

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: P533378

Luminaire Tested: **GALN-SA8D-740-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54736 lumens
Efficiency: N/A
Efficacy: 111.0 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

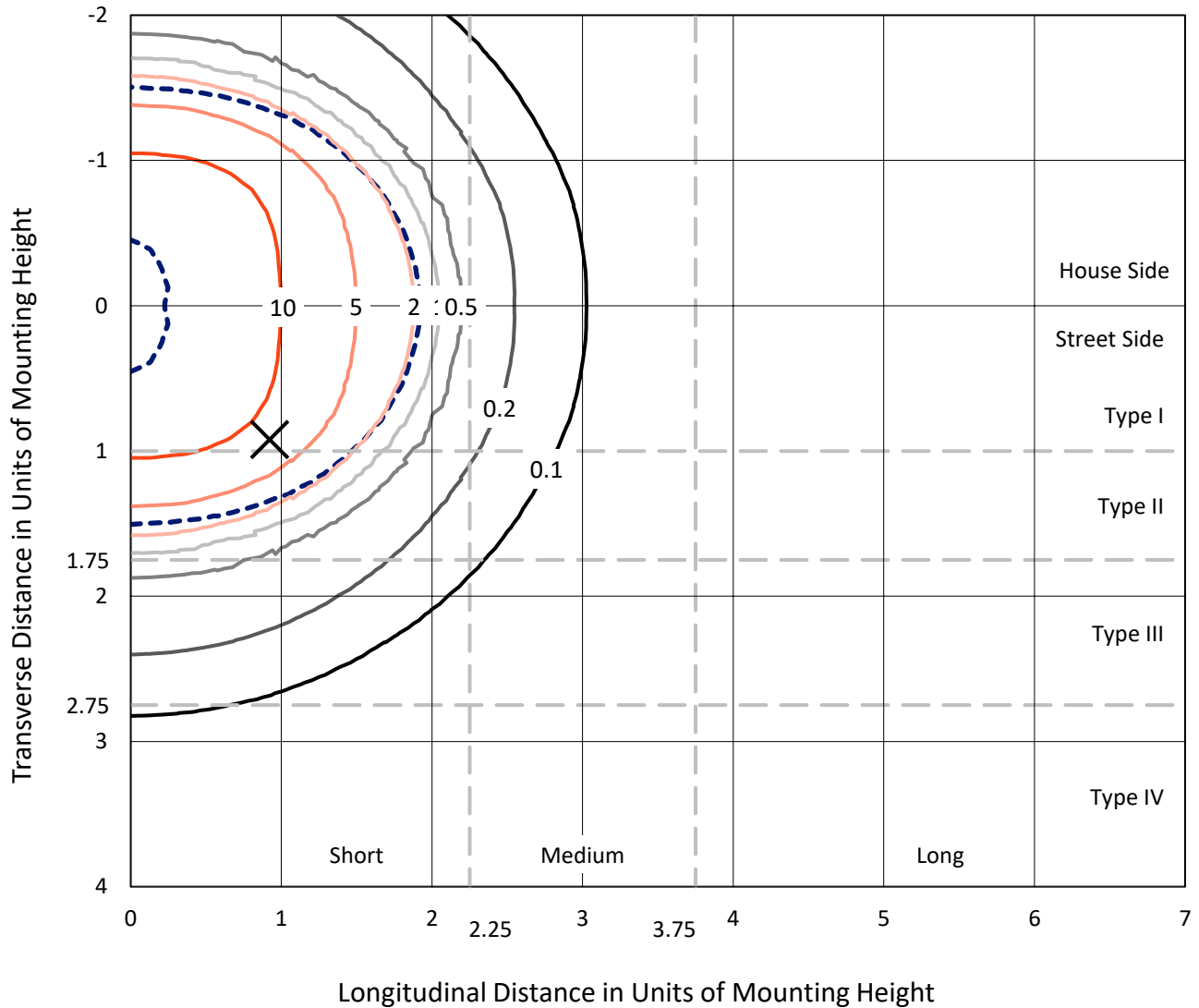
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

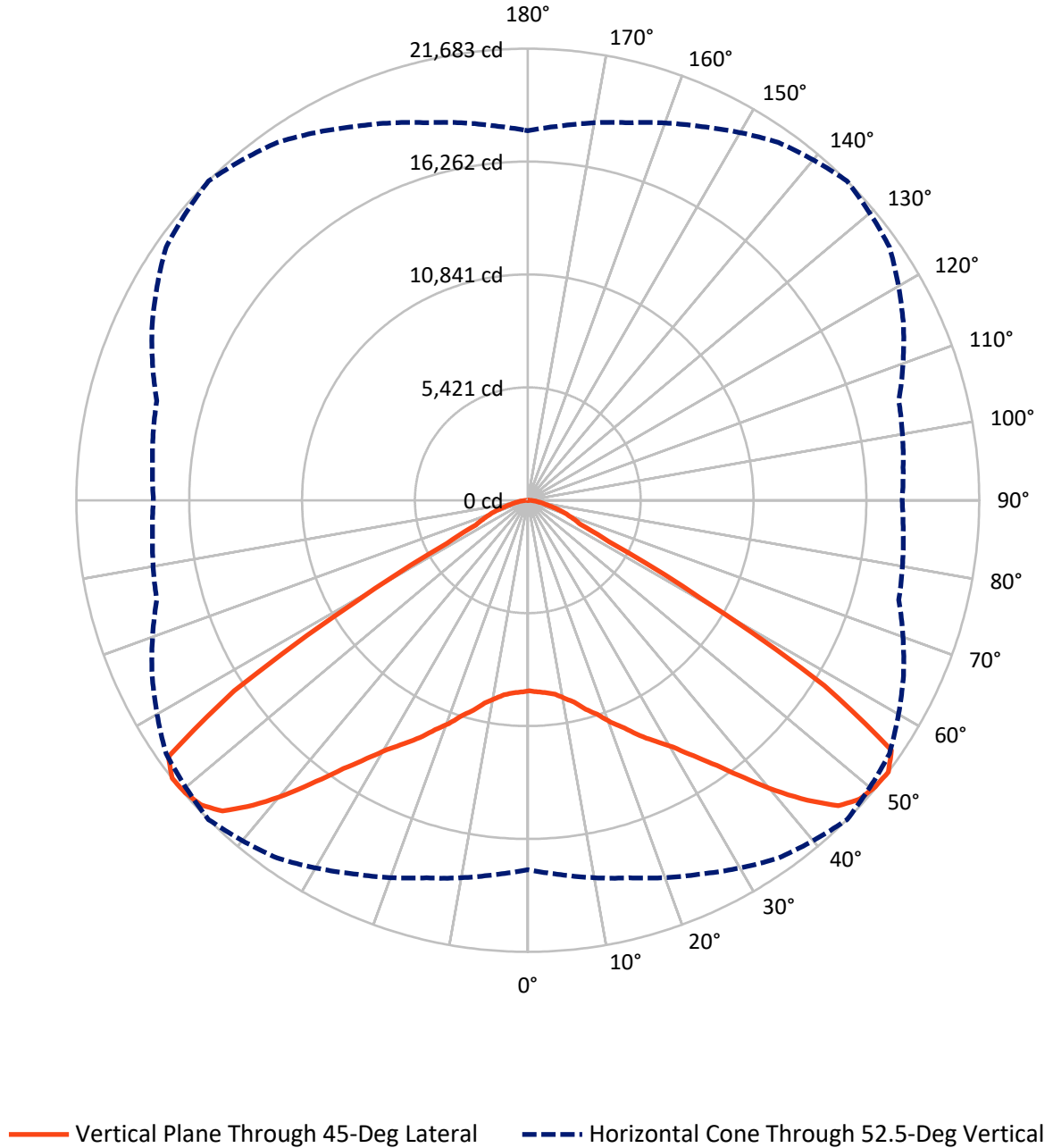
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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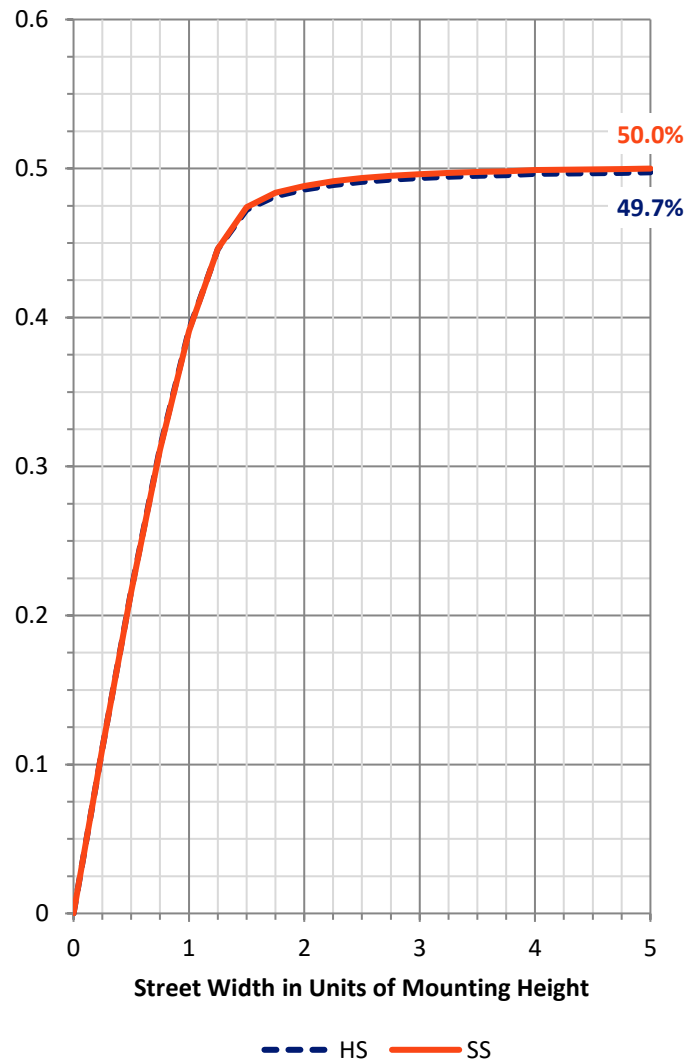
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27368.0	0.0	27368.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27368.0	0.0	27368.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54736.0	0.0	54736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.9	1.6
10°-20°	2953.9	5.4
20°-30°	5623.8	10.3
30°-40°	9656.4	17.6
40°-50°	14842.1	27.1
50°-60°	15071.9	27.5
60°-70°	4200.3	7.7
70°-80°	1239.1	2.3
80°-90°	249.6	0.5
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°	54736.0	100.0
0°-180°	54736.0	100.0



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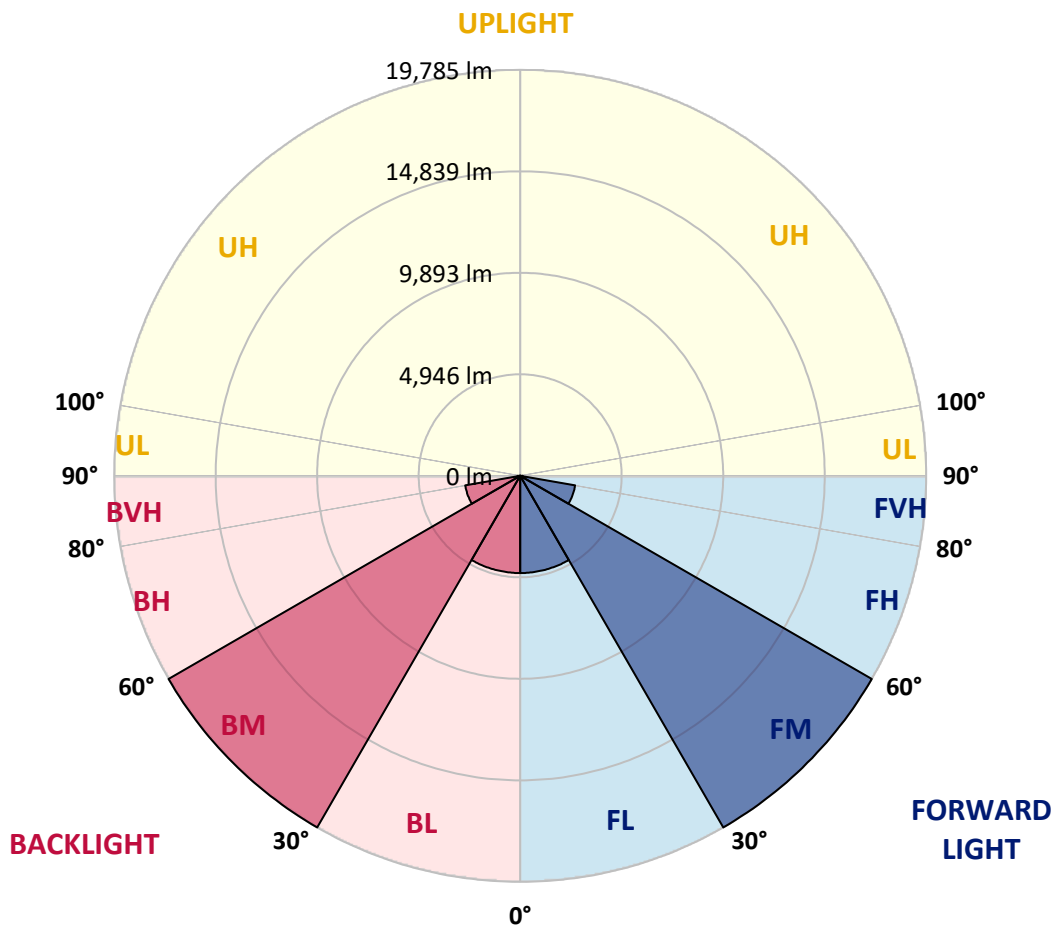
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4738.3	8.7			
FM (30°-60°)	19785.2	36.1			
FH (60°-80°)	2719.7	5.0			G2/5000
FVH (80°-90°)	124.8	0.2			G2/225
BL (0°-30°)	4738.3	8.7	B4/5000		
BM (30°-60°)	19785.2	36.1	B5		
BH (60°-80°)	2719.7	5.0	B4/5000		G2/5000
BVH (80°-90°)	124.8	0.2			G2/225
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°	9149.8	9149.8	9149.8	9149.8	9149.8	9149.8	9149.8	9149.8	9149.8	9149.8	9149.8
2.5°	9170.2	9075.1	9109.1	9129.5	9217.8	9211.0	9190.6	9217.8	9244.9	9251.7	9238.1
5°	9163.4	9095.5	9122.7	9143.1	9231.4	9278.9	9265.3	9380.8	9462.3	9441.9	9543.8
7.5°	9109.1	9149.8	9115.9	9217.8	9292.5	9408.0	9530.2	9638.9	9740.8	9856.3	9876.7
10°	9231.4	9231.4	9292.5	9374.0	9571.0	9659.3	9835.9	9992.1	10189.1	10325.0	10270.6
12.5°	9360.4	9380.8	9380.8	9591.4	9754.4	9951.4	10114.4	10325.0	10603.5	10766.5	10848.0
15°	9489.5	9503.1	9571.0	9856.3	10100.8	10413.3	10562.7	10752.9	10909.2	11214.8	11221.6
17.5°	9605.0	9679.7	9883.5	10202.7	10508.4	10807.3	11045.0	11242.0	11377.9	11500.1	11473.0
20°	10039.7	10094.0	10304.6	10623.9	11079.0	11371.1	11452.6	11486.6	11574.9	11819.4	11744.7
22.5°	10460.8	10481.2	10678.2	11167.3	11486.6	11873.7	11962.0	11941.7	11975.6	12036.8	12145.4
25°	10895.6	10929.5	11201.3	11615.6	12063.9	12525.8	12600.6	12444.3	12396.8	12464.7	12471.5
27.5°	11452.6	11459.4	11805.8	12165.8	12675.3	13110.0	13225.5	13103.2	12879.1	12933.4	13021.7
30°	12159.0	12111.5	12457.9	12974.2	13510.8	13755.3	13952.3	13891.2	13646.6	13599.1	13524.4
32.5°	12974.2	12987.8	13300.2	13864.0	14217.2	14624.8	14835.4	14733.5	14577.3	14495.7	14543.3
35°	14122.1	14183.3	14393.9	14862.6	15433.1	15636.9	15969.8	15752.4	15344.8	15446.7	15535.0
37.5°	15066.3	15242.9	15636.9	16193.9	16533.6	16907.2	17029.4	16737.4	16438.5	16316.2	16608.3
40°	16513.2	16458.9	16893.6	17450.6	17953.3	18326.9	18170.6	17878.5	17138.1	17144.9	17226.4
42.5°	17756.3	17783.4	18116.3	18782.0	19468.0	19699.0	19203.1	18489.9	17668.0	17579.7	17756.3
45°	18802.4	18911.0	19101.2	19991.1	20663.6	20914.9	19997.9	19155.6	18055.1	17688.3	17980.4
47.5°	19176.0	19352.6	19766.9	20582.1	21247.7	21451.5	20717.9	19508.8	18415.2	17817.4	17973.6
50°	19230.3	19169.2	19848.4	20595.6	21179.8	21621.3	20976.0	19766.9	18326.9	18014.4	17966.8
52.5°	17742.7	18041.6	18768.4	19794.1	20976.0	21682.5	21207.0	19909.6	18449.1	18095.9	17980.4
55°	14359.9	14006.7	15331.3	17056.6	19230.3	21193.4	21125.5	19984.3	18523.8	18231.8	18075.5
57.5°	8015.5	8117.3	8864.5	10739.3	13544.8	16805.3	18782.0	19196.3	18489.9	18320.1	18401.6
60°	3708.8	3742.8	4062.1	4938.3	6677.3	9530.2	12131.9	14774.2	15990.2	16234.7	16234.7
62.5°	2764.7	2751.1	2832.6	2988.8	3355.6	4381.3	5848.6	7947.5	9618.5	10786.9	11092.6
65°	2499.7	2492.9	2533.7	2588.0	2615.2	2757.9	3083.9	3729.2	4272.6	4585.1	4530.8
67.5°	2187.3	2180.5	2194.1	2228.0	2275.6	2350.3	2431.8	2567.7	2757.9	2744.3	2710.3
70°	1766.1	1766.1	1786.5	1813.7	1868.0	1956.3	2051.4	2146.5	2309.5	2343.5	2336.7
72.5°	1304.2	1283.8	1324.6	1378.9	1433.3	1542.0	1643.8	1732.2	1847.6	1881.6	1868.0
75°	828.7	842.3	869.5	930.6	1025.7	1100.4	1209.1	1283.8	1358.6	1385.7	1392.5
77.5°	461.9	475.5	523.0	597.8	692.9	774.4	869.5	930.6	978.2	984.9	991.7
80°	278.5	285.3	332.8	400.8	482.3	570.6	645.3	706.4	747.2	726.8	720.0
82.5°	169.8	176.6	217.4	278.5	346.4	414.4	495.9	550.2	591.0	563.8	536.6
85°	88.3	95.1	129.1	169.8	224.2	258.1	258.1	231.0	224.2	210.6	203.8
87.5°	27.2	27.2	34.0	40.8	34.0	40.8	47.5	54.3	54.3	61.1	54.3
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)