

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: P650998

Luminaire Tested: **GALN-SA7C-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42978.5 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

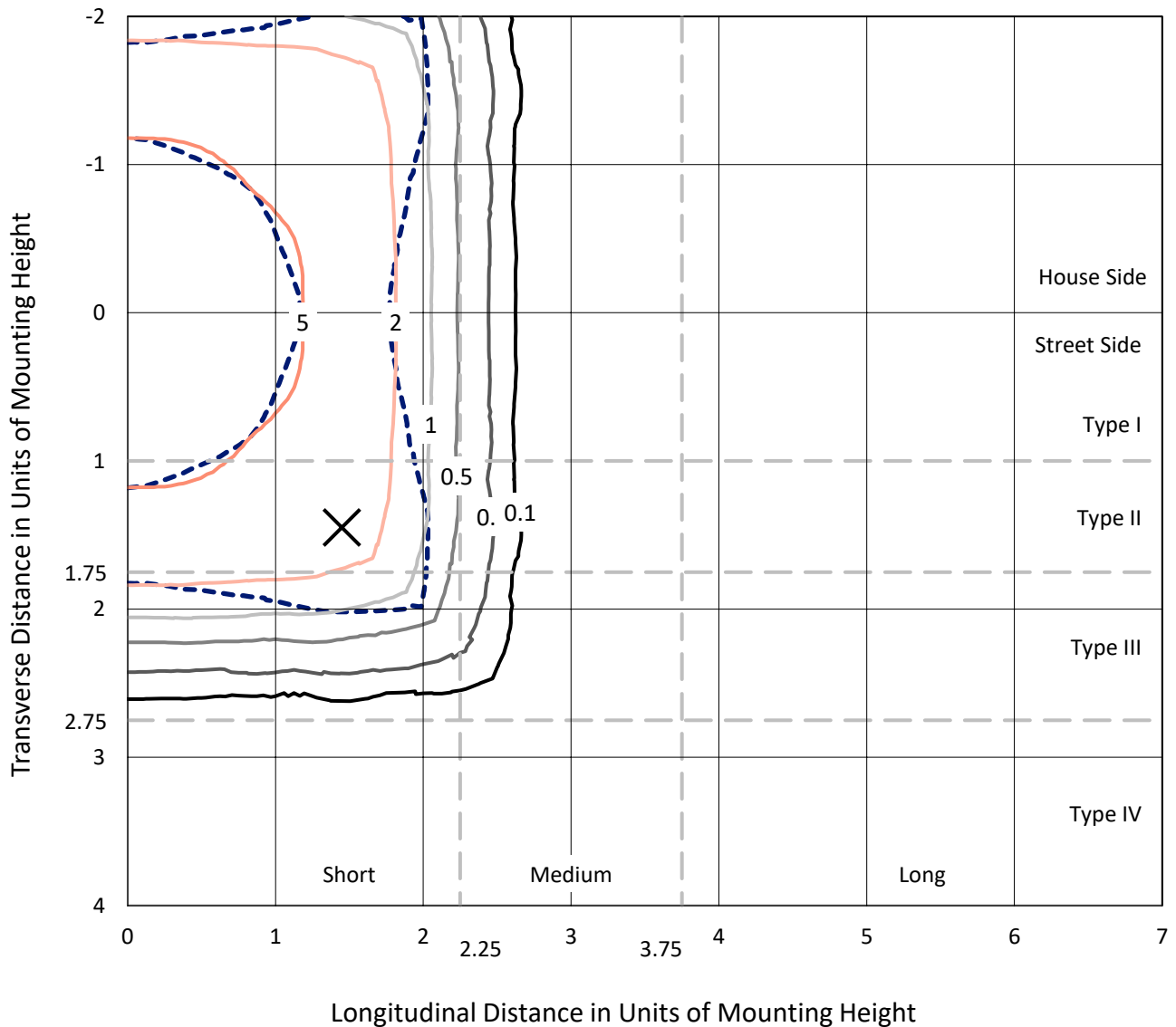
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

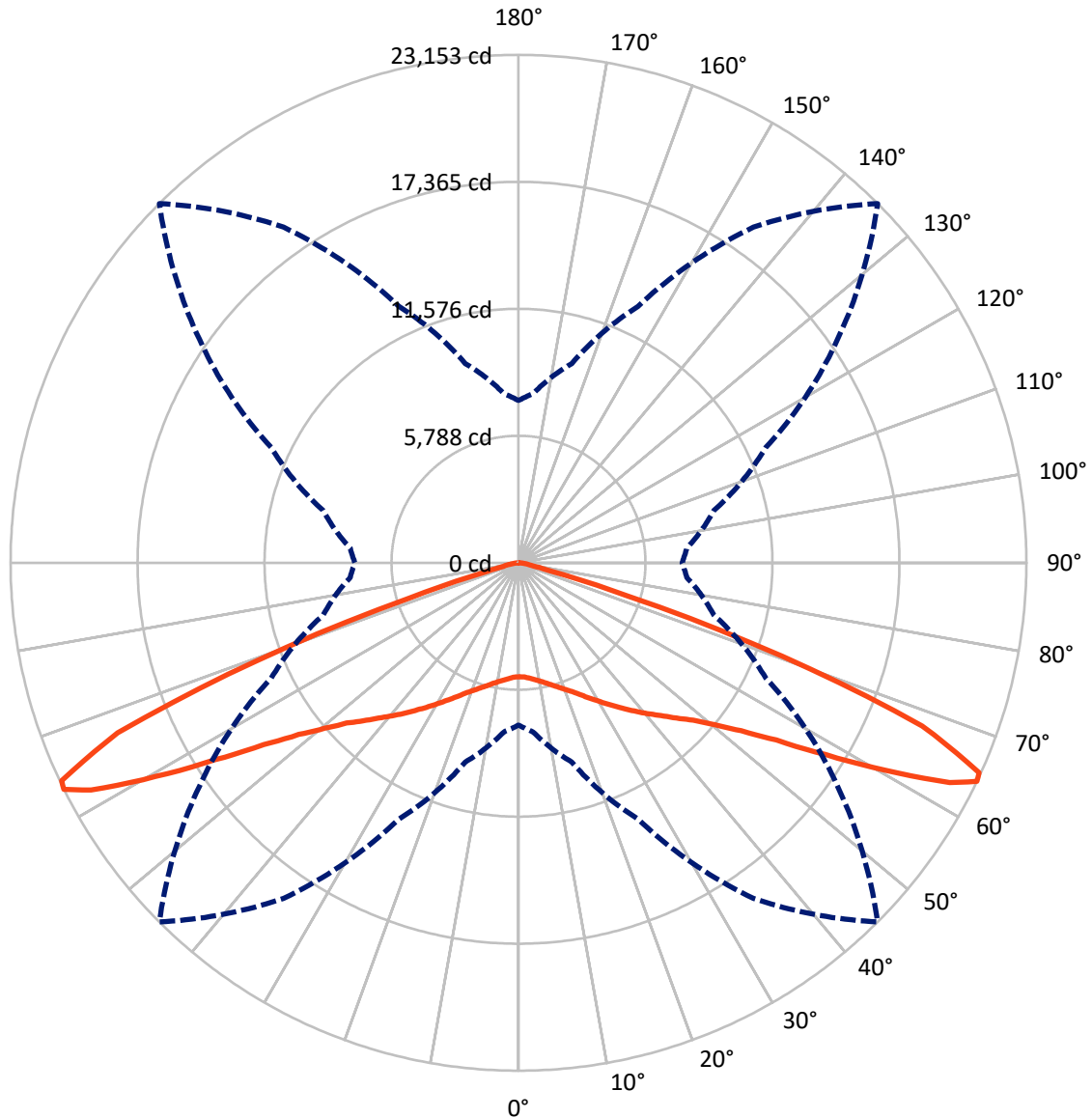
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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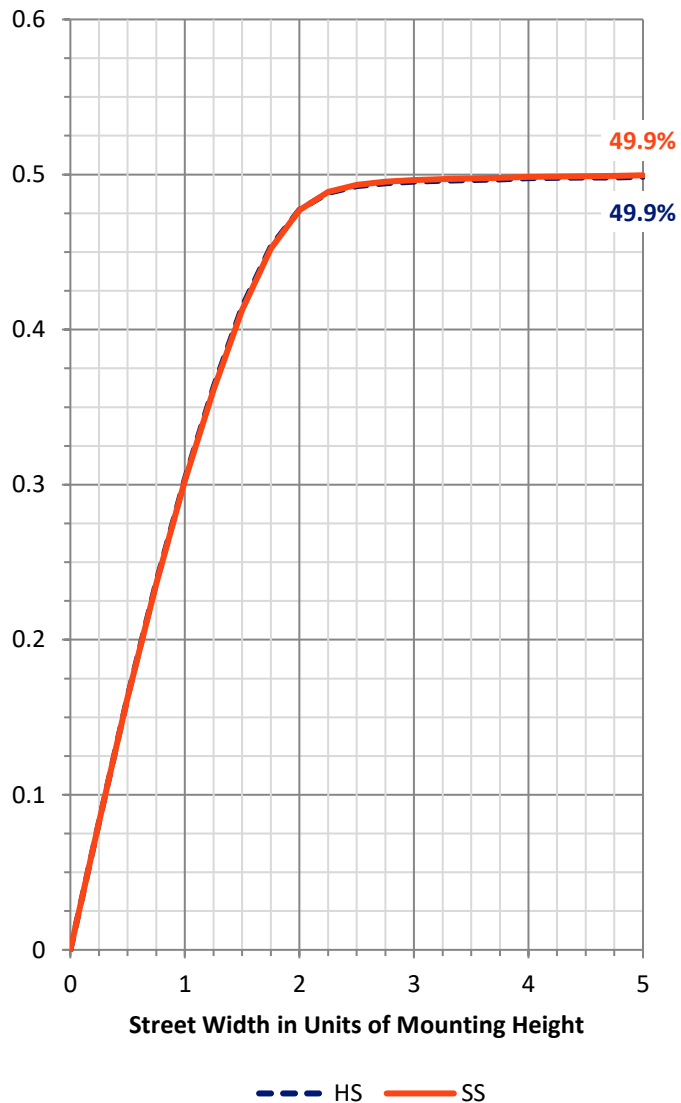
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21489.2	0.0	21489.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21489.2	0.0	21489.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42978.5	0.0	42978.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.3	1.2
10°-20°	1646.2	3.8
20°-30°	3110.8	7.2
30°-40°	5151.8	12.0
40°-50°	8042.9	18.7
50°-60°	12434.1	28.9
60°-70°	10721.8	24.9
70°-80°	1215.1	2.8
80°-90°	145.6	0.3
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°	42978.5	100.0
0°-180°	42978.5	100.0

**Coefficient of Utilization**

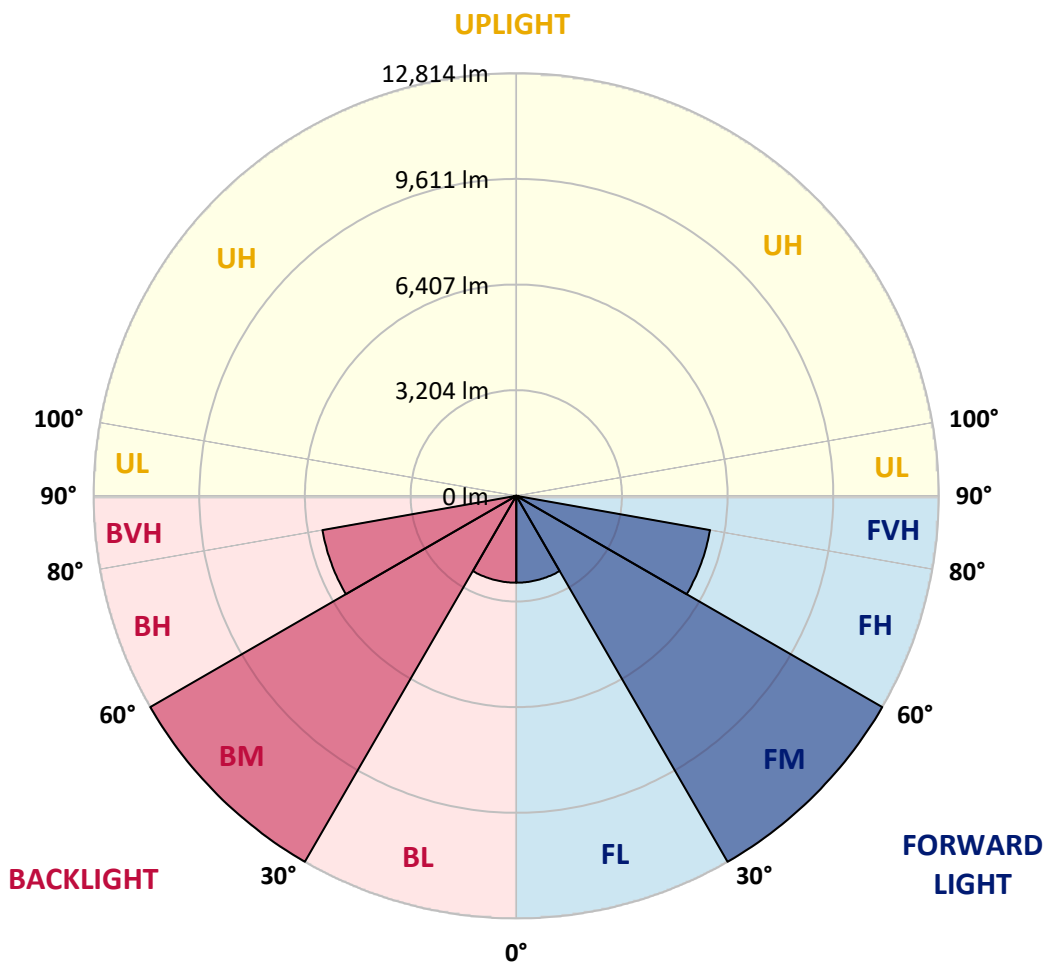


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2633.7	6.1			
FM (30°-60°)	12814.4	29.8			
FH (60°-80°)	5968.4	13.9			G3/7500
FVH (80°-90°)	72.8	0.2			G1/100
BL (0°-30°)	2633.7	6.1	B4/5000		
BM (30°-60°)	12814.4	29.8	B5		
BH (60°-80°)	5968.4	13.9	B5		G3/7500
BVH (80°-90°)	72.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5194.7	5194.7	5194.7	5194.7	5194.7	5194.7	5194.7	5194.7	5194.7	5194.7	5194.7
2.5°	5215.1	5226.6	5217.4	5215.1	5212.9	5212.9	5212.9	5215.1	5224.3	5231.1	5226.6
5°	5281.1	5290.3	5285.7	5283.4	5281.1	5283.4	5278.9	5276.6	5283.4	5283.4	5281.1
7.5°	5363.1	5374.5	5370.0	5374.5	5376.8	5379.0	5367.7	5358.6	5356.3	5363.1	5358.6
10°	5474.7	5483.7	5486.0	5488.3	5492.9	5490.6	5476.9	5461.0	5458.8	5456.5	5454.1
12.5°	5599.9	5606.7	5609.0	5618.0	5624.9	5627.2	5611.2	5597.6	5574.8	5579.4	5570.3
15°	5741.0	5754.6	5752.4	5766.1	5784.2	5788.8	5772.9	5750.1	5729.6	5718.2	5711.4
17.5°	5914.0	5923.1	5918.5	5932.2	5955.0	5966.4	5952.7	5923.1	5902.6	5877.6	5864.0
20°	6118.9	6134.8	6139.4	6139.4	6159.8	6171.3	6150.7	6141.7	6109.8	6091.5	6080.2
22.5°	6351.1	6357.9	6371.6	6385.2	6405.7	6401.1	6394.3	6380.7	6351.1	6335.2	6316.9
25°	6612.9	6619.7	6653.8	6683.4	6690.2	6685.7	6676.6	6669.7	6642.5	6606.1	6592.3
27.5°	6917.9	6931.5	6977.1	7004.4	7004.4	7006.6	6988.5	7011.2	6952.0	6908.8	6904.2
30°	7300.3	7309.4	7348.2	7375.4	7361.8	7350.4	7345.8	7368.6	7304.8	7227.5	7209.2
32.5°	7678.2	7710.0	7744.2	7803.4	7755.6	7735.1	7730.6	7746.5	7673.6	7587.2	7562.1
35°	8083.4	8106.1	8169.9	8219.9	8176.7	8128.9	8149.4	8199.5	8113.0	7996.9	7992.4
37.5°	8531.9	8552.3	8634.3	8686.6	8654.7	8572.8	8607.0	8666.2	8579.6	8436.2	8406.6
40°	8998.4	9041.8	9144.2	9198.8	9146.5	9037.2	9100.9	9164.6	9087.3	8921.1	8855.1
42.5°	9522.1	9590.3	9738.3	9765.6	9665.4	9517.5	9629.0	9731.5	9676.8	9485.6	9460.6
45°	10134.4	10175.3	10357.5	10416.6	10277.8	10093.4	10232.3	10418.9	10377.9	10157.2	10109.3
47.5°	10819.5	10858.2	11047.2	11136.0	10960.7	10712.6	10963.0	11206.6	11181.5	10944.8	10922.0
50°	11629.9	11639.1	11900.8	12001.0	11825.7	11611.8	11834.8	12137.6	12037.4	11734.6	11730.1
52.5°	12517.8	12529.1	12859.2	13052.7	12954.8	12713.5	12977.6	13162.0	12907.0	12510.9	12481.3
55°	13287.1	13344.1	13794.8	14309.3	14443.6	14268.2	14348.0	14261.4	13633.2	13077.7	12991.3
57.5°	13601.3	13712.8	14398.0	15358.7	16232.8	16492.3	15877.7	15053.6	13922.3	13136.9	13052.7
60°	12834.2	12954.8	14017.9	15841.2	18072.1	19198.9	17471.1	15188.0	13264.4	12160.4	12028.3
62.5°	10277.8	10311.9	11875.8	14705.3	19144.3	22062.5	18142.6	14042.9	11350.0	9849.9	9797.5
64°	7395.9	7746.5	9403.6	12893.4	18675.3	23152.9	17755.7	12438.1	9219.3	7701.0	7455.1
65°	5531.6	5627.2	7580.3	11010.8	17849.0	23071.0	17004.4	10903.8	7634.9	5893.5	5620.3
67.5°	2089.7	2101.1	2797.7	5488.3	12706.7	19850.0	12977.6	5932.2	3216.5	2326.5	2242.2
70°	867.3	883.2	1026.6	1846.2	5461.0	12745.4	6257.7	2139.8	1176.9	953.8	940.2
72.5°	635.1	644.2	687.4	819.5	1680.0	5233.4	2057.8	908.3	689.7	616.9	610.1
75°	498.5	503.1	535.0	603.2	783.1	1450.1	855.9	623.7	525.9	473.5	468.9
77.5°	380.1	391.6	414.3	459.9	525.9	687.4	566.8	466.7	405.2	362.0	355.2
80°	261.8	275.4	318.7	336.9	352.8	446.2	386.9	352.8	316.4	264.1	248.1
82.5°	161.6	170.7	214.0	229.9	223.1	250.4	248.1	252.6	225.4	163.9	152.6
85°	84.2	88.8	116.1	120.7	111.5	102.4	127.5	147.9	138.8	93.4	91.1
87.5°	18.2	20.5	25.1	22.8	25.1	25.1	31.9	47.8	50.0	31.9	29.6
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)