

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: McGRAW-EDISON

Report Number: P529633

Luminaire Tested: **GALN-SA4D-740-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19777 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

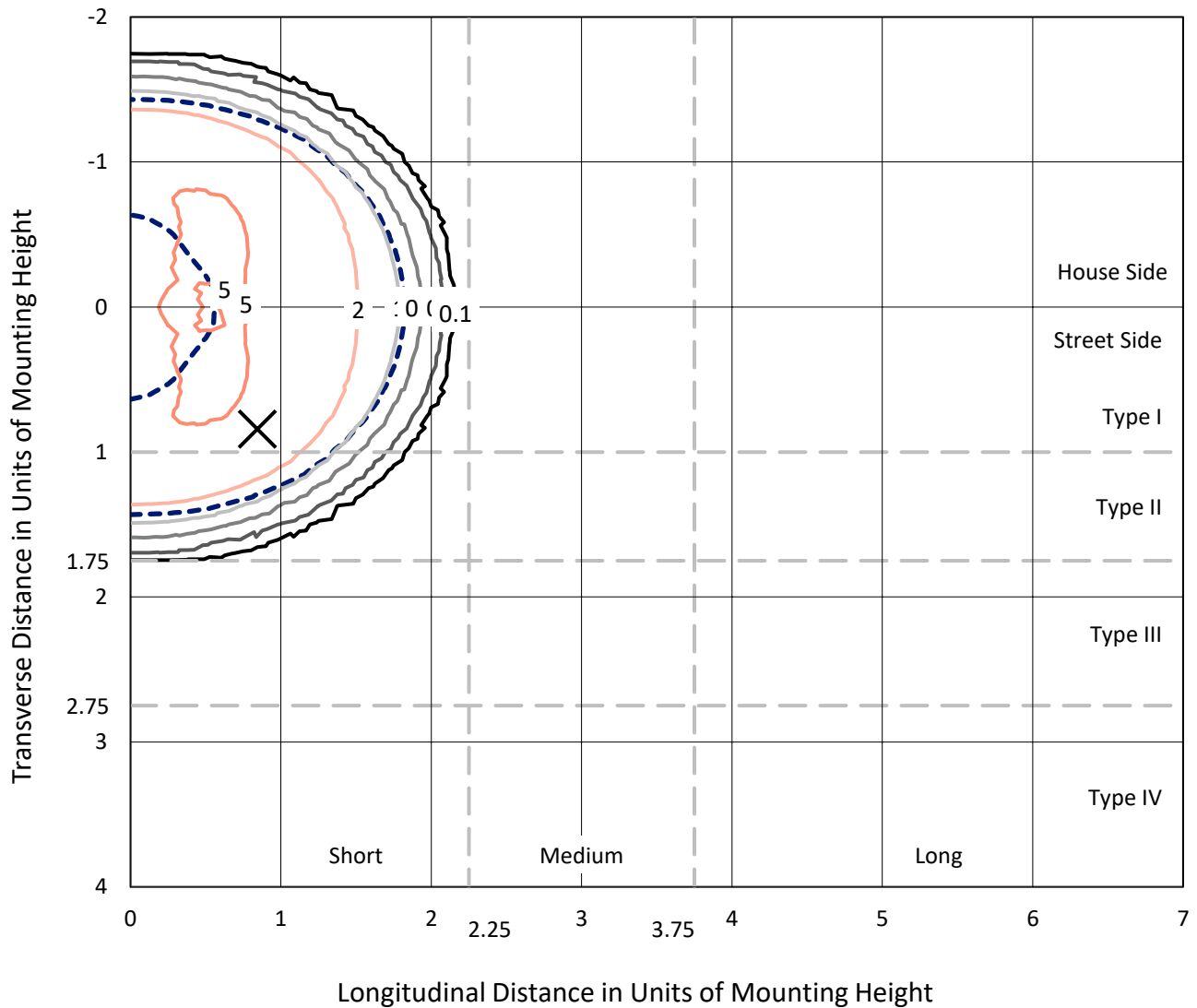
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

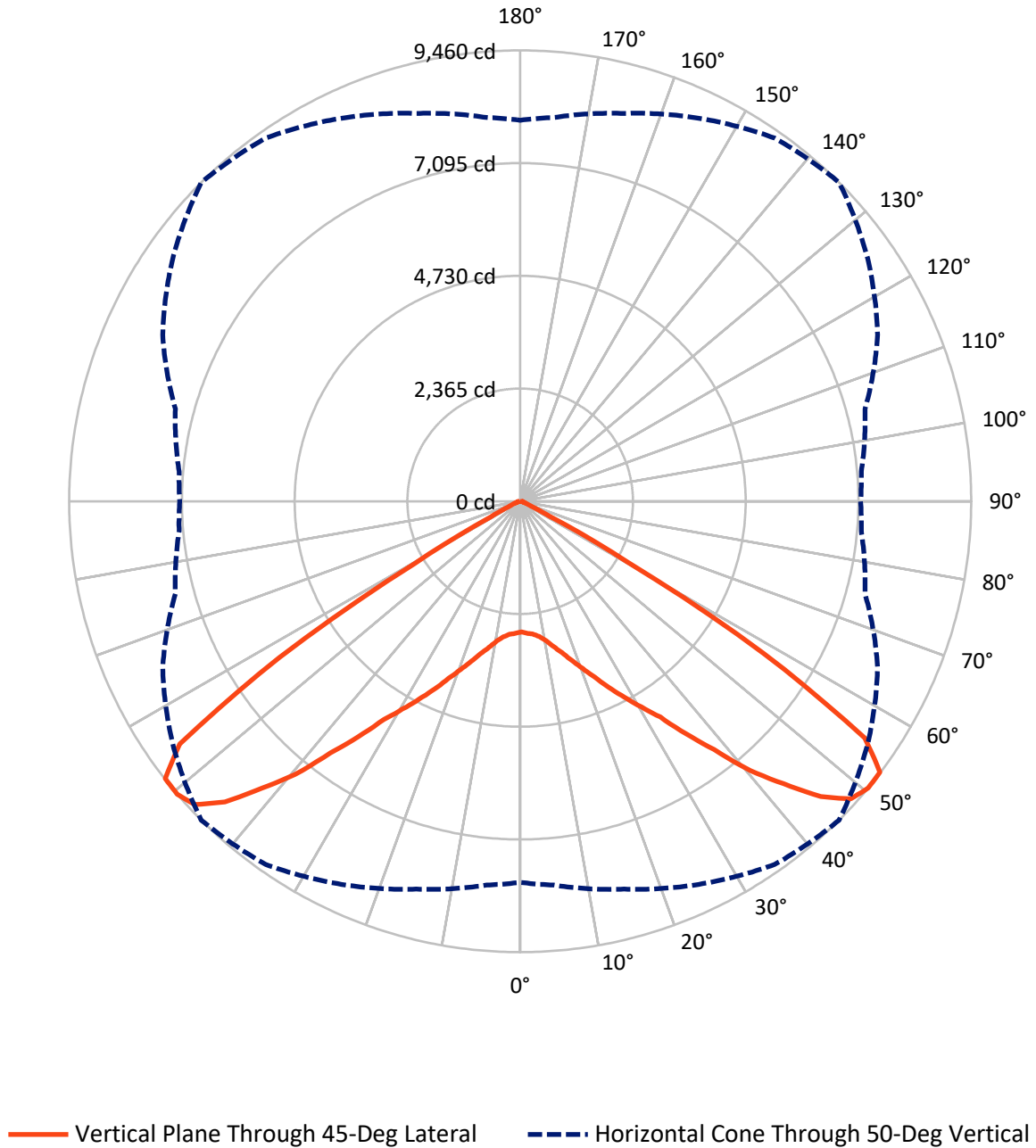
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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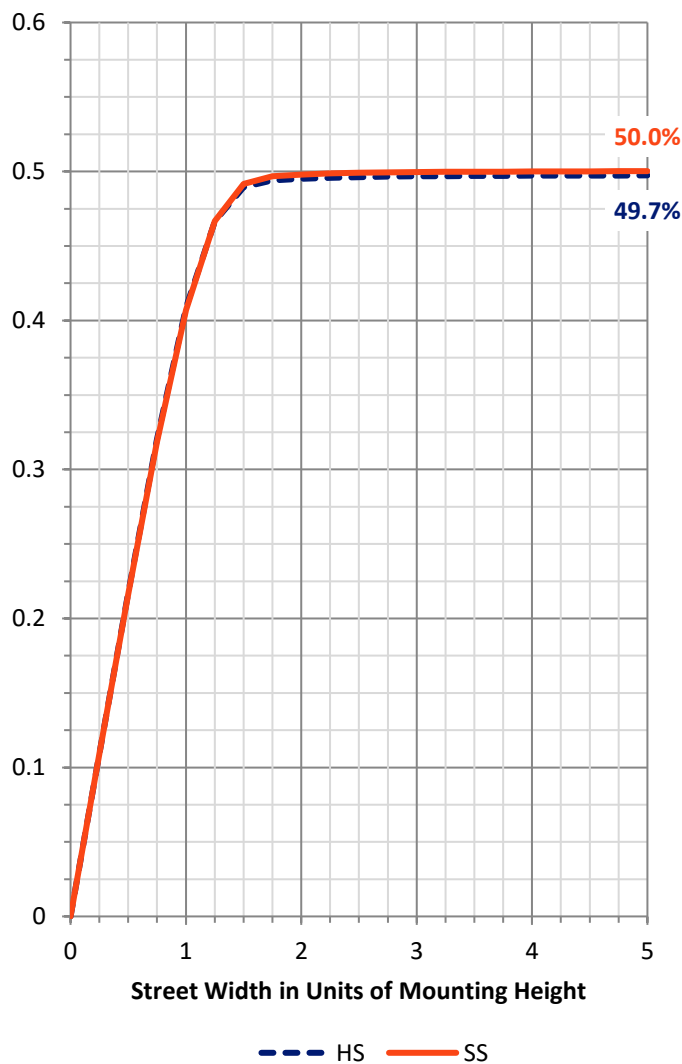
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9888.5	0.0	9888.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9888.5	0.0	9888.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19777.0	0.0	19777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.4
10°-20°	940.1	4.8
20°-30°	1920.1	9.7
30°-40°	3661.7	18.5
40°-50°	6170.5	31.2
50°-60°	5884.6	29.8
60°-70°	821.5	4.2
70°-80°	78.6	0.4
80°-90°	27.1	0.1
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°	19777.0	100.0
0°-180°	19777.0	100.0

Coefficient of Utilization



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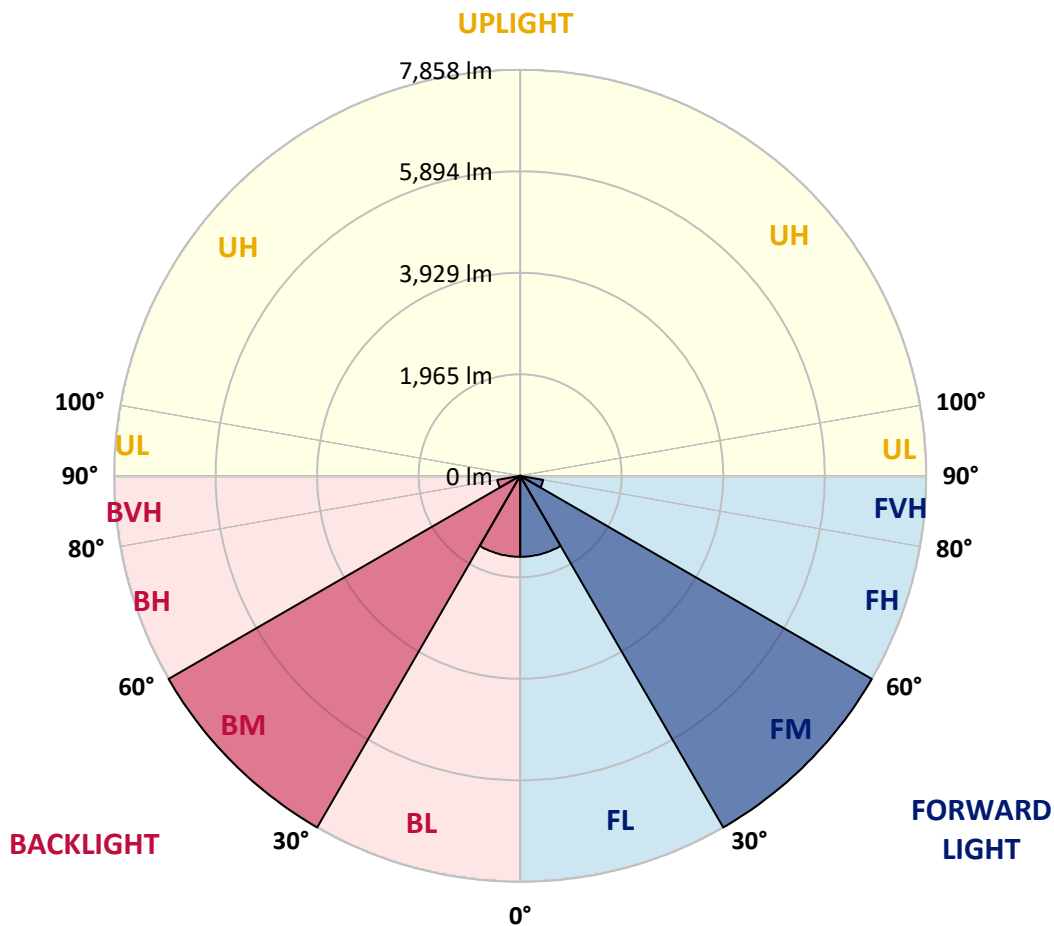
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.5	7.9			
FM (30°-60°)	7858.4	39.7			
FH (60°-80°)	450.0	2.3			G0/660
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	1566.5	7.9	B3/2500		
BM (30°-60°)	7858.4	39.7	B4/8500		
BH (60°-80°)	450.0	2.3	B1/500		G0/660
BVH (80°-90°)	13.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2731.9	2731.9	2728.6	2755.2	2741.9	2771.8	2768.5	2778.5	2788.4	2785.1	2811.7
5°	2708.6	2705.3	2705.3	2735.2	2765.2	2798.4	2828.4	2848.3	2881.6	2881.6	2914.9
7.5°	2731.9	2715.2	2738.5	2751.8	2808.4	2865.0	2914.9	2954.8	3031.4	3058.0	3048.0
10°	2738.5	2758.5	2775.1	2815.1	2884.9	2971.5	3014.7	3114.5	3201.1	3261.0	3274.3
12.5°	2781.8	2811.7	2858.3	2954.8	3018.0	3131.2	3191.1	3287.6	3407.4	3473.9	3520.5
15°	2865.0	2875.0	2934.9	3058.0	3194.4	3297.6	3390.7	3460.6	3577.1	3653.6	3656.9
17.5°	2971.5	3014.7	3097.9	3214.4	3357.5	3510.5	3583.7	3660.3	3703.5	3806.7	3830.0
20°	3184.4	3191.1	3270.9	3424.0	3603.7	3743.4	3796.7	3836.6	3820.0	3926.5	3946.4
22.5°	3384.1	3390.7	3490.6	3696.9	3889.9	4009.6	4032.9	4009.6	3959.7	4036.3	4042.9
25°	3587.0	3646.9	3720.1	3926.5	4166.0	4325.8	4329.1	4265.9	4162.7	4176.0	4209.3
27.5°	3903.2	3946.4	4023.0	4212.6	4475.5	4655.2	4625.2	4548.7	4415.6	4425.6	4415.6
30°	4272.5	4312.4	4375.7	4618.6	4811.6	5007.9	5051.2	4977.9	4778.3	4735.0	4785.0
32.5°	4718.4	4775.0	4891.4	5114.4	5277.4	5397.2	5427.2	5400.5	5214.2	5197.6	5230.8
35°	5260.8	5337.3	5443.8	5640.1	5773.2	5989.5	5989.5	5899.7	5730.0	5749.9	5746.6
37.5°	5833.1	5946.3	6112.6	6312.3	6492.0	6608.4	6571.8	6495.3	6325.6	6282.3	6325.6
40°	6551.9	6608.4	6818.1	7077.6	7297.2	7430.3	7273.9	7107.5	6701.6	6764.8	6881.3
42.5°	7207.4	7297.2	7456.9	7743.1	7992.7	8102.5	7916.1	7586.7	7097.6	7047.7	7134.2
45°	7766.4	7862.9	8072.5	8481.8	8744.7	8841.2	8428.6	7896.2	7337.1	7210.7	7247.3
47.5°	8139.1	8189.0	8481.8	8871.1	9110.7	9330.3	8738.0	8109.1	7450.3	7210.7	7197.4
50°	7996.0	8082.5	8425.2	8867.8	9303.7	9460.1	8894.4	8272.2	7486.9	7180.8	7140.8
52.5°	7100.9	7250.6	7633.3	8228.9	8887.8	9446.8	9110.7	8218.9	7473.6	7210.7	7270.6
55°	4941.3	4944.7	5410.5	6289.0	7453.6	8771.3	8794.6	8278.8	7560.1	7397.0	7400.4
57.5°	1986.5	2086.3	2442.4	3324.2	4399.0	6022.8	7160.8	7679.9	7570.1	7530.1	7633.3
60°	502.5	505.8	615.6	938.4	1547.3	2582.1	3750.1	5074.4	5843.1	6106.0	6142.6
62.5°	256.2	259.5	286.2	332.8	422.6	692.1	1231.2	1953.2	2778.5	3197.7	3307.5
65°	209.6	209.6	226.3	249.6	252.9	266.2	319.4	455.9	662.2	752.0	762.0
67.5°	159.7	159.7	173.0	186.3	193.0	189.7	183.0	189.7	229.6	219.6	213.0
70°	99.8	103.2	109.8	123.1	129.8	133.1	136.4	143.1	163.0	169.7	163.0
72.5°	59.9	59.9	63.2	73.2	83.2	89.8	99.8	106.5	116.5	133.1	129.8
75°	26.6	26.6	33.3	43.3	53.2	63.2	73.2	83.2	89.8	99.8	103.2
77.5°	6.7	10.0	16.6	29.9	39.9	53.2	66.6	76.5	83.2	83.2	79.9
80°	3.3	3.3	13.3	23.3	43.3	56.6	73.2	79.9	89.8	83.2	73.2
82.5°	3.3	3.3	13.3	23.3	39.9	56.6	76.5	86.5	93.2	83.2	69.9
85°	0.0	3.3	10.0	20.0	33.3	39.9	33.3	23.3	13.3	13.3	10.0
87.5°	0.0	0.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)