

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: P451959

Luminaire Tested: **GALN-SA2D-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11994 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

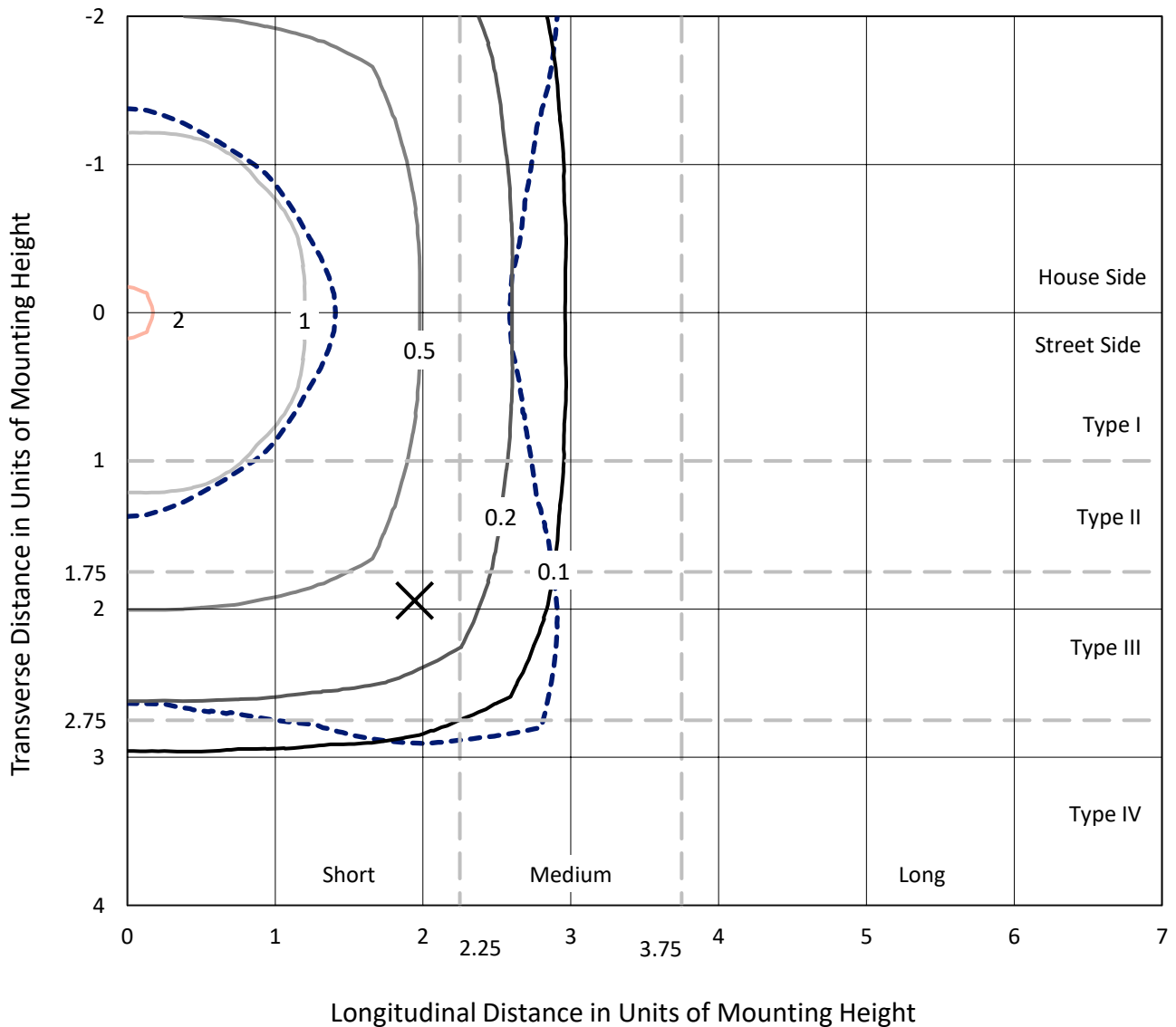
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

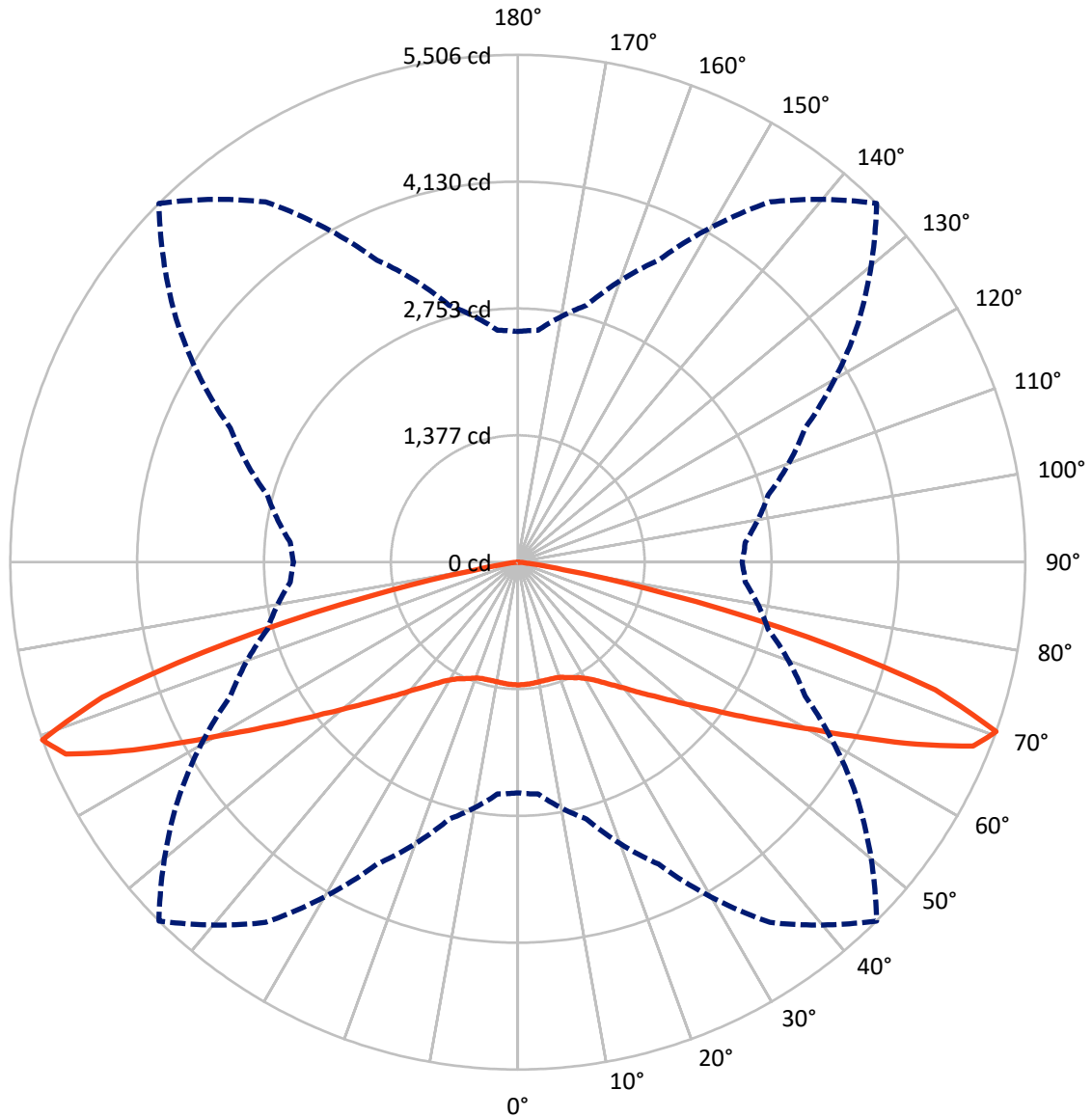
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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
<b>House Side</b>	Lumens	5997.0	0.0	5997.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5997.0	0.0	5997.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11994.0	0.0	11994.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	1.1
10°-20°	370.6	3.1
20°-30°	633.9	5.3
30°-40°	1006.1	8.4
40°-50°	1623.1	13.5
50°-60°	2640.8	22.0
60°-70°	3828.2	31.9
70°-80°	1698.1	14.2
80°-90°	67.0	0.6
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°	11994.0	100.0
0°-180°	11994.0	100.0



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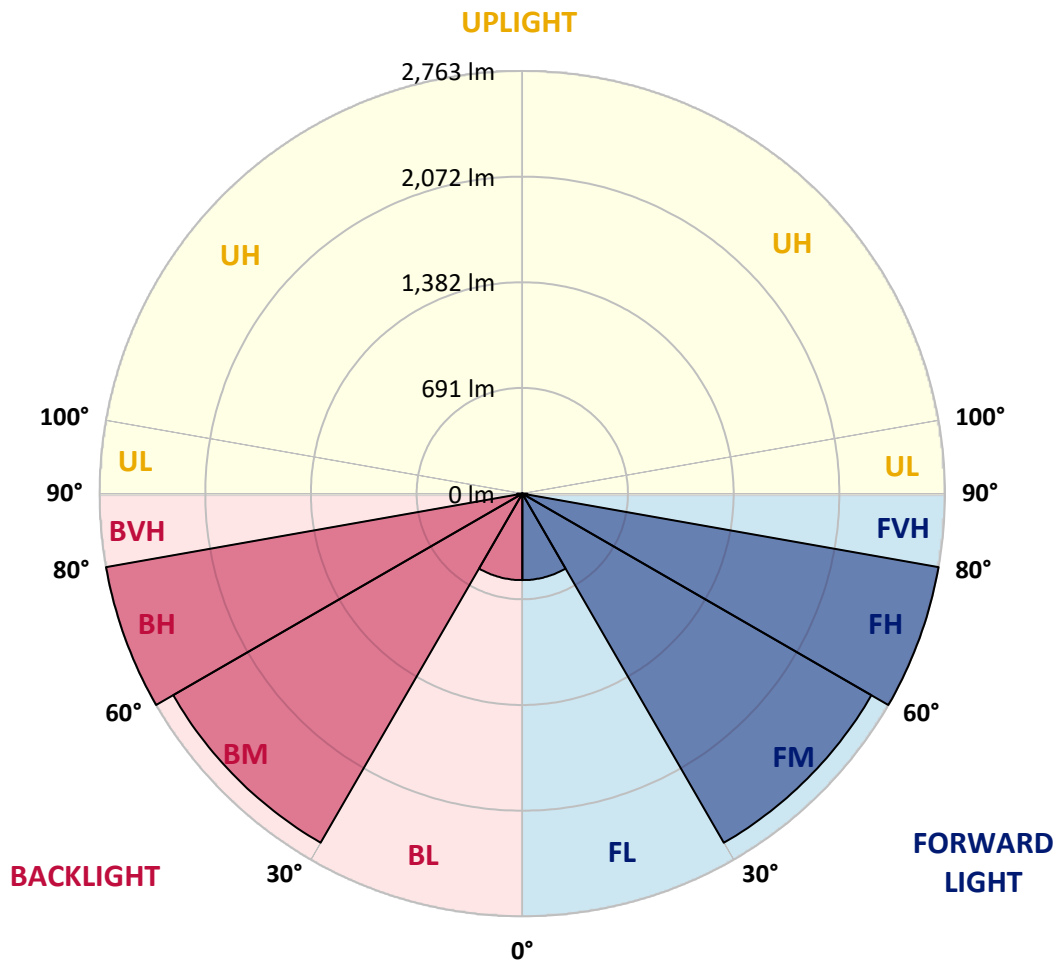
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.4	4.7			
FM (30°-60°)	2635.0	22.0			
FH (60°-80°)	2763.1	23.0			G2/5000
FVH (80°-90°)	33.5	0.3			G1/100
BL (0°-30°)	565.4	4.7	B2/1000		
BM (30°-60°)	2635.0	22.0	B3/5000		
BH (60°-80°)	2763.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	33.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1331.9	1333.1	1331.2	1330.0	1329.3	1329.3	1328.7	1329.3	1333.1	1333.8	1331.9
5°	1328.1	1329.3	1328.7	1327.5	1326.8	1326.8	1326.2	1325.6	1328.7	1330.0	1329.3
7.5°	1323.0	1323.7	1323.0	1322.4	1323.0	1322.4	1320.5	1319.2	1321.8	1321.8	1321.1
10°	1314.2	1315.4	1314.8	1315.4	1316.7	1316.7	1314.2	1311.6	1312.3	1311.0	1311.0
12.5°	1303.4	1305.3	1306.0	1308.5	1311.6	1315.4	1309.8	1304.1	1302.8	1302.2	1301.5
15°	1296.5	1298.4	1300.9	1303.4	1309.1	1317.3	1309.1	1300.3	1297.7	1295.2	1293.9
17.5°	1294.6	1297.1	1300.9	1304.7	1312.3	1320.5	1313.5	1304.7	1298.4	1294.6	1293.3
20°	1299.6	1301.5	1307.2	1314.2	1324.9	1333.1	1326.2	1316.7	1307.2	1301.5	1299.6
22.5°	1309.8	1312.9	1319.9	1332.5	1347.7	1359.7	1350.2	1334.4	1319.2	1311.6	1309.1
25°	1331.9	1334.4	1342.6	1359.7	1377.4	1388.8	1378.7	1360.3	1339.5	1329.3	1326.2
27.5°	1365.4	1369.2	1378.0	1398.2	1412.8	1419.1	1412.2	1399.5	1384.3	1373.6	1371.1
30°	1412.8	1417.2	1430.5	1452.0	1461.5	1465.3	1462.1	1453.9	1443.1	1431.8	1429.2
32.5°	1476.6	1479.2	1494.3	1514.6	1523.4	1524.7	1520.9	1517.1	1499.4	1480.4	1479.2
35°	1548.1	1552.5	1570.8	1594.8	1603.1	1603.7	1596.1	1590.4	1569.6	1554.4	1554.4
37.5°	1642.9	1644.8	1662.5	1689.7	1698.5	1696.0	1692.2	1687.1	1665.0	1645.4	1646.0
40°	1754.1	1757.9	1773.1	1804.7	1804.7	1801.5	1804.1	1800.3	1778.2	1759.2	1759.8
42.5°	1886.2	1888.1	1906.5	1940.0	1937.4	1931.1	1933.7	1928.6	1914.7	1893.2	1885.6
45°	2027.2	2034.8	2066.4	2098.6	2093.6	2073.4	2083.5	2082.2	2069.6	2037.3	2039.2
47.5°	2197.2	2209.9	2240.2	2278.8	2273.1	2241.5	2252.9	2260.5	2242.8	2207.4	2201.0
50°	2388.8	2397.0	2441.9	2477.9	2472.9	2439.4	2465.3	2466.5	2422.3	2372.3	2372.3
52.5°	2593.0	2601.2	2661.9	2718.1	2721.3	2672.6	2693.5	2692.2	2620.1	2554.4	2541.8
55°	2821.8	2825.6	2904.0	2986.8	3004.5	2957.1	2959.6	2934.3	2840.7	2764.3	2757.3
57.5°	3058.2	3072.1	3158.7	3266.2	3318.6	3289.6	3276.3	3208.6	3118.2	3030.4	3026.0
60°	3319.9	3320.5	3433.0	3560.1	3666.3	3685.9	3631.5	3541.1	3424.2	3307.9	3302.8
62.5°	3501.3	3528.5	3670.7	3885.6	4075.9	4185.9	4042.4	3852.8	3622.7	3434.9	3416.0
65°	3538.6	3556.9	3773.8	4137.9	4526.6	4763.7	4431.8	4028.5	3636.0	3385.6	3373.0
67.5°	3237.1	3256.7	3548.7	4107.5	4842.7	5328.8	4684.6	3943.8	3410.9	3101.2	3076.5
70°	2503.8	2526.0	2886.9	3615.7	4772.5	5506.4	4504.5	3440.0	2812.9	2478.5	2433.7
72.5°	1331.2	1412.8	1721.3	2481.7	3873.6	4740.9	3693.5	2510.1	1814.2	1483.0	1423.5
75°	486.1	496.2	668.2	1100.5	2253.5	3251.0	2340.1	1197.2	688.4	531.6	504.4
77.5°	201.0	200.4	220.0	332.5	818.6	1665.0	913.4	351.5	219.3	202.9	200.4
80°	118.8	118.8	130.8	138.4	215.6	502.5	240.8	156.8	131.5	120.1	122.0
82.5°	53.1	56.3	82.8	87.2	104.3	137.8	116.3	99.9	86.0	59.4	53.7
85°	29.1	25.3	43.6	45.5	49.9	51.2	55.0	54.4	49.9	29.1	29.7
87.5°	5.7	7.0	12.6	9.5	10.7	9.5	12.6	17.7	18.3	10.1	8.2
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)