

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: P381059

Luminaire Tested: **PRV-XL-PA4B-730-U-5WQ**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381059  
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-PA4B-730-U-5WQ  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37219 lumens  
Efficiency: N/A  
Efficacy: 122.8 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

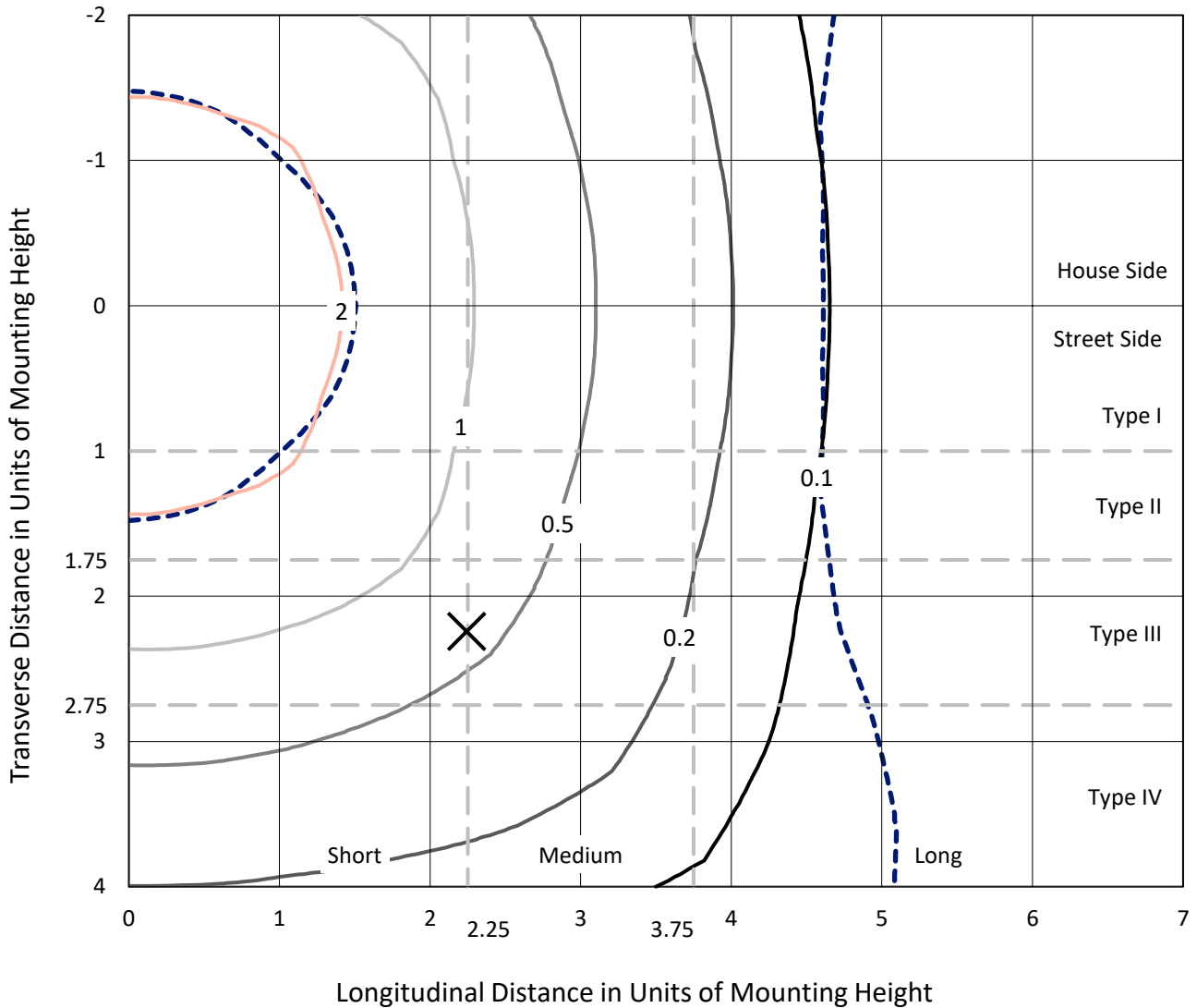
Input Watts (W): 303  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

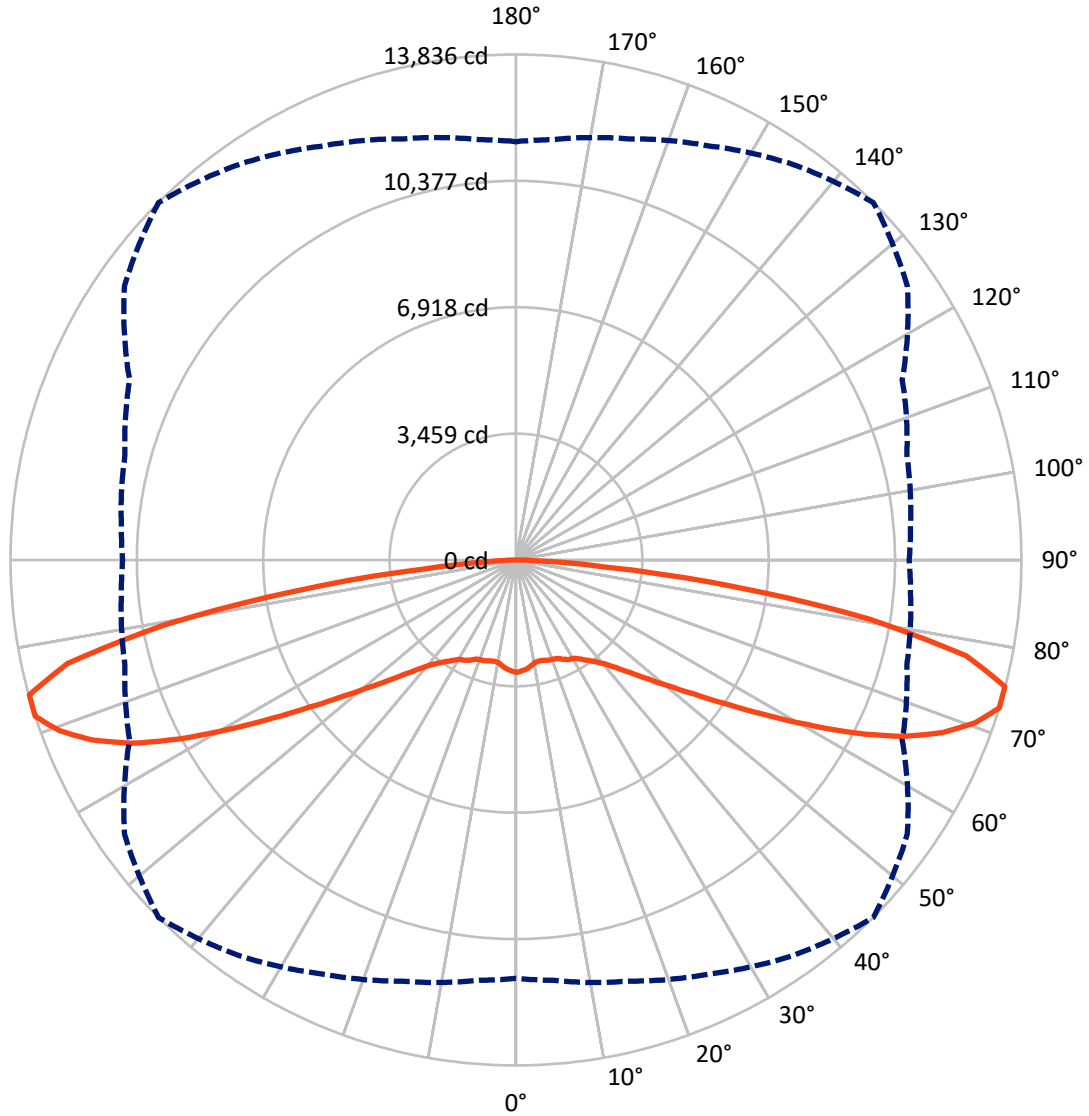
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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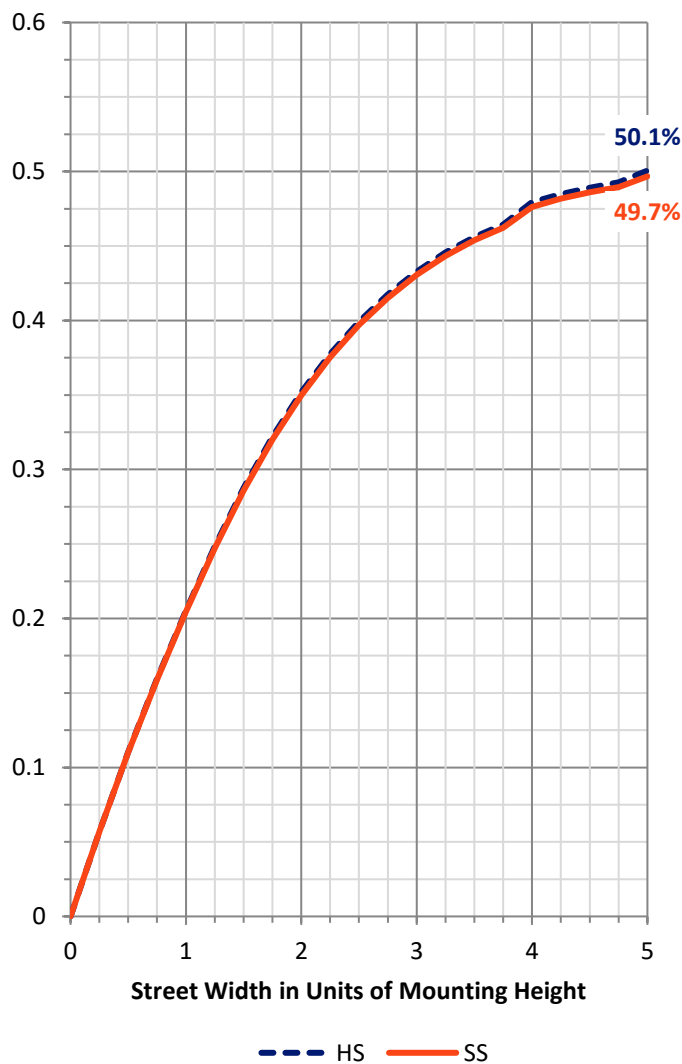
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18609.5	0.0	18609.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18609.5	0.0	18609.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37219.0	0.0	37219.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.4	0.8
10°-20°	819.8	2.2
20°-30°	1392.9	3.7
30°-40°	2124.6	5.7
40°-50°	3498.4	9.4
50°-60°	6109.3	16.4
60°-70°	10242.3	27.5
70°-80°	10961.4	29.5
80°-90°	1787.8	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°	37219.0	100.0
0°-180°	37219.0	100.0



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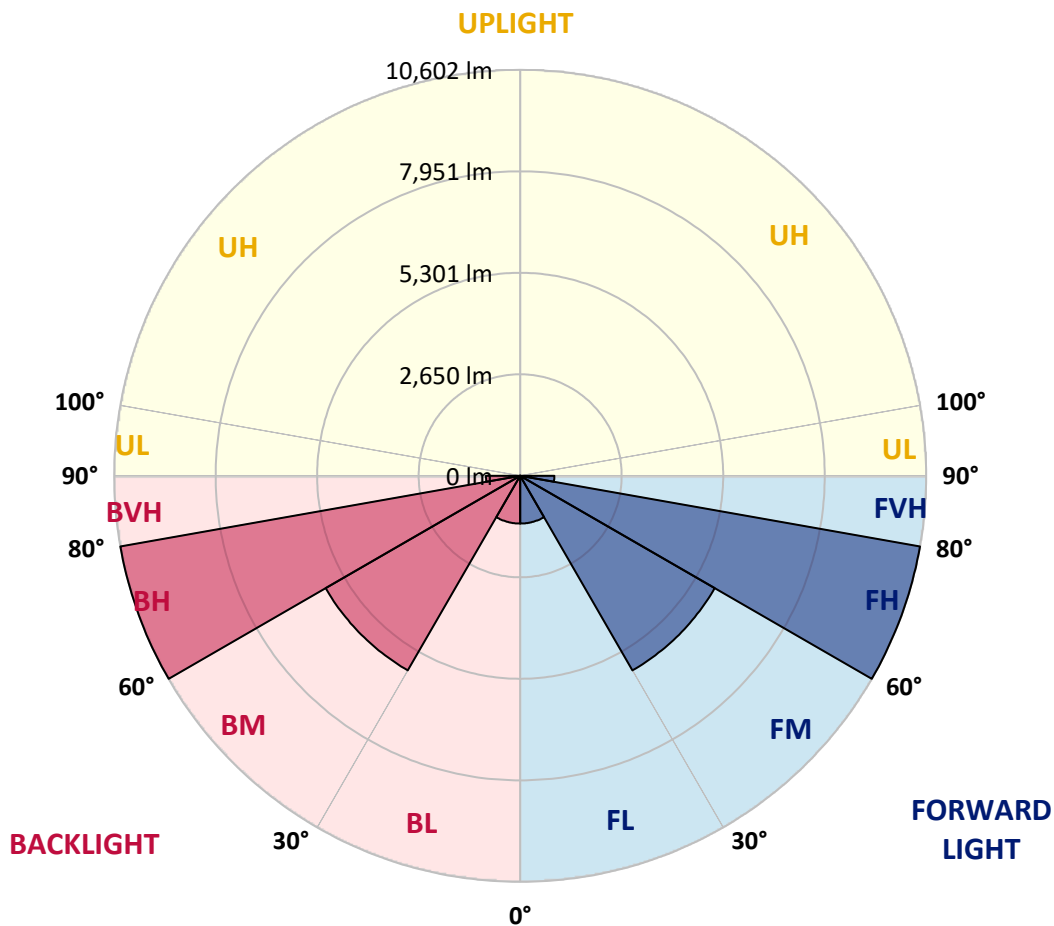
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.6	3.4			
FM (30°-60°)	5866.2	15.8			
FH (60°-80°)	10601.9	28.5			G4/12000
FVH (80°-90°)	893.9	2.4			G5
BL (0°-30°)	1247.6	3.4	B3/2500		
BM (30°-60°)	5866.2	15.8	B4/8500		
BH (60°-80°)	10601.9	28.5	B5		G4/12000
BVH (80°-90°)	893.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9
2.5°	3060.9	3060.9	3060.9	3056.1	3046.6	3041.9	3032.4	3037.1	3037.1	3037.1	3037.1
5°	3022.9	3022.9	3018.1	3013.4	3003.9	2999.1	2989.6	2999.1	2999.1	2999.1	2999.1
7.5°	2951.6	2956.3	2956.3	2951.6	2937.3	2932.6	2918.3	2923.1	2923.1	2927.8	2923.1
10°	2913.6	2913.6	2908.8	2885.0	2861.3	2851.8	2847.0	2861.3	2875.5	2889.8	2889.8
12.5°	2913.6	2913.6	2904.1	2866.0	2832.8	2832.8	2832.8	2851.8	2880.3	2908.8	2913.6
15°	2927.8	2927.8	2908.8	2866.0	2847.0	2851.8	2851.8	2870.8	2904.1	2942.1	2946.8
17.5°	2937.3	2937.3	2913.6	2870.8	2870.8	2885.0	2875.5	2889.8	2923.1	2965.8	2970.6
20°	2951.6	2951.6	2918.3	2885.0	2885.0	2899.3	2899.3	2913.6	2942.1	2984.9	2989.6
22.5°	2980.1	2975.3	2942.1	2913.6	2913.6	2923.1	2932.6	2951.6	2975.3	3013.4	3022.9
25°	3013.4	3013.4	2984.9	2980.1	2989.6	3013.4	3008.6	3003.9	3013.4	3046.6	3060.9
27.5°	3032.4	3032.4	3013.4	3027.6	3065.7	3084.7	3060.9	3041.9	3041.9	3075.2	3079.9
30°	3094.2	3089.4	3070.4	3079.9	3113.2	3122.7	3108.4	3084.7	3098.9	3136.9	3141.7
32.5°	3198.7	3198.7	3170.2	3170.2	3194.0	3232.0	3184.5	3170.2	3189.2	3232.0	3236.8
35°	3360.3	3360.3	3322.3	3303.3	3322.3	3374.6	3303.3	3298.5	3331.8	3379.3	3384.1
37.5°	3564.7	3564.7	3541.0	3493.4	3498.2	3531.4	3469.7	3464.9	3526.7	3579.0	3579.0
40°	3821.4	3835.6	3811.9	3754.8	3735.8	3740.6	3693.0	3697.8	3769.1	3830.9	3830.9
42.5°	4139.8	4149.3	4111.3	4068.5	4044.8	4030.5	3983.0	3992.5	4078.0	4158.8	4158.8
45°	4524.8	4529.6	4491.5	4439.3	4410.7	4401.2	4353.7	4377.5	4472.5	4558.1	4553.3
47.5°	4957.3	4962.1	4924.1	4871.8	4852.8	4867.0	4819.5	4819.5	4905.0	4976.3	4966.8
50°	5446.9	5456.4	5413.6	5389.8	5375.6	5413.6	5356.6	5304.3	5361.3	5432.6	5423.1
52.5°	5988.7	6012.5	5984.0	5993.5	6045.8	6093.3	5998.2	5884.2	5912.7	5960.2	5945.9
55°	6644.6	6673.1	6682.7	6715.9	6853.8	6934.6	6777.7	6587.6	6573.3	6578.1	6554.3
57.5°	7381.3	7400.3	7462.1	7538.2	7823.4	7951.7	7704.5	7376.6	7272.0	7210.2	7196.0
60°	8122.8	8156.1	8308.2	8465.0	8902.3	9135.2	8754.9	8203.6	7980.2	7866.1	7842.4
62.5°	8869.0	8935.6	9182.7	9448.9	10085.8	10432.7	9848.1	9049.6	8726.4	8583.8	8545.8
65°	9734.0	9814.8	10114.3	10451.7	11159.9	11649.5	10941.3	9924.2	9577.2	9387.1	9339.6
67.5°	10746.4	10832.0	11074.4	11449.9	12120.0	12600.1	11972.7	10817.7	10366.2	10123.8	10085.8
70°	11578.2	11654.2	11915.7	12295.9	12794.9	13341.5	12742.7	11530.7	11121.9	10950.8	10927.0
72.5°	11449.9	11549.7	11934.7	12505.0	13218.0	13835.8	13080.1	11668.5	11079.1	10841.5	10765.4
75°	10000.2	10109.5	10565.8	11597.2	12899.5	13821.6	12590.6	10751.2	10057.2	9857.6	9819.6
77.5°	6620.9	6725.4	7495.4	9120.9	11264.5	12595.3	11112.4	9006.8	7889.9	7409.9	7381.3
80°	2675.9	2809.0	3545.7	5271.0	7985.0	9791.1	8241.6	5765.3	3887.9	3136.9	2984.9
82.5°	622.6	741.5	1078.9	1944.0	4087.5	6098.0	4444.0	2153.1	1250.0	888.8	798.5
85°	261.4	266.2	461.0	632.1	1278.5	2462.0	1454.4	784.2	636.9	465.8	456.3
87.5°	99.8	104.6	223.4	266.2	408.8	465.8	494.3	404.0	375.5	232.9	223.4
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)