

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: P529031

Luminaire Tested: **GALN-SA4A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529031
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-SA4A-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 7499 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

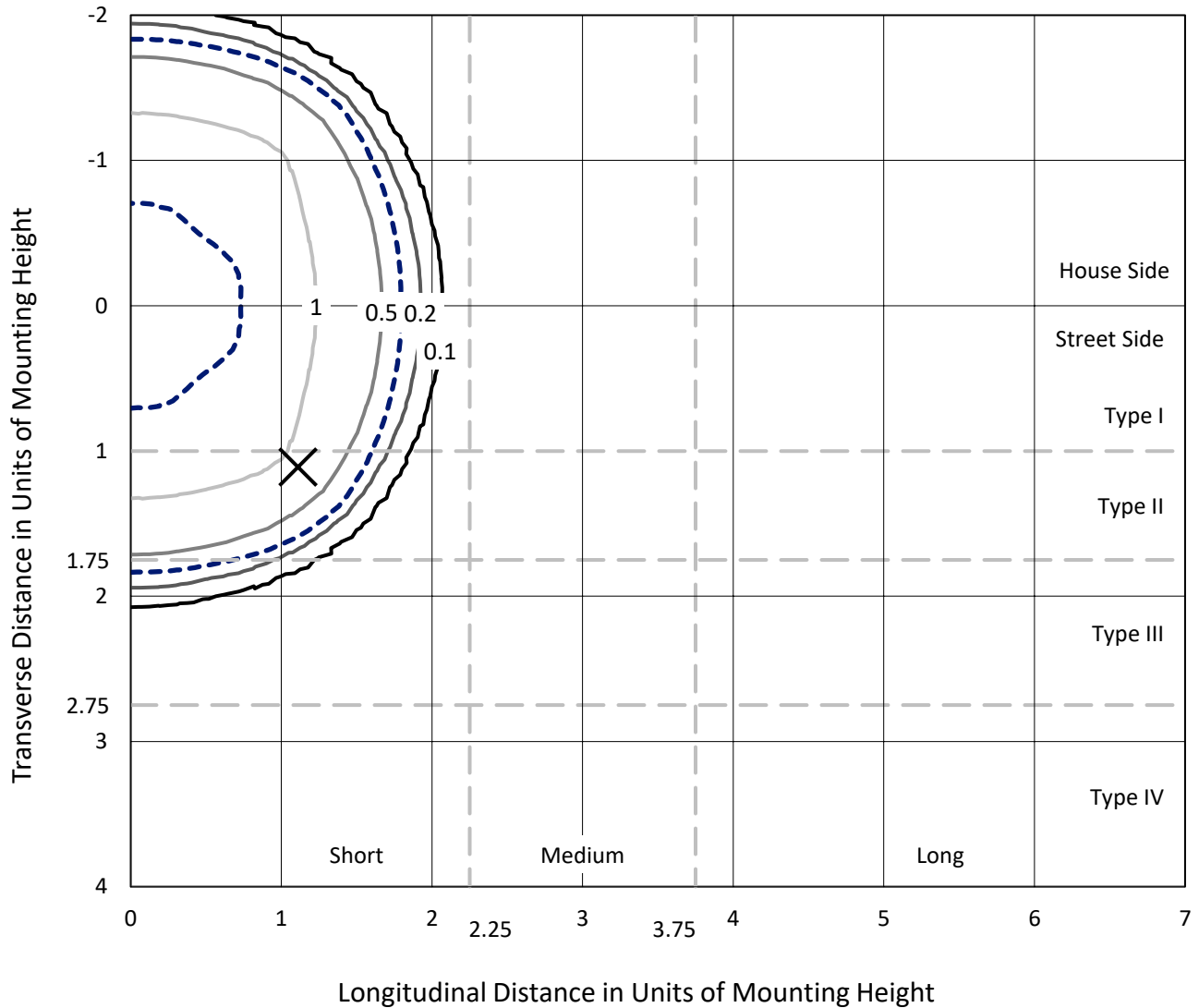
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

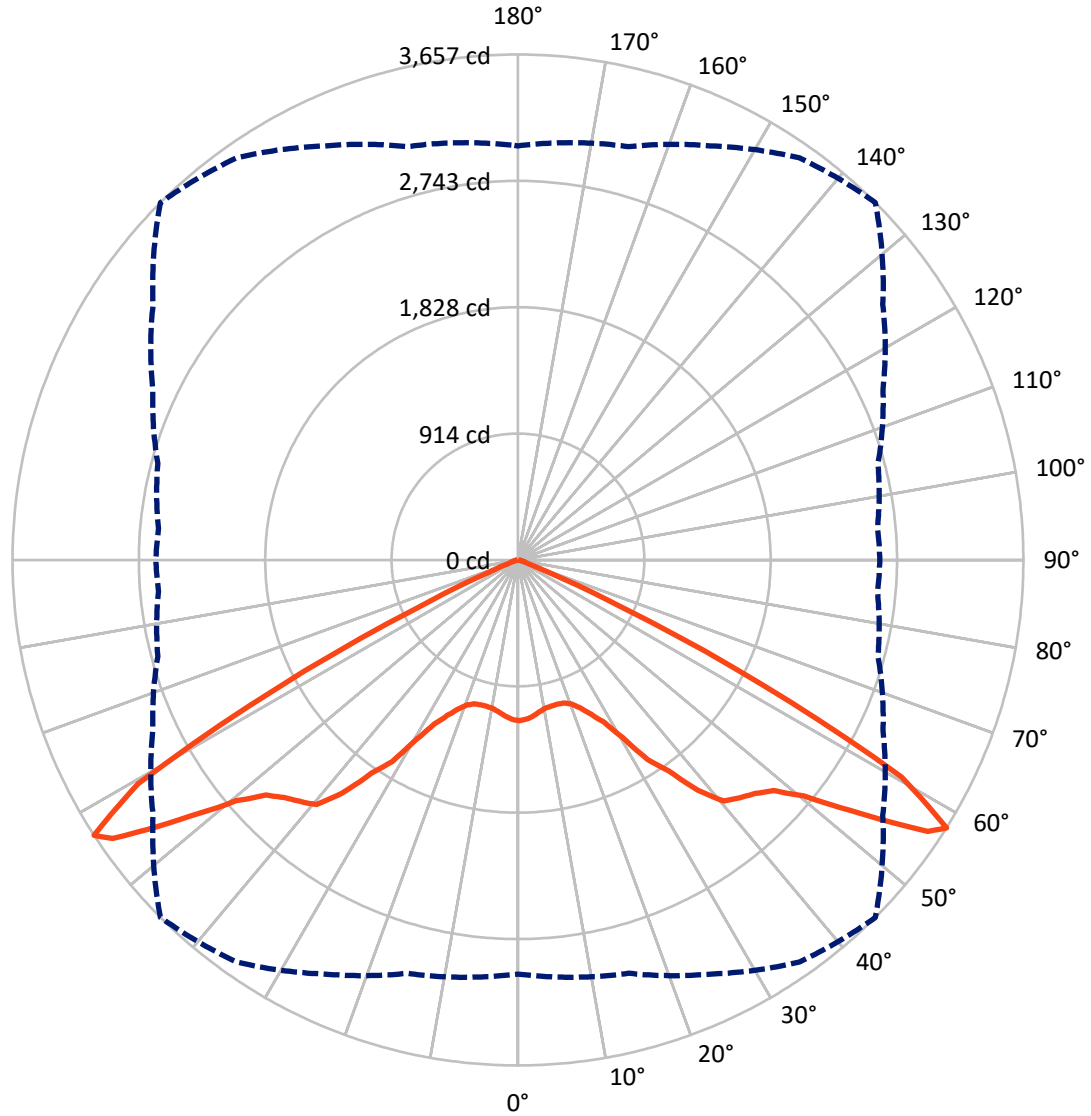
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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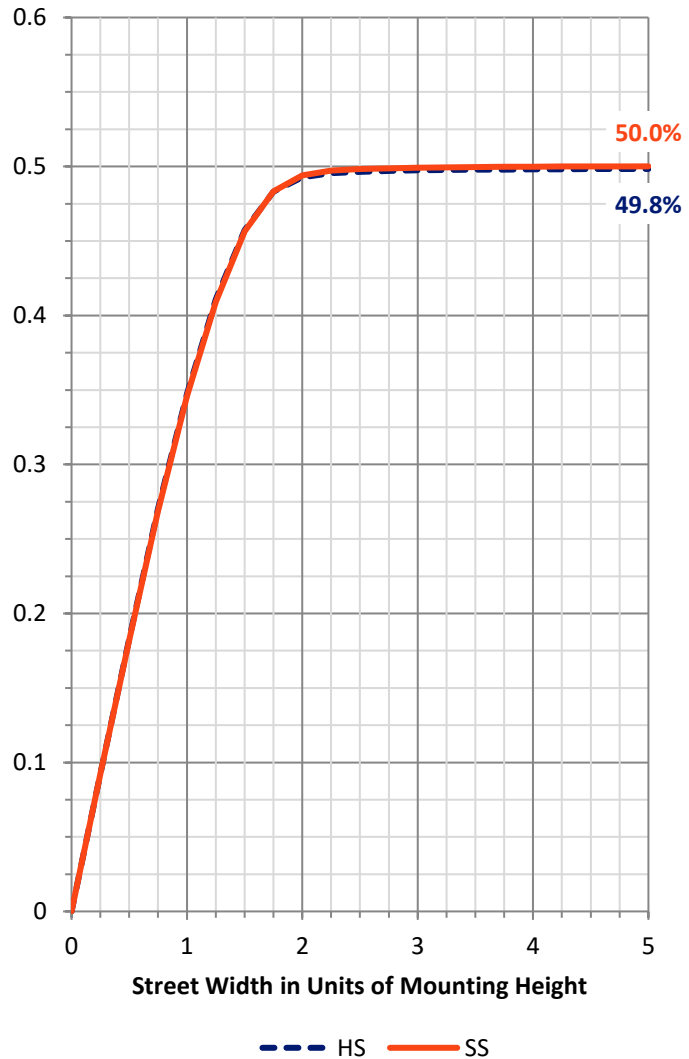
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3749.5	0.0	3749.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3749.5	0.0	3749.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7499.0	0.0	7499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.4
10°-20°	309.0	4.1
20°-30°	570.3	7.6
30°-40°	1121.6	15.0
40°-50°	1826.7	24.4
50°-60°	2605.1	34.7
60°-70°	902.0	12.0
70°-80°	48.4	0.6
80°-90°	9.1	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°	7499.0	100.0
0°-180°	7499.0	100.0

Coefficient of Utilization

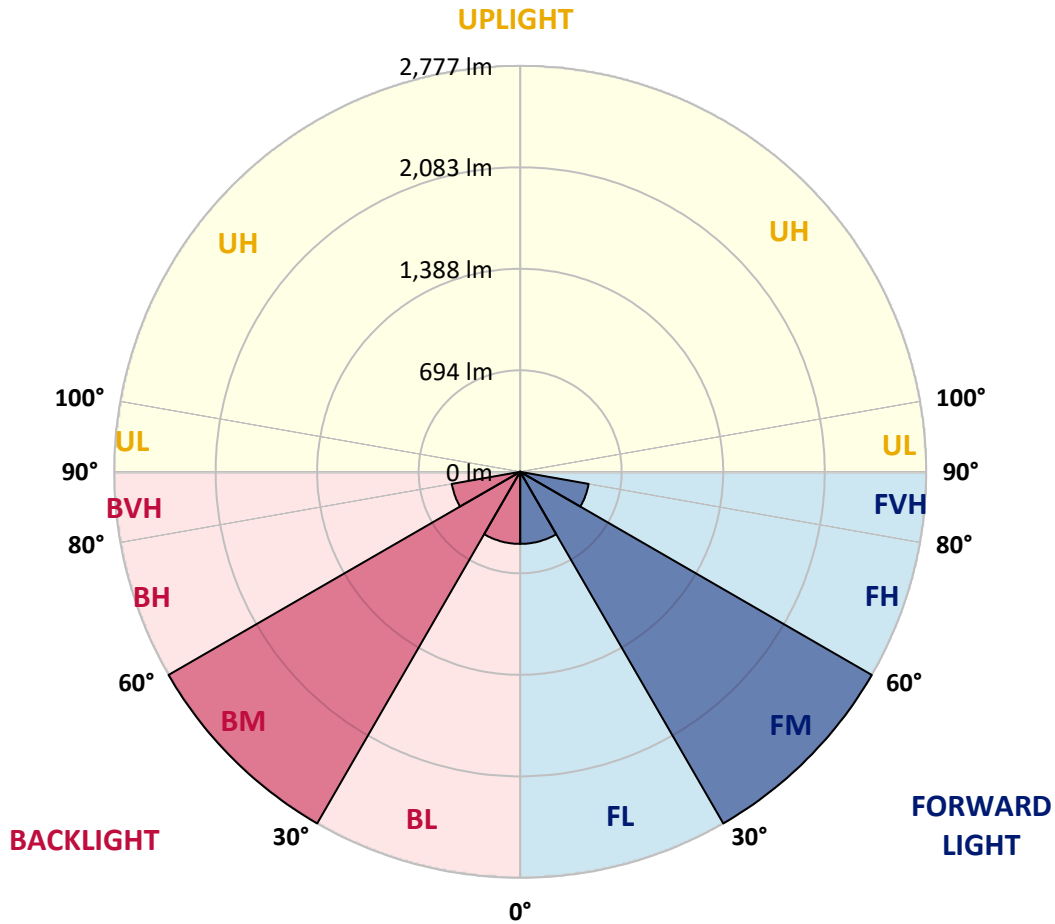


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.1	6.6			
FM (30°-60°)	2776.7	37.0			
FH (60°-80°)	475.2	6.3			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	493.1	6.6	B1/500		
BM (30°-60°)	2776.7	37.0	B3/5000		
BH (60°-80°)	475.2	6.3	B1/500		G0/660
BVH (80°-90°)	4.5	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°	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2
2.5°	1160.0	1166.3	1158.5	1155.4	1153.8	1153.8	1149.1	1149.1	1147.5	1149.1	1142.8
5°	1141.3	1147.5	1147.5	1146.0	1136.6	1135.0	1130.3	1127.2	1128.8	1122.5	1127.2
7.5°	1122.5	1127.2	1121.0	1119.4	1116.3	1110.0	1108.5	1094.4	1095.9	1095.9	1099.1
10°	1119.4	1117.8	1108.5	1100.6	1091.3	1089.7	1085.0	1081.9	1081.9	1080.3	1085.0
12.5°	1119.4	1111.6	1110.0	1092.8	1077.2	1083.4	1070.9	1063.1	1074.1	1077.2	1083.4
15°	1117.8	1125.7	1099.1	1091.3	1080.3	1081.9	1070.9	1063.1	1069.4	1072.5	1077.2
17.5°	1127.2	1122.5	1114.7	1099.1	1094.4	1088.1	1074.1	1067.8	1067.8	1075.6	1077.2
20°	1152.2	1139.7	1124.1	1116.3	1121.0	1113.1	1095.9	1072.5	1078.7	1085.0	1089.7
22.5°	1175.7	1166.3	1155.4	1150.7	1177.2	1164.7	1135.0	1108.5	1099.1	1110.0	1117.8
25°	1221.0	1221.0	1200.7	1206.9	1236.7	1238.2	1203.8	1156.9	1150.7	1155.4	1158.5
27.5°	1313.3	1318.0	1300.8	1307.0	1319.5	1330.5	1300.8	1261.7	1247.6	1246.0	1250.7
30°	1413.3	1422.7	1421.1	1447.7	1483.7	1489.9	1446.1	1382.1	1339.8	1332.0	1338.3
32.5°	1544.6	1549.3	1546.2	1577.5	1674.4	1719.7	1605.6	1514.9	1458.7	1472.7	1458.7
35°	1791.7	1787.0	1752.6	1758.8	1838.6	1871.4	1762.0	1704.1	1677.5	1705.7	1699.4
37.5°	2004.3	1987.1	1958.9	1999.6	2082.5	2112.2	1998.0	1896.4	1847.9	1894.8	1915.2
40°	2184.1	2140.3	2101.2	2141.9	2252.9	2293.5	2126.2	2043.4	2024.6	2059.0	2102.8
42.5°	2335.7	2307.6	2256.0	2259.1	2332.6	2351.4	2216.9	2168.4	2149.7	2204.4	2226.3
45°	2443.6	2417.0	2368.6	2365.4	2421.7	2409.2	2288.8	2256.0	2266.9	2302.9	2313.8
47.5°	2498.3	2512.4	2484.3	2492.1	2521.8	2492.1	2396.7	2396.7	2371.7	2393.6	2382.6
50°	2656.2	2612.5	2648.4	2648.4	2679.7	2682.8	2587.4	2553.0	2485.8	2448.3	2448.3
52.5°	2840.7	2843.8	2857.9	2909.5	2962.7	3008.0	2872.0	2725.0	2612.5	2564.0	2557.7
55°	2992.4	3023.6	3079.9	3176.8	3330.1	3392.6	3158.1	2895.4	2757.8	2682.8	2667.2
56°	3075.2	3045.5	3142.4	3275.3	3475.4	3556.7	3205.0	2929.8	2778.2	2693.7	2692.2
57.5°	2995.5	3028.3	3095.5	3305.0	3550.5	3656.8	3222.2	2914.2	2696.9	2610.9	2618.7
60°	2365.4	2396.7	2487.4	2721.9	3106.5	3189.3	2726.6	2403.0	2209.1	2085.6	2087.1
62.5°	1338.3	1361.7	1432.1	1649.4	1888.6	1968.3	1699.4	1483.7	1349.2	1280.4	1258.5
65°	492.5	483.1	494.0	605.0	752.0	819.2	706.7	597.2	526.9	501.9	492.5
67.5°	184.5	170.4	159.5	170.4	214.2	226.7	207.9	173.5	162.6	167.3	170.4
70°	114.1	107.9	86.0	81.3	79.7	78.2	82.9	87.6	100.1	117.3	120.4
72.5°	79.7	75.0	61.0	57.8	54.7	53.2	61.0	67.2	78.2	90.7	92.2
75°	31.3	32.8	31.3	34.4	36.0	37.5	43.8	48.5	53.2	53.2	51.6
77.5°	6.3	6.3	9.4	12.5	15.6	20.3	29.7	34.4	36.0	34.4	29.7
80°	0.0	0.0	3.1	6.3	12.5	17.2	26.6	29.7	32.8	29.7	23.5
82.5°	0.0	0.0	3.1	7.8	12.5	15.6	25.0	31.3	36.0	32.8	25.0
85°	0.0	0.0	3.1	6.3	9.4	10.9	10.9	7.8	7.8	4.7	3.1
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)