

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: P651050

Luminaire Tested: **GALN-SA8C-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651050
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-SA8C-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50074.8 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

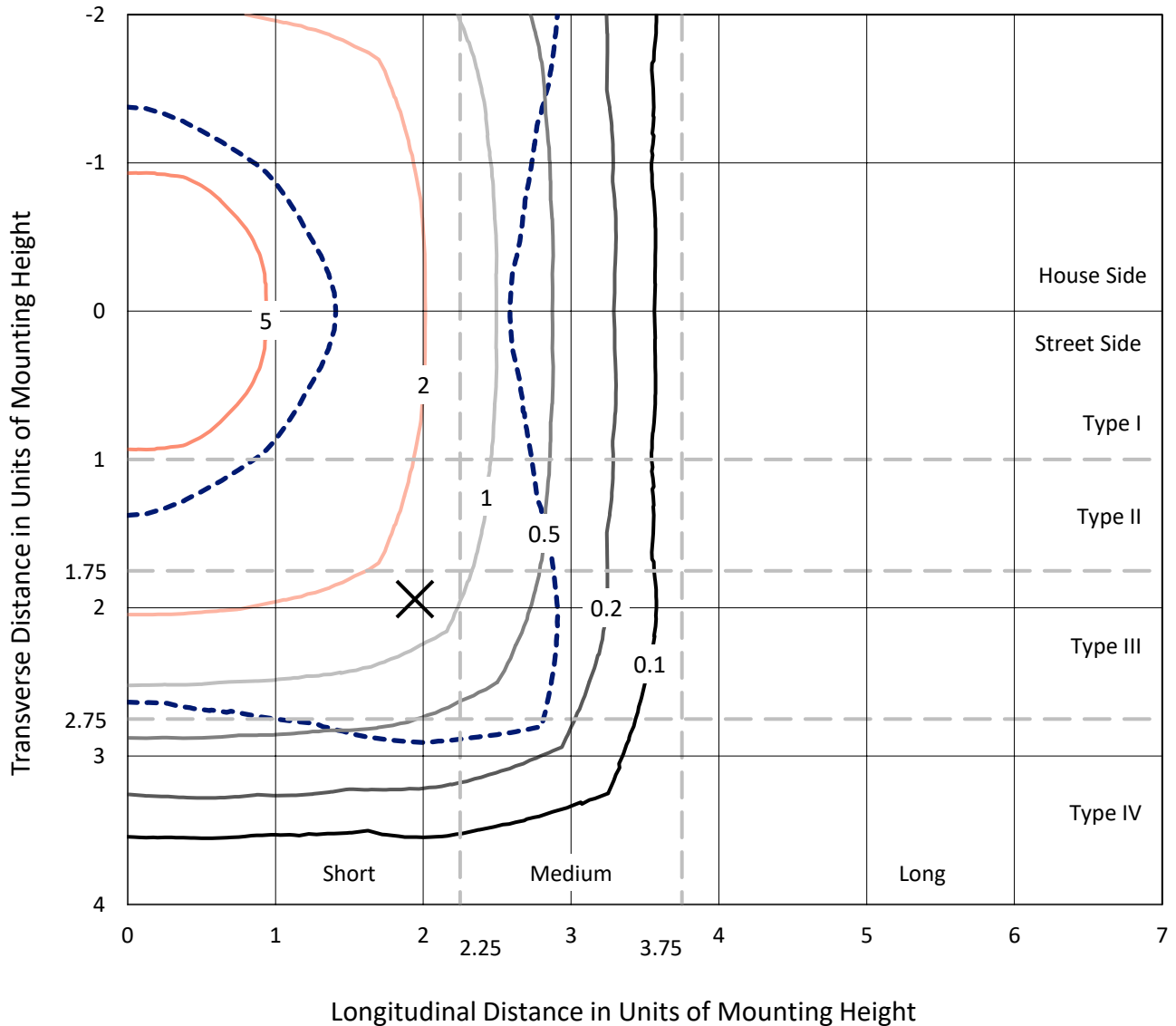
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

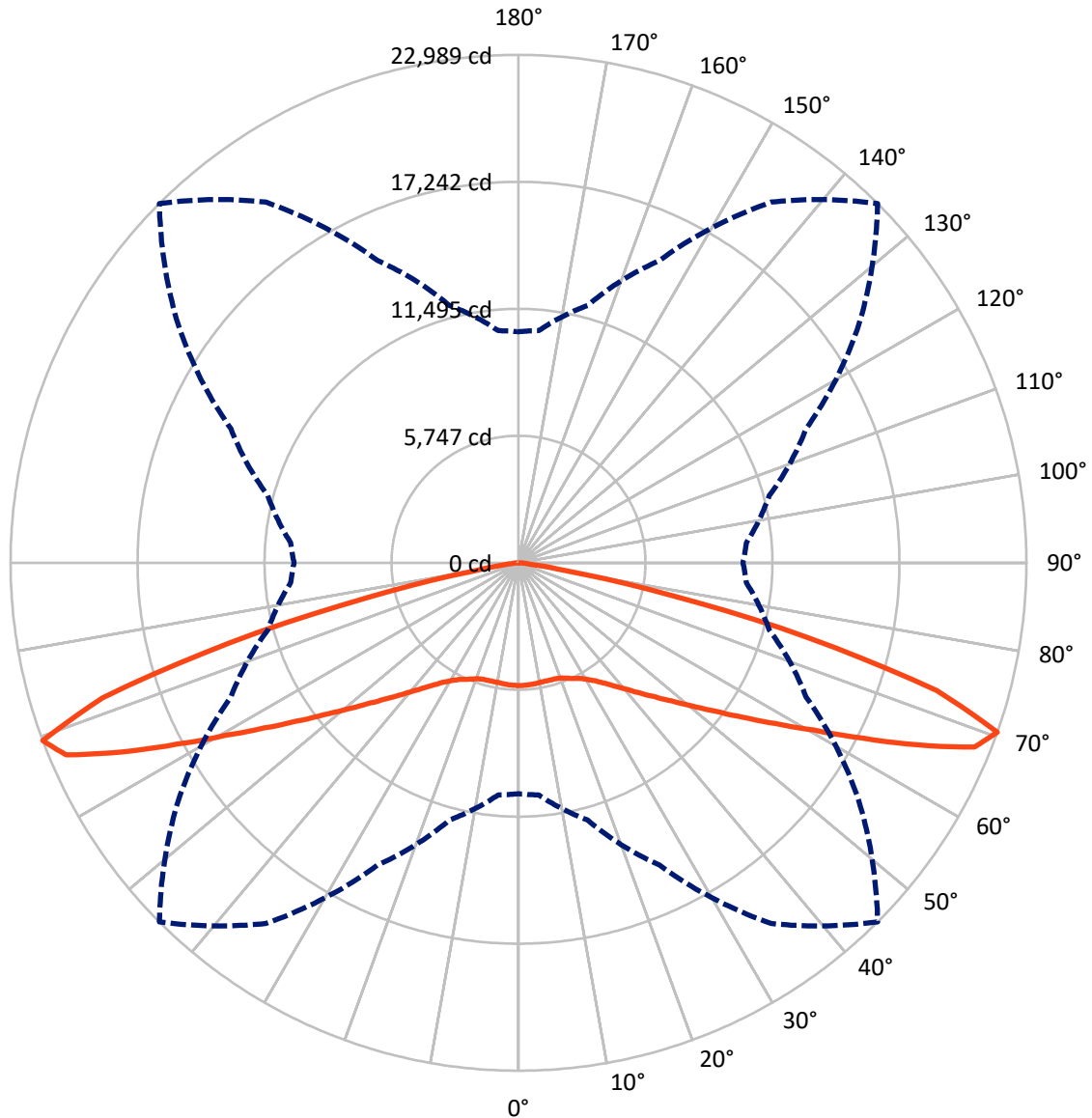
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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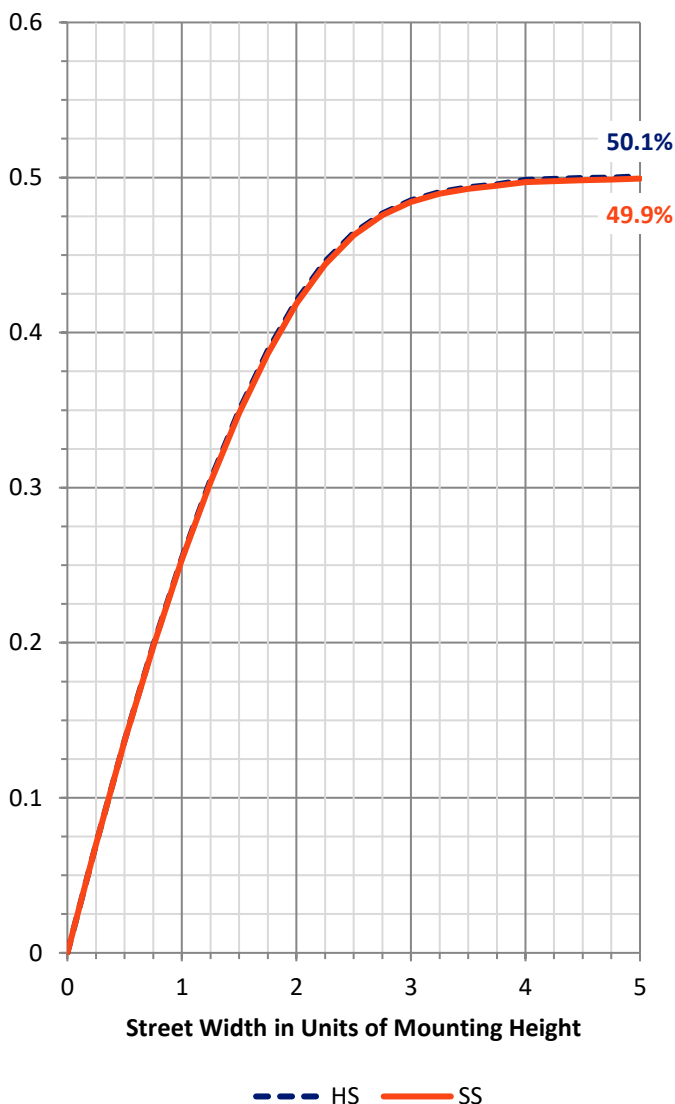
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25037.4	0.0	25037.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25037.4	0.0	25037.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	50074.8	0.0	50074.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.3	1.1
10°-20°	1547.3	3.1
20°-30°	2646.4	5.3
30°-40°	4200.4	8.4
40°-50°	6776.4	13.5
50°-60°	11025.3	22.0
60°-70°	15982.7	31.9
70°-80°	7089.4	14.2
80°-90°	279.6	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°	50074.8	100.0
0°-180°	50074.8	100.0

Coefficient of Utilization



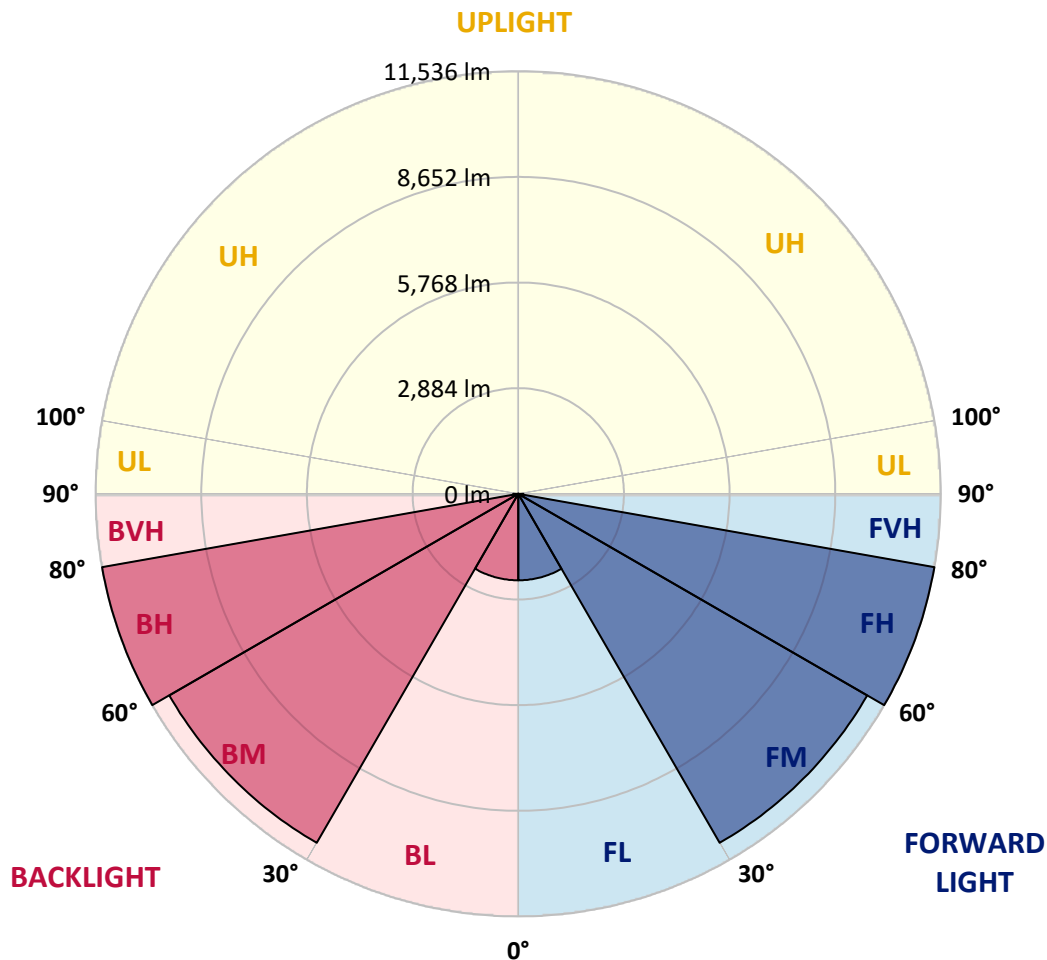
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.5	4.7			
FM (30°-60°)	11001.0	22.0			
FH (60°-80°)	11536.0	23.0			G4/12000
FVH (80°-90°)	139.8	0.3			G2/225
BL (0°-30°)	2360.5	4.7	B3/2500		
BM (30°-60°)	11001.0	22.0	B5		
BH (60°-80°)	11536.0	23.0	B5		G4/12000
BVH (80°-90°)	139.8	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5560.6	5560.6	5560.6	5560.6	5560.6	5560.6	5560.6	5560.6	5560.6	5560.6	5560.6
2.5°	5560.6	5565.8	5557.9	5552.6	5550.0	5550.0	5547.4	5550.0	5565.8	5568.5	5560.6
5°	5544.7	5550.0	5547.4	5542.1	5539.5	5539.5	5536.8	5534.2	5547.4	5552.6	5550.0
7.5°	5523.6	5526.3	5523.6	5521.0	5523.6	5521.0	5513.1	5507.8	5518.3	5518.3	5515.7
10°	5486.7	5492.0	5489.3	5492.0	5497.2	5497.2	5486.7	5476.1	5478.8	5473.5	5473.5
12.5°	5441.8	5449.8	5452.4	5463.0	5476.1	5492.0	5468.2	5444.5	5439.2	5436.6	5433.9
15°	5412.8	5420.7	5431.3	5441.8	5465.6	5499.9	5465.6	5428.7	5418.1	5407.5	5402.2
17.5°	5404.9	5415.5	5431.3	5447.1	5478.8	5513.1	5484.1	5447.1	5420.7	5404.9	5399.6
20°	5426.0	5433.9	5457.7	5486.7	5531.5	5565.8	5536.8	5497.2	5457.7	5433.9	5426.0
22.5°	5468.2	5481.4	5510.4	5563.2	5626.5	5676.7	5637.1	5571.1	5507.8	5476.1	5465.6
25°	5560.6	5571.1	5605.4	5676.7	5750.6	5798.1	5755.9	5679.4	5592.2	5550.0	5536.8
27.5°	5700.5	5716.3	5753.2	5837.7	5898.4	5924.8	5895.7	5842.9	5779.6	5734.8	5724.2
30°	5898.4	5916.9	5972.3	6062.0	6101.6	6117.4	6104.2	6069.9	6025.1	5977.6	5967.0
32.5°	6165.0	6175.5	6238.8	6323.3	6360.2	6365.5	6349.6	6333.8	6259.9	6180.8	6175.5
35°	6463.2	6481.6	6558.1	6658.4	6692.8	6695.4	6663.7	6639.9	6552.9	6489.5	6489.5
37.5°	6859.0	6866.9	6940.9	7054.3	7091.2	7080.7	7064.8	7043.7	6951.4	6869.5	6872.2
40°	7323.5	7339.3	7402.7	7534.6	7534.6	7521.4	7532.0	7516.1	7423.8	7344.6	7347.2
42.5°	7875.0	7882.9	7959.5	8099.4	8088.8	8062.4	8073.0	8051.9	7993.8	7904.1	7872.4
45°	8463.6	8495.3	8627.2	8761.8	8740.7	8656.2	8698.5	8693.2	8640.4	8505.8	8513.7
47.5°	9173.5	9226.3	9352.9	9513.9	9490.2	9358.2	9405.7	9437.4	9363.5	9215.7	9189.4
50°	9973.2	10007.5	10194.9	10345.2	10324.1	10184.3	10292.5	10297.7	10113.0	9904.5	9904.5
52.5°	10825.6	10859.9	11113.2	11348.1	11361.3	11158.1	11245.2	11239.9	10939.1	10664.6	10611.8
55°	11780.9	11796.8	12124.0	12469.8	12543.6	12345.7	12356.2	12250.7	11860.1	11540.8	11511.7
57.5°	12768.0	12826.0	13187.6	13636.2	13855.2	13733.9	13678.4	13396.0	13018.7	12651.8	12633.3
60°	13860.5	13863.1	14332.9	14863.4	15306.8	15388.5	15161.6	14784.2	14296.0	13810.4	13789.3
62.5°	14617.9	14731.5	15325.2	16222.6	17016.9	17476.1	16877.0	16085.3	15124.6	14340.8	14261.7
65°	14773.7	14850.2	15755.4	17275.5	18898.5	19888.2	18502.7	16819.0	15180.0	14135.0	14082.2
67.5°	13514.8	13596.6	14815.9	17148.8	20218.1	22247.6	19558.3	16465.4	14240.6	12947.4	12844.5
70°	10453.5	10545.8	12052.7	15095.6	19925.1	22989.2	18806.2	14361.9	11744.0	10347.9	10160.5
72.5°	5557.9	5898.4	7186.3	10361.1	16172.3	19793.2	15420.2	10479.9	7574.2	6191.4	5943.3
75°	2029.5	2071.7	2789.5	4594.6	9408.4	13572.9	9769.9	4998.5	2873.9	2219.5	2106.0
77.5°	839.2	836.6	918.4	1388.2	3417.7	6951.4	3813.5	1467.4	915.8	847.1	836.6
80°	496.2	496.2	546.3	577.9	900.0	2098.0	1005.5	654.5	548.9	501.4	509.3
82.5°	221.7	234.9	345.7	364.2	435.5	575.3	485.6	417.0	358.9	248.1	224.3
85°	121.4	105.5	182.1	190.0	208.5	213.8	229.6	227.0	208.5	121.4	124.0
87.5°	23.7	29.0	52.8	39.6	44.8	39.6	52.8	73.9	76.5	42.2	34.3
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)