

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: P648359

Luminaire Tested: **GALN-SA4B-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648359
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-SA4B-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA 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: 9194 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

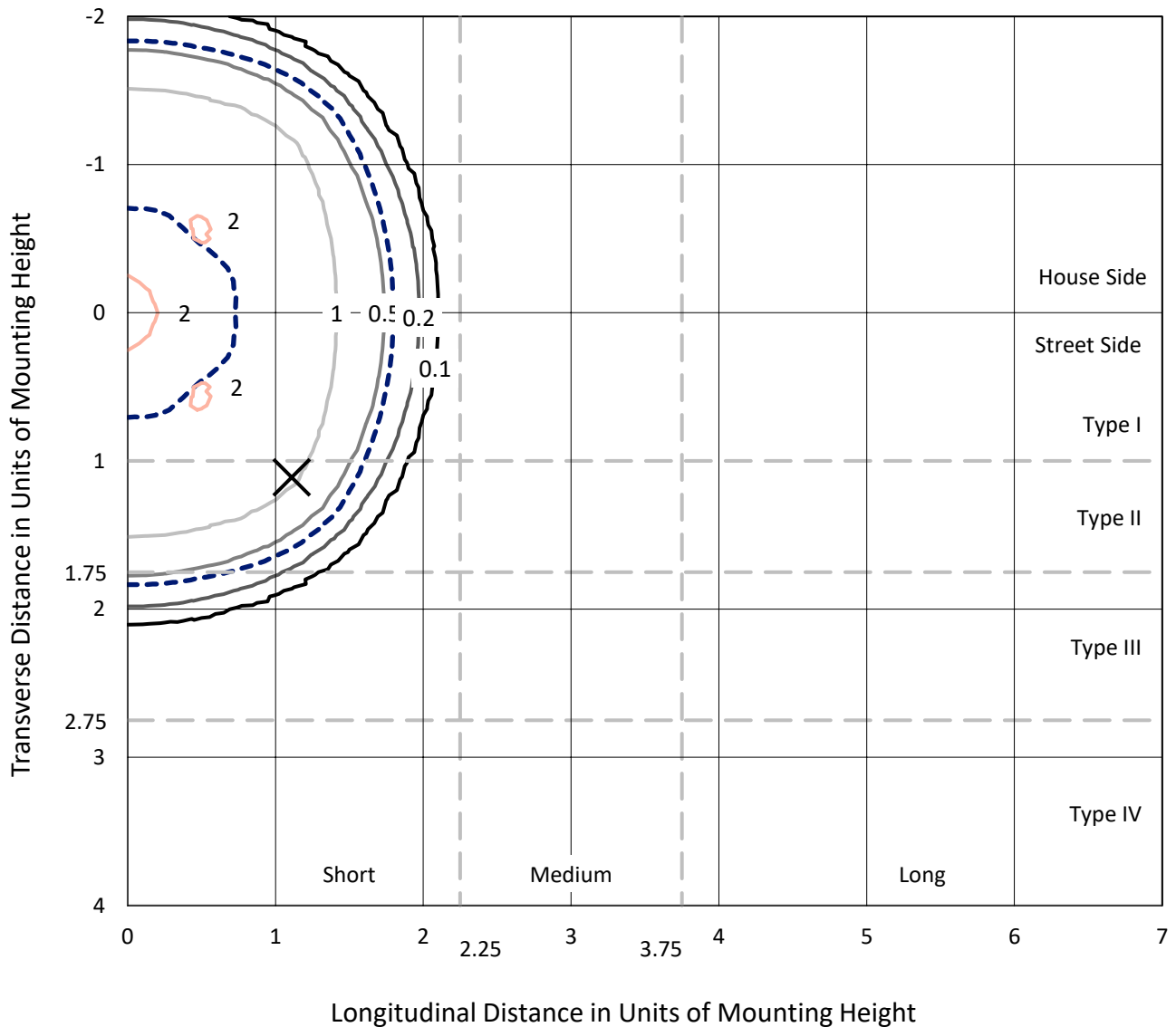
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

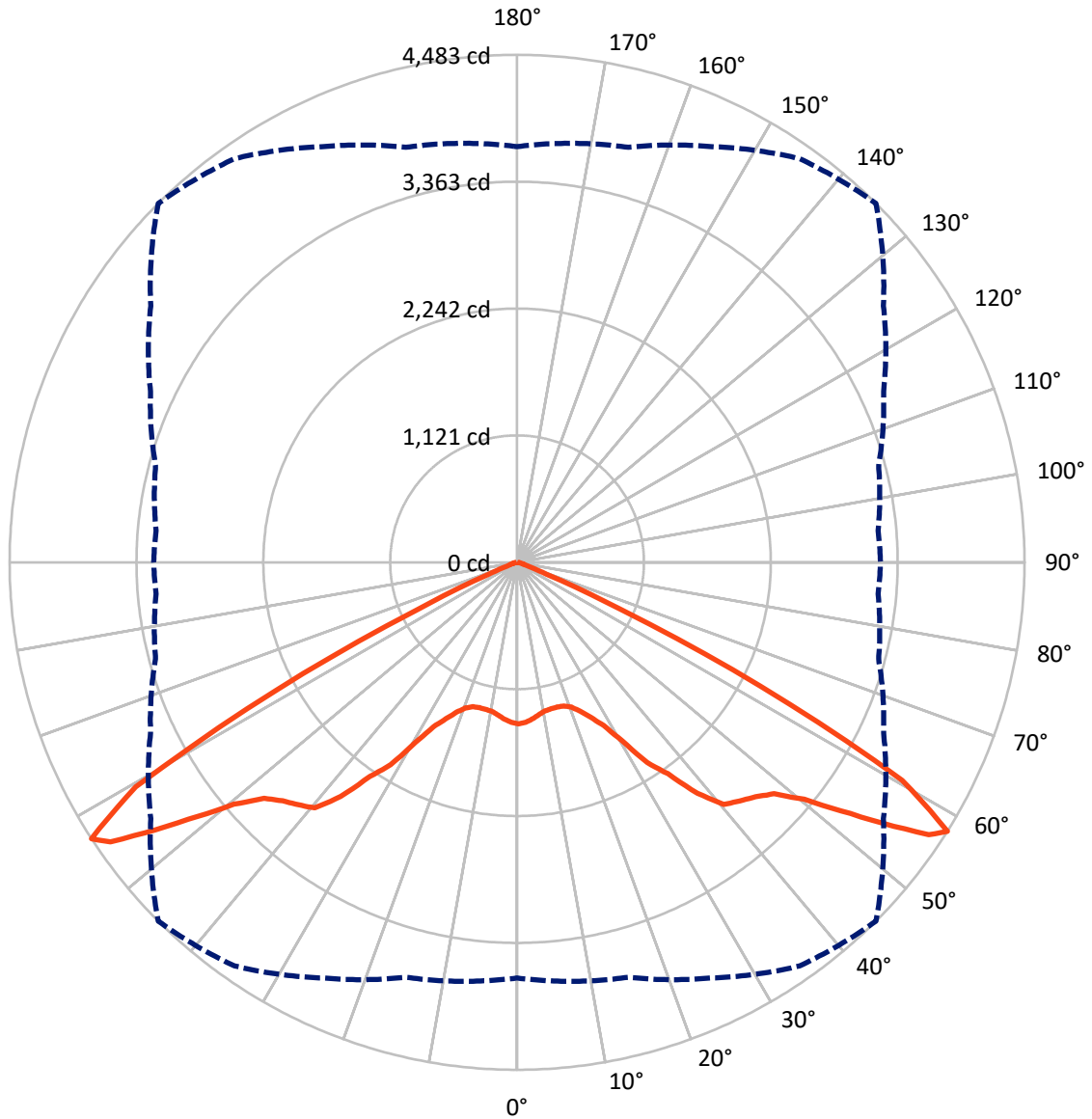
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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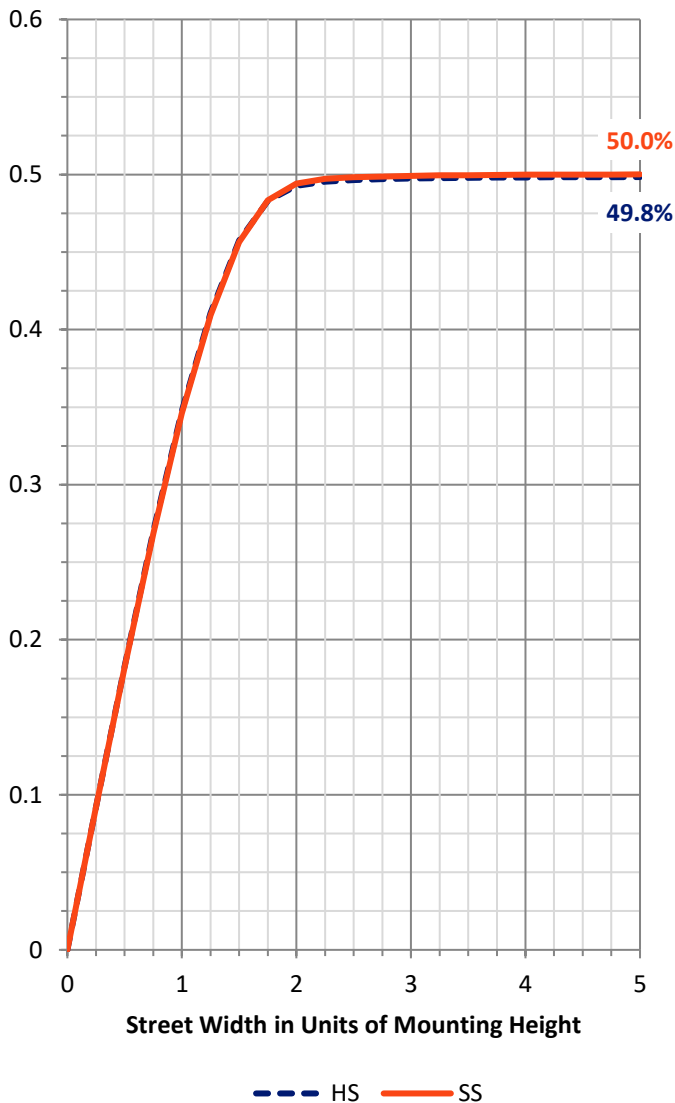
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4597.0	0.0	4597.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4597.0	0.0	4597.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9194.0	0.0	9194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.4
10°-20°	378.8	4.1
20°-30°	699.2	7.6
30°-40°	1375.1	15.0
40°-50°	2239.6	24.4
50°-60°	3194.0	34.7
60°-70°	1105.8	12.0
70°-80°	59.3	0.6
80°-90°	11.1	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°	9194.0	100.0
0°-180°	9194.0	100.0

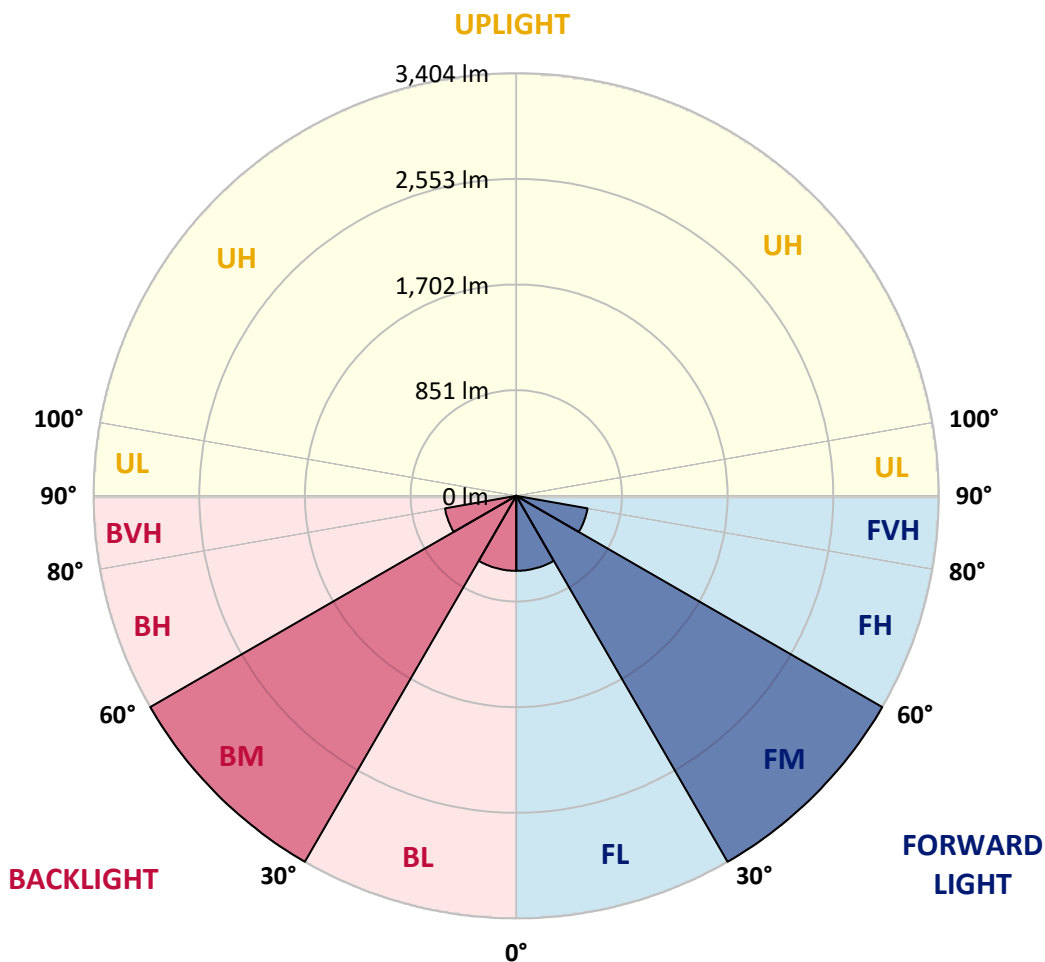


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.5	6.6			
FM (30°-60°)	3404.3	37.0			
FH (60°-80°)	582.6	6.3			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	604.5	6.6	B2/1000		
BM (30°-60°)	3404.3	37.0	B3/5000		
BH (60°-80°)	582.6	6.3	B2/1000		G0/660
BVH (80°-90°)	5.6	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°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1422.2	1429.9	1420.4	1416.5	1414.6	1414.6	1408.9	1408.9	1406.9	1408.9	1401.2
5°	1399.2	1406.9	1406.9	1405.0	1393.5	1391.5	1385.8	1382.0	1384.0	1376.3	1382.0
7.5°	1376.3	1382.0	1374.3	1372.4	1368.6	1360.9	1359.0	1341.7	1343.6	1343.6	1347.5
10°	1372.4	1370.5	1359.0	1349.4	1337.9	1336.0	1330.2	1326.4	1326.4	1324.5	1330.2
12.5°	1372.4	1362.8	1360.9	1339.8	1320.7	1328.4	1313.0	1303.4	1316.8	1320.7	1328.4
15°	1370.5	1380.1	1347.5	1337.9	1324.5	1326.4	1313.0	1303.4	1311.1	1314.9	1320.7
17.5°	1382.0	1376.3	1366.6	1347.5	1341.7	1334.1	1316.8	1309.2	1309.2	1318.7	1320.7
20°	1412.7	1397.3	1378.2	1368.6	1374.3	1364.8	1343.6	1314.9	1322.6	1330.2	1336.0
22.5°	1441.4	1429.9	1416.5	1410.7	1443.3	1428.0	1391.5	1359.0	1347.5	1360.9	1370.5
25°	1497.0	1497.0	1472.1	1479.8	1516.2	1518.1	1476.0	1418.4	1410.7	1416.5	1420.4
27.5°	1610.1	1615.9	1594.7	1602.4	1617.8	1631.1	1594.7	1546.8	1529.6	1527.7	1533.4
30°	1732.8	1744.3	1742.3	1774.9	1819.0	1826.7	1773.0	1694.4	1642.7	1633.1	1640.8
32.5°	1893.8	1899.6	1895.7	1934.0	2052.9	2108.5	1968.5	1857.4	1788.4	1805.6	1788.4
35°	2196.6	2190.9	2148.7	2156.4	2254.1	2294.3	2160.2	2089.3	2056.7	2091.2	2083.6
37.5°	2457.3	2436.2	2401.7	2451.6	2553.1	2589.5	2449.6	2325.0	2265.6	2323.2	2348.1
40°	2677.7	2624.1	2576.1	2626.0	2762.1	2811.9	2606.8	2505.2	2482.3	2524.4	2578.1
42.5°	2863.7	2829.1	2765.9	2769.8	2859.8	2882.8	2718.0	2658.6	2635.6	2702.7	2729.5
45°	2995.9	2963.3	2903.9	2900.1	2969.1	2953.8	2806.2	2765.9	2779.3	2823.4	2836.8
47.5°	3063.0	3080.2	3045.8	3055.3	3091.8	3055.3	2938.4	2938.4	2907.7	2934.6	2921.1
50°	3256.6	3202.9	3247.0	3247.0	3285.4	3289.2	3172.2	3130.1	3047.7	3001.7	3001.7
52.5°	3482.8	3486.6	3503.8	3567.1	3632.3	3687.9	3521.2	3341.0	3202.9	3143.5	3135.8
55°	3668.7	3707.0	3776.0	3894.9	4082.7	4159.4	3871.9	3549.9	3381.2	3289.2	3270.0
56°	3770.3	3733.9	3852.8	4015.6	4261.0	4360.7	3929.4	3592.0	3406.1	3302.6	3300.7
57.5°	3672.6	3712.8	3795.2	4052.1	4353.0	4483.4	3950.5	3572.9	3306.5	3201.0	3210.6
60°	2900.1	2938.4	3049.6	3337.1	3808.7	3910.2	3342.9	2946.1	2708.4	2557.0	2558.9
62.5°	1640.8	1669.5	1755.8	2022.2	2315.5	2413.2	2083.6	1819.0	1654.2	1569.8	1543.0
65°	603.8	592.3	605.7	741.8	922.0	1004.4	866.4	732.2	646.0	615.3	603.8
67.5°	226.2	208.9	195.5	208.9	262.6	278.0	254.9	212.7	199.4	205.1	208.9
70°	139.9	132.2	105.4	99.7	97.7	95.8	101.6	107.3	122.7	143.8	147.6
72.5°	97.7	92.0	74.8	70.9	67.1	65.1	74.8	82.4	95.8	111.2	113.1
75°	38.4	40.2	38.4	42.2	44.1	46.0	53.6	59.4	65.1	65.1	63.3
77.5°	7.7	7.7	11.5	15.3	19.2	24.9	36.4	42.2	44.1	42.2	36.4
80°	0.0	0.0	3.8	7.7	15.3	21.1	32.6	36.4	40.2	36.4	28.7
82.5°	0.0	0.0	3.8	9.6	15.3	19.2	30.7	38.4	44.1	40.2	30.7
85°	0.0	0.0	3.8	7.7	11.5	13.4	13.4	9.6	9.6	5.7	3.8
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)