

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: P527857

Luminaire Tested: **GALN-SA2D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7419 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

Input Watts (W): 125
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



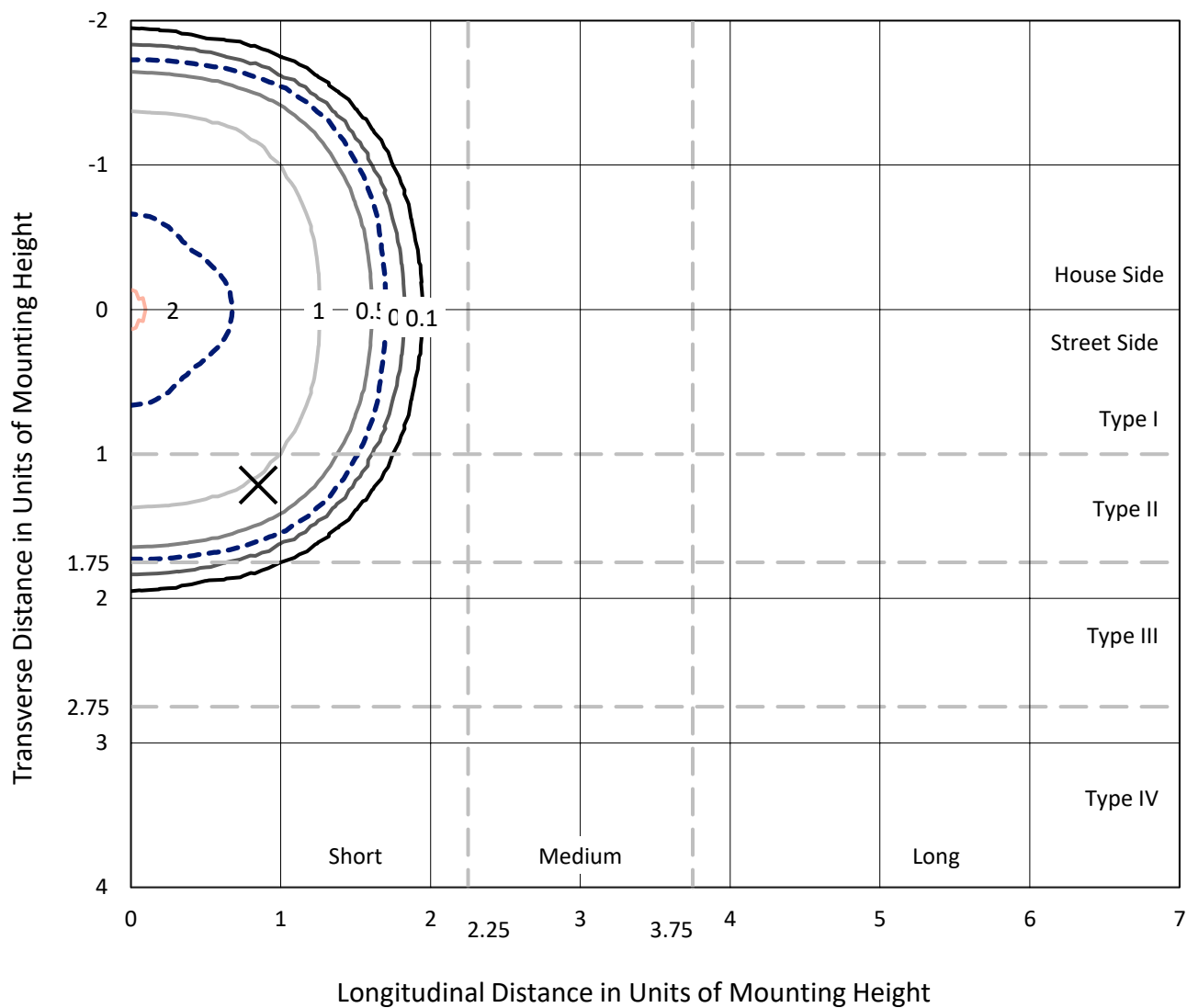
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

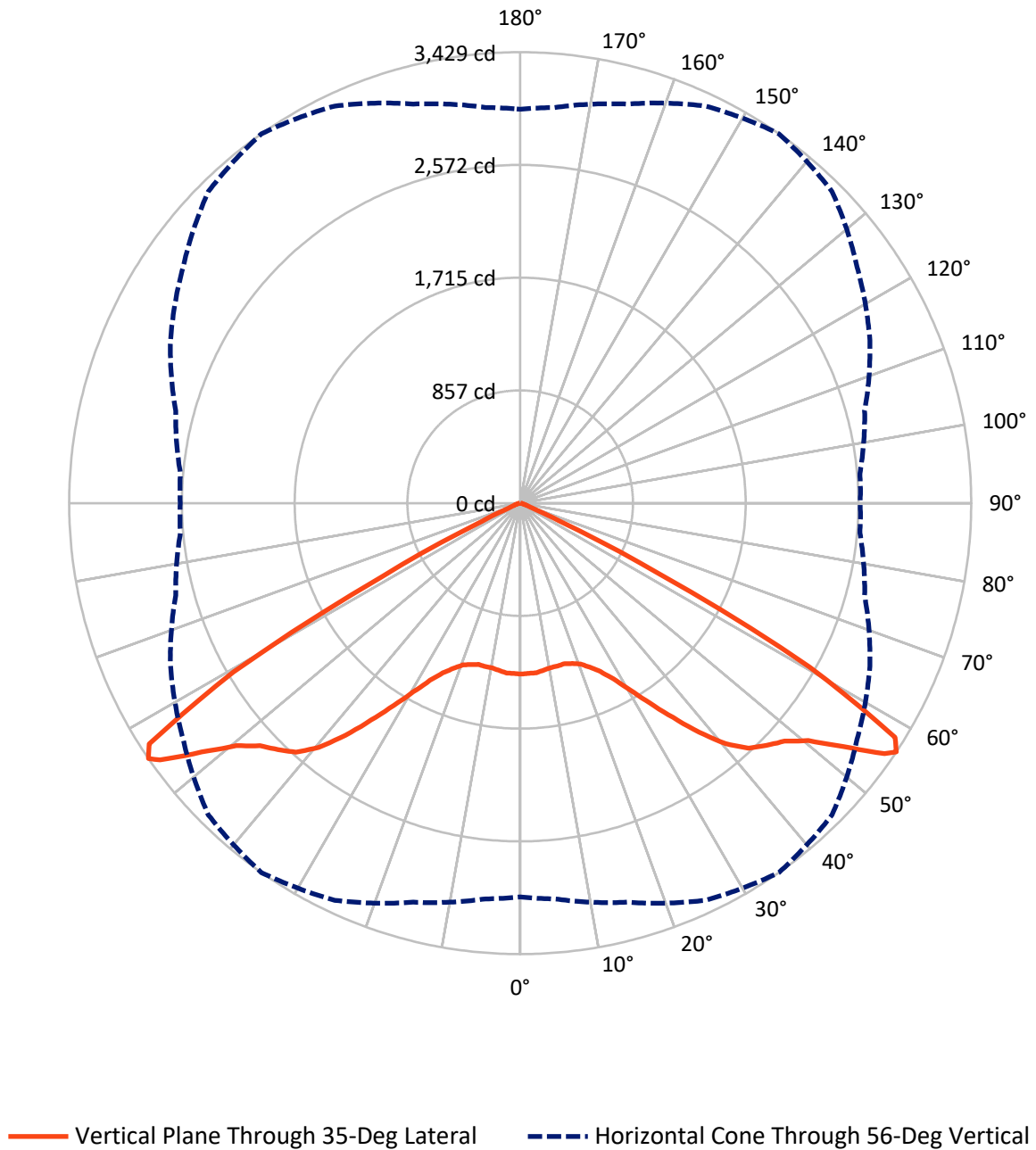
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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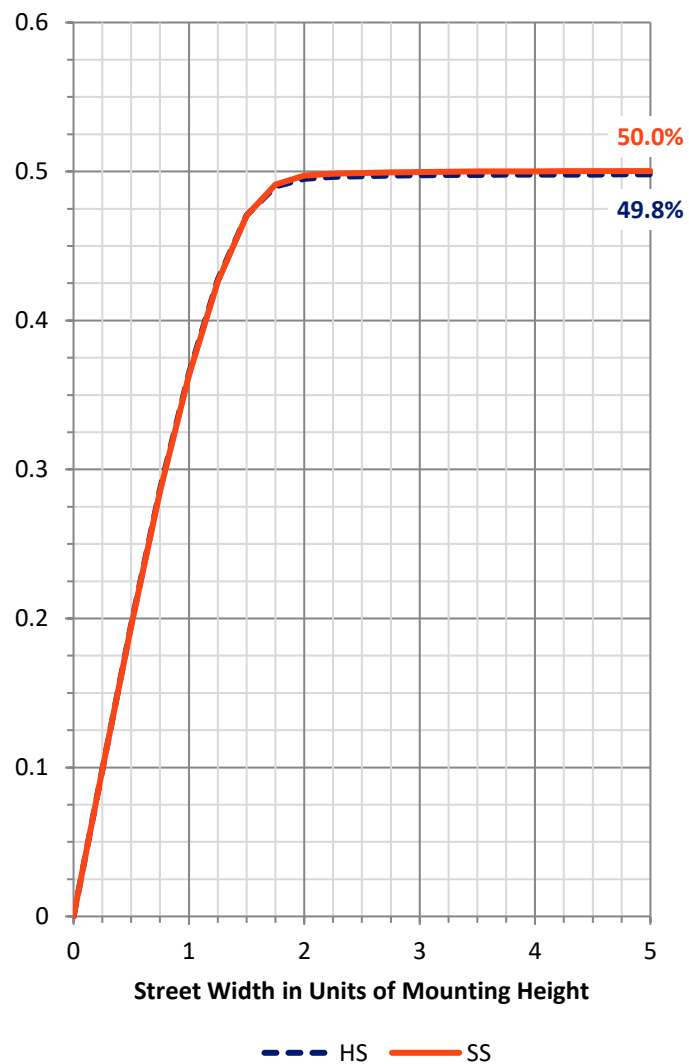
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3709.5	0.0	3709.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3709.5	0.0	3709.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7419.0	0.0	7419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.6
10°-20°	356.7	4.8
20°-30°	645.9	8.7
30°-40°	1197.8	16.1
40°-50°	1966.1	26.5
50°-60°	2532.9	34.1
60°-70°	558.2	7.5
70°-80°	32.4	0.4
80°-90°	6.8	0.1
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°	7419.0	100.0
0°-180°	7419.0	100.0

Coefficient of Utilization



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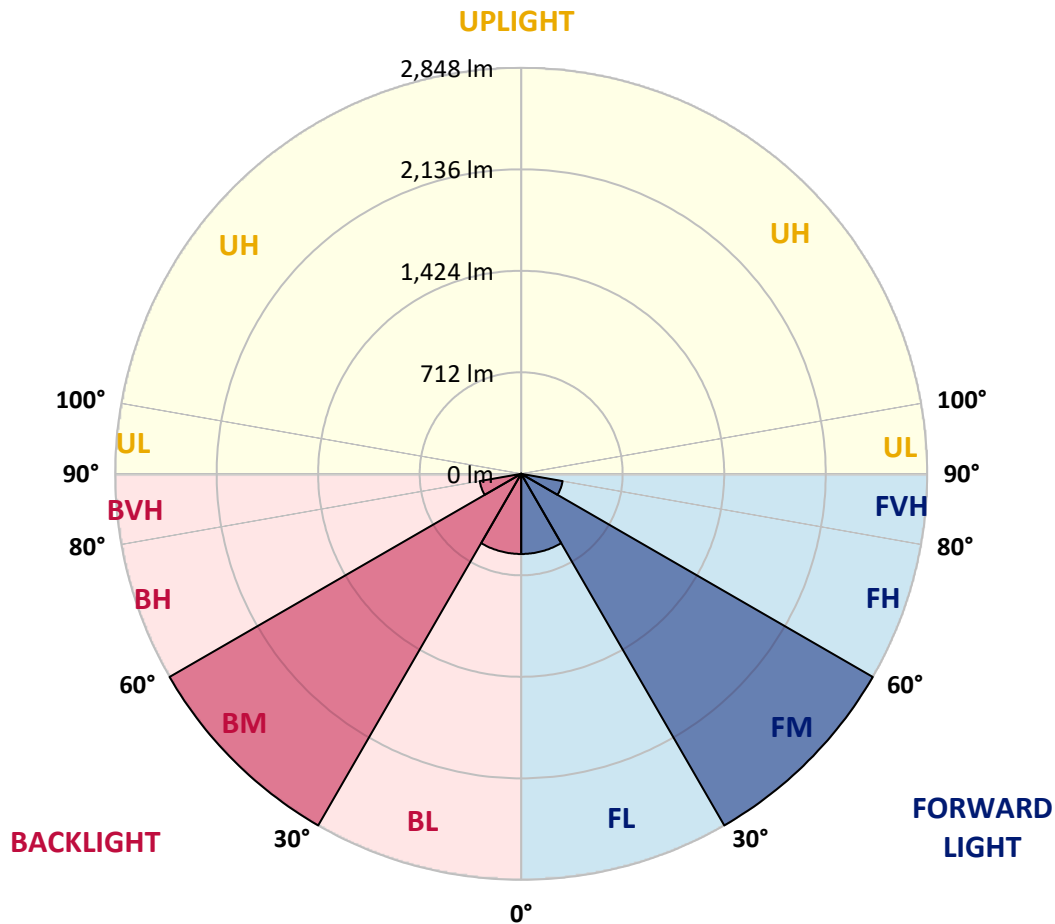
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	562.4	7.6			
FM	(30°-60°)	2848.4	38.4			
FH	(60°-80°)	295.3	4.0			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	562.4	7.6	B2/1000		
BM	(30°-60°)	2848.4	38.4	B3/5000		
BH	(60°-80°)	295.3	4.0	B1/500		G0/660
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0
2.5°	1302.7	1302.7	1304.0	1305.3	1295.9	1291.9	1293.2	1290.6	1289.2	1293.2	1293.2
5°	1298.6	1298.6	1294.6	1295.9	1295.9	1283.8	1283.8	1286.5	1286.5	1278.5	1275.8
7.5°	1287.9	1285.2	1279.8	1286.5	1282.5	1282.5	1273.1	1266.4	1263.7	1269.0	1263.7
10°	1265.0	1266.4	1271.7	1274.4	1271.7	1279.8	1263.7	1254.3	1244.9	1240.8	1240.8
12.5°	1254.3	1262.3	1254.3	1261.0	1270.4	1263.7	1254.3	1247.5	1234.1	1228.7	1228.7
15°	1252.9	1258.3	1261.0	1270.4	1266.4	1269.0	1250.2	1242.2	1222.0	1212.6	1208.6
17.5°	1251.6	1258.3	1262.3	1279.8	1282.5	1283.8	1269.0	1244.9	1227.4	1218.0	1208.6
20°	1266.4	1269.0	1277.1	1294.6	1305.3	1324.2	1297.3	1271.7	1234.1	1223.3	1219.3
22.5°	1285.2	1298.6	1306.7	1325.5	1353.7	1369.9	1334.9	1302.7	1263.7	1250.2	1234.1
25°	1345.7	1343.0	1356.4	1395.4	1418.3	1430.4	1402.1	1355.1	1304.0	1287.9	1290.6
27.5°	1421.0	1423.6	1435.7	1478.8	1512.4	1531.2	1497.6	1435.7	1386.0	1359.1	1356.4
30°	1519.1	1516.4	1529.8	1587.7	1648.2	1676.4	1617.2	1544.6	1496.2	1461.3	1469.4
32.5°	1622.6	1624.0	1661.6	1714.0	1812.2	1867.3	1771.8	1683.1	1610.5	1586.3	1574.2
35°	1775.9	1782.6	1812.2	1892.8	2001.7	2073.0	1968.1	1861.9	1778.6	1734.2	1739.6
37.5°	1965.4	1958.7	2008.4	2095.8	2210.1	2262.5	2173.8	2052.8	1968.1	1938.5	1957.3
40°	2167.1	2173.8	2199.3	2278.6	2406.4	2441.3	2309.6	2243.7	2169.8	2155.0	2177.8
42.5°	2368.7	2364.7	2383.5	2454.7	2547.5	2523.3	2445.3	2406.4	2353.9	2324.3	2355.3
45°	2516.6	2509.9	2544.8	2593.2	2626.8	2581.1	2546.2	2532.7	2505.8	2473.6	2501.8
47.5°	2660.4	2655.1	2688.7	2702.1	2704.8	2644.3	2651.0	2675.2	2608.0	2540.8	2573.1
50°	2782.8	2773.4	2815.0	2844.6	2837.9	2741.1	2765.3	2741.1	2636.2	2556.9	2544.8
52.5°	2987.1	2991.1	3035.5	3089.3	3073.1	2992.5	2957.5	2847.3	2712.9	2641.6	2599.9
55°	3116.2	3096.0	3172.6	3343.4	3362.2	3278.8	3124.2	2961.6	2759.9	2672.5	2661.8
56°	2995.2	3020.7	3141.7	3332.6	3429.4	3352.8	3128.3	2933.3	2711.5	2593.2	2585.1
57.5°	2687.3	2673.9	2837.9	3098.7	3362.2	3329.9	3018.0	2731.7	2473.6	2340.5	2324.3
60°	1672.3	1711.3	1855.2	2177.8	2530.0	2546.2	2237.0	1991.0	1689.8	1571.5	1599.8
62.5°	654.7	621.1	711.2	951.8	1193.8	1247.5	1130.6	939.7	771.6	654.7	646.6
65°	151.9	147.9	166.7	229.9	321.3	372.4	353.6	254.1	186.9	177.5	164.0
67.5°	86.0	86.0	82.0	82.0	90.1	95.4	91.4	90.1	94.1	98.1	96.8
70°	60.5	59.2	56.5	57.8	55.1	55.1	59.2	65.9	71.2	71.2	72.6
72.5°	36.3	36.3	36.3	40.3	40.3	40.3	44.4	49.7	51.1	49.7	48.4
75°	16.1	16.1	18.8	22.9	25.5	26.9	30.9	33.6	36.3	33.6	30.9
77.5°	4.0	4.0	6.7	9.4	12.1	14.8	20.2	24.2	25.5	24.2	20.2
80°	1.3	1.3	2.7	6.7	12.1	14.8	20.2	21.5	22.9	20.2	16.1
82.5°	1.3	1.3	2.7	6.7	9.4	12.1	16.1	18.8	20.2	17.5	16.1
85°	0.0	1.3	2.7	5.4	8.1	10.8	10.8	8.1	6.7	4.0	5.4
87.5°	0.0	0.0	1.3	1.3	0.0	0.0	0.0	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)