

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: P527158

Luminaire Tested: **GALN-SA2A-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6583 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 63
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



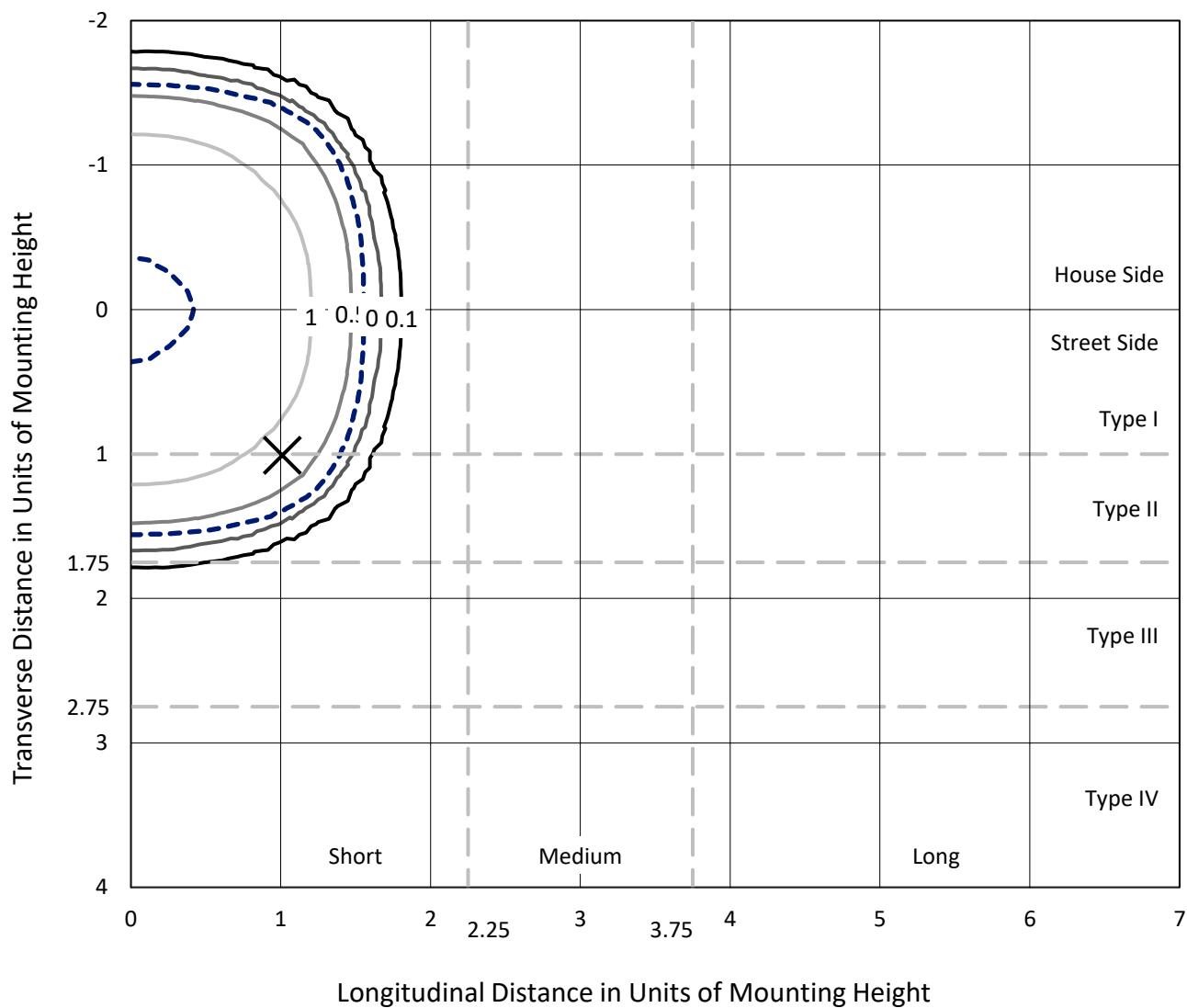
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

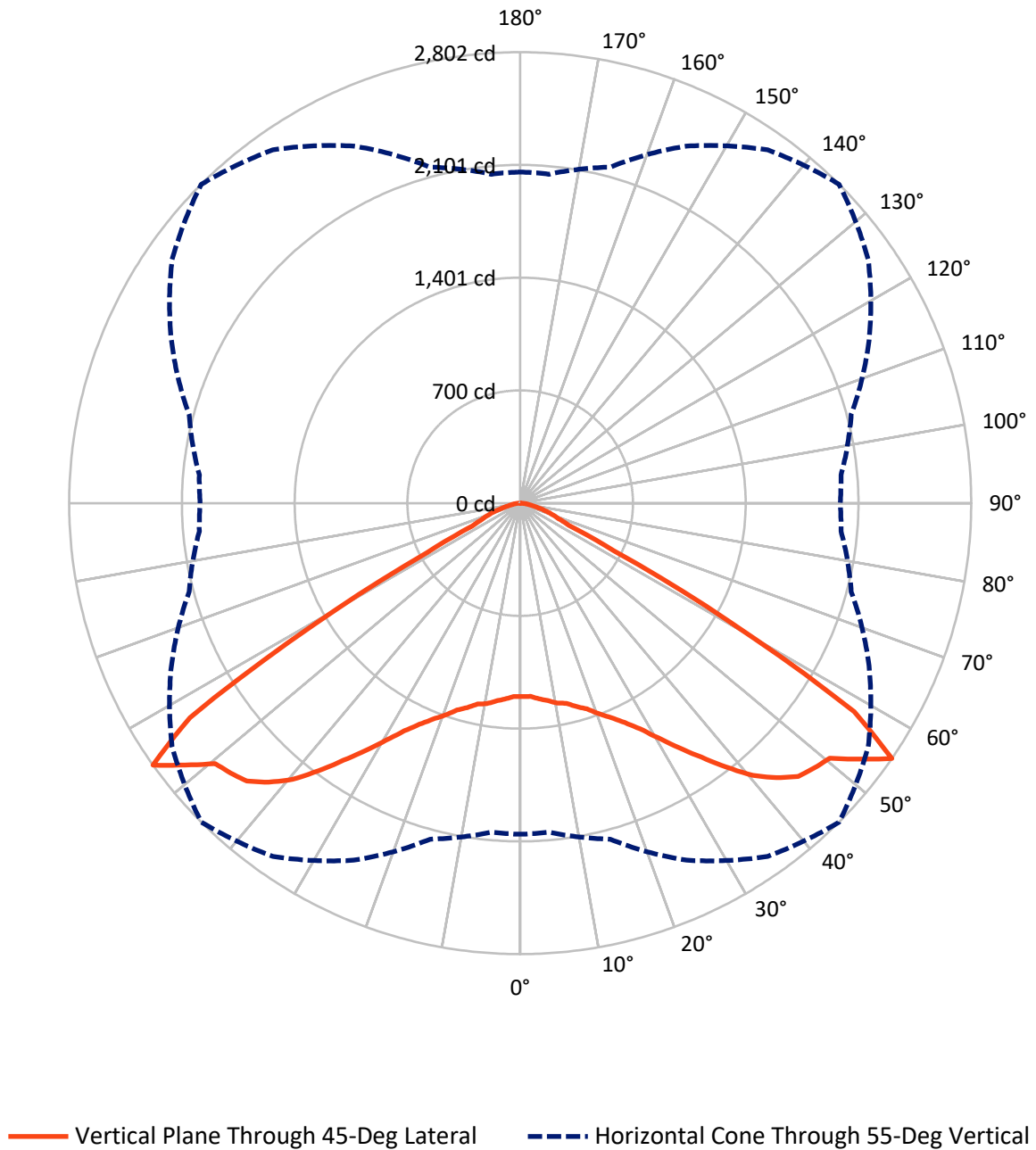
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3291.5	0.0	3291.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3291.5	0.0	3291.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6583.0	0.0	6583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.8
10°-20°	372.0	5.7
20°-30°	693.7	10.5
30°-40°	1161.6	17.6
40°-50°	1807.5	27.5
50°-60°	1876.7	28.5
60°-70°	398.0	6.0
70°-80°	131.1	2.0
80°-90°	25.0	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°	6583.0	100.0
0°-180°	6583.0	100.0

Coefficient of Utilization



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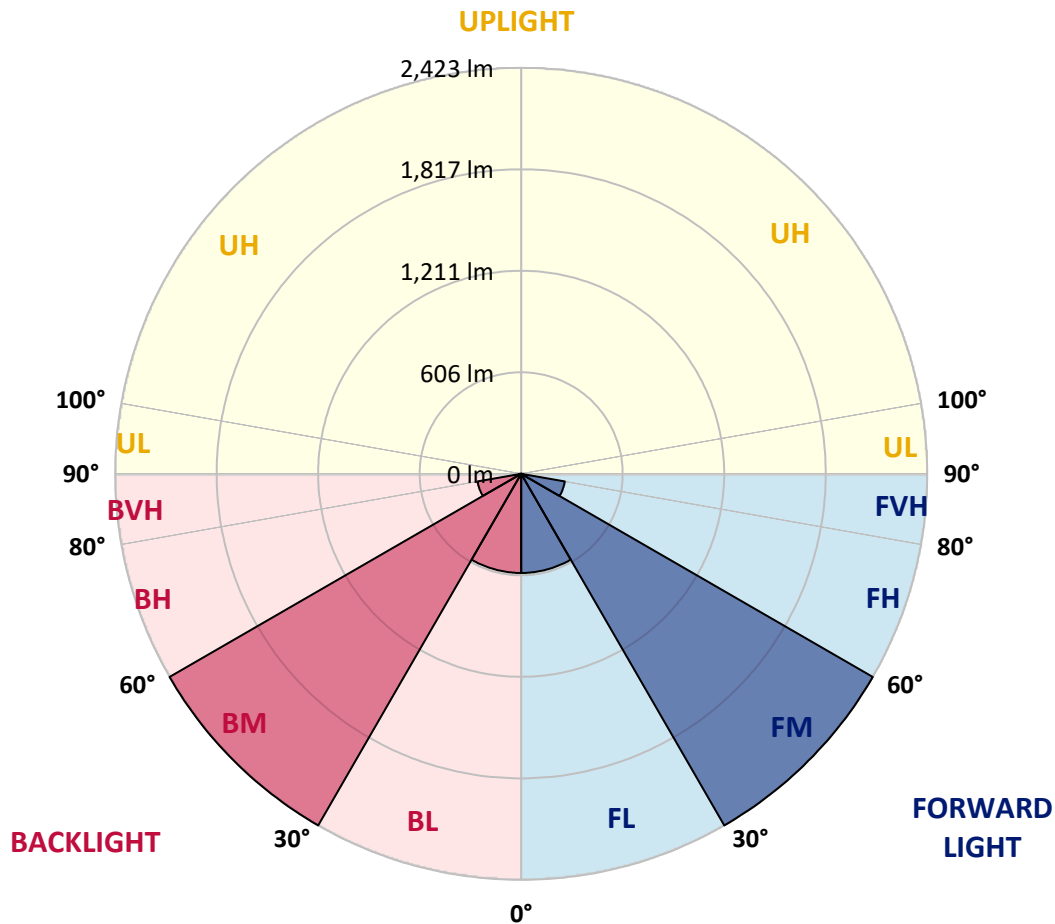
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.6	9.0			
FM	(30°-60°)	2422.9	36.8			
FH	(60°-80°)	264.5	4.0			G0/660
FVH	(80°-90°)	12.5	0.2			G1/100
BL	(0°-30°)	591.6	9.0	B2/1000		
BM	(30°-60°)	2422.9	36.8	B2/2500		
BH	(60°-80°)	264.5	4.0	B1/500		G0/660
BVH	(80°-90°)	12.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0
2.5°	1216.3	1210.7	1201.2	1208.3	1213.9	1202.0	1206.7	1209.1	1207.5	1201.2	1203.5
5°	1233.8	1230.6	1222.6	1228.2	1221.0	1221.0	1216.3	1209.9	1219.5	1217.9	1221.8
7.5°	1233.8	1229.8	1245.7	1235.4	1238.5	1238.5	1230.6	1224.2	1229.0	1221.8	1217.9
10°	1258.4	1264.0	1256.8	1259.2	1257.6	1263.2	1251.3	1247.3	1243.3	1240.9	1236.2
12.5°	1287.9	1283.9	1286.3	1284.7	1290.3	1275.9	1268.8	1260.0	1267.2	1256.8	1264.0
15°	1311.7	1309.3	1311.7	1318.1	1312.5	1311.7	1299.0	1290.3	1279.1	1281.5	1270.4
17.5°	1344.3	1342.0	1342.8	1348.3	1347.5	1343.6	1334.0	1317.3	1313.3	1307.0	1299.8
20°	1392.9	1388.9	1387.3	1389.7	1393.7	1396.8	1377.8	1371.4	1357.9	1347.5	1335.6
22.5°	1434.2	1432.6	1439.0	1428.7	1437.4	1447.0	1428.7	1425.5	1392.1	1386.5	1373.8
25°	1491.5	1489.1	1485.1	1500.3	1510.6	1509.8	1492.3	1474.8	1449.3	1443.0	1443.0
27.5°	1552.0	1538.4	1559.1	1563.1	1581.4	1587.0	1571.9	1546.4	1522.5	1509.0	1512.2
30°	1627.5	1614.8	1619.6	1648.2	1672.1	1692.8	1654.6	1617.2	1583.8	1559.9	1555.9
32.5°	1703.1	1690.4	1704.7	1732.5	1780.3	1811.3	1773.9	1708.7	1669.7	1634.7	1641.9
35°	1764.4	1773.9	1797.0	1839.1	1888.4	1938.6	1878.9	1828.8	1773.1	1734.1	1739.7
37.5°	1863.0	1892.4	1910.7	1959.2	2029.2	2081.0	2018.9	1953.7	1894.0	1843.1	1825.6
40°	1991.9	2011.7	2032.4	2089.7	2172.4	2224.1	2165.3	2080.2	2021.3	1968.8	1966.4
42.5°	2133.5	2152.5	2174.0	2244.0	2293.3	2332.3	2278.2	2232.9	2167.7	2126.3	2123.9
45°	2298.1	2284.6	2308.5	2354.6	2396.0	2421.4	2386.4	2364.1	2317.2	2279.0	2275.0
47.5°	2407.9	2396.0	2438.9	2480.3	2486.6	2458.8	2466.0	2486.6	2437.3	2374.5	2394.4
50°	2471.5	2471.5	2500.2	2538.3	2526.4	2490.6	2547.1	2548.7	2499.4	2443.7	2443.7
52.5°	2361.0	2385.6	2466.8	2591.6	2631.4	2641.8	2629.0	2574.9	2446.1	2332.3	2326.8
55°	2057.1	2051.5	2161.3	2447.7	2679.1	2801.7	2639.4	2390.4	2128.7	2000.6	1987.9
57.5°	1338.0	1344.3	1508.2	1800.2	2217.8	2446.1	2172.4	1822.4	1508.2	1331.6	1348.3
60°	602.2	623.6	723.1	941.0	1299.8	1485.9	1303.0	988.8	758.9	658.7	667.4
62.5°	346.0	350.0	354.0	420.0	553.6	654.7	575.1	443.9	391.4	373.9	373.9
65°	291.9	289.6	290.3	295.9	310.2	330.9	322.2	310.2	311.8	310.2	307.8
67.5°	248.2	251.4	249.0	253.0	253.8	256.9	262.5	267.3	268.1	269.7	268.1
70°	203.6	204.4	206.0	209.2	210.0	212.4	220.3	224.3	226.7	226.7	229.9
72.5°	155.9	155.1	156.7	159.9	163.9	164.7	171.8	177.4	180.6	176.6	177.4
75°	102.6	103.4	105.8	108.2	113.8	119.3	121.7	127.3	128.1	129.7	125.7
77.5°	61.3	62.8	65.2	70.0	74.8	79.5	85.1	89.1	90.7	89.1	84.3
80°	39.8	39.8	43.0	46.9	52.5	56.5	59.7	62.8	65.2	62.8	61.3
82.5°	24.7	24.7	28.6	33.4	37.4	39.8	44.5	48.5	50.9	49.3	46.9
85°	12.7	13.5	16.7	20.7	23.9	25.5	24.7	22.3	19.9	19.1	17.5
87.5°	4.0	4.0	4.8	4.8	4.0	4.0	4.8	4.0	4.8	4.8	4.8
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)