

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: P651551

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54983.7 lumens
Efficiency: N/A
Efficacy: 111.5 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

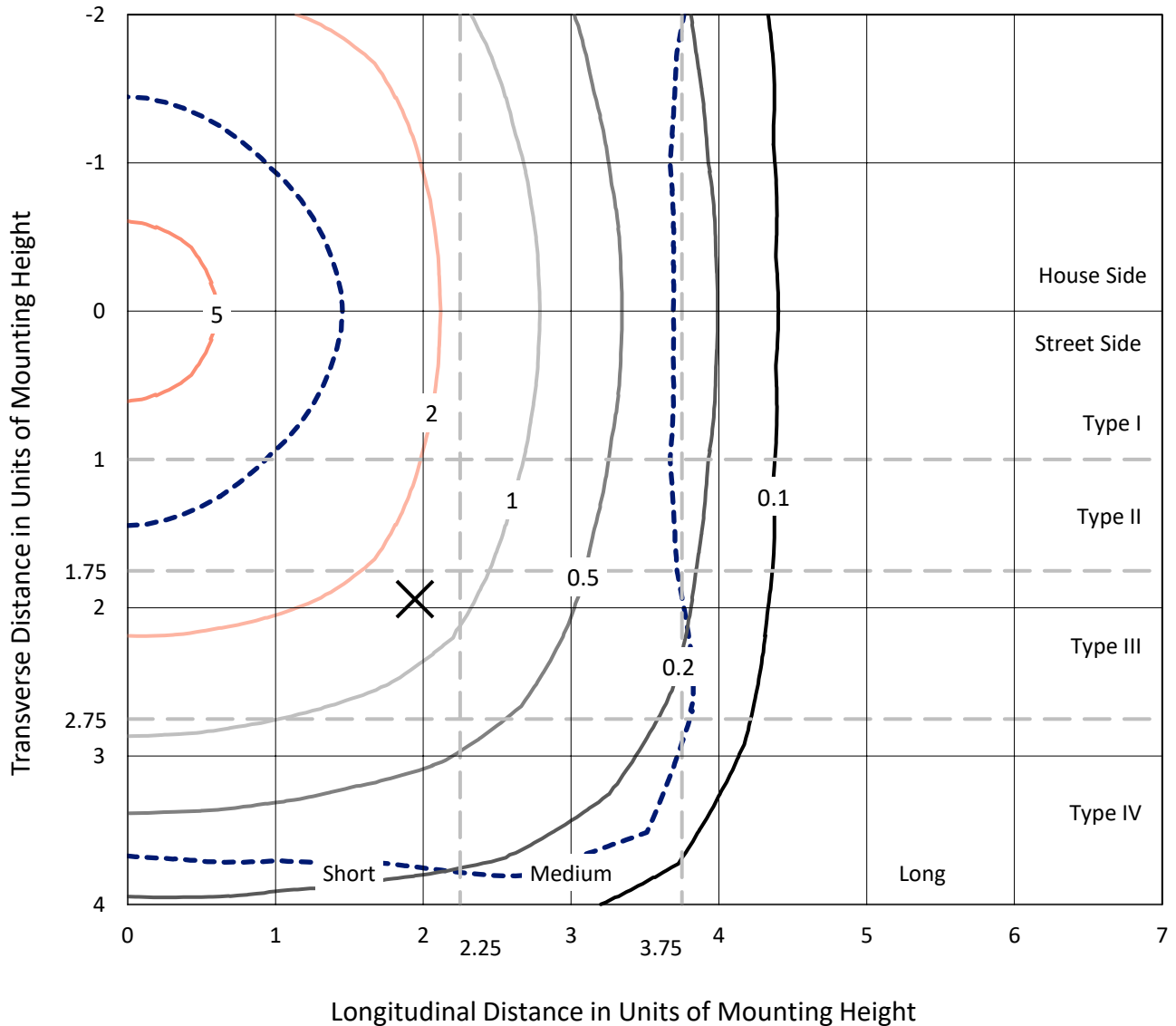
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

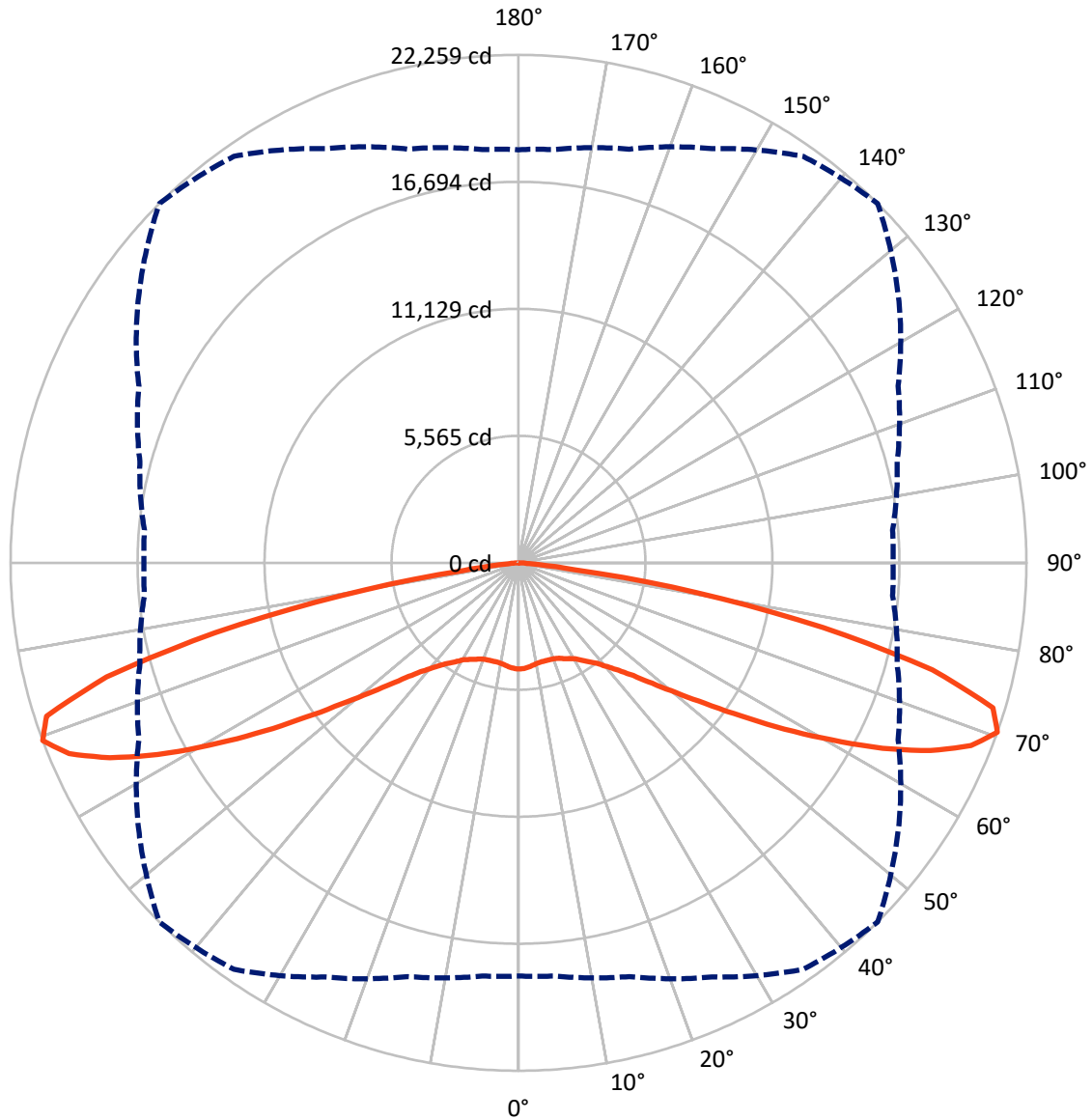
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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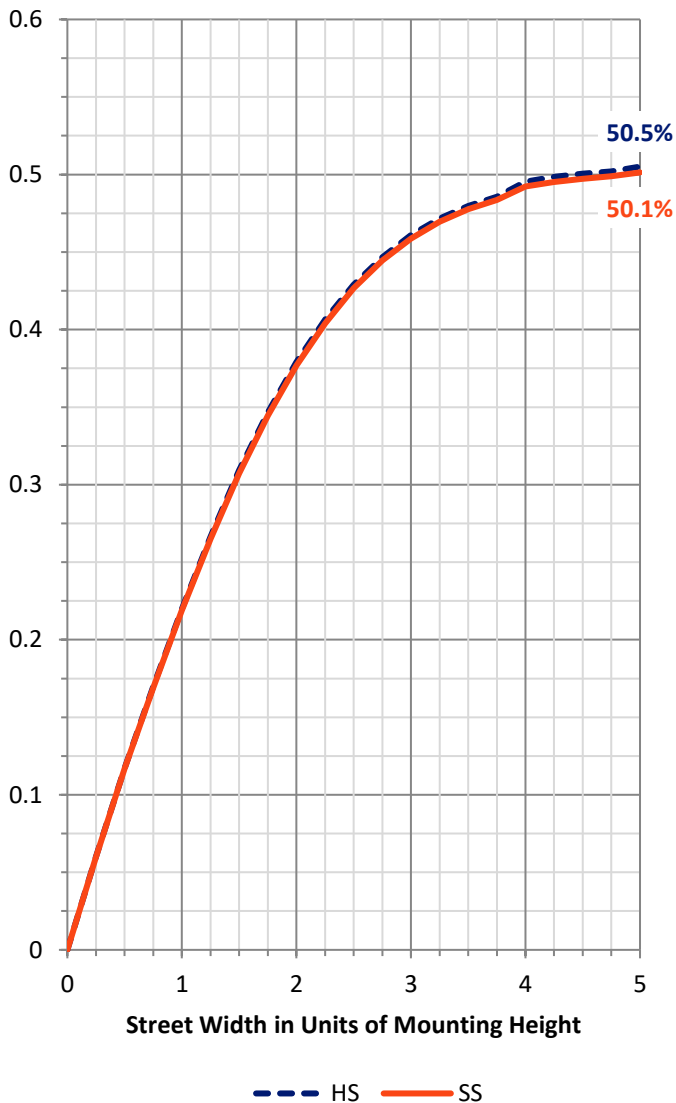
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27491.9	0.0	27491.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27491.9	0.0	27491.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	54983.7	0.0	54983.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.3	0.8
10°-20°	1274.5	2.3
20°-30°	2171.4	3.9
30°-40°	3365.6	6.1
40°-50°	5664.8	10.3
50°-60°	10306.9	18.7
60°-70°	17449.3	31.7
70°-80°	13506.5	24.6
80°-90°	809.3	1.5
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°	54983.7	100.0
0°-180°	54983.7	100.0



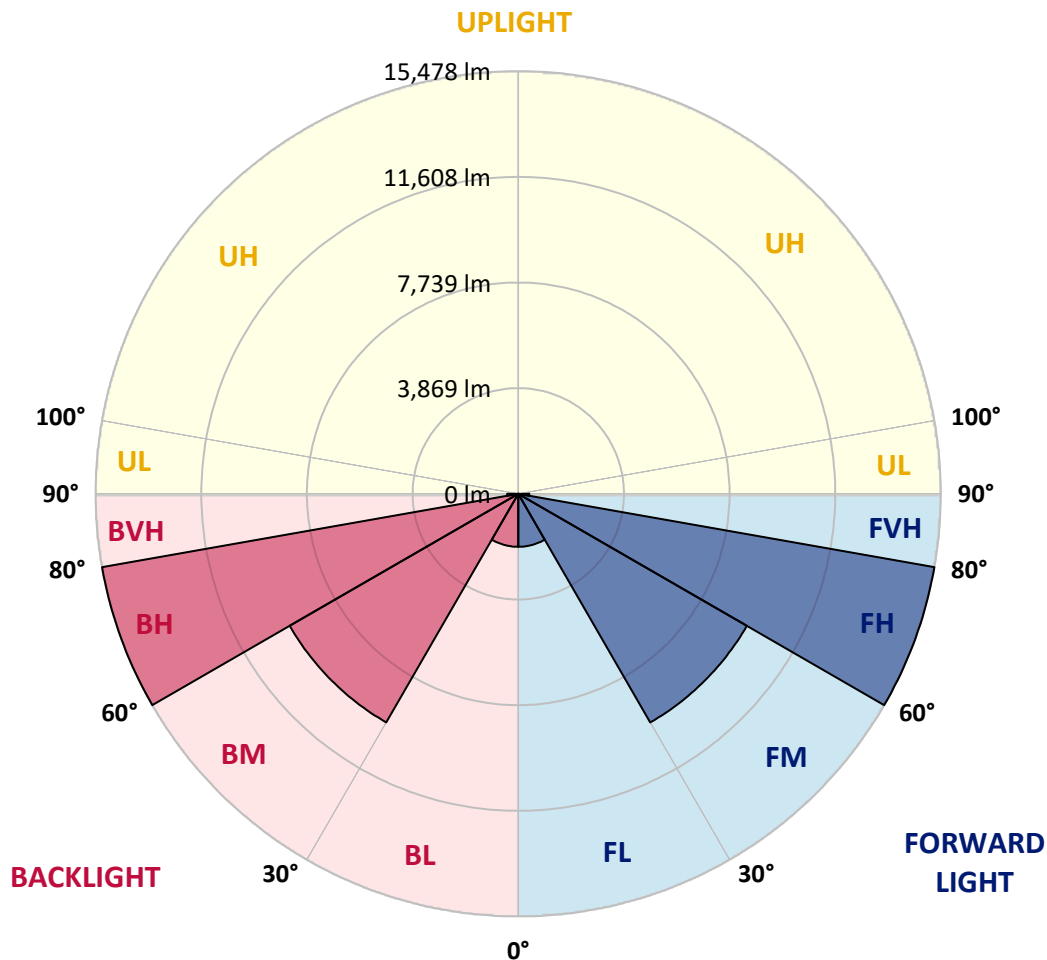
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.6	3.5			
FM (30°-60°)	9668.7	17.6			
FH (60°-80°)	15477.9	28.1			G5
FVH (80°-90°)	404.7	0.7			G3/500
BL (0°-30°)	1940.6	3.5	B3/2500		
BM (30°-60°)	9668.7	17.6	B5		
BH (60°-80°)	15477.9	28.1	B5		G5
BVH (80°-90°)	404.7	0.7			G3/500
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°	4655.0	4655.0	4655.0	4655.0	4655.0	4655.0	4655.0	4655.0	4655.0	4655.0	4655.0
2.5°	4643.4	4646.4	4646.4	4640.6	4637.6	4637.6	4634.8	4634.8	4643.4	4646.4	4649.2
5°	4602.8	4602.8	4602.8	4599.8	4594.0	4594.0	4588.2	4588.2	4591.2	4599.8	4594.0
7.5°	4547.6	4553.4	4553.4	4541.8	4533.1	4533.1	4530.2	4533.1	4536.0	4544.7	4541.8
10°	4530.2	4533.1	4518.5	4498.3	4483.7	4475.0	4477.9	4483.7	4498.3	4504.1	4506.9
12.5°	4541.8	4541.8	4515.7	4486.7	4460.5	4448.9	4445.9	4466.3	4492.5	4509.9	4515.7
15°	4556.3	4550.5	4518.5	4480.8	4454.7	4451.7	4448.9	4463.4	4501.1	4536.0	4538.9
17.5°	4565.0	4562.1	4521.5	4475.0	4460.5	4460.5	4457.6	4469.2	4509.9	4553.4	4556.3
20°	4594.0	4585.4	4538.9	4489.5	4477.9	4483.7	4475.0	4489.5	4533.1	4585.4	4597.0
22.5°	4652.2	4643.4	4597.0	4547.6	4541.8	4541.8	4538.9	4553.4	4599.8	4655.0	4663.8
25°	4721.9	4713.1	4669.6	4634.8	4640.6	4652.2	4646.4	4649.2	4687.0	4733.5	4747.9
27.5°	4814.7	4800.3	4762.5	4733.5	4750.9	4750.9	4750.9	4747.9	4771.2	4814.7	4829.3
30°	4928.0	4922.2	4881.6	4878.6	4893.2	4878.6	4878.6	4881.6	4884.4	4925.1	4939.6
32.5°	5076.1	5064.5	5044.1	5038.3	5079.1	5090.7	5050.0	5012.2	5032.5	5073.2	5081.9
35°	5320.1	5302.6	5273.6	5241.6	5273.6	5328.7	5241.6	5212.6	5264.9	5320.1	5325.9
37.5°	5651.1	5642.4	5595.9	5537.8	5535.0	5593.0	5503.0	5500.1	5598.9	5665.6	5674.3
40°	6066.4	6075.0	6017.0	5961.8	5932.8	5979.3	5909.5	5935.7	6031.5	6107.0	6101.2
42.5°	6650.0	6618.1	6528.1	6475.9	6443.9	6426.5	6409.0	6449.7	6557.1	6638.4	6702.3
45°	7332.5	7320.9	7207.6	7143.7	7074.1	7047.9	7042.1	7114.7	7245.4	7344.1	7352.9
47.5°	8105.0	8078.8	8006.2	7939.5	7913.3	7881.3	7852.3	7907.5	8038.2	8107.8	8128.2
50°	8900.6	8906.4	8906.4	8894.8	8921.0	8926.8	8848.3	8868.7	8941.3	8935.5	8929.7
52.5°	9809.6	9841.6	9992.5	10007.1	10131.9	10216.1	10073.8	9989.7	9963.5	9806.6	9818.3
55°	10878.3	10907.3	11133.7	11360.3	11697.1	11839.4	11540.4	11279.0	11093.1	10855.0	10866.6
57.5°	12211.2	12225.7	12440.6	12876.1	13410.5	13744.5	13218.8	12702.0	12324.4	12097.9	12007.9
60°	13645.7	13660.2	13973.9	14505.3	15335.8	15742.3	15091.9	14246.8	13770.5	13425.0	13448.3
62.5°	15367.8	15425.8	15707.5	16439.3	17447.0	17902.9	17040.4	15910.8	15266.1	14836.3	14853.7
65°	17211.7	17310.5	17618.4	18422.7	19352.0	19842.7	18785.8	17481.9	16680.3	16154.7	16209.9
67.5°	18408.2	18495.4	18939.7	19828.3	20986.9	21393.4	20028.6	18509.8	17507.9	16880.7	16764.6
70°	18103.3	18175.9	18768.3	20028.6	21744.8	22258.8	20324.8	18358.9	17179.9	16456.8	16410.3
72.5°	15980.5	15829.5	16694.9	18504.0	20879.5	21742.0	19392.6	16767.4	15283.6	14540.1	14453.0
75°	10590.7	10918.9	12196.6	14328.1	17664.8	18733.4	16552.6	13462.7	11595.5	10977.0	10881.1
77.5°	3539.9	3792.6	4928.0	8122.4	12042.7	13648.6	12060.1	8804.8	6229.0	5018.1	5041.3
80°	938.0	926.4	1199.4	2233.1	5203.9	7904.6	6057.6	2982.4	1632.0	1181.9	1121.0
82.5°	336.8	377.5	484.9	618.6	1379.4	2456.7	1733.6	836.4	612.8	453.0	438.5
85°	148.1	145.2	209.1	246.8	345.6	458.8	406.5	354.3	310.7	206.2	191.7
87.5°	32.0	32.0	49.4	37.8	61.0	61.0	75.5	90.0	92.9	61.0	49.4
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)