

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: P533346

Luminaire Tested: **GALN-SA8D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533346  
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-735-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 52414 lumens  
Efficiency: N/A  
Efficacy: 106.3 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

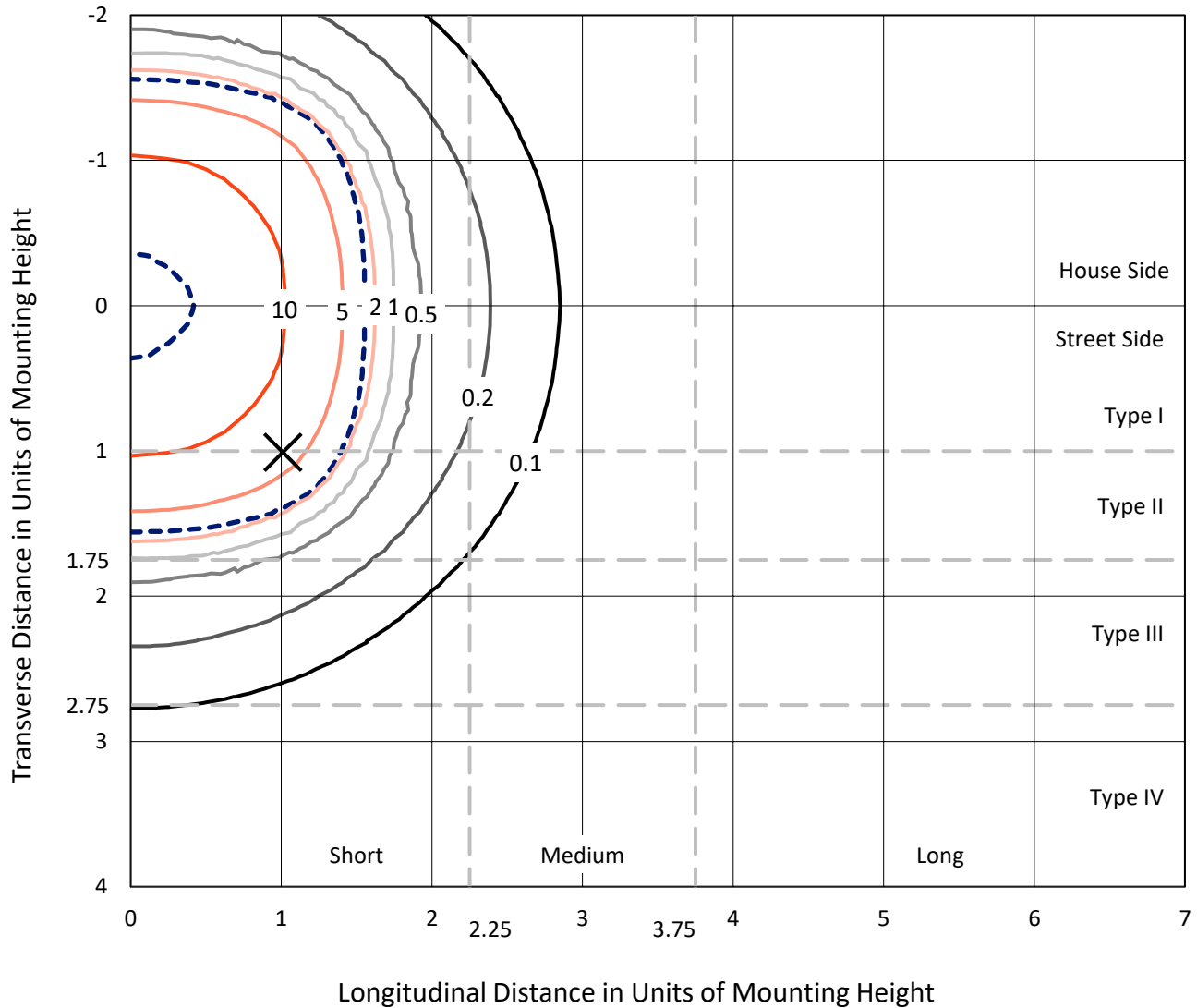
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

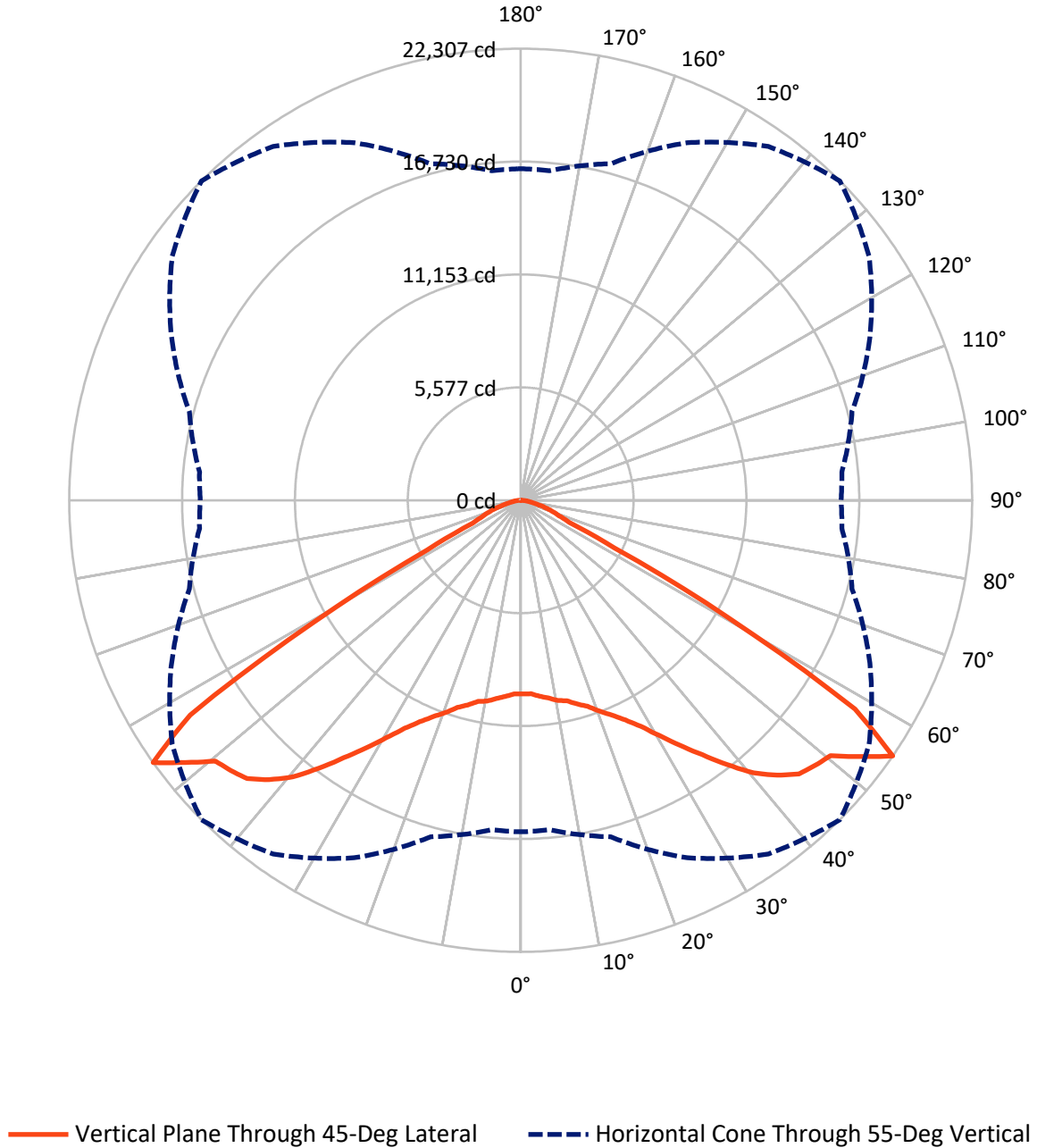
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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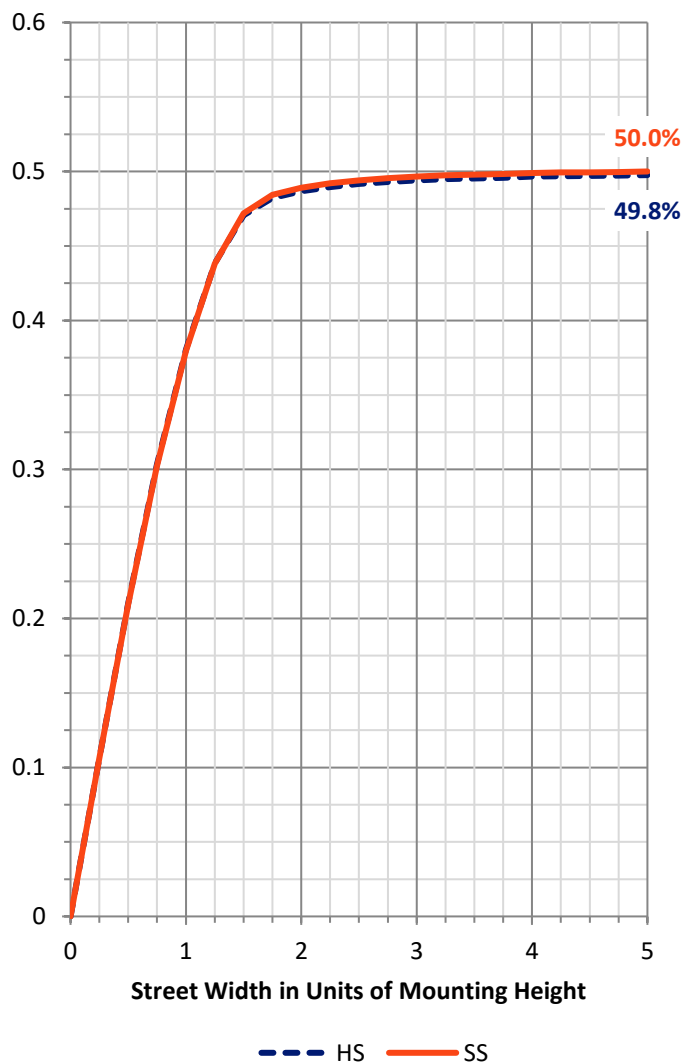
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26207.0	0.0	26207.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26207.0	0.0	26207.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52414.0	0.0	52414.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	934.9	1.8
10°-20°	2962.2	5.7
20°-30°	5523.6	10.5
30°-40°	9248.4	17.6
40°-50°	14391.2	27.5
50°-60°	14942.5	28.5
60°-70°	3168.8	6.0
70°-80°	1043.6	2.0
80°-90°	198.7	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°	52414.0	100.0
0°-180°	52414.0	100.0

**Coefficient of Utilization**

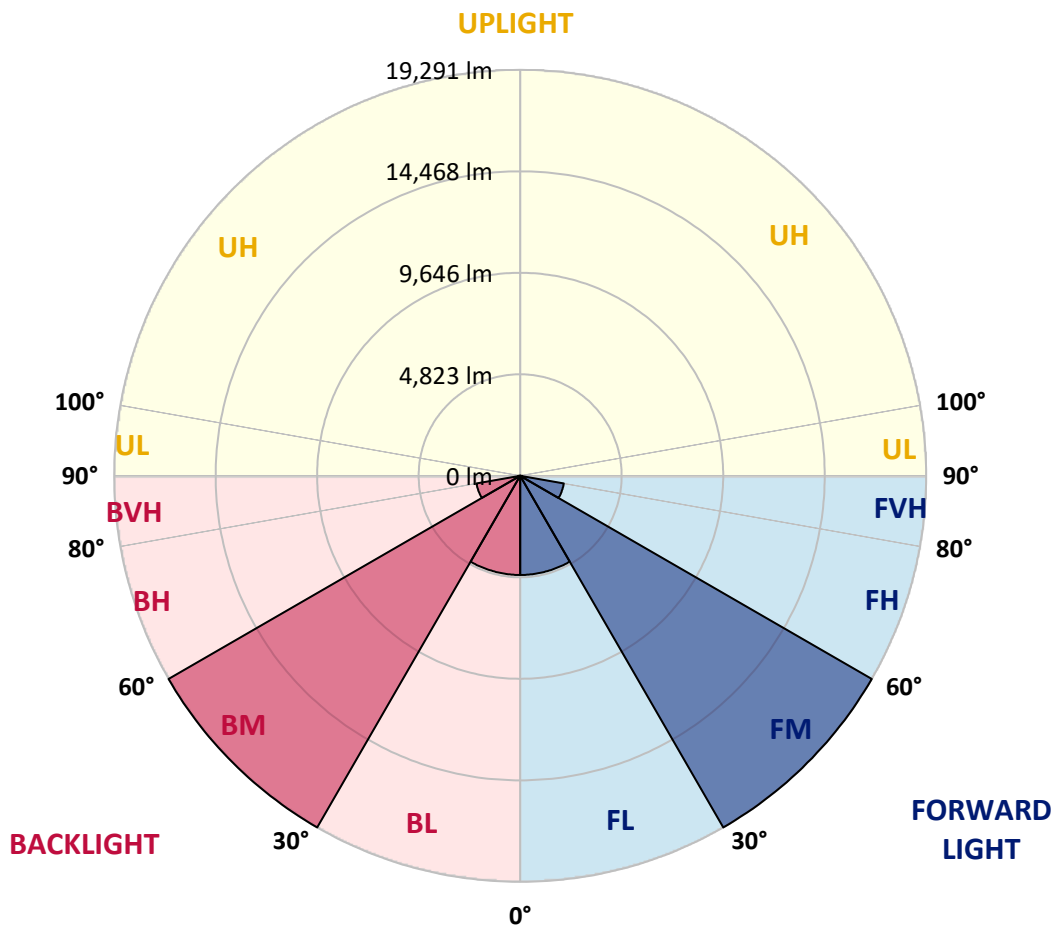


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4710.4	9.0			
FM (30°-60°)	19291.0	36.8			
FH (60°-80°)	2106.2	4.0			G2/5000
FVH (80°-90°)	99.4	0.2			G1/100
BL (0°-30°)	4710.4	9.0	B4/5000		
BM (30°-60°)	19291.0	36.8	B5		
BH (60°-80°)	2106.2	4.0	B3/2500		G2/5000
BVH (80°-90°)	99.4	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°	9570.0	9570.0	9570.0	9570.0	9570.0	9570.0	9570.0	9570.0	9570.0	9570.0	9570.0
2.5°	9684.0	9639.7	9563.7	9620.7	9665.0	9570.0	9608.0	9627.0	9614.3	9563.7	9582.7
5°	9823.4	9798.0	9734.7	9779.0	9722.0	9722.0	9684.0	9633.4	9709.4	9696.7	9728.4
7.5°	9823.4	9791.7	9918.4	9836.0	9861.4	9861.4	9798.0	9747.4	9785.4	9728.4	9696.7
10°	10019.7	10064.0	10007.0	10026.0	10013.4	10057.7	9962.7	9931.0	9899.4	9880.4	9842.4
12.5°	10254.0	10222.4	10241.4	10228.7	10273.0	10159.0	10102.0	10032.4	10089.4	10007.0	10064.0
15°	10444.0	10425.0	10444.0	10494.7	10450.4	10444.0	10342.7	10273.0	10184.4	10203.4	10114.7
17.5°	10703.7	10684.7	10691.1	10735.4	10729.1	10697.4	10621.4	10488.4	10456.7	10406.0	10349.0
20°	11090.1	11058.4	11045.7	11064.7	11096.4	11121.7	10969.7	10919.1	10811.4	10729.1	10634.1
22.5°	11419.4	11406.7	11457.4	11375.1	11444.7	11520.8	11375.1	11349.7	11083.7	11039.4	10938.1
25°	11875.4	11856.4	11824.8	11945.1	12027.4	12021.1	11881.8	11742.4	11539.8	11489.1	11489.1
27.5°	12356.8	12249.1	12413.8	12445.5	12591.1	12635.5	12515.1	12312.4	12122.4	12014.8	12040.1
30°	12958.5	12857.1	12895.1	13123.1	13313.2	13477.8	13173.8	12876.1	12610.1	12420.1	12388.5
32.5°	13560.2	13458.8	13572.8	13794.5	14174.5	14421.5	14123.8	13604.5	13294.2	13015.5	13072.5
35°	14047.8	14123.8	14307.5	14643.2	15035.9	15434.9	14959.9	14560.9	14117.5	13807.2	13851.5
37.5°	14833.2	15067.5	15213.2	15599.6	16156.9	16568.6	16074.6	15555.2	15080.2	14674.9	14535.5
40°	15859.2	16017.6	16182.3	16638.3	17297.0	17708.6	17240.0	16562.3	16093.6	15675.6	15656.6
42.5°	16986.6	17138.6	17309.6	17867.0	18259.7	18570.0	18139.3	17778.3	17259.0	16929.6	16910.6
45°	18297.7	18190.0	18380.0	18747.3	19076.7	19279.4	19000.7	18823.4	18449.7	18145.7	18114.0
47.5°	19171.7	19076.7	19418.7	19748.1	19798.7	19577.0	19634.0	19798.7	19406.0	18905.7	19064.0
50°	19678.4	19678.4	19906.4	20210.4	20115.4	19830.4	20280.1	20292.7	19900.1	19456.7	19456.7
52.5°	18798.0	18994.4	19640.4	20634.8	20951.4	21033.8	20932.4	20501.7	19475.7	18570.0	18525.7
55°	16378.6	16334.3	17208.3	19488.4	21331.4	22306.8	21014.8	19032.4	16948.6	15928.9	15827.6
57.5°	10653.1	10703.7	12008.4	14332.9	17658.0	19475.7	17297.0	14510.2	12008.4	10602.4	10735.4
60°	4794.5	4965.5	5757.2	7492.6	10349.0	11831.1	10374.4	7872.6	6042.2	5244.2	5313.9
62.5°	2755.1	2786.8	2818.4	3344.1	4408.2	5212.5	4579.2	3534.1	3116.1	2976.8	2976.8
65°	2324.4	2305.4	2311.8	2356.1	2470.1	2634.8	2565.1	2470.1	2482.8	2470.1	2451.1
67.5°	1976.1	2001.4	1982.4	2014.1	2020.4	2045.7	2090.1	2128.1	2134.4	2147.1	2134.4
70°	1621.4	1627.7	1640.4	1665.7	1672.1	1691.1	1754.4	1786.1	1805.1	1805.1	1830.4
72.5°	1241.4	1235.0	1247.7	1273.0	1304.7	1311.0	1368.0	1412.4	1437.7	1406.1	1412.4
75°	817.0	823.4	842.4	861.4	905.7	950.0	969.0	1013.4	1019.7	1032.4	1000.7
77.5°	487.7	500.4	519.4	557.4	595.4	633.4	677.7	709.4	722.0	709.4	671.4
80°	316.7	316.7	342.0	373.7	418.0	449.7	475.0	500.4	519.4	500.4	487.7
82.5°	196.3	196.3	228.0	266.0	297.7	316.7	354.7	386.3	405.3	392.7	373.7
85°	101.3	107.7	133.0	164.7	190.0	202.7	196.3	177.3	158.3	152.0	139.3
87.5°	31.7	31.7	38.0	38.0	31.7	31.7	38.0	31.7	38.0	38.0	38.0
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)