

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: P651082

Luminaire Tested: **GALN-SA8C-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651082
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-SA8C-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47660.3 lumens
Efficiency: N/A
Efficacy: 111.1 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

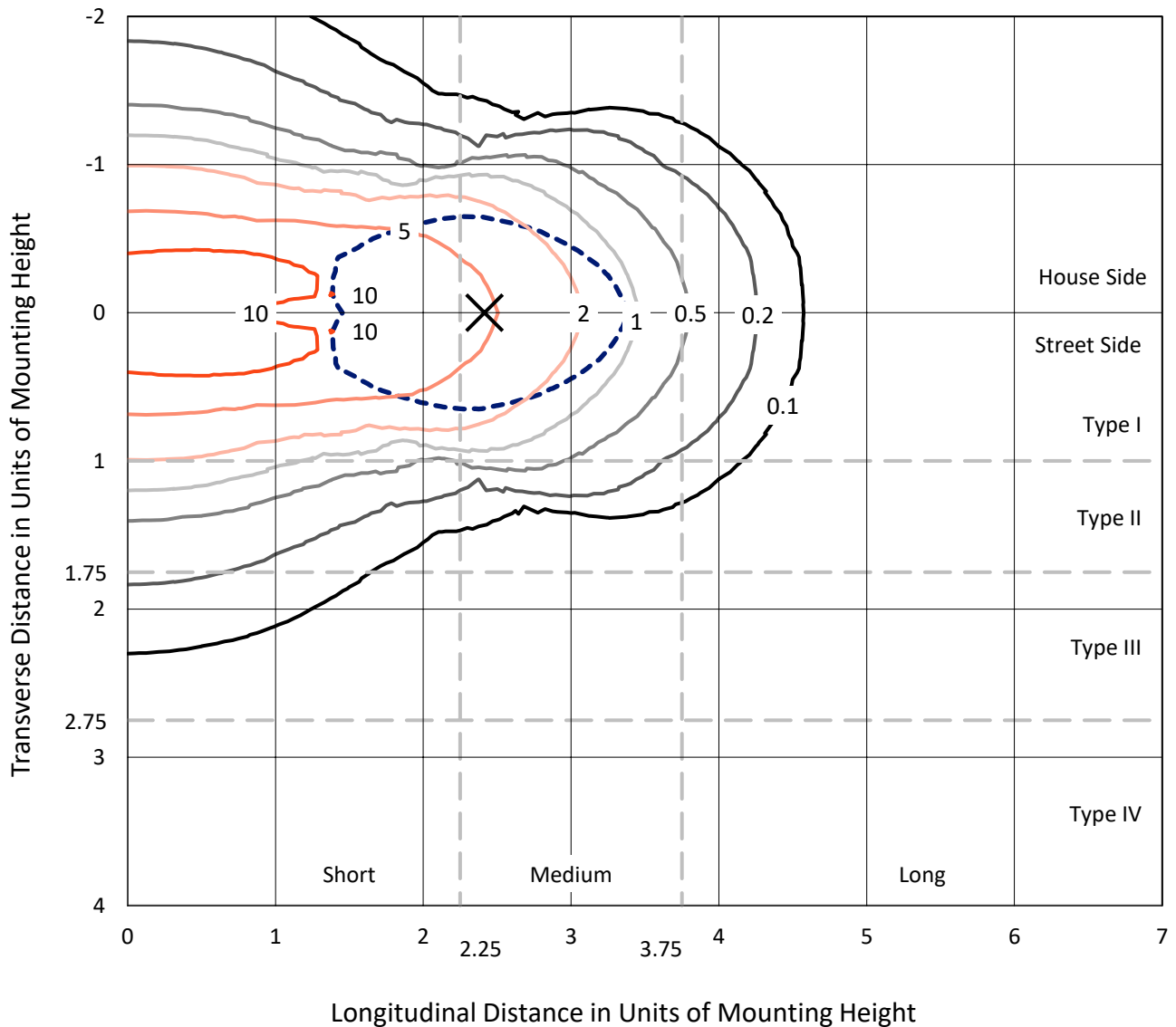
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

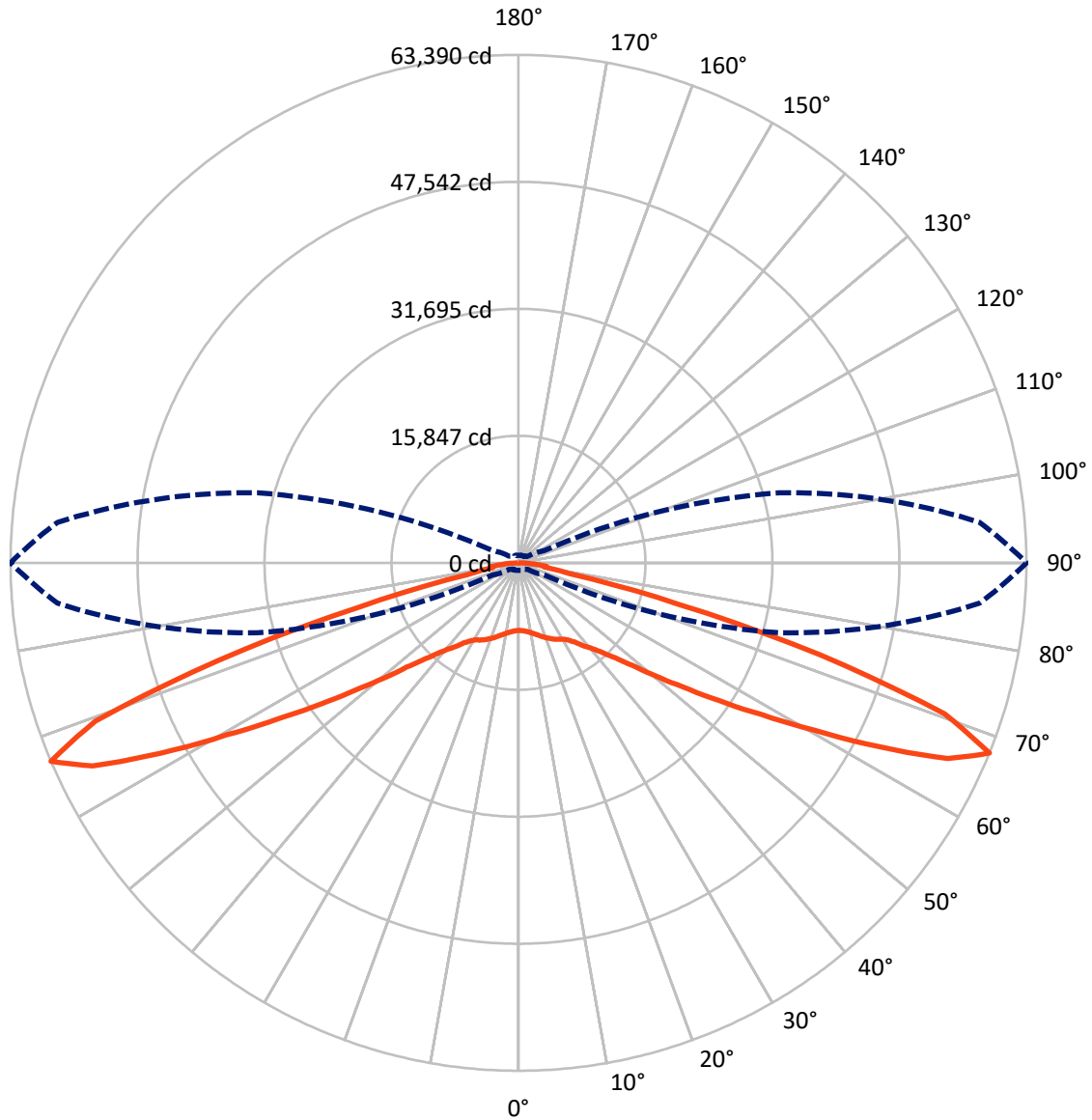
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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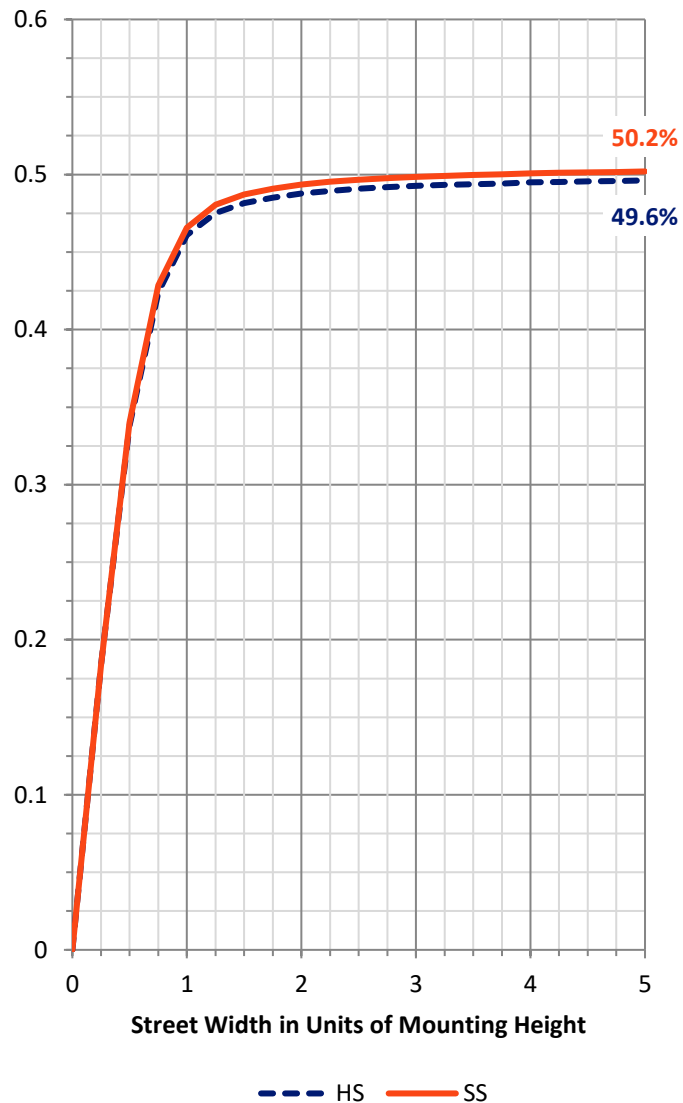
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23830.2	0.0	23830.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23830.2	0.0	23830.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	47660.3	0.0	47660.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.2	1.8
10°-20°	2691.4	5.6
20°-30°	4504.7	9.5
30°-40°	6102.7	12.8
40°-50°	7730.1	16.2
50°-60°	9656.8	20.3
60°-70°	11351.1	23.8
70°-80°	4342.3	9.1
80°-90°	439.9	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°	47660.3	100.0
0°-180°	47660.3	100.0

Coefficient of Utilization

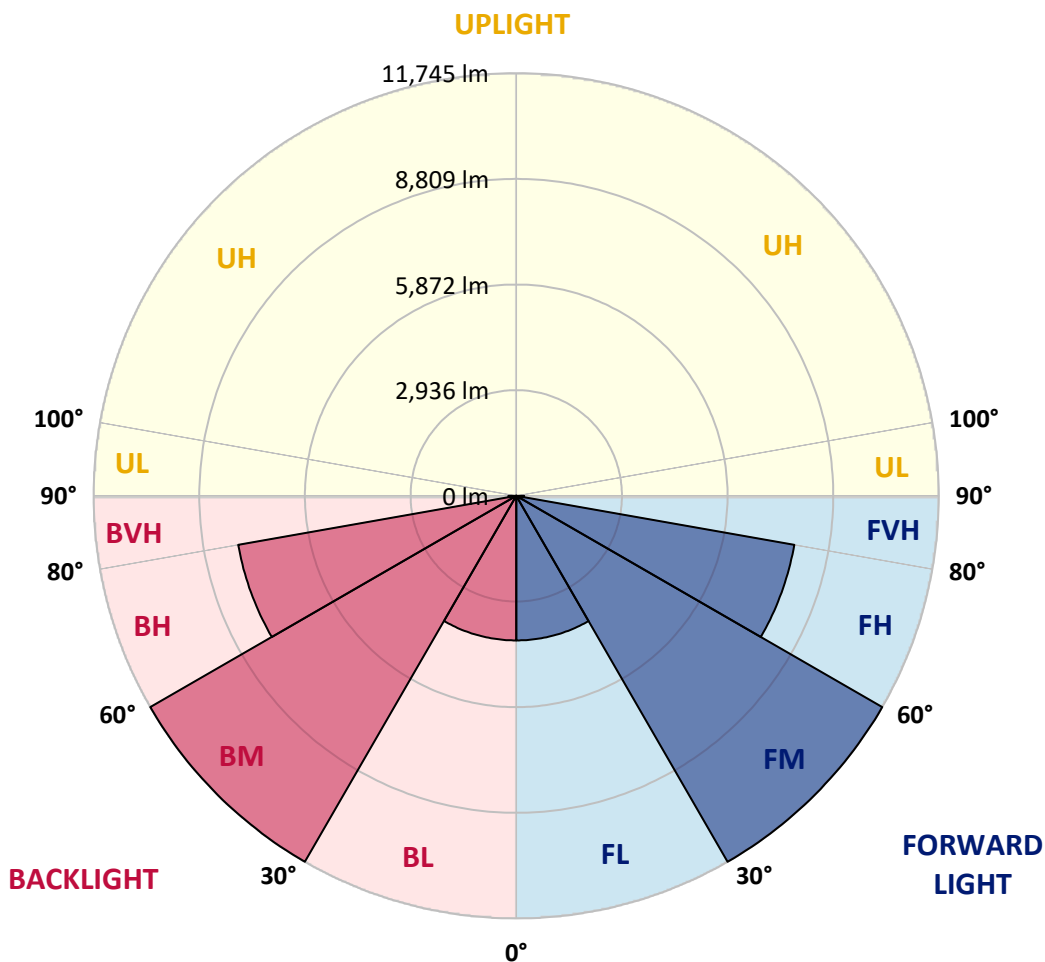


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4018.7	8.4			
FM (30°-60°)	11744.8	24.6			
FH (60°-80°)	7846.7	16.5			G4/12000
FVH (80°-90°)	220.0	0.5			G2/225
BL (0°-30°)	4018.7	8.4	B4/5000		
BM (30°-60°)	11744.8	24.6	B5		
BH (60°-80°)	7846.7	16.5	B5		G5
BVH (80°-90°)	220.0	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°	8437.3	8437.3	8437.3	8437.3	8437.3	8437.3	8437.3	8437.3	8437.3	8437.3	8437.3
2.5°	8545.6	8540.3	8543.0	8540.3	8548.2	8543.0	8511.3	8484.8	8463.7	8466.4	8458.4
5°	8727.6	8730.3	8732.9	8719.7	8738.2	8727.6	8677.5	8635.3	8593.1	8577.3	8572.0
7.5°	8878.1	8891.3	8899.2	8912.4	8944.0	8944.0	8917.7	8857.0	8764.6	8711.8	8709.2
10°	9028.6	9039.1	9062.9	9105.1	9157.8	9208.0	9197.4	9115.6	8996.8	8907.1	8886.0
12.5°	9081.3	9094.5	9173.7	9295.1	9413.8	9511.5	9511.5	9445.5	9292.5	9155.2	9115.6
15°	8896.6	8920.3	9062.9	9321.5	9632.9	9846.7	9894.2	9801.8	9638.2	9427.0	9379.5
17.5°	8529.8	8587.8	8796.3	9178.9	9696.2	10139.6	10276.9	10231.9	10020.9	9751.6	9696.2
20°	8136.5	8199.8	8421.5	8928.2	9643.4	10311.2	10709.6	10720.2	10458.9	10068.4	9986.5
22.5°	7703.6	7751.2	8036.2	8630.0	9485.1	10350.8	11081.8	11263.8	10910.2	10385.1	10268.9
25°	7218.1	7270.9	7569.1	8210.4	9186.9	10305.9	11422.2	11823.4	11382.7	10722.8	10575.1
27.5°	6753.6	6774.7	7094.0	7745.9	8793.7	10189.7	11673.0	12338.1	11905.2	11002.6	10815.3
30°	6307.6	6357.7	6640.1	7284.1	8342.4	9962.8	11889.4	12923.9	12467.3	11295.6	11055.4
32.5°	5835.2	5895.8	6202.0	6853.9	7891.0	9622.3	12021.3	13565.2	13251.1	11770.6	11514.6
35°	5381.2	5420.8	5729.6	6363.0	7450.3	9226.4	12045.1	14288.3	14261.9	12491.1	12150.6
37.5°	4916.7	4974.8	5286.2	5893.2	6983.2	8806.9	11926.3	15056.3	15481.2	13491.3	13124.5
40°	4470.8	4520.9	4827.0	5439.3	6452.7	8294.9	11643.9	15758.3	16903.8	14520.6	14000.7
42.5°	3985.1	3998.3	4333.5	4956.3	5932.8	7701.0	11237.5	16383.9	18489.9	15900.9	15254.3
45°	3433.6	3467.9	3779.3	4391.5	5336.4	7036.0	10685.9	16901.1	20500.9	17814.2	16932.8
47.5°	2881.9	2911.0	3196.0	3800.4	4684.5	6273.3	9836.1	17355.0	22564.7	20244.9	19088.9
50°	2343.5	2359.4	2591.6	3127.4	3950.8	5471.0	8783.1	17500.2	24897.7	23686.3	22211.1
52.5°	1852.7	1876.4	2053.2	2472.9	3167.0	4523.5	7645.6	17141.3	27621.3	27766.5	25686.8
55°	1501.7	1509.6	1641.5	1950.4	2475.5	3531.2	6273.3	16141.1	30550.8	32994.6	30342.3
57.5°	1293.2	1298.4	1372.3	1543.9	1905.5	2662.9	4866.6	14248.7	33182.0	39120.1	35710.3
60°	1174.5	1177.1	1219.3	1319.6	1509.6	2042.7	3486.3	11578.0	35778.9	45937.0	42382.1
62.5°	1100.5	1100.5	1129.5	1185.0	1277.3	1567.6	2525.7	8352.9	37557.7	52854.2	50605.7
65°	1029.3	1029.3	1050.4	1089.9	1140.1	1282.6	1865.8	5447.2	37512.9	57892.3	58876.8
67.5°	947.5	947.5	963.3	1002.9	1031.9	1103.1	1441.0	3568.1	33696.7	57781.5	63389.7
70°	849.8	849.8	870.9	905.3	929.0	973.9	1137.5	2441.2	24755.3	49336.3	56374.8
72.5°	752.2	754.8	768.0	802.3	820.8	847.1	944.8	1710.2	15185.7	33593.7	39418.3
75°	644.0	649.3	662.5	696.8	712.6	723.1	797.0	1219.3	7682.5	18112.4	20622.3
77.5°	519.9	530.5	538.4	575.3	585.9	601.7	657.2	881.5	3372.8	6508.2	6566.2
80°	380.0	393.3	417.0	451.3	459.2	469.8	501.4	625.5	1528.1	2971.7	3227.7
82.5°	279.7	298.2	269.2	314.0	314.0	300.8	353.6	419.7	702.0	2942.7	3520.6
85°	153.1	155.7	139.9	161.0	171.6	168.9	187.4	205.9	340.4	1963.6	2024.2
87.5°	36.9	39.6	42.2	50.1	60.7	60.7	66.0	58.0	110.8	636.0	364.2
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)