

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: P651545

Luminaire Tested: **GALN-SA8D-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55099.8 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

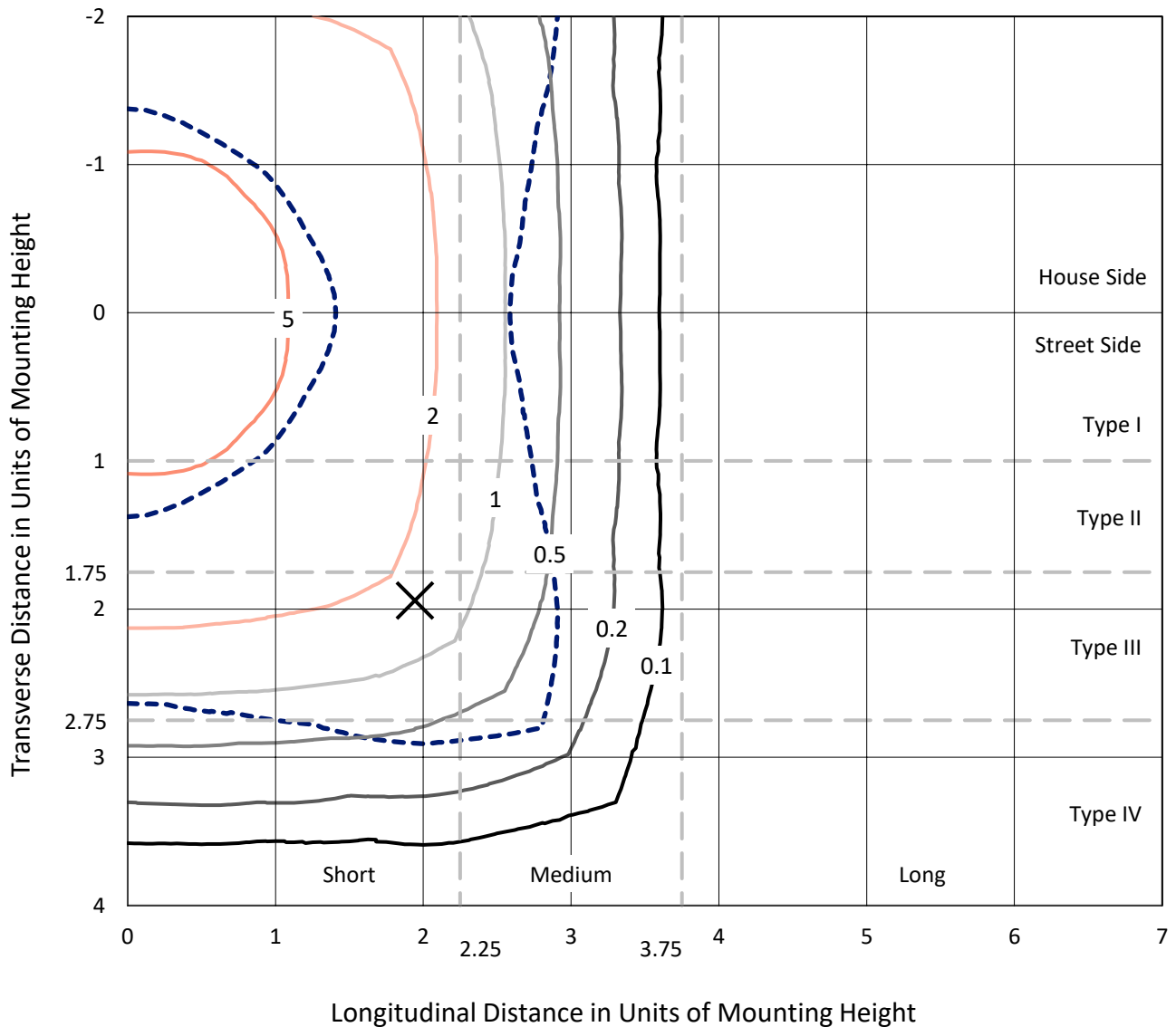
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

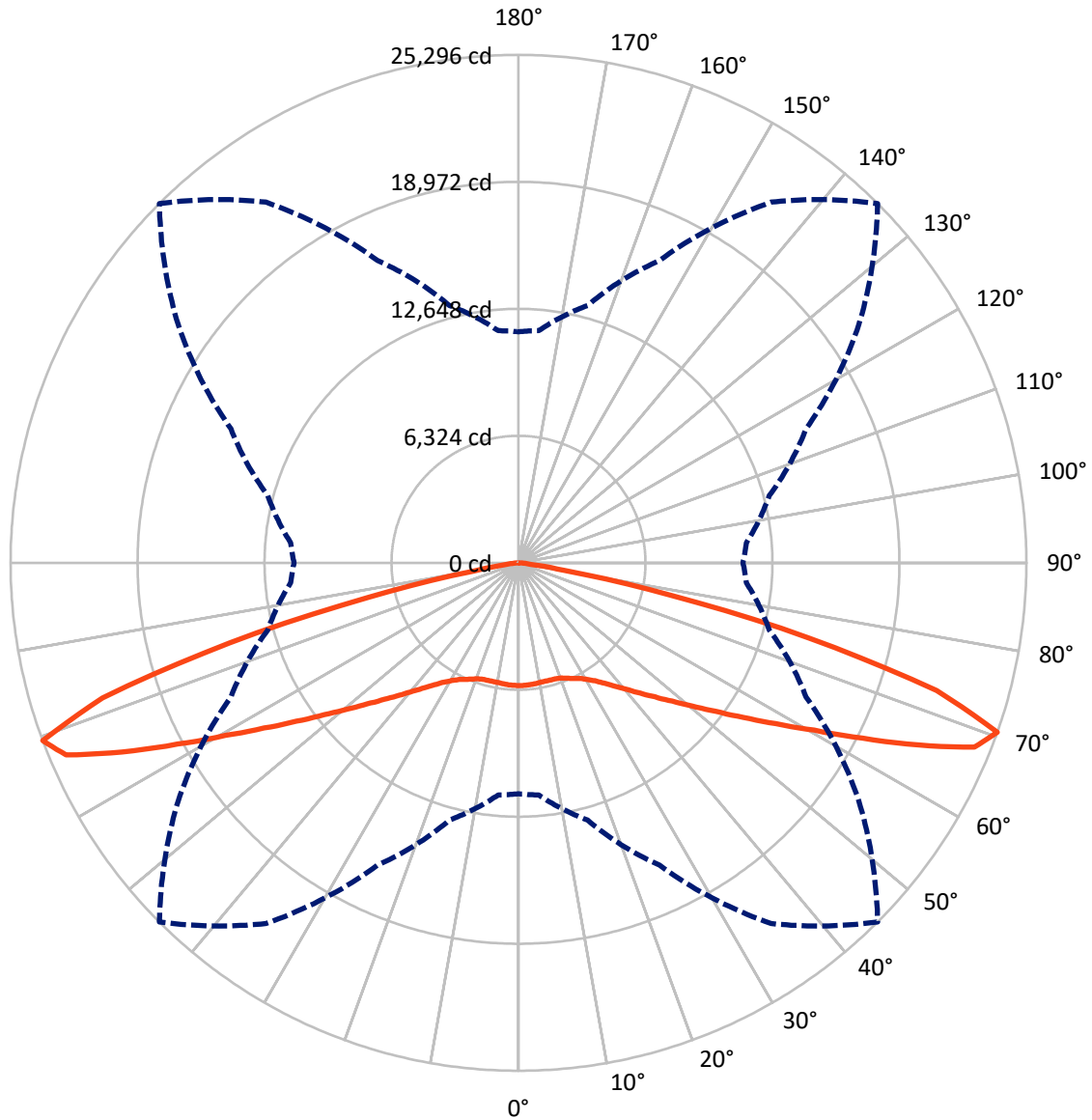
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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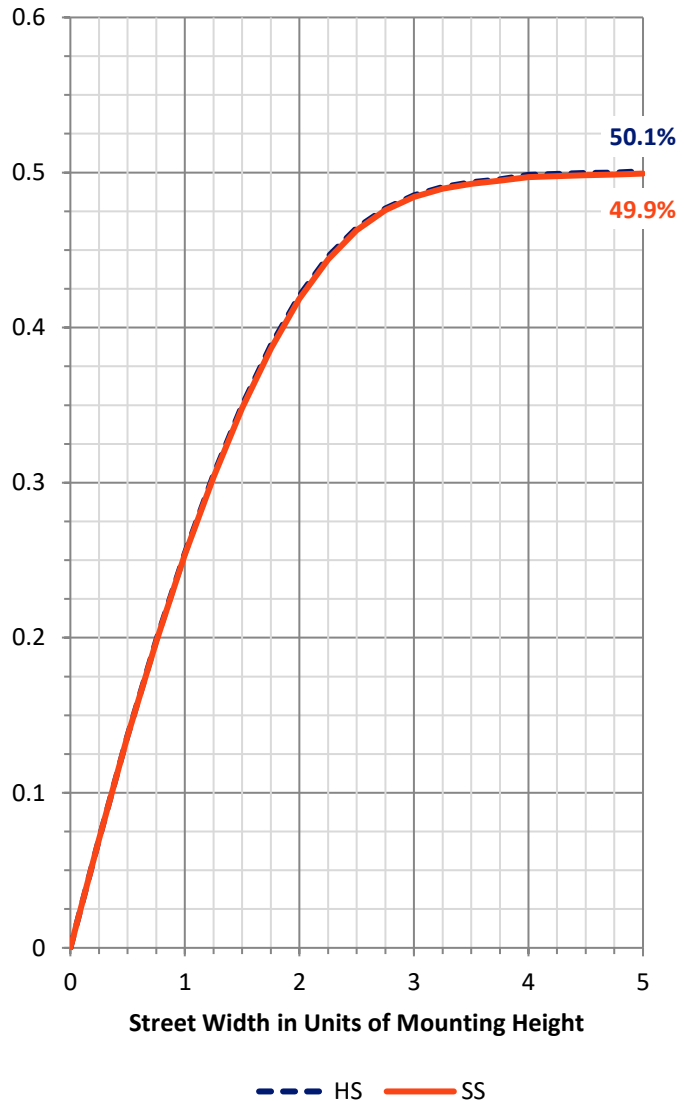
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27549.9	0.0	27549.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27549.9	0.0	27549.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	55099.8	0.0	55099.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.2	1.1
10°-20°	1702.6	3.1
20°-30°	2912.0	5.3
30°-40°	4621.9	8.4
40°-50°	7456.4	13.5
50°-60°	12131.7	22.0
60°-70°	17586.6	31.9
70°-80°	7800.8	14.2
80°-90°	307.7	0.6
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°	55099.8	100.0
0°-180°	55099.8	100.0

Coefficient of Utilization

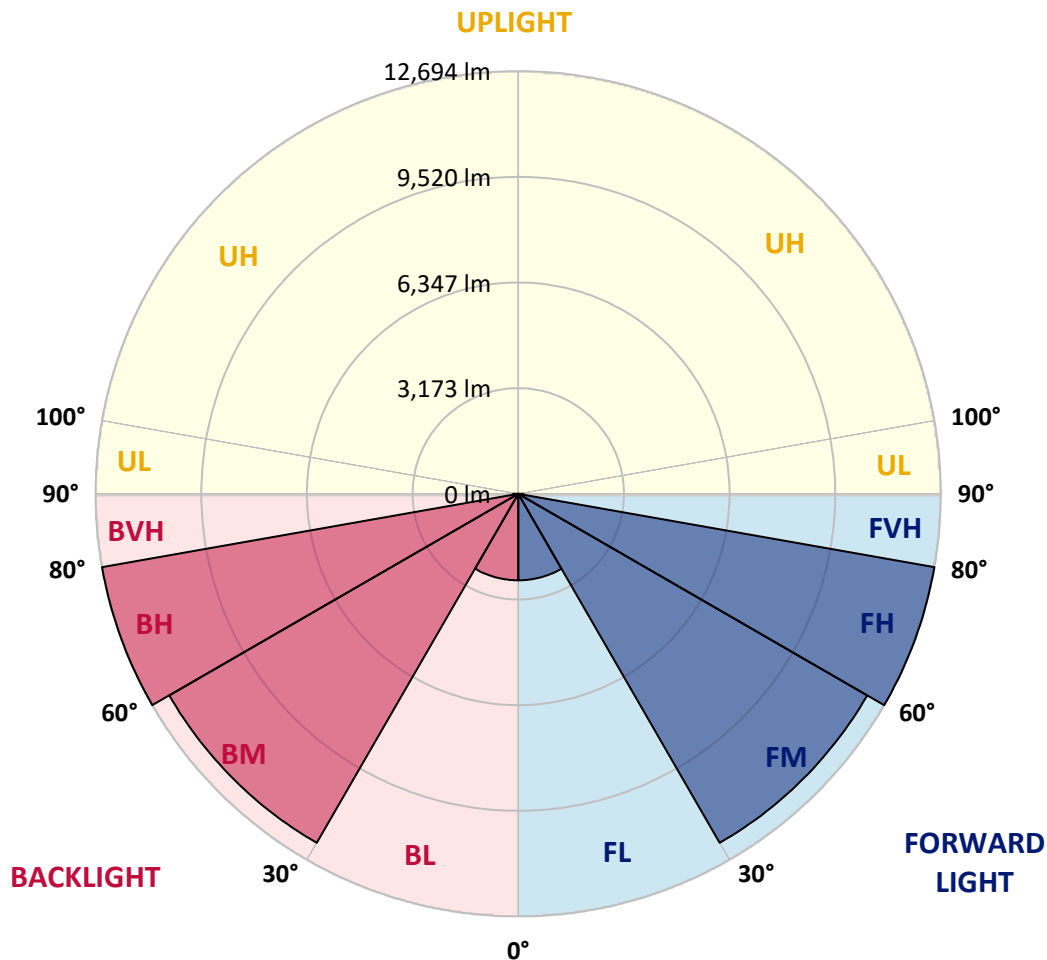


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2597.4	4.7			
FM (30°-60°)	12105.0	22.0			
FH (60°-80°)	12693.7	23.0			G5
FVH (80°-90°)	153.8	0.3			G2/225
BL (0°-30°)	2597.4	4.7	B4/5000		
BM (30°-60°)	12105.0	22.0	B5		
BH (60°-80°)	12693.7	23.0	B5		G5
BVH (80°-90°)	153.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6118.6	6118.6	6118.6	6118.6	6118.6	6118.6	6118.6	6118.6	6118.6	6118.6	6118.6
2.5°	6118.6	6124.4	6115.7	6109.9	6106.9	6106.9	6104.1	6106.9	6124.4	6127.3	6118.6
5°	6101.1	6106.9	6104.1	6098.3	6095.3	6095.3	6092.5	6089.5	6104.1	6109.9	6106.9
7.5°	6077.9	6080.9	6077.9	6075.0	6077.9	6075.0	6066.3	6060.5	6072.1	6072.1	6069.2
10°	6037.3	6043.1	6040.1	6043.1	6048.9	6048.9	6037.3	6025.7	6028.5	6022.7	6022.7
12.5°	5987.9	5996.6	5999.5	6011.1	6025.7	6043.1	6016.9	5990.8	5985.0	5982.1	5979.2
15°	5956.0	5964.6	5976.3	5987.9	6014.0	6051.8	6014.0	5973.4	5961.8	5950.2	5944.4
17.5°	5947.2	5958.8	5976.3	5993.7	6028.5	6066.3	6034.3	5993.7	5964.6	5947.2	5941.4
20°	5970.5	5979.2	6005.3	6037.3	6086.7	6124.4	6092.5	6048.9	6005.3	5979.2	5970.5
22.5°	6016.9	6031.5	6063.4	6121.5	6191.2	6246.4	6202.8	6130.2	6060.5	6025.7	6014.0
25°	6118.6	6130.2	6168.0	6246.4	6327.7	6379.9	6333.5	6249.2	6153.4	6106.9	6092.5
27.5°	6272.5	6289.9	6330.5	6423.5	6490.2	6519.3	6487.4	6429.3	6359.6	6310.2	6298.6
30°	6490.2	6510.6	6571.6	6670.3	6713.9	6731.3	6716.8	6679.1	6629.7	6577.4	6565.8
32.5°	6783.6	6795.2	6864.9	6957.8	6998.5	7004.3	6986.9	6969.5	6888.1	6801.0	6795.2
35°	7111.7	7132.0	7216.3	7326.6	7364.4	7367.2	7332.4	7306.3	7210.5	7140.8	7140.8
37.5°	7547.3	7556.0	7637.3	7762.2	7802.9	7791.3	7773.8	7750.6	7649.0	7558.9	7561.9
40°	8058.4	8075.8	8145.5	8290.7	8290.7	8276.2	8287.8	8270.4	8168.7	8081.6	8084.5
42.5°	8665.3	8674.0	8758.3	8912.2	8900.6	8871.5	8883.1	8859.9	8796.0	8697.3	8662.4
45°	9312.9	9347.7	9493.0	9641.1	9617.8	9524.9	9571.3	9565.5	9507.4	9359.3	9368.1
47.5°	10094.0	10152.1	10291.5	10468.7	10442.5	10297.3	10349.6	10384.4	10303.1	10140.5	10111.5
50°	10974.0	11011.7	11217.8	11383.4	11360.1	11206.2	11325.3	11331.1	11127.9	10898.4	10898.4
52.5°	11911.9	11949.7	12228.4	12486.9	12501.4	12277.8	12373.6	12367.8	12036.8	11734.7	11676.7
55°	12963.1	12980.6	13340.6	13721.1	13802.3	13584.6	13596.2	13480.1	13050.2	12698.8	12666.9
57.5°	14049.2	14113.1	14511.0	15004.6	15245.6	15112.0	15051.0	14740.3	14325.1	13921.4	13901.1
60°	15251.5	15254.3	15771.2	16354.9	16842.8	16932.8	16683.1	16267.8	15730.6	15196.3	15173.0
62.5°	16084.9	16209.7	16863.1	17850.4	18724.5	19229.8	18570.6	17699.4	16642.4	15779.9	15692.8
65°	16256.2	16340.4	17336.5	19009.1	20795.0	21884.0	20359.4	18506.7	16703.4	15553.5	15495.3
67.5°	14871.0	14961.1	16302.6	18869.7	22247.0	24480.1	21521.0	18117.6	15669.6	14246.6	14133.4
70°	11502.4	11604.1	13262.2	16610.4	21924.6	25296.1	20693.4	15803.1	12922.5	11386.3	11180.1
72.5°	6115.7	6490.2	7907.4	11400.8	17795.2	21779.5	16967.7	11531.5	8334.3	6812.6	6539.6
75°	2233.1	2279.6	3069.5	5055.8	10352.5	14934.9	10750.3	5500.1	3162.4	2442.2	2317.3
77.5°	923.4	920.6	1010.5	1527.4	3760.6	7649.0	4196.2	1614.6	1007.7	932.2	920.6
80°	546.0	546.0	601.1	636.0	990.3	2308.6	1106.4	720.1	604.0	551.8	560.4
82.5°	243.9	258.4	380.4	400.7	479.1	633.0	534.3	458.8	394.9	273.0	246.8
85°	133.6	116.1	200.4	209.1	229.4	235.2	252.6	249.8	229.4	133.6	136.5
87.5°	26.2	32.0	58.1	43.6	49.4	43.6	58.1	81.3	84.2	46.4	37.8
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)