

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: P452428

Luminaire Tested: **GALN-SA3B-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452428
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-SA3B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12883 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

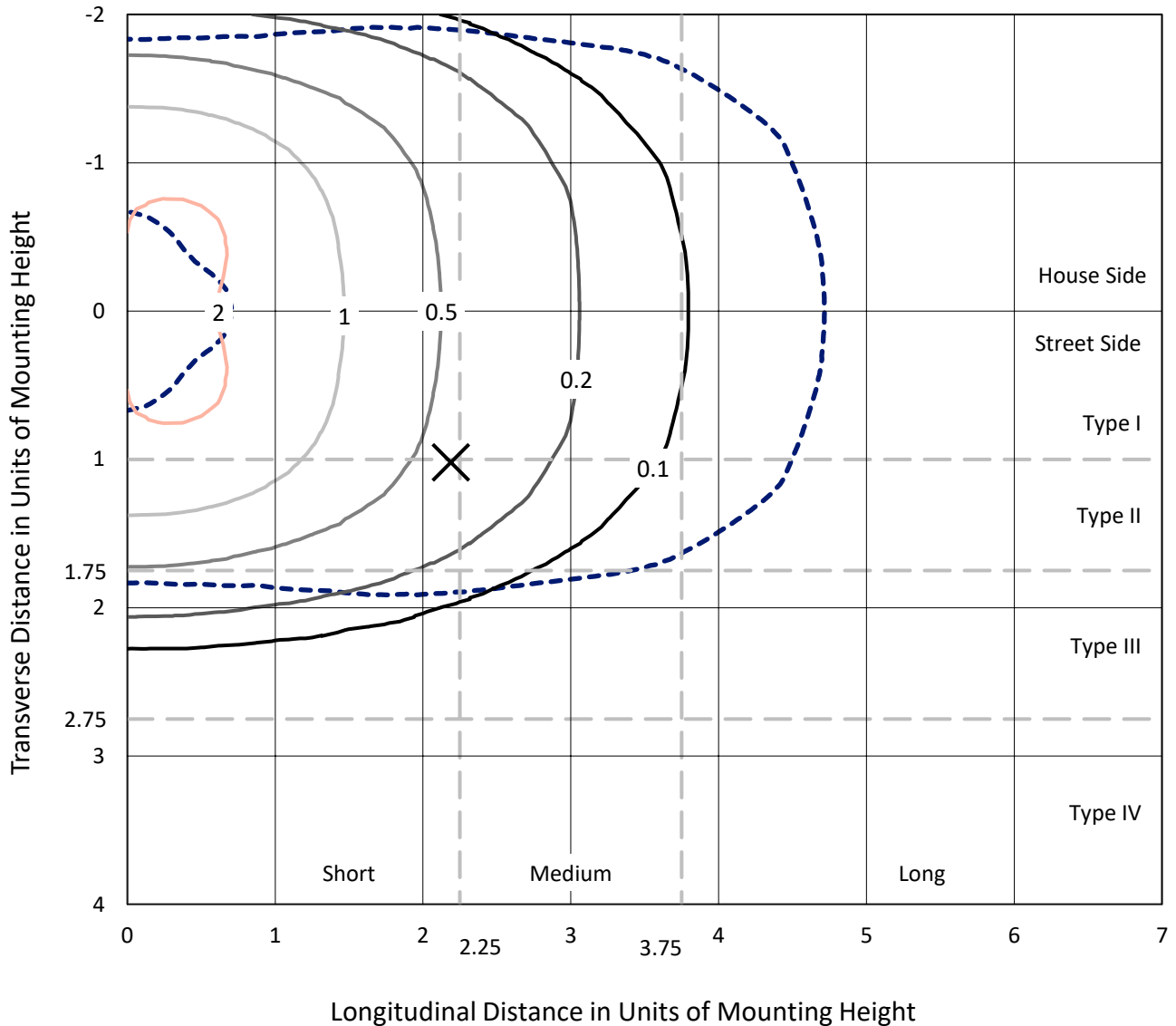
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452428
 CATALOG NUMBER: GALN-SA3B-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

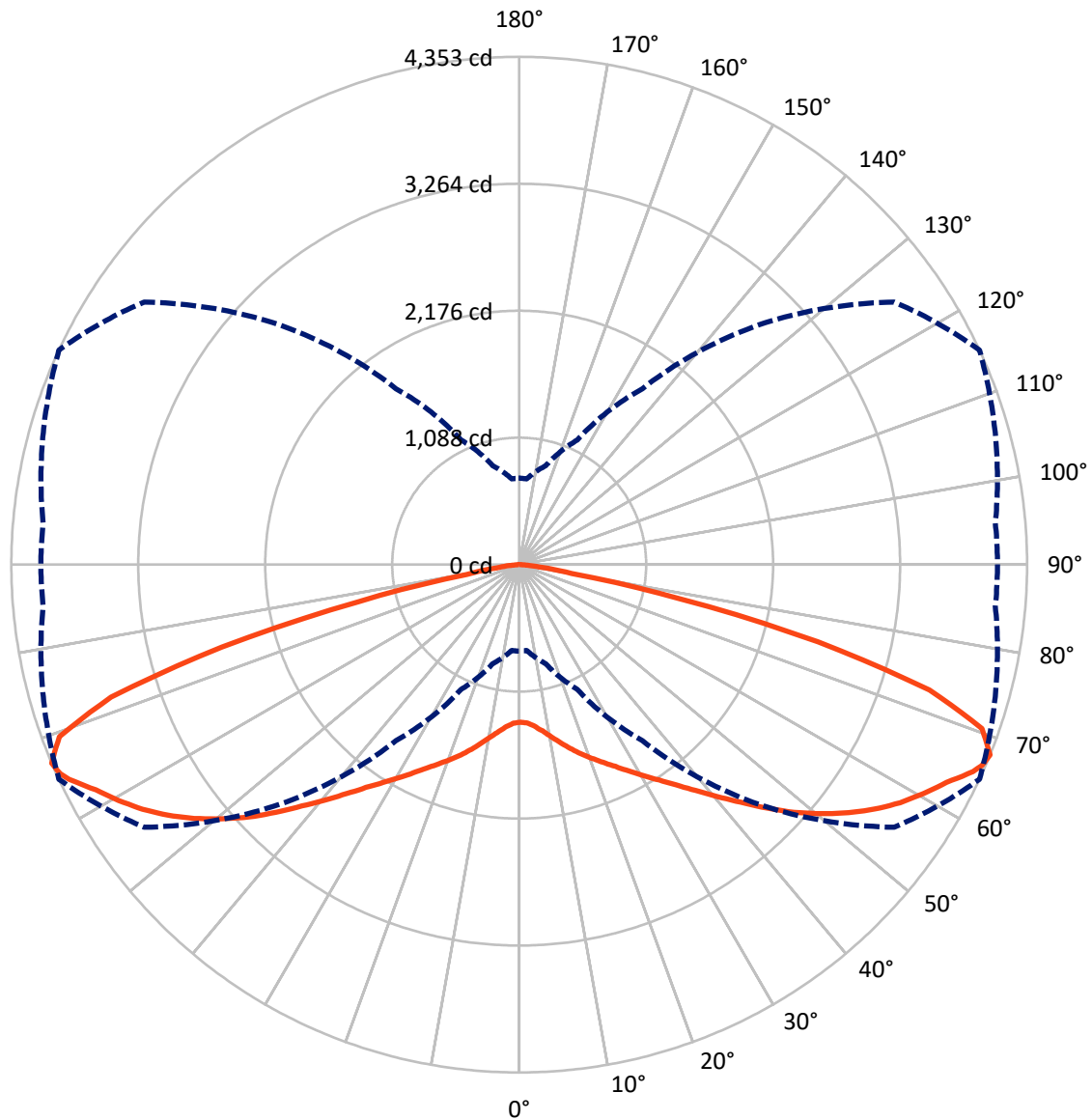
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

REPORT NUMBER: P452428
CATALOG NUMBER: GALN-SA3B-827-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P452428

CATALOG NUMBER: GALN-SA3B-827-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6441.5	0.0	6441.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6441.5	0.0	6441.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12883.0	0.0	12883.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.0
10°-20°	445.4	3.5
20°-30°	871.3	6.8
30°-40°	1481.9	11.5
40°-50°	2345.5	18.2
50°-60°	3110.0	24.1
60°-70°	2933.7	22.8
70°-80°	1450.3	11.3
80°-90°	111.8	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°	12883.0	100.0
0°-180°	12883.0	100.0



REPORT NUMBER: P452428

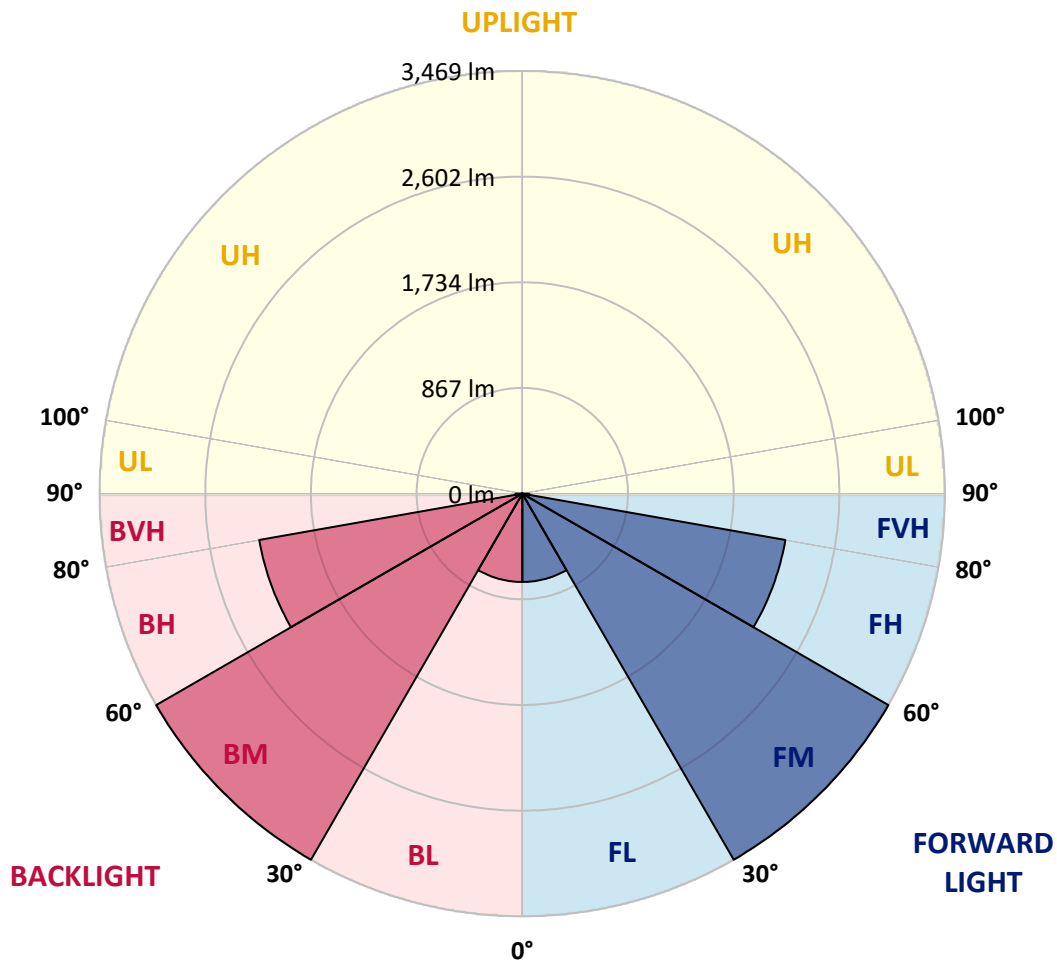
CATALOG NUMBER: GALN-SA3B-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.9	5.6			
FM (30°-60°)	3468.7	26.9			
FH (60°-80°)	2192.0	17.0			G2/5000
FVH (80°-90°)	55.9	0.4			G1/100
BL (0°-30°)	724.9	5.6	B2/1000		
BM (30°-60°)	3468.7	26.9	B3/5000		
BH (60°-80°)	2192.0	17.0	B3/2500		G3/2500
BVH (80°-90°)	55.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P452428
 CATALOG NUMBER: GALN-SA3B-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4
2.5°	1342.5	1343.9	1345.2	1347.3	1350.1	1354.2	1357.0	1359.0	1364.6	1365.3	1364.6
5°	1337.6	1339.0	1342.5	1348.7	1357.7	1370.1	1379.8	1391.5	1400.5	1406.7	1405.3
7.5°	1337.0	1339.7	1345.2	1358.4	1375.6	1397.0	1419.1	1439.1	1456.4	1470.2	1468.1
10°	1348.0	1351.5	1360.4	1379.8	1406.7	1437.7	1468.8	1498.5	1523.3	1541.3	1547.5
12.5°	1366.6	1369.4	1386.0	1415.0	1453.6	1492.3	1527.5	1564.0	1598.6	1628.9	1628.9
15°	1399.1	1403.9	1424.6	1466.7	1514.3	1559.2	1595.1	1633.8	1671.0	1705.5	1715.9
17.5°	1443.9	1450.8	1481.9	1535.7	1596.5	1637.9	1671.7	1703.5	1735.9	1769.0	1773.9
20°	1505.4	1512.3	1553.7	1618.6	1690.3	1740.0	1762.8	1770.4	1786.3	1818.0	1822.2
22.5°	1588.9	1595.8	1642.0	1715.2	1795.3	1849.1	1858.8	1840.8	1836.7	1861.5	1864.3
25°	1683.4	1689.7	1742.8	1821.5	1904.3	1963.0	1960.2	1916.1	1891.2	1906.4	1910.5
27.5°	1789.7	1798.7	1852.6	1934.0	2023.7	2075.5	2067.2	2003.0	1949.9	1947.1	1948.5
30°	1925.7	1935.4	1986.5	2064.4	2152.8	2200.4	2183.2	2096.9	2014.8	1987.1	1987.1
32.5°	2069.3	2093.4	2145.2	2226.7	2295.7	2330.2	2304.0	2200.4	2091.4	2052.7	2050.6
35°	2256.3	2269.4	2320.5	2399.9	2451.7	2478.6	2428.2	2317.1	2191.4	2145.9	2139.7
37.5°	2439.2	2450.3	2509.6	2585.6	2648.4	2647.0	2578.7	2455.8	2315.7	2264.6	2260.5
40°	2626.3	2638.0	2705.7	2775.4	2838.2	2832.7	2749.8	2612.5	2463.4	2406.1	2417.2
42.5°	2788.5	2801.6	2878.2	2977.6	3034.2	3032.8	2936.9	2782.3	2627.0	2575.9	2585.6
45°	2936.2	2947.9	3037.0	3150.9	3233.7	3244.0	3139.1	2975.5	2816.1	2750.5	2753.3
47.5°	3040.4	3062.5	3155.7	3286.1	3398.6	3435.2	3332.4	3172.3	2988.7	2920.3	2924.5
50°	3119.8	3133.6	3235.1	3383.5	3525.6	3601.6	3518.7	3354.5	3161.2	3088.7	3098.4
52.5°	3129.5	3146.0	3256.5	3427.6	3609.9	3725.1	3684.4	3532.5	3337.2	3262.7	3283.4
55°	3050.8	3060.4	3192.3	3400.0	3643.0	3816.9	3827.3	3698.2	3504.9	3448.3	3462.1
57.5°	2826.5	2851.3	3018.3	3271.0	3597.4	3865.9	3934.3	3848.7	3674.7	3618.8	3640.9
60°	2458.6	2483.4	2651.1	2971.4	3425.6	3843.1	4022.6	3981.9	3828.7	3783.8	3795.5
62.5°	1926.4	1924.3	2132.1	2524.8	3083.9	3731.3	4088.2	4110.3	3980.5	3923.9	3941.8
65°	1248.6	1254.8	1455.7	1878.8	2568.3	3447.0	4102.7	4273.8	4129.6	4044.0	4057.1
66°	1004.3	1022.9	1193.4	1583.4	2305.3	3260.6	4059.2	4322.2	4175.1	4071.6	4077.8
67.5°	741.3	737.8	878.0	1178.9	1840.8	2906.5	3923.2	4352.5	4226.9	4096.5	4099.2
70°	423.1	422.4	472.1	647.4	1082.3	2046.5	3306.8	4206.9	4331.8	4186.2	4178.6
72.5°	309.2	307.1	314.1	357.5	528.0	1033.3	2281.2	3676.8	4278.0	4171.7	4150.3
75°	259.5	258.1	256.8	262.3	296.1	468.0	1210.6	2644.9	3712.0	3915.6	3893.5
77.5°	211.9	211.9	212.6	211.2	212.6	246.4	501.8	1417.7	2260.5	2523.4	2584.9
80°	165.7	165.0	176.7	171.9	160.8	158.1	222.3	456.2	750.3	746.1	615.7
82.5°	122.2	113.9	134.6	131.1	118.7	100.8	129.8	194.6	250.5	162.9	120.8
85°	77.3	76.6	95.3	87.0	72.5	47.6	62.1	83.5	103.5	62.8	51.1
87.5°	13.8	13.1	30.4	22.1	22.1	13.8	17.3	22.8	33.8	23.5	17.3
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)