

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: P452676

Luminaire Tested: **GALN-SA3C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

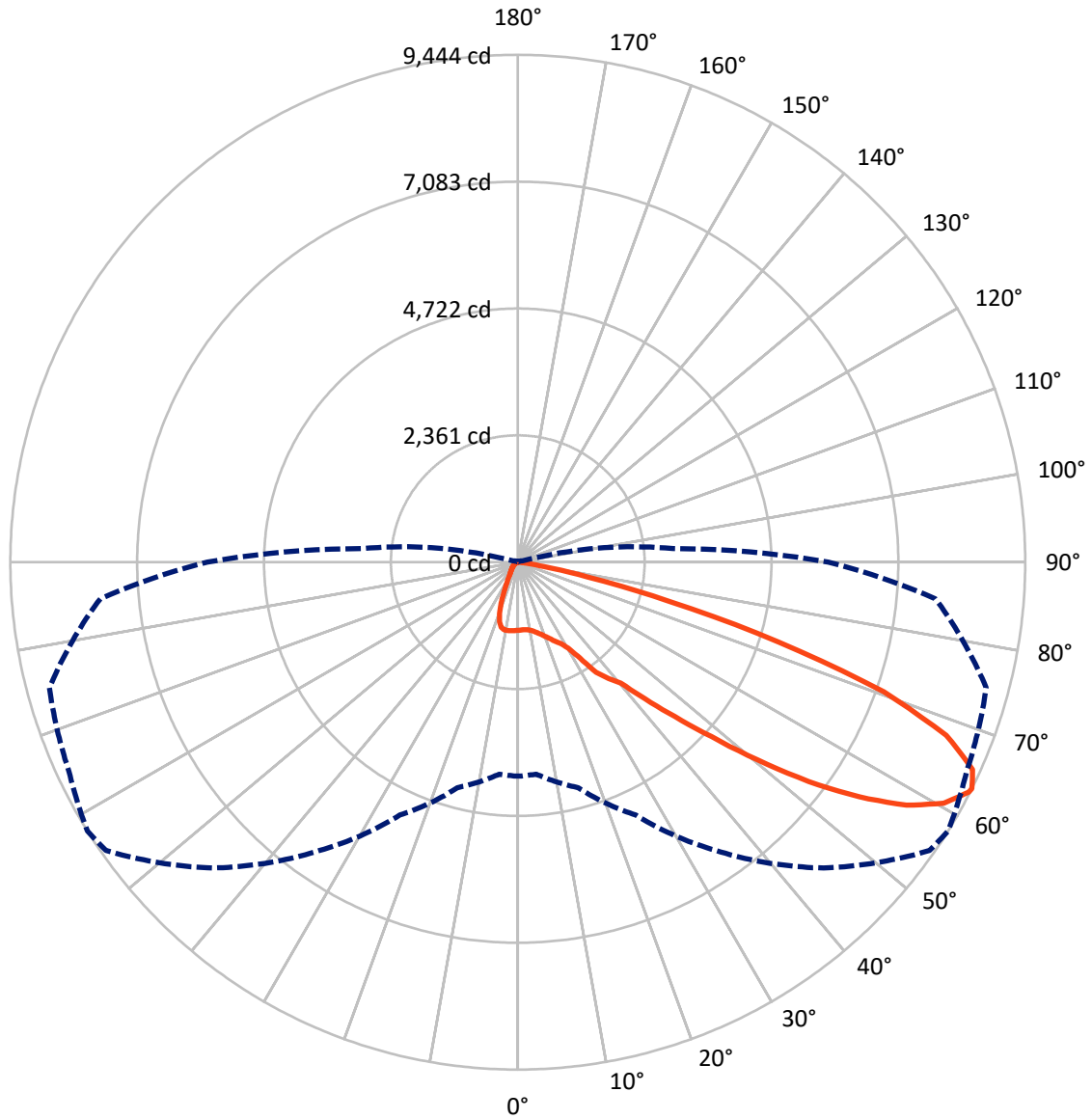
Lumens per Lamp: N/A
Luminaire Lumens: 11327 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1172.8	0.0	1172.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10154.2	0.0	10154.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	11327.0	0.0	11327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	1.0
10°-20°	323.3	2.9
20°-30°	561.1	5.0
30°-40°	1031.2	9.1
40°-50°	1941.2	17.1
50°-60°	3320.2	29.3
60°-70°	3179.1	28.1
70°-80°	810.7	7.2
80°-90°	41.5	0.4
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°	11327.0	100.0
0°-180°	11327.0	100.0

Coefficient of Utilization



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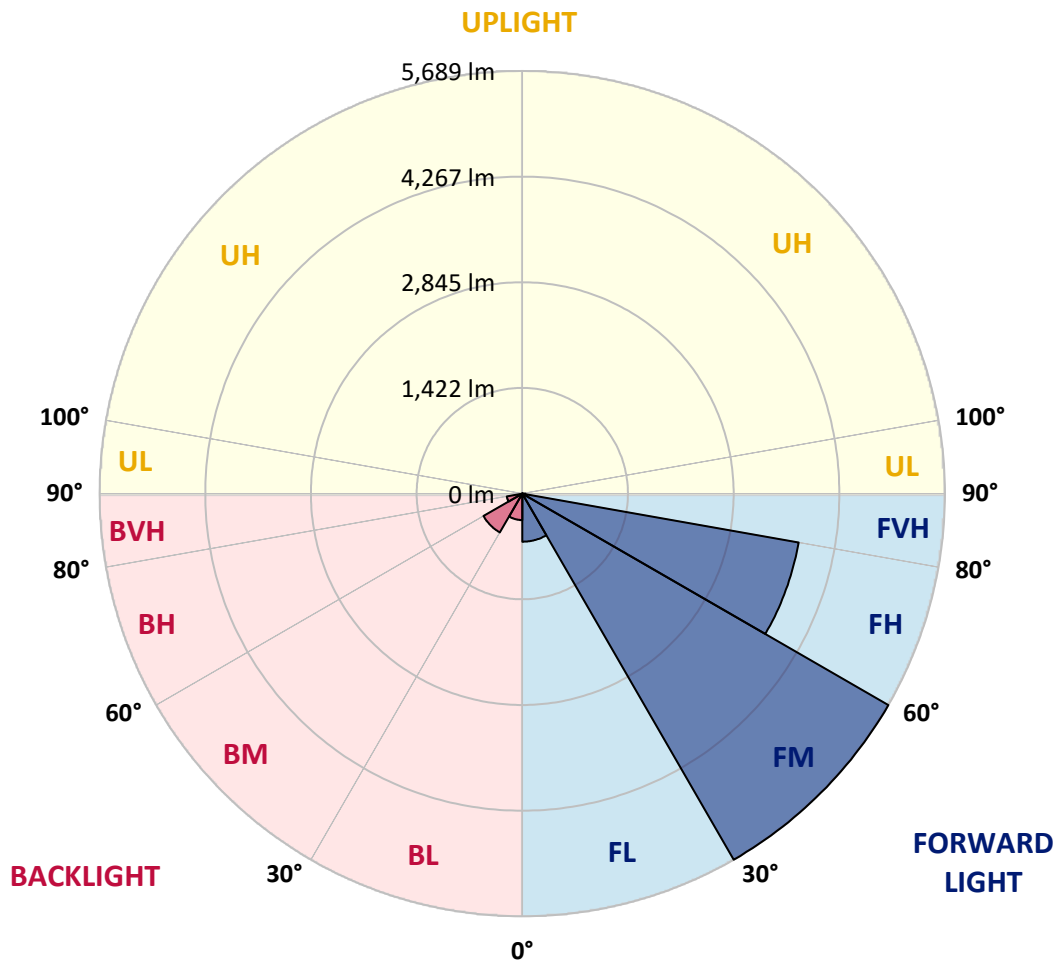
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.5	5.7			
FM (30°-60°)	5689.3	50.2			
FH (60°-80°)	3777.5	33.3			G2/5000
FVH (80°-90°)	39.8	0.4			G1/100
BL (0°-30°)	355.7	3.1	B1/500		
BM (30°-60°)	603.2	5.3	B1/1000		
BH (60°-80°)	212.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1236.5	1240.8	1245.1	1246.8	1252.8	1258.7	1263.0	1262.1	1269.0	1272.4	1272.4
5°	1187.1	1187.1	1198.2	1208.4	1225.5	1242.5	1258.7	1262.1	1274.9	1286.9	1291.1
7.5°	1145.3	1147.9	1156.4	1175.1	1198.2	1228.0	1260.4	1268.1	1290.3	1316.7	1327.8
10°	1125.7	1127.4	1138.5	1158.1	1187.1	1228.0	1273.2	1287.7	1321.8	1363.6	1379.0
12.5°	1121.4	1124.0	1135.1	1157.2	1190.5	1240.0	1301.4	1316.7	1366.2	1419.9	1442.9
15°	1129.1	1130.8	1141.9	1165.8	1202.4	1261.3	1338.9	1360.2	1419.0	1481.3	1511.1
17.5°	1156.4	1154.7	1162.4	1182.0	1222.9	1287.7	1384.1	1409.7	1478.7	1564.0	1583.6
20°	1272.4	1261.3	1254.5	1237.4	1253.6	1325.2	1438.7	1476.2	1561.5	1648.4	1662.1
22.5°	1522.2	1497.5	1448.9	1382.4	1331.2	1376.4	1504.3	1547.8	1657.8	1743.1	1743.1
25°	1840.3	1808.8	1760.2	1615.2	1489.8	1460.8	1578.5	1633.1	1762.7	1848.9	1820.7
27.5°	2238.6	2213.8	2119.2	1950.3	1758.5	1608.4	1664.6	1715.0	1855.7	1959.7	1900.9
30°	2562.6	2550.7	2473.1	2322.2	2110.7	1891.5	1825.0	1858.2	1979.3	2099.6	2039.0
32.5°	2836.4	2836.4	2757.1	2616.4	2418.5	2224.1	2097.0	2120.9	2236.9	2375.9	2263.3
35°	3137.4	3127.2	3063.2	2929.3	2707.6	2536.2	2484.2	2516.6	2621.5	2724.7	2447.5
37.5°	3453.8	3450.4	3383.9	3254.3	3073.5	2857.7	2735.8	2744.3	2798.0	2861.1	2663.3
40°	3797.5	3802.6	3715.6	3635.5	3464.9	3244.0	3010.4	2956.6	3006.9	3185.2	3061.5
42.5°	4203.4	4191.5	4153.9	4044.8	3907.5	3775.3	3494.7	3475.1	3519.5	3710.5	3576.6
45°	4675.0	4692.1	4627.2	4566.7	4474.6	4364.6	4130.1	4096.0	4144.6	4441.3	4251.2
47.5°	5147.5	5131.2	5173.0	5161.9	5211.4	5129.5	4922.3	4852.4	4969.2	5250.6	4970.9
50°	5507.3	5525.2	5612.2	5739.3	5951.6	5997.7	5799.0	5775.1	5827.1	6007.9	5614.8
52.5°	5741.0	5800.7	5937.1	6263.8	6646.7	6944.3	6793.3	6780.5	6759.2	6807.8	6230.5
55°	5893.6	5954.2	6132.4	6613.4	7272.6	7756.1	7763.8	7709.2	7568.5	7533.6	6806.1
57.5°	5799.8	5811.8	6065.9	6708.9	7619.7	8335.2	8585.9	8531.3	8271.2	8139.0	7314.4
60°	5213.1	5237.8	5591.8	6347.3	7468.8	8524.5	9130.8	9106.1	8821.3	8672.0	7710.1
62.5°	4173.6	4245.2	4609.3	5451.9	6766.9	8205.6	9351.7	9421.6	9199.9	8994.4	7834.6
63°	3982.5	3959.5	4344.1	5190.9	6581.0	8047.8	9355.1	9443.8	9217.0	9025.1	7800.5
65°	2948.1	3017.2	3267.0	4093.4	5476.6	7313.5	9144.5	9301.4	9153.9	8889.5	7422.7
67.5°	1655.3	1651.9	1928.2	2678.6	3833.3	5736.7	8268.7	8600.4	8569.7	7977.0	6152.9
70°	810.2	822.9	936.4	1388.3	2223.2	3957.8	6870.9	7229.1	7240.2	6265.5	4254.6
72.5°	366.7	372.7	453.7	676.3	1142.7	2107.2	4734.7	5076.7	5013.6	3992.8	2349.4
75°	193.6	206.4	249.9	340.3	550.9	869.0	2575.4	2906.3	2774.1	1824.1	864.7
77.5°	143.3	147.5	169.7	216.6	295.1	338.6	1111.2	1321.8	1238.3	660.1	286.5
80°	104.9	108.3	126.2	153.5	185.9	172.3	418.7	480.1	430.7	224.3	87.8
82.5°	64.0	64.8	92.1	114.3	116.8	96.4	138.2	148.4	155.2	126.2	47.8
85°	23.0	29.0	62.3	82.7	69.1	48.6	58.0	64.0	69.9	80.2	28.1
87.5°	2.6	3.4	29.8	40.1	19.6	17.9	21.3	23.9	25.6	29.8	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1275.8	1279.2	1276.6	1272.4	1271.5	1269.0	1263.8	1263.8	1263.8	1265.5	1263.8
5°	1294.5	1297.1	1291.1	1282.6	1273.2	1261.3	1248.5	1240.8	1240.0	1238.3	1234.0
7.5°	1330.4	1333.8	1320.1	1299.7	1274.1	1245.1	1217.8	1192.2	1180.3	1170.9	1170.9
10°	1382.4	1385.8	1358.5	1321.8	1270.7	1211.8	1147.0	1088.2	1042.1	1020.8	1015.7
12.5°	1444.6	1446.3	1401.1	1337.2	1252.8	1139.3	1001.2	872.4	782.9	741.9	737.7
15°	1512.9	1500.9	1441.2	1343.1	1201.6	990.1	751.3	593.5	500.6	473.3	483.5
17.5°	1581.9	1559.8	1471.9	1333.8	1086.5	751.3	504.9	405.1	376.1	368.4	368.4
20°	1646.7	1616.0	1494.1	1292.8	886.9	517.6	374.4	350.5	345.4	340.3	341.1
22.5°	1711.6	1664.6	1513.7	1201.6	660.9	370.1	335.1	327.5	320.6	313.8	313.0
25°	1774.7	1709.8	1521.4	1032.7	450.3	318.1	306.2	295.9	282.3	274.6	272.9
27.5°	1840.3	1764.4	1516.3	819.5	328.3	284.8	272.9	258.4	242.2	228.5	228.5
30°	1966.5	1868.5	1498.4	589.3	276.3	250.7	235.4	212.3	194.4	180.8	179.9
32.5°	2138.8	2004.1	1437.0	414.5	245.6	220.9	197.8	172.3	153.5	143.3	143.3
35°	2292.3	2140.5	1321.8	305.3	220.9	191.9	163.7	139.0	124.5	117.7	115.1
37.5°	2526.0	2340.1	1163.2	248.2	197.0	166.3	137.3	114.3	102.3	97.2	97.2
40°	2876.5	2584.0	968.8	217.5	174.0	141.6	114.3	96.4	87.0	81.0	81.0
42.5°	3311.4	2882.4	771.8	195.3	152.6	121.9	95.5	81.9	73.3	69.1	68.2
45°	3858.9	3197.1	594.4	174.8	135.6	104.0	81.0	69.1	60.5	58.0	58.8
47.5°	4430.3	3474.3	460.5	156.9	117.7	87.8	69.1	59.7	53.7	50.3	50.3
50°	4918.1	3665.3	349.6	136.4	104.0	74.2	60.5	53.7	48.6	46.9	46.1
52.5°	5325.7	3720.7	267.8	118.5	91.2	64.0	53.7	48.6	44.3	41.8	41.8
55°	5672.8	3672.1	209.8	99.8	76.8	55.4	47.8	43.5	38.4	35.8	35.0
57.5°	5875.7	3516.1	160.3	82.7	62.3	46.1	41.8	36.7	30.7	26.4	26.4
60°	5978.1	3289.2	122.8	68.2	47.8	36.7	34.1	27.3	21.3	17.9	17.1
62.5°	5855.3	2988.2	93.0	53.7	35.8	27.3	23.0	19.6	13.6	10.2	10.2
63°	5779.4	2901.2	89.5	51.2	33.3	25.6	21.3	17.9	11.9	9.4	8.5
65°	5268.5	2521.7	73.3	40.9	26.4	17.9	14.5	12.8	8.5	4.3	3.4
67.5°	4183.8	1929.0	58.0	30.7	18.8	12.8	8.5	7.7	2.6	0.0	0.0
70°	2828.7	1245.9	45.2	22.2	12.8	7.7	4.3	3.4	0.9	0.0	0.0
72.5°	1475.3	638.7	35.0	16.2	7.7	5.1	2.6	0.9	0.0	0.0	0.0
75°	521.9	217.5	25.6	10.2	5.1	2.6	0.9	0.0	0.0	0.0	0.0
77.5°	157.8	81.0	16.2	7.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	55.4	29.8	9.4	5.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	27.3	14.5	6.0	4.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.4	9.4	5.1	4.3	2.6	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	6.8	5.1	4.3	3.4	1.7	0.9	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)