

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: P454281

Luminaire Tested: **GALN-SA5B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21924 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

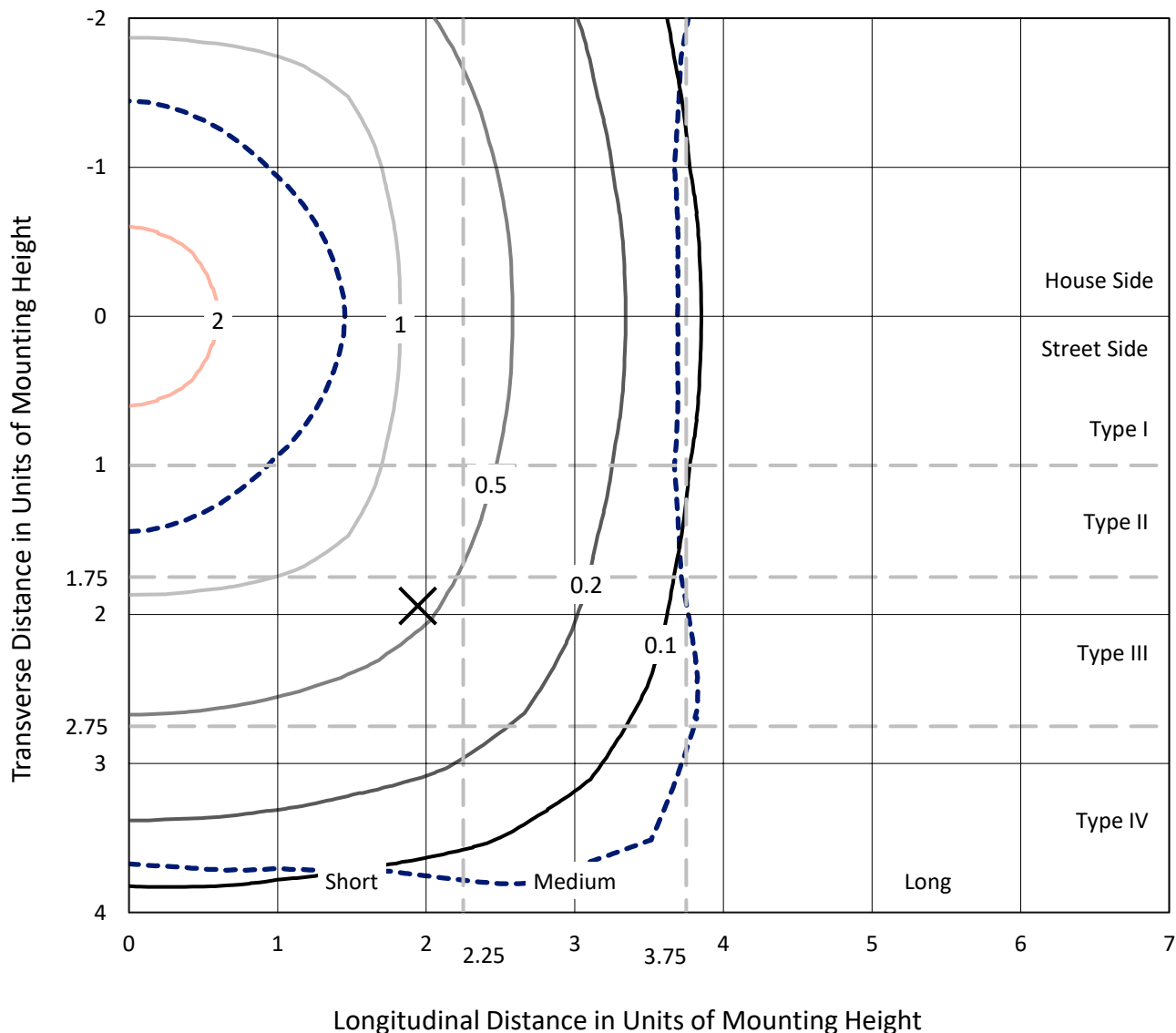
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

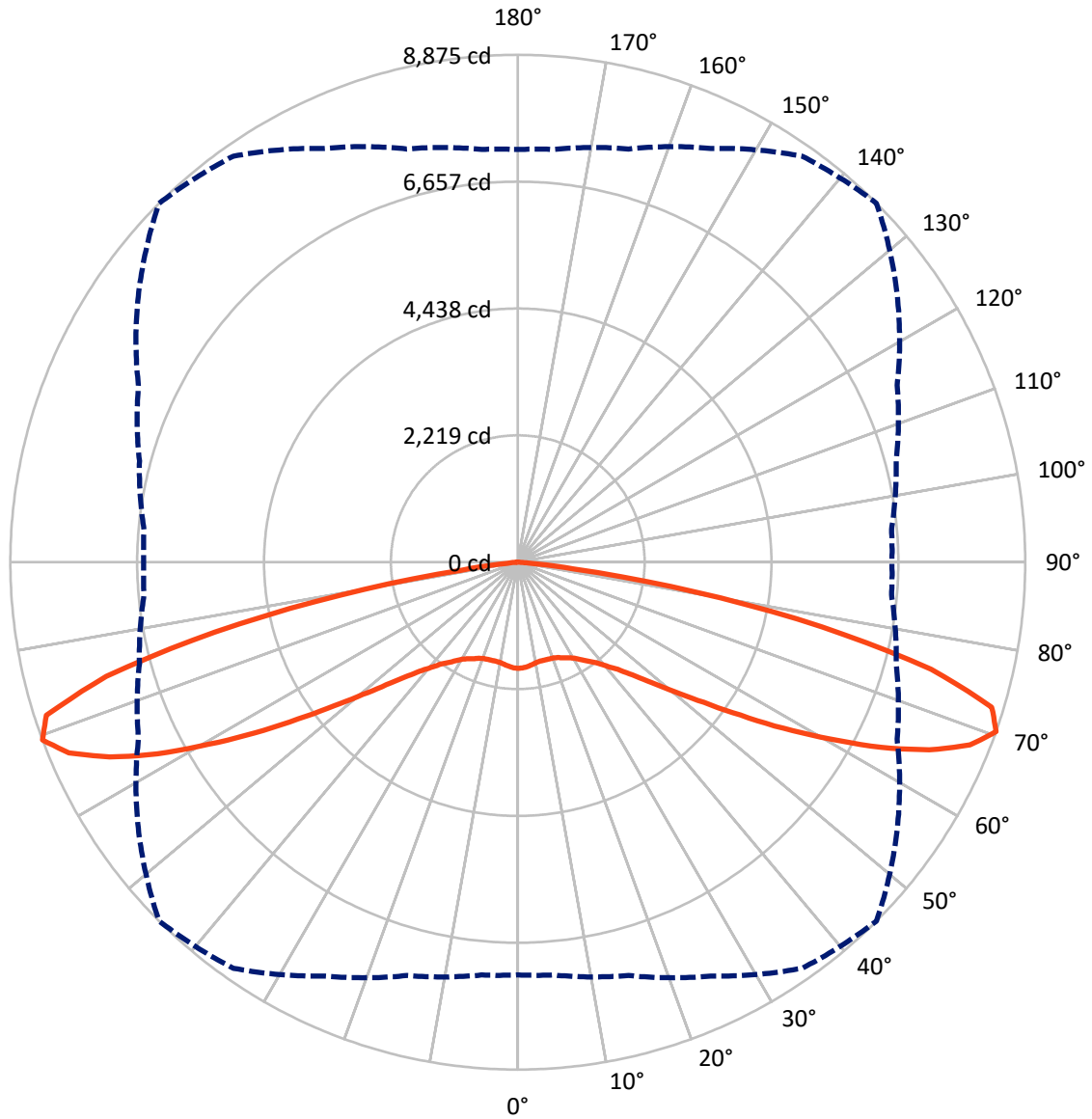
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10962.0	0.0	10962.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10962.0	0.0	10962.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21924.0	0.0	21924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	0.8
10°-20°	508.2	2.3
20°-30°	865.8	3.9
30°-40°	1342.0	6.1
40°-50°	2258.8	10.3
50°-60°	4109.7	18.7
60°-70°	6957.7	31.7
70°-80°	5385.5	24.6
80°-90°	322.7	1.5
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°	21924.0	100.0
0°-180°	21924.0	100.0

Coefficient of Utilization



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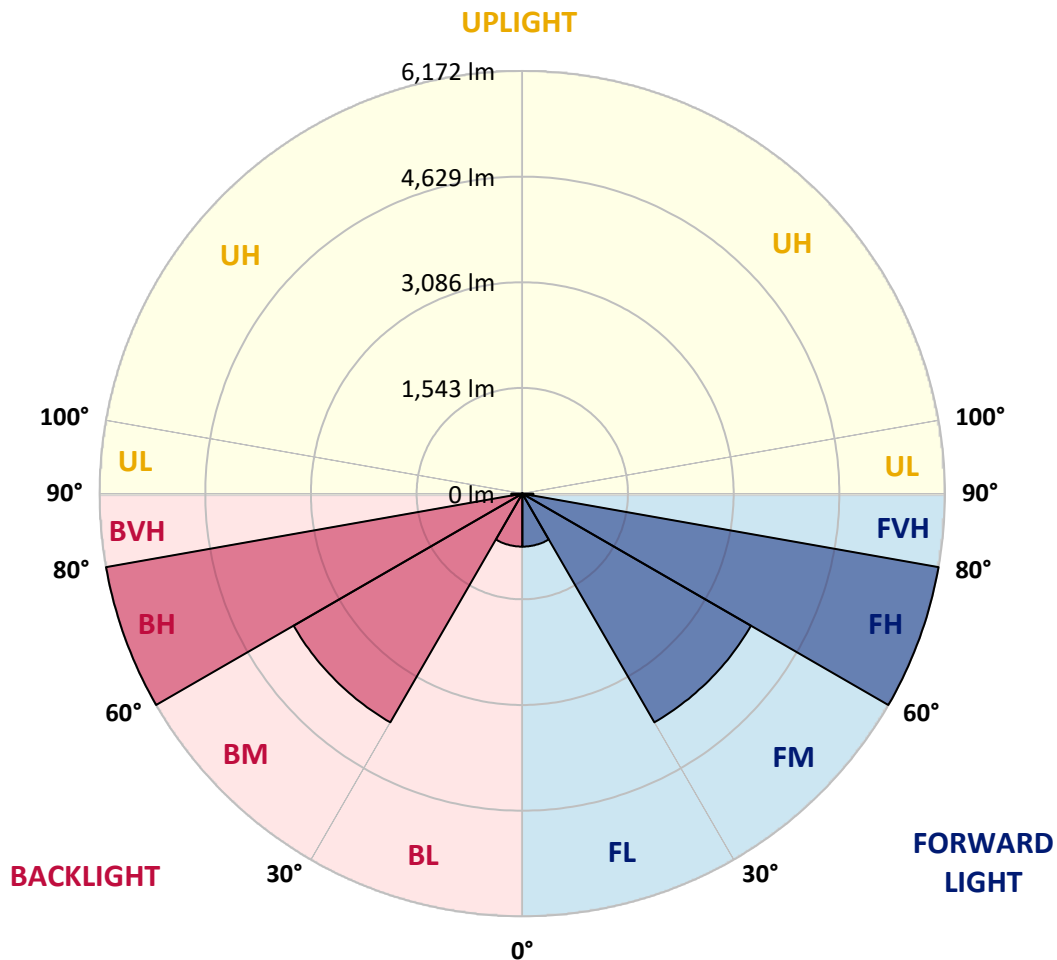
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.8	3.5			
FM (30°-60°)	3855.3	17.6			
FH (60°-80°)	6171.6	28.1			G3/7500
FVH (80°-90°)	161.4	0.7			G2/225
BL (0°-30°)	773.8	3.5	B2/1000		
BM (30°-60°)	3855.3	17.6	B3/5000		
BH (60°-80°)	6171.6	28.1	B5		G3/7500
BVH (80°-90°)	161.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1
2.5°	1851.5	1852.7	1852.7	1850.3	1849.2	1849.2	1848.0	1848.0	1851.5	1852.7	1853.8
5°	1835.3	1835.3	1835.3	1834.1	1831.8	1831.8	1829.5	1829.5	1830.7	1834.1	1831.8
7.5°	1813.3	1815.6	1815.6	1811.0	1807.5	1807.5	1806.3	1807.5	1808.7	1812.1	1811.0
10°	1806.3	1807.5	1801.7	1793.6	1787.8	1787.8	1785.5	1787.8	1793.6	1795.9	1797.1
12.5°	1811.0	1811.0	1800.6	1789.0	1778.6	1773.9	1772.8	1780.9	1791.3	1798.2	1800.6
15°	1816.8	1814.5	1801.7	1786.7	1776.2	1775.1	1773.9	1779.7	1794.8	1808.7	1809.8
17.5°	1820.2	1819.1	1802.9	1784.3	1778.6	1778.6	1777.4	1782.0	1798.2	1815.6	1816.8
20°	1831.8	1828.3	1809.8	1790.1	1785.5	1787.8	1784.3	1790.1	1807.5	1828.3	1833.0
22.5°	1855.0	1851.5	1833.0	1813.3	1811.0	1811.0	1809.8	1815.6	1834.1	1856.1	1859.6
25°	1882.8	1879.3	1861.9	1848.0	1850.3	1855.0	1852.7	1853.8	1868.9	1887.4	1893.2
27.5°	1919.8	1914.0	1899.0	1887.4	1894.3	1894.3	1894.3	1893.2	1902.5	1919.8	1925.6
30°	1965.0	1962.7	1946.5	1945.3	1951.1	1945.3	1945.3	1946.5	1947.6	1963.8	1969.6
32.5°	2024.0	2019.4	2011.3	2009.0	2025.2	2029.8	2013.6	1998.6	2006.7	2022.9	2026.3
35°	2121.3	2114.3	2102.8	2090.0	2102.8	2124.8	2090.0	2078.5	2099.3	2121.3	2123.6
37.5°	2253.3	2249.8	2231.3	2208.1	2207.0	2230.1	2194.2	2193.1	2232.5	2259.1	2262.6
40°	2418.9	2422.4	2399.2	2377.2	2365.6	2384.1	2356.4	2366.8	2405.0	2435.1	2432.8
42.5°	2651.6	2638.9	2603.0	2582.1	2569.4	2562.5	2555.5	2571.7	2614.6	2647.0	2672.5
45°	2923.7	2919.1	2873.9	2848.5	2820.7	2810.3	2807.9	2836.9	2889.0	2928.4	2931.8
47.5°	3231.7	3221.3	3192.4	3165.7	3155.3	3142.6	3131.0	3153.0	3205.1	3232.9	3241.0
50°	3549.0	3551.3	3551.3	3546.7	3557.1	3559.4	3528.2	3536.3	3565.2	3562.9	3560.6
52.5°	3911.4	3924.2	3984.4	3990.2	4040.0	4073.5	4016.8	3983.2	3972.8	3910.3	3914.9
55°	4337.5	4349.1	4439.4	4529.8	4664.1	4720.8	4601.5	4497.3	4423.2	4328.3	4332.9
57.5°	4869.0	4874.8	4960.5	5134.2	5347.2	5480.4	5270.8	5064.7	4914.2	4823.9	4788.0
60°	5441.0	5446.8	5571.9	5783.8	6114.9	6277.0	6017.7	5680.7	5490.8	5353.0	5362.3
62.5°	6127.7	6150.8	6263.2	6554.9	6956.7	7138.5	6794.6	6344.2	6087.2	5915.8	5922.7
65°	6863.0	6902.3	7025.1	7345.8	7716.3	7912.0	7490.5	6970.6	6651.1	6441.5	6463.5
67.5°	7340.0	7374.8	7551.9	7906.2	8368.2	8530.3	7986.1	7380.5	6981.1	6731.0	6684.6
70°	7218.4	7247.4	7483.6	7986.1	8670.5	8875.4	8104.2	7320.3	6850.2	6561.9	6543.4
72.5°	6372.0	6311.8	6656.8	7378.2	8325.4	8669.3	7732.5	6685.8	6094.1	5797.7	5762.9
75°	4222.9	4353.8	4863.2	5713.1	7043.6	7469.7	6600.1	5368.1	4623.5	4376.9	4338.7
77.5°	1411.5	1512.2	1965.0	3238.7	4801.9	5442.2	4808.8	3510.8	2483.7	2000.9	2010.1
80°	374.0	369.4	478.2	890.4	2075.0	3151.8	2415.4	1189.2	650.7	471.3	447.0
82.5°	134.3	150.5	193.4	246.6	550.0	979.6	691.3	333.5	244.3	180.6	174.8
85°	59.1	57.9	83.4	98.4	137.8	183.0	162.1	141.3	123.9	82.2	76.4
87.5°	12.7	12.7	19.7	15.1	24.3	24.3	30.1	35.9	37.1	24.3	19.7
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)