

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: P531577

Luminaire Tested: **GALN-SA6D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23166 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

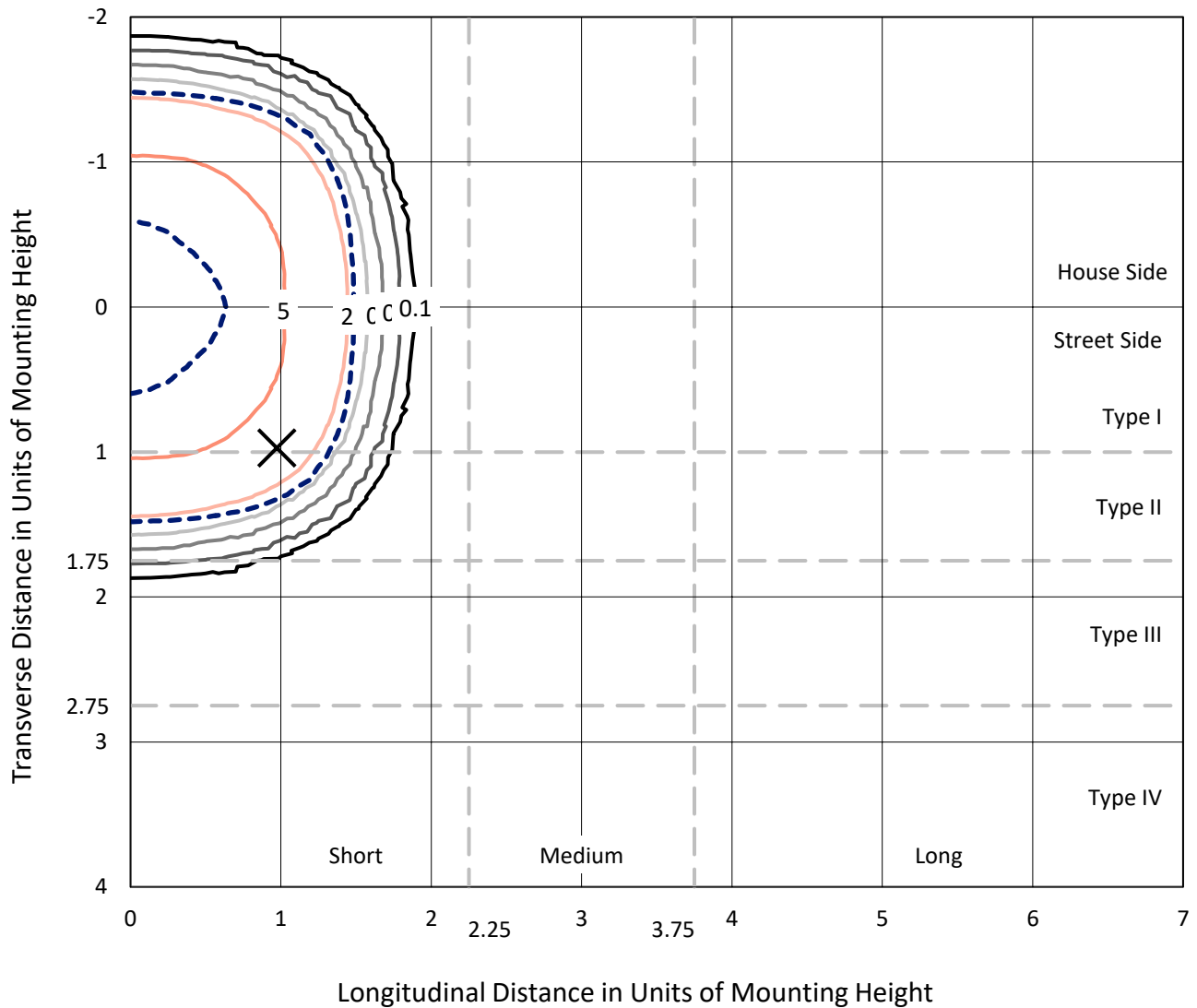
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

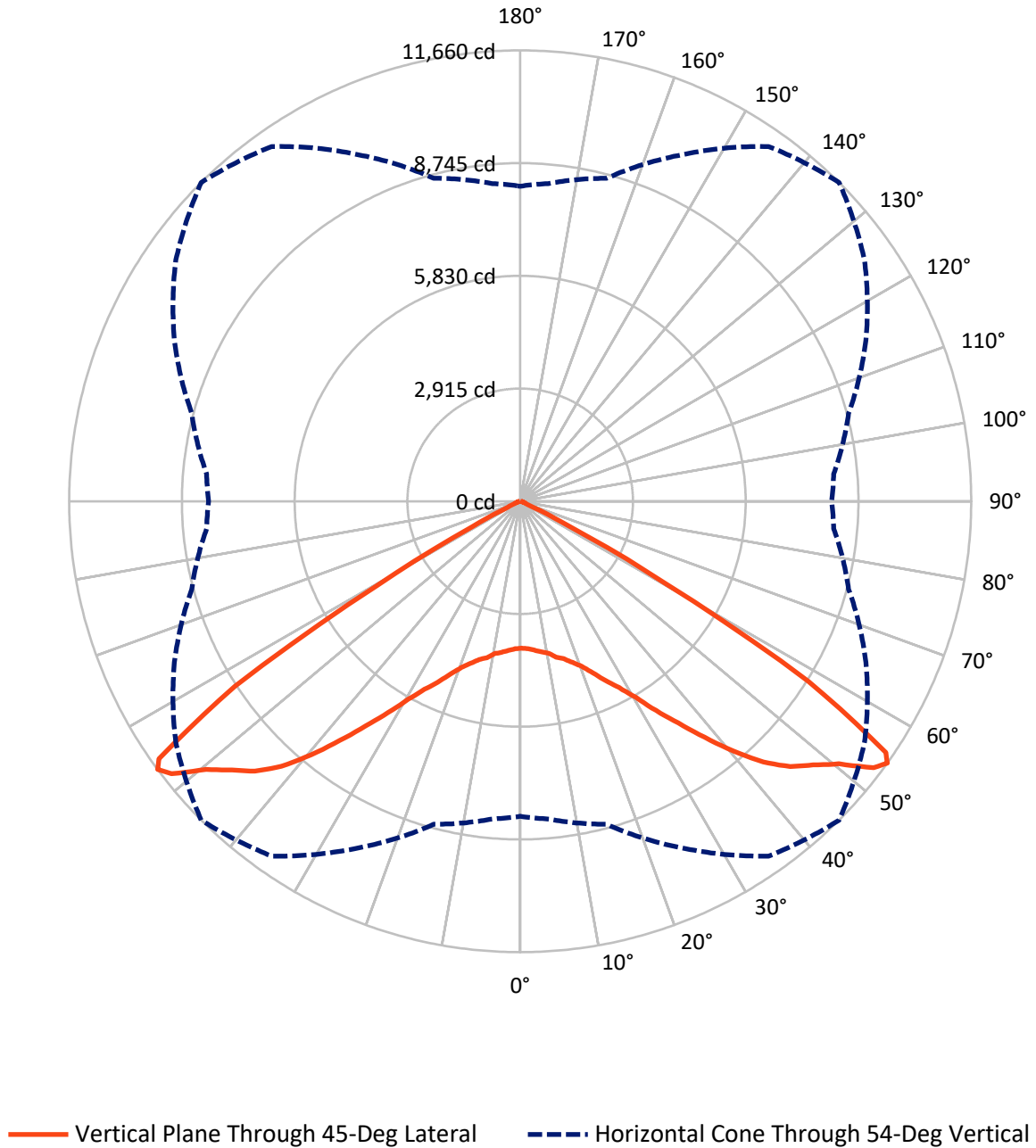
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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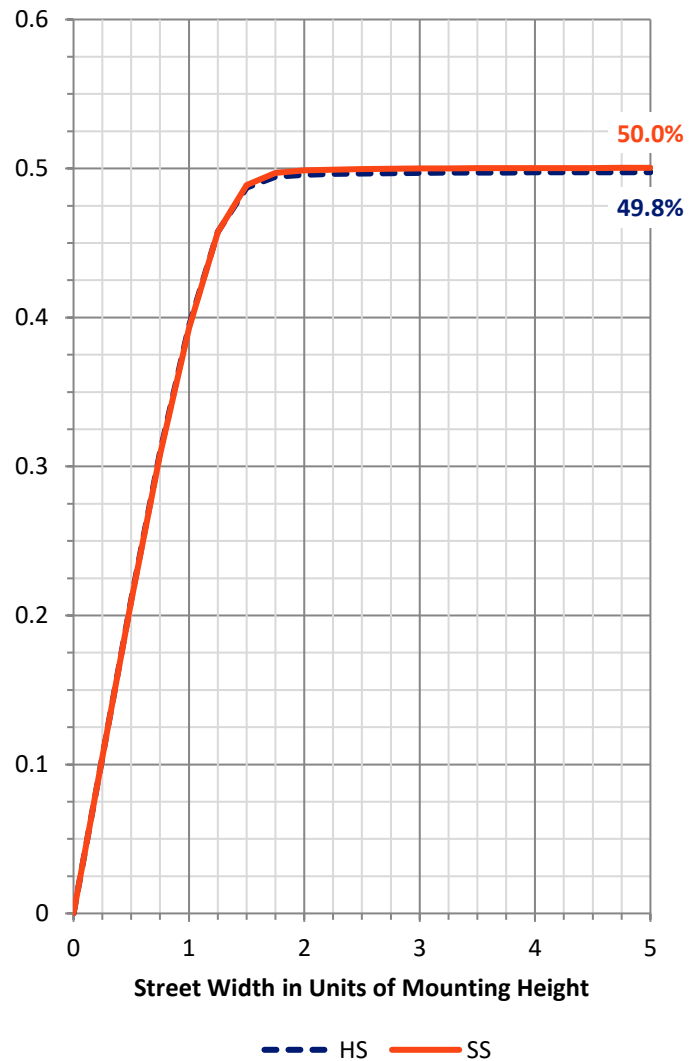
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11583.0	0.0	11583.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11583.0	0.0	11583.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23166.0	0.0	23166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	1.6
10°-20°	1204.0	5.2
20°-30°	2359.7	10.2
30°-40°	4243.3	18.3
40°-50°	7263.7	31.4
50°-60°	7028.3	30.3
60°-70°	601.7	2.6
70°-80°	71.3	0.3
80°-90°	22.4	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°	23166.0	100.0
0°-180°	23166.0	100.0

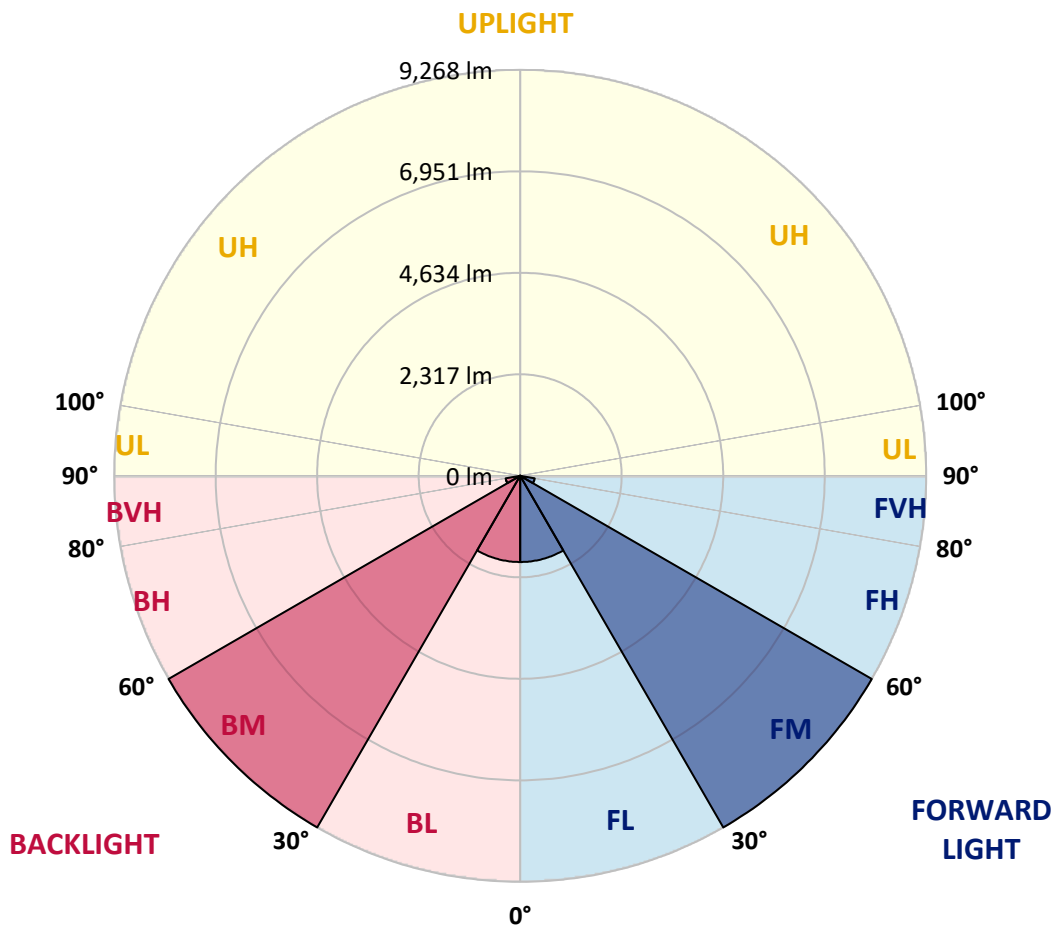


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.7	8.5			
FM (30°-60°)	9267.6	40.0			
FH (60°-80°)	336.5	1.5			G0/660
FVH (80°-90°)	11.2	0.0			G1/100
BL (0°-30°)	1967.7	8.5	B3/2500		
BM (30°-60°)	9267.6	40.0	B5		
BH (60°-80°)	336.5	1.5	B1/500		G0/660
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3798.5	3798.5	3798.5	3798.5	3798.5	3798.5	3798.5	3798.5	3798.5	3798.5	3798.5
2.5°	3816.9	3838.9	3824.2	3835.2	3835.2	3816.9	3827.9	3783.8	3813.2	3791.2	3794.8
5°	3875.6	3871.9	3871.9	3875.6	3860.9	3868.2	3853.6	3838.9	3827.9	3813.2	3857.2
7.5°	3949.0	3949.0	3923.3	3930.6	3923.3	3934.3	3904.9	3875.6	3864.6	3853.6	3846.2
10°	4018.7	4011.4	4000.4	4033.4	4007.7	3993.0	3978.3	3960.0	3919.6	3904.9	3890.3
12.5°	4121.5	4117.8	4103.1	4136.1	4121.5	4136.1	4081.1	4033.4	4026.0	3978.3	4004.0
15°	4242.6	4275.6	4249.9	4249.9	4242.6	4224.2	4202.2	4180.2	4114.1	4095.8	4099.4
17.5°	4400.4	4389.4	4393.1	4393.1	4429.8	4382.0	4338.0	4282.9	4249.9	4238.9	4202.2
20°	4550.9	4565.5	4561.9	4587.6	4609.6	4558.2	4510.5	4503.2	4411.4	4426.1	4374.7
22.5°	4815.1	4804.1	4822.4	4840.8	4826.1	4818.8	4774.7	4719.7	4638.9	4602.2	4594.9
25°	5094.0	5075.7	5042.6	5086.7	5108.7	5141.7	5057.3	5028.0	4903.2	4848.1	4851.8
27.5°	5332.6	5358.3	5395.0	5413.3	5468.4	5457.4	5398.6	5303.2	5207.8	5145.4	5105.0
30°	5659.2	5673.9	5736.3	5762.0	5857.4	5883.1	5791.3	5681.2	5512.4	5431.7	5384.0
32.5°	5960.2	6062.9	6059.3	6187.7	6341.8	6448.3	6283.1	6114.3	5945.5	5850.1	5765.6
35°	6448.3	6429.9	6536.4	6672.2	6921.7	7042.8	6863.0	6668.5	6411.6	6257.4	6191.4
37.5°	6903.4	6910.7	7053.8	7270.4	7556.6	7743.8	7586.0	7266.7	7002.5	6804.3	6712.5
40°	7564.0	7578.7	7725.5	7971.3	8294.3	8496.2	8312.7	7989.7	7637.4	7483.2	7483.2
42.5°	8338.4	8400.7	8496.2	8709.0	8999.0	9222.8	9057.7	8804.5	8448.5	8250.3	8279.6
45°	9134.8	9164.1	9226.5	9542.1	9677.9	9788.0	9633.9	9516.4	9277.9	9035.7	8995.3
47.5°	9879.8	9890.8	10074.3	10173.4	10279.8	10188.1	10287.2	10133.0	9865.1	9630.2	9582.5
50°	10210.1	10191.7	10452.3	10753.2	10834.0	10672.5	10588.1	10485.3	10078.0	9795.4	9670.6
52.5°	9248.5	9355.0	9839.4	10676.2	11307.4	11443.2	10951.4	10478.0	9718.3	9167.8	9083.4
54°	8147.5	8246.6	8646.6	9887.1	11201.0	11659.8	10867.0	9861.4	8789.8	8136.5	8052.1
55°	7057.5	6947.4	7674.1	8940.2	10701.9	11468.9	10533.0	9065.0	7839.2	7241.0	7123.6
57.5°	3820.5	3838.9	4451.8	5648.2	7519.9	8793.4	7765.8	6132.7	4631.6	3960.0	3901.3
60°	1211.1	1240.5	1508.4	2282.8	3593.0	4290.3	3677.4	2462.6	1702.9	1365.3	1310.2
62.5°	378.0	392.7	429.4	638.6	983.6	1405.6	1101.0	660.6	491.8	451.4	458.8
65°	231.2	231.2	234.9	249.6	293.6	341.3	330.3	289.9	278.9	271.6	267.9
67.5°	150.5	146.8	154.1	165.2	172.5	176.2	187.2	198.2	194.5	187.2	187.2
70°	91.8	88.1	95.4	110.1	113.8	121.1	132.1	146.8	143.1	135.8	139.5
72.5°	51.4	51.4	55.1	66.1	77.1	84.4	95.4	106.4	110.1	106.4	106.4
75°	18.4	22.0	29.4	40.4	47.7	58.7	69.7	80.7	91.8	84.4	80.7
77.5°	7.3	7.3	14.7	25.7	36.7	47.7	66.1	77.1	84.4	77.1	69.7
80°	3.7	3.7	11.0	22.0	33.0	44.0	55.1	66.1	69.7	62.4	55.1
82.5°	3.7	3.7	11.0	22.0	33.0	40.4	58.7	66.1	73.4	66.1	55.1
85°	0.0	3.7	11.0	22.0	29.4	33.0	33.0	22.0	18.4	11.0	11.0
87.5°	0.0	0.0	3.7	0.0	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)