

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: P651118

Luminaire Tested: **GALN-SA9C-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55301.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

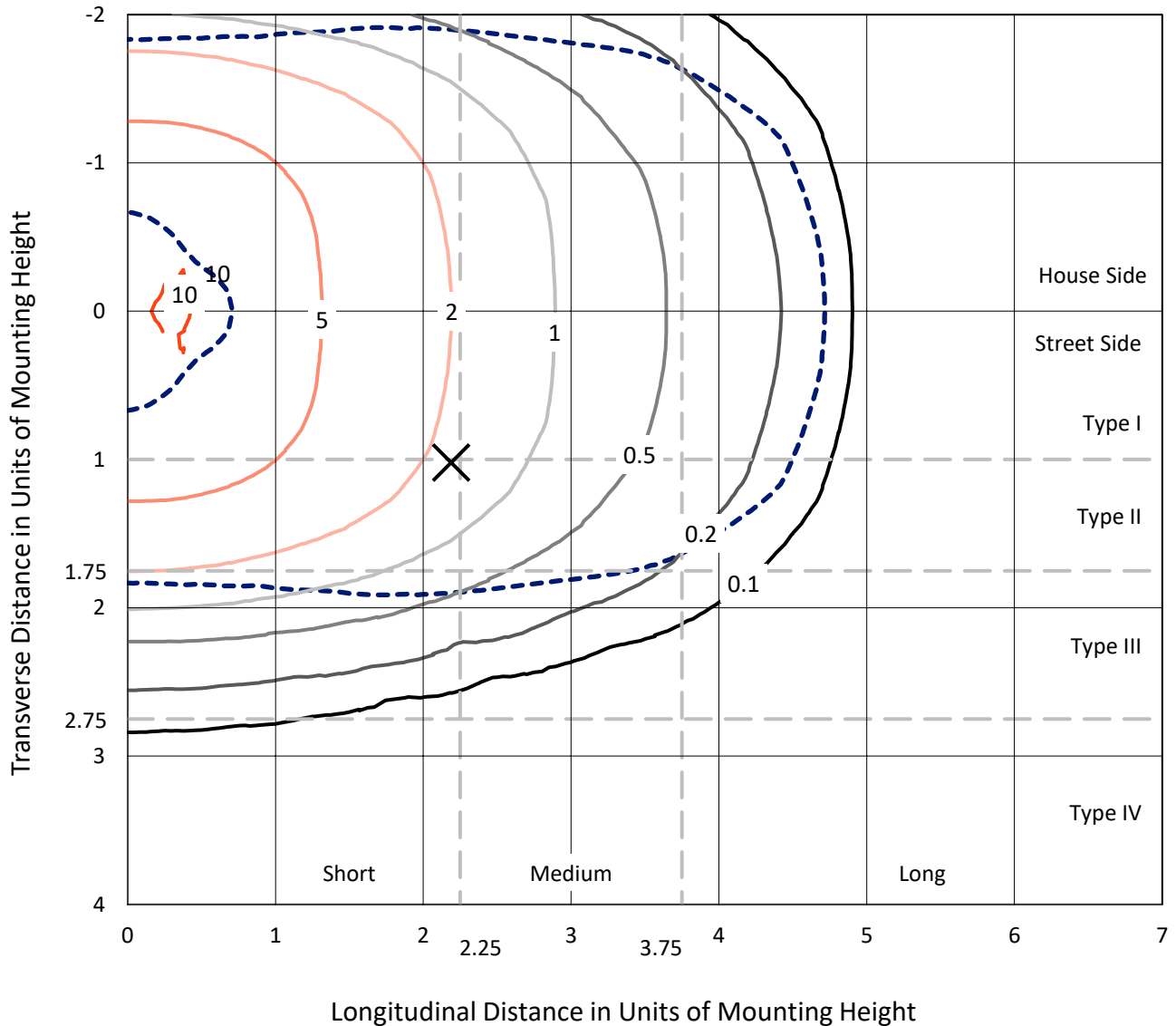
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

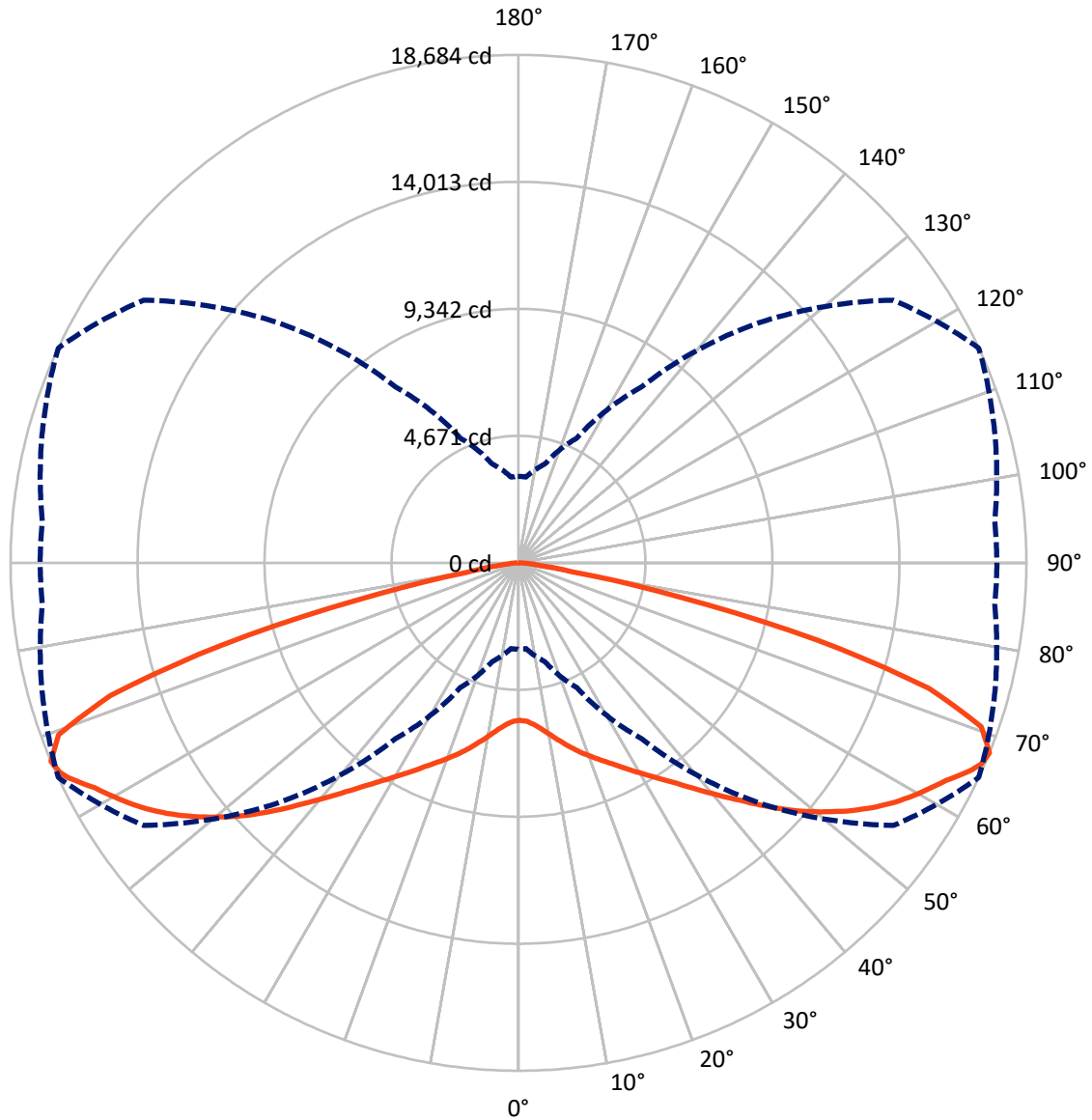
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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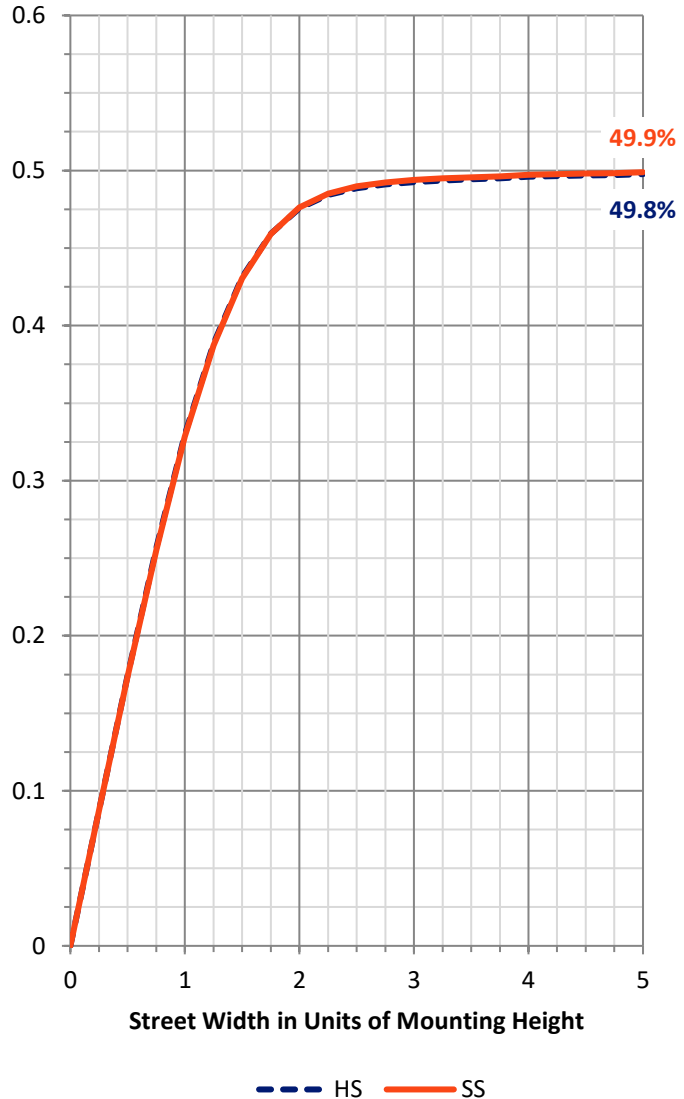
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27650.8	0.0	27650.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27650.8	0.0	27650.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55301.6	0.0	55301.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.3	1.0
10°-20°	1912.0	3.5
20°-30°	3740.1	6.8
30°-40°	6361.4	11.5
40°-50°	10068.1	18.2
50°-60°	13350.1	24.1
60°-70°	12593.3	22.8
70°-80°	6225.5	11.3
80°-90°	479.8	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°	55301.6	100.0
0°-180°	55301.6	100.0

**Coefficient of Utilization**

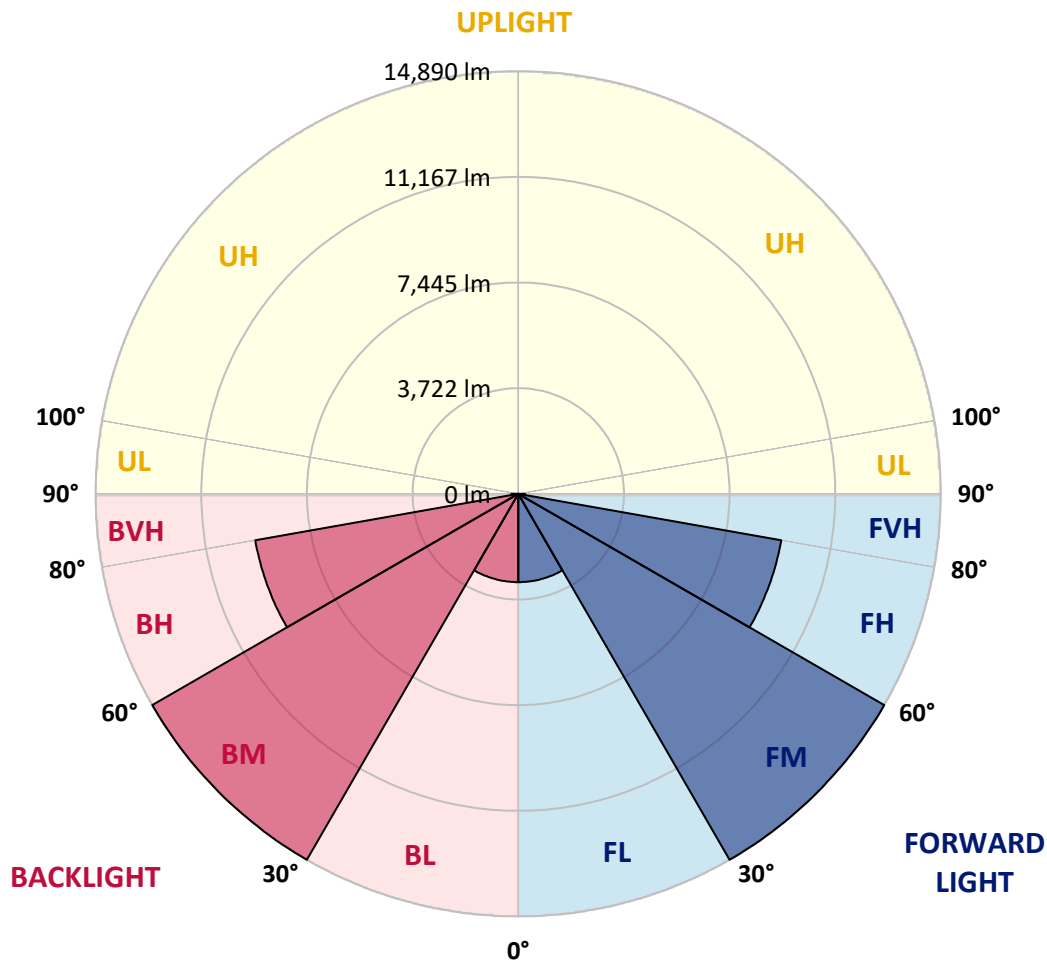


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3111.7	5.6			
FM (30°-60°)	14889.8	26.9			
FH (60°-80°)	9409.4	17.0			G4/12000
FVH (80°-90°)	239.9	0.4			G3/500
BL (0°-30°)	3111.7	5.6	B4/5000		
BM (30°-60°)	14889.8	26.9	B5		
BH (60°-80°)	9409.4	17.0	B5		G5
BVH (80°-90°)	239.9	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4
2.5°	5762.7	5768.7	5774.6	5783.5	5795.3	5813.1	5824.9	5833.8	5857.6	5860.5	5857.6
5°	5742.0	5747.9	5762.7	5789.4	5827.9	5881.3	5922.7	5973.1	6011.6	6038.3	6032.3
7.5°	5739.1	5750.8	5774.6	5830.9	5904.9	5996.8	6091.6	6177.6	6251.6	6310.9	6301.9
10°	5786.4	5801.2	5839.7	5922.7	6038.3	6171.6	6304.9	6432.3	6539.0	6616.1	6642.7
12.5°	5866.4	5878.3	5949.4	6073.9	6239.7	6405.6	6556.8	6713.8	6862.0	6992.3	6992.3
15°	6005.7	6026.4	6115.3	6296.1	6500.5	6693.1	6847.2	7013.0	7173.1	7321.2	7365.6
17.5°	6198.3	6227.9	6361.2	6592.3	6853.1	7030.8	7176.0	7312.3	7451.5	7593.7	7614.5
20°	6462.0	6491.6	6669.4	6947.8	7256.0	7469.3	7567.1	7599.7	7667.8	7804.1	7821.9
22.5°	6820.4	6850.1	7048.6	7362.7	7706.3	7937.4	7978.9	7901.9	7884.1	7990.8	8002.6
25°	7226.4	7253.0	7481.2	7818.9	8174.5	8426.3	8414.5	8224.8	8118.2	8183.4	8201.2
27.5°	7682.6	7721.1	7952.2	8301.8	8687.0	8909.3	8873.7	8598.1	8370.1	8358.2	8364.1
30°	8266.4	8307.8	8527.1	8861.9	9241.1	9445.5	9371.5	9001.1	8648.5	8530.0	8530.0
32.5°	8882.6	8986.3	9208.5	9558.1	9854.4	10002.5	9890.0	9445.5	8977.4	8811.5	8802.6
35°	9685.5	9741.8	9961.1	10301.8	10524.0	10639.6	10423.3	9946.3	9407.0	9211.5	9184.8
37.5°	10470.7	10518.1	10772.9	11098.8	11368.5	11362.5	11069.2	10541.8	9940.4	9721.1	9703.3
40°	11273.6	11324.0	11614.4	11913.6	12183.2	12159.5	11803.9	11214.4	10574.4	10328.5	10375.8
42.5°	11969.9	12026.2	12355.0	12781.7	13024.7	13018.8	12606.9	11943.2	11276.5	11057.3	11098.8
45°	12603.9	12654.3	13036.5	13525.4	13881.0	13925.4	13475.0	12772.9	12088.4	11807.0	11818.7
47.5°	13051.3	13146.2	13546.2	14106.1	14589.1	14746.1	14304.6	13617.2	12829.1	12535.8	12553.6
50°	13392.1	13451.3	13886.8	14523.8	15134.2	15460.1	15104.6	14399.4	13569.8	13258.7	13300.2
52.5°	13433.5	13504.6	13978.7	14713.5	15495.7	15990.4	15815.7	15163.8	14325.3	14005.3	14094.2
55°	13095.8	13137.3	13703.2	14595.0	15637.9	16384.5	16428.9	15874.9	15045.3	14802.4	14861.6
57.5°	12132.9	12239.5	12956.5	14040.9	15442.4	16594.9	16888.2	16520.8	15774.2	15534.2	15629.0
60°	10553.6	10660.3	11380.2	12755.0	14704.6	16497.1	17267.4	17092.7	16434.9	16242.3	16292.7
62.5°	8269.3	8260.4	9152.2	10838.1	13238.0	16017.1	17548.9	17643.8	17086.7	16843.8	16920.8
65°	5359.8	5386.4	6248.6	8064.9	11024.8	14796.5	17611.1	18345.9	17726.7	17359.3	17415.6
66°	4311.0	4390.9	5122.8	6796.8	9895.9	13996.5	17424.5	18553.3	17922.2	17477.8	17504.5
67.5°	3182.1	3167.3	3768.8	5060.5	7901.9	12476.6	16840.8	18683.7	18144.5	17584.5	17596.3
70°	1816.2	1813.3	2026.6	2779.2	4645.8	8784.8	14195.0	18058.5	18594.8	17969.6	17937.0
72.5°	1327.4	1318.4	1348.1	1534.7	2266.6	4435.3	9792.2	15783.0	18363.7	17907.4	17815.6
75°	1114.0	1108.1	1102.2	1125.8	1271.1	2008.8	5196.8	11353.6	15934.2	16808.2	16713.4
77.5°	909.6	909.6	912.6	906.6	912.6	1057.7	2154.0	6085.6	9703.3	10832.2	11095.8
80°	711.1	708.1	758.5	737.7	690.4	678.5	954.0	1958.4	3220.6	3202.9	2642.8
82.5°	524.4	488.9	577.8	563.0	509.6	432.6	557.0	835.5	1075.5	699.2	518.5
85°	331.9	328.9	408.9	373.3	311.1	204.4	266.7	358.5	444.5	269.6	219.2
87.5°	59.3	56.3	130.4	94.8	94.8	59.3	74.1	97.8	145.2	100.8	74.1
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)