

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: P528797

Luminaire Tested: **GALN-SA3D-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9572 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

Input Watts (W): 184
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

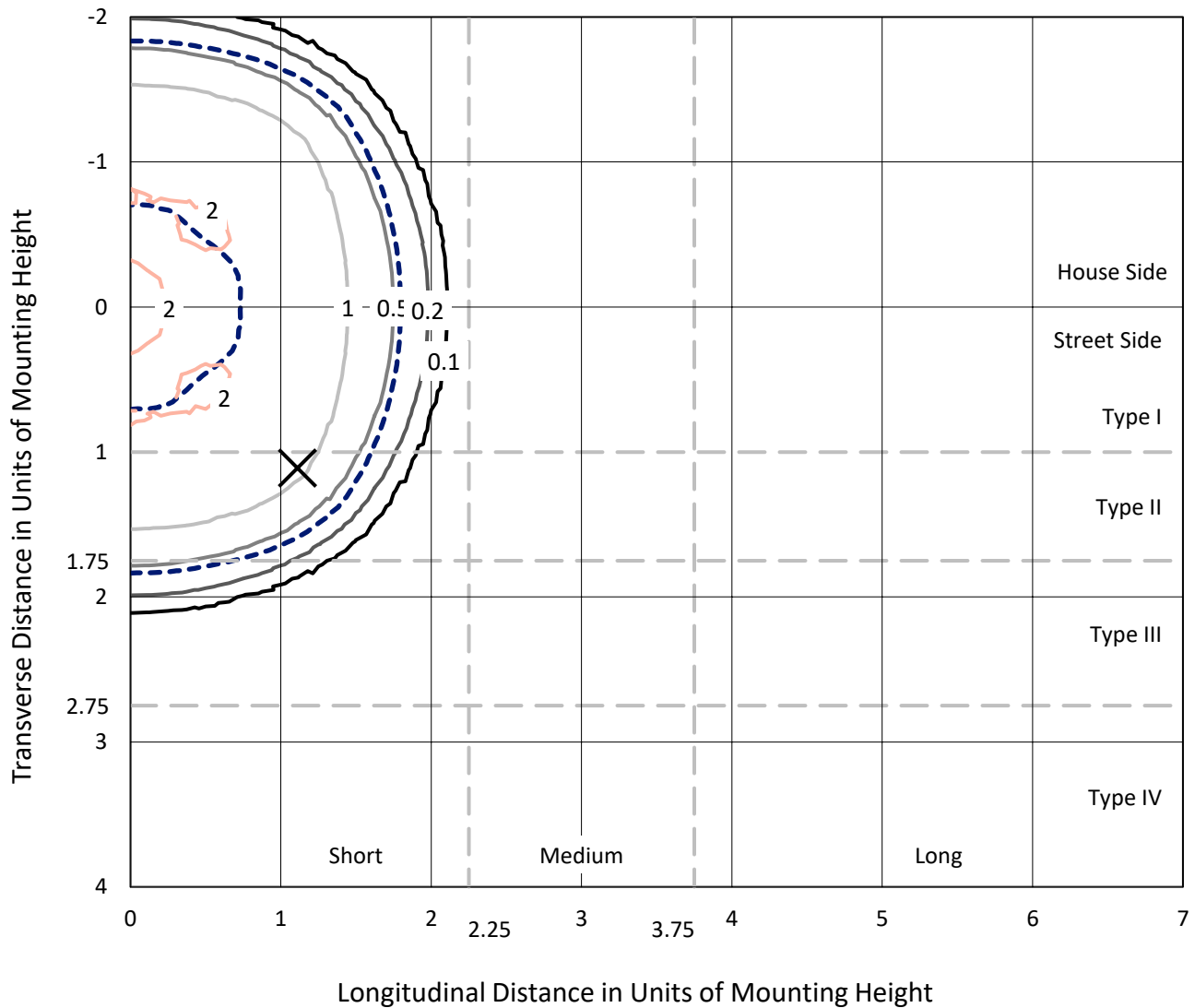


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

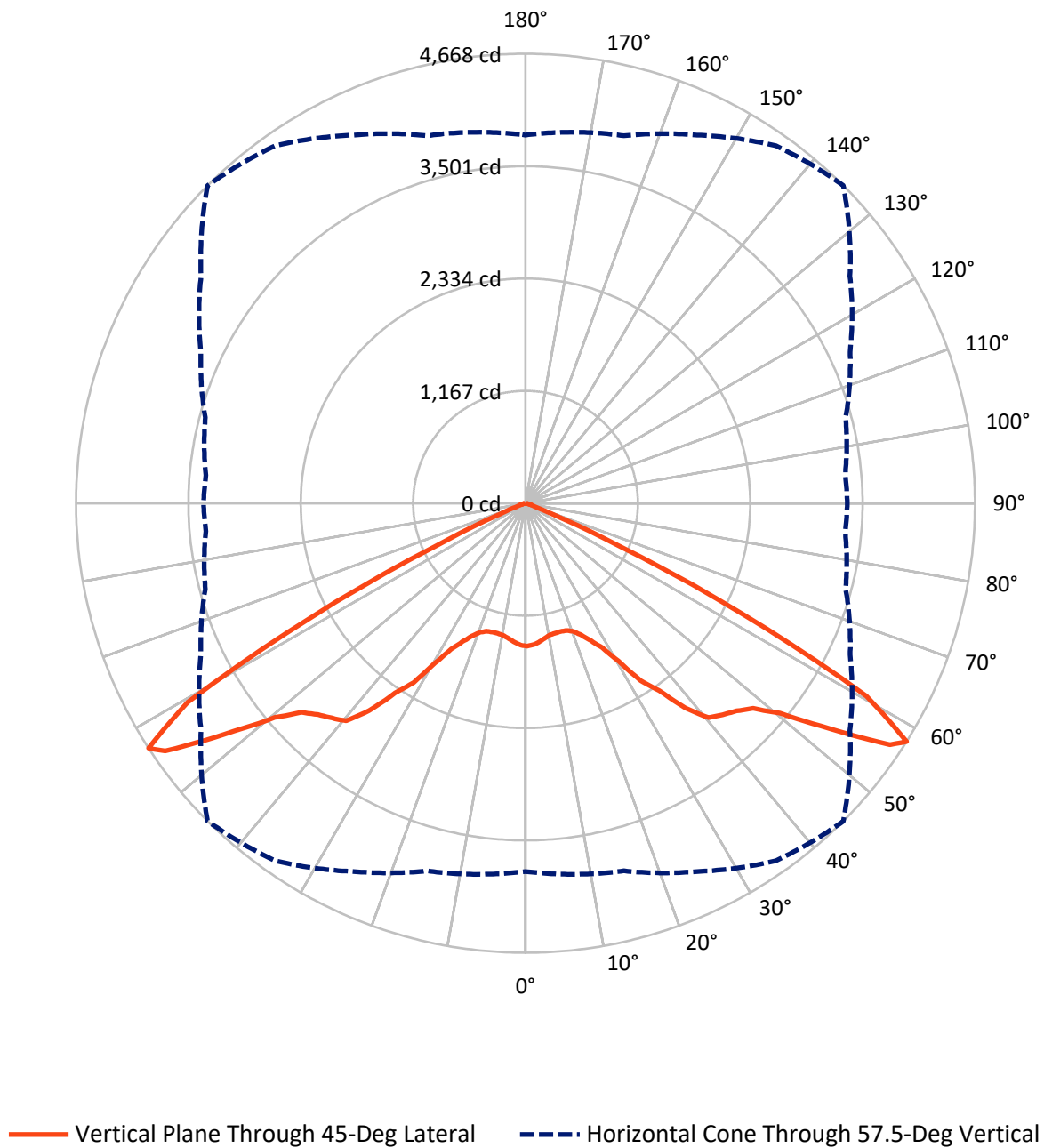


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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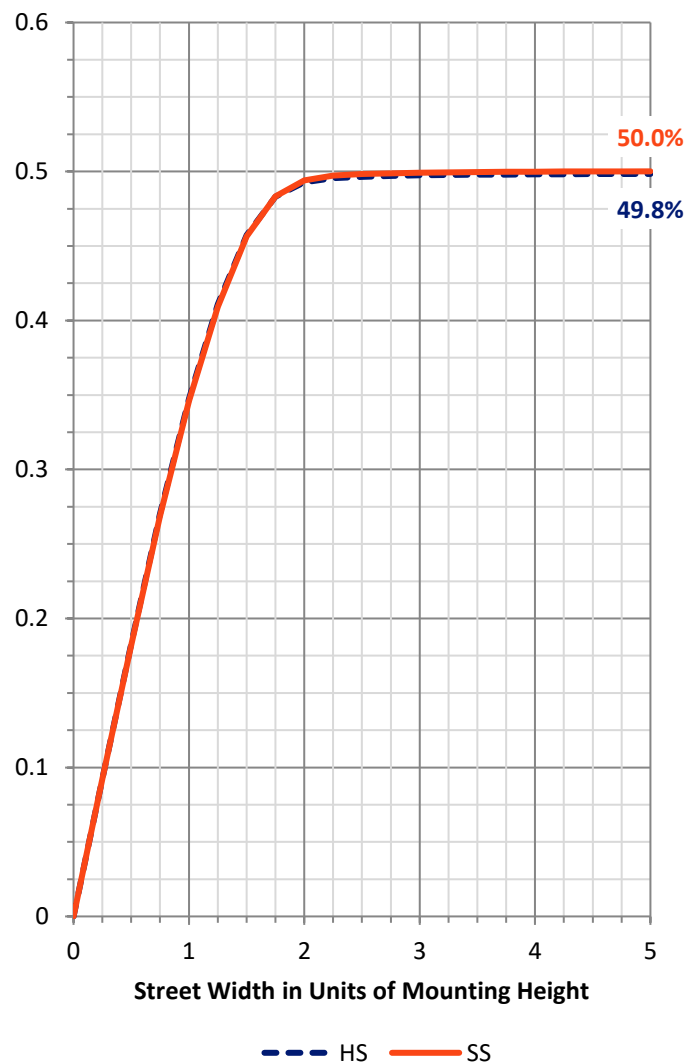
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.0	0.0	4786.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4786.0	0.0	4786.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9572.0	0.0	9572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.4
10°-20°	394.4	4.1
20°-30°	728.0	7.6
30°-40°	1431.6	15.0
40°-50°	2331.7	24.4
50°-60°	3325.3	34.7
60°-70°	1151.3	12.0
70°-80°	61.8	0.6
80°-90°	11.6	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°	9572.0	100.0
0°-180°	9572.0	100.0

Coefficient of Utilization



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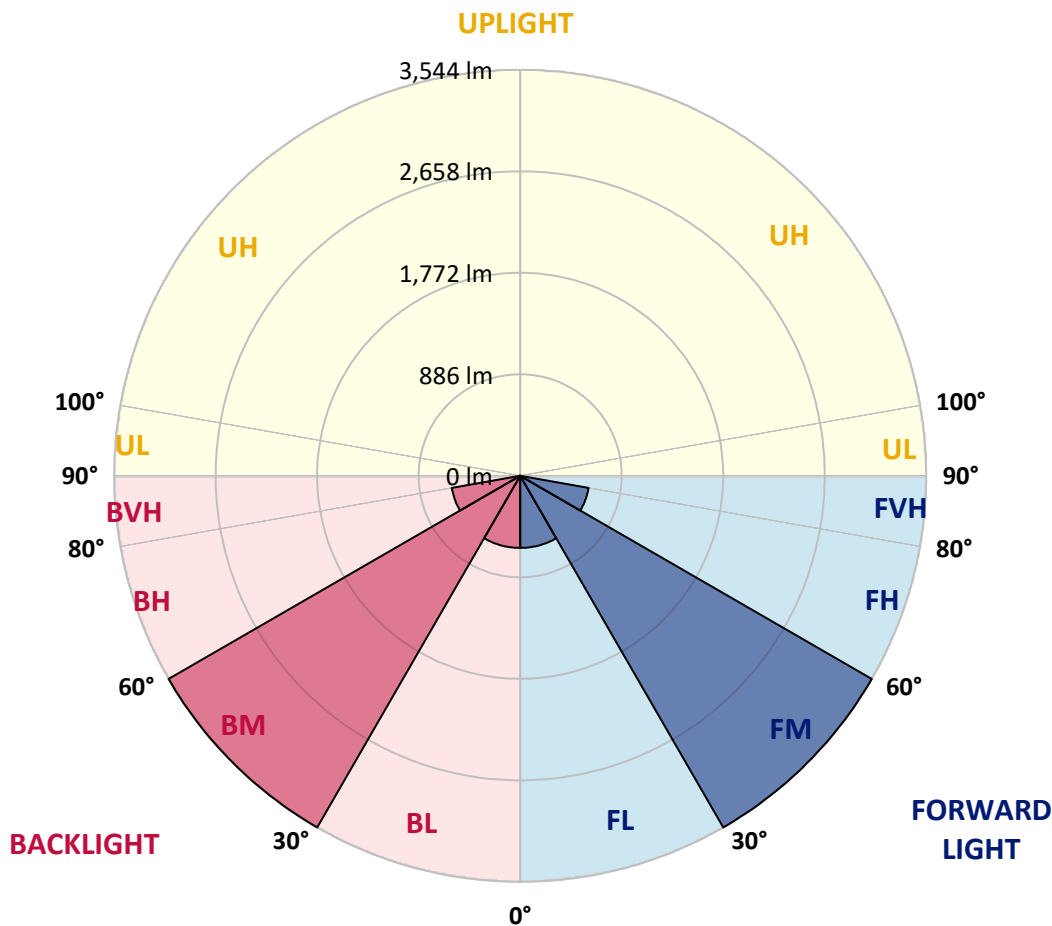
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.4	6.6			
FM	(30°-60°)	3544.3	37.0			
FH	(60°-80°)	606.5	6.3			G0/660
FVH	(80°-90°)	5.8	0.1			G0/10
BL	(0°-30°)	629.4	6.6	B2/1000		
BM	(30°-60°)	3544.3	37.0	B3/5000		
BH	(60°-80°)	606.5	6.3	B2/1000		G0/660
BVH	(80°-90°)	5.8	0.1			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°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1480.7	1488.7	1478.7	1474.7	1472.7	1472.7	1466.8	1466.8	1464.8	1466.8	1458.8
5°	1456.8	1464.8	1464.8	1462.8	1450.8	1448.8	1442.8	1438.8	1440.8	1432.8	1438.8
7.5°	1432.8	1438.8	1430.8	1428.8	1424.8	1416.9	1414.9	1396.9	1398.9	1398.9	1402.9
10°	1428.8	1426.8	1414.9	1404.9	1392.9	1390.9	1384.9	1380.9	1380.9	1379.0	1384.9
12.5°	1428.8	1418.9	1416.9	1394.9	1375.0	1382.9	1367.0	1357.0	1371.0	1375.0	1382.9
15°	1426.8	1436.8	1402.9	1392.9	1379.0	1380.9	1367.0	1357.0	1365.0	1369.0	1375.0
17.5°	1438.8	1432.8	1422.9	1402.9	1396.9	1388.9	1371.0	1363.0	1363.0	1373.0	1375.0
20°	1470.7	1454.8	1434.8	1424.8	1430.8	1420.9	1398.9	1369.0	1377.0	1384.9	1390.9
22.5°	1500.7	1488.7	1474.7	1468.8	1502.7	1486.7	1448.8	1414.9	1402.9	1416.9	1426.8
25°	1558.6	1558.6	1532.6	1540.6	1578.5	1580.5	1536.6	1476.7	1468.8	1474.7	1478.7
27.5°	1676.3	1682.3	1660.3	1668.3	1684.3	1698.2	1660.3	1610.4	1592.5	1590.5	1596.5
30°	1804.0	1816.0	1814.0	1847.9	1893.8	1901.8	1845.9	1764.1	1710.2	1700.2	1708.2
32.5°	1971.6	1977.6	1973.6	2013.5	2137.3	2195.1	2049.5	1933.7	1861.9	1879.8	1861.9
35°	2286.9	2281.0	2237.1	2245.0	2346.8	2388.7	2249.0	2175.2	2141.3	2177.2	2169.2
37.5°	2558.3	2536.4	2500.5	2552.4	2658.1	2696.0	2550.4	2420.6	2358.8	2418.7	2444.6
40°	2787.8	2732.0	2682.1	2734.0	2875.6	2927.5	2714.0	2608.2	2584.3	2628.2	2684.1
42.5°	2981.4	2945.5	2879.6	2883.6	2977.4	3001.4	2829.7	2767.9	2743.9	2813.8	2841.7
45°	3119.1	3085.2	3023.3	3019.3	3091.2	3075.2	2921.5	2879.6	2893.6	2939.5	2953.5
47.5°	3188.9	3206.9	3171.0	3181.0	3218.9	3181.0	3059.2	3059.2	3027.3	3055.2	3041.3
50°	3390.5	3334.6	3380.5	3380.5	3420.4	3424.4	3302.7	3258.8	3173.0	3125.1	3125.1
52.5°	3626.0	3630.0	3647.9	3713.8	3781.6	3839.5	3665.9	3478.3	3334.6	3272.8	3264.8
55°	3819.6	3859.5	3931.3	4055.0	4250.6	4330.4	4031.1	3695.8	3520.2	3424.4	3404.5
56°	3925.3	3887.4	4011.1	4180.8	4436.2	4540.0	4091.0	3739.7	3546.2	3438.4	3436.4
57.5°	3823.5	3865.5	3951.3	4218.7	4532.0	4667.7	4112.9	3719.8	3442.4	3332.6	3342.6
60°	3019.3	3059.2	3175.0	3474.3	3965.2	4071.0	3480.3	3067.2	2819.8	2662.1	2664.1
62.5°	1708.2	1738.2	1828.0	2105.3	2410.7	2512.4	2169.2	1893.8	1722.2	1634.4	1606.4
65°	628.6	616.6	630.6	772.3	959.9	1045.7	902.0	762.3	672.5	640.6	628.6
67.5°	235.5	217.5	203.5	217.5	273.4	289.4	265.4	221.5	207.5	213.5	217.5
70°	145.7	137.7	109.8	103.8	101.8	99.8	105.8	111.8	127.7	149.7	153.7
72.5°	101.8	95.8	77.8	73.8	69.8	67.8	77.8	85.8	99.8	115.7	117.7
75°	39.9	41.9	39.9	43.9	45.9	47.9	55.9	61.9	67.8	67.8	65.9
77.5°	8.0	8.0	12.0	16.0	20.0	25.9	37.9	43.9	45.9	43.9	37.9
80°	0.0	0.0	4.0	8.0	16.0	22.0	33.9	37.9	41.9	37.9	29.9
82.5°	0.0	0.0	4.0	10.0	16.0	20.0	31.9	39.9	45.9	41.9	31.9
85°	0.0	0.0	4.0	8.0	12.0	14.0	14.0	10.0	10.0	6.0	4.0
87.5°	0.0	0.0	0.0	0.0	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)