Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

Exelia Gen5 LED

Order Code: _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____

	Series	**EXRL** Exelia Gen5 LED						
_____	Nominal Overall Ht.	**08** 8 ft	**09** 9 ft	**10** 10 ft	**11** 11 ft	**12** 12 ft	**13** 13 ft	**14** 14 ft
		15 15 ft	**16** 16 ft	**17** 17 ft	**18** 18 ft	**19** 19 ft	**20** 20 ft	
_____	Optic	**R1** Type I	**R2** Type II	**R3** Type III	**R3W** Type III (Wide)	**R4** Type IV	**R5R** Type V (Round)	**R5S** Type V (Square)	**R5Q** Type V (Rectangular)
_____	Light Engine	**5G350** nominal 33W	**5G530** nominal 48W	**5G700** nominal 64W	**5G105** nominal 97W	**5G140** nominal 126W		
_____	CCT	**27[1]*** 2700K	**30[1]** 3000K	**35*** 3000K	**40** 4000K	**50*** 4000K		[1]2700K and 3000K are IDA-Approved *Consult factory for lead time
_____	Finish	**WH** White	**BK** Black	**BL** Semi-Matte Black	**BZ** Bronze	**SV** Silver	**SP** Specify Premium Color	
_____	Voltage	**UNV** 120-277V	**120** 120V	**208** 208V	**240** 240V	**277** 277V	**347[2,3]** 347V	**480[2,3]** 480V	[2]Not available with HL50 [3]Requires step-down transformer
_____	Options	**DM[7]** Dimming (0-10V)	**HL50[4,7]** Hi-Lo Switching Low Output 50%	**HS[5]** House Side Shield	**REC[9,10]** 120V GFCI Receptacle with weatherproof cover	**REC2[9,10]** 120V GFCI Receptacle with padlockable in-use cover	**REC3[9,10]** USB & Duplex Receptacle with weatherproof cover	**REC4[9,10]** USB & Duplex Receptacle with weatherproof padlockable in-use cover	
		PC[7] Photocell	**VI[8]** Vibration Dampener (consult factory)	**MS[6]** Motion Sensor					

[4]120V, 240V and 277V only
[5]Type I, II, III and IV only
[6]See page 5 for details
[7]DM, HLXX, or MS only. Cannot be combined. PC or MS only. Cannot be combined.
[8]Recommended depending on local site conditions regarding wind vibrations
[9]120V only
[10]See page 7 for details

Product Modifications

Please list modification requirements for review by factory:

Approvals

Date:

BUY AMERICAN NRTL WET 5 YEAR LED WARRANTY UNION MADE IBEW LOCAL 363 ASTM & PCI FINISH RoHS COMPLIANT IK10 IP65

EXRL
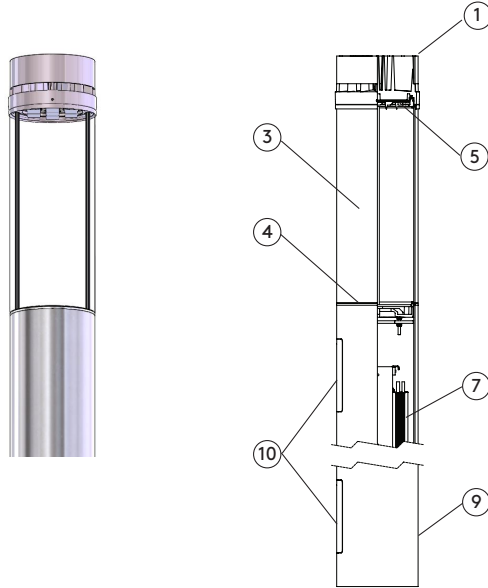
Specifications

1. Luminaire Cover / External Heat Sink - Low copper, marine-grade aluminum die cast cover, with shroud for smooth crisp form to reflect and complement the column design. Designed for optimal heat dissipation even in high temperature environments.

2. Gasketing - (not shown) Continuous one piece gaskets made from UV and ozone resistant silicone. Molded gaskets ensure IP65 rating, dust, and insect control throughout the luminaire head.

3. Shielding - Clear, impact resistant, UV stabilized polycarbonate cylinder creates optical chamber, minimum wall thickness 0.118" (3mm). IK10 rated.

4. Column Fitter - Low copper, marine-grade aluminum die-cast fitter, with built-in gasketing ridges, for smooth transition to column.

5. LED Array - High Flux LEDs mounted to metal core PCB and attached to external heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 97.5% at 50,000 hours. L70 calculated greater than 100,000 hours.

6. LED Optics - (not shown) Proprietary technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distributions types I, II, III & IV.

7. LED Driver - LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside the column and accessible through the upper hand hole.

8. Surge Protector - (not shown) Designed to protect luminaire from electrical surge (20kA).

9. Column Body - 200mm extruded smooth marine-grade aluminium, minimum wall thickness 0.118" (3mm).

10. Access Doors - Upper and lower 4" x 7" (76mm x 178mm) hand holes provided for in-field column assembly and maintenance. Flush cover and stainless steel tamper-resistant hardware included.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ), Semi-Matte Black (BL), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide..

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Exelia LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Tested to NRTL Wet Location and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C (77°F) ambient temperature.
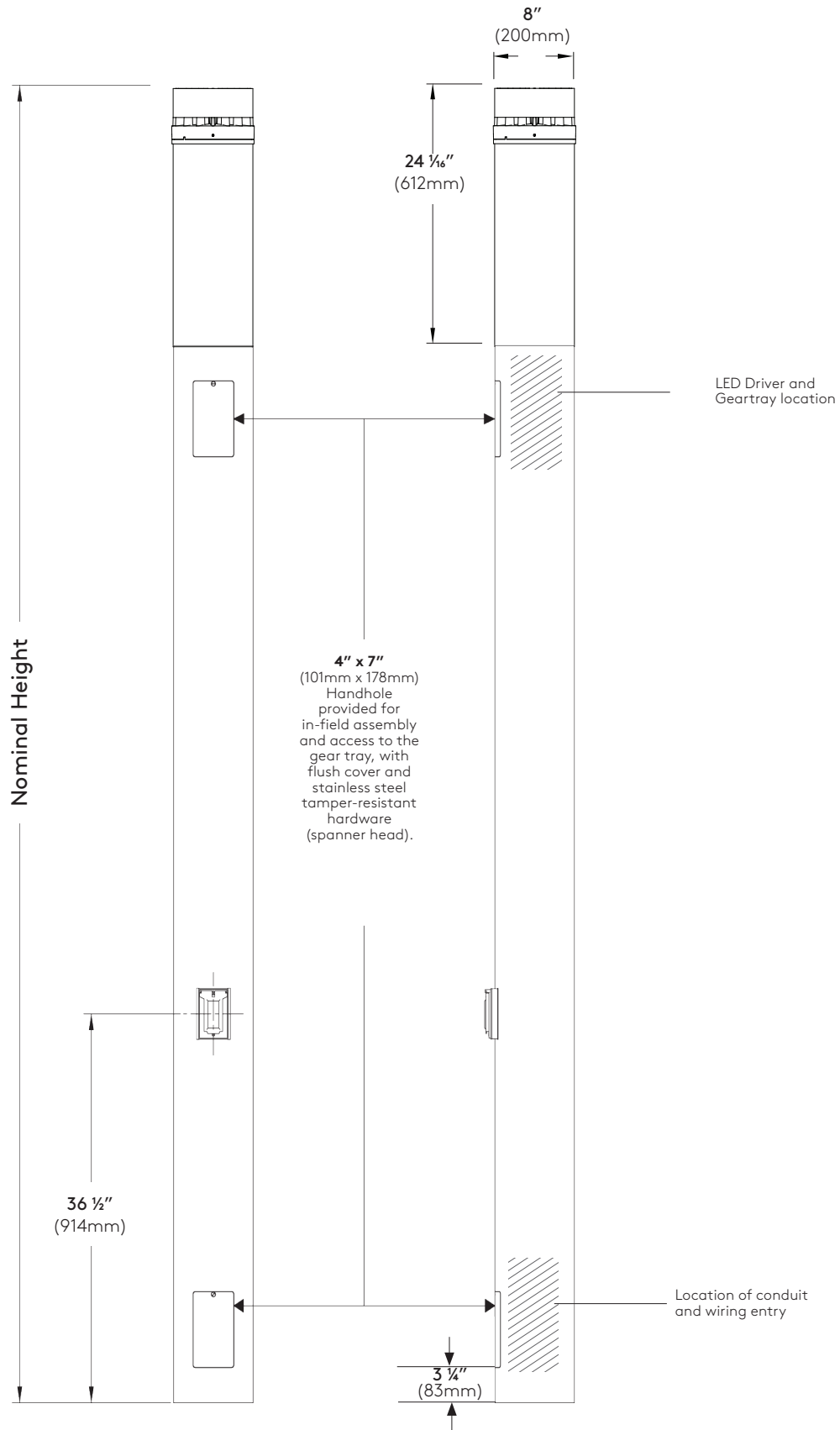
NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

Ambient Temperature Chart (standard)	
Minimum	**Maximum**
-40° C (-40° F)	45° C (113° F)

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Page 2 of 9
(Rev. 08/2022)
EXRL_ss_6.1

Exelia LED

Mounting Information
EXRL

Maximum weight: 80lbs

8"
(200mm)

24 ¹⁄₁₆"
(612mm)

LED Driver and
Geartray location

Nominal Height

4" x 7"
(101mm x 178mm)
Handhole
provided for
in-field assembly
and access to the
gear tray, with
flush cover and
stainless steel
tamper-resistant
hardware
(spanner head).

36 ½"
(914mm)

Location of conduit
and wiring entry

3 ¼"
(83mm)

selux

Mounting Information

EXRL Anchor Bolt Circle

Use caution when setting anchor bolts. Bolts must be
vertically straight and centered on dimensions shown

⌀7 ⁷/₈" (200mm) Bolt Circle

3 ¹¹/₁₆"
(94mm)

Hand hole Location

⌀3 ³/₈"
(86mm)
Conduit
Opening

3 ¹¹/₁₆"
(94mm)

⌀5³/₁₆"
(132mm)
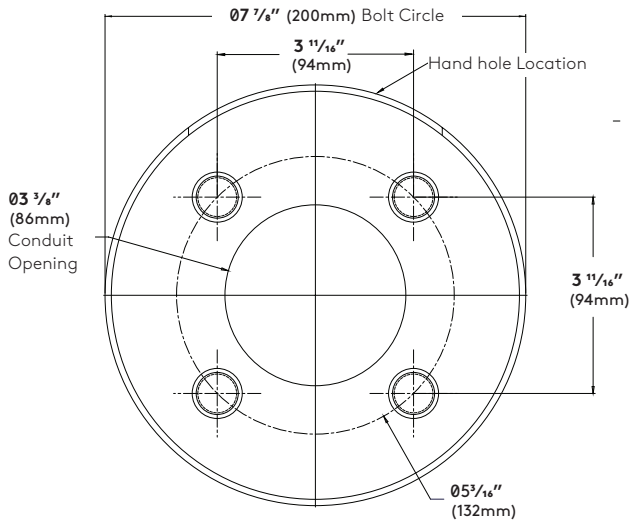
Note: Adequate drainage must be provided in concrete foundation.

EXRL Anchor Bolt Detail

¾" - 10
Galvanized
Heavy Hex Nut

¾" I.D. Galvanized
Flat Washer

¾"-10 Galvanized
Heavy Nut

3 ¼"
(87mm)

¹/₁₆"
Clearance
for Drainage

Conduit by others

(4)¾" - 10 x 17"
Galvanized Anchor Bolts

Concrete footing designed &
supplied by others.
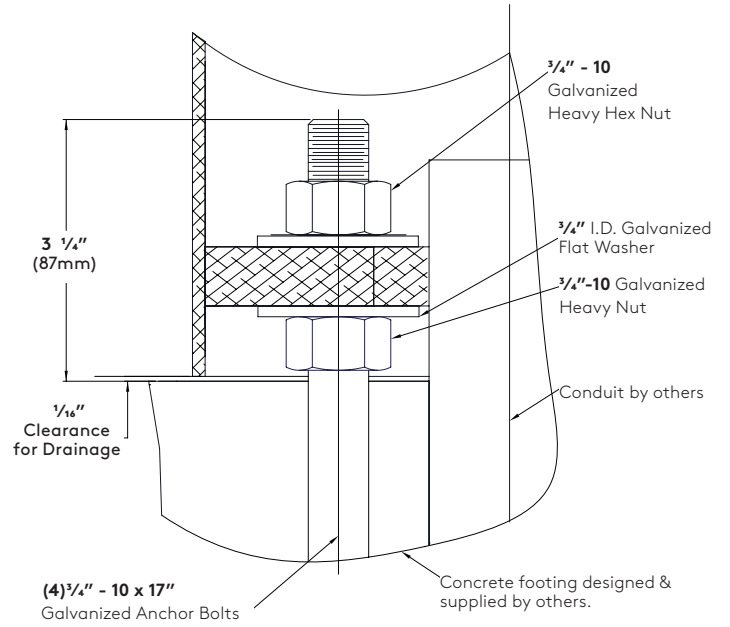
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Round Column Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match column finish.

Series	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	**00** 0° Clockwise from Hand Hole **09** 90° Clockwise from Hand Hole **18** 180° Clockwise from Hand Hole **27** 270° Clockwise from Hand Hole	**D0** (Off) **D1** (1V=10%) **D3** (3V=30%) **D5** (5V=50%)	**Y** Yes **N** No	**UNV** (100-347VAC single phase or 208/230/480VAC phase-to-phase)

Factory Defaults:
Delay to Dim: 5 minutes
Delay to Off: 1 hour
Sensitivity: Max
Custom Programming: Consult Factory

1'-6"
(457.2mm)

Nominal Column Height

General column drawing for example only
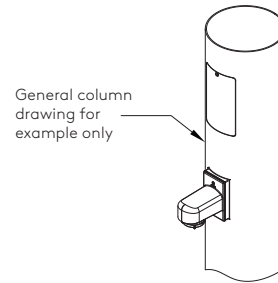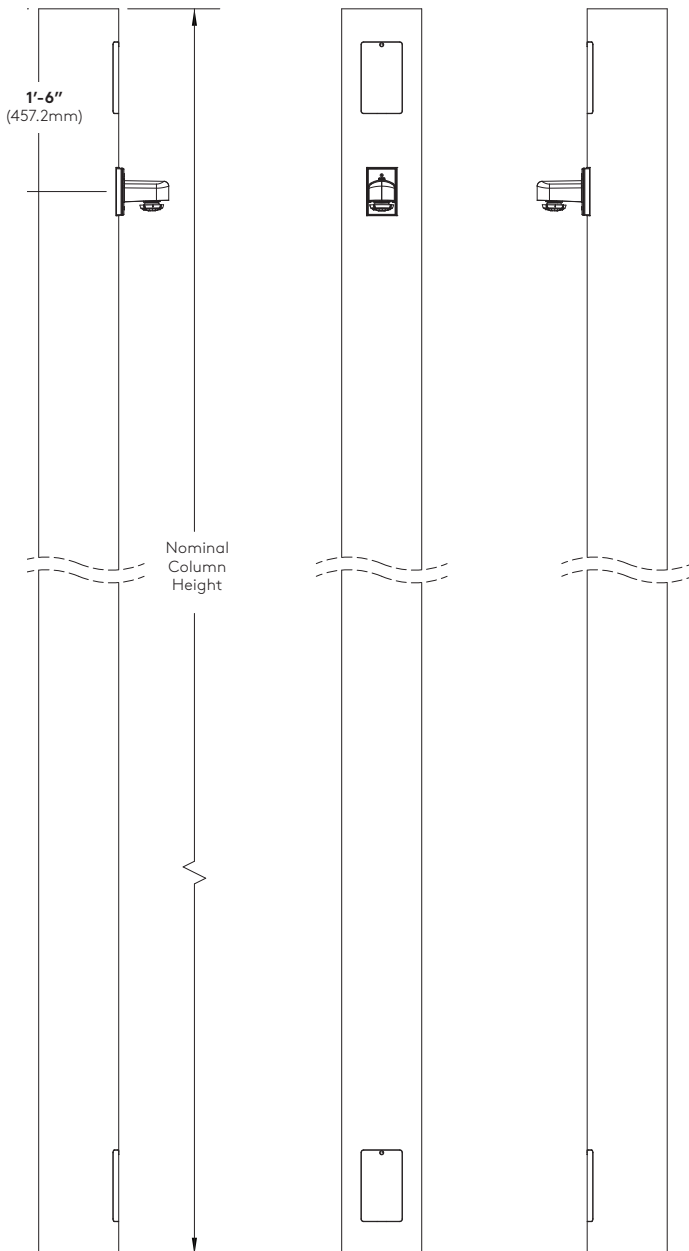
Sensor angular orientation from hand hole 0°
90° increments clockwise around pole (Type 00, 09, 18, 27)

Type 09 (90°)

Hand Hole Location Type 00 (0°)

Type 18 (180°)

Type 27 (270°)

Top View
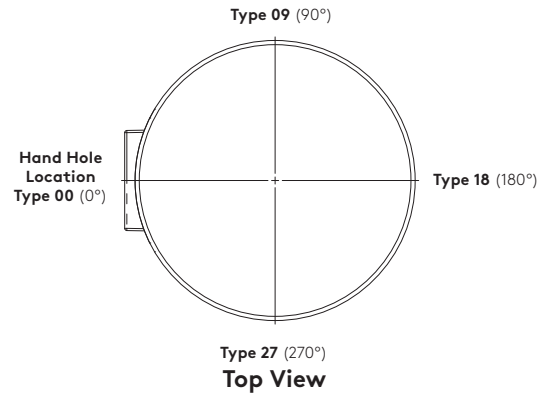
Motion Sensor Features

• Customize programming using smartphone application (Refer to the FSP-321 at www.wattstopper.com)

• 5 Year Warranty

• 100% Digital PIR Detection, excellent RF Immunity

• 270° coverage pattern

• IP66 Rated for outdoor applications

• Made for LED light source

• Adjustable time delays, max/min dim levels, and ramp rates

• Suitable for Title 24 applications

(For coverage details refer to wattstopper FSP-321 spec sheet at www.wattstopper.com)

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Page 5 of 9
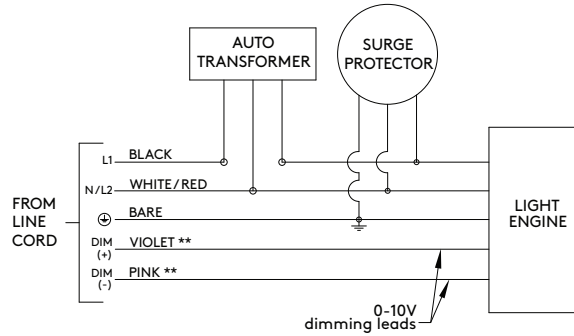(Rev. 08/2022)
EXRL_ss_6.1

Wiring Diagrams

Standard Wiring (120V-277V)
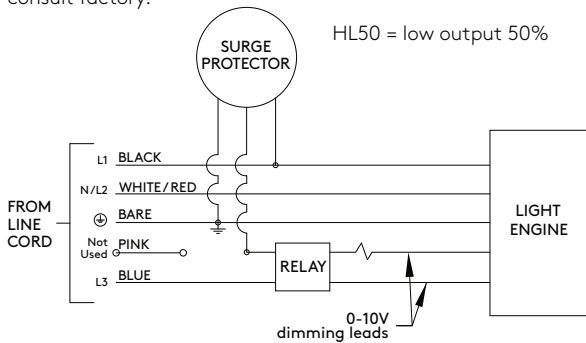**When dimming is not required cap dimming wires.
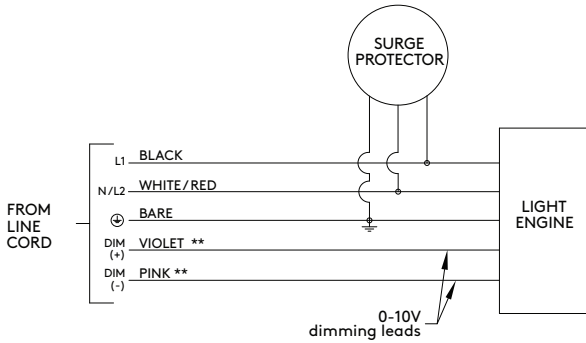
Standard Wiring (347/480V with Step-down Transformer)
**When dimming is not required cap dimming wires.
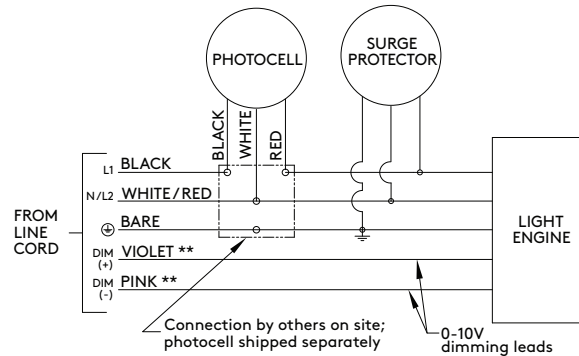

Hi-Lo Switching Option (HL) Wiring HL50 Only
120V, 240V, 277V. When blue is energized, light output will be at "Lo" level. Specify low-level by using the level listed below For other combinations, consult factory.
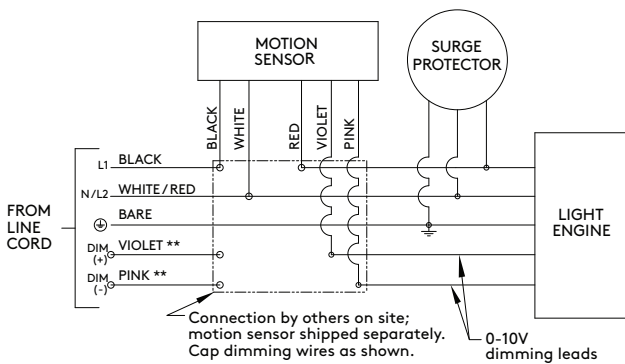
HL50 = low output 50%

Photocell Option (PCT) Wiring
**When dimming is not required cap dimming wires.

Motion Sensor Option (MS) Wiring (120-480V)

Wire Designation Table		
Source Voltage (VAC)	**Wire Color**	**Wire Designation**
120V, 277V, or 347V	Black	L1
	White	Neutral
208V, 240V, or 480V	Black	L1
	Red	L2
UNV (120V-277V)	Black	L1
	White	Neutral (120/277V) or L2 (208/240V)

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Page 6 of 9
(Rev. 08/2022)
EXRL_ss_6.1

Optional Accessories

![selux logo]

Photo Cell (PC) - Without (MS) Option – Button type photocell mounted in modified upper access door. Photocell option has integrated visor to prevent false start/stop cycle.
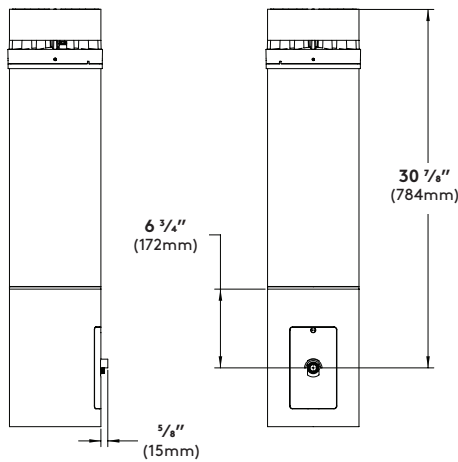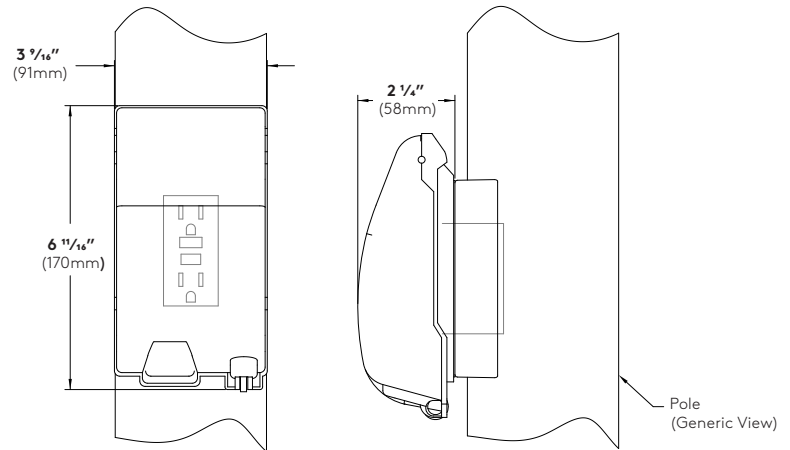

REC and REC3
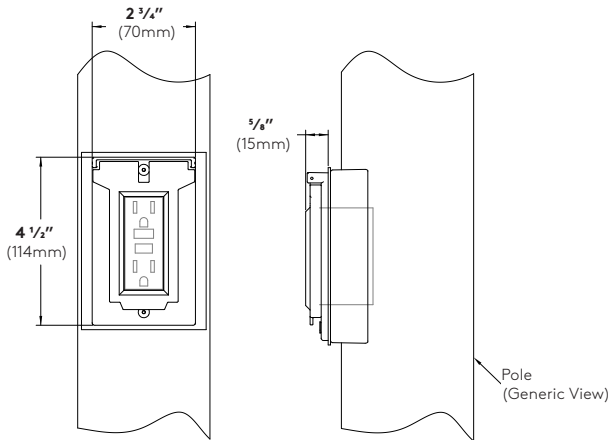
Cover shown in the closed position

REC2 and REC4

Cover shown in the closed position

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC3) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC3 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC4) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC4 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

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Page 7 of 9
(Rev. 08/2022)
EXRL_ss_6.1

Photometry

EXRL / R1 / 3000K CCT

Catalog #: EXRL-X-R1-5G140-30-XX-UNV
Delivered Lumens: 9502
Input Watts: 126.3W
Efficacy: 75 lm/W
CRI: 81.7
Maximum candela: 5295.906 at 65° from vertical.
IES classification: Type II
Bug Rating: B2-U0-G2
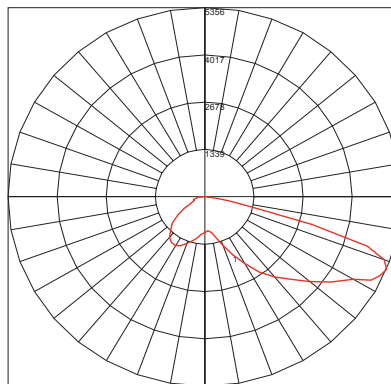Power Factor: 0.996
Total Harmonic Distortion: 5.50%
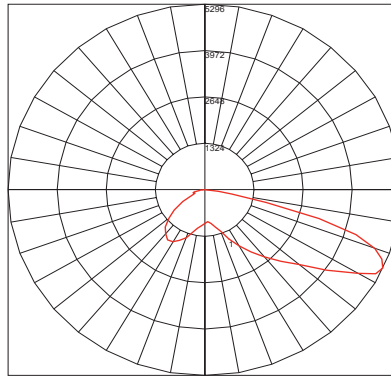
Maximum Candela = 5295.906   Located At Horizontal Angle = 75, Vertical Angle = 65
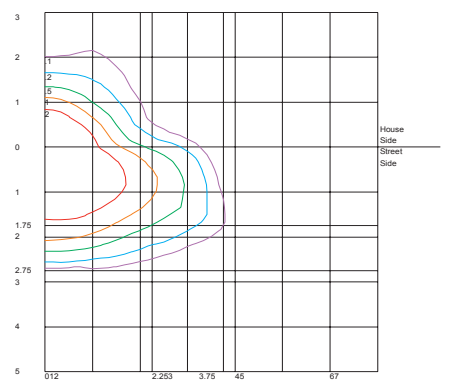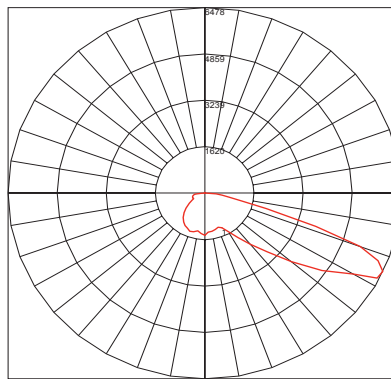# 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
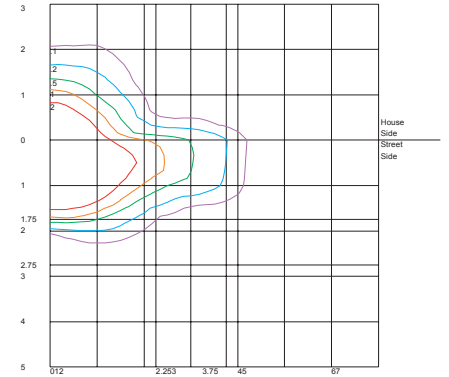
Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

EXRL / R2 / 3000K CCT

Catalog #: EXRL-X-R2-5G140-30-XX-UNV
Delivered Lumens: 9502
Input Watts: 126.6W
Efficacy: 75 lm/W
CRI: 81.7
Maximum candela: 5356.06 at 67.5° from vertical.
IES classification: Type III
Bug Rating: B2-U0-G3
Power Factor: 0.996
Total Harmonic Distortion: 5.50%

Maximum Candela = 5356.06   Located At Horizontal Angle = 65, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)
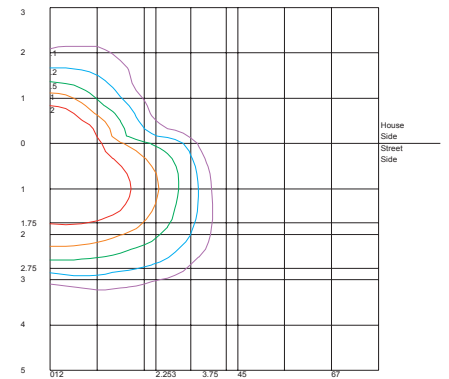
Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

EXRL / R3 / 3000K CCT

Catalog #: EXRL-X-R3-5G140-30-XX-UNV
Delivered Lumens: 9502
Input Watts: 126.3W
Efficacy: 75 lm/W
CRI: 81.7
Maximum candela: 6478.105 at 65° from vertical.
IES classification: Type III
Bug Rating: B2-U0-G2
Power Factor: 0.996
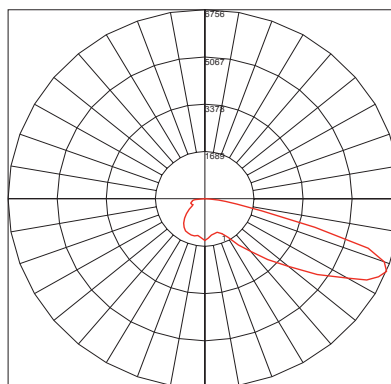Total Harmonic Distortion: 5.50%

Maximum Candela = 6478.105   Located At Horizontal Angle = 45, Vertical Angle = 65
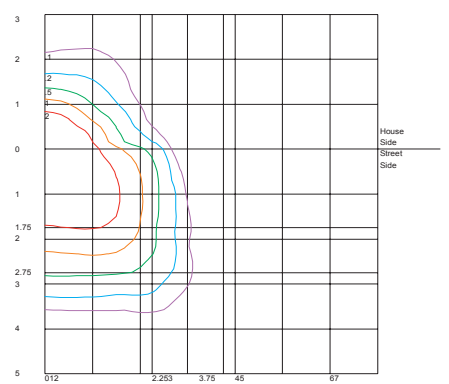# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

EXRL / R4 / 3000K CCT

Catalog #: EXRL-X-R4-5G140-30-XX-UNV
Delivered Lumens: 9502
Input Watts: 126.3W
Efficacy: 75 lm/W
CRI: 81.7
Maximum candela: 6755.814 at 67.5° from vertical.
IES classification: Type IV
Bug Rating: B2-U0-G2
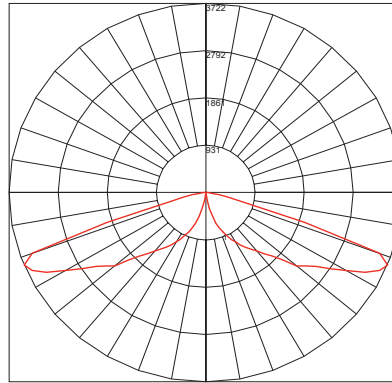Power Factor: 0.996
Total Harmonic Distortion: 5.50%

Maximum Candela = 6755.814   Located At Horizontal Angle = 35, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
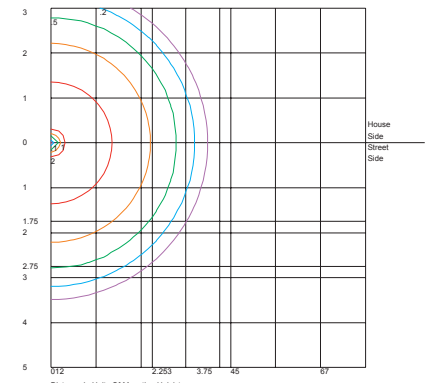
Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

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Page 8 of 9
(Rev. 08/2022)
EXRL_ss_6.1

Photometry

EXRL / R5R / 3000K CCT

Catalog #: EXRL-X-R5R-5G140-30-XX-UNV
Delivered Lumens: 10032
Input Watts: 126.3W
Efficacy: 79 lm/W
CRI: 81.7
Maximum candela: 3722 at 67.5° from vertical.
IES classification: Type V
Bug rating: B3-U0-G2
Power Factor: 0.996
Total Harmonic Distortion: 5.50%

Maximum Candela = 3722.3   Located At Horizontal Angle = 0, Vertical Angle = 67.5
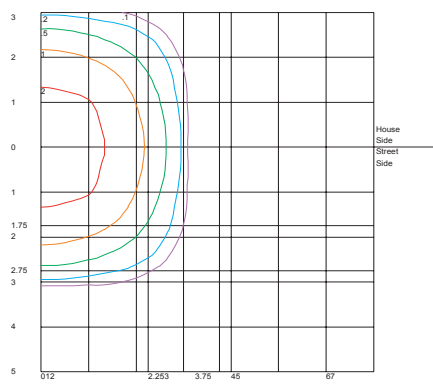# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

EXRL / R5S / 3000K CCT

Catalog #: EXRL-X-R5S-5G140-30-XX-UNV
Delivered Lumens: 10032
Input Watts: 126.3W
Efficacy: 79 lm/W
CRI: 81.7
Maximum candela: 4036.873 at 65° from vertical.
IES classification: Type VS
Bug Rating: B3-U0-G2
Power Factor: 0.996
Total Harmonic Distortion: 5.50%
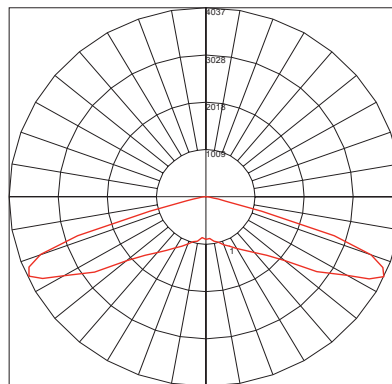
Maximum Candela = 4036.873   Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height