

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: P381075

Luminaire Tested: **PRV-XL-PA4B-750-U-5WQ**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381075  
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-750-U-5WQ  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 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: 40868 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

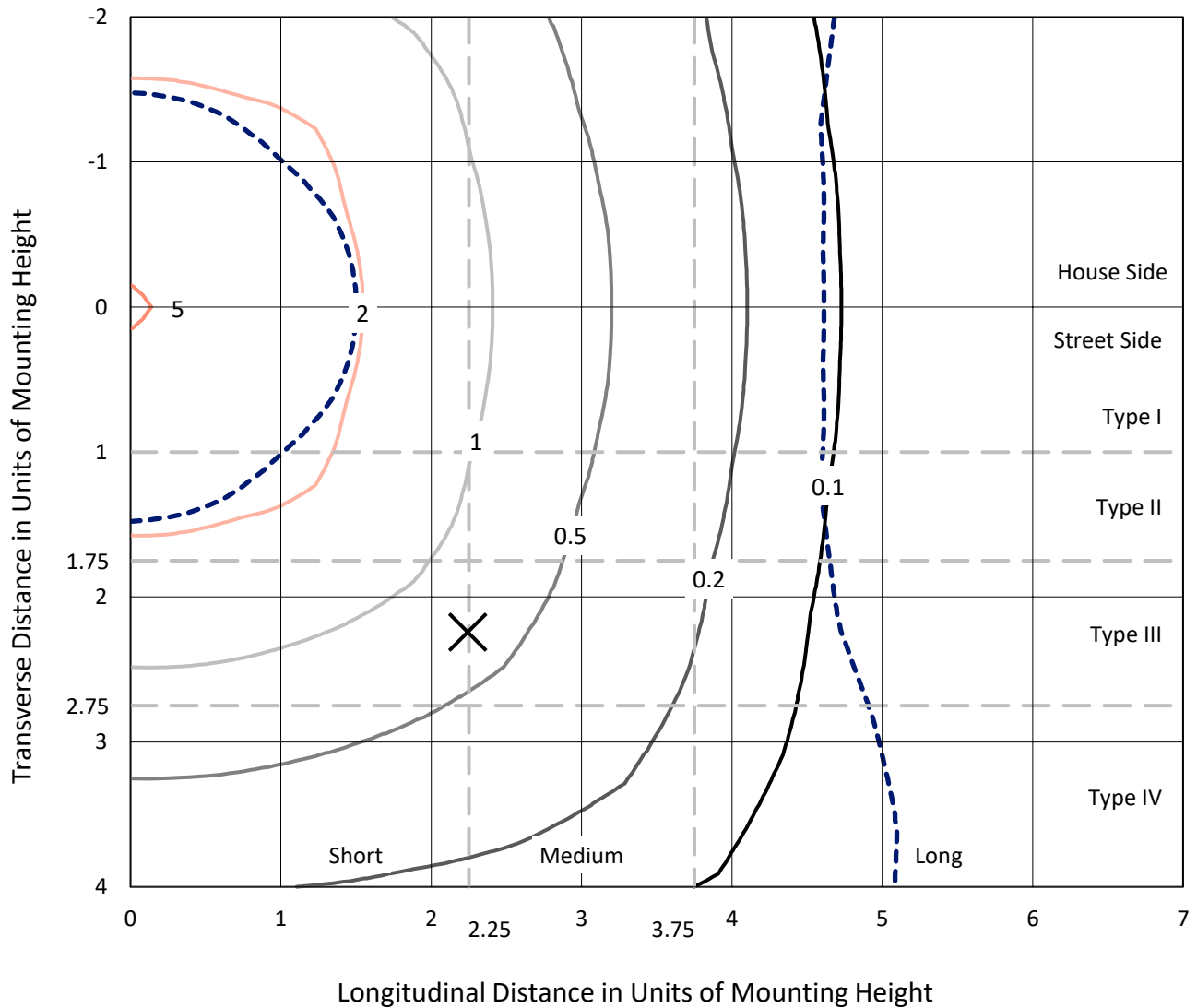
Input Watts (W): 303  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

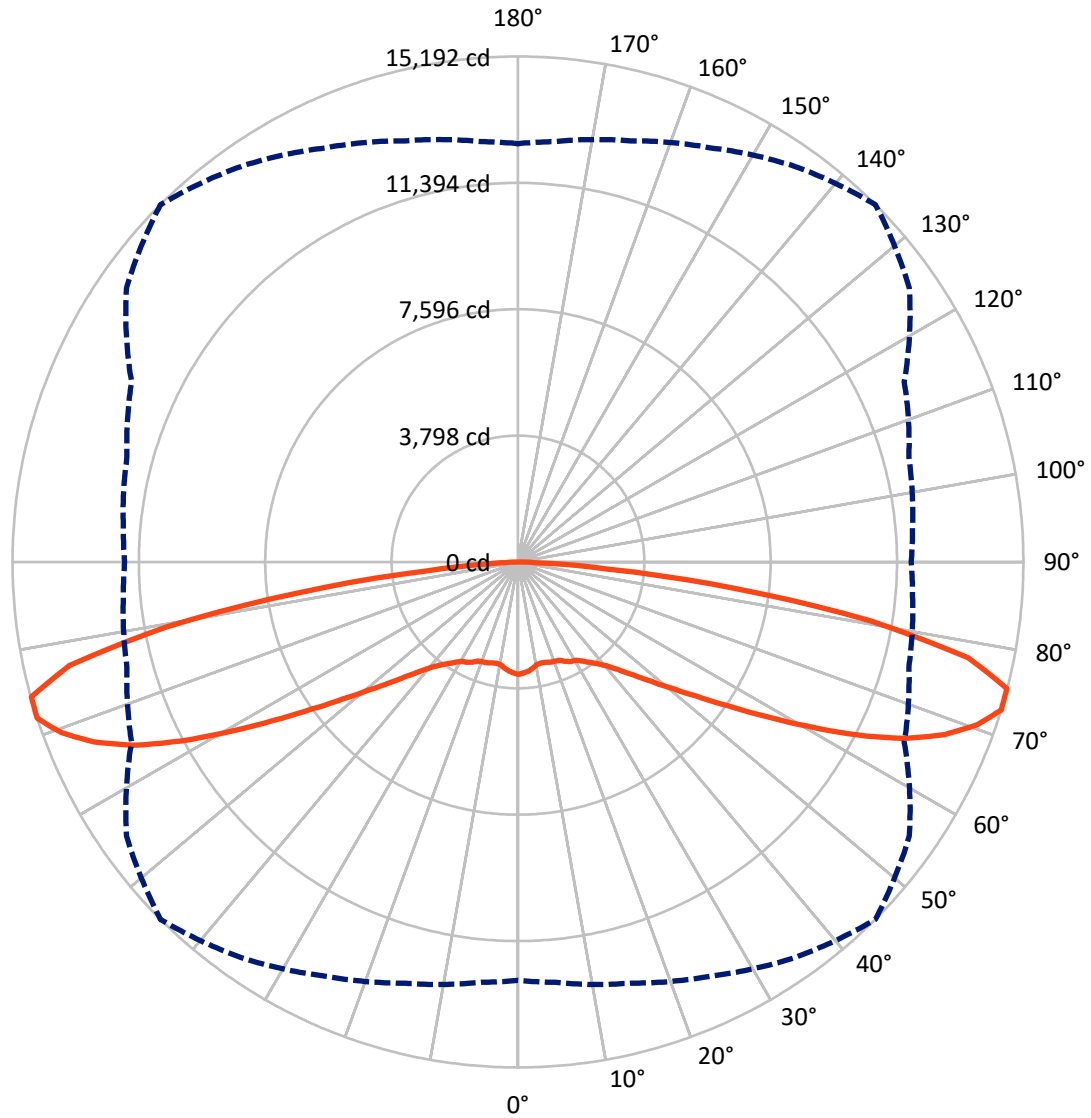
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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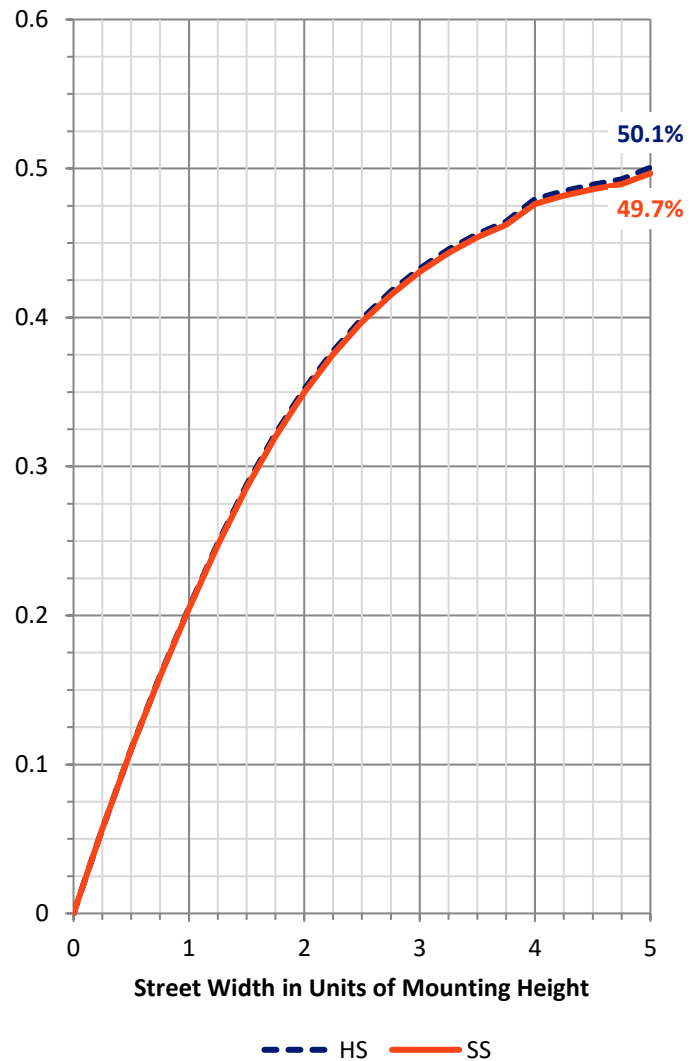
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20434.0	0.0	20434.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20434.0	0.0	20434.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40868.0	0.0	40868.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.1	0.8
10°-20°	900.2	2.2
20°-30°	1529.5	3.7
30°-40°	2332.9	5.7
40°-50°	3841.4	9.4
50°-60°	6708.2	16.4
60°-70°	11246.5	27.5
70°-80°	12036.1	29.5
80°-90°	1963.1	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°	40868.0	100.0
0°-180°	40868.0	100.0



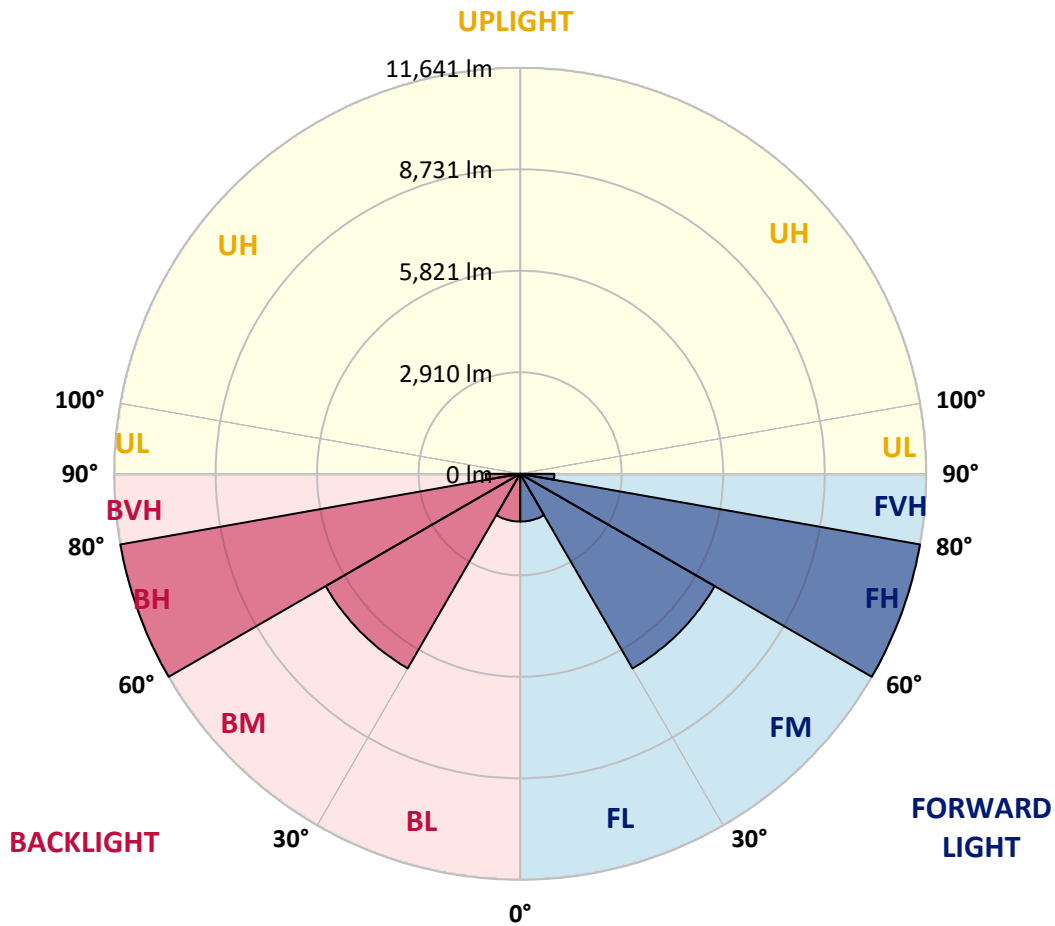
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.9	3.4			
FM (30°-60°)	6441.3	15.8			
FH (60°-80°)	11641.3	28.5			G4/12000
FVH (80°-90°)	981.5	2.4			G5
BL (0°-30°)	1369.9	3.4	B3/2500		
BM (30°-60°)	6441.3	15.8	B4/8500		
BH (60°-80°)	11641.3	28.5	B5		G4/12000
BVH (80°-90°)	981.5	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°	3381.9	3381.9	3381.9	3381.9	3381.9	3381.9	3381.9	3381.9	3381.9	3381.9	3381.9
2.5°	3361.0	3361.0	3361.0	3355.8	3345.3	3340.1	3329.7	3334.9	3334.9	3334.9	3334.9
5°	3319.2	3319.2	3314.0	3308.8	3298.4	3293.2	3282.7	3293.2	3293.2	3293.2	3293.2
7.5°	3241.0	3246.2	3246.2	3241.0	3225.3	3220.1	3204.4	3209.6	3209.6	3214.9	3209.6
10°	3199.2	3199.2	3194.0	3167.9	3141.8	3131.4	3126.1	3141.8	3157.5	3173.1	3173.1
12.5°	3199.2	3199.2	3188.8	3147.0	3110.5	3110.5	3110.5	3131.4	3162.7	3194.0	3199.2
15°	3214.9	3214.9	3194.0	3147.0	3126.1	3131.4	3131.4	3152.2	3188.8	3230.5	3235.7
17.5°	3225.3	3225.3	3199.2	3152.2	3152.2	3167.9	3157.5	3173.1	3209.6	3256.6	3261.8
20°	3241.0	3241.0	3204.4	3167.9	3167.9	3183.6	3183.6	3199.2	3230.5	3277.5	3282.7
22.5°	3272.3	3267.1	3230.5	3199.2	3199.2	3209.6	3220.1	3241.0	3267.1	3308.8	3319.2
25°	3308.8	3308.8	3277.5	3272.3	3282.7	3308.8	3303.6	3298.4	3308.8	3345.3	3361.0
27.5°	3329.7	3329.7	3308.8	3324.5	3366.2	3387.1	3361.0	3340.1	3340.1	3376.7	3381.9
30°	3397.5	3392.3	3371.4	3381.9	3418.4	3428.8	3413.2	3387.1	3402.7	3444.5	3449.7
32.5°	3512.3	3512.3	3481.0	3481.0	3507.1	3548.9	3496.7	3481.0	3501.9	3548.9	3554.1
35°	3689.8	3689.8	3648.0	3627.2	3648.0	3705.4	3627.2	3621.9	3658.5	3710.7	3715.9
37.5°	3914.2	3914.2	3888.1	3835.9	3841.1	3877.7	3809.8	3804.6	3872.5	3929.9	3929.9
40°	4196.0	4211.7	4185.6	4123.0	4102.1	4107.3	4055.1	4060.3	4138.6	4206.5	4206.5
42.5°	4545.7	4556.1	4514.4	4467.4	4441.3	4425.7	4373.5	4383.9	4477.8	4566.6	4566.6
45°	4968.4	4973.6	4931.9	4874.5	4843.2	4832.7	4780.5	4806.6	4911.0	5005.0	4999.7
47.5°	5443.4	5448.6	5406.8	5349.4	5328.5	5344.2	5292.0	5292.0	5385.9	5464.2	5453.8
50°	5980.9	5991.3	5944.4	5918.3	5902.6	5944.4	5881.7	5824.3	5887.0	5965.2	5954.8
52.5°	6575.9	6602.0	6570.6	6581.1	6638.5	6690.7	6586.3	6461.0	6492.4	6544.5	6528.9
55°	7296.1	7327.4	7337.8	7374.4	7525.7	7614.4	7442.2	7233.4	7217.8	7223.0	7196.9
57.5°	8105.0	8125.9	8193.7	8277.2	8590.4	8731.3	8459.9	8099.8	7985.0	7917.1	7901.5
60°	8919.2	8955.7	9122.7	9294.9	9775.1	10030.8	9613.3	9007.9	8762.6	8637.3	8611.2
62.5°	9738.5	9811.6	10083.0	10375.3	11074.6	11455.6	10813.6	9936.9	9582.0	9425.4	9383.7
65°	10688.4	10777.1	11105.9	11476.4	12254.1	12791.6	12014.0	10897.1	10516.2	10307.4	10255.2
67.5°	11800.0	11894.0	12160.1	12572.4	13308.3	13835.4	13146.5	11878.3	11382.5	11116.3	11074.6
70°	12713.3	12796.8	13083.9	13501.4	14049.4	14649.6	13992.0	12661.1	12212.3	12024.4	11998.3
72.5°	12572.4	12682.0	13104.8	13731.0	14513.9	15192.3	14362.5	12812.5	12165.3	11904.4	11820.9
75°	10980.6	11100.7	11601.7	12734.2	14164.2	15176.7	13825.0	11805.2	11043.3	10824.1	10782.3
77.5°	7270.0	7384.8	8230.3	10015.1	12368.9	13830.2	12201.9	9889.9	8663.4	8136.3	8105.0
80°	2938.3	3084.4	3893.3	5787.8	8767.8	10751.0	9049.6	6330.6	4269.1	3444.5	3277.5
82.5°	683.7	814.2	1184.7	2134.5	4488.3	6695.9	4879.7	2364.2	1372.6	975.9	876.8
85°	287.0	292.3	506.2	694.1	1403.9	2703.4	1597.0	861.1	699.3	511.5	501.0
87.5°	109.6	114.8	245.3	292.3	448.8	511.5	542.8	443.6	412.3	255.7	245.3
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)