

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: P652072

Luminaire Tested: **GALN-SA8A-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31001.8 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

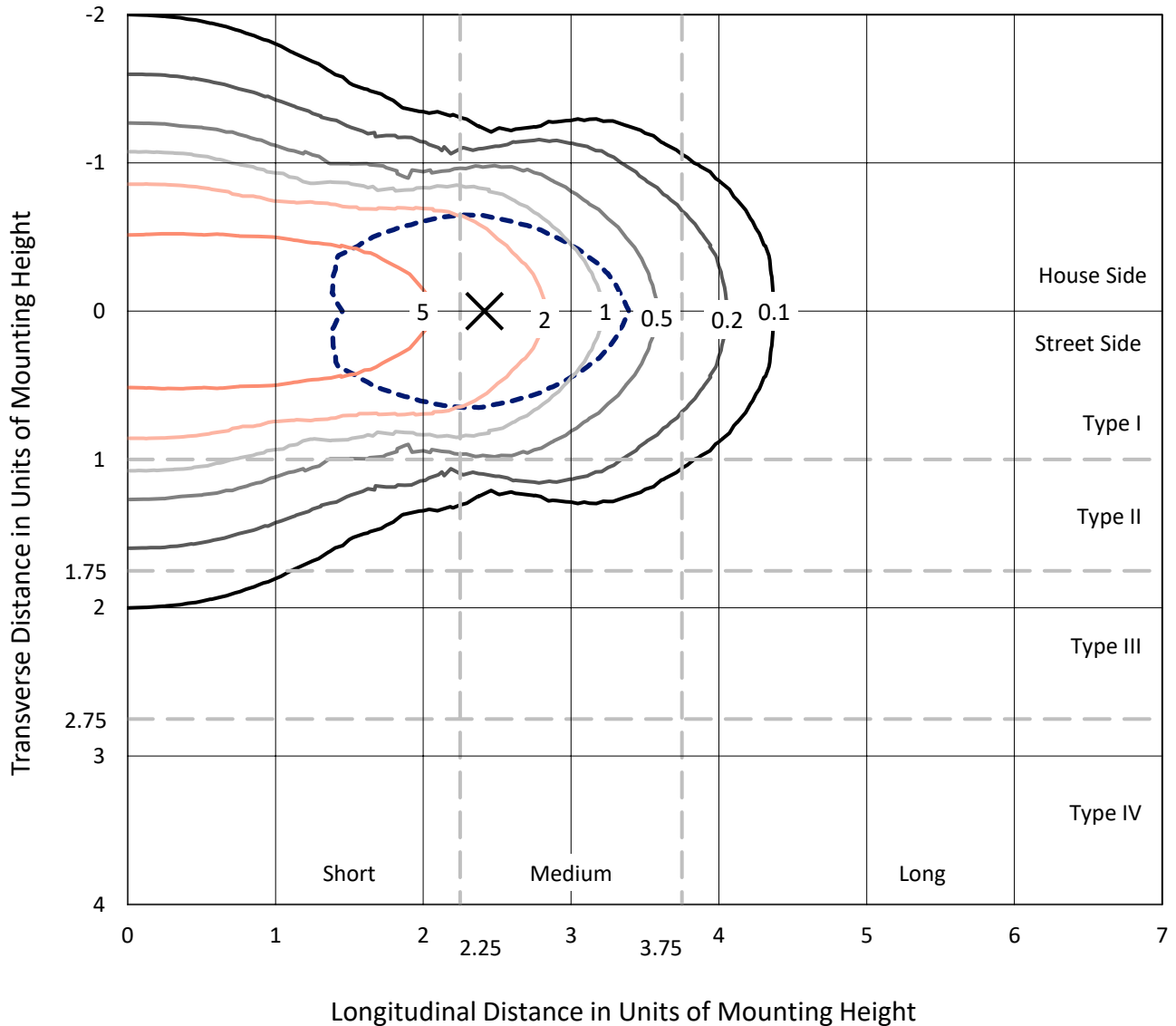
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

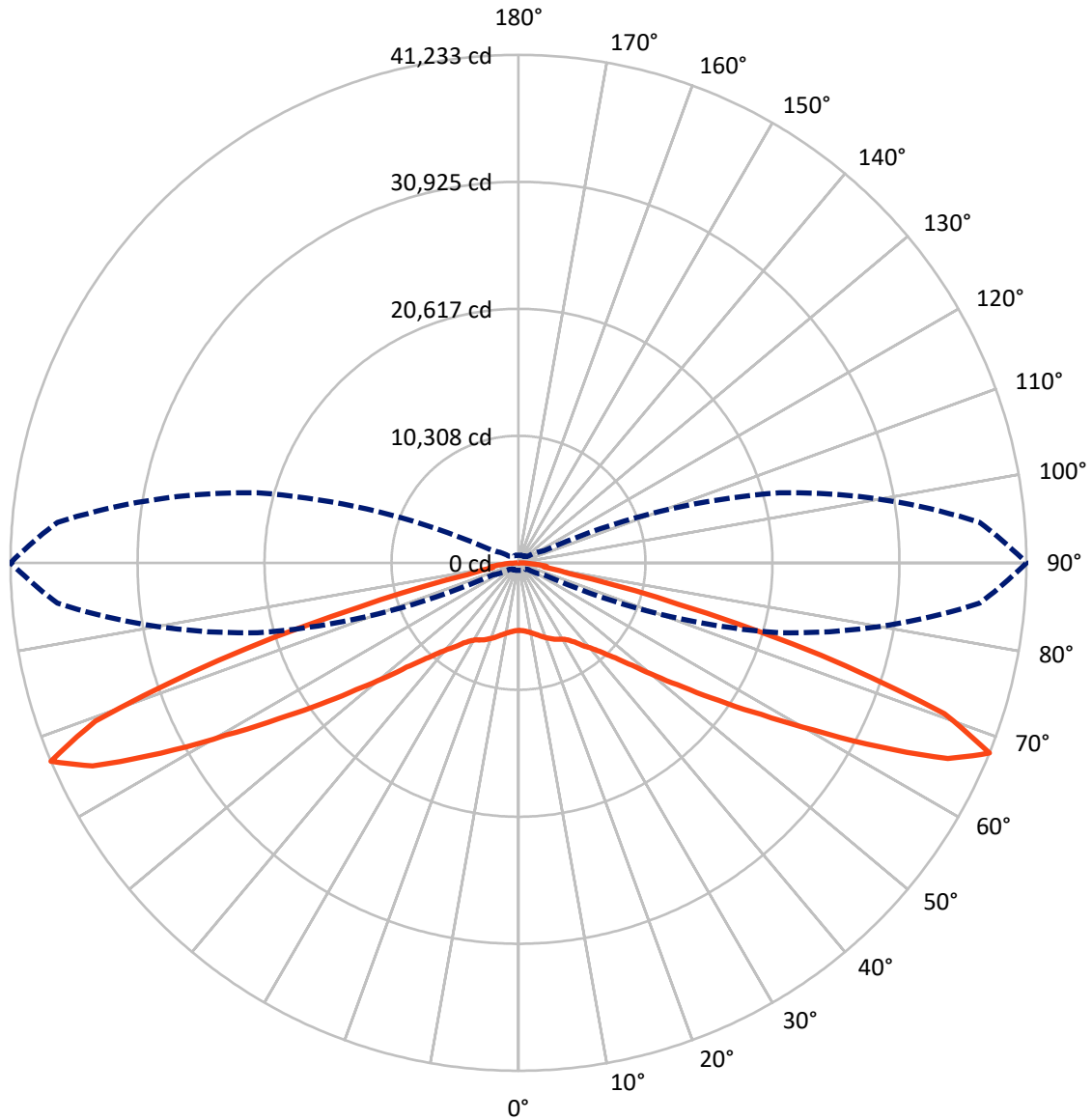
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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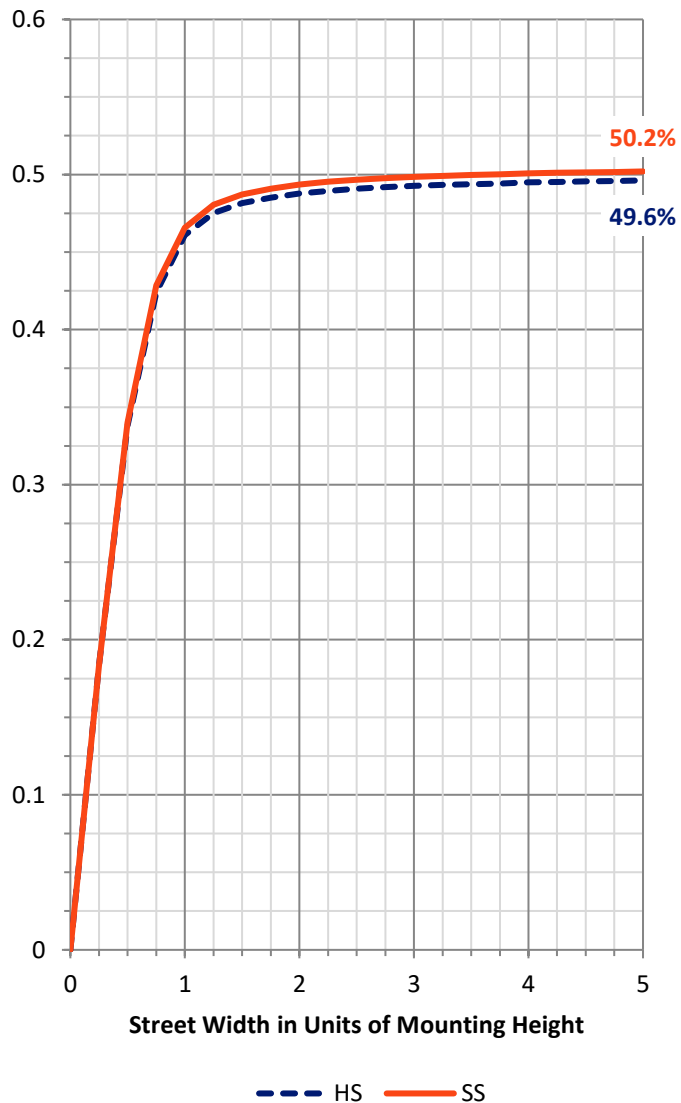
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15500.9	0.0	15500.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15500.9	0.0	15500.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31001.8	0.0	31001.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.2	1.8
10°-20°	1750.7	5.6
20°-30°	2930.2	9.5
30°-40°	3969.7	12.8
40°-50°	5028.2	16.2
50°-60°	6281.5	20.3
60°-70°	7383.6	23.8
70°-80°	2824.6	9.1
80°-90°	286.2	0.9
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°	31001.8	100.0
0°-180°	31001.8	100.0

**Coefficient of Utilization**



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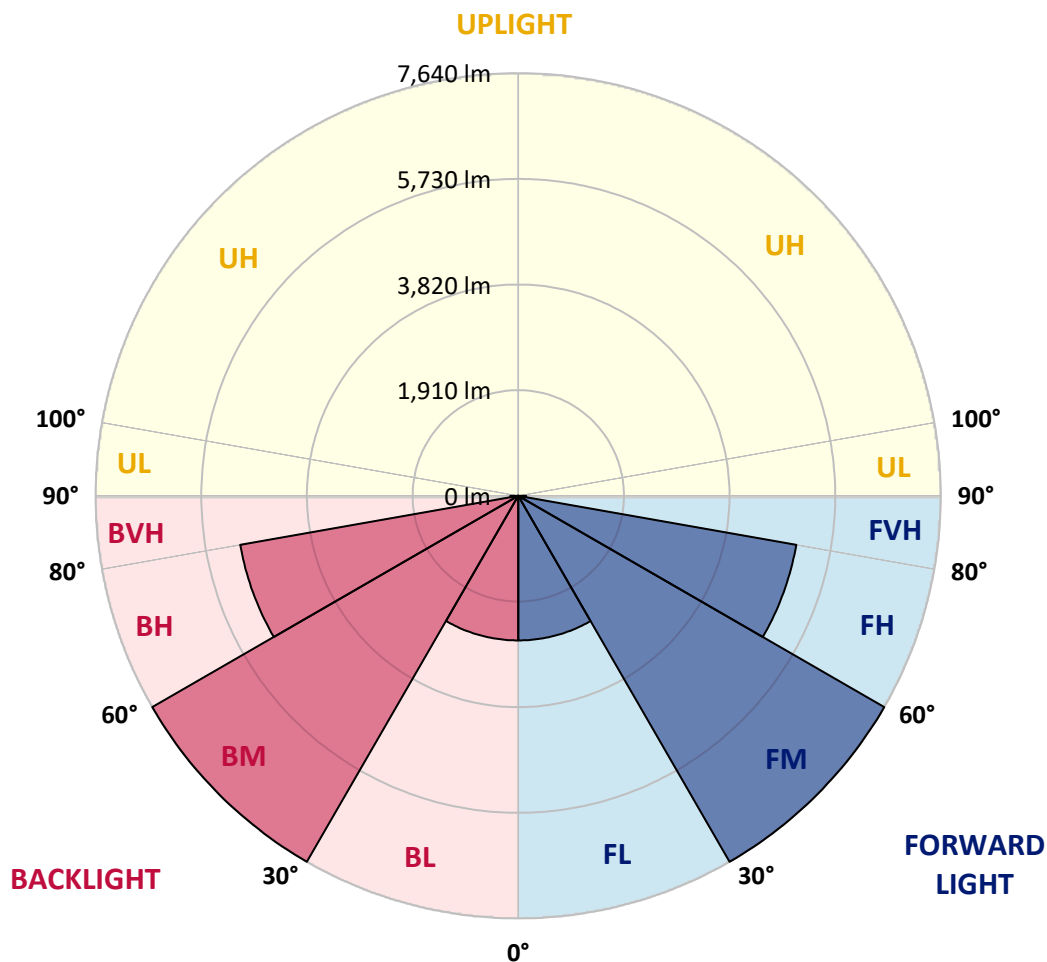
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.0	8.4			
FM (30°-60°)	7639.7	24.6			
FH (60°-80°)	5104.1	16.5			G3/7500
FVH (80°-90°)	143.1	0.5			G2/225
BL (0°-30°)	2614.0	8.4	B4/5000		
BM (30°-60°)	7639.7	24.6	B4/8500		
BH (60°-80°)	5104.1	16.5	B5		G5
BVH (80°-90°)	143.1	0.5			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5488.3	5488.3	5488.3	5488.3	5488.3	5488.3	5488.3	5488.3	5488.3	5488.3	5488.3
2.5°	5558.7	5555.2	5556.9	5555.2	5560.4	5556.9	5536.4	5519.1	5505.4	5507.2	5502.0
5°	5677.1	5678.9	5680.5	5672.0	5684.0	5677.1	5644.5	5617.0	5589.5	5579.3	5575.8
7.5°	5775.0	5783.6	5788.7	5797.3	5817.9	5817.9	5800.7	5761.3	5701.1	5666.8	5665.1
10°	5872.8	5879.7	5895.2	5922.6	5957.0	5989.5	5982.7	5929.5	5852.2	5793.8	5780.1
12.5°	5907.2	5915.8	5967.2	6046.2	6123.5	6187.0	6187.0	6144.1	6044.5	5955.2	5929.5
15°	5787.0	5802.4	5895.2	6063.4	6266.0	6405.0	6435.9	6375.8	6269.4	6132.1	6101.1
17.5°	5548.3	5586.2	5721.7	5970.7	6307.2	6595.5	6684.9	6655.7	6518.3	6343.2	6307.2
20°	5292.6	5333.8	5478.0	5807.6	6272.9	6707.1	6966.3	6973.2	6803.3	6549.2	6496.0
22.5°	5011.0	5042.0	5227.3	5613.6	6169.8	6732.9	7208.4	7326.9	7096.9	6755.2	6679.6
25°	4695.1	4729.5	4923.5	5340.7	5975.8	6703.7	7429.9	7690.8	7404.1	6974.9	6878.8
27.5°	4393.0	4406.8	4614.5	5038.5	5720.1	6628.2	7593.0	8025.6	7744.0	7156.9	7035.0
30°	4102.9	4135.5	4319.2	4738.1	5426.5	6480.5	7733.8	8406.6	8109.7	7347.5	7191.2
32.5°	3795.6	3835.1	4034.3	4458.2	5133.0	6259.1	7819.5	8823.9	8619.6	7656.5	7489.9
35°	3500.3	3526.1	3727.0	4139.0	4846.3	6001.5	7835.0	9294.2	9277.1	8125.2	7903.6
37.5°	3198.2	3236.0	3438.5	3833.4	4542.4	5728.6	7757.7	9793.8	10070.1	8775.8	8537.2
40°	2908.1	2940.7	3139.9	3538.1	4197.3	5395.6	7574.0	10250.4	10995.5	9445.3	9107.1
42.5°	2592.2	2600.8	2818.8	3224.0	3859.1	5009.3	7309.7	10657.2	12027.1	10343.1	9922.5
45°	2233.4	2255.7	2458.3	2856.6	3471.1	4576.7	6950.9	10993.7	13335.3	11587.7	11014.3
47.5°	1874.7	1893.5	2079.0	2472.0	3047.1	4080.6	6398.2	11289.0	14677.7	13168.8	12416.9
50°	1524.4	1534.7	1685.8	2034.3	2569.9	3558.7	5713.2	11383.4	16195.3	15407.4	14447.7
52.5°	1205.2	1220.5	1335.6	1608.6	2060.0	2942.4	4973.3	11150.0	17967.0	18061.4	16708.7
55°	976.8	982.0	1067.8	1268.6	1610.3	2296.9	4080.6	10499.3	19872.5	21462.2	19736.8
57.5°	841.2	844.6	892.7	1004.2	1239.5	1732.1	3165.6	9268.4	21584.0	25446.6	23228.6
60°	764.0	765.6	793.1	858.3	982.0	1328.7	2267.8	7531.2	23273.2	29880.8	27568.4
62.5°	715.9	715.9	734.8	770.8	830.9	1019.7	1642.9	5433.4	24430.3	34380.3	32917.7
65°	669.5	669.5	683.2	709.0	741.6	834.4	1213.7	3543.3	24401.1	37657.5	38297.8
67.5°	616.3	616.3	626.6	652.4	671.2	717.5	937.3	2321.0	21918.8	37585.4	41233.4
70°	552.8	552.8	566.5	588.9	604.3	633.4	739.9	1588.0	16102.6	32092.0	36670.4
72.5°	489.3	491.0	499.6	521.8	533.9	551.0	614.6	1112.4	9877.9	21851.9	25640.6
75°	418.9	422.3	430.9	453.2	463.5	470.4	518.5	793.1	4997.3	11781.7	13414.3
77.5°	338.2	345.1	350.2	374.2	381.1	391.4	427.5	573.4	2193.9	4233.3	4271.1
80°	247.2	255.7	271.2	293.6	298.7	305.5	326.1	406.9	994.0	1933.0	2099.6
82.5°	182.0	194.0	175.1	204.3	204.3	195.7	230.0	273.0	456.7	1914.1	2290.0
85°	99.6	101.3	91.0	104.7	111.6	109.8	121.9	133.9	221.4	1277.2	1316.7
87.5°	24.1	25.7	27.5	32.6	39.4	39.4	42.9	37.8	72.1	413.7	236.9
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)