

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: P533294

Luminaire Tested: **GALN-SA8D-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47056 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

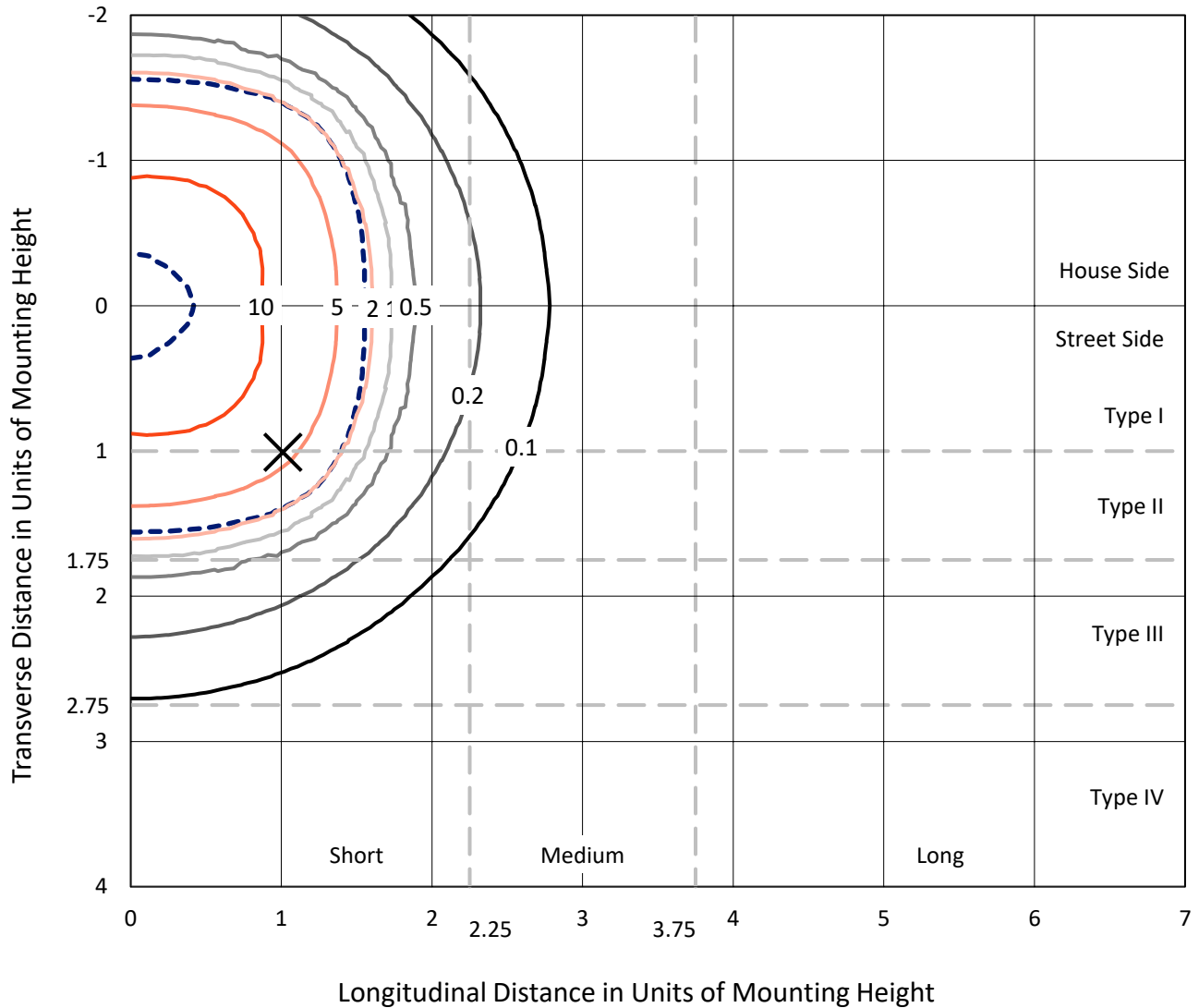
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

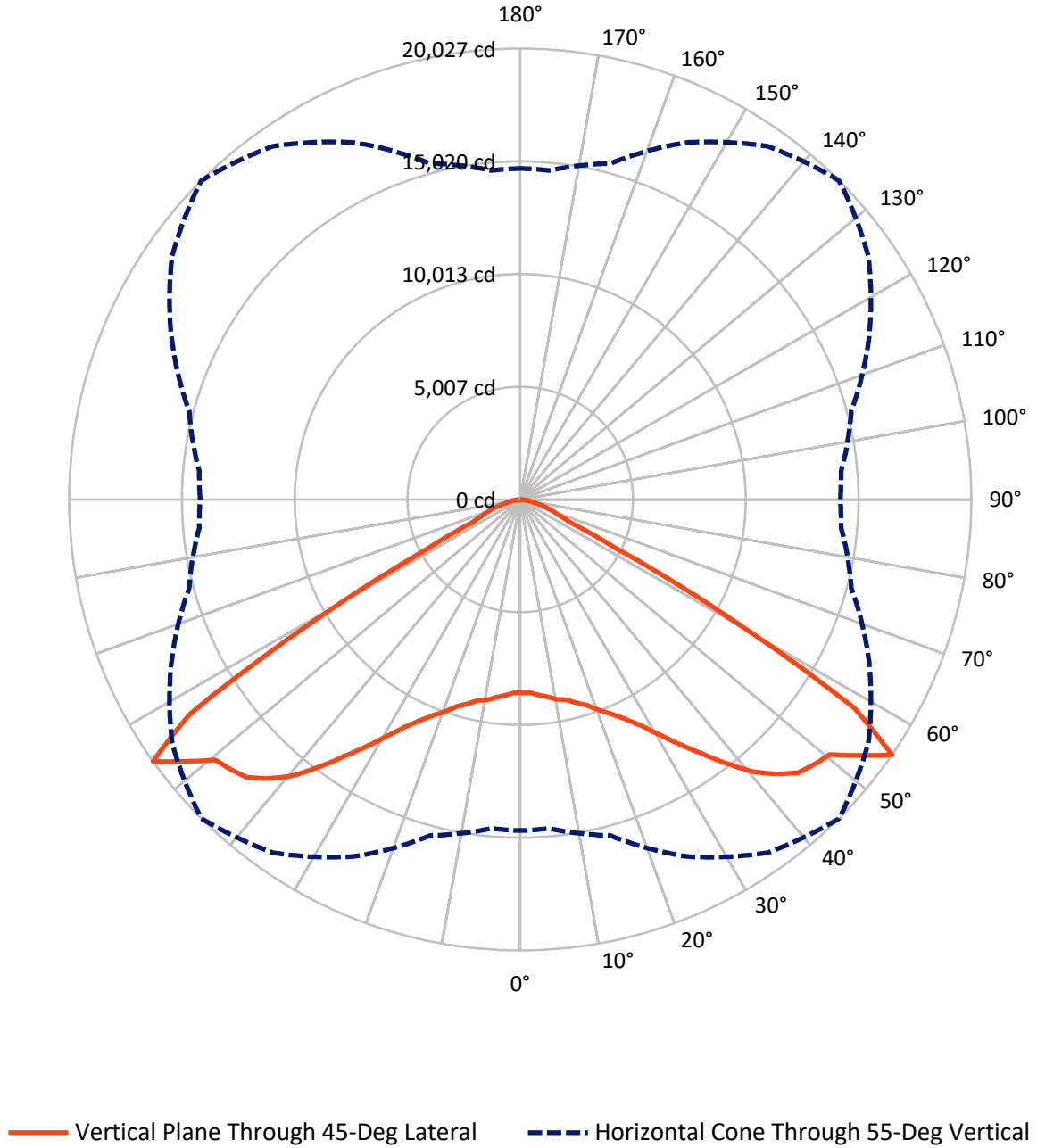
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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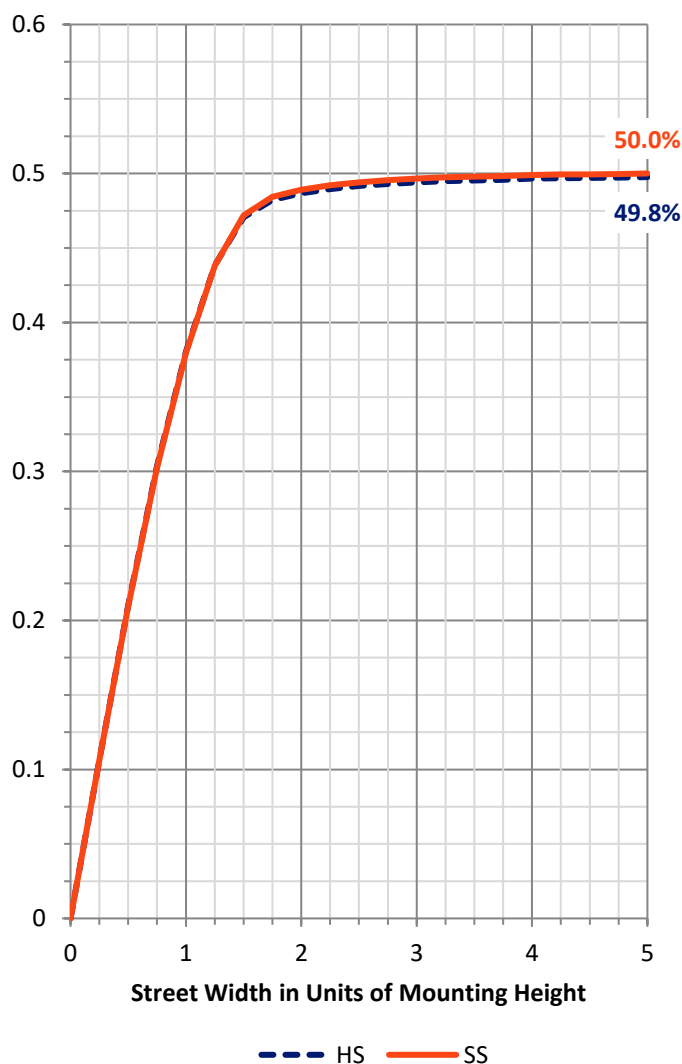
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23528.0	0.0	23528.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23528.0	0.0	23528.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47056.0	0.0	47056.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.3	1.8
10°-20°	2659.4	5.7
20°-30°	4959.0	10.5
30°-40°	8302.9	17.6
40°-50°	12920.0	27.5
50°-60°	13415.1	28.5
60°-70°	2844.9	6.0
70°-80°	936.9	2.0
80°-90°	178.4	0.4
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°	47056.0	100.0
0°-180°	47056.0	100.0

**Coefficient of Utilization**

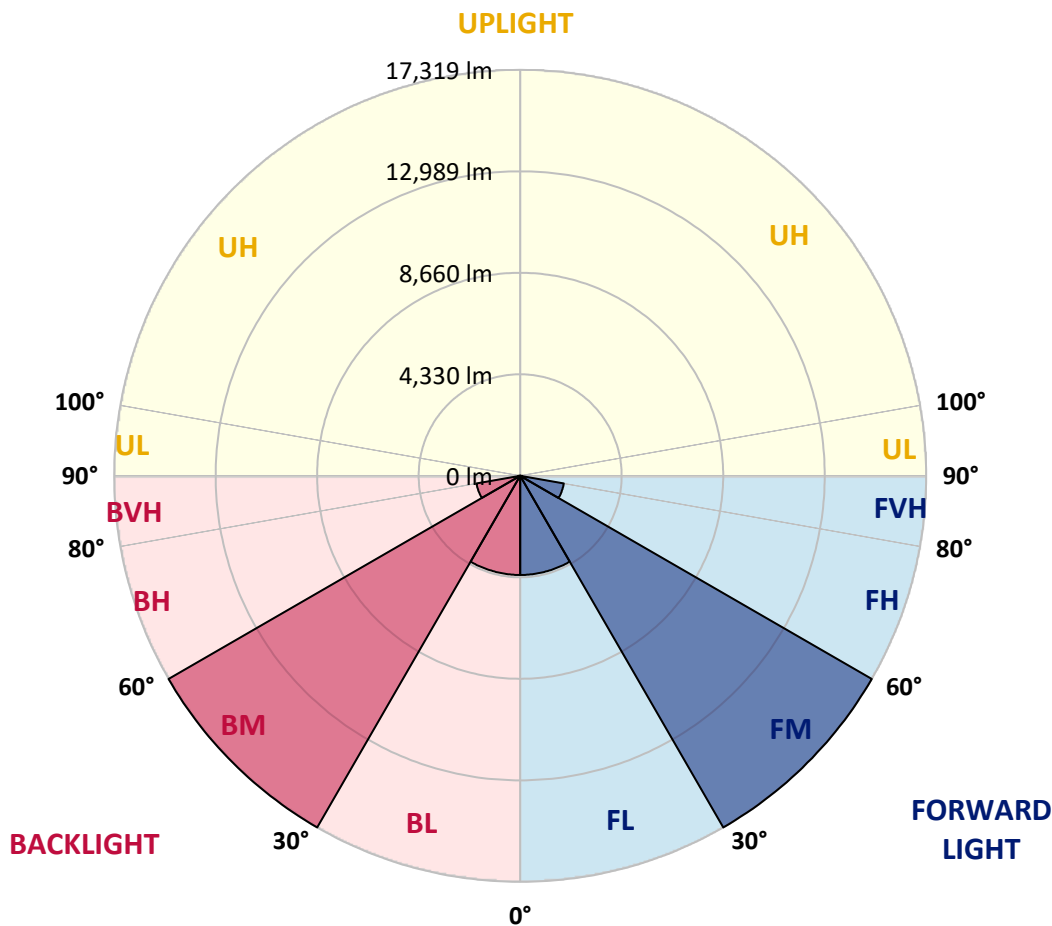


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4228.9	9.0			
FM (30°-60°)	17319.0	36.8			
FH (60°-80°)	1890.9	4.0			G2/5000
FVH (80°-90°)	89.2	0.2			G1/100
BL (0°-30°)	4228.9	9.0	B4/5000		
BM (30°-60°)	17319.0	36.8	B5		
BH (60°-80°)	1890.9	4.0	B3/2500		G2/5000
BVH (80°-90°)	89.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8591.7	8591.7	8591.7	8591.7	8591.7	8591.7	8591.7	8591.7	8591.7	8591.7	8591.7
2.5°	8694.1	8654.3	8586.0	8637.2	8677.0	8591.7	8625.8	8642.9	8631.5	8586.0	8603.1
5°	8819.2	8796.4	8739.6	8779.4	8728.2	8728.2	8694.1	8648.6	8716.8	8705.4	8733.9
7.5°	8819.2	8790.7	8904.5	8830.5	8853.3	8853.3	8796.4	8750.9	8785.1	8733.9	8705.4
10°	8995.4	9035.2	8984.1	9001.1	8989.8	9029.6	8944.3	8915.8	8887.4	8870.3	8836.2
12.5°	9205.8	9177.4	9194.5	9183.1	9222.9	9120.5	9069.4	9006.8	9058.0	8984.1	9035.2
15°	9376.4	9359.3	9376.4	9421.9	9382.1	9376.4	9285.4	9222.9	9143.3	9160.3	9080.7
17.5°	9609.5	9592.5	9598.2	9638.0	9632.3	9603.9	9535.6	9416.2	9387.8	9342.3	9291.1
20°	9956.4	9928.0	9916.6	9933.6	9962.1	9984.8	9848.4	9802.9	9706.2	9632.3	9547.0
22.5°	10252.1	10240.7	10286.2	10212.3	10274.8	10343.0	10212.3	10189.5	9950.7	9910.9	9819.9
25°	10661.5	10644.4	10616.0	10724.0	10797.9	10792.3	10667.2	10542.1	10360.1	10314.6	10314.6
27.5°	11093.6	10997.0	11144.8	11173.2	11304.0	11343.8	11235.8	11053.8	10883.2	10786.6	10809.3
30°	11633.8	11542.8	11576.9	11781.6	11952.2	12100.1	11827.1	11559.9	11321.1	11150.5	11122.0
32.5°	12174.0	12083.0	12185.4	12384.4	12725.5	12947.3	12680.0	12213.8	11935.2	11685.0	11736.1
35°	12611.8	12680.0	12844.9	13146.3	13498.8	13857.1	13430.6	13072.4	12674.4	12395.7	12435.5
37.5°	13316.9	13527.3	13658.1	14004.9	14505.3	14874.9	14431.4	13965.1	13538.6	13174.7	13049.6
40°	14238.0	14380.2	14528.0	14937.4	15528.8	15898.4	15477.6	14869.2	14448.4	14073.1	14056.1
42.5°	15250.2	15386.6	15540.2	16040.5	16393.1	16671.7	16285.0	15960.9	15494.7	15199.0	15181.9
45°	16427.2	16330.5	16501.1	16830.9	17126.6	17308.5	17058.4	16899.1	16563.7	16290.7	16262.3
47.5°	17211.9	17126.6	17433.6	17729.3	17774.8	17575.8	17627.0	17774.8	17422.3	16973.1	17115.2
50°	17666.8	17666.8	17871.5	18144.4	18059.1	17803.2	18206.9	18218.3	17865.8	17467.8	17467.8
52.5°	16876.4	17052.7	17632.7	18525.4	18809.7	18883.6	18792.6	18406.0	17484.8	16671.7	16631.9
55°	14704.3	14664.5	15449.2	17496.2	19150.8	20026.5	18866.5	17086.8	15216.1	14300.6	14209.6
57.5°	9564.0	9609.5	10780.9	12867.7	15852.9	17484.8	15528.8	13026.9	10780.9	9518.6	9638.0
60°	4304.4	4457.9	5168.7	6726.7	9291.1	10621.7	9313.9	7067.8	5424.6	4708.1	4770.7
62.5°	2473.5	2501.9	2530.3	3002.3	3957.5	4679.7	4111.1	3172.9	2797.6	2672.5	2672.5
65°	2086.8	2069.7	2075.4	2115.2	2217.6	2365.4	2302.9	2217.6	2229.0	2217.6	2200.5
67.5°	1774.1	1796.8	1779.8	1808.2	1813.9	1836.6	1876.4	1910.5	1916.2	1927.6	1916.2
70°	1455.6	1461.3	1472.7	1495.4	1501.1	1518.2	1575.1	1603.5	1620.5	1620.5	1643.3
72.5°	1114.5	1108.8	1120.2	1142.9	1171.3	1177.0	1228.2	1268.0	1290.7	1262.3	1268.0
75°	733.5	739.2	756.3	773.3	813.1	852.9	870.0	909.8	915.5	926.8	898.4
77.5°	437.8	449.2	466.3	500.4	534.5	568.6	608.4	636.8	648.2	636.8	602.7
80°	284.3	284.3	307.1	335.5	375.3	403.7	426.5	449.2	466.3	449.2	437.8
82.5°	176.3	176.3	204.7	238.8	267.2	284.3	318.4	346.9	363.9	352.5	335.5
85°	91.0	96.7	119.4	147.8	170.6	182.0	176.3	159.2	142.2	136.5	125.1
87.5°	28.4	28.4	34.1	34.1	28.4	28.4	34.1	28.4	34.1	34.1	34.1
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)