

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: P647256

Luminaire Tested: **GALN-SA2D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8367.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

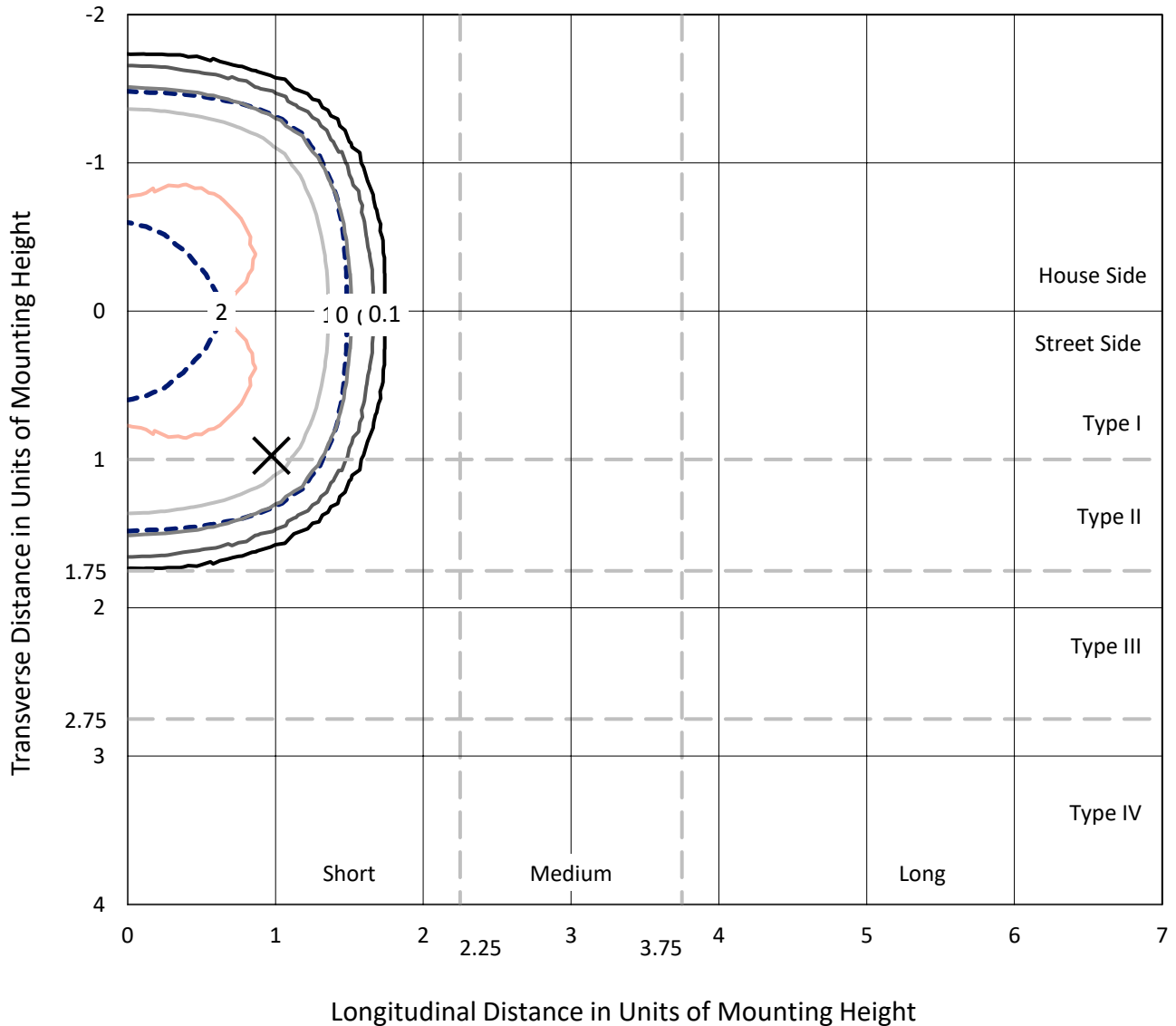
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

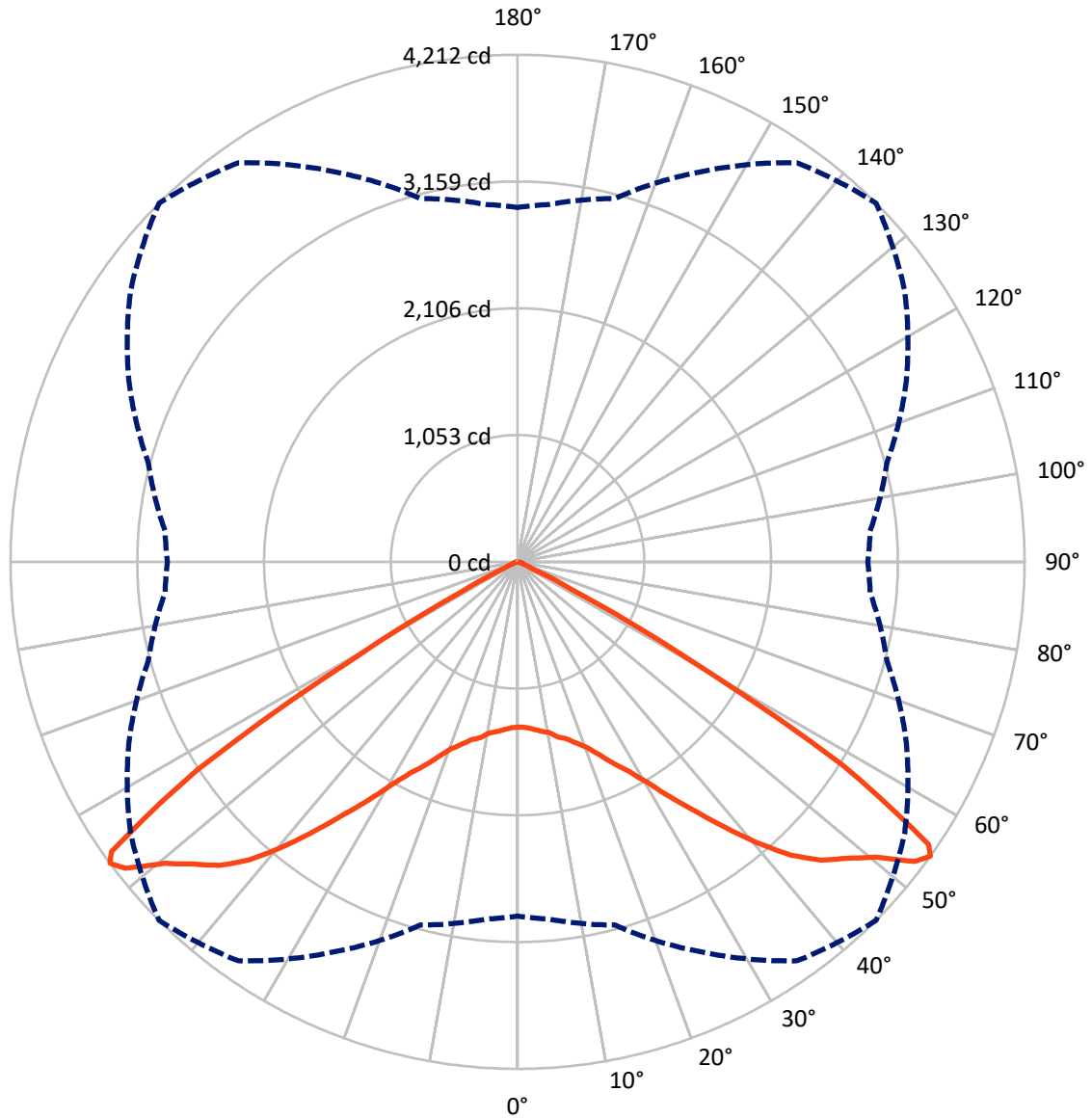
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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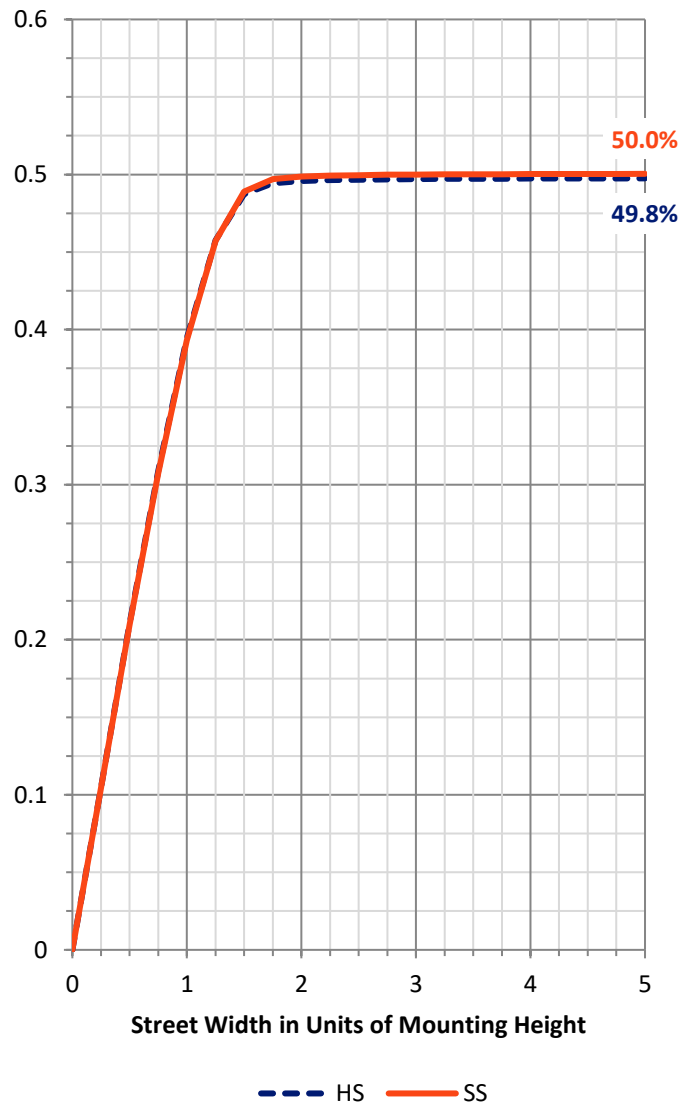
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4184.0	0.0	4184.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4184.0	0.0	4184.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8367.9	0.0	8367.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.6
10°-20°	434.9	5.2
20°-30°	852.4	10.2
30°-40°	1532.7	18.3
40°-50°	2623.7	31.4
50°-60°	2538.7	30.3
60°-70°	217.3	2.6
70°-80°	25.8	0.3
80°-90°	8.1	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°	8367.9	100.0
0°-180°	8367.9	100.0

Coefficient of Utilization



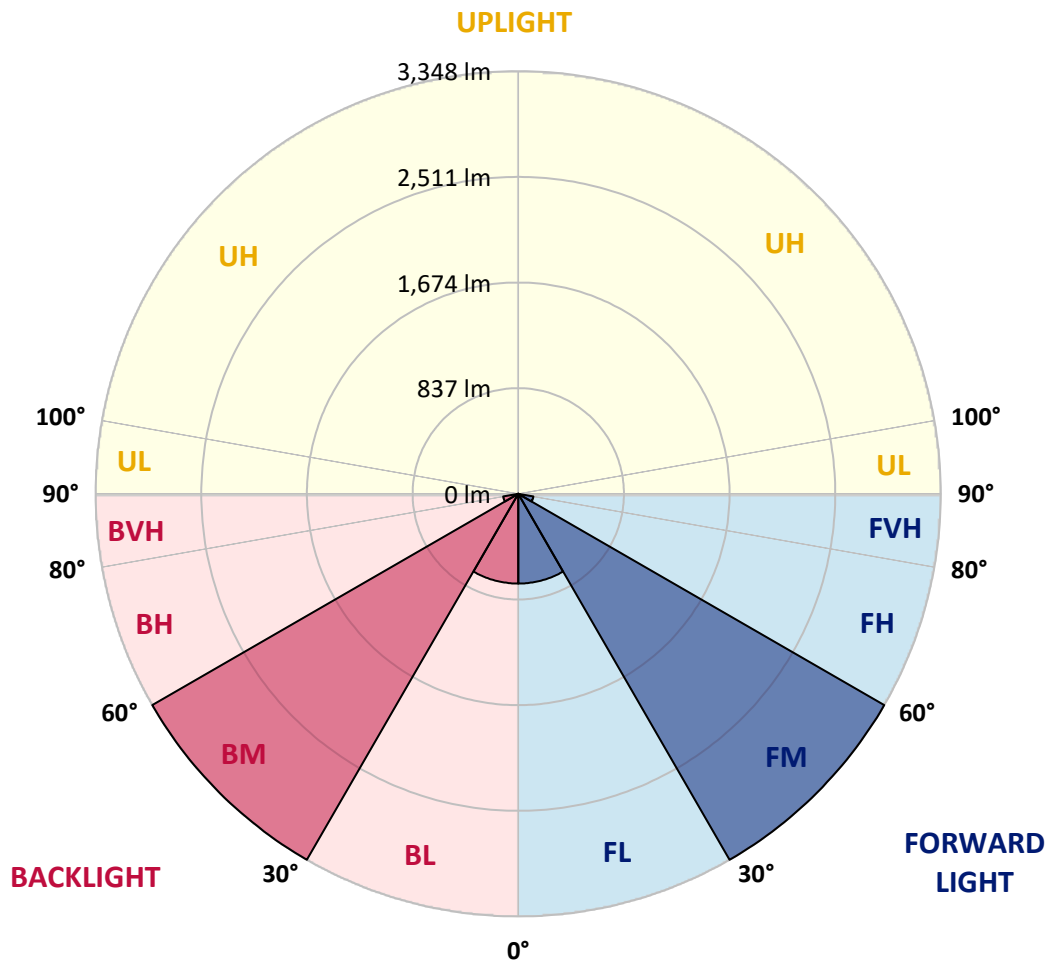
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.8	8.5			
FM (30°-60°)	3347.6	40.0			
FH (60°-80°)	121.5	1.5			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	710.8	8.5	B2/1000		
BM (30°-60°)	3347.6	40.0	B3/5000		
BH (60°-80°)	121.5	1.5	B1/500		G0/660
BVH (80°-90°)	4.0	0.0			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°	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1
2.5°	1378.7	1386.7	1381.4	1385.4	1385.4	1378.7	1382.7	1366.8	1377.4	1369.4	1370.7
5°	1399.9	1398.6	1398.6	1399.9	1394.6	1397.3	1391.9	1386.7	1382.7	1377.4	1393.3
7.5°	1426.5	1426.5	1417.2	1419.8	1417.2	1421.1	1410.5	1399.9	1395.9	1391.9	1389.3
10°	1451.6	1448.9	1445.0	1456.9	1447.6	1442.4	1437.0	1430.4	1415.8	1410.5	1405.3
12.5°	1488.7	1487.4	1482.1	1494.0	1488.7	1494.0	1474.2	1456.9	1454.3	1437.0	1446.3
15°	1532.5	1544.4	1535.1	1535.1	1532.5	1525.8	1517.9	1509.9	1486.1	1479.5	1480.8
17.5°	1589.5	1585.5	1586.8	1586.8	1600.1	1582.8	1566.9	1547.1	1535.1	1531.2	1517.9
20°	1643.8	1649.2	1647.8	1657.1	1665.0	1646.5	1629.3	1626.6	1593.5	1598.8	1580.2
22.5°	1739.3	1735.3	1741.9	1748.6	1743.3	1740.6	1724.7	1704.8	1675.6	1662.4	1659.7
25°	1840.0	1833.4	1821.5	1837.4	1845.4	1857.3	1826.8	1816.2	1771.1	1751.3	1752.5
27.5°	1926.2	1935.5	1948.7	1955.4	1975.3	1971.3	1950.1	1915.6	1881.2	1858.6	1844.0
30°	2044.2	2049.5	2072.1	2081.3	2115.8	2125.1	2091.9	2052.2	1991.2	1962.0	1944.7
32.5°	2152.9	2190.1	2188.7	2235.1	2290.7	2329.2	2269.5	2208.6	2147.6	2113.2	2082.6
35°	2329.2	2322.6	2361.1	2410.1	2500.2	2544.0	2479.1	2408.7	2316.0	2260.3	2236.4
37.5°	2493.6	2496.3	2548.0	2626.2	2729.5	2797.2	2740.2	2624.9	2529.4	2457.8	2424.6
40°	2732.2	2737.5	2790.5	2879.4	2996.1	3069.0	3002.6	2886.0	2758.7	2703.1	2703.1
42.5°	3012.0	3034.5	3069.0	3145.9	3250.5	3331.4	3271.8	3180.3	3051.7	2980.1	2990.7
45°	3299.6	3310.2	3332.8	3446.8	3495.8	3535.6	3479.9	3437.4	3351.3	3263.9	3249.2
47.5°	3568.8	3572.7	3639.0	3674.8	3713.2	3680.1	3715.9	3660.2	3563.4	3478.6	3461.3
50°	3688.0	3681.4	3775.5	3884.2	3913.4	3855.1	3824.6	3787.4	3640.3	3538.2	3493.2
52.5°	3340.7	3379.2	3554.1	3856.4	4084.4	4133.5	3955.8	3784.8	3510.4	3311.5	3281.1
54°	2943.0	2978.8	3123.3	3571.4	4046.0	4211.7	3925.3	3562.1	3175.0	2939.1	2908.5
55°	2549.3	2509.5	2772.0	3229.3	3865.7	4142.8	3804.7	3274.4	2831.6	2615.5	2573.2
57.5°	1380.0	1386.7	1608.0	2040.2	2716.3	3176.3	2805.2	2215.2	1673.0	1430.4	1409.2
60°	437.5	448.1	544.9	824.6	1297.8	1549.7	1328.4	889.6	615.1	493.1	473.2
62.5°	136.6	141.9	155.1	230.7	355.2	507.7	397.7	238.7	177.7	163.0	165.7
65°	83.5	83.5	84.9	90.1	106.0	123.3	119.3	104.8	100.8	98.1	96.8
67.5°	54.3	53.0	55.7	59.7	62.3	63.7	67.6	71.6	70.2	67.6	67.6
70°	33.1	31.8	34.5	39.8	41.1	43.8	47.8	53.0	51.7	49.0	50.3
72.5°	18.6	18.6	19.9	23.9	27.9	30.5	34.5	38.4	39.8	38.4	38.4
75°	6.7	8.0	10.6	14.6	17.2	21.2	25.2	29.1	33.1	30.5	29.1
77.5°	2.7	2.7	5.3	9.3	13.2	17.2	23.9	27.9	30.5	27.9	25.2
80°	1.3	1.3	4.0	8.0	11.9	15.9	19.9	23.9	25.2	22.6	19.9
82.5°	1.3	1.3	4.0	8.0	11.9	14.6	21.2	23.9	26.5	23.9	19.9
85°	0.0	1.3	4.0	8.0	10.6	11.9	11.9	8.0	6.7	4.0	4.0
87.5°	0.0	0.0	1.3	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)