

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: P529937

Luminaire Tested: **GALN-SA5A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10104 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

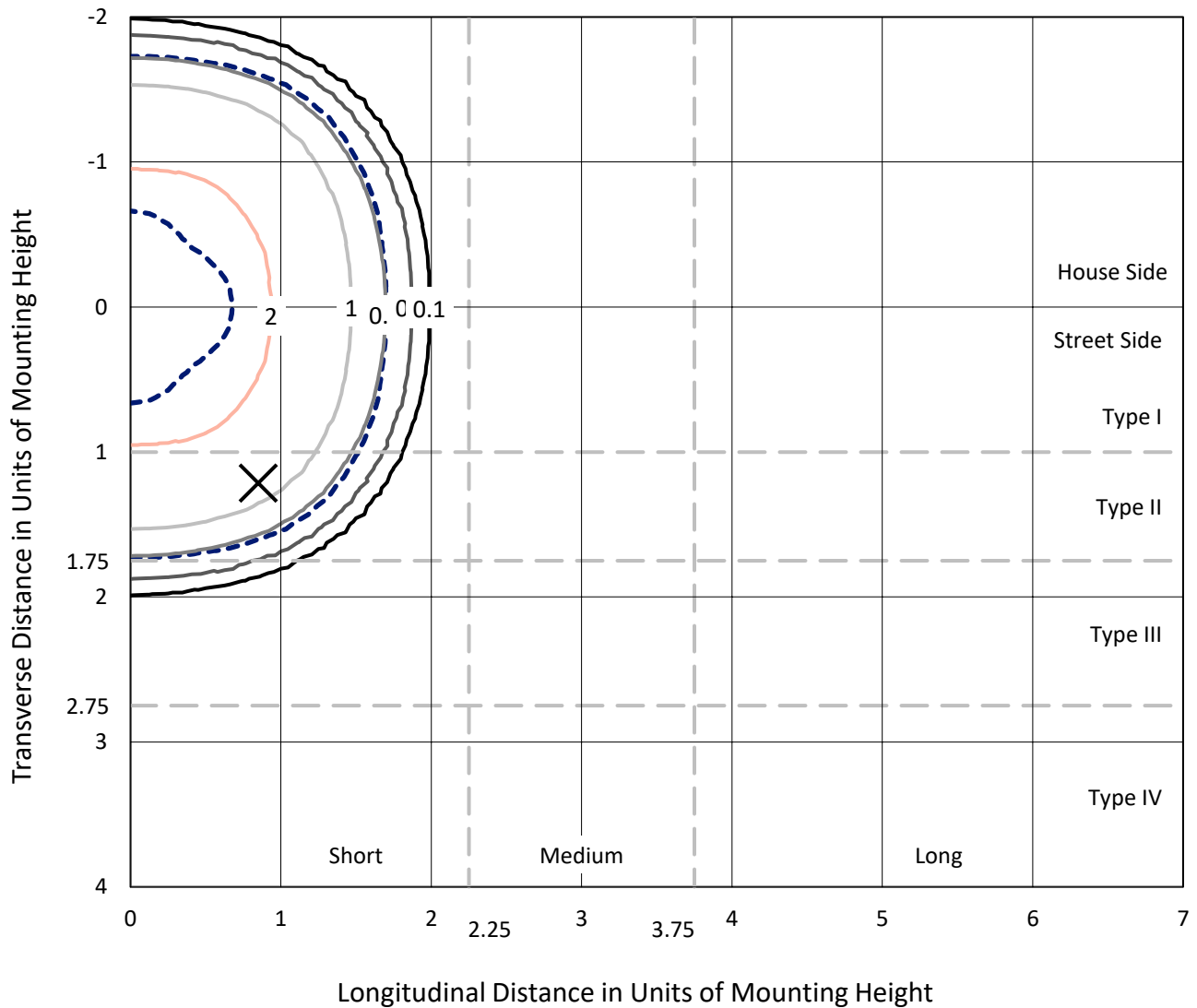
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

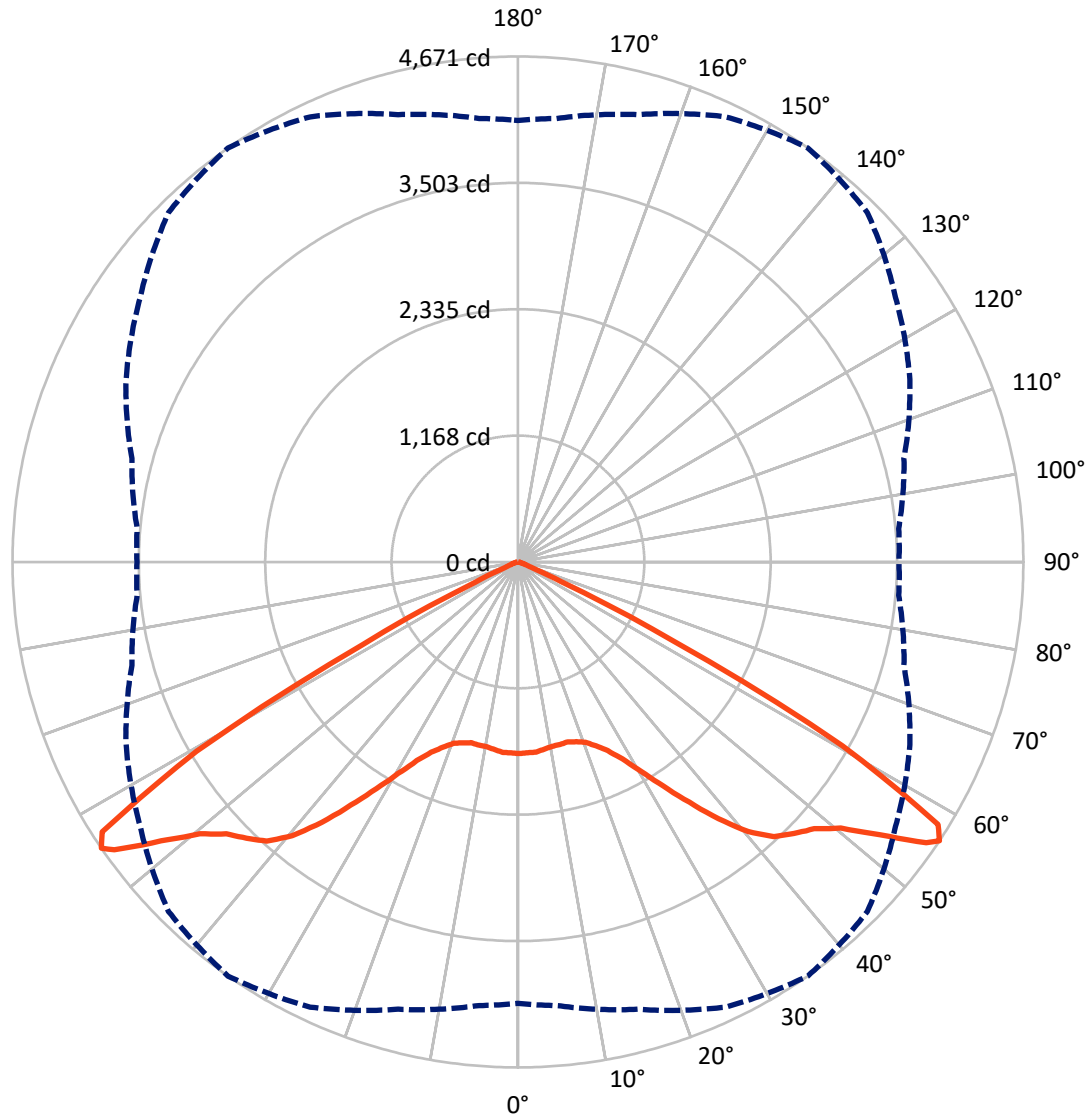
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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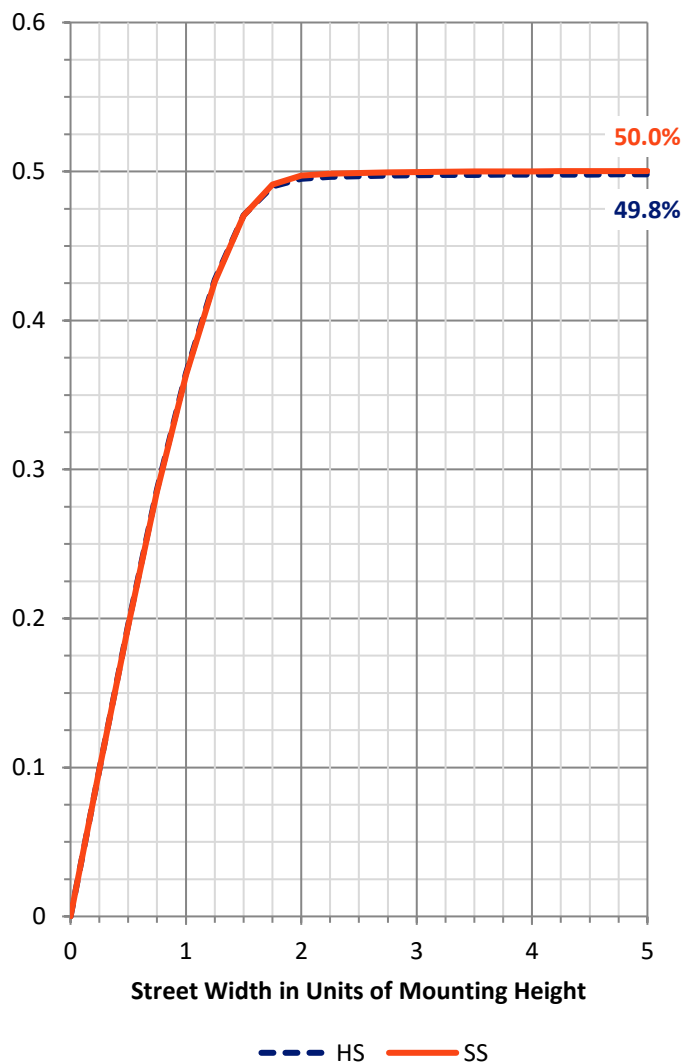
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5052.0	0.0	5052.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5052.0	0.0	5052.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10104.0	0.0	10104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.6
10°-20°	485.8	4.8
20°-30°	879.7	8.7
30°-40°	1631.3	16.1
40°-50°	2677.6	26.5
50°-60°	3449.6	34.1
60°-70°	760.3	7.5
70°-80°	44.1	0.4
80°-90°	9.3	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°	10104.0	100.0
0°-180°	10104.0	100.0

Coefficient of Utilization

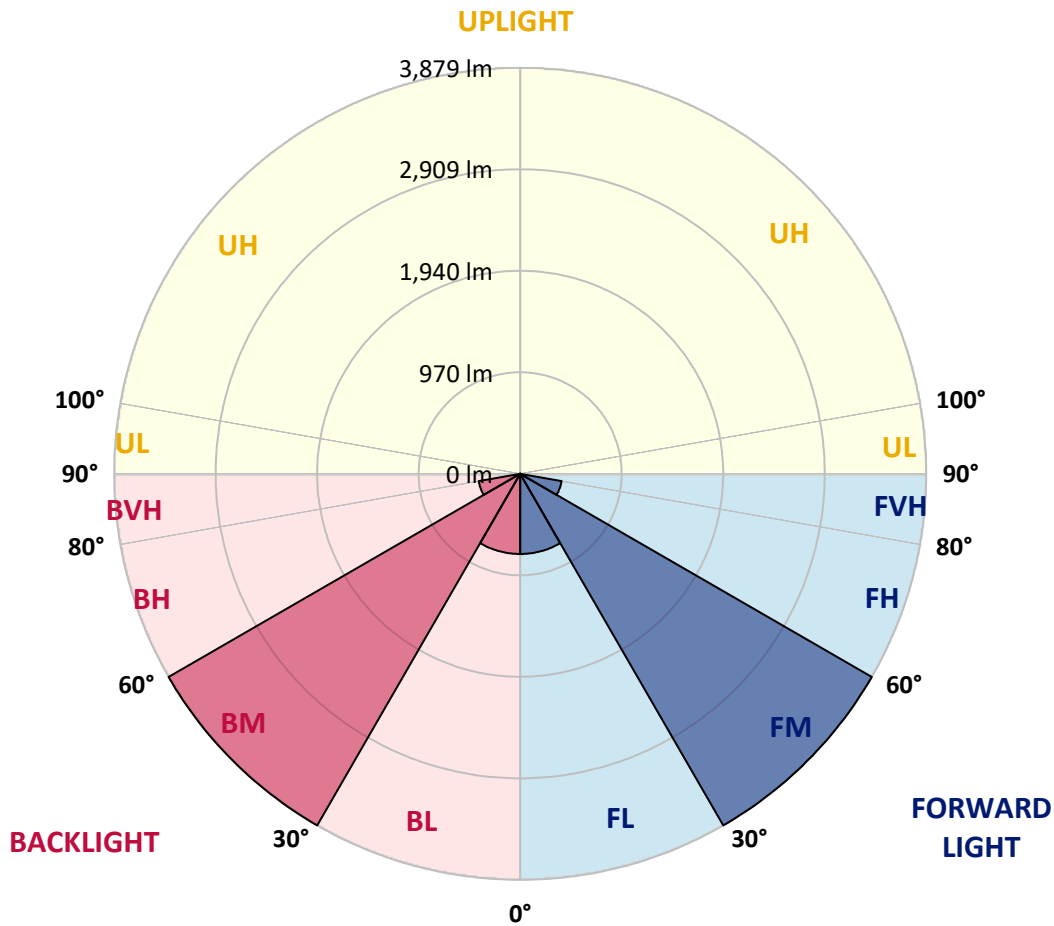


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.9	7.6			
FM (30°-60°)	3879.2	38.4			
FH (60°-80°)	402.2	4.0			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	765.9	7.6	B2/1000		
BM (30°-60°)	3879.2	38.4	B3/5000		
BH (60°-80°)	402.2	4.0	B1/500		G0/660
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4
2.5°	1774.1	1774.1	1775.9	1777.8	1764.9	1759.5	1761.3	1757.6	1755.8	1761.3	1761.3
5°	1768.6	1768.6	1763.1	1764.9	1764.9	1748.5	1748.5	1752.1	1752.1	1741.1	1737.5
7.5°	1754.0	1750.3	1743.0	1752.1	1746.6	1746.6	1733.8	1724.7	1721.0	1728.3	1721.0
10°	1722.8	1724.7	1732.0	1735.7	1732.0	1743.0	1721.0	1708.2	1695.4	1689.9	1689.9
12.5°	1708.2	1719.2	1708.2	1717.3	1730.2	1721.0	1708.2	1699.0	1680.7	1673.4	1673.4
15°	1706.4	1713.7	1717.3	1730.2	1724.7	1728.3	1702.7	1691.7	1664.2	1651.4	1645.9
17.5°	1704.5	1713.7	1719.2	1743.0	1746.6	1748.5	1728.3	1695.4	1671.6	1658.8	1645.9
20°	1724.7	1728.3	1739.3	1763.1	1777.8	1803.4	1766.8	1732.0	1680.7	1666.1	1660.6
22.5°	1750.3	1768.6	1779.6	1805.2	1843.7	1865.6	1818.0	1774.1	1721.0	1702.7	1680.7
25°	1832.7	1829.0	1847.3	1900.4	1931.6	1948.0	1909.6	1845.5	1775.9	1754.0	1757.6
27.5°	1935.2	1938.9	1955.4	2013.9	2059.7	2085.3	2039.6	1955.4	1887.6	1851.0	1847.3
30°	2068.9	2065.2	2083.5	2162.2	2244.6	2283.1	2202.5	2103.7	2037.7	1990.1	2001.1
32.5°	2209.8	2211.7	2262.9	2334.3	2468.0	2543.1	2413.1	2292.2	2193.4	2160.4	2143.9
35°	2418.6	2427.7	2468.0	2577.8	2726.1	2823.2	2680.4	2535.7	2422.2	2361.8	2369.1
37.5°	2676.7	2667.6	2735.3	2854.3	3009.9	3081.3	2960.5	2795.7	2680.4	2640.1	2665.7
40°	2951.3	2960.5	2995.3	3103.3	3277.2	3324.8	3145.4	3055.7	2955.0	2934.9	2966.0
42.5°	3226.0	3220.5	3246.1	3343.1	3469.5	3436.5	3330.3	3277.2	3205.8	3165.6	3207.7
45°	3427.4	3418.2	3465.8	3531.7	3577.5	3515.2	3467.6	3449.3	3412.7	3368.8	3407.2
47.5°	3623.3	3615.9	3661.7	3680.0	3683.7	3601.3	3610.4	3643.4	3551.9	3460.3	3504.3
50°	3789.9	3777.1	3833.8	3874.1	3864.9	3733.1	3766.1	3733.1	3590.3	3482.3	3465.8
52.5°	4068.2	4073.7	4134.1	4207.3	4185.3	4075.5	4027.9	3877.8	3694.7	3597.6	3540.9
55°	4243.9	4216.5	4320.8	4553.3	4579.0	4465.5	4254.9	4033.4	3758.7	3639.7	3625.1
56°	4079.1	4113.9	4278.7	4538.7	4670.5	4566.2	4260.4	3994.9	3692.8	3531.7	3520.7
57.5°	3659.9	3641.6	3864.9	4220.1	4579.0	4535.0	4110.3	3720.3	3368.8	3187.5	3165.6
60°	2277.6	2330.7	2526.6	2966.0	3445.7	3467.6	3046.5	2711.5	2301.4	2140.3	2178.7
62.5°	891.6	845.9	968.5	1296.2	1625.8	1699.0	1539.8	1279.8	1050.9	891.6	880.6
65°	206.9	201.4	227.0	313.1	437.6	507.1	481.5	346.0	254.5	241.7	223.4
67.5°	117.2	117.2	111.7	111.7	122.7	130.0	124.5	122.7	128.2	133.7	131.8
70°	82.4	80.6	76.9	78.7	75.1	75.1	80.6	89.7	97.0	97.0	98.9
72.5°	49.4	49.4	49.4	54.9	54.9	54.9	60.4	67.7	69.6	67.7	65.9
75°	22.0	22.0	25.6	31.1	34.8	36.6	42.1	45.8	49.4	45.8	42.1
77.5°	5.5	5.5	9.2	12.8	16.5	20.1	27.5	33.0	34.8	33.0	27.5
80°	1.8	1.8	3.7	9.2	16.5	20.1	27.5	29.3	31.1	27.5	22.0
82.5°	1.8	1.8	3.7	9.2	12.8	16.5	22.0	25.6	27.5	23.8	22.0
85°	0.0	1.8	3.7	7.3	11.0	14.6	14.6	11.0	9.2	5.5	7.3
87.5°	0.0	0.0	1.8	1.8	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)