

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: P528901

Luminaire Tested: **GALN-SA4A-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528901
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-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 8791 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

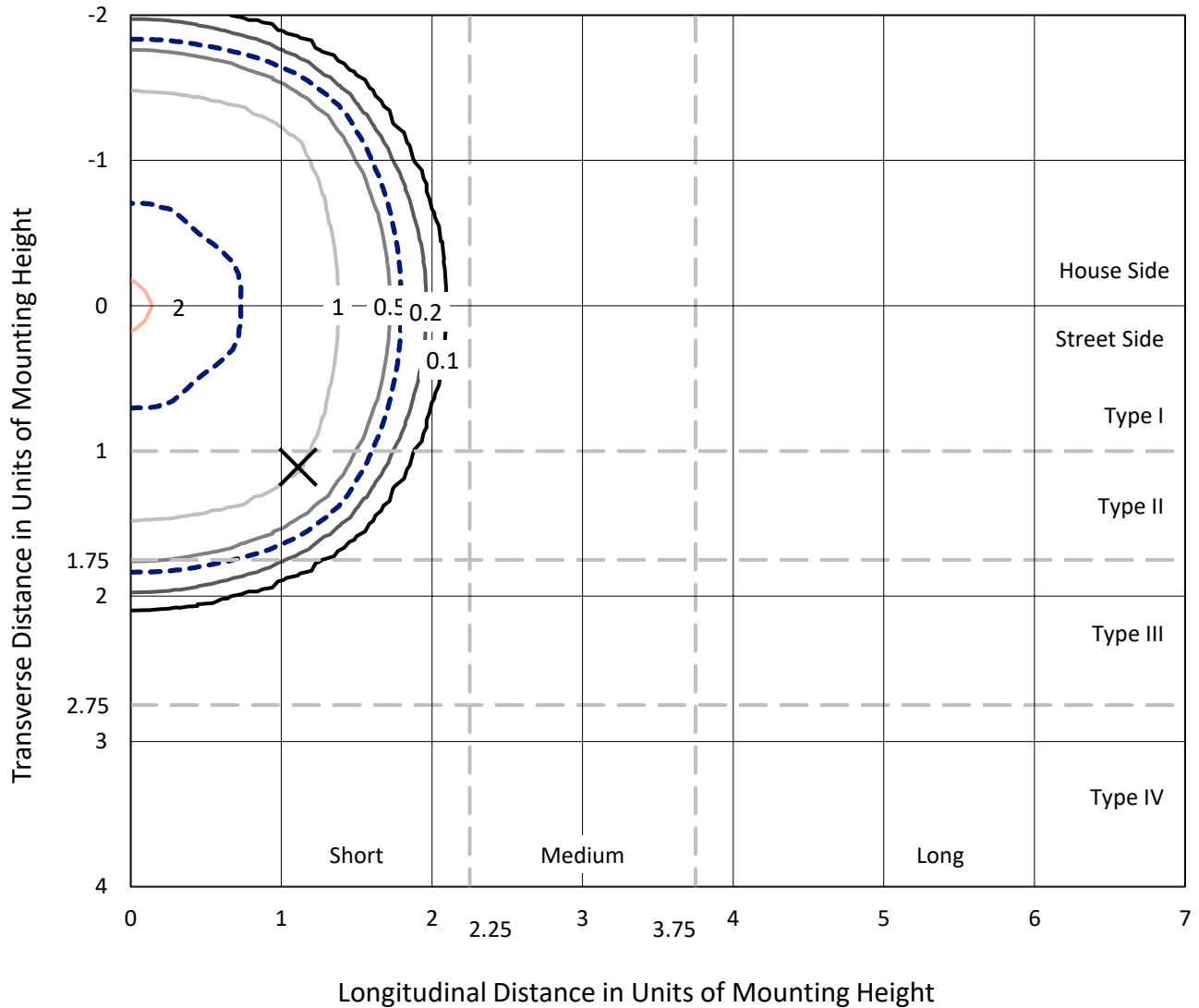
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

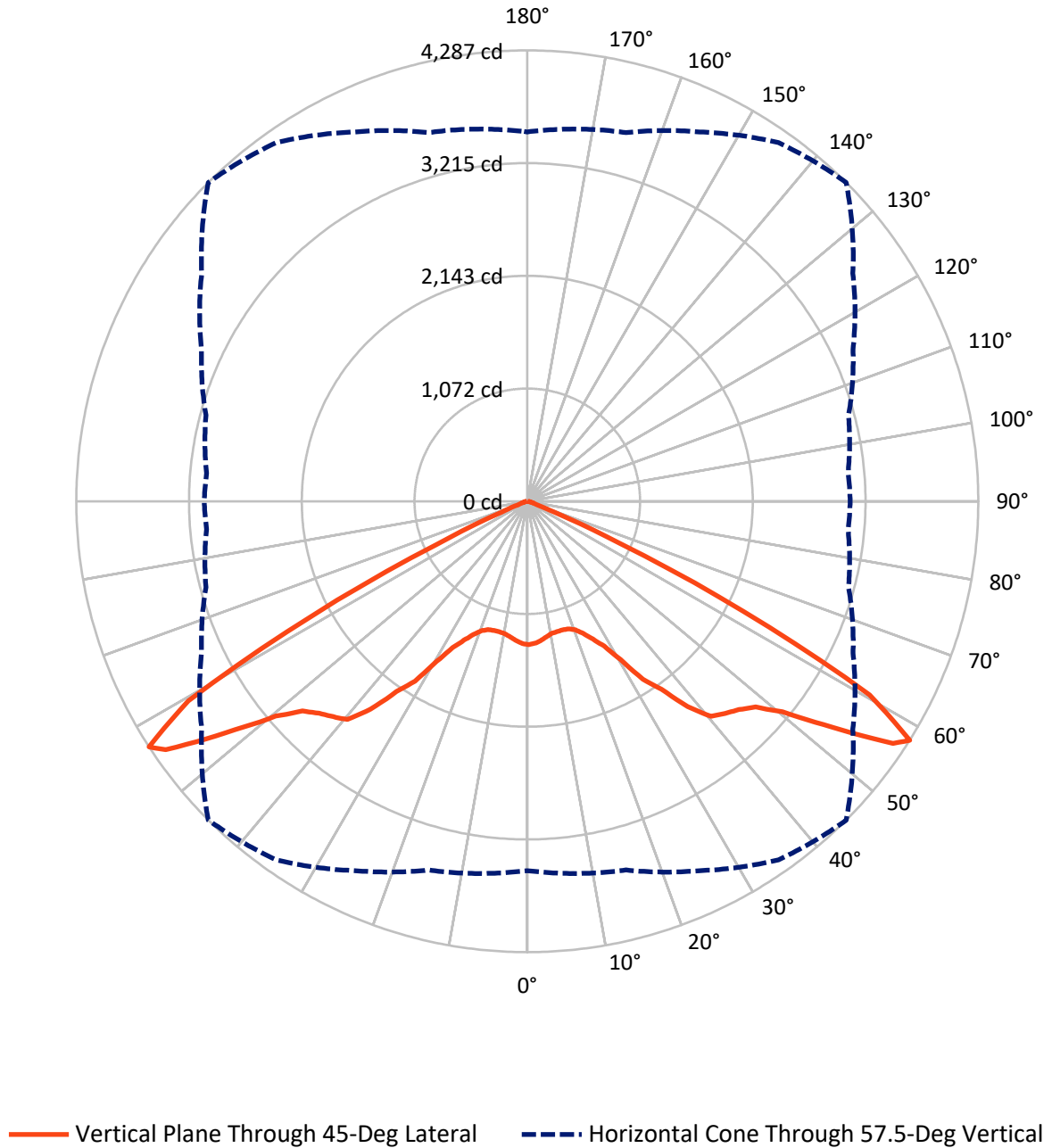
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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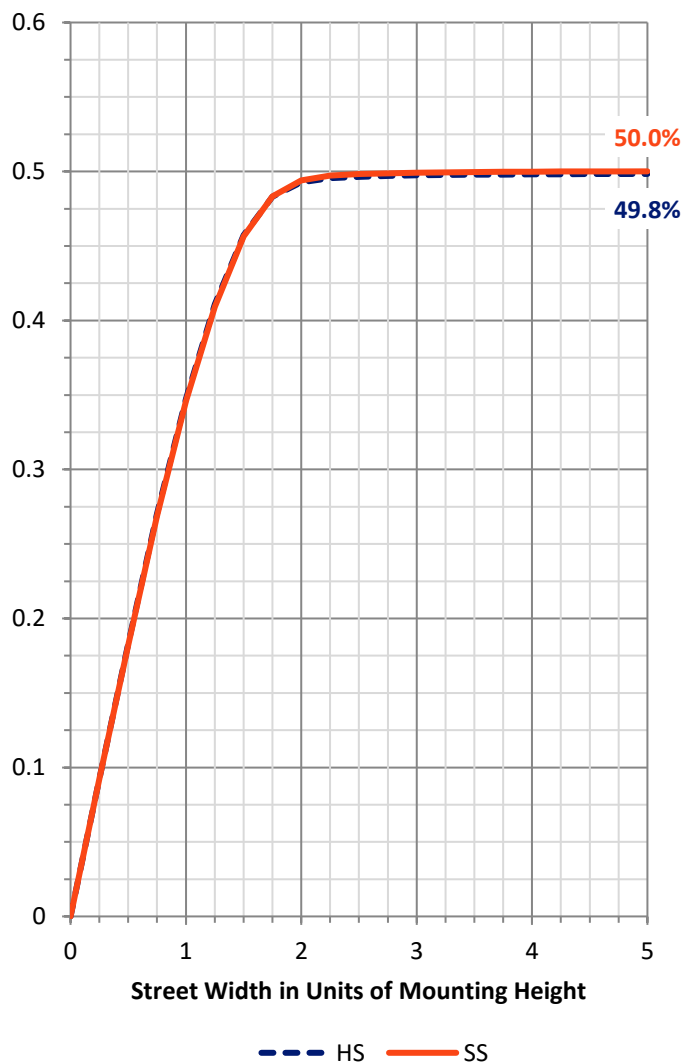
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4395.5	0.0	4395.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4395.5	0.0	4395.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8791.0	0.0	8791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.4
10°-20°	362.2	4.1
20°-30°	668.6	7.6
30°-40°	1314.8	15.0
40°-50°	2141.4	24.4
50°-60°	3054.0	34.7
60°-70°	1057.4	12.0
70°-80°	56.7	0.6
80°-90°	10.7	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°	8791.0	100.0
0°-180°	8791.0	100.0

Coefficient of Utilization

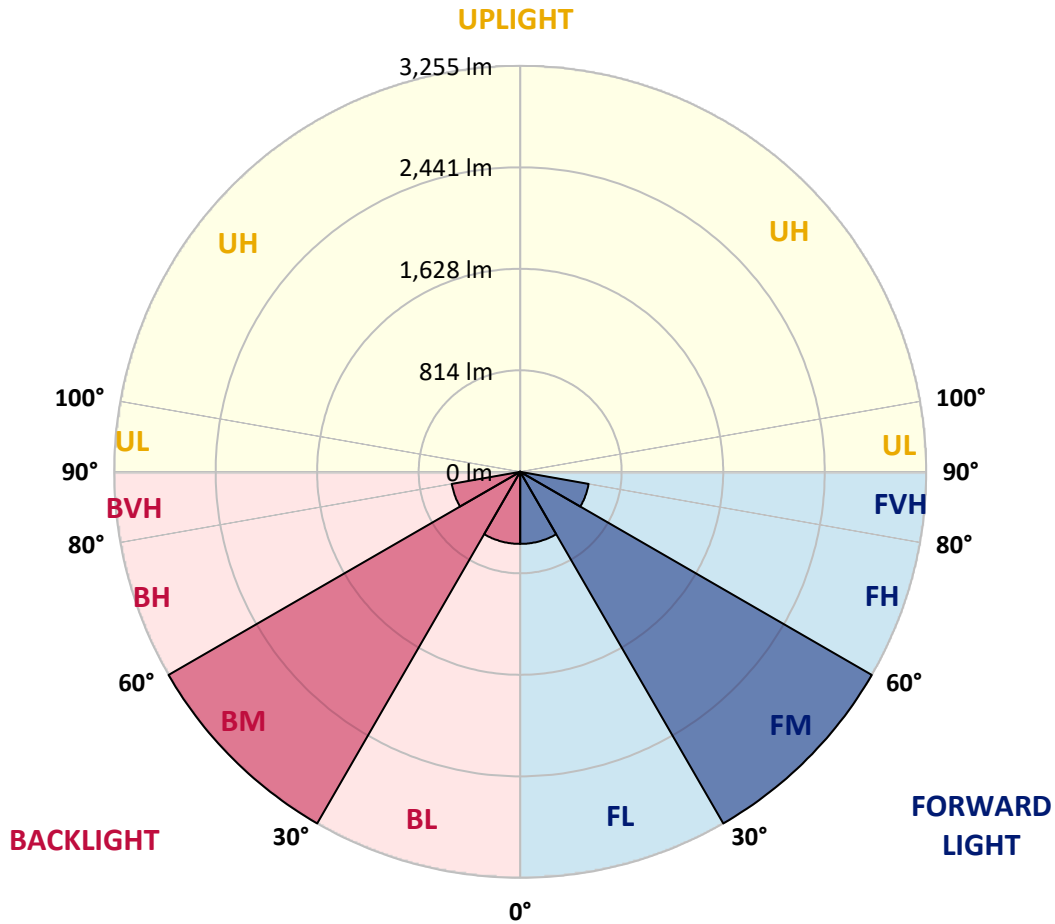


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.0	6.6			
FM (30°-60°)	3255.1	37.0			
FH (60°-80°)	557.0	6.3			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	578.0	6.6	B2/1000		
BM (30°-60°)	3255.1	37.0	B3/5000		
BH (60°-80°)	557.0	6.3	B2/1000		G0/660
BVH (80°-90°)	5.3	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°	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6
2.5°	1359.9	1367.2	1358.1	1354.4	1352.6	1352.6	1347.1	1347.1	1345.2	1347.1	1339.8
5°	1337.9	1345.2	1345.2	1343.4	1332.4	1330.6	1325.1	1321.4	1323.3	1315.9	1321.4
7.5°	1315.9	1321.4	1314.1	1312.3	1308.6	1301.3	1299.4	1282.9	1284.8	1284.8	1288.4
10°	1312.3	1310.4	1299.4	1290.3	1279.3	1277.4	1271.9	1268.3	1268.3	1266.4	1271.9
12.5°	1312.3	1303.1	1301.3	1281.1	1262.8	1270.1	1255.4	1246.3	1259.1	1262.8	1270.1
15°	1310.4	1319.6	1288.4	1279.3	1266.4	1268.3	1255.4	1246.3	1253.6	1257.3	1262.8
17.5°	1321.4	1315.9	1306.8	1288.4	1282.9	1275.6	1259.1	1251.8	1251.8	1260.9	1262.8
20°	1350.7	1336.1	1317.8	1308.6	1314.1	1304.9	1284.8	1257.3	1264.6	1271.9	1277.4
22.5°	1378.2	1367.2	1354.4	1348.9	1380.1	1365.4	1330.6	1299.4	1288.4	1301.3	1310.4
25°	1431.4	1431.4	1407.6	1414.9	1449.7	1451.5	1411.2	1356.2	1348.9	1354.4	1358.1
27.5°	1539.5	1545.0	1524.9	1532.2	1546.9	1559.7	1524.9	1479.0	1462.5	1460.7	1466.2
30°	1656.8	1667.8	1666.0	1697.1	1739.3	1746.6	1695.3	1620.2	1570.7	1561.5	1568.8
32.5°	1810.8	1816.3	1812.6	1849.3	1962.9	2016.0	1882.2	1775.9	1710.0	1726.5	1710.0
35°	2100.3	2094.8	2054.5	2061.9	2155.3	2193.8	2065.5	1997.7	1966.6	1999.5	1992.2
37.5°	2349.6	2329.4	2296.5	2344.1	2441.2	2476.1	2342.3	2223.1	2166.3	2221.3	2245.1
40°	2560.4	2509.1	2463.2	2510.9	2641.0	2688.7	2492.6	2395.4	2373.4	2413.7	2465.1
42.5°	2738.1	2705.2	2644.7	2648.3	2734.5	2756.5	2598.9	2542.0	2520.1	2584.2	2609.9
45°	2864.6	2833.5	2776.6	2773.0	2839.0	2824.3	2683.2	2644.7	2657.5	2699.7	2712.5
47.5°	2928.8	2945.3	2912.3	2921.4	2956.2	2921.4	2809.6	2809.6	2780.3	2806.0	2793.1
50°	3113.9	3062.5	3104.7	3104.7	3141.4	3145.0	3033.2	2992.9	2914.1	2870.1	2870.1
52.5°	3330.1	3333.8	3350.3	3410.8	3473.1	3526.2	3366.8	3194.5	3062.5	3005.7	2998.4
55°	3507.9	3544.6	3610.5	3724.2	3903.8	3977.1	3702.2	3394.3	3233.0	3145.0	3126.7
56°	3605.0	3570.2	3683.9	3839.6	4074.2	4169.5	3757.2	3434.6	3256.8	3157.9	3156.0
57.5°	3511.6	3550.1	3628.9	3874.5	4162.2	4286.8	3777.3	3416.3	3161.5	3060.7	3069.9
60°	2773.0	2809.6	2915.9	3190.8	3641.7	3738.8	3196.3	2817.0	2589.7	2444.9	2446.7
62.5°	1568.8	1596.3	1678.8	1933.6	2214.0	2307.4	1992.2	1739.3	1581.7	1501.0	1475.4
65°	577.3	566.3	579.2	709.3	881.6	960.4	828.4	700.1	617.6	588.3	577.3
67.5°	216.3	199.8	186.9	199.8	251.1	265.8	243.8	203.4	190.6	196.1	199.8
70°	133.8	126.5	100.8	95.3	93.5	91.6	97.1	102.6	117.3	137.5	141.1
72.5°	93.5	88.0	71.5	67.8	64.1	62.3	71.5	78.8	91.6	106.3	108.1
75°	36.7	38.5	36.7	40.3	42.2	44.0	51.3	56.8	62.3	62.3	60.5
77.5°	7.3	7.3	11.0	14.7	18.3	23.8	34.8	40.3	42.2	40.3	34.8
80°	0.0	0.0	3.7	7.3	14.7	20.2	31.2	34.8	38.5	34.8	27.5
82.5°	0.0	0.0	3.7	9.2	14.7	18.3	29.3	36.7	42.2	38.5	29.3
85°	0.0	0.0	3.7	7.3	11.0	12.8	12.8	9.2	9.2	5.5	3.7
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)