

SRMKII

Google Phase II - Core and Shell

SEPA - Lighting Review Response
August 26, 2013



View of North Facade, from 7th.

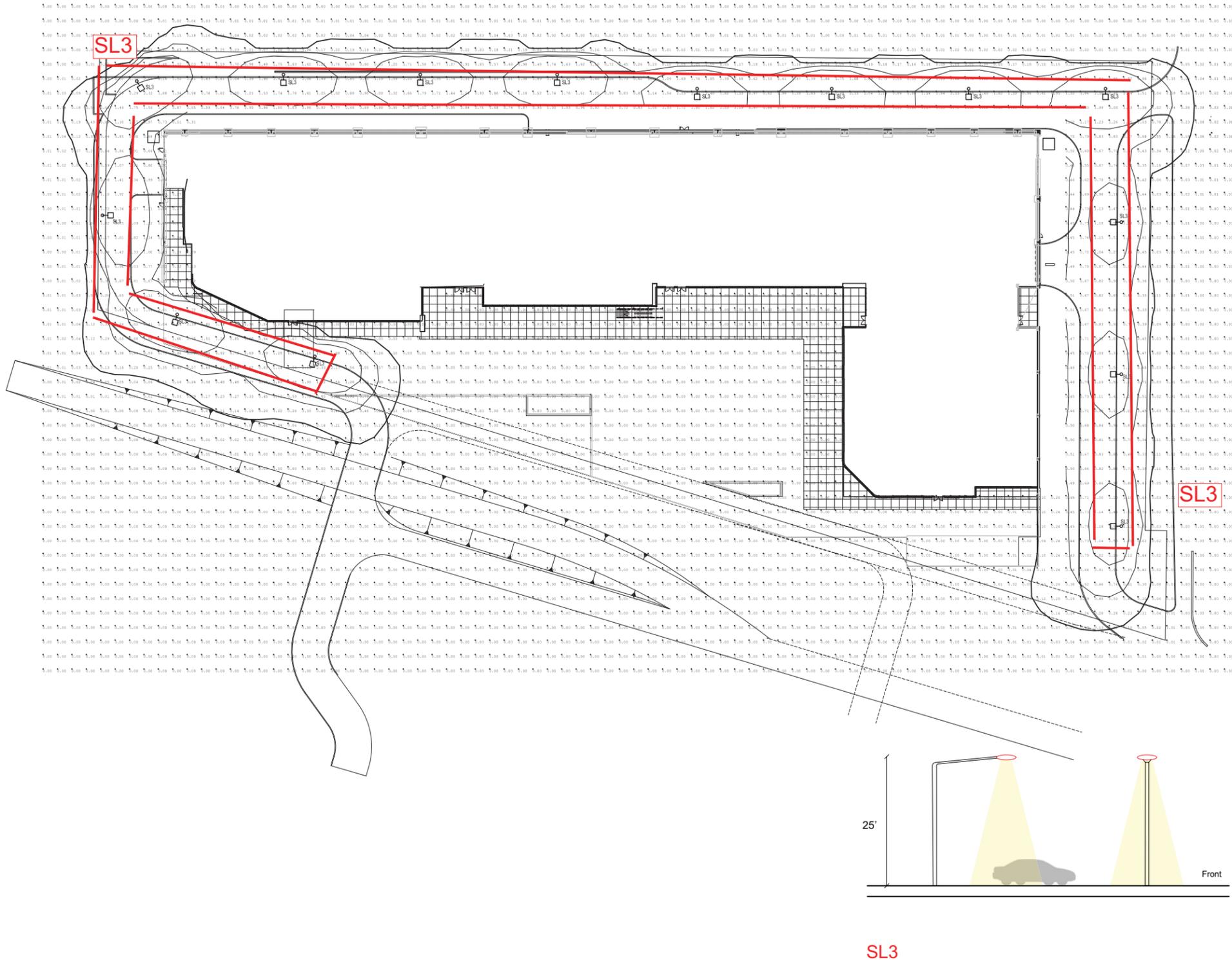


View of NW Building Corner, from 7th.

ELECTRICAL SITE PHOTOMETRICS
SRMKII DEVELOPMENT
PACE SITE

E0.2
TP-17144-00
08.02.13

KEY PLAN



KEY NOTES

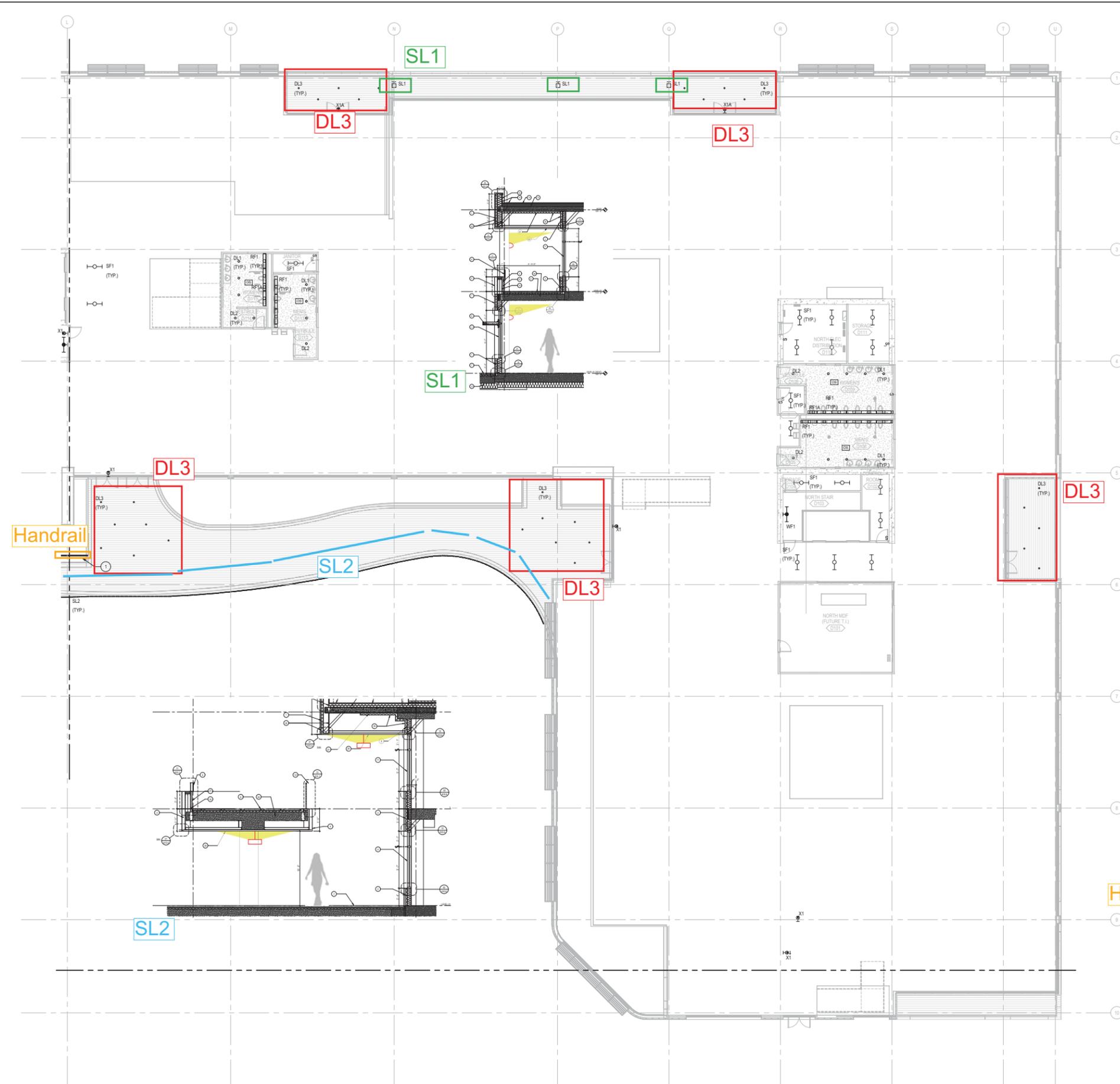
- 1 PROVIDE ILLUMINATED HANDRAIL, IO LIGHTING LUXRAL MID OUTPUT 4000K OR EQUAL. COORDINATE WITH ARCHITECTURAL FOR RAILING DETAILS.

BID DOCUMENTS

FIRST FLOOR LIGHTING PLAN - BUILDING D
SRMKII DEVELOPMENT
PACE SITE

E1.1D
7/17/14-00
08.02.13
P/MS

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Engineering
Planning Interiors
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Handrail

SL2

SL2

SL1

SL1

DL3

DL3

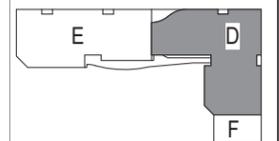
DL3

DL3

DL3

Handrail

KEY PLAN



FIRST FLOOR LIGHTING PLAN - BUILDING D
SCALE: 3/32" = 1'-0"
NORTH

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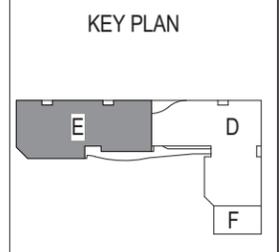
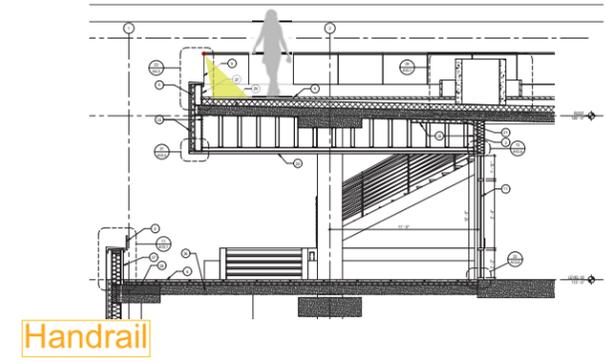
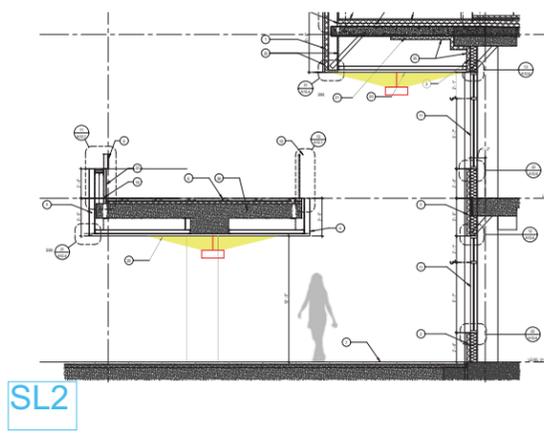
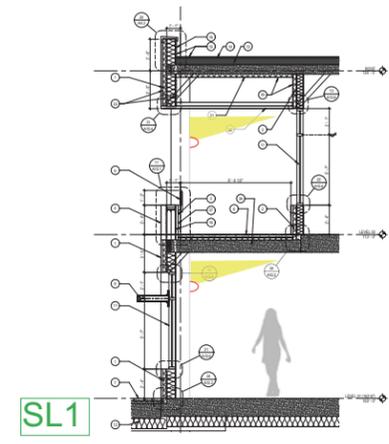
KEY NOTES

- 1. PROVIDE ILLUMINATED HANDRAIL JO LIGHTING LUMENAL MID OUTPUT 4000K OR EQUAL. COORDINATE WITH ARCHITECTURAL FOR RAILING DETAILS.

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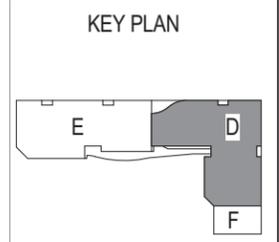
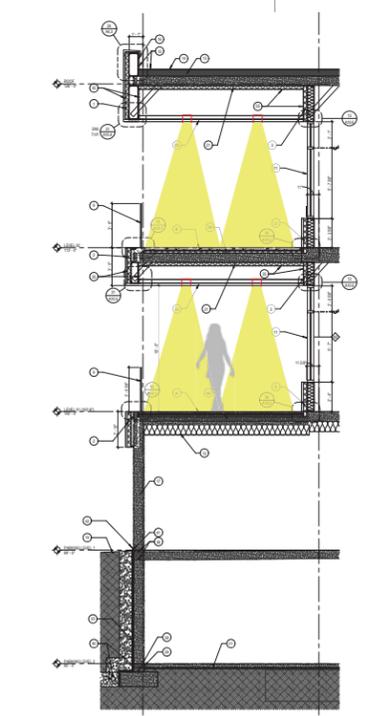
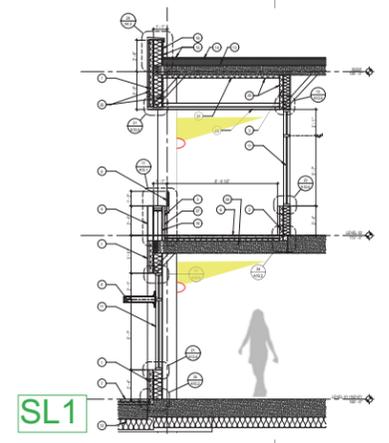
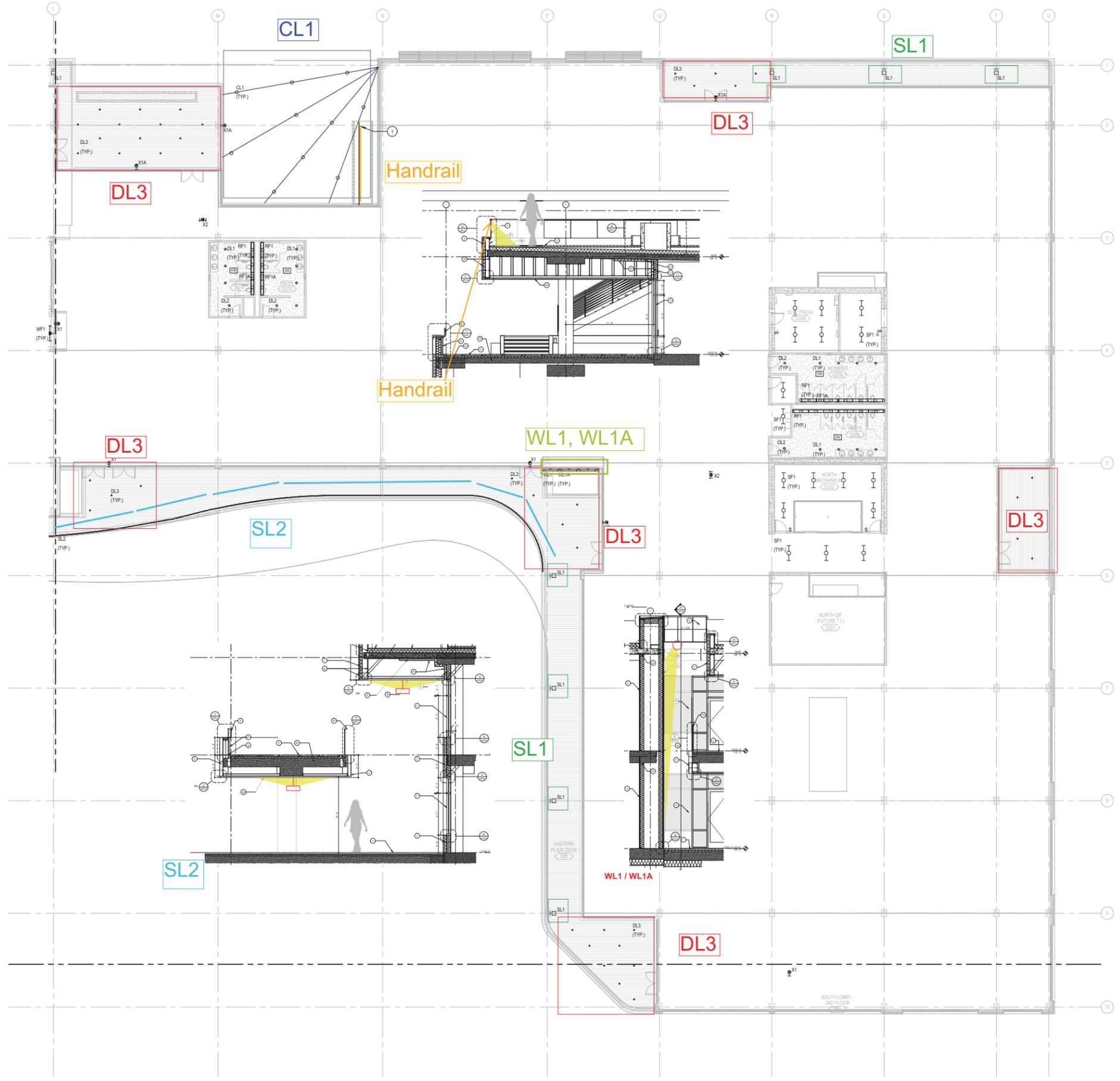
FIRST FLOOR LIGHTING PLAN - BUILDING E
SCALE: 3/32" = 1'-0"
NORTH



FIRST FLOOR LIGHTING PLAN - BUILDING E
SRMKII DEVELOPMENT
PACE SITE

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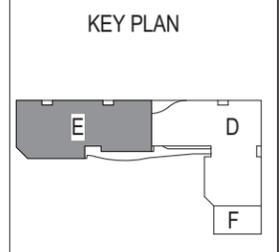


SECOND FLOOR LIGHTING PLAN - BUILDING D
 SRMKII DEVELOPMENT
 PACE SITE

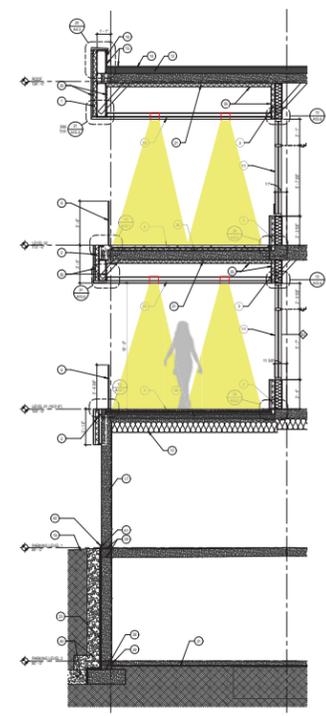
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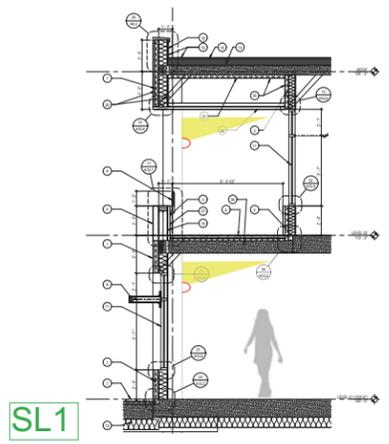
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 SCALE: 3/32" = 1'-0"



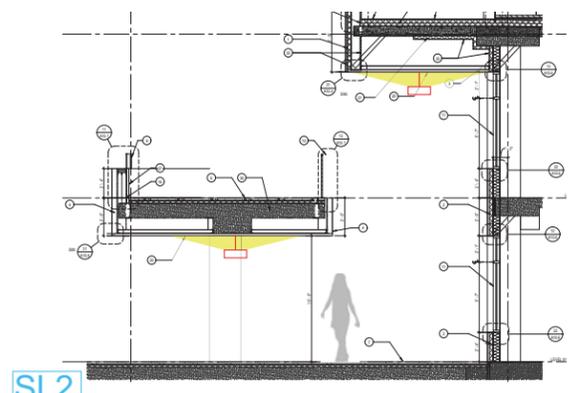
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 SCALE: 3/32" = 1'-0"



DL3



SL1

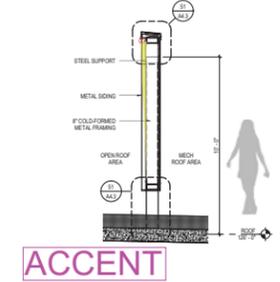
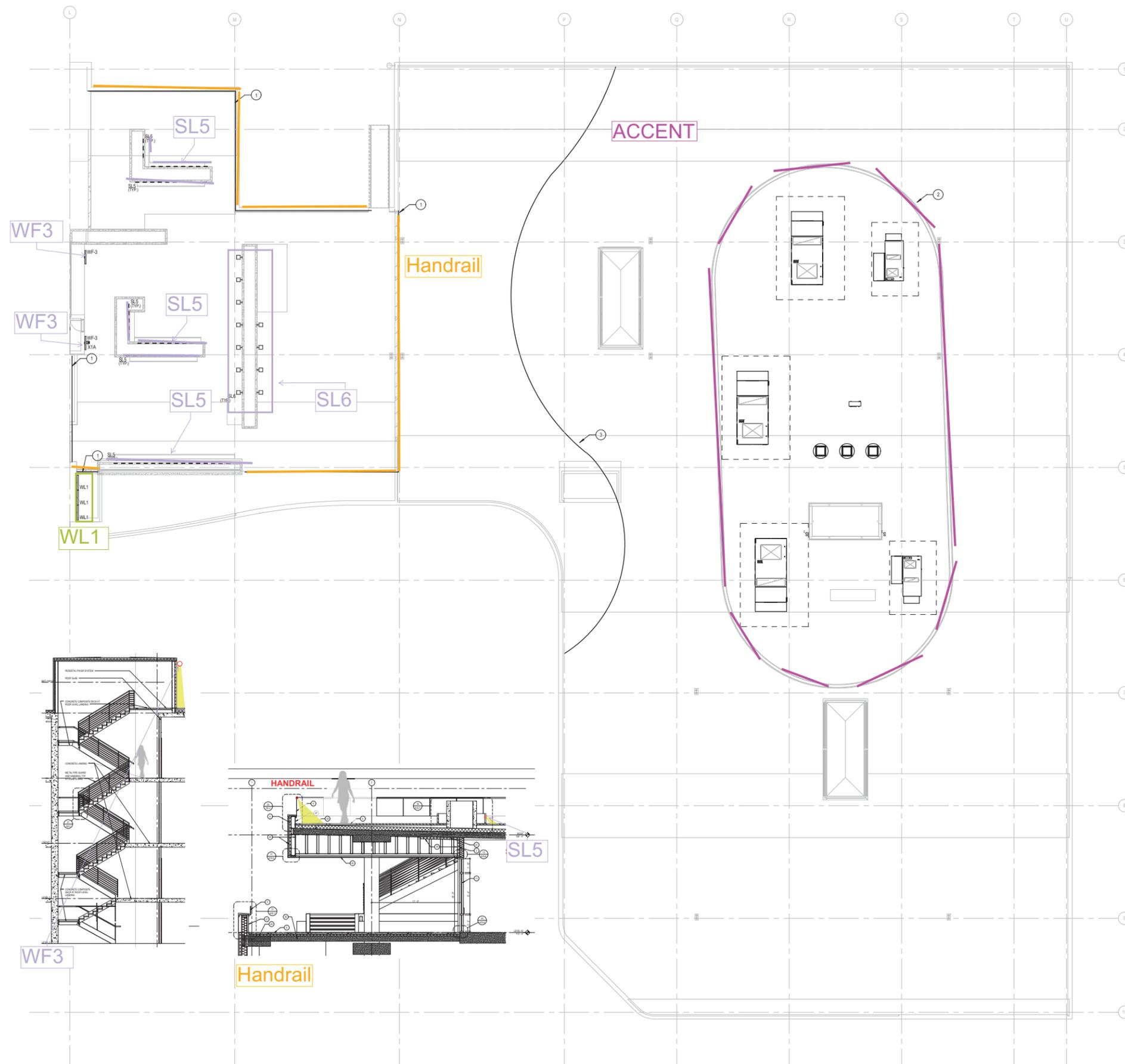


SL2

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- 1 PROVIDE ILLUMINATED HANDRAIL. 10 LIGHTING LUXRAIL MID OUTPUT 4000K OR EQUAL. COORDINATE WITH ARCHITECTURAL FOR RAILING DETAILS.
- 2 PROVIDE WHITE LED TAPE LIGHT, MODALIGHT AQUAFLEX-4000K OR EQUAL WITHIN TOP COVE OF SCREEN. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.
- 3 PROVIDE WHITE LED TAPE LIGHT, MODALIGHT AQUAFLEX-4000K OR EQUAL WITHIN EDGE OF GREEN AREA. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.

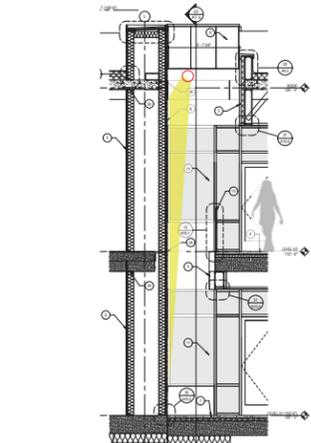
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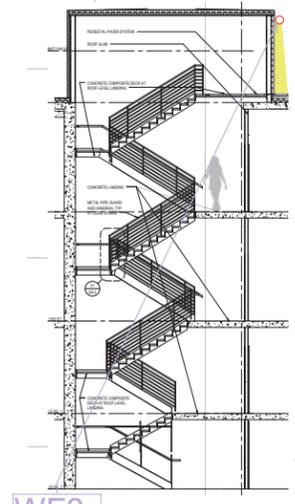
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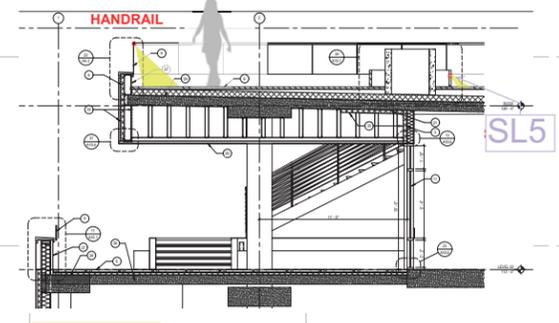
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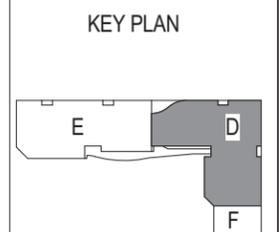
WL1/WL1A



WF3



Handrail



KEY PLAN

ROOF LIGHTING PLAN - AREA A
SCALE: 3/32" = 1'-0"

ROOF LIGHTING PLAN - BUILDING D
SRMKII DEVELOPMENT
PACE SITE

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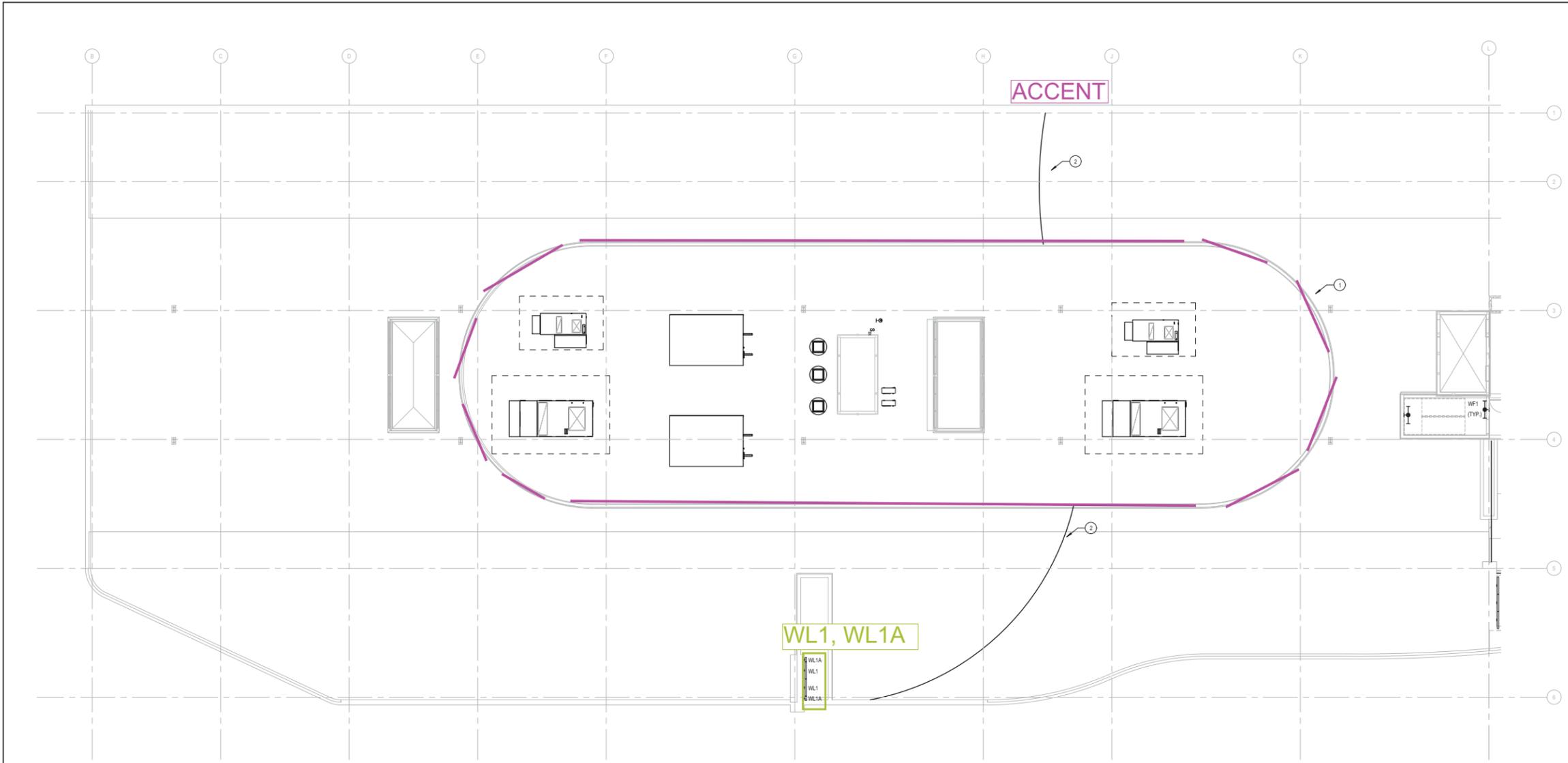
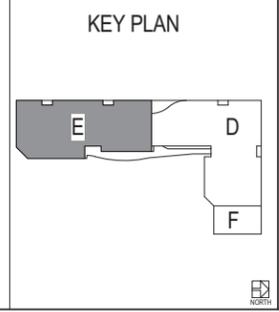
- 1 PROVIDE WHITE LED TAPE LIGHT, MODALIGHT AQUAPLEX-4000K OR EQUAL WITHIN TOP COVE OF SCREEN. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.
- 2 PROVIDE WHITE LED TAPE LIGHT, MODALIGHT AQUAPLEX-4000K OR EQUAL WITHIN EDGE OF GREEN SPACE. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.

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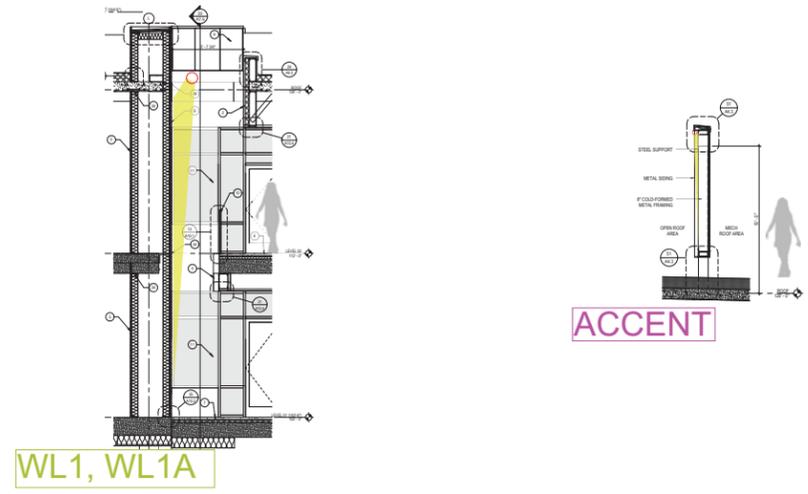
ROOF LIGHTING PLAN - BUILDING E
SRMKII DEVELOPMENT
PACE SITE

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ROOF LIGHTING PLAN - AREA B
SCALE: 3/32" = 1'-0"
NORTH



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Lighting Fixture Schedule										
Type Mark	Manufacturer	Model	Lamp	Lamp Quantity	Electrical Data	Ballast(s)	Type Comments	Mounting	Description	Count
CL1	LUMINIS	W1222L-L1W30-277-K3-CAT	3000K LEDS		277 V/1-28 VA	INTEGRAL DRIVER			CATATENRY SUSPENDED EXTERIOR LED CYLINDER WITH DECORATIVE TRIM RINGS. 1600 LUMENS. TITANIUM GRAY FINISH.	46
DL1	LITHONIA	DOM6-LED-900L-40K-277-DO6A-TRW	4000K LED	0	277 V/1-16 VA	INTEGRAL DRIVER	DOWNLIGHT	RECESSED	6" LED DOWNLIGHT, OPEN CLEAR/DIFFUSE REFLECTOR, 800 LUMENS, UL DAMP LOCATION LISTED.	45
DL2	LITHONIA	DOM6-LED-900L-40K-277-DO6A-TRW	4000K LED	0	277 V/1-25 VA	INTEGRAL DRIVER	DOWNLIGHT	RECESSED	SIMILAR TO TYPE DL1 EXCEPT WITH 900 LUMEN OUTPUT.	15
DL3	LIGHTOLIER	C2L04DL30K47RUZ10V	3000K LED	0	277 V/1-11 VA	INTEGRAL DRIVER	DOWNLIGHT	RECESSED	2" LED DOWNLIGHT, OPEN ALUMINUM REFLECTOR, 47 DEGREE SPREAD, 331 LUMENS, UL DAMP LOCATION LISTED.	111
DL4	KIRLIN	LRR-04017-18-45-46-DF-41K	4100K LED	0	277 V/1-20 VA	INTEGRAL DRIVER	DOWNLIGHT	RECESSED	LED 4" DOWNLIGHT, 1250 LUMENS, DEAD FRONT, 41K, UL WET LISTED.	5
GL1	LITHONIA MCGRAW-EDISON CREE LIGHTING HUBBELL	DSXPG-LED-2-10B530/40K-T5W-MVOLT-SRM-PIR360SS-DNAXD VPL-B02-E1-LED-SQ-AP-OS PKG-304-5M-DM-04-D-UL-SV-350-ML SCP-18L-U-4K-5M-GR-SC30	4000K LED	0	277 V/1-37 VA	INTEGRAL DRIVER	PARKING GARAGE	SURFACE	LED PARKING GARAGE FIXTURE WITH ALUMINUM HOUSING, 3255 LUMENS, TYPE 5 WIDE DISTRIBUTION, AND INTEGRAL MOTION SENSOR. UL WET LOCATION LISTED.	268
GL2	LITHONIA MCGRAW-EDISON CREE LIGHTING HUBBELL	DSXPG-LED-2-10B530/40K-T5E-MVOLT-SRM-PIR360SS-DNAXD VPL-B02-E1-LED-CQ-AP-OS PKG-304-5S-DM-04-D-UL-SV-350-ML SCP-36L-U-4K-5M-GR-SC30	4000K LED	0	277 V/1-37 VA	INTEGRAL DRIVER	PARKING	SURFACE	LED PARKING GARAGE FIXTURE WITH ALUMINUM HOUSING, 3255 LUMENS, TYPE 5 ENTRANCE DISTRIBUTION, AND INTEGRAL MOTION SENSOR. UL WET LOCATION LISTED.	4
PF1	COOPER	S2ZDP-1-L40-D-SC-U-ED	4000K LED	0	277 V/1-33 VA	INTEGRAL DRIVER	LINEAR	PENDANT	4' LINEAR DIRECT LED FIXTURE, 2100 LUMENS, ALUMINUM HOUSING, UL LISTED.	74
RF1	PRUDENTIAL	P59-1T8-4-W-277-X3B-10THD	F32T8/ADV835	1	120 V/1-25 VA	<10% THD PROGRAM START	COVE	RECESSED	ONE LAMP PREFAB COVE INDIRECT WALL WASH SYSTEM GIVING FLOATING CEILING EFFECT. NO LOUVERS. PROVIDE FILLER KIT AS NEEDED TO COMPLETE COVE. UL LISTED.	56
RF1A	PRUDENTIAL	P59-1T8-2-W-277-X3B-10THD	F17T8/835	0	120 V/1-15 VA		COVE	RECESSED	SAME AS TYPE RF1 EXCEPT 2' IN LENGTH 20 ga. STEEL CONSTRUCTION. UL LISTED.	7
SF1	PRUDENTIAL	PT8W-STD-2T8-04-YGW-SC-UNV-10THD	F28T5/835	2	277 V/1-60 VA	<10% THD PROGRAM START	STRIP	SUSPENDED	TWO LAMP STRIP FIXTURE, STEEL HOUSING, UL LISTED.	153
SF2	METALUX	VT2-254T5-DR-UNV-EBT-WL	F32T8/835	2	277 V/1-58 VA	<10% THD PROGRAM START	STRIP	SURFACE	TWO LAMP INDUSTRIAL VAPORTITE STRIP FIXTURE. FIBERGLASS HOUSING. GASKETED PRISMATIC POLYCARBONATE LENS. UL WET LISTED.	4
SF3	LITHONIA	MS8-332-WD-277-GE810PS-1/3	F32T8/835	3	277 V/1-105 VA	<10% THD PROGRAM START	STRIP	SURFACE	THREE LAMP INDUSTRIAL STRIP FIXTURE. FIBERGLASS HOUSING. PRISMATIC POLYCARBONATE LENS. UL LISTED.	10
SL1	COOPER LIGHTING	303-W1-LEDB1-4000-UNV-T2	4000K LED	0	277 V/1-9 VA	INTEGRAL DRIVER	SCONCE	WALL	LED WALL SCONCE UPLIGHT FIXTURE, 607 LUMENS, UL WET LOCATION LISTED.	26
SL2	COLOR KINETICS	523-000079-40	4100K LED	0	277 V/1-10 VA	INTEGRAL DRIVER	COVE	SURFACE	1' LINEAR COVE, 90"x90" BEAM SPREAD, UL DAMP LOCATION LISTED.	517
SL3	PHILIPS GARDCO	P32-A1-1-BLC-110LA-NW-UNIV-NP	4000K LED	0	277 V/1-110 VA	INTEGRAL DRIVER	AREA	POLE	POLE TOP LED FIXTURE WITH BACK LIGHT CONTROL DISTRIBUTION ON 25' ROUND POLE. OUTPUT OF 9,000 LUMENS. UL LISTED.	15
SL5	COLOR KINETICS	523-000082-01	4000K LED	0	277 V/1-5 VA	INTEGRAL DRIVER	BENCH	SURFACE	1' LINEAR LED FIXTURE, 90"x90" BEAM SPREAD, 246 LUMEN OUTPUT, UL DAMP LOCATION LISTED.	60
SL6	PRESCOLITE	SLLED2-50K-Z-277	5000K LED	0	277 V/1-13 VA	INTEGRAL DRIVER	STEP LIGHT	WALL	LOW PROFILE LED STEP LIGHT, ALUMINUM FACEPLATE, 95 LUMENS, UL WET LOCATION LISTED.	11
WF1	PRUDENTIAL ARCH LIGHTING WORKS AXIS	S1-LED4-04-WA-TMW-277-SUR-X1-OCO WLPV4-THP7-LED-UNV-EXT-WH-OS PWWLED-B1-750-35-S-4-W-UNV-D-1-OS	4000K LED	0	277 V/1-35 VA	INTEGRAL DRIVER	LINEAR	WALL	LINEAR LED WALL MOUNT, ACRYLIC LENS, INTEGRAL OCCUPANCY SENSOR, UL LISTED.	24
WF2	PRUDENTIAL ARCH LIGHTING WORKS AXIS	S1-LED4-04-WA-TMW-277-SUR-X1 WLPV4-THP7-LED-UNV-EXT-WH PWWLED-B1-750-35-S-4-W-UNV-D-1-OS	F32T8	0	277 V/1-65 VA				SAME AS WF1, WITHOUT INTEGRAL OCCUPANCY SENSOR.	8
WF3	LUMINAIRE LIGHTING	AEL-36-32WLED-277-DP-SVH	3500K LED	0	277 V/1-16 VA	INTEGRAL DRIVER	WALL PACK	WALL	EXTERIOR LED WALL FIXTURE, ALUMINUM HOUSING, POLYCARBONATE LENS, FULL CUTOFF, 1100 LUMENS, UL WET LOCATION LISTED.	2
WL1	ECOSENSE LIGHTING MASKING PLATE	11LC-48-40-277-6 11-A-MP-3-48	4000K LEDS		277 V/1-68 VA		EXTERIOR WALL		LED WALL GRAZER, 17 WATTS AND 985 LUMENS PER FOOT, 6 DEGREE OPTICS IP66 RATED. PROVIDE MASKING PLATE. UL LISTED WET LOCATION.	8
WL1A	ECOSENSE LIGHTING MASKING PLATE	11LC-12-40-277-6 11-A-MP-3-12	4000K LEDS		277 V/1-17 VA		EXTERIOR WALL		SAME AS TYPE WL1 EXCEPT 1' IN LENGTH	5
X1	LITHONIA	LMSW3G120/277	LED		277 V/1-5 VA	AC ONLY	EXIT	UNIVERSAL	WHITE THERMOPLASTIC EXIT SIGN WITH GREEN LETTERS. RECONFIGURABLE CHEVRONS. SINGLE OR DOUBLE FACE. UL LISTED DAMP LOCATION.	28

Features

Dimmable
Flicker-Free
In-line Connection
Long Life
Instant On
RoHS Compliant
Lead Free
Mercury Free
No UV

ECOSENSE®

EcoSense Lighting Inc.
80 Broad Street
5th Floor
New York, NY 10004

www.ecosenselighting.com

Phone 212-228-8118
Fax 212-228-9113
Toll Free 855.632.6736
855.6.ECOSEN

(V. 12.2-2011)

EcoSpec®

Linear HP EXT Wall Wash

EcoSense® EcoSpec® Linear HP EXT Wall Wash is an ultra-bright exterior linear white light fixture. Brighter than fluorescent tubes, these flicker-free dimmable fixtures offer an earth-friendly, mercury free cove solution.

Leveraging years of lighting experience, this robust aluminum frame fixture features powerful, energy efficient LEDs and precision constant current circuits for long-life applications.

With smart power technology, EcoSpec® Linear HP EXT Wall Wash connects directly to AC power; simplifying installation and minimizing costs. These long-life fixtures quickly pay for themselves in energy savings and maintenance costs, providing substantial savings over the 50,000 hour life of the lamp.



Specifications

Color Temperature	Lumen Output (6° x 6°)
2700K	736 lm/LF : 1472 (2') / 2208 (3') / 2944 (4')
3000K	889 lm/LF : 1778 (2') / 2667 (3') / 3556 (4')
4000K	985 lm/LF : 1970 (2') / 2955 (3') / 3940 (4')
Color Rendering Index	80
Rated Life	50,000 hours
Beam Angle	6° x 6° / 10° x 60° / 17° x 35° / 30° x 60°
Power Consumption (Max)	120VAC – 17W (1ft) / 34W (2ft) / 51W (3ft) / 68W (4ft) 220VAC – 17W (1ft) / 34W (2ft) / 51W (3ft) / 68W (4ft)
Efficacy (lm/W)	120VAC – 43.2 @ 2700K / 52.2 @ 3000K / 57.9 @ 4000K 220VAC – 43.2 @ 2700K / 52.2 @ 3000K / 57.9 @ 4000K
Maximum Fixture Run Length	40' (15m) @120VAC / 90' (25m) @220VAC
Operating Temperature	-4°F to 107°F (-20°C to 41°C)
Operating Voltage	100-120VAC, 220-240VAC, 50-60Hz
Dimming	ELV type, trailing edge dimmers
Housing	Aluminum; Clear Polycarbonate Lens
Fixture Connectors	Integral male / female 3-pin connectors
Fixture Rating	CE Certified - IP66 UL Certified for Wet Locations
Warranty	5 Years
Weight	1.1kg (1ft) / 2.3kg (2ft) / 3.5kg (3ft) / 4.7kg (4ft)
Dimensions	W 2.24" x H 2.43" x L 12"/24"/36"/48" (56,9 mm x 61,8 mm x 305mm/609 mm/914 mm/1,219 mm)
Certifications	  

Restriction of Hazardous Substances Directive (RoHS) implements EU Directive 2002/95 which bans placing electrical and hazardous equipment that contains more than agreed levels of hazardous substances on the EU market. For a list of these substances visit www.rohs.gov.uk.

www.ecosenselighting.com

DATE:	TYPE:
PROJECT:	WL-1/WL-1A
FIRM :	

EcoSpec[®]

Linear HP EXT Wall Wash

DATE:	TYPE:
PROJECT:	WL-1/WL-1A
FIRM :	

Ordering Information

Choose the option that best suits your needs and write its corresponding code on the appropriate line to form the product code.

MODEL	LENGTH	COLOR	VOLTAGE	OPTIC
11LC	12 - 1'-0"	27 - 2700K	120 - 100-120VAC	6 - 6° x 6°
	24 - 2'-0"	30 - 3000K	220 - 220-240VAC	10 - 10° x 60°
	36 - 3'-0"	40 - 4000K		17 - 17° x 35°
	48 - 4'-0"			30 - 30° x 60°

Order mounting and wiring accessories as separate catalogue numbers from the **Accessories** section below.

EXAMPLE: 11LC-24-30-120-6

Accessories

Wiring

Leader Cable 10'-0" (UL)*	EXT-A-CBL-120-10	Leader Cable 10'-0" (CE)*	EXT-A-CBL-220-10
Jumper Cable 1'-0" (UL)	EXT-A-JMP-120-1	Jumper Cable 1'-0" (CE)	EXT-A-JMP-220-1
Jumper Cable 5'-0" (UL)	EXT-A-JMP-120-5	Jumper Cable 5'-0" (CE)	EXT-A-JMP-220-5

[* One (1) terminator is included standard with each Leader Cable]

Mounting

Flat Mounting Plate	10-A-MNT-FLAT (Included with each product length.)
Adjustable Hinge Bracket	11-A-MNT-ADJ
Safety Bracket	11-A-MNT-SAFT

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 Specifications subject to change without notice.
 Visit www.ecosenselighting.com for the most current specifications.
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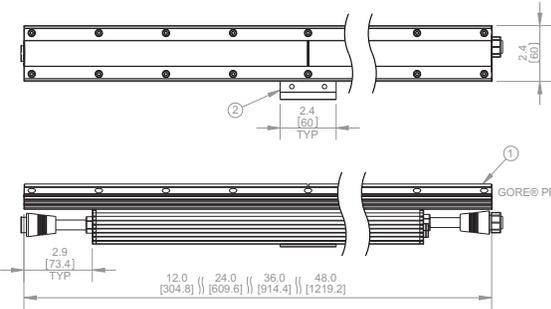
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ECOSENSE[®]

DATE:	TYPE:
PROJECT:	WL-1/WL-1A
FIRM :	

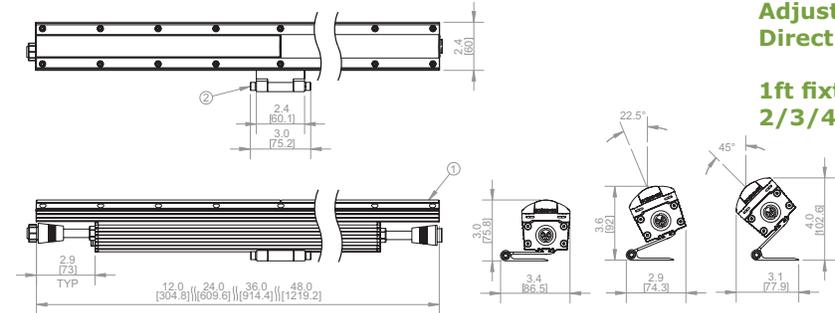
EcoSpec® Linear HP EXT Wall Wash

Dimension and Mounting For complete dimensional submittal drawings and full scale CAD drawings, please visit ecosenselighting.com.



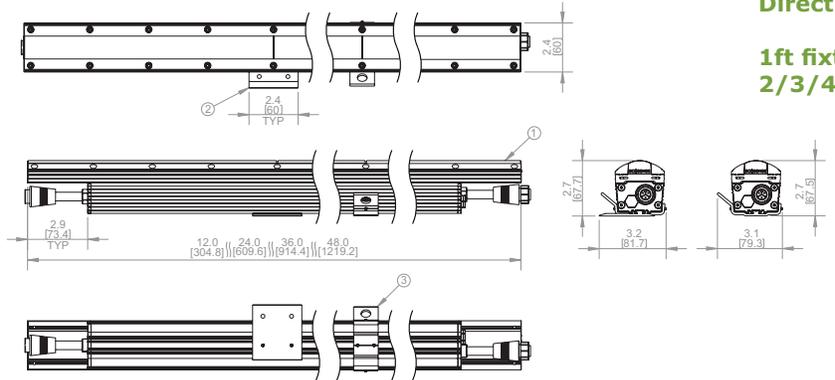
**Flat Mounting Plate –
Direct Mount: 10-A-MNT-FLAT**

**1ft fixture = 1 Bracket
2/3/4ft fixture = 2 Brackets**



**Adjustable Bracket -
Direct Mount 11-A-MNT-ADJ**

**1ft fixture = 1 Bracket
2/3/4ft fixture = 2 Brackets**



**Safety Bracket -
Direct Mount 11-A-MNT-SAFT**

**1ft fixture = 1 Bracket
2/3/4ft fixture = 2 Brackets**

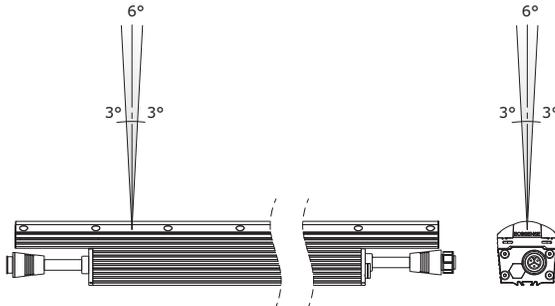
DIMENSION IN
INCHES / [MM]

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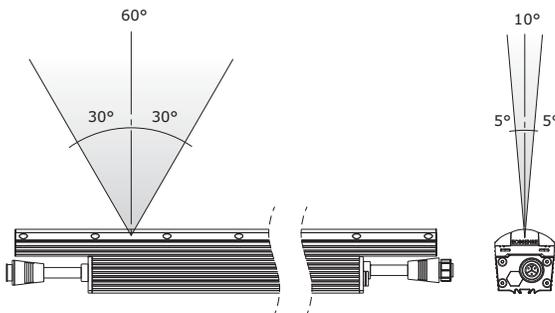
DATE:	TYPE:
PROJECT:	WL-1/WL-1A
FIRM :	

EcoSpec[®] Linear HP EXT Wall Wash

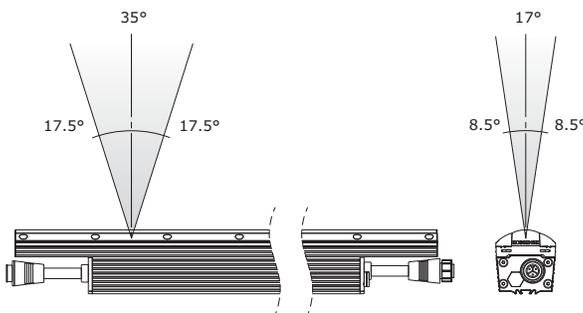
Fixture Distribution



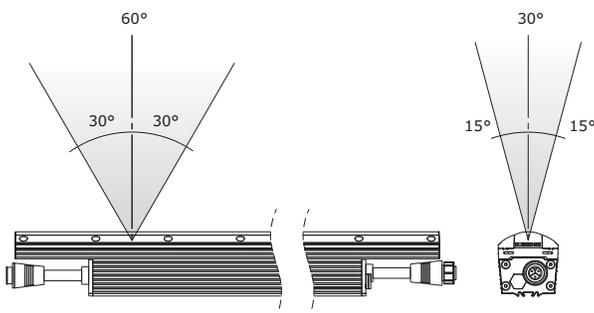
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6° x 6°



11LC-XX-XX-XXX-10
10° x 60°



11LC-XX-XX-XXX-17
17° x 35°



11LC-XX-XX-XXX-30
30° x 60°

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(V.12.2-2011)

ECOSENSE[®]

Architectural Egress

AEL

Full Cut-off
Vandal Resistant LED

Project Information

Fixture Type	WF3	Date
Job Name		
Approved By		
Catalog Number	AEL - 12" - 10W LED - 120 - DP - BKH -	

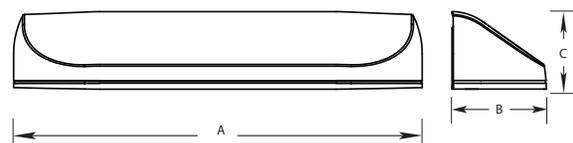


SPECIFICATIONS

Description	The Architectural Egress Luminaire combines a unique, patented design shaped with high performance, full cut-off optics to achieve completely unobtrusive illumination of a space or path of egress. When mounted over a doorway, the fixture is perceived as an element of the building structure and, additionally, provides water protection in the form of a drip cap over the doorway. Multiple lengths are available to match a given door opening and our unique quick mount system facilitates installation and maintenance.
Housing	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Wall Mount	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.
Lens Frame	Marine grade heat treated extruded aluminum, clear anodized. Secured to fixture via integral concealed hinge and (3) captive stainless steel TORX® head screws.
Lens	UV stabilized diffused extruded polycarbonate.
End Caps	Die-cast marine grade aluminum continuously welded to housing. All welds ground smooth.
Reflector	Electrolytically brightened anodized aluminum PVD coated and absolutely color-free of iridescence. Shaped to provide full cutoff, LED point dispersion and maximum efficiency.
Drivers	Constant current drivers at 350mA. High output version utilizes 700mA.
LED	Cree XPG @ 3500K and 80.2 CRI. L ₇₀ projected life of 75,000 hours at 50°C. Tested in accordance with LM-80.
Gaskets	Closed cell self-adhesive neoprene to provide watertight seal between fixture and wall and between fixture and lens frame.
UL Listing	U.L., C.U.L., Wet standard.
Warranty	Five year warranty on LED boards against operational defects. Lifetime warranty on any fixture damaged due to vandalism.

DIMENSIONAL DATA

	A	B	C
AEL12	20.79	5.40	3.60
AEL24	32.04	5.40	3.60
AEL36	43.29	5.40	3.60
AEL48	54.75	5.40	3.60
AEL72	78.75	5.40	3.60



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P. 732.549.0056 F. 732.549.9737



Luminaire Lighting Corporation products are manufactured in the USA with components purchased from USA suppliers, and meet the Buy American requirements under the ARRA.



www.luminairelighting.com

Rev: 05/13

Architectural Egress

AEL

Full Cut-off
Vandal Resistant LED

Fixture Type

WF3

ORDERING INFORMATION

SERIES	LENGTH	LED	VOLTS	LENS	COLORS	OPTIONS	TX/SD (REQUIRED)
AEL	12"	10W LED	120	DP	BKH		

LENGTH	LED	VOLTS	LENS	COLORS	OPTIONS
12"	12"	120	DP	BKH - Black	PC
24"	10W LED	277	Diffused Polycarbonate	Hammertone	2B
36"	24"			BZH - Bronze	GLR
48"	11W LED			Hammertone	SWL
72"	22W LED			SVH - Silver	EMB20R
	36"			Hammertone	EMB125R
	16W LED			WOP - White Orange	OCC
	32W LED			Peel	ST/SC
	48"			PCP - Prime coat, paintable	
	21W LED			CUST - Custom color, Consult factory	
	42W LED				
	72"				
	32W LED				
	64W LED				

LIGHT OUTPUT (LUMENS)		
	350mA	700mA
AEL12	263	479
AEL24	697	1255
AEL36	1045	1881
AEL48	1393	2507
AEL72	2090	3762

OPTIONS

PC	Photoelectric switch.								
2B	(2) LED drivers for independent LED board operation. N/A with the OCC option.								
GLR	Fuse and fuse holder.								
SWL	Programmable bi-level switching, 700mA high level. Available for AEL12 only. Low level factory preset (please specify):								
	<table border="1"> <tr> <td>500mA</td> <td>9 watts</td> </tr> <tr> <td>350mA</td> <td>6 watts</td> </tr> <tr> <td>250mA</td> <td>5 watts</td> </tr> <tr> <td>125mA</td> <td>3 watts</td> </tr> </table>	500mA	9 watts	350mA	6 watts	250mA	5 watts	125mA	3 watts
500mA	9 watts								
350mA	6 watts								
250mA	5 watts								
125mA	3 watts								
EMB20R	Remote mounted micro inverter that will operate a 25W maximum load for 90 minutes. 0°C (32°F) to 45°C (113°F).								
EMB125R	Stand-alone inverter that will operate a 125W maximum load for 90 minutes. Select ceiling grid, recessed wall or surface mount. 20°C (68°F) to 30°C (86°F).								
OCC	Occupancy sensor. Maximum coverage of 10' radius from 8' height.								
ST/SC	Slotted screws instead of TORX® head.								
TX/SD	TORX® head bit.								

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Architectural Egress

AEL

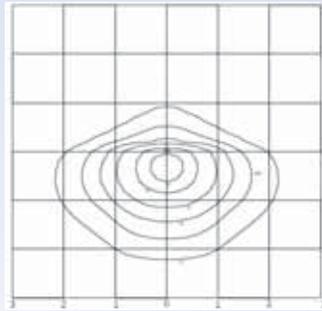
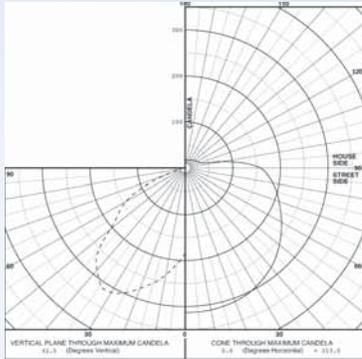
Full Cut-off
Vandal Resistant LED

Fixture Type

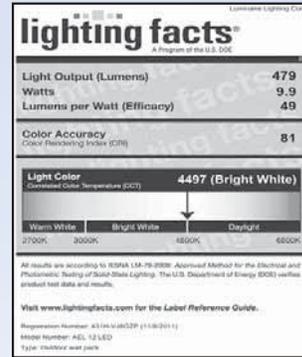
WF3

PHOTOMETRIC DATA

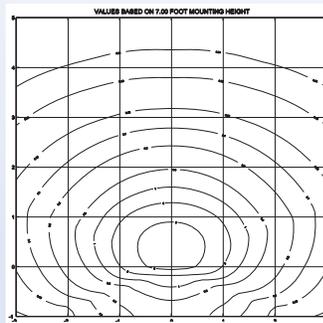
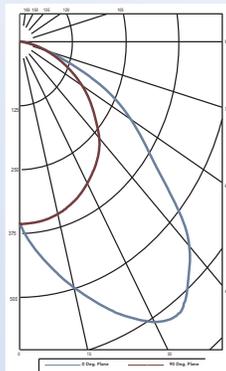
MODEL AEL 12 LED IES FILE: ITL69924
 Lamp: 4 White LEDs. Luminaire Efficacy: 48.6 Lumens per Watt
 BUG Rating: B0 U0 G0
 Testing was performed in accordance with IES LM-79-08



Mounting Height	5'	6'	7'	8'	9'
Multiplying Factor	2.56	1.78	1.31	1.00	0.7



MODEL AEL36 CL IES FILE: LTL22599
 Lamp: 12 White LEDs. Luminaire Efficacy: 65 Lumens per Watt
 Testing was performed in accordance with IES LM-79-08



Mounting Height	5'	6'	7'	8'
Multiplying Factor	1.78	1.31	1.00	0.7



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Architectural Egress

AEL

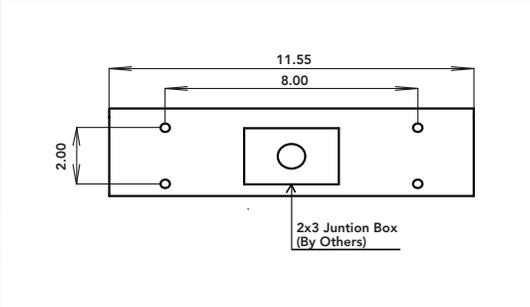
Full Cut-off
Vandal Resistant LED

Fixture Type

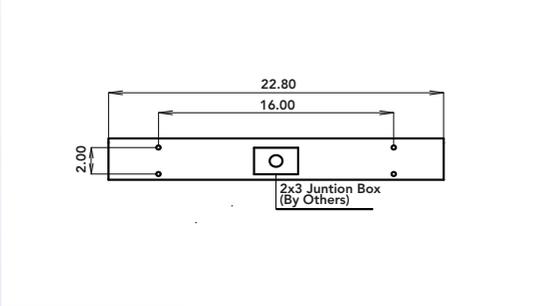
WF3

WALL MOUNTING BRACKET DETAIL

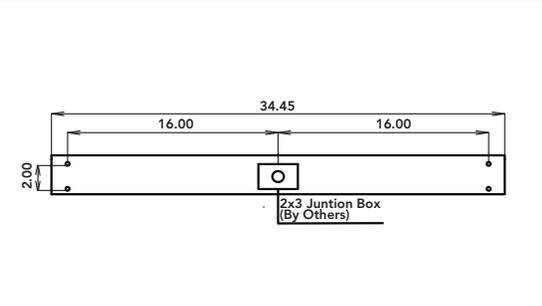
AEL 12



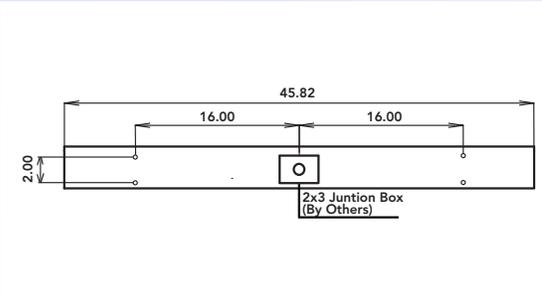
AEL24



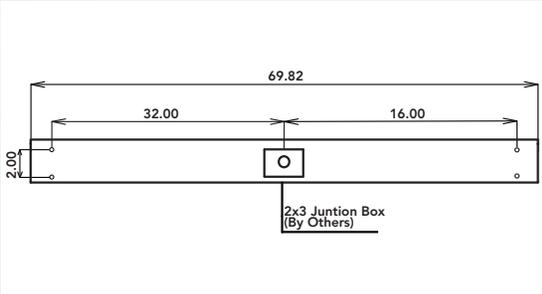
AEL36



AEL48



AEL72



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www.luminairelighting.com



LED Step Lights

SLED1
SLED2
SLED3

Wet Location and IC Rated
120V or 277V

DATE: _____ TYPE: **SL5**

FIRM NAME: _____

PROJECT: _____



APPLICATIONS:

The LED step light is ideal for a wide variety of interior and exterior applications including commercial, retail and residential applications. Fixture should be installed in applications where ambient temperatures do not exceed 50° C (122°F). Installations in applications that exceed this temperature will result in a reduction of lamp life.

FIXTURE:

SLED1 – With a modern low profile die cast aluminum face plate, this high output, 10watt LED step light is the ultimate in the LiteStep collection. The highly efficient SLED1 offers the smoothest and broadest light distribution pattern. **SLED2** – SLED2 is LiteStep’s premium level and provides a smooth, broad light distribution. Made of modern die cast aluminum, the recessed 10watt LED step light offers energy efficient benefits. Additionally SLED2 is IP45 rated. **SLED3** – Offering adequate levels of light distribution, wattage consumption, and efficiency, SLED3 is the primary level of the LiteStep step lights. SLED3 is the most economically priced LED step light. IP56 rated.

HOUSING:

Die cast aluminum housing with either a durable black baked powder coat or clear anodized finish. 1/2" NPT conduit port located on either side of the housing. Silicone gasket ensures a good seal.

TRIM:

SLED1 and 2 have a die cast aluminum trim and SLED3 has a stamped aluminum trim with a solite lens and a silicone gasket. Available in Black (BL), White (WH), Zet (Z) or Bronze (BZ).

LED LIGHT ENGINE:

Each array consists of either 6 watt or 10 watt LED modules mounted on a fixed aluminum heat sink to ensure optimal optical performance and 50,000 hour life at 70% lumen maintenance. Available in 5000K and 3500K color temperatures.

LED DRIVER:

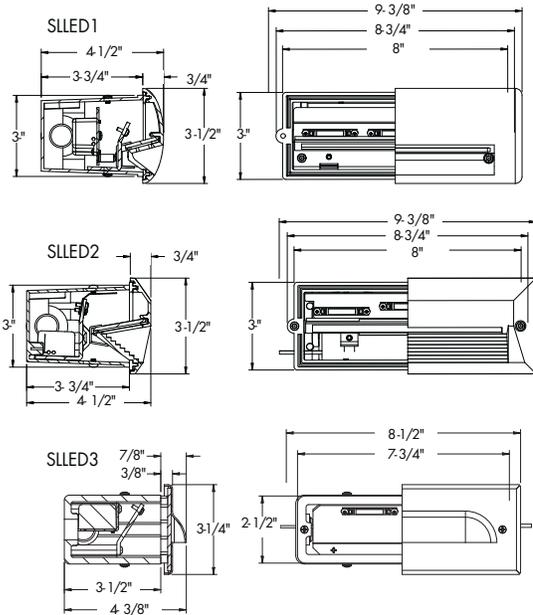
120V or 277V Solid state electronic 350mA constant current FCC class B driver. 50,000 hour minimum anticipated life. Rated for -30°C starting temperature. Driver is accessible through the housing for servicing.

LABELS:

CSA C/US listed. Suitable for wet location and concrete pour. Approved for exterior and interior installations. IC rated. SLED2 is IP45 and SLED3 is IP56 rated.

WARRANTY:

5 year warranty available
Go to www.prescolite.com for full details.



CATALOG NUMBER:

EXAMPLE: SLED135KBL

HOUSING	LED COLOR TEMP	HOUSING FINISH	HOUSING OPTION	HOUSING ACCESSORIES	HOUSING ACCESSORIES
<input type="checkbox"/> SLED1 High output 13watt LED step light	<input type="checkbox"/> 35K 3500 Kelvin <input type="checkbox"/> 50K 5000 Kelvin	<input type="checkbox"/> WH White <input type="checkbox"/> BL Black <input type="checkbox"/> Z Zet <input type="checkbox"/> BZ Bronze	<input type="checkbox"/> Blank 120V <input type="checkbox"/> 277V	<input type="checkbox"/> SLMB Dry wall bar hanger installation kit. <input type="checkbox"/> SLD12CMB Concrete mounting box SLED1 and SLED2 <input type="checkbox"/> SLD3CMB Concrete mounting box SLED3 <input type="checkbox"/> LG15[®] Dual-Lite 100VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG1R[®] Dual-Lite 100VA Recessed Wall Mount LiteGear Emergency Lighting Inverter	<input type="checkbox"/> LG1T[®] Dual-Lite 100VA Recessed Ceiling T-Grid LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG25[®] Dual-Lite 250 VA Surface Wall Mount LiteGear Emergency Lighting Inverter



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.
Web: www.prescolite.com • Tech Support: (888) 777-4832

LS-LED-003

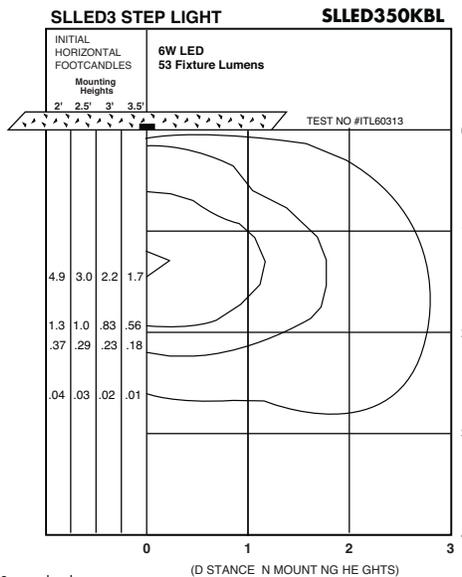
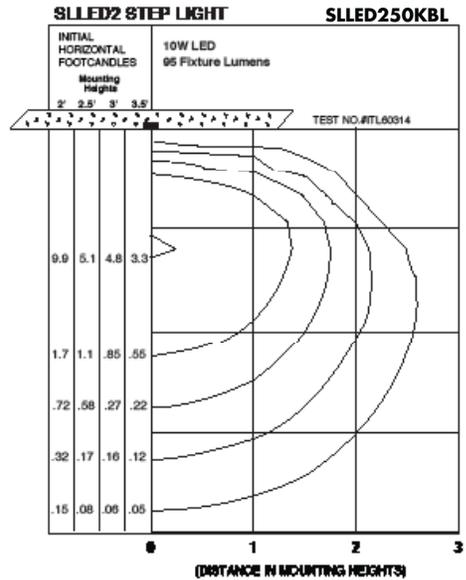
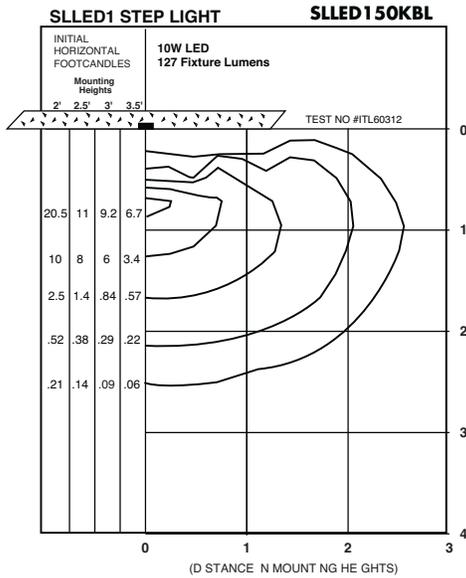
TYPE: SL5

PHOTOMETRIC DATA

LiteStep - LED Step Lights

DRIVER DATA <i>Input Parameter</i>	SLLED1 & SLLED2			SLLED3		
	10W			6W		
	Value	Units	Value	Units	Value	Units
Input Voltage	120	277	VAC	120	277	VAC
System Wattage	12.6	12.6	W	8.7	8	W
Input Current	0.15	.15	A	0.14	0.14	A
Frequency	60	60	HZ	60	60	HZ
Power Factor	0.94	0.94	-	0.94	.94	-
Total Harmonic Distortion	<70%	<70%	-	<70%	<70%	-

FIXTURE LUMEN OUTPUT	
Fixture	Lumen Output
SLLED150K	127 Lumens
SLLED250K	95 Lumens
SLLED350K	53 Lumens



NOTES: Refer to www.prescolite.com for additional photometric tests (IES Files).

1. 5 year warranty requires product registration. Warranty limited to repair and replacement of defective parts of the LED system and does not include labor or installation after first year. See www.prescolite.com for details.
2. Operation in ambient temperatures higher than those specified may shorten life and will void warranty.

Tested in accordance with IESNA LM-79 2008 standards



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 701 Millennium Boulevard • Greenville, SC 29607 U.S.A. • Phone (864) 678-1000
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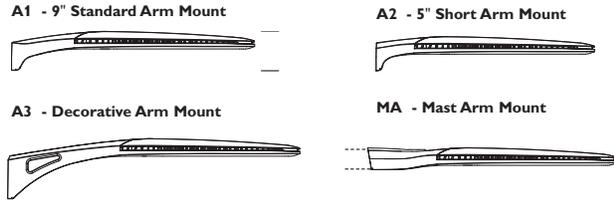
Job: Google Ph II
 Type: SL3
 Notes:



PureForm LED

P32 Area Luminaires

Philips Gardco PureForm luminaires combine LED performance excellence and advanced Gardco LED thermal management technology with a distinct purity of style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing. PureForm is defined by its high performance, sleek low profile design and rugged construction. The die cast aluminum housing mounts directly to a pole or wall, and has a maximum profile of just 3". The advanced LED optical systems provide IES Types II, III, IV and V distributions, as well as a Backlight Control optic. Special LEED corner cutoff optics are also available. All LED wattages utilize high performance Class 1 LED systems. The luminaire features a state of the art integral thermal control system to maximize LED performance and life, and to extend component life. The door frame is die cast aluminum. Luminaires are finished with a fade and abrasion resistant TGIC powdercoat. PureForm luminaires are available in a wide variety of mountings and arms. All PureForm luminaires provide full cutoff performance.



PureForm luminaires are provided standard without a glass lens, for maximized performance. A glass lens is available as an option, resulting in reduced performance.

PREFIX	ARM	MOUNTING	OPTICAL SYSTEM	LED WATTAGE	LED SELECTION	VOLTAGE	FINISH	OPTIONS

Enter the order code into the appropriate box above. Note: Philips Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

(See page 4 and page 5 for details on luminaire configurations.)

P32	32" PureForm Luminaire - Constant Wattage
P32-DCC	32" PureForm Luminaire - Dual Circuit Control
P32-DIM	32" PureForm with 0-10V Dimming
P32-MR50¹	32" PureForm with Motion Response - 50% Low, Pole Mounted Motion Sensor
P32-APD²	32" PureForm with Automatic Profile Dimming
P32-APD-MRO¹	32" PureForm - APD with Motion Response Override, Pole Mounted Motion Sensor

1. MR50 and APD-MRO luminaires require one motion sensor per pole, ordered separately. See **Accessories** on page 2. Motion Response luminaires available 120V or 277V only.
 2. Available 120V through 277V only.

ARM (Omit for Mast Arm Mount luminaires)

Arm Style	Available Mountings
A1 Standard 9" Arm	Direct to Pole Mount and Wall Mount
A2 Short 5" Arm	Direct to Pole Mount and Wall Mount
A3 Decorative Arm	Direct to Pole Mount Only

Note: All Arm Styles shown above mount to a round pole with no adapter. If mounting to a square pole, specify the appropriate Square Pole Adapter option: **SPA1-2** for A1 or A2 arms, **SPA3** for A3 arms. See **Options** on page 2.

MOUNTING

Direct to Pole Mount (Available with A1, A2 or A3 Arms)

1	Single Pole Mount
2	Twin Pole Mount at 180°
2@90	Twin Pole Mount at 90°
3	3-way Pole Mount at 90°
3@120°	3-way Pole Mount at 120°
4	4-way Pole Mount

Mast Arm Mount

MA Mast Arm Mount (Requires 2 3/8" OD Mast Arm)

Wall Mount

(Available with A1 or A2 Arms Only. Not available in P32-MR50, or P32-APD-MRO.)

W	Wall Mount
WS	Wall Mount, Surface Conduit

OPTICAL SYSTEM⁴ Featuring unitized optic lens construction.

Optic Type	Standard Optic Position	Optic Rotated Left ⁵ (90°)	Optic Rotated Right ⁵ (270°)
Type II	2	2-90	2-270
Type III	3	3-90	3-270
Type IV	4	4-90	4-270
Type V Medium	5M		
Type V Wide	5W		
Backlight Control	BLC	BLC-90	BLC-270
LEED Corner Cutoff Optics ⁶		LCL	LCR

4. Luminaire door frame and optic assembly provided standard without glass lens. Specify CLR option for clear glass lens. See **Options** on page 2.

5. See pages 6 and 7 for information on optical rotation prior to ordering.

6. Available with 170LA or 260LA LED wattages only.



TYPE: SL3

PureForm LED

Page 2 of 7

P32 Area Luminaires

LED WATTAGE AND LUMEN VALUES

Ordering Code	Average System Watts ⁷	LED Current (mA)	LED Quantity - Dual LED Array		LED Selection	Luminaire Initial Absolute Lumens ^{8,9}				
			Per LED Array	Total LEDs		TYPE 2	TYPE 3	TYPE 4	TYPE 5M	TYPE 5W
110LA	110	350	48	96	NW	8,997 (s)	9,340 (s)	8,687	10,286 (s)	10,901(s)
140LA	140	350	64	128	NW	11,947 (s)	12,380 (s)	11,599 (s)	13,659 (s)	14,475 (s)
170LA	170	350	80	160	NW	14,749	15,204 (s)	14,320	16,863	17,870
160LA	160	530	48	96	NW	12,423 (s)	13,249 (s)	12,263	14,400 (s)	15,580
210LA	210	530	64	128	NW	16,496 (s)	17,593 (s)	16,330 (s)	19,122 (s)	20,638
260LA	260	530	80	160	NW	20,366	21,720	20,161	23,607	25,838

7. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input.

Actual wattage may vary by an additional +/- 10% due to actual input voltage.

8. Values shown are for luminaires without the CLR, DL or EHHS options. Tests are in process for configurations not shown. "(s)" following the value indicates that values are scaled from tests on similar, but not identical luminaire configurations. Contact Gardco.applications@philips.com if any approximate estimates are required for design purposes.

9. Lumen values based on tests performed in compliance with IESNA LM-79.

LED SELECTION

CW	Cool White - 5700°K - 75 CRI Nominal
NW	Neutral White - 4000°K - 70 CRI Nominal
WW	Warm White - 3000°K - 80 CRI Nominal

VOLTAGE

UNIV	120V through 277V, 50hz or 60hz
HVU	347V through 480V, 50hz or 60hz (High Voltage Universal)

FINISH

BRP	Bronze Paint
BLP	Black Paint
WP	White Paint
NP	Natural Aluminum Paint
OC	Optional Color Paint Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.
SC	Special Paint Specify. Must supply color chip.

OPTIONS

F¹⁰	Fusing	DL	Diffusing Lens (reduces performance significantly)
LF	In-Line/In-Pole Fusing	CLR	Clear Glass Lens (reduces performance)
BD¹¹	Bird Deterrent Spike Kit	POLY¹⁵	Polycarbonate Lens (reduces performance)
PC^{12,13,14}	Photocontrol and Receptacle	SPR¹⁶	Surge Protection for 120V through 277V Input meeting ANSI C62.41.2
PCR^{13,14}	Photocontrol Receptacle only	SPRH¹⁶	Surge Protection for 347V through 480V Input meeting ANSI C62.41.2
PCB^{12,13,14}	Button Photocontrol	TB	Terminal Block
EHHS	External Houseside Shield	TL	Provides for access to the LED arrays and driver without tools
PTF2	Pole Top Fitter - 2 3/8" - 3" Dia. Tenon		
PTF3	Pole Top Fitter - 3" - 3 1/2" Dia. Tenon		
PTF4	Pole Top Fitter - 3 1/2" - 4" Dia. Tenon		
SPA1-2	Square Pole Adapter (for use with A1 or A2 Arms)		
SPA3	Square Pole Adapter (for use with A3 Arms)		

10. Available with A1 arm or with MA mounting only.
Provide specific input voltage.

11. Kits consist of 25 injection molded plastic bird deterrent spikes.
Field installation only.

12. Not available in 480V. Provide specific input voltage.

13. Available with A1 or A2 arms, or with MA mounting only.

14. Not available in P32-DCC.

15. Polycarbonate lenses feature a 1 year warranty only.

16. Not available with Fusing (F) option.

ACCESSORIES (Ordered separately)

MS-P	120V or 277V Input - Pedestrian Motion Sensor for P32-MR50 (Motion Response) or P32-APD-MRO (Automatic Profile Dimming with Motion Response Override)
MS-A-120V	120V Input - Area Motion Sensor for P32-MR50 (Motion Response) or P32-APD-MRO (Automatic Profile Dimming with Motion Response Override)
MS-A-277V	277V Input - Area Motion Sensor for P32-MR50 (Motion Response) or P32-APD-MRO (Automatic Profile Dimming with Motion Response Override)

Motion Sensors are ordered separately, with one (1) motion sensor required per pole location for P32-MR50 or P32-APD-MRO luminaires. See Luminaire Configuration Information on page 4-5 for more details. Pedestrian sensor color is white. Area motion sensor color is Arctic White.

1611 Clovis Barker Road, San Marcos, TX 78666
(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com

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G200-036/1012

PHILIPS





TYPE: SL3

PureForm LED

P32 Area Luminaires

DIMENSIONS AND EPA

A1 STANDARD ARM MOUNT	A2 SHORT ARM MOUNT	MA MAST ARM MOUNT																																						
<p>Maximum Profile (All Models) = 3.0" / 7.62 cm</p> <p>A = 6.53" / 16.586 cm</p> <p>B = 9.21" / 23.394 cm</p> <p>40.53" / 102.946 cm</p>	<p>C = 5.73" / 14.554 cm</p> <p>5.1" / 12.954 cm</p> <p>36.43" / 95.532 cm</p>	<p>D = 3.68" / 9.347 cm</p> <p>E = 10.25" / 26.035 cm</p> <p>41.58" / 105.613 cm</p>																																						
<p>20.3" / 51.562 cm</p> <p>A = 6.53" / 16.586 cm</p>	<p>20.3" / 51.562 cm</p> <p>C = 5.73" / 14.554 cm</p>	<p>20.3" / 51.562 cm</p> <p>D = 3.68" / 9.347 cm</p>																																						
A3 DECORATIVE ARM MOUNT	WALL MOUNT																																							
<p>F = 10.06" / 25.552 cm</p> <p>17.41" / 44.221 cm</p> <p>48.74" / 123.8 cm</p>	<p>WITH A1 STANDARD ARM</p> <p>G = 7.25" / 18.415 cm</p> <p>H = 11.29" / 28.677 cm</p> <p>42.62" / 108.255 cm</p>																																							
	<p>WITH A2 SHORT ARM</p> <p>K = 7.25" / 18.415 cm</p> <p>L = 7.18" / 18.237 cm</p> <p>38.51" / 97.815 cm</p>																																							
<table border="1"> <thead> <tr> <th colspan="2">Single Luminaire Weight</th> </tr> <tr> <th>Mounting</th> <th>Approximate Weight</th> </tr> </thead> <tbody> <tr> <td>A1</td> <td>57 lbs / 25.865 kg</td> </tr> <tr> <td>A2</td> <td>56 lbs / 25.402 kg</td> </tr> <tr> <td>A3</td> <td>60.5 lbs / 27.443 kg</td> </tr> <tr> <td>MA</td> <td>57 lbs / 25.865 kg</td> </tr> <tr> <td>W or WS</td> <td>58 lbs / 26.309 kg</td> </tr> </tbody> </table>		Single Luminaire Weight		Mounting	Approximate Weight	A1	57 lbs / 25.865 kg	A2	56 lbs / 25.402 kg	A3	60.5 lbs / 27.443 kg	MA	57 lbs / 25.865 kg	W or WS	58 lbs / 26.309 kg	<table border="1"> <thead> <tr> <th colspan="4">Effective Projected Area ft² / m²</th> </tr> <tr> <th>Mounting</th> <th>Single</th> <th>Twin @ 180</th> <th>3/4</th> </tr> </thead> <tbody> <tr> <td>A1</td> <td>0.40 / 0.038</td> <td>0.80 / 0.075</td> <td>1.65 / 0.154</td> </tr> <tr> <td>A2</td> <td>0.35 / 0.033</td> <td>0.70 / 0.066</td> <td>1.45 / 0.135</td> </tr> <tr> <td>A3</td> <td>0.55 / 0.052</td> <td>1.10 / 0.103</td> <td>2.0 / 0.186</td> </tr> <tr> <td>MA</td> <td>0.40 / 0.038</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Effective Projected Area ft ² / m ²				Mounting	Single	Twin @ 180	3/4	A1	0.40 / 0.038	0.80 / 0.075	1.65 / 0.154	A2	0.35 / 0.033	0.70 / 0.066	1.45 / 0.135	A3	0.55 / 0.052	1.10 / 0.103	2.0 / 0.186	MA	0.40 / 0.038	N/A	N/A
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G200-036/1012

PHILIPS



TYPE: SL3



PureForm LED

P32 Area Luminaires

LUMINAIRE CONFIGURATION INFORMATION (CONTINUED ON PAGE 5)

P32: Philips Gardco PureForm LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized.

P32-DCC: Philips Gardco PureForm luminaires provided with dual circuiting, permitting separate switching of each led array.

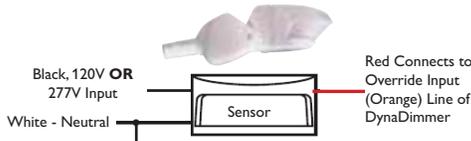
P32-DIM: Philips Gardco PureForm LED luminaire provided with 0 -10V dimming for connection to a control system provided by others.

P32-MR50: Philips Gardco PureForm LED luminaire with motion response, providing a 50% power reduction on low and a commensurate reduction in light output. The power and light output reduction is accomplished utilizing the Philips DynaDimmer module, programmed for a constant 50% power. Power supplied by the motion sensor connected to the override line on the DynaDimmer takes the luminaire to high setting, 100% power and light output, when motion is detected. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

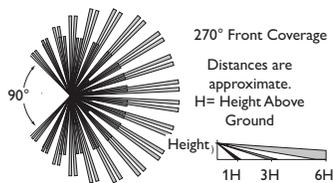
P32-MR50 is available in 120V through 277V input only to the luminaire. Motion sensors require single voltage 120V or 277V input.

The Area PIR motion sensor is the WattStopper EW-200-120-W (120V Input - MSA-120V) or the WattStopper EW-200-277-W (277V Input - MSA-277V.) One motion sensor per pole is required and is ordered separately. Area sensors require single voltage 120V or 277V input.

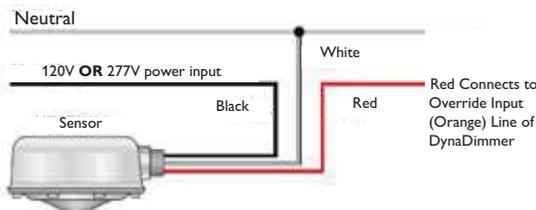


The area motion detector provides coverage equal to up to 6 times the sensor height above ground, 270° from the front-center of the sensor.

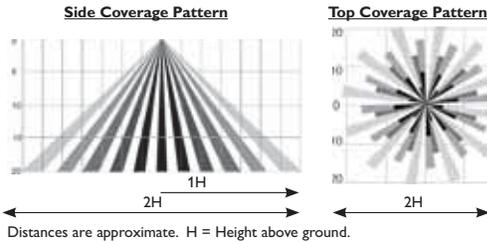
Area PIR Motion Sensor Coverage Pattern:



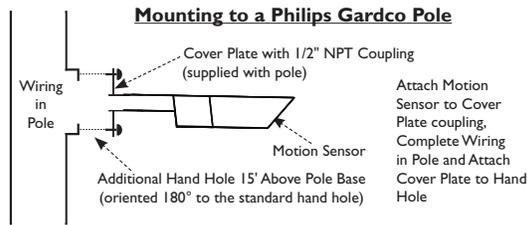
The Pedestrian PIR motion sensor is the WattStopper HB350W-L3. One motion sensor per pole is required and is ordered separately as the MS-P accessory, see page 2. The Pedestrian sensor accept 120V or 277V input.



The pedestrian motion detector provides coverage equal to the sensor height above ground, in all directions from the sensor (360°). For longer range detection applications, The area motion sensor is recommended.



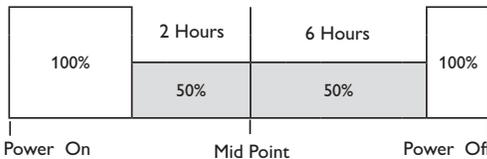
Motion response requires that the pole include an additional hand hole 15 feet above the pole base, normally oriented 180° to the standard hand hole. For Philips Gardco poles, order the pole with the Motion Sensor Mounting (MSM) option which includes the hand hole and a special hand hole cover plate for the sensor with a 1/2" NPT receptacle centered on the hand hole cover plate into which the motion sensor mounts. Once the motion sensor is connected to the hand hole cover plate, then wiring connections are completed in the pole. The plate (complete with motion sensor attached and wired) is then mounted to the hand hole. **If poles are supplied by others, the customer is responsible for providing suitable mounting accommodations for the motion sensor in the pole.**



P32-APD: Philips Gardco PureForm LED luminaire with Automatic Profile Dimming. Luminaire is provided with a programmable LED Driver. The programmable LED Driver is programmed to go to 50% power, 50% light output two (2) hours prior to night time mid-point and remain at 50% for six (6) hours after night time mid-point. Mid-point is continuously recalculated by the programmable LED Driver based on the average mid-point of the last two full night cycles. Short duration cycles, and power interruptions are ignored and do not affect the determination of mid-point.

P32-APD is available in 120V through 277V input only.

P32-APD Dimming Profile:



The P32-APD offers many of the advantages of a sophisticated control system, including an average energy savings of at least 33% versus constant wattage, constant light output systems, without the need for a control system.





TYPE: SL3

PureForm LED

Page 5 of 7

P32 Area Luminaires

LUMINAIRE CONFIGURATION INFORMATION (CONTINUED FROM PAGE 4)

P32-APD-MRO: Philips Gardco PureForm LED luminaire with Automatic Profile Dimming, with Motion Response Override. The P32-APD-MRO combines the benefits of both automatic profile dimming and motion response, using the Philips DynaDimmer module. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for the P32-APD. If motion is detected during the time that the luminaire is operating at 50%, the luminaire returns to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

P32-APD-MRO is available in 120V through 277V input only to luminaire. The motion sensor requires either 120V or 277V input to the motion sensor.

The P32-APD-MRO has the same pole requirements and utilizes the same motion sensors as the P32-MR50. The motion sensor mounts and wires identically as well. The P32-APD-MRO utilizes the identical dimming profile as shown for the P32-APD.

By combining the benefits of automatic profile dimming and motion response, the P32-APD-MRO assures maximum energy savings, and insures that adequate light is present if motion is detected.

Note: All motion sensors utilized consume 0.0 watts in the off state.

SPECIFICATIONS

GENERAL DESCRIPTION: Philips Gardco PureForm luminaires combine LED performance excellence and advanced Gardco LED thermal management technology with a distinct purity of style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing. PureForm is defined by its high performance, sleek low profile design and rugged construction. The die cast aluminum housing mounts directly to a pole or wall, and has a maximum profile of just 3". All LED wattages utilize high performance Class 1 LED systems. The luminaire features a state of the art integral thermal control system to maximize LED performance and life, and to extend component life. The door frame is die cast aluminum. Luminaires are finished with a fade and abrasion resistant TGIC powdercoat. PureForm luminaires are available in a wide variety of mountings and arms.

HOUSING: The PureForm features a die cast aluminum housing, and mounts directly to a pole or wall. The low profile rounded form reduces the effective projected area of the luminaire significantly.

PureForm luminaires supplied with A1, A2 and A3 arms are provided with arms firmly attached to the main luminaire housing body. As a result, the luminaires provide the functionality, strength and installation ease of an integral arm luminaire.

Mast arm mount luminaires are provided with the mast arm mounting assembly firmly attached to the main luminaire housing body.

IP RATING: PureForm luminaires have a rating of IP66.

VIBRATION RESISTANCE: PureForm carries a 3G vibration rating that conforms to standards set forth by ANSI C136.31. Testing includes vibration to 3G acceleration in three axes, all performed on the same luminaire.

OPTICAL SYSTEMS: The advanced LED optical systems provide IES Types II, III, IV and V distributions, as well as a Backlight Control optic. Special LEED corner cutoff optics are also available, both as LCR (right) and LCL (left.) All optical systems feature unitized lens optic construction.

Types 2, 3, 4, BLC and LCR/LCL optical systems utilize an innovative redirecting reflector system to complement the performance of the LED optic. The redirecting reflector system includes a black surrounding surface to minimize aperture brightness when viewed from the rear of the luminaire.

PureForm luminaires are provided standard without a glass lens, for maximized performance. A glass lens is available as an option, resulting in reduced performance. All PureForm luminaires provide full cutoff performance.

LED RELIABILITY:

PREDICTED LUMEN DEPRECIATION DATA		
Ambient Temperature °C	Driver mA	L ₇₀ Hours ¹⁷
25 °C	350 mA	240,000
	530 mA	165,000
40 °C	350 mA	215,000
	530 mA	148,000

17. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.

THERMAL MANAGEMENT: The Philips Gardco PureForm LED provides die cast aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

ELECTRICAL: Luminaires are equipped with an LED driver that accepts 120V through 277V, or 347V through 480V, 50hz to 60hz, input. Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 302°F / 150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. Power factor is not less than 90%. Luminaire consumes 0.0 watts in the off state. All motion sensors utilized consume 0.0 watts in the off state.

FINISH: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

WARRANTY: Philips Gardco luminaires feature a 5 year limited warranty. Philips Gardco LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. LED Drivers also carry a 5 year limited warranty. Motion sensors are covered by warranty for 5 years by the motion sensor manufacturer. See Warranty Information on www.sitelighting.com for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

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G200-036/1012

PHILIPS





TYPE: SL3

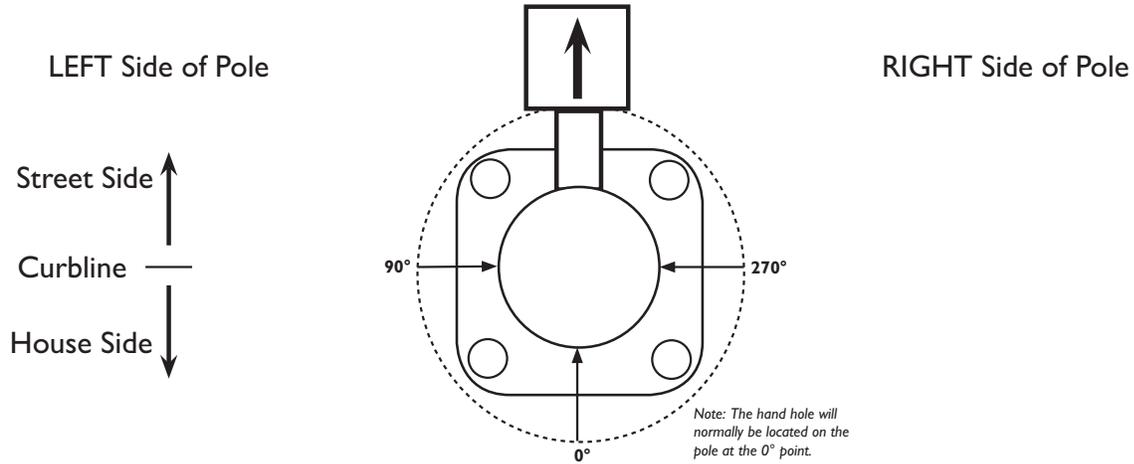
PureForm LED

P32 Area Luminaires

ASYMMETRIC OPTICAL ORIENTATION INFORMATION (CONTINUED ON PAGE 7)

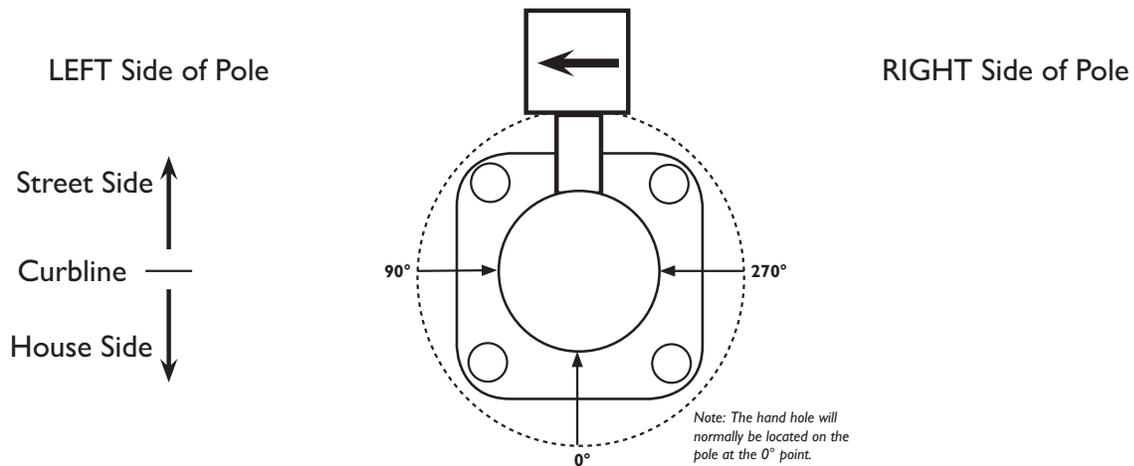
STANDARD OPTIC POSITION:

Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



OPTIC ROTATED LEFT (90°) OPTIC POSITION:

Luminaires ordered with asymmetric optical systems in the **OPTIC ROTATED LEFT (90°)** optic position will have the optical system oriented as shown below:





TYPE: SL3

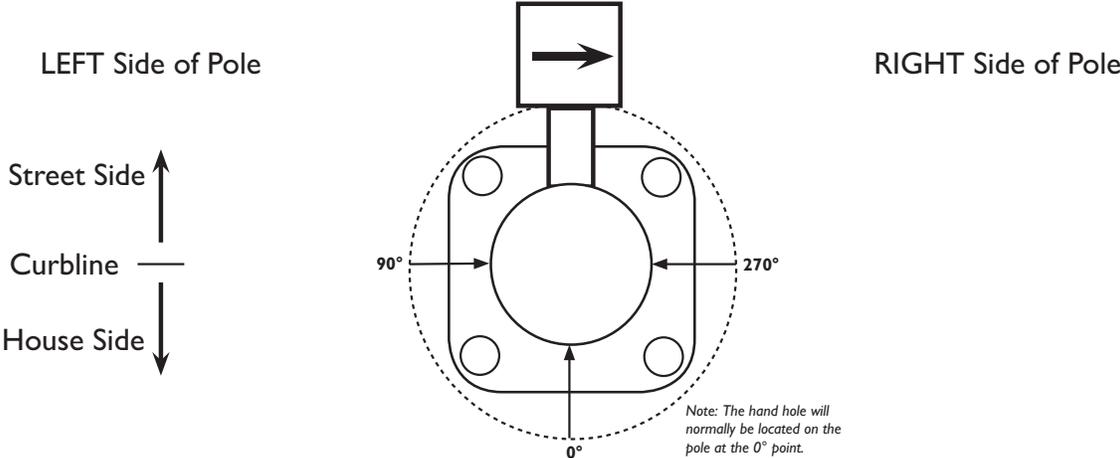
PureForm LED

P32 Area Luminaires

ASYMMETRIC OPTICAL ORIENTATION INFORMATION (CONTINUED FROM PAGE 6)

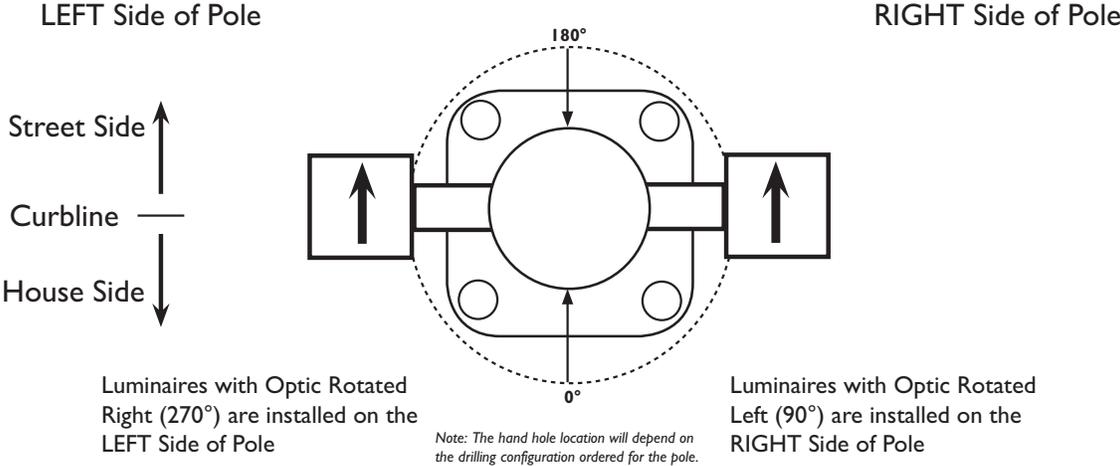
OPTIC ROTATED RIGHT (270°) OPTIC POSITION:

Luminaires ordered with asymmetric optical systems in the **OPTIC ROTATED RIGHT (270°)** optic position will have the optical system oriented as shown below:



TWIN LUMINAIRE ASSEMBLIES WITH ROTATED OPTICAL SYSTEMS:

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.





Date: _____ Type: SL2
 Firm Name: _____
 Project: _____

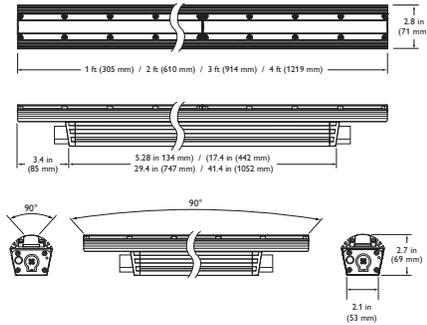
iW Graze EC Powercore

90° x 90° beam angle

Cost-effective linear exterior LED wall grazing fixture with intelligent white light

The most cost-effective of our intelligent white light grazing fixtures, iW Graze EC Powercore features a wide beam angle (90° x 90°) that produces a soft-edged, volume fill for exterior cove, niche, and architectural detail illumination. Featuring Powercore technology, fixtures process power directly from line voltage, eliminating the need for external power supplies. These versatile fixtures use channels of cool, neutral, and warm white LEDs to produce color temperatures ranging from 2700 K – 6500 K. Four fixture lengths allow placement in applications both large and small.

For detailed product information, please refer to the iW Graze Powercore Family Product Guide at www.philipscolorkinetics.com/ls/intelligentwhite/ivgrazeqxpowerscore/



Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	1 ft (305 mm)	2 ft (610 mm)	3 ft (914 mm)	4 ft (1219 mm)
Output	Lumens*	412	824	1236	1648
	Efficacy (lm / W)	29.6			
	CRI	82			
	Lumen Maintenance‡	60,000 hours L70 @ 25° C 60,000 hours L70 @ 50° C 60,000 hours L50 @ 25° C 60,000 hours L50 @ 50° C			
Electrical	Input Voltage	100 – 277 VAC, auto-ranging 50 / 60 Hz			
	Power Consumption	10 W	20 W	30 W	40 W
Control	Interface	Data Enabler Pro (DMX or Ethernet)			
	Control System	Philips Color Kinetics full range of controllers, including Light System Manager and iPlayer 3, or third-party controllers			
Physical	Dimensions (Height x Width x Depth)	2.7 x 12 x 2.8 in (69 x 305 x 71 mm)	2.7 x 24 x 2.8 in (69 x 610 x 71 mm)	2.7 x 36 x 2.8 in (69 x 914 x 71 mm)	2.7 x 48 x 2.8 in (69 x 1219 x 71 mm)
	Weight	2.1 lb (1.0 kg)	4.6 lb (2.1 kg)	7.1 lb (3.2 kg)	9.3 lb (4.2 kg)
	Housing	Extruded anodized aluminum			
	Lens	Clear polycarbonate			
	Fixture Connectors	Integral male / female waterproof connectors			
	Mounting	Multi-positional, constant torque locking hinges			
	Temperature	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage			
	Humidity	0 – 95%, non-condensing			
Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/				
Certification and Safety	Certification	UL / cUL, FCC Class A, CE, PSE, C-Tick			
	Environment	Dry / Damp / Wet Location, IP66			

* 1 ft (305 mm) lumen output measurements comply with IES LM-79-08 testing procedures. 2 ft (610 mm), 3 ft (914 mm), and 4 ft (1219 mm) measurements are estimated based on the 1 ft (305 mm) measurements.

‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output). L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.



TYPE: SL2

Fixtures and Accessories

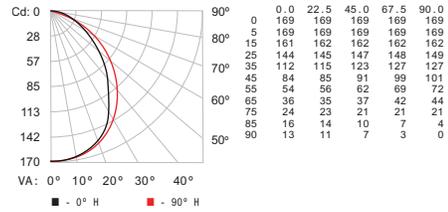
Item	Type		Item Number	Philips 12NC
iW Graze EC Powercore	90° x 90° beam angle	1 ft (305 mm)	523-000079-40	910503703684
		2 ft (610 mm)	523-000079-41	910503703685
		3 ft (914 mm)	523-000079-42	910503703686
		4 ft (1219 mm)	523-000079-43	910503703687
Leader Cable with Terminator	UL / cUL	10 ft (3.0 m)	108-000055-03	910503704066
		50 ft (15.2 m)	108-000055-00	910503703137
	CE / PSE	10 ft (3.0 m)	108-000055-04	910503704067
		50 ft (15.2 m)	108-000055-01	910503704064
Jumper Cable	UL / cUL	End-to-End	108-000057-00	910503703139
		1 ft (305 mm)	108-000057-03	910503704076
		5 ft (1.5 m)	108-000057-06	910503704079
	CE / PSE	10 ft (3.0 m)	108-000057-09	910503704082
		End-to-End	108-000057-01	910503704074
		1 ft (305 mm)	108-000057-04	910503704077
		5 ft (1.5 m)	108-000057-07	910503704080
		10 ft (3.0 m)	108-000057-10	910503704083
Glare Shield		1 ft (305 mm)	120-000081-00	910503700745
		2 ft (610 mm)	120-000081-01	910503700746
		3 ft (914 mm)	120-000081-02	910503700747
		4 ft (1219 mm)	120-000081-03	910503700748
Additional Terminators	Quantity 10	120-000157-00	910503703142	
Additional Hinge	Quantity 1	120-000098-00	910503700772	

Use Item Number when ordering in North America.

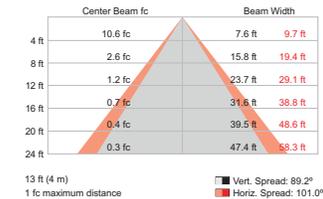
Photometrics

iW Graze EC Powercore
1 ft, 90° x 90° beam angle

Polar Candela Distribution



Illuminance at Distance



Lumens	Efficacy
412	29.6

For lux multiply fc by 10.7

CHROMACORE[®] CK TECHNOLOGY | OPTIBIN[®] CK TECHNOLOGY | POWERCORE[®] CK TECHNOLOGY



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Fax 617.423.9998
www.philipscolorkinetics.com

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lumière

DESCRIPTION

Eon 303 - W1 and 303 - W2 are compact, low profile, dimmable, ADA compliant LED luminaires. Model 303 - W1 provides either uplight or downlight depending upon how it is mounted. Model 303 - W2 provides both uplight and downlight simultaneously. Dimming is achieved with a standard ELV reverse phase dimming driver or, for the 303 - W1 model only, an optional 0 - 10V dimming driver. Both models mount directly to any wall surface over a standard 4" jbox and come standard with a universal input LED driver (120 - 277V, 50/60 Hz). Both fixtures may be used indoors or outdoors and carry an IP66 rating.

Catalog #		Type
Project		SL1
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Material

Head and backplate are precision-machined from corrosion-resistant 6061-T6 aluminum, C360 brass, C932 bronze, C110 copper or 303/304 stainless steel.

B ... Finish

Fixtures constructed from aluminum are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available. Aluminum fixtures can also be brushed and clear coat painted.

Brass, Bronze, Copper or Stainless Steel

Fixtures constructed from brass, bronze, copper or stainless steel are left unpainted to reveal the natural beauty of the material. Brass, bronze and copper will patina over time.

C ... Gasket

The backplate is sealed with a high temperature silicone gasket to prevent water intrusion into the jbox.

D ... Lens

Diffused, tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock. EDGE LIT option: when specified with the EDGE LIT option, the glass will be slightly thicker, diffused, tempered and sealed in the same manner referenced above. The added glass thickness will offer a brighter line of light around the edge of the glass that will accentuate the fixture's aesthetics and styling.

E ... Mounting

Both models mount directly to a standard 4" jbox. Model 303 - W1 provides downlight or uplight. Model 303 - W2 provides non-adjustable uplight and downlight.

F ... Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

G ... Electrical

Both models comes standard with a universal input LED driver (120-277, 50/60Hz). The standard driver is ELV reverse phase dimmable. For the single head model only, 303 - W1, an optional 0 - 10V dimming driver is also available.

H ... LED

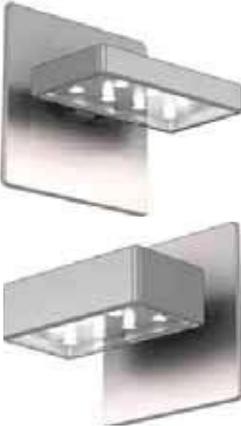
LEDs are included and available in three color temperatures (2700K, 3000K & 4000K) and a variety of optics. Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog logic. For the up and down model, 303 - W2, the uplight is always a T5X, type V extra wide flood. The specified distribution (T2, T4 or T5) is associated with the downlight.

I ... Labels & Approvals

UL and cUL listed, standard wet label. IP66 rated.

J ... Warranty

Lumiere warrants it's fixtures against defects in materials & workmanship for five (5) years. Auxiliary equipment such as transformers, ballasts and LED drivers carry the original manufacturer's warranty.



EON

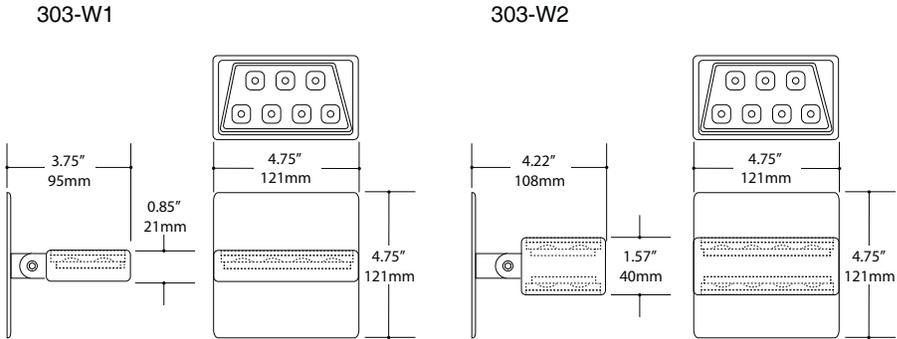
303-W1/303-W2

8.8 W LED
17.6 W LED

LED

WALL

IP66



TYPE: SL1

LED INFORMATION

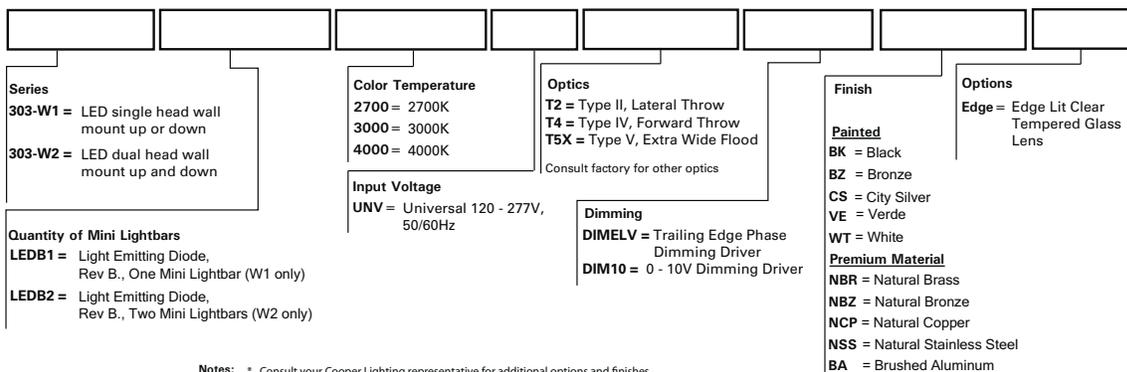
LED	Watts	Distribution	Total Lumens	CRI	°K	Life (hrs.)	Volts
T2, 2700K	8.8	Type II - Lateral Throw	364	95	2700	50000	120V - 277V, 50/60 Hz
T2, 3000K	8.8	Type II - Lateral Throw		85	3000	50000	120V - 277V, 50/60 Hz
T2, 4000K	8.8	Type II - Lateral Throw	607	65	4000	50000	120V - 277V, 50/60 Hz
T4, 2700K	8.8	Type IV - Forward Throw	340	95	2700	50000	120V - 277V, 50/60 Hz
T4, 3000K	8.8	Type IV - Forward Throw		85	3000	50000	120V - 277V, 50/60 Hz
T4, 4000K	8.8	Type IV - Forward Throw	566	65	4000	50000	120V - 277V, 50/60 Hz
T5X, 2700K	8.8	Type V - Flood	381	95	2700	50000	120V - 277V, 50/60 Hz
T5X, 3000K	8.8	Type V - Flood		85	3000	50000	120V - 277V, 50/60 Hz
T5X, 4000K	8.8	Type V - Flood	635	65	4000	50000	120V - 277V, 50/60 Hz
T2, 2700K	17.6	Type II - Lateral Throw	745	95	2700	50000	120V - 277V, 50/60 Hz
T2, 3000K	17.6	Type II - Lateral Throw		85	3000	50000	120V - 277V, 50/60 Hz
T2, 4000K	17.6	Type II - Lateral Throw	1242	65	4000	50000	120V - 277V, 50/60 Hz
T4, 2700K	17.6	Type IV - Forward Throw	721	95	2700	50000	120V - 277V, 50/60 Hz
T4, 3000K	17.6	Type IV - Forward Throw		85	3000	50000	120V - 277V, 50/60 Hz
T4, 4000K	17.6	Type IV - Forward Throw	1201	65	4000	50000	120V - 277V, 50/60 Hz
T5X, 2700K	17.6	Type V - Flood	762	95	2700	50000	120V - 277V, 50/60 Hz
T5X, 3000K	17.6	Type V - Flood		85	3000	50000	120V - 277V, 50/60 Hz
T5X, 4000K	17.6	Type V - Flood	1270	65	4000	50000	120V - 277V, 50/60 Hz

NOTES AND FORMULAS

- Apply appropriate light loss factors where necessary.
- Photometry is LM-79 compliant.

ORDERING INFORMATION

Sample Number: 303 - W2 - LEDB2 - 3000 - UNV - T2 - BA





1-year warranty



luxrail™

INTERIOR/EXTERIOR APPLICATIONS

TYPE: "HANDRAIL"

Application

ANSI and ADA compliant, **luxrail** is an indoor/outdoor LED-based handrail that delivers functional illumination. Three intensities may be specified: standard output, mid output, and high output. The standard light output version delivers illuminance levels appropriate for exterior applications (2 footcandles at grade) as well as for dark interior environments with low ambient illumination levels (e.g., themed environments, theatres and residential areas). The high output version delivers illuminance levels applicable to interior environments – providing in excess of 10 footcandles along the path of egress (ANSI required for stair treads). Independent photometric test reports and IES Format data are available at www.iolighting.com.

luxrail's standard handrail gripping surfaces are circular in cross section and meet 2004 ADAAG (Americans with Disability Act Accessibility Guidelines). Patented optical assemblies deliver 10°, 25°, and 55° beam spreads, as well as a 90° asymmetric option. The 25° and 55° beam patterns are most suitable for illuminating pathways, while the 10° beam spread offers accent lighting for optional glass or stainless steel cable railing infills. Reference page 54 of this catalog for information regarding infill options. Projected average rated life is 50,000 hours at 70% of lamp lumen output. Contact factory for IES LM-80 compliance. To ensure proper performance, architectural details should allow for ventilation and air flow around the fixture. Ambient temperature surrounding the fixture shall not exceed 122°F (50°C).

Light Output

Three luminous intensities are available for white light. All values below represent the initial raw lumens of the LED. IES format photometry of Lighting Facts labels represent actual light output measured in lumens and candle power. Light output losses include optical, thermal and power supply inefficiencies. IES LM-79 format files may be obtained from the factory or downloaded from www.iolighting.com. Results are typical measurements.

	Standard Output	Mid Output	High Output
2700K White:	67 lms/ft	181 lms/ft	248 lms/ft
3000K White:	71 lms/ft	193 lms/ft	264 lms/ft
3500K White:	76 lms/ft	205 lms/ft	281 lms/ft
4000K White:	76 lms/ft	205 lms/ft	281 lms/ft
5000K White:	84 lms/ft	229 lms/ft	314 lms/ft

Construction

luxrail may be post mounted or wall mounted. **io** recommends installation be completed by a qualified handrail installer. Mounting hardware (post or wall) is typically required up to 5' O.C., depending on the handrail alloy. Final post and wall bracket spacing must be determined by a licensed architect or structural engineer. **luxrail** is available in stainless steel and aluminum. Vandal resistant access chamber allows units to be removed for maintenance purposes.

All handrail component parts are engineered for quick installation. Field welding or cutting is typically not required. All parts are prefabricated to field dimensions and are assembled in the field with mechanical connection or epoxy. Contact **io** Lighting for recommended handrail installers.

The LED light fixture inside the caprail is UL Listed for wet locations. Handrail alloy options include stainless steel and aluminum. Contact factory for maintenance guidelines.

Electrical

luxrail houses a low voltage LED-based light fixture that is integrated into the underside of the handrail. 24 volt 100 watt power supplies are provided as a standard. For detailed information regarding daisy chain limitations, remote distance limitations, power supply options, and dimming options consult the **io** website (www.iolighting.com) or an **io** representative.

Driver Remote Distance

- 7'-0" (2.1m) w/22 AWG
- 18'-0" (5.5m) w/18 AWG
- 46'-0" (14.0m) w/14 AWG
- 71'-0" (21.6m) w/12 AWG

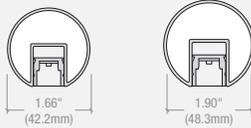
Dimming modules must be specified separately. For detailed information download the power supply specification sheet from www.iolighting.com.

Power Consumption

Power consumption does not include power supply losses.

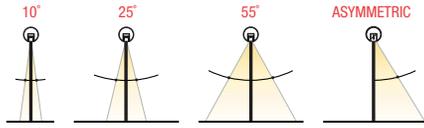
Standard Output: 1.52 w/ft	Mid Output: 3.81 w/ft	High Output: 5.59 w/ft
----------------------------	-----------------------	------------------------

Dimensions

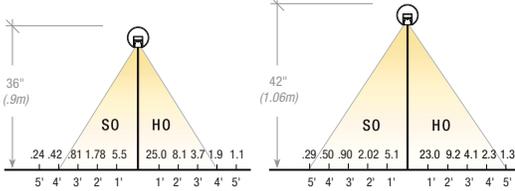


Label references 30" **luxrail** fixture with a 55° beam spread in High Output 3000K. Lighting Facts for additional beam spreads and light output levels may be obtained from **io** Lighting.

BEAM SPREAD OPTIONS

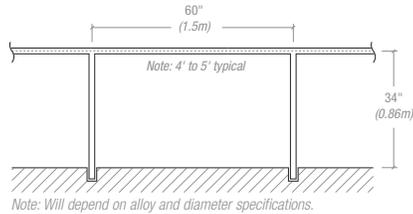


LIGHT OUTPUT - 55 DEGREE WARM WHITE



Calculation assumes 12'0" run length. All footcandle values are initial.

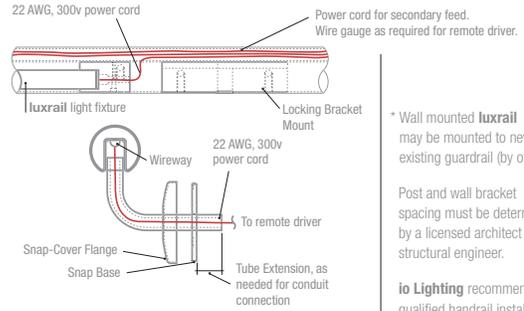
POST MOUNT APPLICATION



Light Output / Distributions

WALL MOUNT DETAILS*

TYPE: "HANDRAIL" luxrail™



* Wall mounted luxrail may be mounted to new or existing guardrail (by others). Post and wall bracket spacing must be determined by a licensed architect or structural engineer.

io Lighting recommends a qualified handrail installer be on site during install.

LIGHT OUTPUT CONVERSION TABLE

	Standard Output	Mid Output	High Output
2700K White	0.25 ⁽¹⁾	0.69 ⁽¹⁾	0.94 ⁽¹⁾
3000K White	0.27 ⁽¹⁾	0.73 ⁽¹⁾	1.00 ⁽¹⁾
3500K White	0.29 ⁽¹⁾	0.78 ⁽¹⁾	1.06 ⁽¹⁾
4000K White	0.29 ⁽¹⁾	0.78 ⁽¹⁾	1.06 ⁽¹⁾
5000K White	0.32 ⁽¹⁾	0.87 ⁽¹⁾	1.19 ⁽¹⁾

Note: Visit www.ioighting.com or contact an io representative for IES format photometrics.

Color Light Output	RED	GREEN	BLUE	AMBER
Light Output Multiplier	0.53 ⁽²⁾	0.51 ⁽²⁾	0.30 ⁽²⁾	0.51 ⁽²⁾

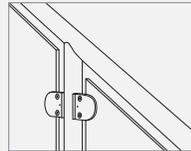
Mounting / Infill Options



PM (post mounted)



WM (wall mount intermediate)



Glass infill
(glass provided by others)



Stainless steel cable infill
(only available on flat surfaces)

Order Code



- 1. **PRODUCT FAMILY**
- 06 luxrail
- 2. **ALLOY / FINISH**
- SSS Stainless steel satin
- SSP Stainless steel polished
- CAA Clear anodized aluminum
- 3. **SIZE**
- 1 1.66" O.D. (1¼" pipe size) (available in SS only)
- 2 1.90" O.D. (1½" pipe size) (available for SS & CAA)
- 4. **MOUNTING**
- PMC Post mount concrete
- PMW Post mount wood
- PMS Post mount stone
- WM Wall or guard rail mounted

- 5. **INFILL**
- AC Stainless steel cable ⁽⁶⁾
- GL Glass (provided by others)
- C Custom
- NR Not required
- 6. **LIGHT DISTRIBUTION**
- 10 10 Degree
- 25 25 Degree
- 55 55 Degree
- ASYM Asymmetric
- NI Handrail only (not illuminated)
- 7. **LIGHT COLOR**
- 27K Warm White
- 3K Warm White ⁽⁸⁾
- 35K Warm White
- 4K Warm White

- 5K Cool White ⁽⁸⁾
- 27KMO Warm White
- 3KMO Warm White ⁽⁸⁾
- 35KMO Warm White
- 4KMO Warm White
- 5KMO Cool White ⁽⁸⁾
- 27KH0 Warm White
- 3KH0 Warm White ⁽⁸⁾
- 35KH0 Warm White
- 4KH0 Warm White
- 5KH0 Cool White ⁽⁸⁾
- R Red⁽⁴⁾
- G Green⁽⁴⁾
- B Blue⁽⁴⁾
- A Amber⁽⁴⁾
- CC Custom Color⁽⁷⁾

- 9. **VOLTAGE / DIMMING**
- 1 120v
- 2 277v
- 3 120v w/dim
- 4 277v w/dim
- 5 Other (International voltage)

10. **SPECIFY DRIVER / DIMMING⁽¹⁾**
 Note: If not specified otherwise, io will supply 100 watt drivers. Download Power Supply specification sheet from www.ioighting.com.

- 11. _____
- CE Available upon request.

- 8. **LENGTH**
- GB2 Grab Bar 2' nominal⁽²⁾
- GB3 Grab Bar 3' nominal⁽²⁾
- GB4 Grab Bar 4' nominal⁽²⁾
- GB5 Grab Bar 5' nominal⁽²⁾
- HR Hand Rail length in Feet / Inches (provide overall length of each handrail section)⁽²⁾⁽⁶⁾

Footnotes

- 1. Power Supply Specification Sheet may be downloaded from www.ioighting.com.
- 2. Each handrail application will be custom to accommodate varying field conditions and design requirements. Shop drawings will be required to manage specifics of each handrail section.
- 3. White light variance between LEDs is equal to or better than 3-step MacAdam Binning.
- 4. Only available in 7.6 w/ft.
- 5. Stainless Steel cable available for flat surfaces only.
- 6. Detailed elevation drawings of handrail section are required for quote.
- 7. Non-standard color temperature and CRI are available. Consult factory for availability.



Scan this QR code to view luxrail applications or visit youtube.com/ioighting

TYPE: DL3

C2L04

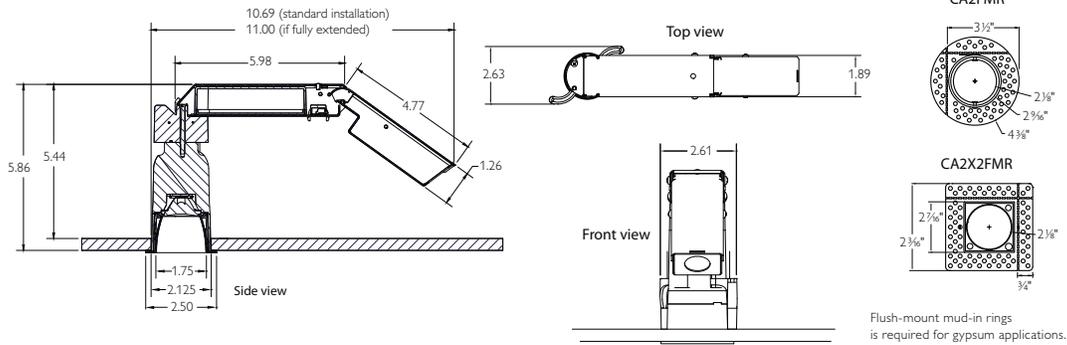
Calculite 1.75" Aperture, 400 Lumen LED

Page 1 of 6

Catalog number:

Notes:

Type: DL-3



Ordering Guide: Frame-in Kits

Frame-in Kit Series	Lumen Package (nominal)	Style	Color Temp	Beam Spread	Installation Style ²	Input Voltage
C2L	04 (400 Lumens)	DL (Downlight flanged) DLFT (Downlight flush-mount) ¹	30K (3000K) 27K (2700K)	12 (12 degrees) 17 (17 degrees) 25 (25 degrees) 38 (38 degrees) 47 (47 degrees)	R (install-from-below)	1 (120V) UZ10V (universal with 0-10V dimming)

¹requires "FT" series reflectors and mud ring (ordered separately)

Ordering Guide: Reflectors

Reflector Series	Style	Finish	Flange
C2L (Round)	DL (Downlight-50° cutoff) DLLS (Downlight with linear spread lens-75° cutoff) LW (Lensed Wall Washer) ^{3,4}	BK (Black) CCD (Comfort Clear Diffuse) CCZ (Champagne Bronze) WH (Painted White)	P (aperture-matching) FT (Flush-mount)*
C2X2L (Square)	DL (Downlight-50° cutoff) LW (Lensed Wall Washer) ³	BK (Black) WH (Painted White)	P (Aperture-matching) FT (Flush-mount)*

³17° beam spread recommended
⁴18" max installation from vertical surface recommended

*requires "FT" series frame-in kit

TYPE: DL3

C2L04

Calculite 1.75" Aperture, 400 Lumen LED

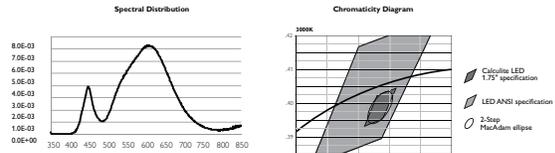
Page 2 of 6

Features**Aperture:** 1.75" (44 mm) I.D., 2.50" (63mm) O.D.**Input Wattage:** 11W max. (C2L04)**Fixture Output:** Aluminum. Provides 50° cutoff to source & source image. Self-flanged.**Beam Spread options:**

Beam Spread	Spacing Criterion	Delivered Lumens	Efficacy	CBCP
12°	0.2	328 lm	29.8 lm/w	5099
17°	0.3	412 lm	37.3 lm/w	3282
25°	0.4	382 lm	36.0 lm/w	1995
38°	0.6	377 lm	34.9 lm/w	936
47°	0.7	331 lm	30.0 lm/w	544

Reflector Cone: Aluminum. Provides 50° cutoff to source & source image. Twist & lock installation within frame-in kit ensures snug fit to ceiling.**Reflector Flange:** Thickness: 0.09" (2.4 mm). Width (flanged) 0.37" (9.5 mm). Width "flush-mount) 0.19" (4.8 mm)**Required Depth:** 5.91" (150 mm). 5.5" plenum depth required for Non-IC installation. see above for fixture dimensions**Ceiling Cutout:** 2.125" (54mm)**Installation:** Hinged design allows fixture to be installed from below ceiling. Two screws actuate pivoting installation arms.

Vertical installation only (as shown in above drawings).

Thick Ceiling Capability: 3/8" - 2".**Optical Accessories:** One (1) accessory as defined in "Accessories-Optical" below. Accessories install securely to top of reflector housing. Proper positioning ensured via offset die cut.**Field Accessibility:** LED array, beam spreads (optics) and driver are field interchangeable/replaceable**Fixture Weight:** 1.8 Lbs.**Electrical****Power connection:** Integral connection between driver and LED array**Junction Box:** UL listed for 6 No 12 AWG, 90°C through branch circuit connectors. Allows inspection from below. Compatible with 2-1 conduit connector for daisy chaining.**Minimum Starting Temperature:** -20°C**Maximum Operating Temperature:** 60°C**Input Voltage:** 120V**Input Frequency:** 60Hz**Input Current:** .09A**LED Drive Current:** 670mA**Input Power:** 11W**LED Power:** 9.1W**THD:** <20%**Power Factor:** >0.9**FCC Rating:** Part 15 / Class B driver**Technology****Array:** 4-chip LED array featuring 2-step SDCM binning control**Photometric Performance:** Tested in accordance to IESNA LM-79-2008**Color Consistency:** 2 SDCM (max.)**Spectral Power Distribution:**

Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9
81.0	80.2	87.1	91.0	78.9	78.3	81.0	85.6	66.2	21.3
R10	R11	R12	R13	R14					
67.7	74.9	62.1	81.4	94.2					

Dimming Capability: ELV dims to nominal 10% lumen output.

See LED-DIM specification sheet for dimming system compatibility.

Emergency Capability (Inverter): Yes.

See LED-LMI specification sheet

Rated Life**LED Array:** 50,000 hours at 70% lumen maintenance (L70, B50).

Based on IESNA LM-80-2008.

Driver: 50,000 hours**Labels**

UL, cUL, I.B.E.W, AirSeal

17°, 25° & 38° & 47° beams suitable for wet location

12° beam suitable for damp location

5 year warranty

PHILIPS
LIGHTOLIER

TYPE: DL3

C2L04

Calculite 1.75" Aperture, 400 Lumen LED

Page 3 of 6

Ordering Guide: Accessories

Accessories-Optical	Lumen Package (nominal)*
CA2DF2	2 degree clear diffusion film
CA2DF85	85 degree frosted diffusion film
CA2OPF	Opal 2700K warming / frosted diffusion film

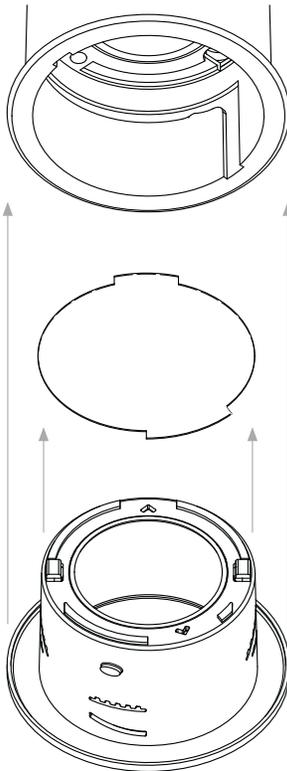
* Actual diffusion depends on selected beam spread

Ordering Guide: Installation Accessories

Accessories-Installation	Lumen Package (nominal)*
C2LIC	IC frame (new construction)
C2LMP	New construction mounting pan
CA2FMR	Round aperture flush-mount mud-in ring
CA2X2FMR	Square aperture flush-mount mud-in ring

* Recommended for specific applications.

To minimize accessory thickness and thus maximize optical performance, microstructure lenses are utilized in lieu of traditional glass lenses.



Reflector can be rotated 90° to ensure proper alignment. Friction-fit design maintains installation integrity.

For wall washer & linear spread options, lenses are factory-assembled into specified reflector.

Accessories are keyed to ensure proper installation.

Fixtures accept one accessory, which can be field-installed in any reflector assembly.

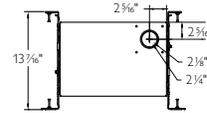
Durability

Calculite LED 1.75" fixtures operating temperatures are well below the recommended thermal limit of each optical accessory, eliminating lens degradation and ensuring maximum optical stability.

Optional Installation Accessories

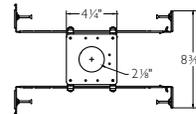
The standard C2L product offering is Non-IC, wet location listed* with no additional "frame-in kit" required. Listed below are additional frame options.

C2LIC



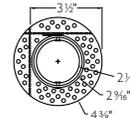
IC frame (new construction). Certified for use in Chicago Plenum applications. Includes bar hangers with preset screws which accommodate 12"-24" joist spacing. Bars also attach to T-bar ceilings. Width (min): 13 7/16", Length: 14 9/16", Depth: 9 5/16".

C2LMP



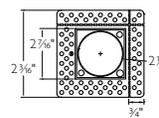
New construction mounting pan provides ability to prelocate wiring for easy below-ceiling access. Includes bar hangers with preset screws which accommodate 12"-24" joist spacing. Bars also attach to T-bar ceilings. Width: 5.5", Length (min): 13.12"

CA2FMR



Round aperture flush-mount mud-in ring. Recommended for gypsum applications. Perforated flange allows installation only 1.4" from vertical structure, including corners.

CA2X2FMR



Square aperture flush-mount mud-in ring. Recommended for gypsum applications. Perforated flange allows installation only 1.4" from vertical structure, including corners. Square plate secures magnetically to mud-in ring. Tether included.

TYPE: DL3

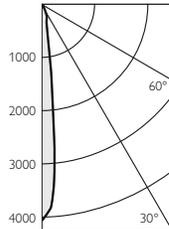
C2L04

Calculite 1.75" Aperture, 400 Lumen LED

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Reflector Finish Multipliers: CCD (1.0) WH (0.95) CCZ (0.88 (est.)) BK (tbd) CCD finish is tested. All other finishes calculated.

Candela Plot



Fixture: C2L04DL30K12R1
Reflector: C2LDLCCDP
Accessory: none
Beam Angle: 12°
Spacing Ratio: 0.2
CBCP: 5099
Lumens: 328
Watts: 11
Efficacy (lm/w): 29.8
CCT: 2990
Cutoff: 50°

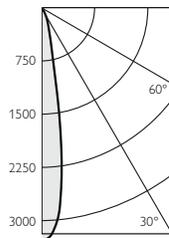
Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	204	1.0'
6'	142	1.2'
7'	104	1.4'
8'	80	1.6'
9'	63	1.8'

Candela Table

Angle	Intensity	Lumens
0	5099	
5	2829	118
15	290	83
25	61	45
35	14	9
45	7	6
55	3	3
65	1	1

Candela Plot



Fixture: C2L04DL30K17R1
Reflector: C2LDLCCDP
Accessory: none
Beam Angle: 17°
Spacing Ratio: 0.3
CBCP: 3282
Lumens: 412
Watts: 11
Efficacy (lm/w): 37.3
CCT: 2979
Cutoff: 50°

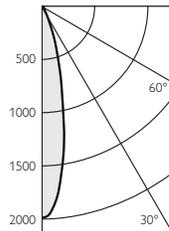
Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	131	1.5'
6'	91	1.8'
7'	67	2.1'
8'	51	2.4'
9'	41	2.7'

Candela Table

Angle	Intensity	Lumens
0	3282	
5	2835	212
15	432	133
25	126	56
35	13	9
45	3	2
55	0	0
65	0	0

Candela Plot



Fixture: C2L04DL30K25R1
Reflector: C2LDLCCDP
Accessory: none
Beam Angle: 25°
Spacing Ratio: 0.4
CBCP: 1995
Lumens: 382
Watts: 10.6
Efficacy (lm/w): 36.0
CCT: 2979
Cutoff: 50°

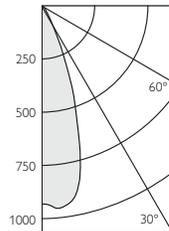
Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	80	2.0'
6'	55	2.4'
7'	41	2.8'
8'	31	3.2'
9'	25	3.6'

Candela Table

Angle	Intensity	Lumens
0	1995	
5	1742	147
15	623	174
25	86	51
35	12	8
45	3	2
55	0	0
65	0	0

Candela Plot



Fixture: C2L04DL30K38R1
Reflector: C2LDLCCDP
Accessory: none
Beam Angle: 38°
Spacing Ratio: 0.6
CBCP: 936
Lumens: 377
Watts: 10.8
Efficacy (lm/w): 34.9
CCT: 2977
Cutoff: 50°

Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	37	3.0'
6'	26	3.6'
7'	19	4.2'
8'	15	4.8'
9'	12	5.4'

Candela Table

Angle	Intensity	Lumens
0	936	
5	959	90
15	668	180
25	167	84
35	28	19
45	4	4
55	0	0
65	0	0

TYPE: DL3

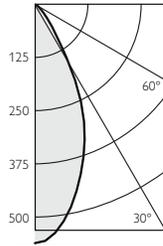
C2L04

Calculite 1.75" Aperture, 400 Lumen LED

Page 5 of 6

Reflector Finish Multipliers: CCD (1.0) WH (0.95) CCZ (0.88 (est.)) BK (tbd) CCD finish is tested. All other finishes calculated.

Candela Plot



Fixture: C2L04DL30K47R1
Reflector: C2LDLCCDP
Accessory: none
Beam Angle: 47°
Spacing Ratio: 0.7
CBCP: 544
Lumens: 331
Watts: 11
Efficacy (lm/w): 30.0
CCT: 2970
Cutoff: 50°

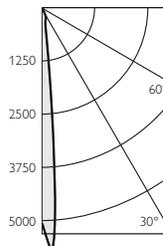
Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	22	3.5'
6'	15	4.2'
7'	11	4.9'
8'	9	5.6'
9'	7	6.3'

Candela Table

Angle	Intensity	Lumens
0	544	
5	523	40
15	401	109
25	247	128
35	73	60
45	10	11
55	2	3
65	1	1

Candela Plot



Fixture: C2L04DL30K12R1
Reflector: C2LDLCCDP
Accessory: CA2DF2 (2° diffusion film)
Beam Angle: 12°
Spacing Ratio: 0.2
CBCP: 4058
Lumens: 325
Watts: 10.7
Efficacy (lm/w): 30.4
CCT: 2990
Cutoff: 50°

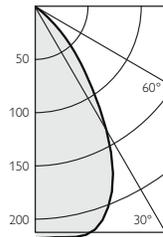
Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	162	1.0'
6'	113	1.2'
7'	83	1.4'
8'	63	1.6'
9'	50	1.8'

Candela Table

Angle	Intensity	Lumens
0	4058	
5	2521	167
15	299	88
25	101	49
35	19	12
45	7	6
55	2	2
65	0	0

Candela Plot



Fixture: C2L04DL30K12R1
Reflector: C2LDLCCDP
Accessory: CA2DF85 (85° diffusion film)
Beam Angle: 66°
Spacing Ratio: 1.0
CBCP: 217
Lumens: 256
Watts: 10.7
Efficacy (lm/w): 23.9
CCT: 2990
Cutoff: 50°

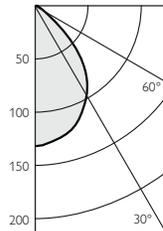
Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	9	5.0'
6'	6	6.0'
7'	4	7.0'
8'	3	8.0'
9'	3	9.0'

Candela Table

Angle	Intensity	Lumens
0	217	
5	217	21
15	216	60
25	172	77
35	93	58
45	38	29
55	7	7
65	2	2

Candela Plot



Fixture: C2L04DL30K12R1
Reflector: C2LDLCCDP
Accessory: CA2OPF (Opal warming/diffusion lens)
Beam Angle: 80°
Spacing Ratio: 1.1
CBCP: 133
Lumens: 190
Watts: 10.7
Efficacy (lm/w): 17.8
CCT: 2840
Cutoff: 50°

Single Unit Data

Ceiling Height	Initial Footcandles	Beam Diameter
5'	5	5.5'
6'	4	6.6'
7'	3	7.7'
8'	2	8.8'
9'	2	9.9'

Candela Table

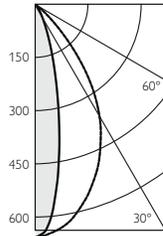
Angle	Intensity	Lumens
0	133	
5	130	13
15	123	34
25	106	49
35	83	51
45	44	33
55	8	9
65	2	2

TYPE: DL3

C2L04

Calculite 1.75" Aperture, 400 Lumen LED

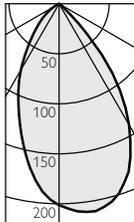
Page 6 of 6

Reflector Finish Multipliers: CCD (1.0) WH (0.95) CCZ (0.88 (est.)) BK (tbd) CCD finish is tested. All other finishes calculated.**Candela Plot**

Fixture: C2L04DL30K17R1
Reflector: C2LDLLSCDDP
 (integral linear diffusion lens)
Accessory: none
Beam Angle: 63° × 20°
Spacing Ratio: n/a
CBCP: n/a
Lumens: 314
Watts: 10.7
Efficacy (lm/w): 29.3
CCT: 2979
Cutoff: 75°

Candela Table

Angle	"Intensity (Along)	Intensity (Across)	Lumens
0	660	660	
5	644	574	28
15	562	216	51
25	434	56	42
35	270	14	25
45	83	5	9
55	11	2	2
65	1	1	0

Candela Plot

Fixture: C2L04DL30K17R1
Reflector: C2LLWCCDP
 (integral wall wash lens)
Accessory: none
Beam Angle: 66°
Spacing Ratio: 1.0
CBCP: 217
Lumens: 256
Watts: 10.7
Efficacy (lm/w): 23.9
CCT: 2990
Cutoff: 50°

Candela Table

Angle	"Intensity (Along)	Intensity (Across)	Lumens
0	201	201	
5	189	208	9
15	141	205	21
25	96	169	24
35	56	106	19
45	29	24	11
55	12	2	5
65	3	1	1



Philips Lightolier
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 t: (508) 679-8131
 w: www.lightolier.com

C2L04 August 27, 2012

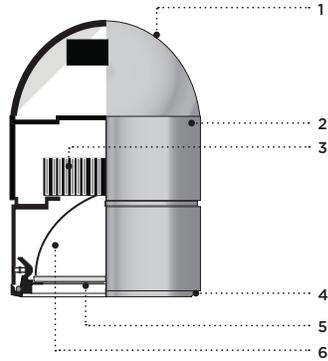
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W1222 SERIES
SYRIOS - LED

TYPE: **CL-1** QUANTITY: PROJECT:

CATALOG NUMBER:	<input type="text"/>								
	FIXTURE	WATTAGE	VOLTAGE	FINISH	OPTION	OPTION	OPTION	OPTION	ACCESSORIE



- 1- Cast aluminum ballast housing.
- 2- Cast aluminum body.
- 3- Cast aluminum LED heat dissipating module.
- 4- Cast aluminum lens frame.
- 5- Clear tempered glass lens.
- 6- Specular aluminum reflector.

W1222T



MATERIALS

Syrios is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%. The cast aluminum round top optical chamber includes a specular aluminum reflector designed for LED light sources to ensure optimal light performance. A cast aluminum lens frame sealed with an embedded silicone gasket is secured with a pressure fastening method, to ensure protection against dust and bug penetration.

ELECTRICAL

LED
DRIVER 120/277V multi volt (50-60HZ) with a minimum starting temperature of -30°C/-22°F. Optional 347V on request.
Output over voltage. Output over current and output short circuit protection with auto-recovery. Over temperature protection (110°C).

LED Standard 4000°K LED platform included. Optional 3000°K and 3500°K available. Removable modular LED platform.

LIFE

51,000hrs $L_{70}B_{50}$ (based on IESNA TM-21 Test Method and LM-80 data).
68,000hrs $L_{70}B_{50}$ (calculated projection from LM-80 data).

FINISH

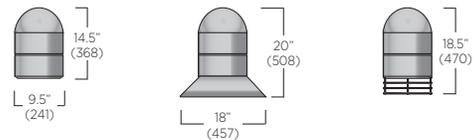
Five-stage preparation process including preheating of cast aluminum parts for air extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

MOUNTING

Maximum weight: 18lbs (8.2kg)
Designed as a light module adaptable to different mounting arrangements. (Please refer to mounting section page for appropriate mounting selection)

CERTIFICATION

Tested to UL1598 and CSA 22.2 #250. ETL listed wet location.
Photometry tested per IES LM-79-08 / IES LM80 test report.
CE certification on request.
Rated IP65.



W1222
EPA: 0.66

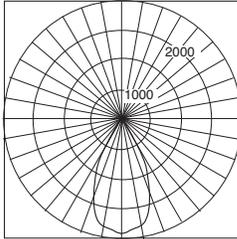
W1222S
EPA: 0.87

W1222L
EPA: 0.72

W1222 SERIES

SYRIOS - LED

TYPICAL PHOTOMETRY SUMMARY



Descriptive Information
 Total Lms: 1597 Lumens
 Total Input Watts: 28 W
 Source: LED
 Total efficiency: 58%
 BUG Rating: B2-UO-GO
 Ful cut off
 CCT: 4000°K

W1222-L1W30

Outdoor report Polar graph
 Maximum Candela = 2427

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINAIRE SELECTION

MODEL#	LED LIGHT SELECTION	VOLTAGE ¹	FINISH										
<input type="checkbox"/> W1222 	<table border="1"> <thead> <tr> <th>SUFFIX</th> <th>INPUT WATTS</th> <th>DELIVERED LUMENS</th> <th>CRI</th> <th>CCT °K</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> L1W30</td> <td>28W</td> <td>1597</td> <td>80</td> <td>4000 °K</td> </tr> </tbody> </table>	SUFFIX	INPUT WATTS	DELIVERED LUMENS	CRI	CCT °K	<input type="checkbox"/> L1W30	28W	1597	80	4000 °K	<input type="checkbox"/> 120V <input checked="" type="checkbox"/> 277V Optional <input type="checkbox"/> 347V	STANDARD COLORS <input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input checked="" type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> GNT Forest green OPTIONAL COLORS <input type="checkbox"/> CS Custom color <input type="checkbox"/> RAL RAL# color (Refer to color chart)
SUFFIX	INPUT WATTS	DELIVERED LUMENS	CRI	CCT °K									
<input type="checkbox"/> L1W30	28W	1597	80	4000 °K									
<input type="checkbox"/> W1222S 													
<input checked="" type="checkbox"/> W1222L 													

OPTIONS

ELECTRICAL	MOUNTING	ACCESSORIES
<input type="checkbox"/> FS Fuse ² <input type="checkbox"/> PH Photocell ² <input type="checkbox"/> 347L 347V input power driver Alternate CCT °K LED <input type="checkbox"/> K3 3000°K CCT LED <input type="checkbox"/> K35 3500°K CCT LED	<input type="checkbox"/> ACA Pole mounted attachment with 45° support <input type="checkbox"/> ACW Wall mounted attachment with 45° support <input type="checkbox"/> APC Pole mounted straight arm attachment <input type="checkbox"/> APS Post-top shepherd arm attachment <input checked="" type="checkbox"/> CAT Catenary suspension attachment <input type="checkbox"/> W Wall mounted shepherd arm attachment <input type="checkbox"/> T Wall mounted straight arm attachment <input type="checkbox"/> S Stem mount	<input type="checkbox"/> SPG Silver braided power cord with adjustable suspension cable. 36" in length (other lengths on request) <input type="checkbox"/> SC Safety cable extends 18" over mounting plate (with stem mounting only)

NOTES

- 1- Luminaires are factory prewired for 120V (if no voltage is specified.) For other voltages, please specify with catalog number, or consult factory.
- 2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)



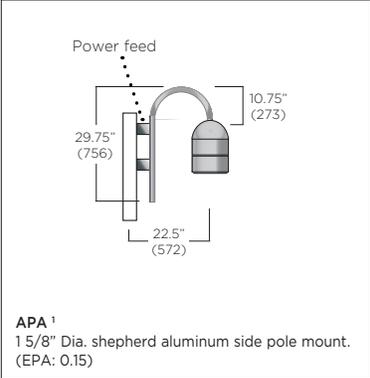
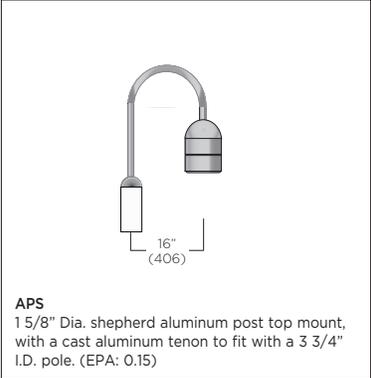
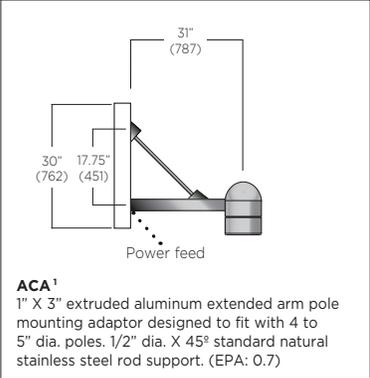
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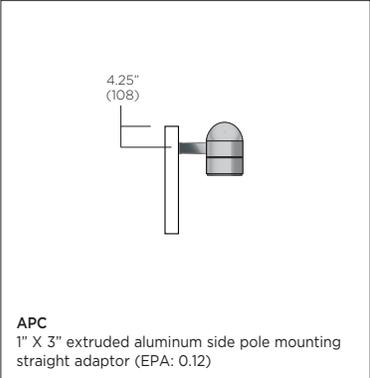
Luminaires may be altered for design improvement or discontinued without prior notice. Unless specified, lamps are not included with luminaires.

W1222 SERIES
SYRIOS - LED

POLE MOUNT



NOTE 1: PCA Pole with ACA and APA attachments require a 30" (762) tenon extension over pole nominal height. Factory installed.



MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-----	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-----	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-----	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-----	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-----	PTA20	PSB20	20 Ft. (6,0 M)
-----	-----	-----	PTA25	-----	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4"= 100mm Ø5"= 127mm



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W1222 SERIES
SYRIOS - LED

WALL MOUNT

ACW
1" X 3" extruded aluminum extended arm wall mounting adaptor with cast aluminum covers and galvanized steel mounting plates. 1/2" dia. X 45° standard natural stainless steel rod support.

Mounting

Power feed

W
1 5/8" Dia. shepherd aluminum arm wall mount, with a cast aluminum wall cover and galvanized steel mounting plate.

Mounting

Power feed

T
1" X 3" extruded aluminum wall mounting straight adaptor with cast aluminum cover and galvanized steel mounting plate.

Mounting

Power feed

CATENARY SUSPENSION

CAT
Attachment includes a sealed cast aluminum connection box with (2) 1/2" sealed connectors for armored power cable (by Others). Ready to accept 1/4" stainless steel suspension cable. (By others)

CEILING PENDANT MOUNT

S
Standard 36" lg. (914) X 45° swivel ceiling mount Ø 5/8" (16) aluminum suspension stem.
Luminaire top swivel adaptor allows to cut stem to length on site.
(Mounts over a standard 4" octagonal box with 3 1/2" C/C holes)

SPG
4/18 Silver braided power cable, with stainless steel adjustable cable.
Standard 36" lg. (914). Other lengths available on request.

STM (Optional)
Factory cut to size length: Please add desired length to STM option.



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