

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: P381066

Luminaire Tested: **PRV-XL-PA4A-740-U-5WQ**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381066
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-PA4A-740-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35079 lumens
Efficiency: N/A
Efficacy: 143.2 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

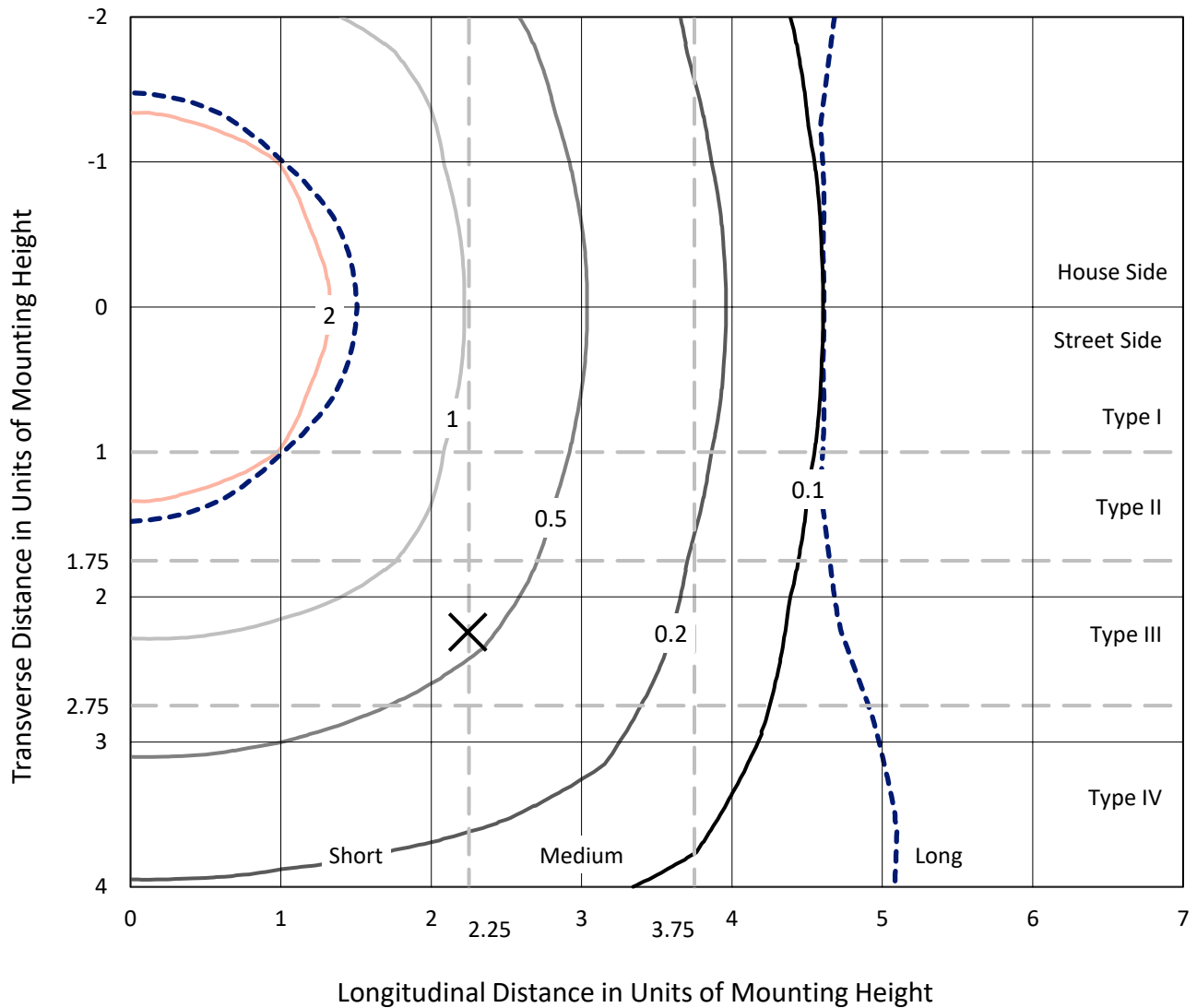
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381066
 CATALOG NUMBER: PRV-XL-PA4A-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

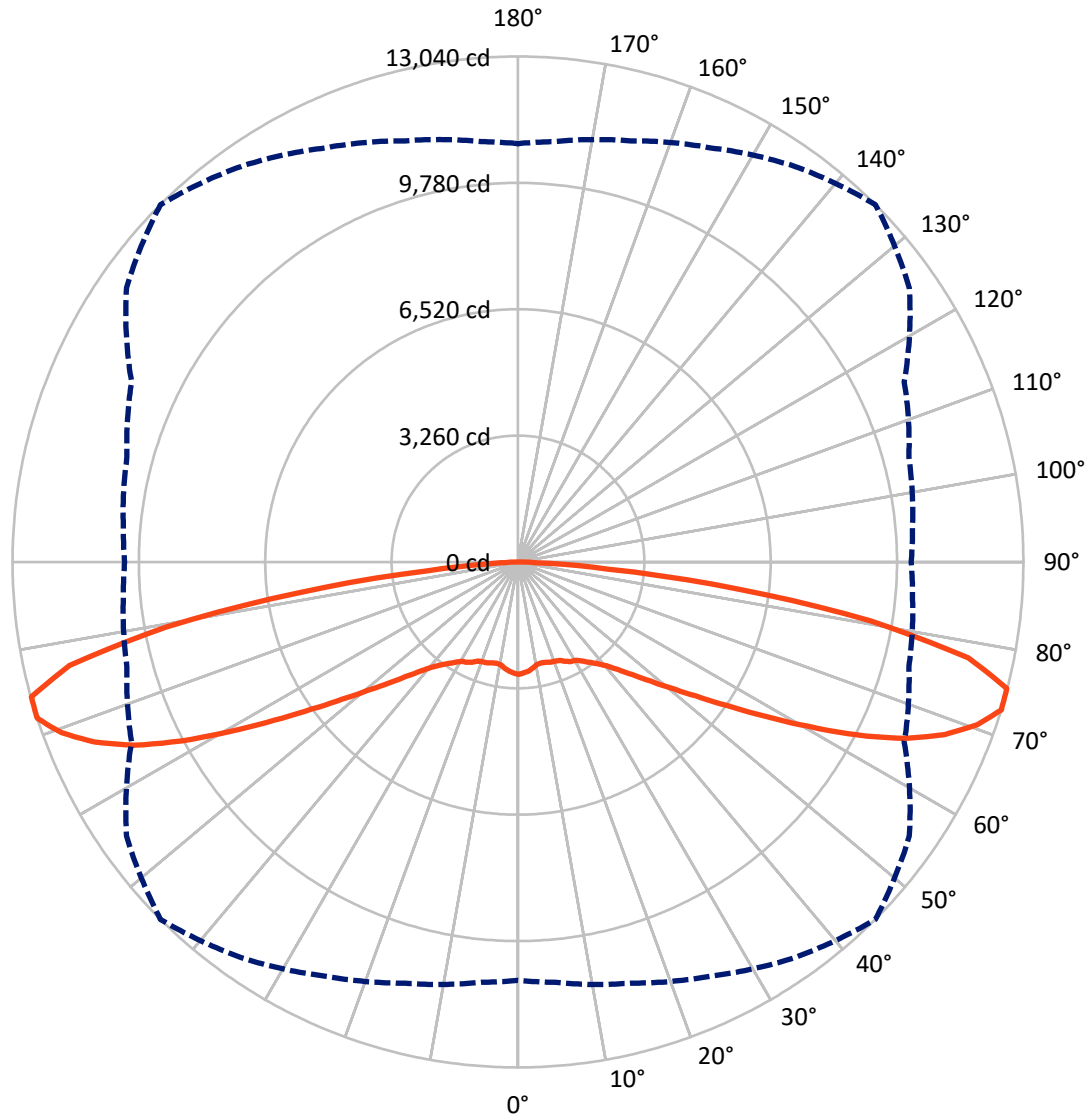
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P381066
CATALOG NUMBER: PRV-XL-PA4A-740-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P381066
 CATALOG NUMBER: PRV-XL-PA4A-740-U-5WQ

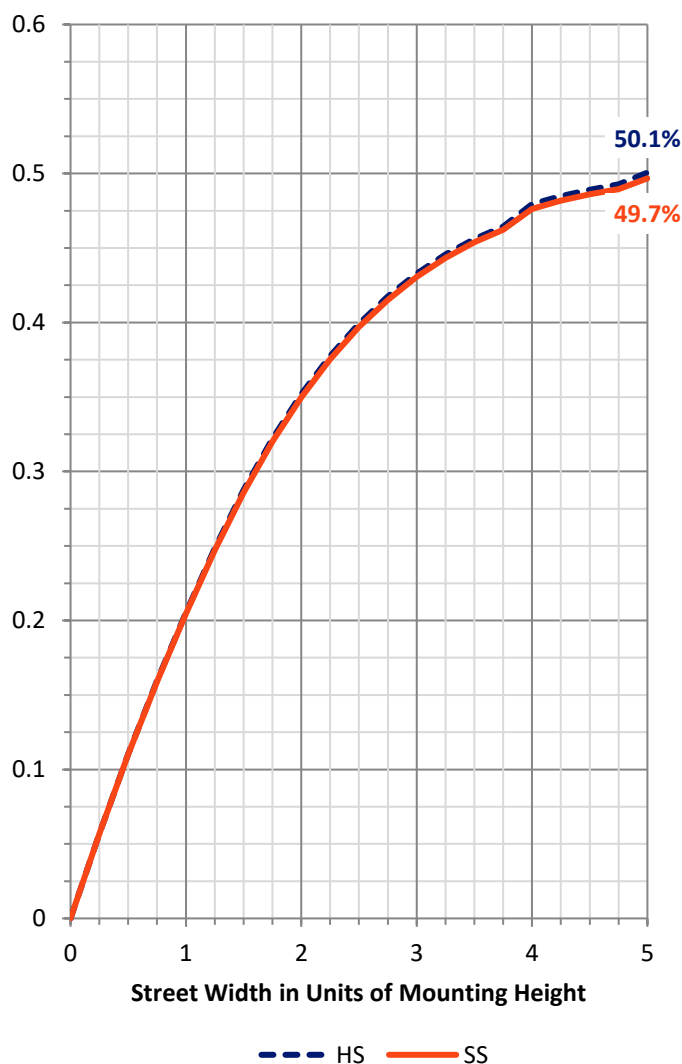
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17539.5	0.0	17539.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17539.5	0.0	17539.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35079.0	0.0	35079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	0.8
10°-20°	772.7	2.2
20°-30°	1312.9	3.7
30°-40°	2002.5	5.7
40°-50°	3297.3	9.4
50°-60°	5758.0	16.4
60°-70°	9653.4	27.5
70°-80°	10331.1	29.5
80°-90°	1685.0	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°	35079.0	100.0
0°-180°	35079.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381066

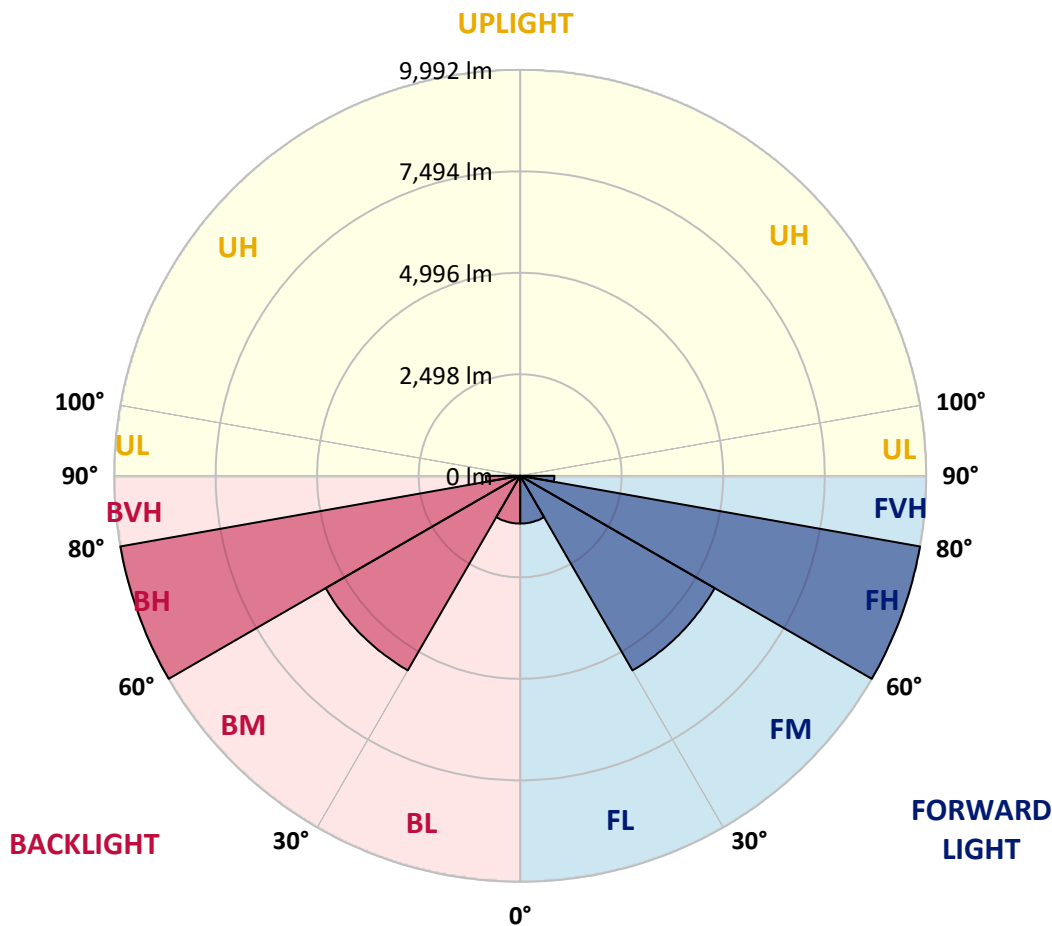
CATALOG NUMBER: PRV-XL-PA4A-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.8	3.4			
FM (30°-60°)	5528.9	15.8			
FH (60°-80°)	9992.3	28.5			G4/12000
FVH (80°-90°)	842.5	2.4			G5
BL (0°-30°)	1175.8	3.4	B3/2500		
BM (30°-60°)	5528.9	15.8	B4/8500		
BH (60°-80°)	9992.3	28.5	B5		G4/12000
BVH (80°-90°)	842.5	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





REPORT NUMBER: P381066

CATALOG NUMBER: PRV-XL-PA4A-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2884.9	2884.9	2884.9	2880.4	2871.5	2867.0	2858.0	2862.5	2862.5	2862.5	2862.5
5°	2849.1	2849.1	2844.6	2840.1	2831.2	2826.7	2817.7	2826.7	2826.7	2826.7	2826.7
7.5°	2781.9	2786.4	2786.4	2781.9	2768.4	2764.0	2750.5	2755.0	2755.0	2759.5	2755.0
10°	2746.0	2746.0	2741.6	2719.2	2696.8	2687.8	2683.3	2696.8	2710.2	2723.6	2723.6
12.5°	2746.0	2746.0	2737.1	2701.2	2669.9	2669.9	2669.9	2687.8	2714.7	2741.6	2746.0
15°	2759.5	2759.5	2741.6	2701.2	2683.3	2687.8	2687.8	2705.7	2737.1	2772.9	2777.4
17.5°	2768.4	2768.4	2746.0	2705.7	2705.7	2719.2	2710.2	2723.6	2755.0	2795.3	2799.8
20°	2781.9	2781.9	2750.5	2719.2	2719.2	2732.6	2732.6	2746.0	2772.9	2813.2	2817.7
22.5°	2808.8	2804.3	2772.9	2746.0	2746.0	2755.0	2764.0	2781.9	2804.3	2840.1	2849.1
25°	2840.1	2840.1	2813.2	2808.8	2817.7	2840.1	2835.6	2831.2	2840.1	2871.5	2884.9
27.5°	2858.0	2858.0	2840.1	2853.5	2889.4	2907.3	2884.9	2867.0	2867.0	2898.3	2902.8
30°	2916.3	2911.8	2893.9	2902.8	2934.2	2943.1	2929.7	2907.3	2920.7	2956.6	2961.1
32.5°	3014.8	3014.8	2987.9	2987.9	3010.3	3046.2	3001.4	2987.9	3005.9	3046.2	3050.7
35°	3167.1	3167.1	3131.3	3113.4	3131.3	3180.6	3113.4	3108.9	3140.2	3185.0	3189.5
37.5°	3359.8	3359.8	3337.4	3292.6	3297.0	3328.4	3270.2	3265.7	3323.9	3373.2	3373.2
40°	3601.7	3615.1	3592.7	3538.9	3521.0	3525.5	3480.7	3485.2	3552.4	3610.6	3610.6
42.5°	3901.8	3910.8	3874.9	3834.6	3812.2	3798.8	3754.0	3762.9	3843.6	3919.7	3919.7
45°	4264.6	4269.1	4233.3	4184.0	4157.1	4148.2	4103.4	4125.8	4215.4	4296.0	4291.5
47.5°	4672.3	4676.8	4640.9	4591.7	4573.7	4587.2	4542.4	4542.4	4623.0	4690.2	4681.3
50°	5133.7	5142.7	5102.3	5079.9	5066.5	5102.3	5048.6	4999.3	5053.1	5120.3	5111.3
52.5°	5644.4	5666.8	5639.9	5648.9	5698.1	5742.9	5653.3	5545.8	5572.7	5617.5	5604.1
55°	6262.6	6289.5	6298.4	6329.8	6459.7	6535.8	6388.0	6208.8	6195.4	6199.9	6177.5
57.5°	6956.9	6974.8	7033.1	7104.8	7373.5	7494.5	7261.5	6952.4	6853.9	6795.7	6782.2
60°	7655.8	7687.1	7830.5	7978.3	8390.4	8609.9	8251.6	7731.9	7521.4	7413.9	7391.5
62.5°	8359.1	8421.8	8654.7	8905.6	9505.9	9832.9	9281.9	8529.3	8224.7	8090.3	8054.4
65°	9174.4	9250.5	9532.7	9850.8	10518.3	10979.7	10312.2	9353.6	9026.5	8847.3	8802.6
67.5°	10128.5	10209.2	10437.6	10791.5	11423.2	11875.6	11284.3	10195.7	9770.2	9541.7	9505.9
70°	10912.5	10984.2	11230.5	11588.9	12059.3	12574.4	12010.0	10867.7	10482.4	10321.2	10298.8
72.5°	10791.5	10885.6	11248.5	11786.0	12458.0	13040.3	12328.1	10997.6	10442.1	10218.1	10146.5
75°	9425.2	9528.3	9958.3	10930.4	12157.8	13026.9	11866.6	10133.0	9479.0	9290.8	9255.0
77.5°	6240.2	6338.7	7064.4	8596.5	10616.8	11871.1	10473.5	8489.0	7436.3	6983.8	6956.9
80°	2522.1	2647.5	3341.8	4968.0	7525.8	9228.1	7767.7	5433.8	3664.4	2956.6	2813.2
82.5°	586.8	698.8	1016.9	1832.2	3852.5	5747.4	4188.5	2029.3	1178.2	837.7	752.6
85°	246.4	250.9	434.5	595.8	1205.0	2320.5	1370.8	739.1	600.3	439.0	430.0
87.5°	94.1	98.6	210.5	250.9	385.3	439.0	465.9	380.8	353.9	219.5	210.5
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)