

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: P528849

Luminaire Tested: **GALN-SA4A-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528849
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-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 7892 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

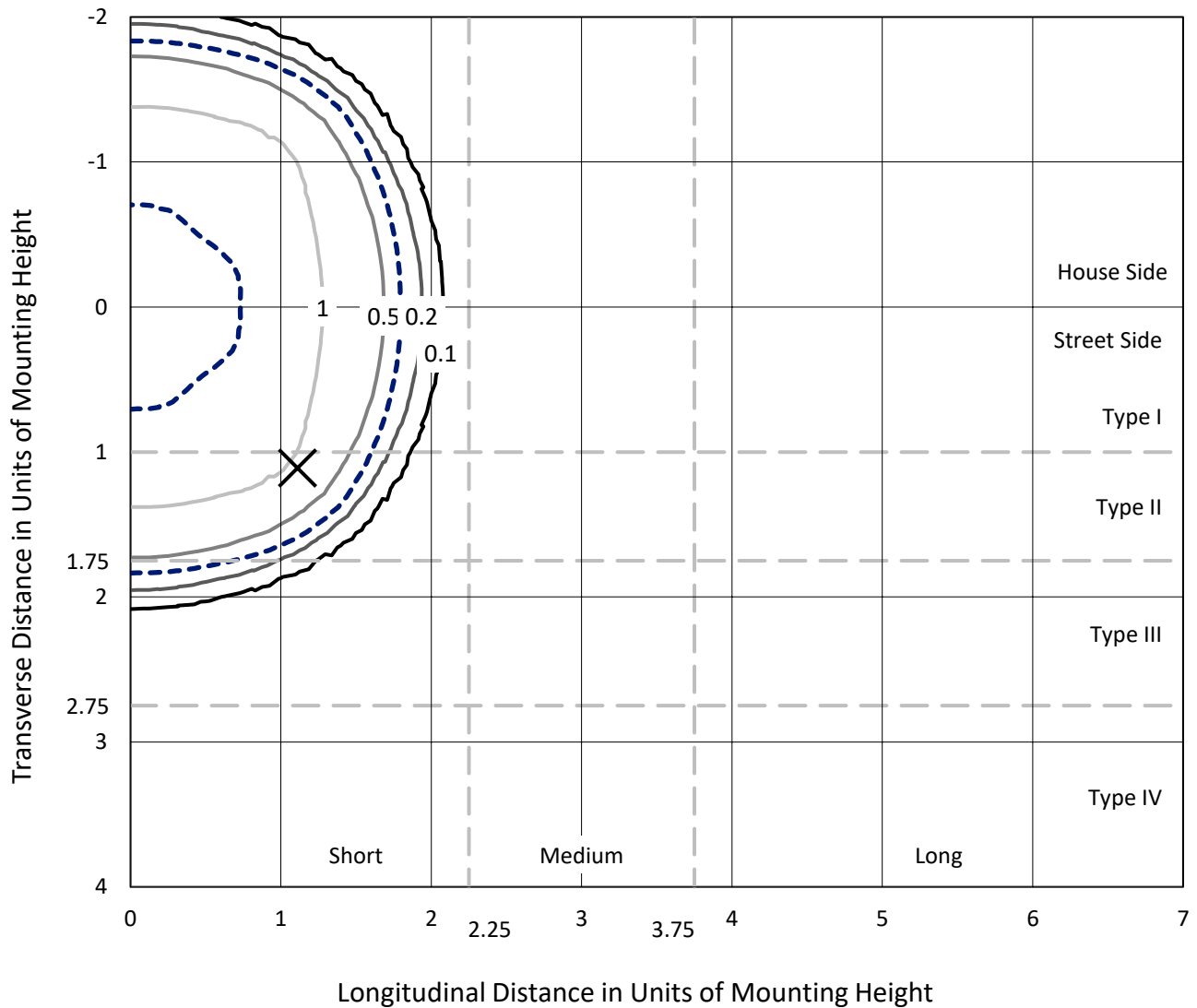
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

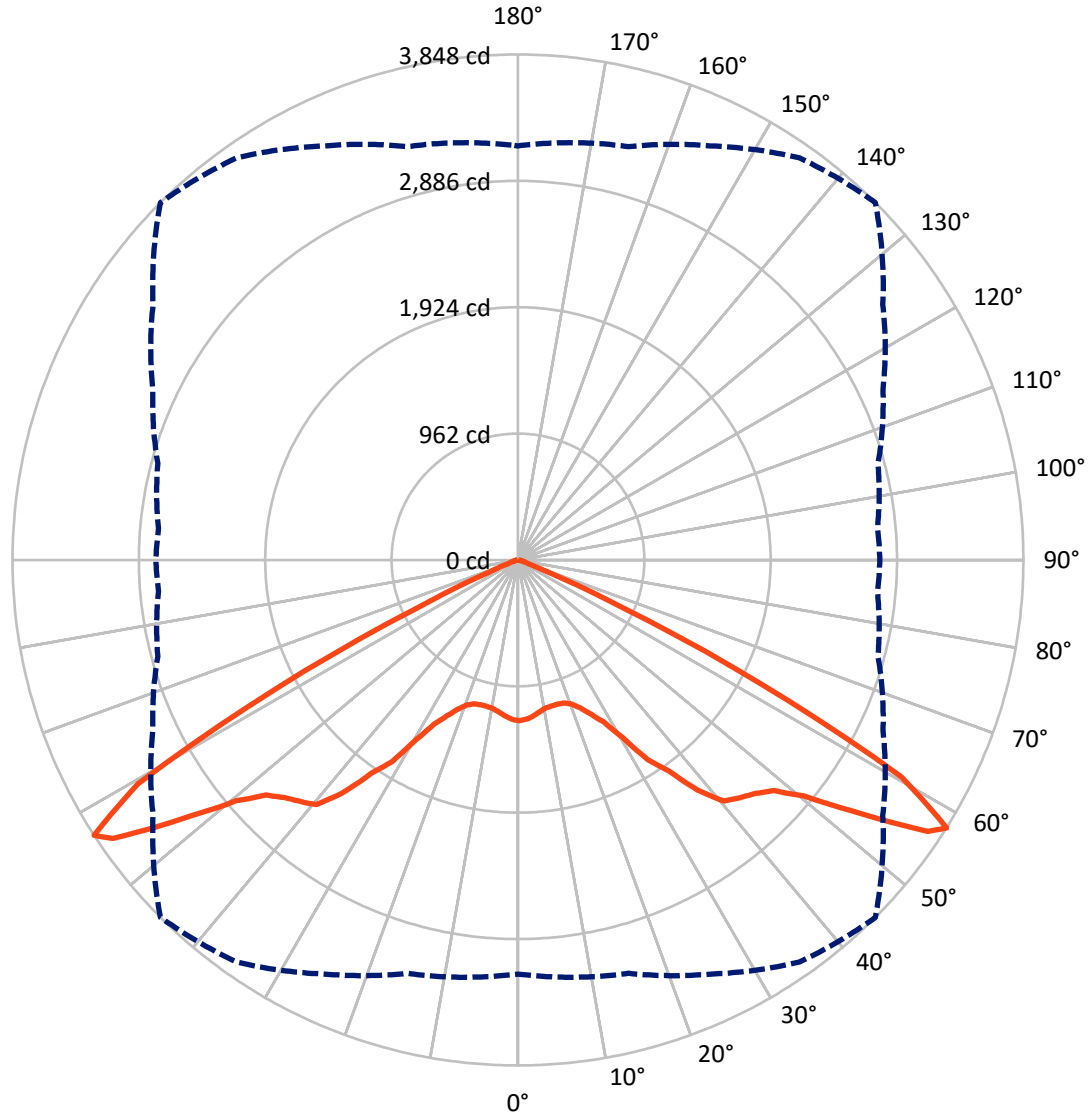
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	3946.0	0.0	3946.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3946.0	0.0	3946.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7892.0	0.0	7892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.4
10°-20°	325.2	4.1
20°-30°	600.2	7.6
30°-40°	1180.3	15.0
40°-50°	1922.4	24.4
50°-60°	2741.7	34.7
60°-70°	949.2	12.0
70°-80°	50.9	0.6
80°-90°	9.6	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°	7892.0	100.0
0°-180°	7892.0	100.0

Coefficient of Utilization

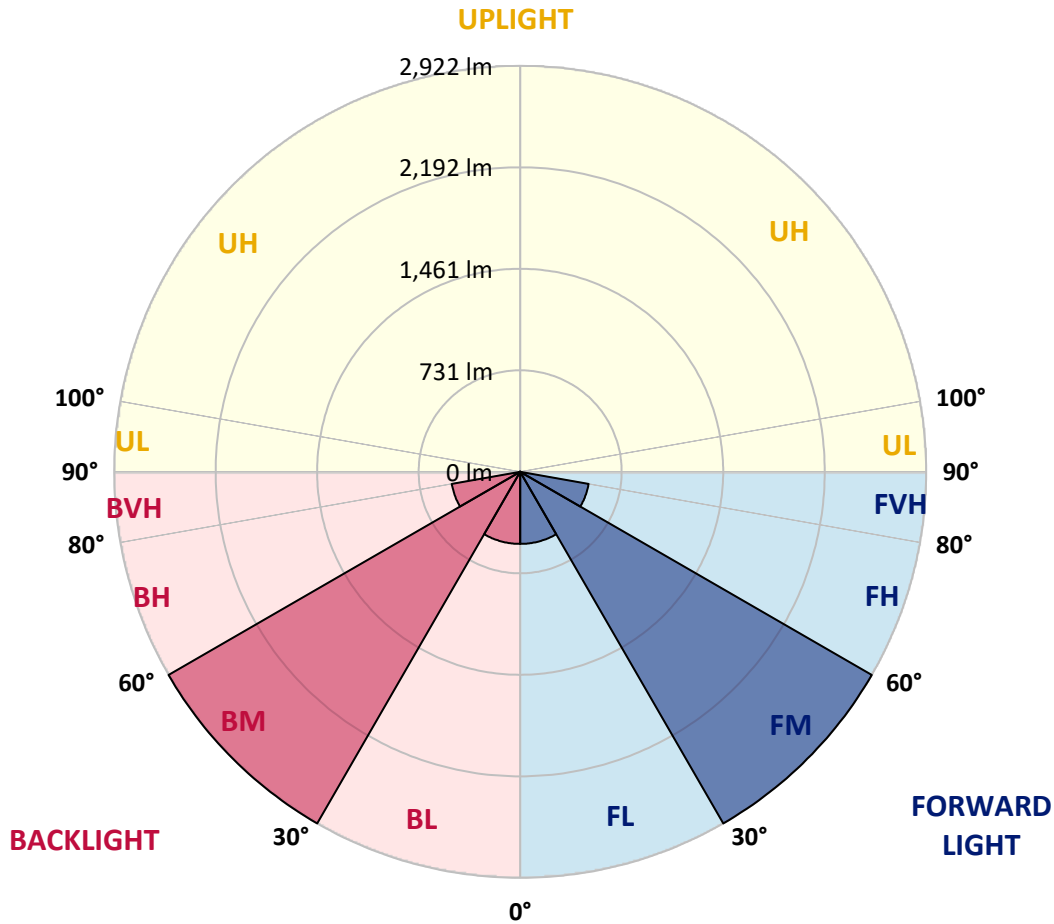


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.9	6.6			
FM (30°-60°)	2922.2	37.0			
FH (60°-80°)	500.1	6.3			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	518.9	6.6	B2/1000		
BM (30°-60°)	2922.2	37.0	B3/5000		
BH (60°-80°)	500.1	6.3	B2/1000		G0/660
BVH (80°-90°)	4.8	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°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1220.8	1227.4	1219.2	1215.9	1214.3	1214.3	1209.3	1209.3	1207.7	1209.3	1202.7
5°	1201.1	1207.7	1207.7	1206.0	1196.2	1194.5	1189.6	1186.3	1187.9	1181.4	1186.3
7.5°	1181.4	1186.3	1179.7	1178.1	1174.8	1168.2	1166.5	1151.7	1153.4	1153.4	1156.7
10°	1178.1	1176.4	1166.5	1158.3	1148.4	1146.8	1141.9	1138.6	1138.6	1136.9	1141.9
12.5°	1178.1	1169.8	1168.2	1150.1	1133.6	1140.2	1127.1	1118.8	1130.3	1133.6	1140.2
15°	1176.4	1184.6	1156.7	1148.4	1136.9	1138.6	1127.1	1118.8	1125.4	1128.7	1133.6
17.5°	1186.3	1181.4	1173.1	1156.7	1151.7	1145.2	1130.3	1123.8	1123.8	1132.0	1133.6
20°	1212.6	1199.5	1183.0	1174.8	1179.7	1171.5	1153.4	1128.7	1135.3	1141.9	1146.8
22.5°	1237.3	1227.4	1215.9	1211.0	1238.9	1225.8	1194.5	1166.5	1156.7	1168.2	1176.4
25°	1285.0	1285.0	1263.6	1270.2	1301.5	1303.1	1266.9	1217.6	1211.0	1215.9	1219.2
27.5°	1382.1	1387.0	1368.9	1375.5	1388.7	1400.2	1368.9	1327.8	1313.0	1311.3	1316.3
30°	1487.4	1497.3	1495.6	1523.6	1561.4	1568.0	1521.9	1454.5	1410.1	1401.8	1408.4
32.5°	1625.6	1630.5	1627.2	1660.1	1762.2	1809.9	1689.8	1594.3	1535.1	1549.9	1535.1
35°	1885.6	1880.6	1844.4	1851.0	1934.9	1969.5	1854.3	1793.4	1765.4	1795.1	1788.5
37.5°	2109.3	2091.2	2061.6	2104.4	2191.6	2222.9	2102.7	1995.8	1944.8	1994.2	2015.5
40°	2298.5	2252.5	2211.3	2254.1	2370.9	2413.7	2237.7	2150.5	2130.7	2166.9	2213.0
42.5°	2458.1	2428.5	2374.2	2377.5	2454.8	2474.6	2333.1	2282.1	2262.3	2319.9	2343.0
45°	2571.7	2543.7	2492.7	2489.4	2548.6	2535.5	2408.8	2374.2	2385.7	2423.6	2435.1
47.5°	2629.3	2644.1	2614.4	2622.7	2653.9	2622.7	2522.3	2522.3	2496.0	2519.0	2507.5
50°	2795.4	2749.4	2787.2	2787.2	2820.1	2823.4	2723.0	2686.8	2616.1	2576.6	2576.6
52.5°	2989.6	2992.9	3007.7	3062.0	3117.9	3165.6	3022.5	2867.8	2749.4	2698.4	2691.8
55°	3149.2	3182.1	3241.3	3343.3	3504.6	3570.4	3323.6	3047.2	2902.4	2823.4	2806.9
56°	3236.4	3205.1	3307.1	3447.0	3657.6	3743.1	3372.9	3083.4	2923.8	2834.9	2833.3
57.5°	3152.5	3187.0	3257.8	3478.2	3736.6	3848.4	3391.0	3066.9	2838.2	2747.7	2755.9
60°	2489.4	2522.3	2617.7	2864.5	3269.3	3356.5	2869.5	2528.9	2324.9	2194.9	2196.5
62.5°	1408.4	1433.1	1507.1	1735.8	1987.6	2071.5	1788.5	1561.4	1419.9	1347.5	1324.5
65°	518.3	508.4	519.9	636.7	791.4	862.2	743.7	628.5	554.5	528.2	518.3
67.5°	194.1	179.3	167.8	179.3	225.4	238.6	218.8	182.6	171.1	176.1	179.3
70°	120.1	113.5	90.5	85.6	83.9	82.3	87.2	92.1	105.3	123.4	126.7
72.5°	83.9	79.0	64.2	60.9	57.6	55.9	64.2	70.7	82.3	95.4	97.1
75°	32.9	34.6	32.9	36.2	37.8	39.5	46.1	51.0	55.9	55.9	54.3
77.5°	6.6	6.6	9.9	13.2	16.5	21.4	31.3	36.2	37.8	36.2	31.3
80°	0.0	0.0	3.3	6.6	13.2	18.1	28.0	31.3	34.6	31.3	24.7
82.5°	0.0	0.0	3.3	8.2	13.2	16.5	26.3	32.9	37.8	34.6	26.3
85°	0.0	0.0	3.3	6.6	9.9	11.5	11.5	8.2	8.2	4.9	3.3
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)