

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: P529477

Luminaire Tested: **GALN-SA4C-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13213 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

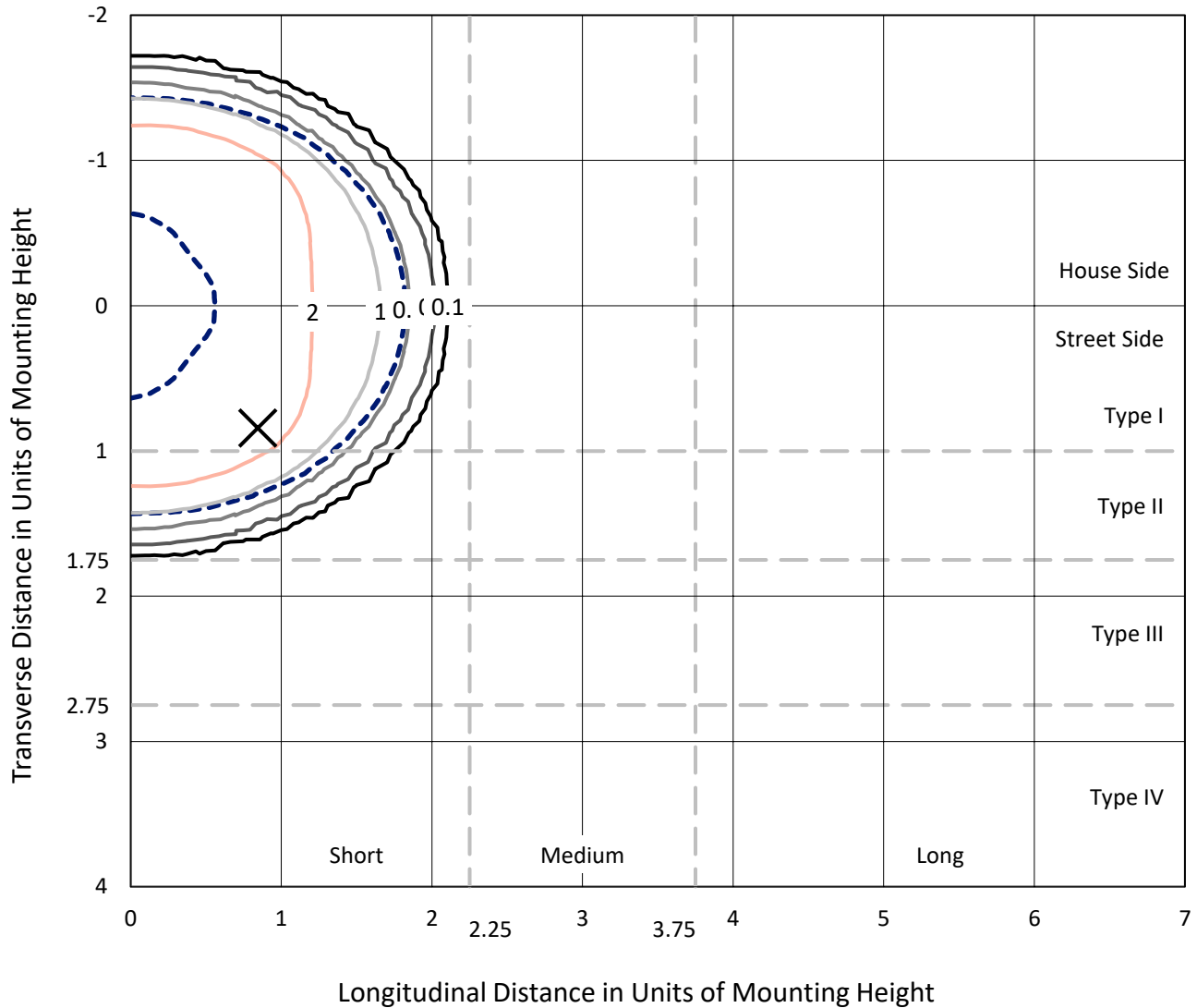
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

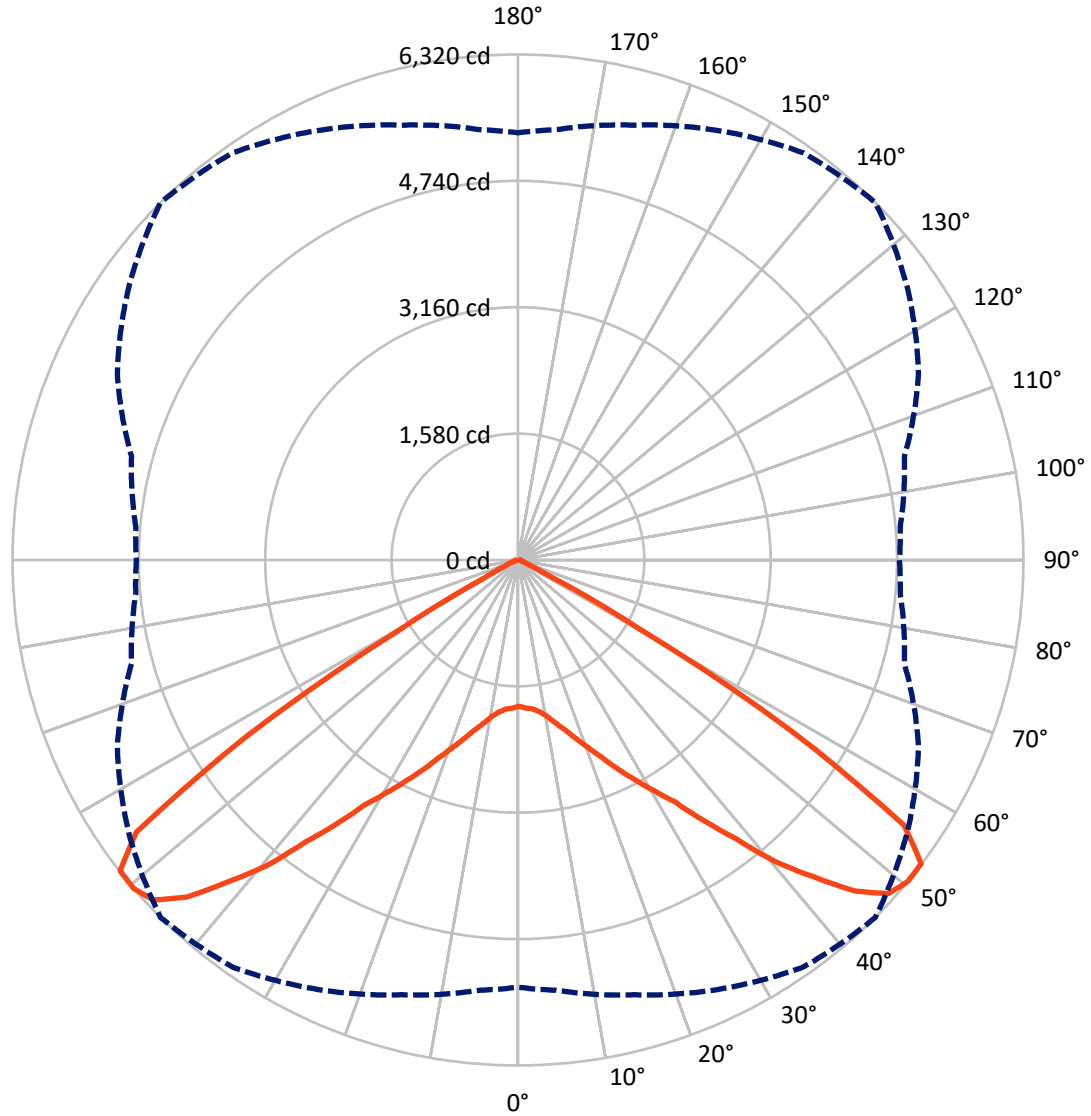
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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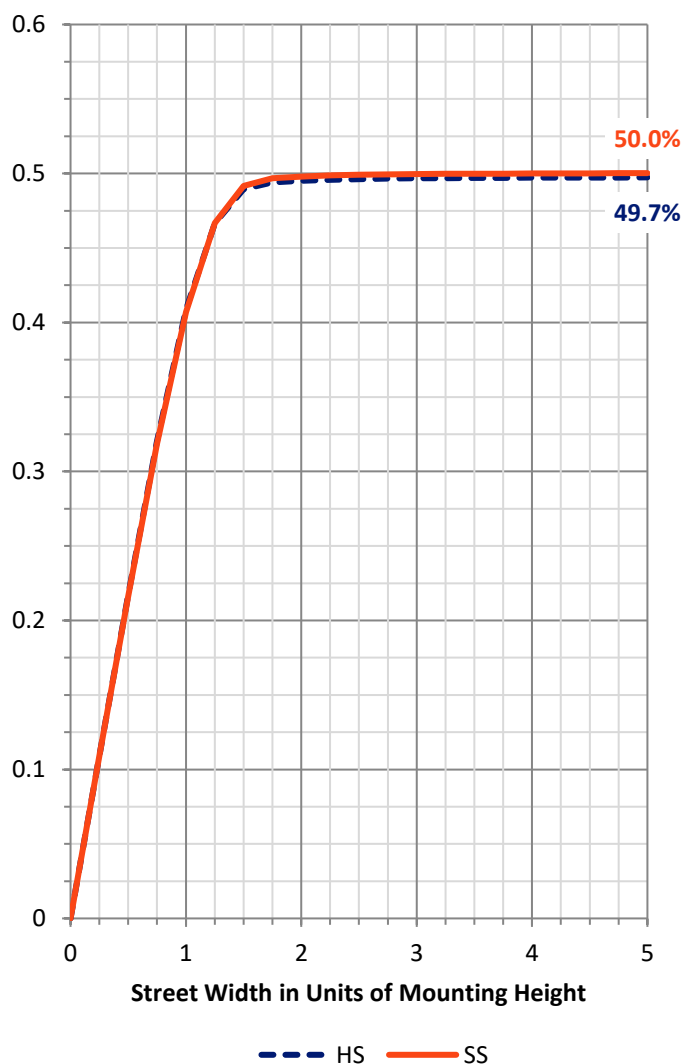
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6606.5	0.0	6606.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6606.5	0.0	6606.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13213.0	0.0	13213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.4
10°-20°	628.1	4.8
20°-30°	1282.8	9.7
30°-40°	2446.4	18.5
40°-50°	4122.5	31.2
50°-60°	3931.5	29.8
60°-70°	548.8	4.2
70°-80°	52.5	0.4
80°-90°	18.1	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°	13213.0	100.0
0°-180°	13213.0	100.0

Coefficient of Utilization



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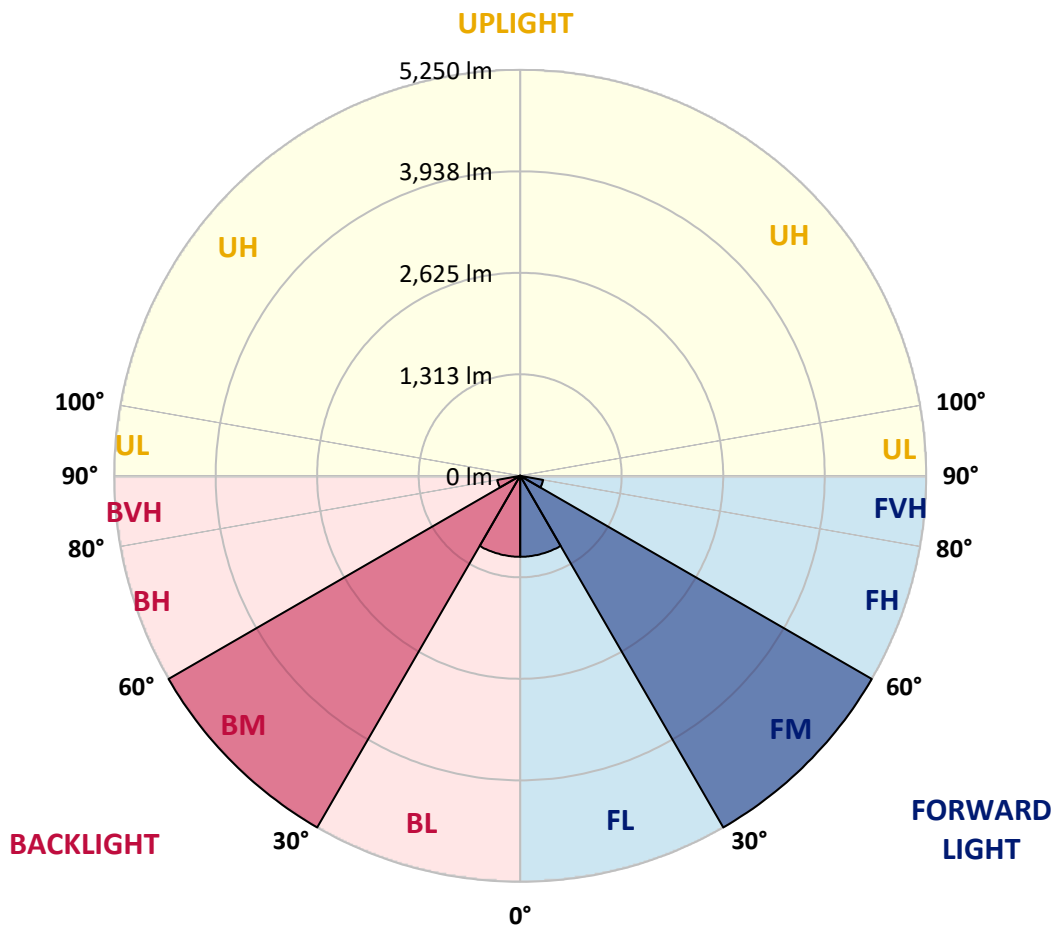
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.6	7.9			
FM (30°-60°)	5250.2	39.7			
FH (60°-80°)	300.7	2.3			G0/660
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	1046.6	7.9	B3/2500		
BM (30°-60°)	5250.2	39.7	B4/8500		
BH (60°-80°)	300.7	2.3	B1/500		G0/660
BVH (80°-90°)	9.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1825.2	1825.2	1822.9	1840.7	1831.8	1851.8	1849.6	1856.3	1863.0	1860.7	1878.5
5°	1809.6	1807.4	1807.4	1827.4	1847.4	1869.6	1889.6	1903.0	1925.2	1925.2	1947.4
7.5°	1825.2	1814.1	1829.6	1838.5	1876.3	1914.1	1947.4	1974.1	2025.2	2043.0	2036.4
10°	1829.6	1843.0	1854.1	1880.7	1927.4	1985.2	2014.1	2080.8	2138.6	2178.6	2187.5
12.5°	1858.5	1878.5	1909.6	1974.1	2016.4	2091.9	2132.0	2196.4	2276.5	2320.9	2352.0
15°	1914.1	1920.8	1960.8	2043.0	2134.2	2203.1	2265.3	2312.0	2389.8	2441.0	2443.2
17.5°	1985.2	2014.1	2069.7	2147.5	2243.1	2345.4	2394.3	2445.4	2474.3	2543.2	2558.8
20°	2127.5	2132.0	2185.3	2287.6	2407.6	2501.0	2536.6	2563.2	2552.1	2623.3	2636.6
22.5°	2260.9	2265.3	2332.0	2469.9	2598.8	2678.8	2694.4	2678.8	2645.5	2696.6	2701.1
25°	2396.5	2436.5	2485.4	2623.3	2783.3	2890.0	2892.3	2850.0	2781.1	2790.0	2812.2
27.5°	2607.7	2636.6	2687.7	2814.4	2990.1	3110.1	3090.1	3039.0	2950.1	2956.7	2950.1
30°	2854.5	2881.1	2923.4	3085.7	3214.6	3345.8	3374.7	3325.8	3192.4	3163.5	3196.8
32.5°	3152.4	3190.2	3268.0	3416.9	3525.8	3605.9	3625.9	3608.1	3483.6	3472.5	3494.7
35°	3514.7	3565.9	3637.0	3768.2	3857.1	4001.6	4001.6	3941.6	3828.2	3841.5	3839.3
37.5°	3897.1	3972.7	4083.8	4217.2	4337.3	4415.1	4390.6	4339.5	4226.1	4197.2	4226.1
40°	4377.3	4415.1	4555.1	4728.5	4875.3	4964.2	4859.7	4748.5	4477.3	4519.6	4597.4
42.5°	4815.2	4875.3	4982.0	5173.2	5339.9	5413.3	5288.8	5068.7	4741.9	4708.5	4766.3
45°	5188.7	5253.2	5393.2	5666.7	5842.3	5906.8	5631.1	5275.4	4901.9	4817.5	4841.9
47.5°	5437.7	5471.1	5666.7	5926.8	6086.9	6233.6	5837.9	5417.7	4977.5	4817.5	4808.6
50°	5342.1	5399.9	5628.9	5924.6	6215.8	6320.3	5942.4	5526.6	5002.0	4797.5	4770.8
52.5°	4744.1	4844.1	5099.8	5497.7	5937.9	6311.4	6086.9	5491.1	4993.1	4817.5	4857.5
55°	3301.3	3303.5	3614.8	4201.7	4979.8	5860.1	5875.7	5531.1	5050.9	4942.0	4944.2
57.5°	1327.2	1393.9	1631.8	2220.9	2938.9	4023.8	4784.1	5130.9	5057.6	5030.9	5099.8
60°	335.7	337.9	411.3	626.9	1033.7	1725.1	2505.4	3390.2	3903.8	4079.4	4103.8
62.5°	171.2	173.4	191.2	222.3	282.3	462.4	822.5	1305.0	1856.3	2136.4	2209.8
65°	140.1	140.1	151.2	166.7	169.0	177.8	213.4	304.6	442.4	502.4	509.1
67.5°	106.7	106.7	115.6	124.5	128.9	126.7	122.3	126.7	153.4	146.7	142.3
70°	66.7	68.9	73.4	82.3	86.7	88.9	91.1	95.6	108.9	113.4	108.9
72.5°	40.0	40.0	42.2	48.9	55.6	60.0	66.7	71.1	77.8	88.9	86.7
75°	17.8	17.8	22.2	28.9	35.6	42.2	48.9	55.6	60.0	66.7	68.9
77.5°	4.4	6.7	11.1	20.0	26.7	35.6	44.5	51.1	55.6	55.6	53.4
80°	2.2	2.2	8.9	15.6	28.9	37.8	48.9	53.4	60.0	55.6	48.9
82.5°	2.2	2.2	8.9	15.6	26.7	37.8	51.1	57.8	62.2	55.6	46.7
85°	0.0	2.2	6.7	13.3	22.2	26.7	22.2	15.6	8.9	8.9	6.7
87.5°	0.0	0.0	2.2	2.2	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)