

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: P527861

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527861
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-SA2D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 6448 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - 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

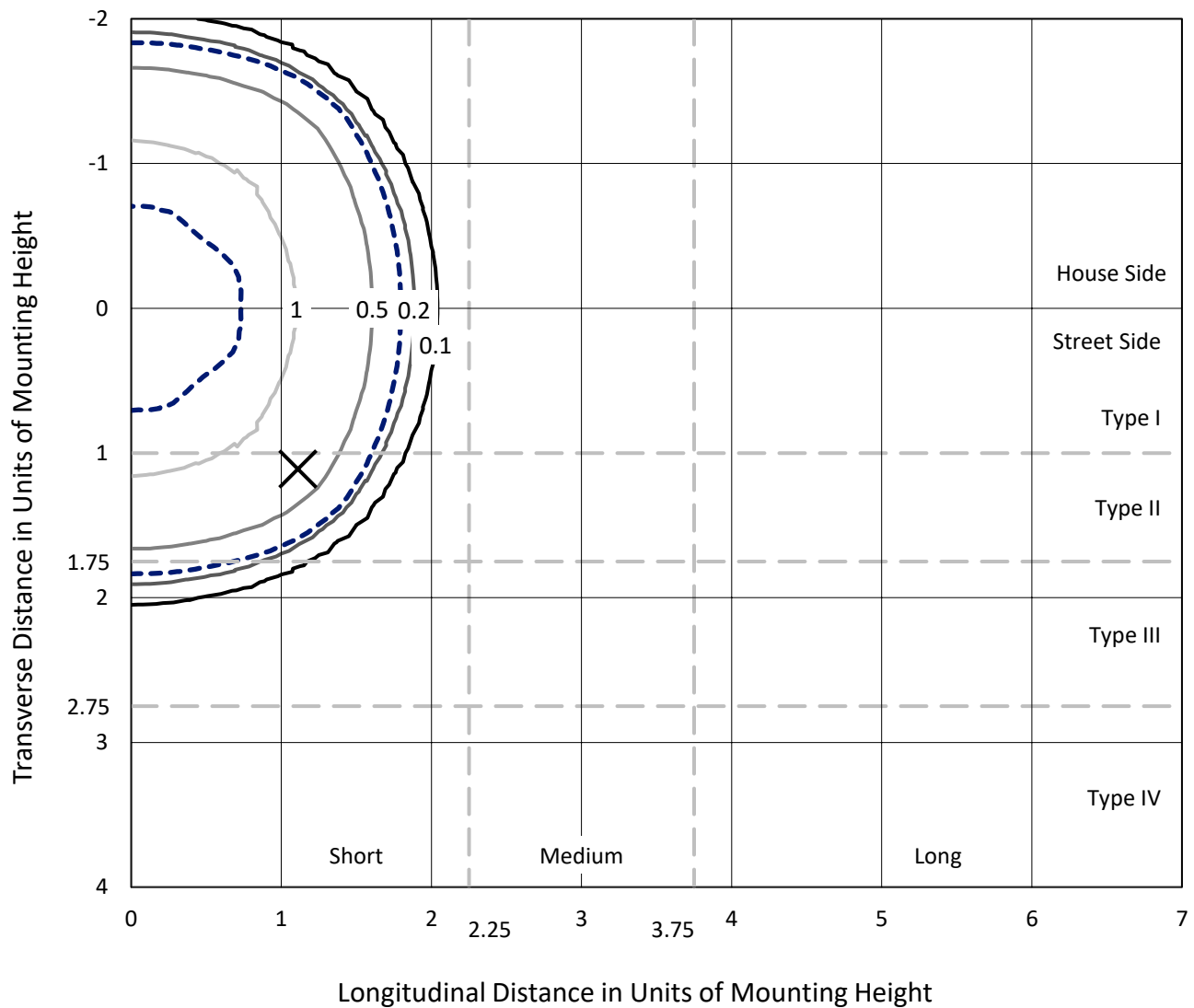


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Iso-Footcandle Lines of Horizontal Illumination

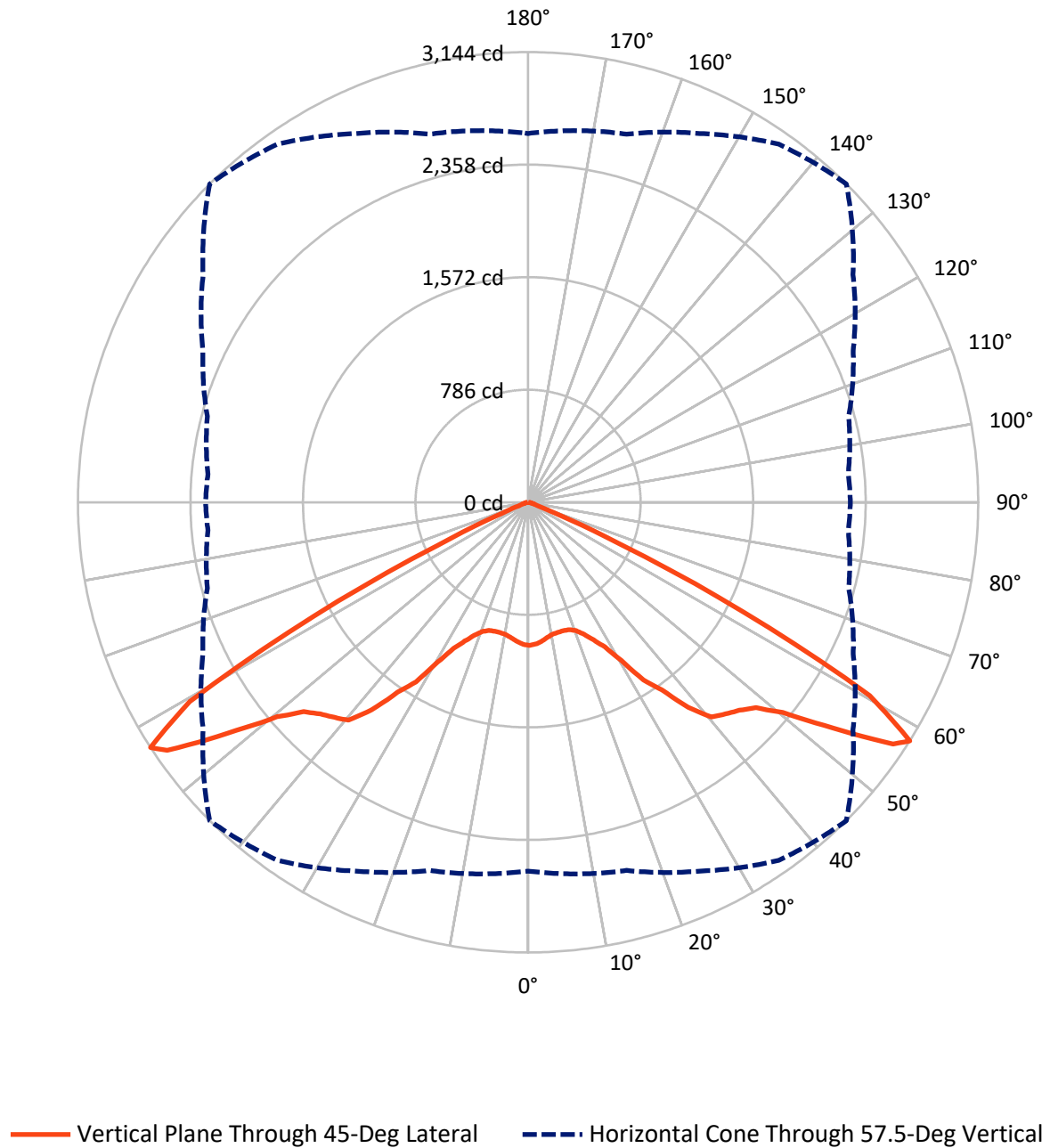
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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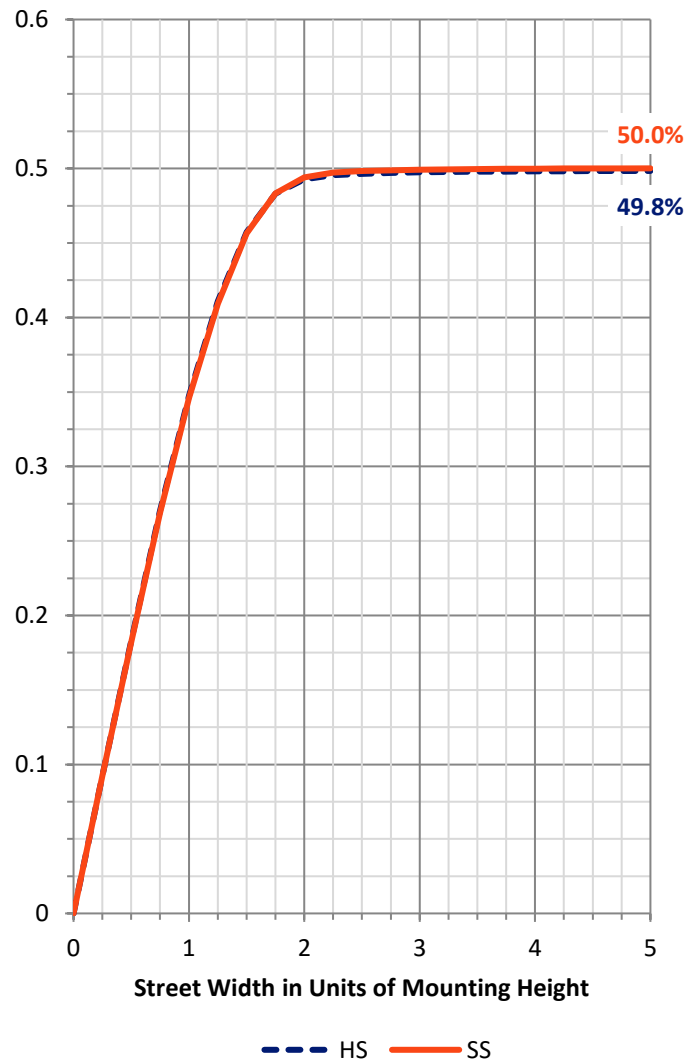
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3224.0	0.0	3224.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3224.0	0.0	3224.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6448.0	0.0	6448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	1.4
10°-20°	265.7	4.1
20°-30°	490.4	7.6
30°-40°	964.4	15.0
40°-50°	1570.7	24.4
50°-60°	2240.0	34.7
60°-70°	775.5	12.0
70°-80°	41.6	0.6
80°-90°	7.8	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°	6448.0	100.0
0°-180°	6448.0	100.0

Coefficient of Utilization



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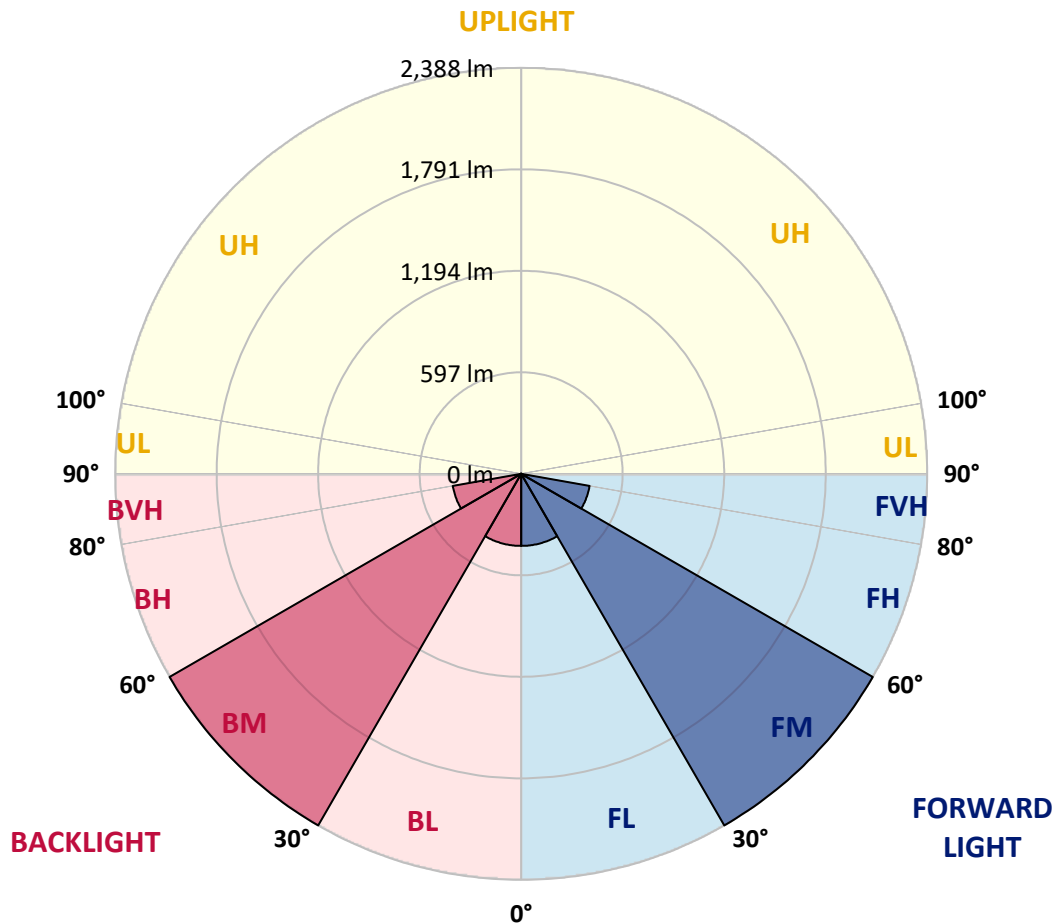
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.0	6.6			
FM	(30°-60°)	2387.5	37.0			
FH	(60°-80°)	408.6	6.3			G0/660
FVH	(80°-90°)	3.9	0.1			G0/10
BL	(0°-30°)	424.0	6.6	B1/500		
BM	(30°-60°)	2387.5	37.0	B2/2500		
BH	(60°-80°)	408.6	6.3	B1/500		G0/660
BVH	(80°-90°)	3.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	997.5	1002.8	996.1	993.4	992.1	992.1	988.1	988.1	986.7	988.1	982.7
5°	981.3	986.7	986.7	985.4	977.3	976.0	971.9	969.2	970.6	965.2	969.2
7.5°	965.2	969.2	963.9	962.5	959.8	954.4	953.1	941.0	942.3	942.3	945.0
10°	962.5	961.2	953.1	946.4	938.3	937.0	932.9	930.2	930.2	928.9	932.9
12.5°	962.5	955.8	954.4	939.7	926.2	931.6	920.8	914.1	923.5	926.2	931.6
15°	961.2	967.9	945.0	938.3	928.9	930.2	920.8	914.1	919.5	922.2	926.2
17.5°	969.2	965.2	958.5	945.0	941.0	935.6	923.5	918.2	918.2	924.9	926.2
20°	990.7	980.0	966.5	959.8	963.9	957.1	942.3	922.2	927.6	932.9	937.0
22.5°	1010.9	1002.8	993.4	989.4	1012.3	1001.5	976.0	953.1	945.0	954.4	961.2
25°	1049.9	1049.9	1032.4	1037.8	1063.3	1064.7	1035.1	994.8	989.4	993.4	996.1
27.5°	1129.2	1133.2	1118.4	1123.8	1134.6	1144.0	1118.4	1084.8	1072.7	1071.4	1075.4
30°	1215.2	1223.3	1222.0	1244.8	1275.7	1281.1	1243.5	1188.4	1152.1	1145.3	1150.7
32.5°	1328.2	1332.2	1329.5	1356.4	1439.7	1478.7	1380.6	1302.6	1254.2	1266.3	1254.2
35°	1540.6	1536.5	1506.9	1512.3	1580.9	1609.1	1515.0	1465.3	1442.4	1466.6	1461.2
37.5°	1723.4	1708.6	1684.4	1719.3	1790.6	1816.1	1718.0	1630.6	1589.0	1629.3	1646.8
40°	1878.0	1840.3	1806.7	1841.7	1937.1	1972.1	1828.2	1757.0	1740.9	1770.4	1808.1
42.5°	2008.4	1984.2	1939.8	1942.5	2005.7	2021.8	1906.2	1864.5	1848.4	1895.4	1914.3
45°	2101.1	2078.3	2036.6	2033.9	2082.3	2071.6	1968.0	1939.8	1949.2	1980.1	1989.6
47.5°	2148.2	2160.3	2136.1	2142.8	2168.3	2142.8	2060.8	2060.8	2039.3	2058.1	2048.7
50°	2284.0	2246.3	2277.2	2277.2	2304.1	2306.8	2224.8	2195.2	2137.4	2105.2	2105.2
52.5°	2442.6	2445.3	2457.4	2501.7	2547.4	2586.4	2469.5	2343.1	2246.3	2204.6	2199.3
55°	2573.0	2599.9	2648.3	2731.6	2863.3	2917.1	2715.5	2489.6	2371.3	2306.8	2293.4
56°	2644.2	2618.7	2702.0	2816.3	2988.4	3058.3	2755.8	2519.2	2388.8	2316.2	2314.9
57.5°	2575.7	2603.9	2661.7	2841.8	3052.9	3144.3	2770.6	2505.8	2318.9	2245.0	2251.7
60°	2033.9	2060.8	2138.8	2340.4	2671.1	2742.4	2344.4	2066.2	1899.5	1793.3	1794.6
62.5°	1150.7	1170.9	1231.4	1418.2	1623.9	1692.5	1461.2	1275.7	1160.1	1101.0	1082.2
65°	423.5	415.4	424.8	520.2	646.6	704.4	607.6	513.5	453.0	431.5	423.5
67.5°	158.6	146.5	137.1	146.5	184.2	194.9	178.8	149.2	139.8	143.8	146.5
70°	98.1	92.8	73.9	69.9	68.6	67.2	71.2	75.3	86.0	100.8	103.5
72.5°	68.6	64.5	52.4	49.7	47.1	45.7	52.4	57.8	67.2	78.0	79.3
75°	26.9	28.2	26.9	29.6	30.9	32.3	37.6	41.7	45.7	45.7	44.4
77.5°	5.4	5.4	8.1	10.8	13.4	17.5	25.5	29.6	30.9	29.6	25.5
80°	0.0	0.0	2.7	5.4	10.8	14.8	22.9	25.5	28.2	25.5	20.2
82.5°	0.0	0.0	2.7	6.7	10.8	13.4	21.5	26.9	30.9	28.2	21.5
85°	0.0	0.0	2.7	5.4	8.1	9.4	9.4	6.7	6.7	4.0	2.7
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)