

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P285871

Luminaire Tested: **PRV-XL-C100-D-UNV-T5-BZ**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-11)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C100-D-UNV-T5-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE V OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33450 lumens  
Efficiency: N/A  
Efficacy: 154.1 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

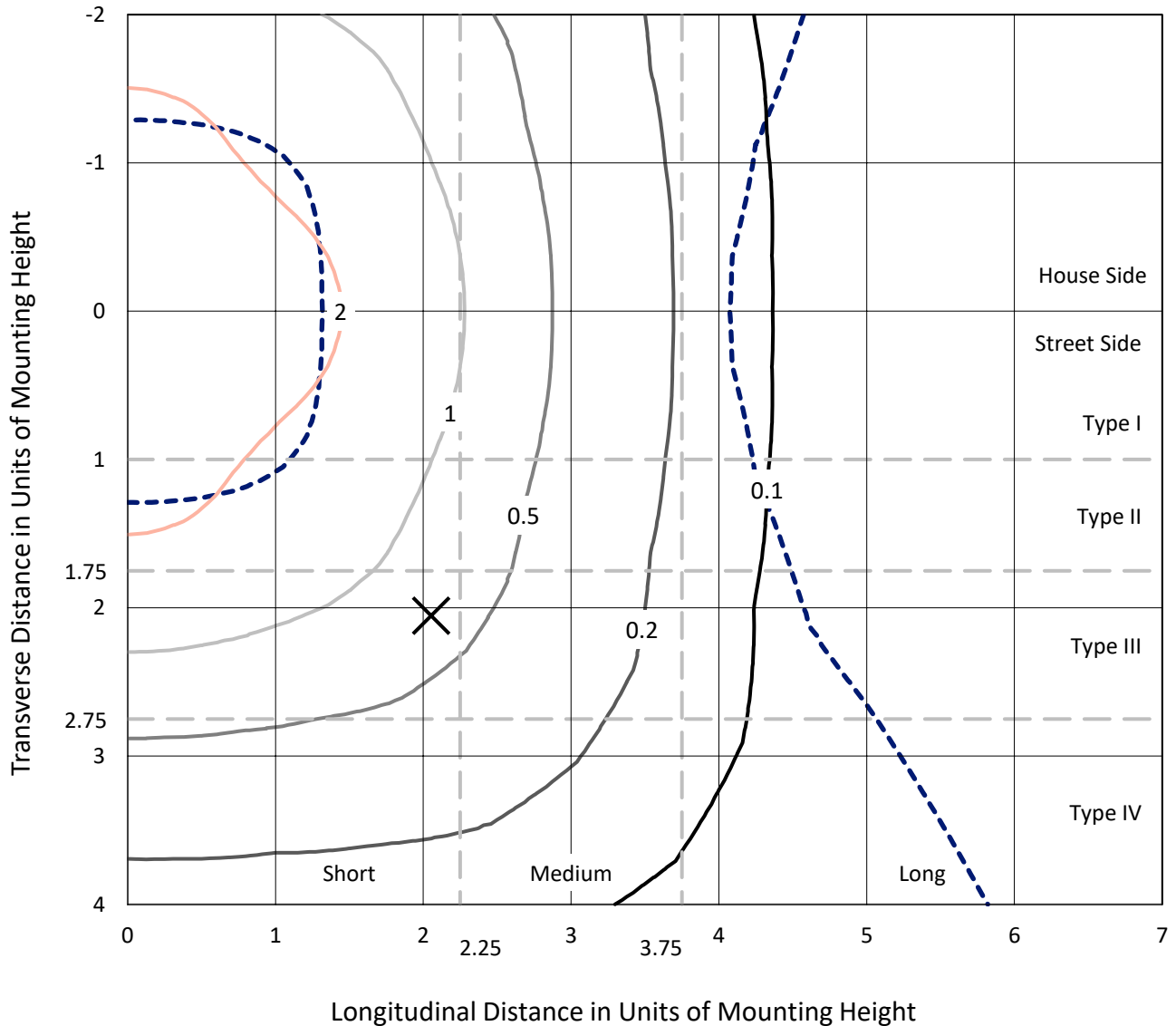
Input Watts (W): 217  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

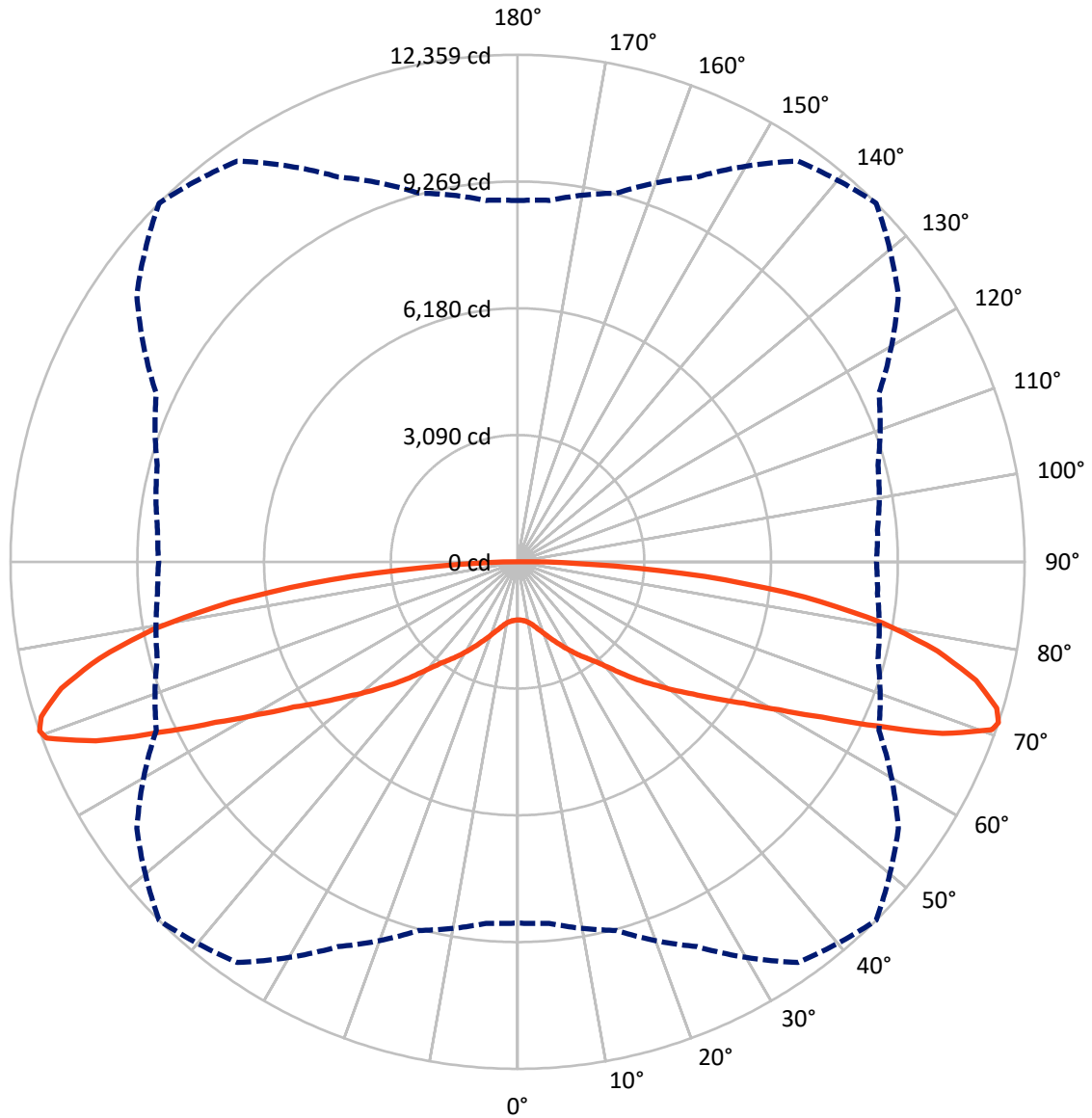
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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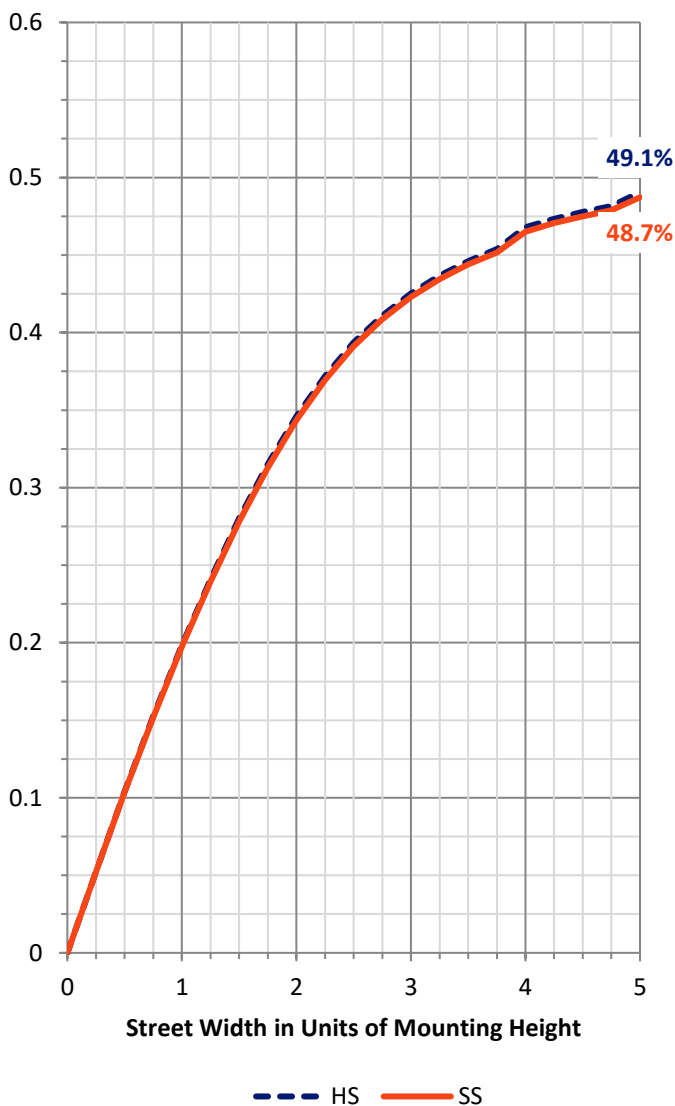
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16725.0	0.0	16725.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16725.0	0.0	16725.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33450.0	0.0	33450.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.8	0.4
10°-20°	467.9	1.4
20°-30°	984.0	2.9
30°-40°	1812.4	5.4
40°-50°	3327.5	9.9
50°-60°	5799.5	17.3
60°-70°	9371.8	28.0
70°-80°	9030.4	27.0
80°-90°	2517.6	7.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33450.0	100.0
0°-180°	33450.0	100.0

**Coefficient of Utilization**

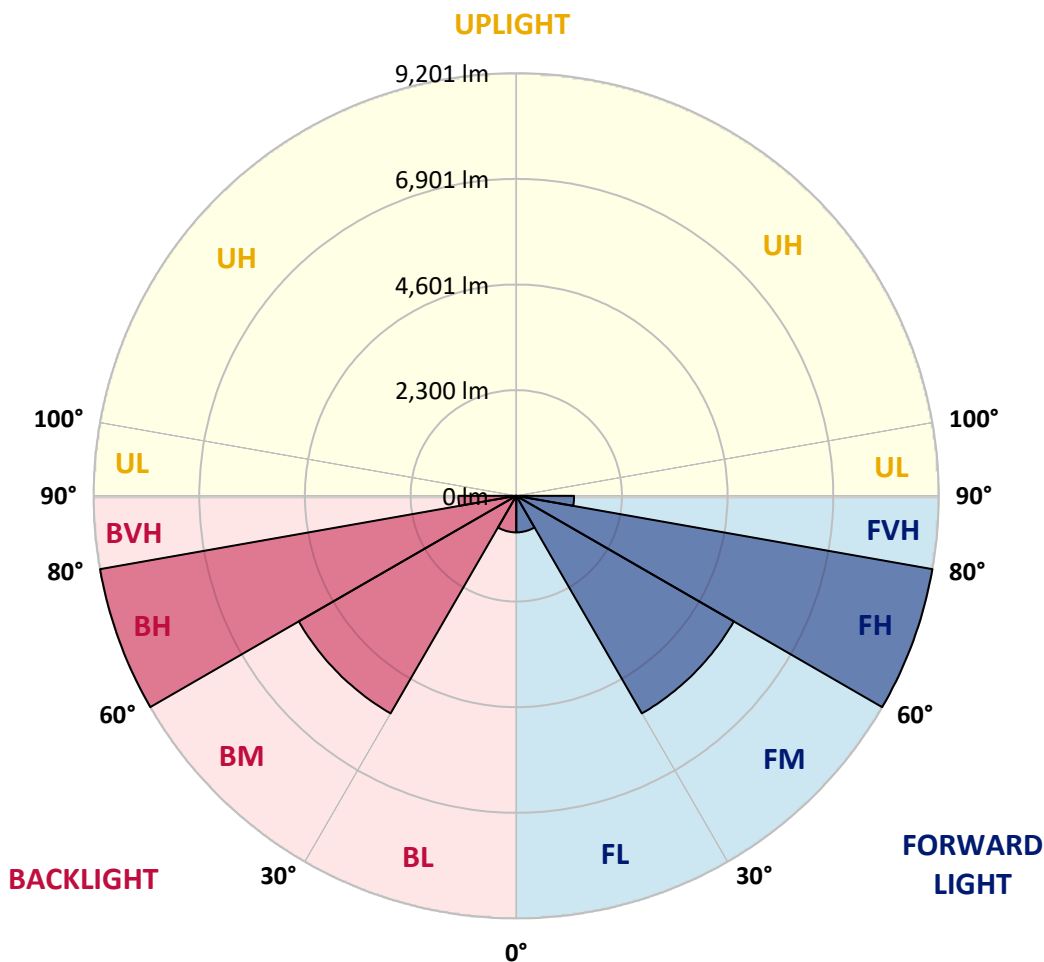


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.4	2.4			
FM (30°-60°)	5469.7	16.4			
FH (60°-80°)	9201.1	27.5			G4/12000
FVH (80°-90°)	1258.8	3.8			G5
BL (0°-30°)	795.4	2.4	B2/1000		
BM (30°-60°)	5469.7	16.4	B4/8500		
BH (60°-80°)	9201.1	27.5	B5		G4/12000
BVH (80°-90°)	1258.8	3.8			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1
2.5°	1421.1	1428.2	1424.6	1422.3	1423.4	1422.3	1419.9	1417.5	1415.1	1413.9	1413.9
5°	1431.8	1436.5	1435.3	1434.1	1435.3	1437.7	1436.5	1435.3	1431.8	1429.4	1429.4
7.5°	1457.9	1459.1	1460.3	1459.1	1459.1	1462.7	1460.3	1459.1	1452.0	1450.8	1448.4
10°	1498.4	1497.2	1500.7	1501.9	1501.9	1504.3	1497.2	1492.4	1479.3	1478.1	1475.8
12.5°	1545.9	1545.9	1550.7	1556.6	1561.4	1566.1	1553.1	1542.4	1524.5	1517.4	1518.6
15°	1611.3	1610.1	1616.1	1629.2	1642.2	1651.8	1632.7	1614.9	1591.1	1581.6	1584.0
17.5°	1697.0	1695.8	1705.3	1720.7	1742.1	1756.4	1730.2	1704.1	1682.7	1670.8	1670.8
20°	1801.6	1802.8	1809.9	1830.1	1857.5	1875.3	1842.0	1807.5	1792.1	1781.4	1779.0
22.5°	1924.1	1933.6	1930.0	1953.8	1990.7	2010.9	1971.7	1933.6	1919.3	1912.2	1909.8
25°	2069.2	2078.7	2069.2	2092.9	2139.3	2159.5	2119.1	2077.5	2070.4	2065.6	2063.2
27.5°	2230.9	2232.1	2229.7	2242.8	2305.8	2326.0	2272.5	2235.6	2239.2	2236.8	2233.3
30°	2406.9	2405.7	2403.3	2399.8	2479.4	2504.4	2444.9	2415.2	2427.1	2420.0	2420.0
32.5°	2603.1	2599.5	2586.5	2594.8	2642.3	2691.1	2620.9	2603.1	2637.6	2632.8	2637.6
35°	2818.3	2817.2	2792.2	2800.5	2833.8	2877.8	2824.3	2816.0	2868.3	2880.2	2887.3
37.5°	3063.3	3064.5	3030.0	3025.3	3052.6	3084.7	3064.5	3085.9	3163.2	3203.6	3192.9
40°	3380.8	3376.1	3329.7	3291.6	3320.2	3361.8	3383.2	3442.7	3561.6	3622.2	3628.2
42.5°	3810.1	3798.2	3744.7	3671.0	3685.3	3712.6	3776.8	3880.3	4023.0	4080.1	4063.4
45°	4319.1	4297.7	4219.2	4134.8	4089.6	4099.1	4159.7	4288.2	4459.4	4535.5	4548.6
47.5°	4894.6	4869.7	4751.9	4592.6	4483.2	4471.3	4531.9	4704.4	4912.5	5005.2	5000.5
50°	5542.7	5511.8	5387.0	5142.0	4938.6	4904.2	4945.8	5159.8	5403.6	5528.5	5521.3
52.5°	6250.3	6206.3	6069.5	5753.2	5483.3	5348.9	5409.6	5666.4	5915.0	6075.5	6081.4
55°	6970.9	6961.4	6785.4	6466.7	6098.1	5899.5	5941.1	6217.0	6523.8	6686.7	6679.6
57.5°	7697.5	7672.6	7533.4	7199.3	6830.6	6498.8	6544.0	6846.1	7160.0	7331.3	7325.3
60°	8407.5	8373.0	8264.8	8015.0	7704.7	7320.6	7292.0	7581.0	7856.9	8016.2	8002.0
62.5°	9144.7	9143.6	9055.6	8860.5	8695.2	8336.1	8197.0	8397.9	8641.7	8791.6	8783.2
65°	9805.9	9810.7	9822.6	9828.5	9845.2	9654.9	9342.2	9314.8	9495.6	9584.7	9559.8
67.5°	9817.8	9861.8	10069.9	10499.2	11092.6	11168.7	10557.5	9998.6	9791.7	9684.6	9671.6
70°	9166.2	9219.7	9616.8	10490.9	11840.6	12261.6	11241.3	9896.3	9380.2	9107.9	9055.6
71°	8804.6	8843.9	9301.7	10349.4	11921.5	12359.1	11330.4	9716.7	9092.4	8807.0	8747.6
72.5°	8163.7	8199.4	8782.0	9972.4	11808.5	12210.4	11242.5	9371.9	8584.6	8235.0	8167.2
75°	6912.7	7006.6	7575.0	9050.8	11136.6	11543.3	10643.1	8457.4	7474.0	6960.2	6910.3
77.5°	5149.1	5312.0	6001.8	7636.9	9921.3	10461.2	9533.6	7117.2	5976.8	5411.9	5350.1
80°	2907.5	3072.8	4017.0	5790.1	8313.5	9022.3	7917.5	5401.2	4247.7	3530.7	3452.2
82.5°	1076.2	1041.7	1930.0	3646.0	6192.0	7055.4	5794.8	3521.1	2337.9	1620.8	1570.9
85°	237.8	356.8	851.4	1837.3	3907.6	4581.9	3418.9	1775.4	906.2	467.3	436.4
87.5°	65.4	116.5	292.5	770.6	1574.5	1785.0	1289.1	481.6	145.1	57.1	57.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)