

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: P651051

Luminaire Tested: **GALN-SA8C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32799 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

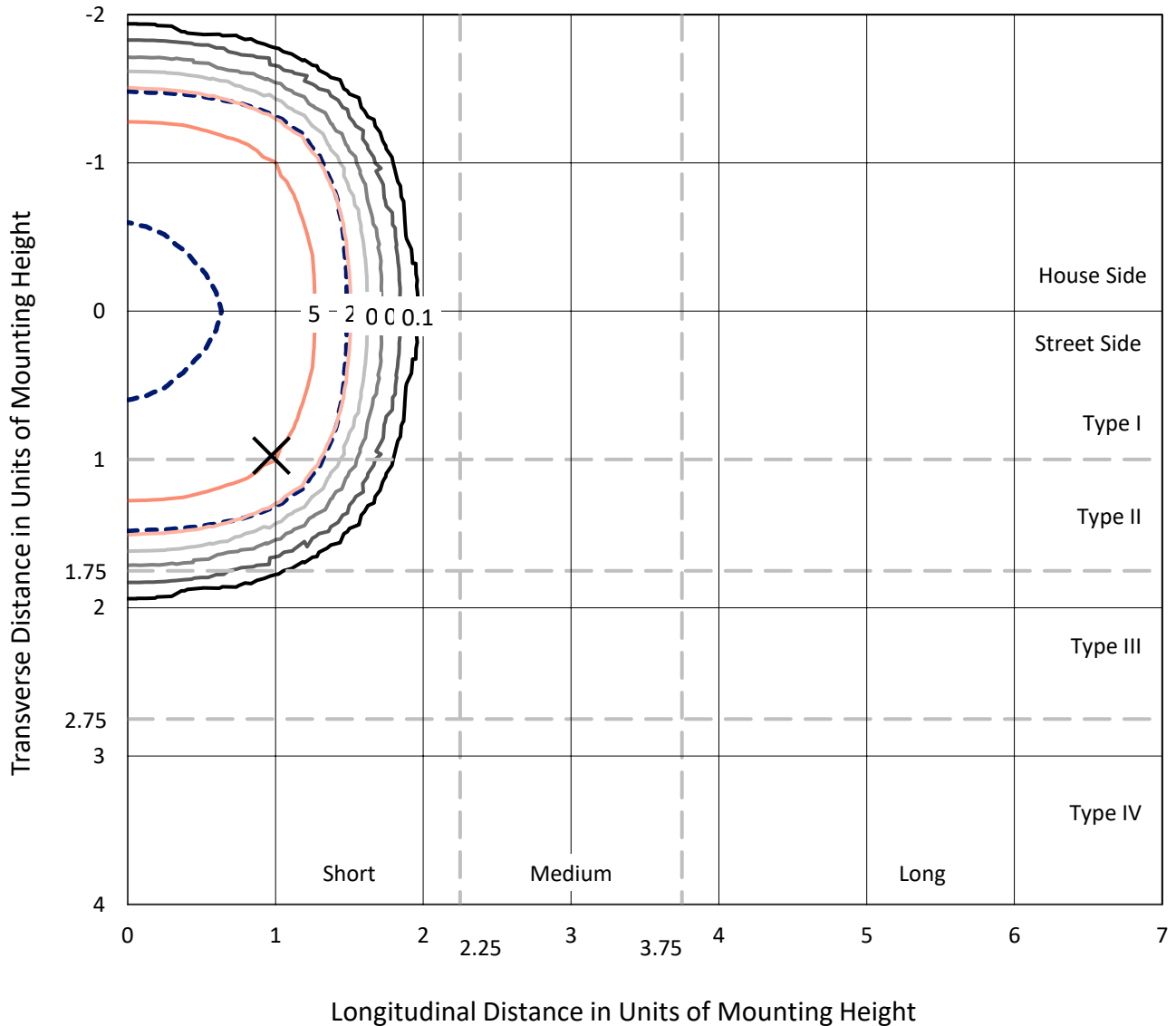
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

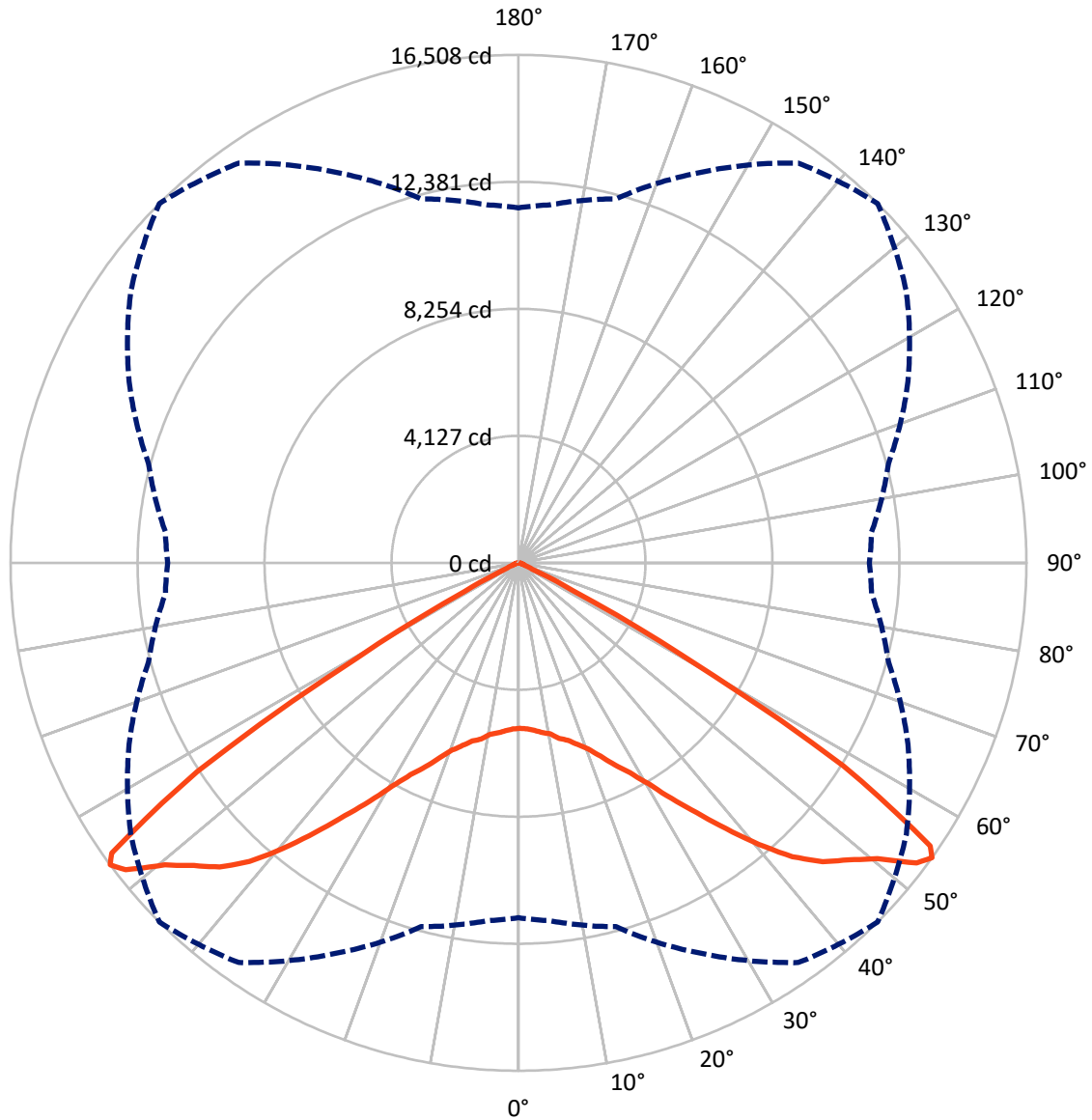
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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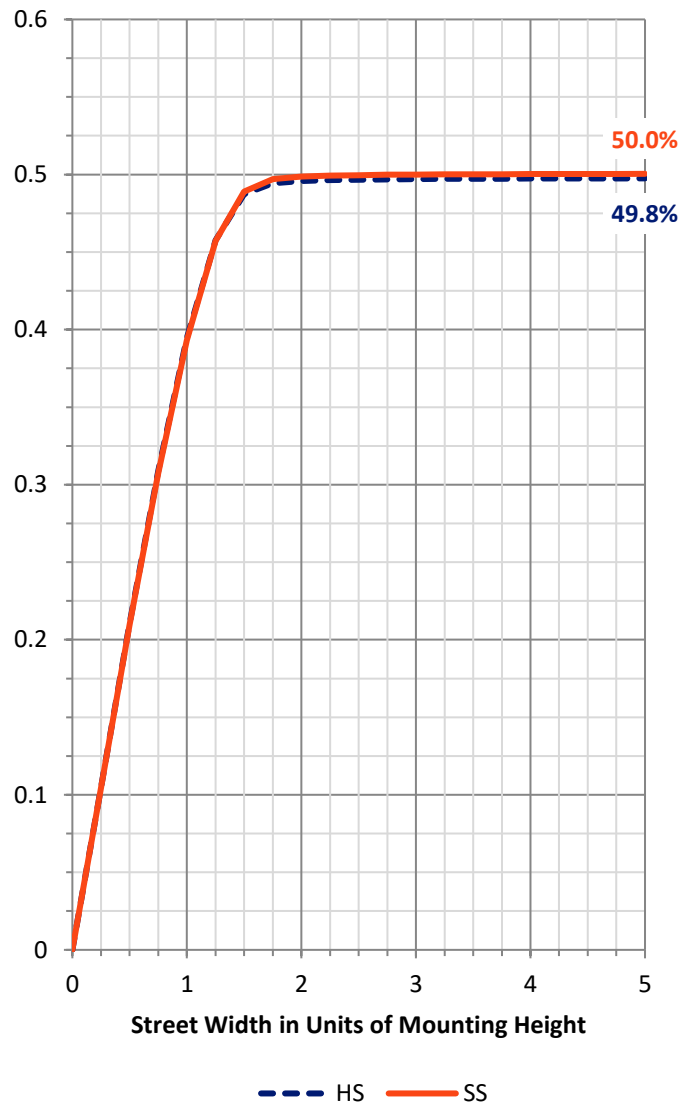
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16399.5	0.0	16399.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16399.5	0.0	16399.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32799.0	0.0	32799.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.4	1.6
10°-20°	1704.6	5.2
20°-30°	3340.9	10.2
30°-40°	6007.7	18.3
40°-50°	10284.1	31.4
50°-60°	9950.8	30.3
60°-70°	851.8	2.6
70°-80°	101.0	0.3
80°-90°	31.7	0.1
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°	32799.0	100.0
0°-180°	32799.0	100.0

**Coefficient of Utilization**



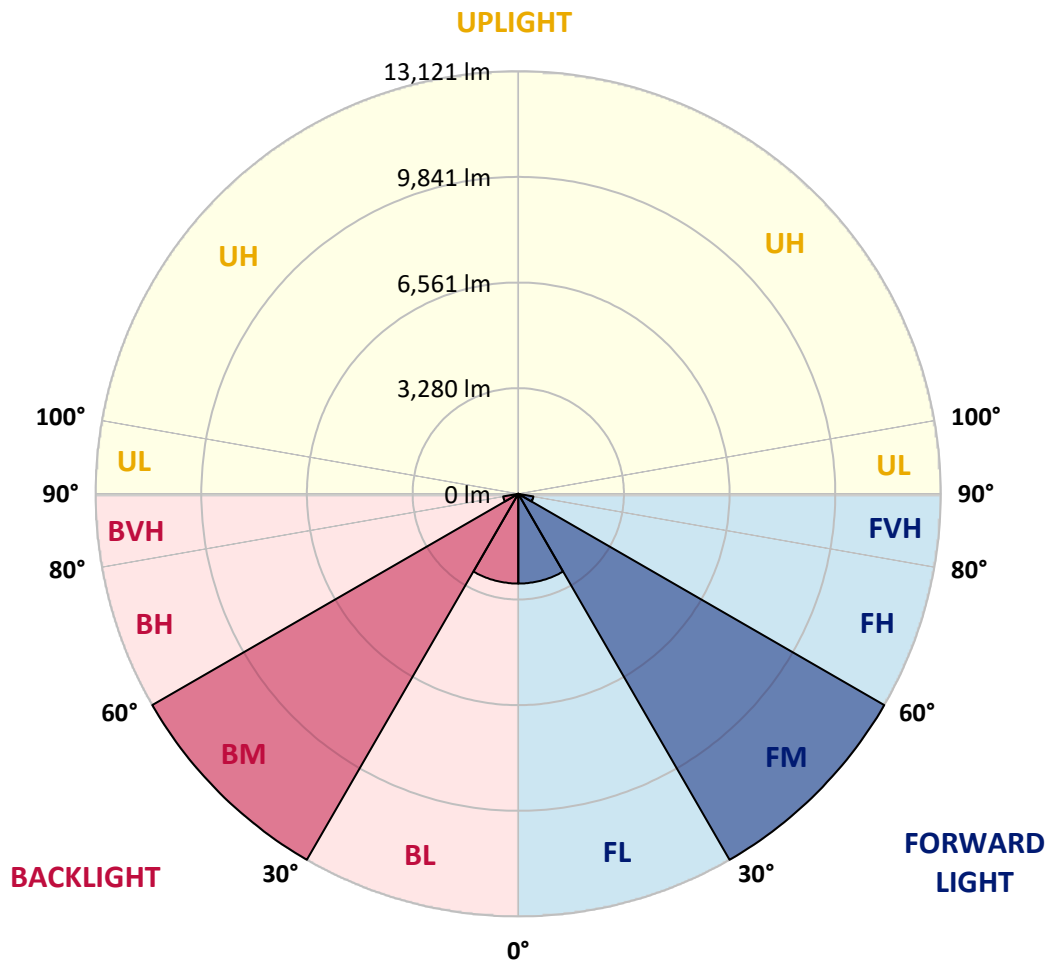
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2786.0	8.5			
FM (30°-60°)	13121.3	40.0			
FH (60°-80°)	476.4	1.5			G0/660
FVH (80°-90°)	15.8	0.0			G1/100
BL (0°-30°)	2786.0	8.5	B4/5000		
BM (30°-60°)	13121.3	40.0	B5		
BH (60°-80°)	476.4	1.5	B1/500		G0/660
BVH (80°-90°)	15.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5378.0	5378.0	5378.0	5378.0	5378.0	5378.0	5378.0	5378.0	5378.0	5378.0	5378.0
2.5°	5404.0	5435.1	5414.4	5430.0	5430.0	5404.0	5419.6	5357.3	5398.8	5367.6	5372.8
5°	5487.1	5482.0	5482.0	5487.1	5466.3	5476.8	5456.0	5435.1	5419.6	5398.8	5461.1
7.5°	5591.1	5591.1	5554.7	5565.1	5554.7	5570.3	5528.7	5487.1	5471.5	5456.0	5445.6
10°	5689.8	5679.4	5663.8	5710.6	5674.2	5653.4	5632.6	5606.6	5549.5	5528.7	5507.9
12.5°	5835.3	5830.1	5809.3	5856.1	5835.3	5856.1	5778.1	5710.6	5700.2	5632.6	5669.0
15°	6006.8	6053.5	6017.1	6017.1	6006.8	5980.8	5949.6	5918.5	5824.9	5798.9	5804.1
17.5°	6230.2	6214.6	6219.8	6219.8	6271.8	6204.2	6141.8	6063.9	6017.1	6001.5	5949.6
20°	6443.2	6464.0	6458.8	6495.2	6526.3	6453.6	6386.0	6375.7	6245.8	6266.5	6193.8
22.5°	6817.3	6801.8	6827.7	6853.7	6833.0	6822.5	6760.2	6682.2	6568.0	6516.0	6505.6
25°	7212.2	7186.3	7139.5	7201.9	7233.0	7279.8	7160.3	7118.7	6942.0	6864.1	6869.3
27.5°	7550.0	7586.4	7638.3	7664.3	7742.2	7726.7	7643.5	7508.4	7373.3	7285.0	7227.8
30°	8012.5	8033.2	8121.6	8158.0	8293.0	8329.4	8199.5	8043.7	7804.6	7690.3	7622.7
32.5°	8438.5	8584.0	8578.9	8760.7	8978.9	9129.6	8895.8	8656.7	8417.7	8282.7	8163.2
35°	9129.6	9103.7	9254.4	9446.6	9799.9	9971.4	9716.8	9441.4	9077.7	8859.4	8765.9
37.5°	9773.9	9784.4	9987.0	10293.6	10698.9	10963.9	10740.4	10288.4	9914.2	9633.7	9503.7
40°	10709.3	10730.1	10937.9	11286.1	11743.3	12029.1	11769.3	11312.0	10813.2	10594.9	10594.9
42.5°	11805.6	11894.0	12029.1	12330.5	12741.0	13058.0	12824.1	12465.6	11961.5	11680.9	11722.5
45°	12933.2	12974.8	13063.1	13510.0	13702.2	13858.2	13639.9	13473.6	13135.8	12793.0	12735.8
47.5°	13988.0	14003.7	14263.4	14403.7	14554.4	14424.5	14564.8	14346.5	13967.2	13634.7	13567.2
50°	14455.7	14429.7	14798.7	15224.7	15339.0	15110.4	14990.9	14845.4	14268.7	13868.5	13691.8
52.5°	13094.3	13245.0	13930.9	15115.6	16009.4	16201.6	15505.3	14835.0	13759.4	12980.0	12860.5
54°	11535.5	11675.8	12242.1	13998.4	15858.7	16508.2	15385.8	13962.0	12444.8	11519.8	11400.3
55°	9992.2	9836.3	10865.1	12657.8	15152.0	16237.9	14912.9	12834.5	11099.0	10252.0	10085.7
57.5°	5409.2	5435.1	6303.0	7996.9	10646.9	12450.0	10995.1	8682.7	6557.5	5606.6	5523.5
60°	1714.7	1756.3	2135.6	3232.0	5087.0	6074.3	5206.5	3486.6	2411.0	1933.0	1855.0
62.5°	535.2	556.0	608.0	904.2	1392.5	1990.1	1558.9	935.3	696.3	639.2	649.5
65°	327.3	327.3	332.5	353.3	415.7	483.2	467.7	410.5	394.9	384.5	379.3
67.5°	213.0	207.8	218.2	233.8	244.2	249.4	265.0	280.6	275.4	265.0	265.0
70°	129.9	124.7	135.1	155.9	161.1	171.5	187.0	207.8	202.7	192.3	197.5
72.5°	72.7	72.7	78.0	93.5	109.1	119.5	135.1	150.7	155.9	150.7	150.7
75°	26.0	31.2	41.5	57.2	67.5	83.2	98.7	114.3	129.9	119.5	114.3
77.5°	10.4	10.4	20.8	36.3	52.0	67.5	93.5	109.1	119.5	109.1	98.7
80°	5.2	5.2	15.6	31.2	46.8	62.3	78.0	93.5	98.7	88.3	78.0
82.5°	5.2	5.2	15.6	31.2	46.8	57.2	83.2	93.5	103.9	93.5	78.0
85°	0.0	5.2	15.6	31.2	41.5	46.8	46.8	31.2	26.0	15.6	15.6
87.5°	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)