

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: P452660

Luminaire Tested: **GALN-SA3C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452660
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-SA3C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15918 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

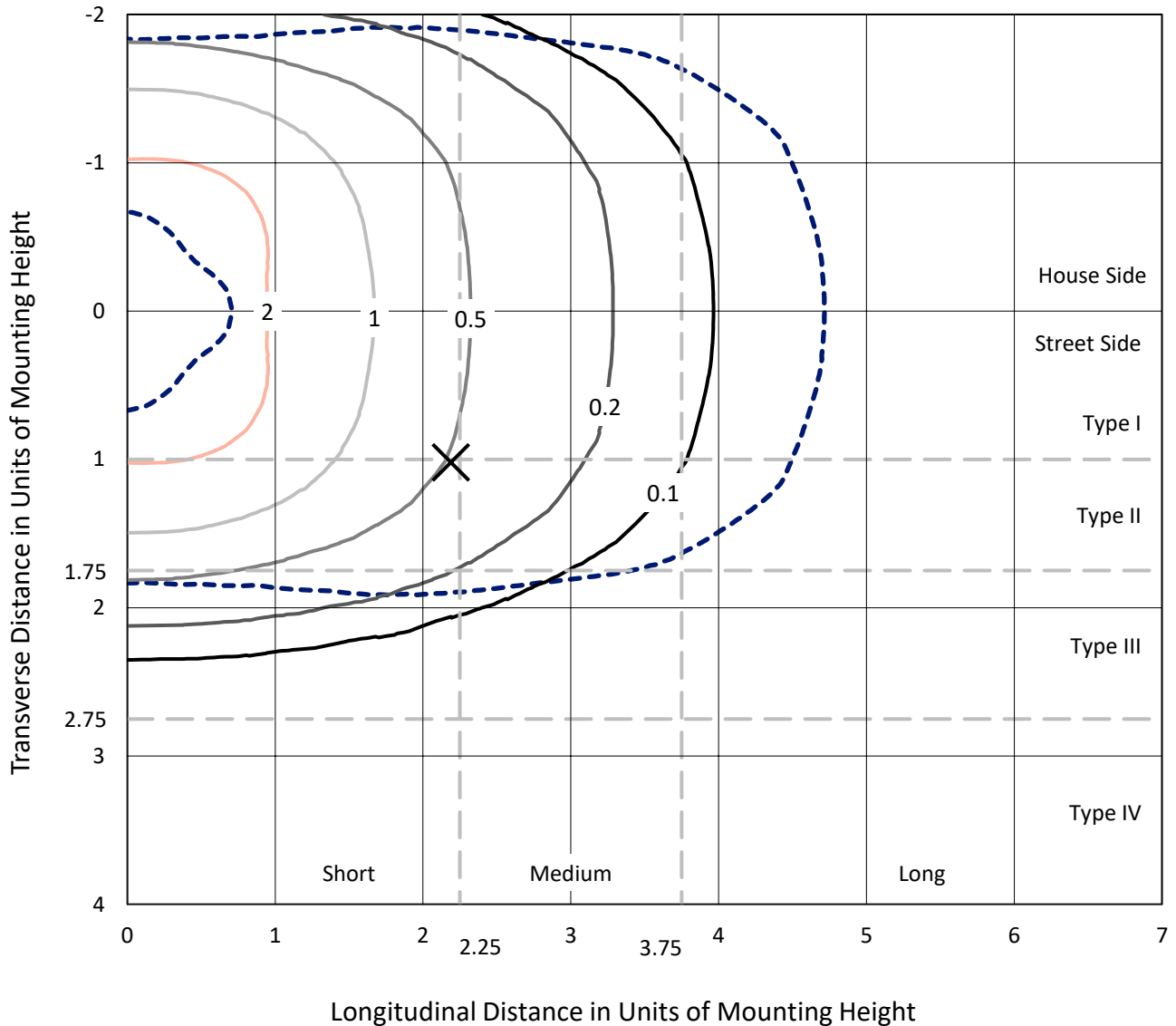
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

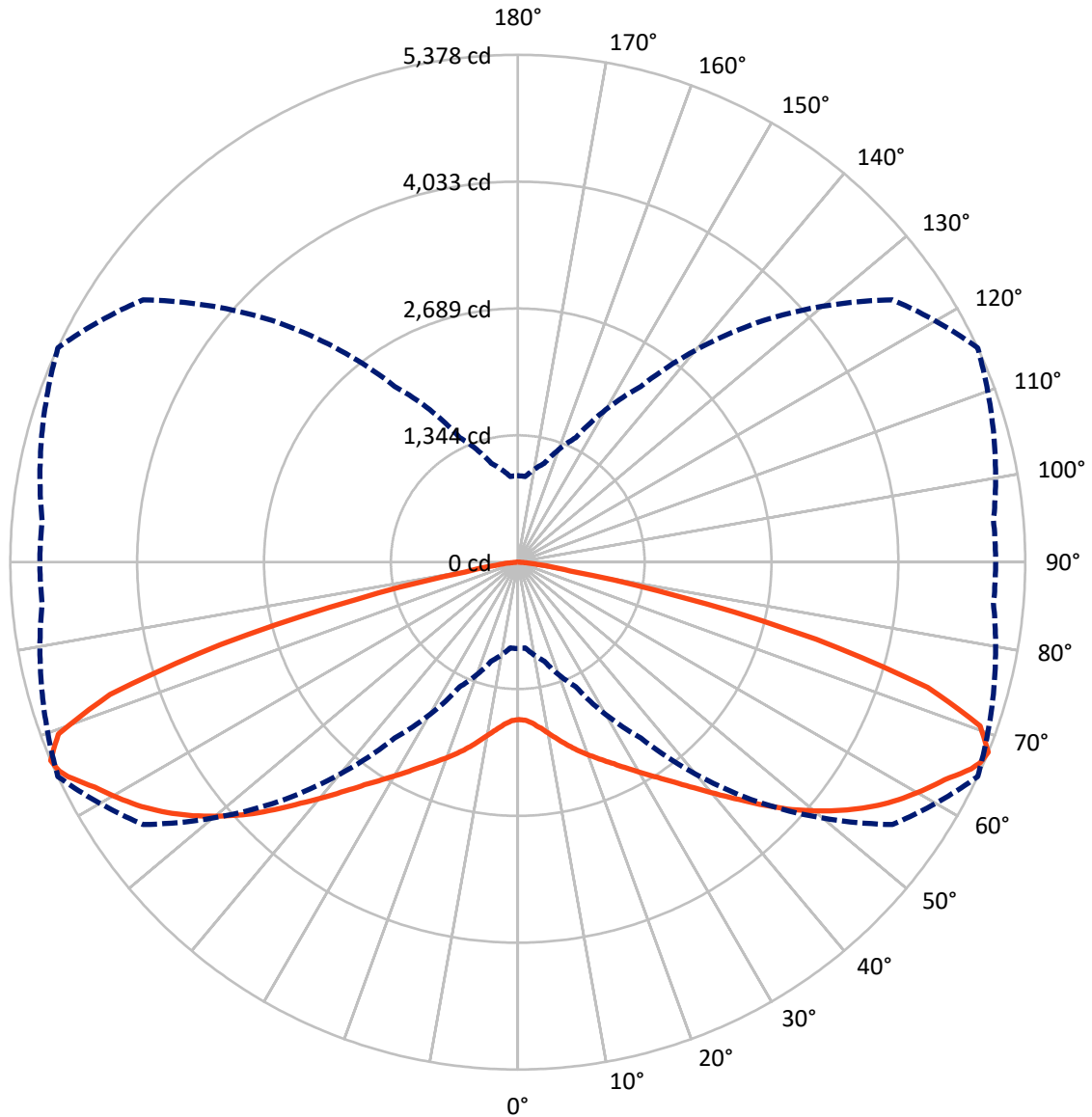
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type 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
House Side	Lumens	7959.0	0.0	7959.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7959.0	0.0	7959.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15918.0	0.0	15918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.0
10°-20°	550.4	3.5
20°-30°	1076.5	6.8
30°-40°	1831.1	11.5
40°-50°	2898.0	18.2
50°-60°	3842.7	24.1
60°-70°	3624.9	22.8
70°-80°	1792.0	11.3
80°-90°	138.1	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°	15918.0	100.0
0°-180°	15918.0	100.0



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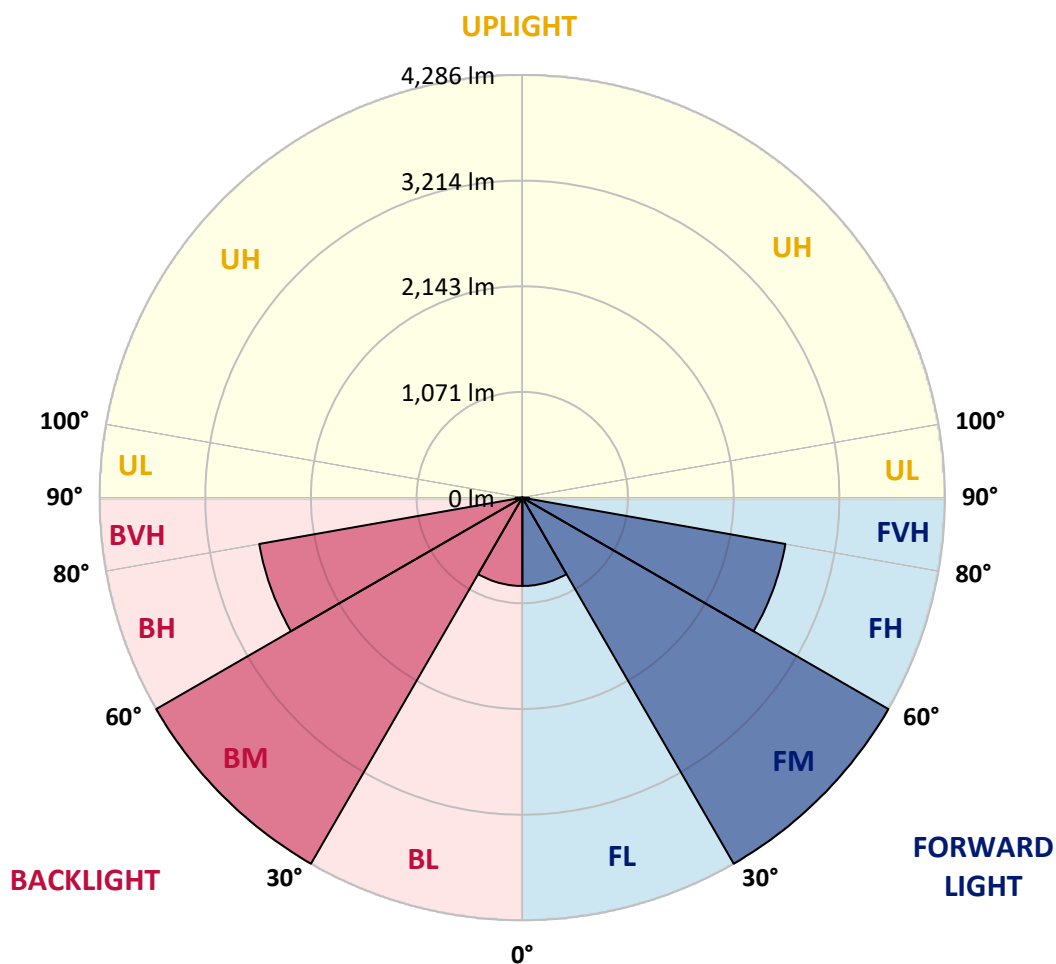
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.7	5.6			
FM	(30°-60°)	4285.9	26.9			
FH	(60°-80°)	2708.4	17.0			G2/5000
FVH	(80°-90°)	69.0	0.4			G1/100
BL	(0°-30°)	895.7	5.6	B2/1000		
BM	(30°-60°)	4285.9	26.9	B3/5000		
BH	(60°-80°)	2708.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	69.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1667.3	1667.3	1667.3	1667.3	1667.3	1667.3	1667.3	1667.3	1667.3	1667.3	1667.3
2.5°	1658.7	1660.4	1662.2	1664.7	1668.1	1673.2	1676.7	1679.2	1686.0	1686.9	1686.0
5°	1652.8	1654.5	1658.7	1666.4	1677.5	1692.9	1704.8	1719.3	1730.4	1738.1	1736.3
7.5°	1651.9	1655.3	1662.2	1678.4	1699.7	1726.1	1753.4	1778.1	1799.5	1816.5	1814.0
10°	1665.6	1669.8	1680.9	1704.8	1738.1	1776.4	1814.8	1851.5	1882.2	1904.4	1912.0
12.5°	1688.6	1692.0	1712.5	1748.3	1796.0	1843.8	1887.3	1932.5	1975.1	2012.7	2012.7
15°	1728.7	1734.6	1760.2	1812.3	1871.1	1926.5	1970.9	2018.6	2064.7	2107.3	2120.1
17.5°	1784.1	1792.6	1831.0	1897.5	1972.6	2023.8	2065.5	2104.8	2144.9	2185.8	2191.8
20°	1860.0	1868.5	1919.7	1999.9	2088.6	2150.0	2178.1	2187.5	2207.1	2246.3	2251.5
22.5°	1963.2	1971.7	2028.9	2119.3	2218.2	2284.7	2296.7	2274.5	2269.4	2300.1	2303.5
25°	2080.0	2087.7	2153.4	2250.6	2352.9	2425.4	2422.0	2367.4	2336.7	2355.5	2360.6
27.5°	2211.4	2222.5	2289.0	2389.6	2500.5	2564.4	2554.2	2474.9	2409.2	2405.8	2407.5
30°	2379.4	2391.3	2454.4	2550.8	2660.0	2718.8	2697.5	2590.9	2489.4	2455.3	2455.3
32.5°	2556.8	2586.6	2650.6	2751.2	2836.5	2879.1	2846.7	2718.8	2584.1	2536.3	2533.7
35°	2787.9	2804.1	2867.2	2965.3	3029.2	3062.5	3000.2	2862.9	2707.7	2651.4	2643.8
37.5°	3013.9	3027.5	3100.9	3194.7	3272.3	3270.6	3186.1	3034.3	2861.2	2798.1	2793.0
40°	3245.0	3259.5	3343.1	3429.2	3506.8	3500.0	3397.6	3227.9	3043.7	2972.9	2986.6
42.5°	3445.4	3461.6	3556.3	3679.1	3749.0	3747.3	3628.8	3437.7	3245.8	3182.7	3194.7
45°	3627.9	3642.4	3752.4	3893.1	3995.5	4008.3	3878.6	3676.5	3479.5	3398.5	3401.9
47.5°	3756.7	3784.0	3899.1	4060.3	4199.3	4244.5	4117.4	3919.6	3692.7	3608.3	3613.4
50°	3854.8	3871.8	3997.2	4180.5	4356.2	4450.0	4347.7	4144.7	3905.9	3816.4	3828.3
52.5°	3866.7	3887.2	4023.6	4235.1	4460.3	4602.7	4552.4	4364.8	4123.4	4031.3	4056.9
55°	3769.5	3781.4	3944.3	4201.0	4501.2	4716.1	4728.9	4569.4	4330.6	4260.7	4277.8
57.5°	3492.3	3523.0	3729.4	4041.5	4444.9	4776.7	4861.1	4755.3	4540.4	4471.4	4498.6
60°	3037.8	3068.5	3275.7	3671.4	4232.6	4748.5	4970.3	4919.9	4730.6	4675.2	4689.7
62.5°	2380.2	2377.7	2634.4	3119.6	3810.4	4610.4	5051.3	5078.6	4918.2	4848.3	4870.5
65°	1542.8	1550.4	1798.6	2321.4	3173.4	4259.0	5069.2	5280.7	5102.4	4996.7	5012.9
66°	1240.9	1263.9	1474.5	1956.4	2848.4	4028.7	5015.5	5340.4	5158.7	5030.8	5038.5
67.5°	915.9	911.7	1084.8	1456.6	2274.5	3591.2	4847.4	5377.9	5222.7	5061.5	5064.9
70°	522.8	521.9	583.3	799.9	1337.2	2528.6	4085.9	5198.0	5352.3	5172.4	5163.0
72.5°	382.1	379.5	388.0	441.8	652.4	1276.7	2818.6	4543.0	5285.8	5154.5	5128.0
75°	320.7	319.0	317.3	324.1	365.9	578.2	1495.9	3268.0	4586.5	4838.1	4810.8
77.5°	261.8	261.8	262.7	261.0	262.7	304.5	620.0	1751.7	2793.0	3117.9	3193.8
80°	204.7	203.8	218.3	212.4	198.7	195.3	274.6	563.7	927.0	921.9	760.7
82.5°	150.9	140.7	166.3	162.0	146.7	124.5	160.3	240.5	309.6	201.3	149.2
85°	95.5	94.7	117.7	107.5	89.5	58.8	76.8	103.2	127.9	77.6	63.1
87.5°	17.1	16.2	37.5	27.3	27.3	17.1	21.3	28.1	41.8	29.0	21.3
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)