

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: P381065

Luminaire Tested: **PRV-XL-PA3B-740-U-5WQ**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3B-740-U-5WQ  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

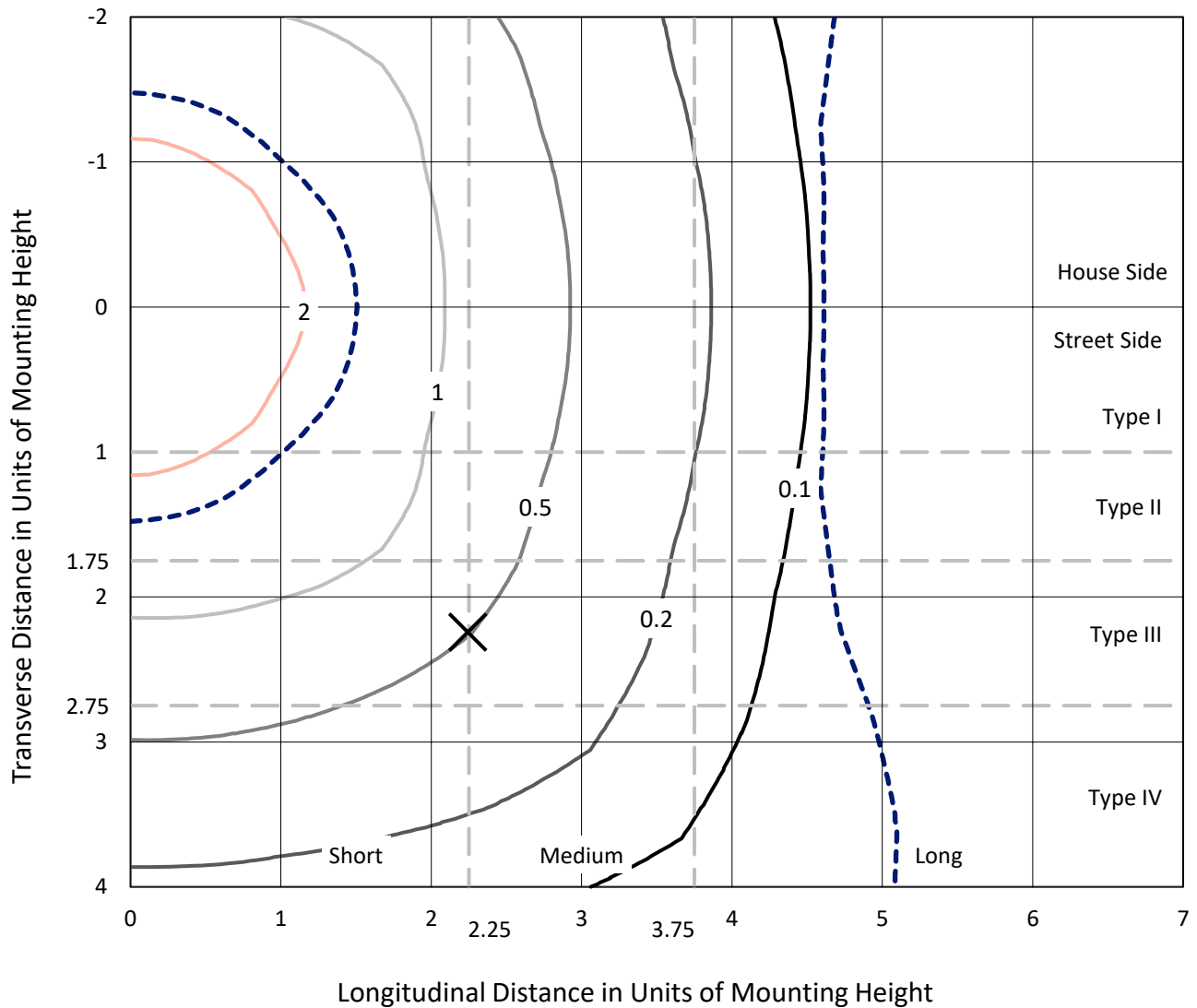
Lumens per Lamp: N/A  
Luminaire Lumens: 31559 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 28.75 FT



REPORT NUMBER: P381065  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

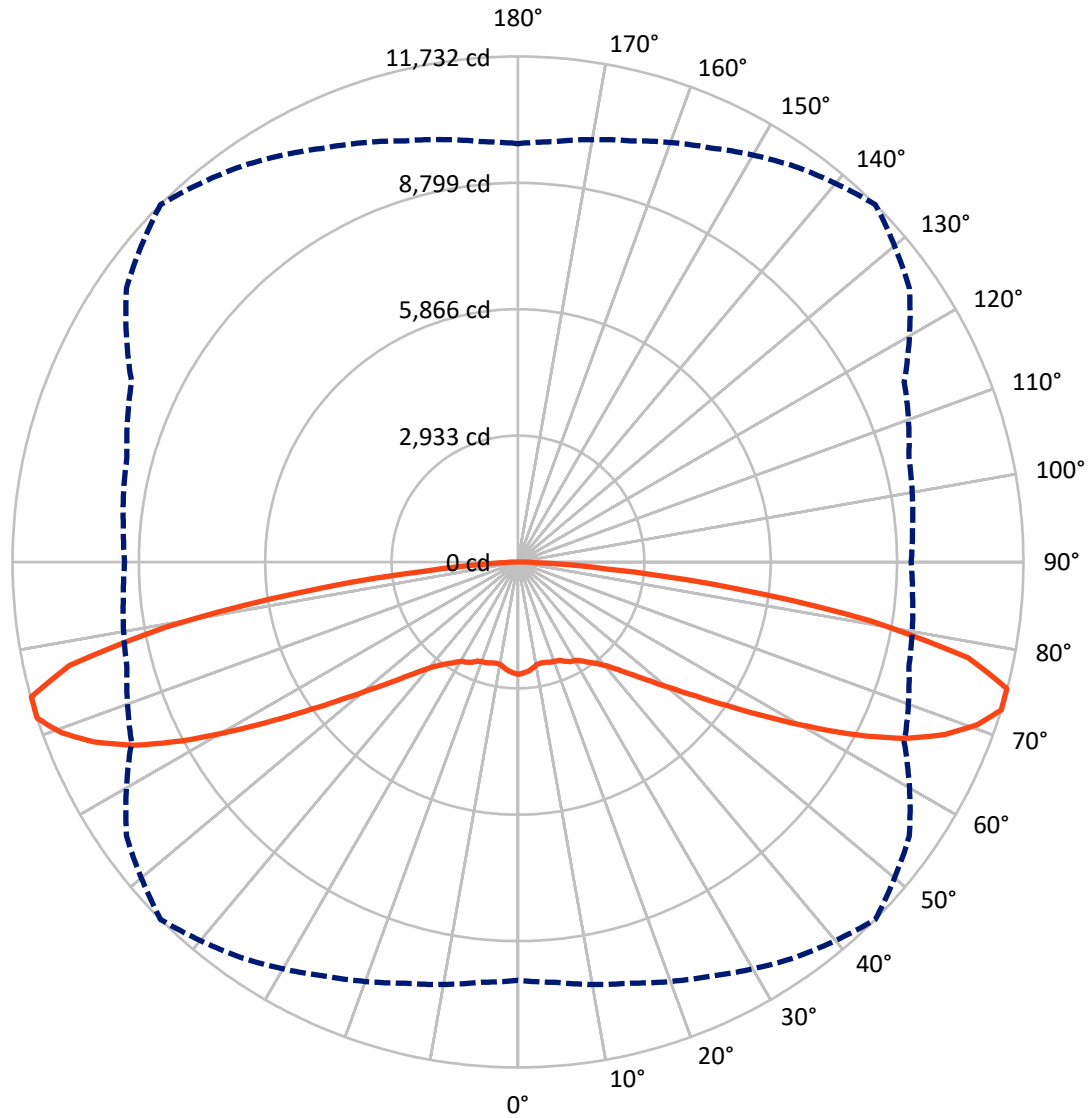
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P381065  
CATALOG NUMBER: PRV-XL-PA3B-740-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P381065  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-5WQ

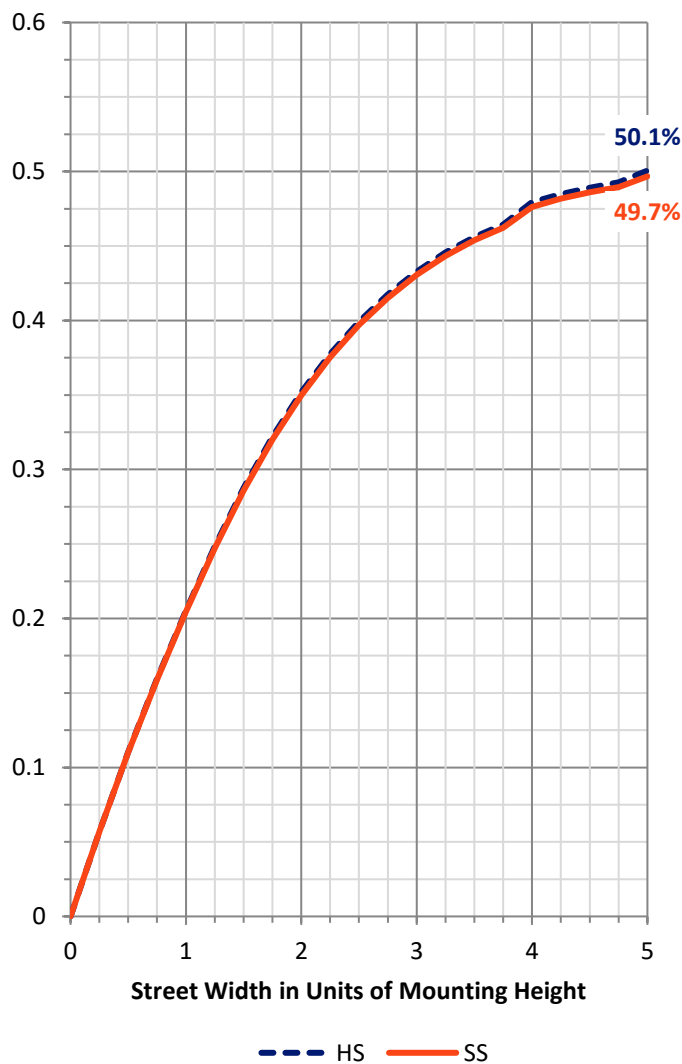
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15779.5	0.0	15779.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15779.5	0.0	15779.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31559.0	0.0	31559.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.5	0.8
10°-20°	695.1	2.2
20°-30°	1181.1	3.7
30°-40°	1801.5	5.7
40°-50°	2966.4	9.4
50°-60°	5180.2	16.4
60°-70°	8684.8	27.5
70°-80°	9294.5	29.5
80°-90°	1515.9	4.8
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°	31559.0	100.0
0°-180°	31559.0	100.0



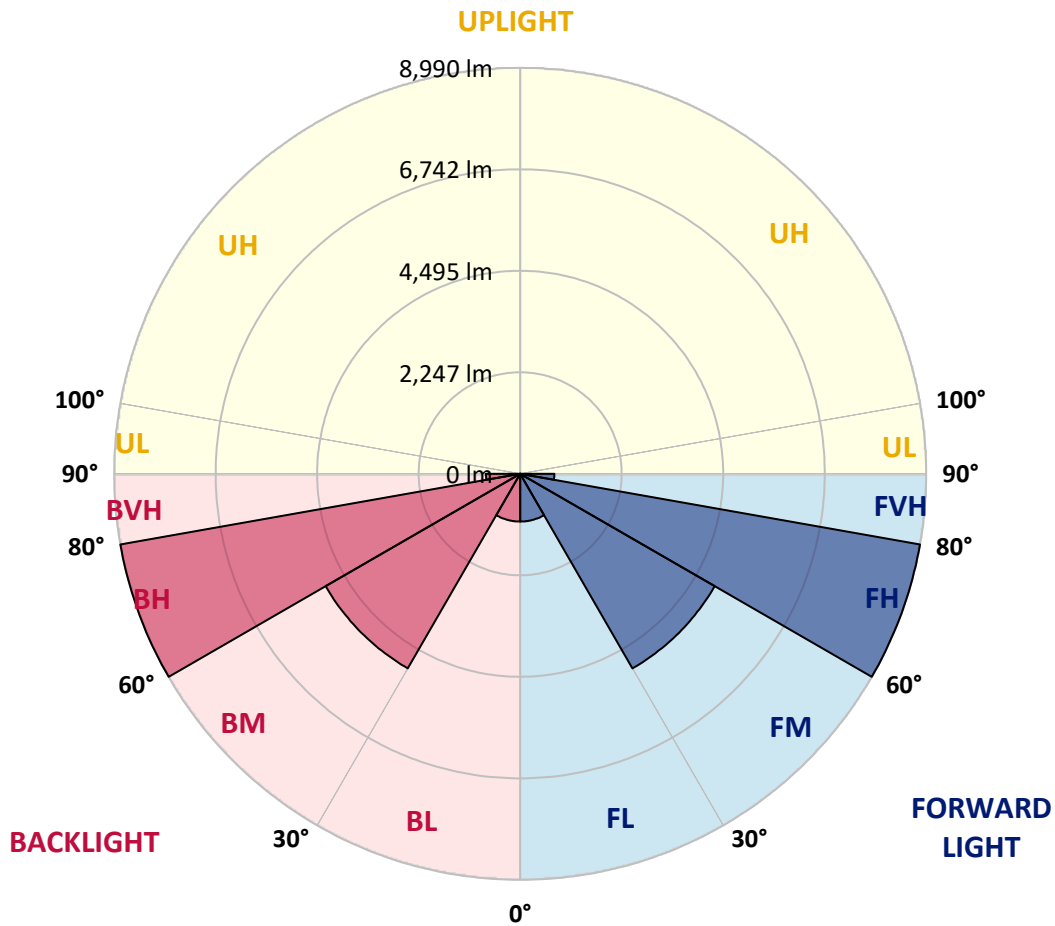
REPORT NUMBER: P381065  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.9	3.4			
FM (30°-60°)	4974.1	15.8			
FH (60°-80°)	8989.6	28.5			G4/12000
FVH (80°-90°)	758.0	2.4			G5
BL (0°-30°)	1057.9	3.4	B3/2500		
BM (30°-60°)	4974.1	15.8	B3/5000		
BH (60°-80°)	8989.6	28.5	B5		G4/12000
BVH (80°-90°)	758.0	2.4			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





REPORT NUMBER: P381065  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2611.5	2611.5	2611.5	2611.5	2611.5	2611.5	2611.5	2611.5	2611.5	2611.5	2611.5
2.5°	2595.4	2595.4	2595.4	2591.4	2583.3	2579.3	2571.2	2575.3	2575.3	2575.3	2575.3
5°	2563.2	2563.2	2559.2	2555.1	2547.1	2543.0	2535.0	2543.0	2543.0	2543.0	2543.0
7.5°	2502.7	2506.8	2506.8	2502.7	2490.6	2486.6	2474.5	2478.5	2478.5	2482.6	2478.5
10°	2470.5	2470.5	2466.5	2446.3	2426.2	2418.1	2414.1	2426.2	2438.2	2450.3	2450.3
12.5°	2470.5	2470.5	2462.4	2430.2	2402.0	2402.0	2402.0	2418.1	2442.3	2466.5	2470.5
15°	2482.6	2482.6	2466.5	2430.2	2414.1	2418.1	2418.1	2434.2	2462.4	2494.7	2498.7
17.5°	2490.6	2490.6	2470.5	2434.2	2434.2	2446.3	2438.2	2450.3	2478.5	2514.8	2518.8
20°	2502.7	2502.7	2474.5	2446.3	2446.3	2458.4	2458.4	2470.5	2494.7	2530.9	2535.0
22.5°	2526.9	2522.9	2494.7	2470.5	2470.5	2478.5	2486.6	2502.7	2522.9	2555.1	2563.2
25°	2555.1	2555.1	2530.9	2526.9	2535.0	2555.1	2551.1	2547.1	2555.1	2583.3	2595.4
27.5°	2571.2	2571.2	2555.1	2567.2	2599.5	2615.6	2595.4	2579.3	2579.3	2607.5	2611.5
30°	2623.6	2619.6	2603.5	2611.5	2639.8	2647.8	2635.7	2615.6	2627.7	2659.9	2663.9
32.5°	2712.3	2712.3	2688.1	2688.1	2708.3	2740.5	2700.2	2688.1	2704.2	2740.5	2744.5
35°	2849.3	2849.3	2817.1	2801.0	2817.1	2861.4	2801.0	2796.9	2825.1	2865.4	2869.5
37.5°	3022.6	3022.6	3002.5	2962.2	2966.2	2994.4	2942.0	2938.0	2990.4	3034.7	3034.7
40°	3240.2	3252.3	3232.2	3183.8	3167.7	3171.7	3131.4	3135.5	3195.9	3248.3	3248.3
42.5°	3510.3	3518.3	3486.1	3449.8	3429.7	3417.6	3377.3	3385.3	3457.9	3526.4	3526.4
45°	3836.7	3840.7	3808.5	3764.2	3740.0	3731.9	3691.6	3711.8	3792.4	3864.9	3860.9
47.5°	4203.5	4207.5	4175.2	4130.9	4114.8	4126.9	4086.6	4086.6	4159.1	4219.6	4211.5
50°	4618.6	4626.6	4590.3	4570.2	4558.1	4590.3	4542.0	4497.7	4546.0	4606.5	4598.4
52.5°	5078.0	5098.1	5074.0	5082.0	5126.4	5166.7	5086.1	4989.3	5013.5	5053.8	5041.7
55°	5634.2	5658.3	5666.4	5694.6	5811.5	5880.0	5747.0	5585.8	5573.7	5577.7	5557.6
57.5°	6258.8	6275.0	6327.3	6391.8	6633.6	6742.5	6532.9	6254.8	6166.1	6113.7	6101.7
60°	6887.5	6915.8	7044.7	7177.7	7548.5	7746.0	7423.6	6956.1	6766.6	6669.9	6649.8
62.5°	7520.3	7576.7	7786.3	8012.0	8552.0	8846.2	8350.5	7673.4	7399.4	7278.5	7246.2
65°	8253.8	8322.3	8576.2	8862.3	9462.8	9877.9	9277.4	8415.0	8120.8	7959.6	7919.3
67.5°	9112.2	9184.7	9390.3	9708.7	10276.9	10683.9	10152.0	9172.6	8789.8	8584.2	8552.0
70°	9817.5	9881.9	10103.6	10426.0	10849.2	11312.7	10804.9	9777.2	9430.6	9285.5	9265.3
72.5°	9708.7	9793.3	10119.7	10603.3	11207.9	11731.8	11091.0	9894.0	9394.3	9192.8	9128.3
75°	8479.5	8572.1	8959.0	9833.6	10937.8	11719.7	10675.9	9116.2	8527.8	8358.5	8326.3
77.5°	5614.0	5702.7	6355.6	7733.9	9551.5	10679.9	9422.5	7637.1	6690.1	6283.0	6258.8
80°	2269.0	2381.8	3006.5	4469.4	6770.7	8302.1	6988.3	4888.6	3296.7	2659.9	2530.9
82.5°	528.0	628.7	914.8	1648.3	3465.9	5170.7	3768.2	1825.7	1059.9	753.6	677.1
85°	221.7	225.7	390.9	536.0	1084.1	2087.6	1233.2	665.0	540.0	395.0	386.9
87.5°	84.6	88.7	189.4	225.7	346.6	395.0	419.1	342.6	318.4	197.5	189.4
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)