

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: P648300

Luminaire Tested: **GALN-SA3B-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13949.9 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

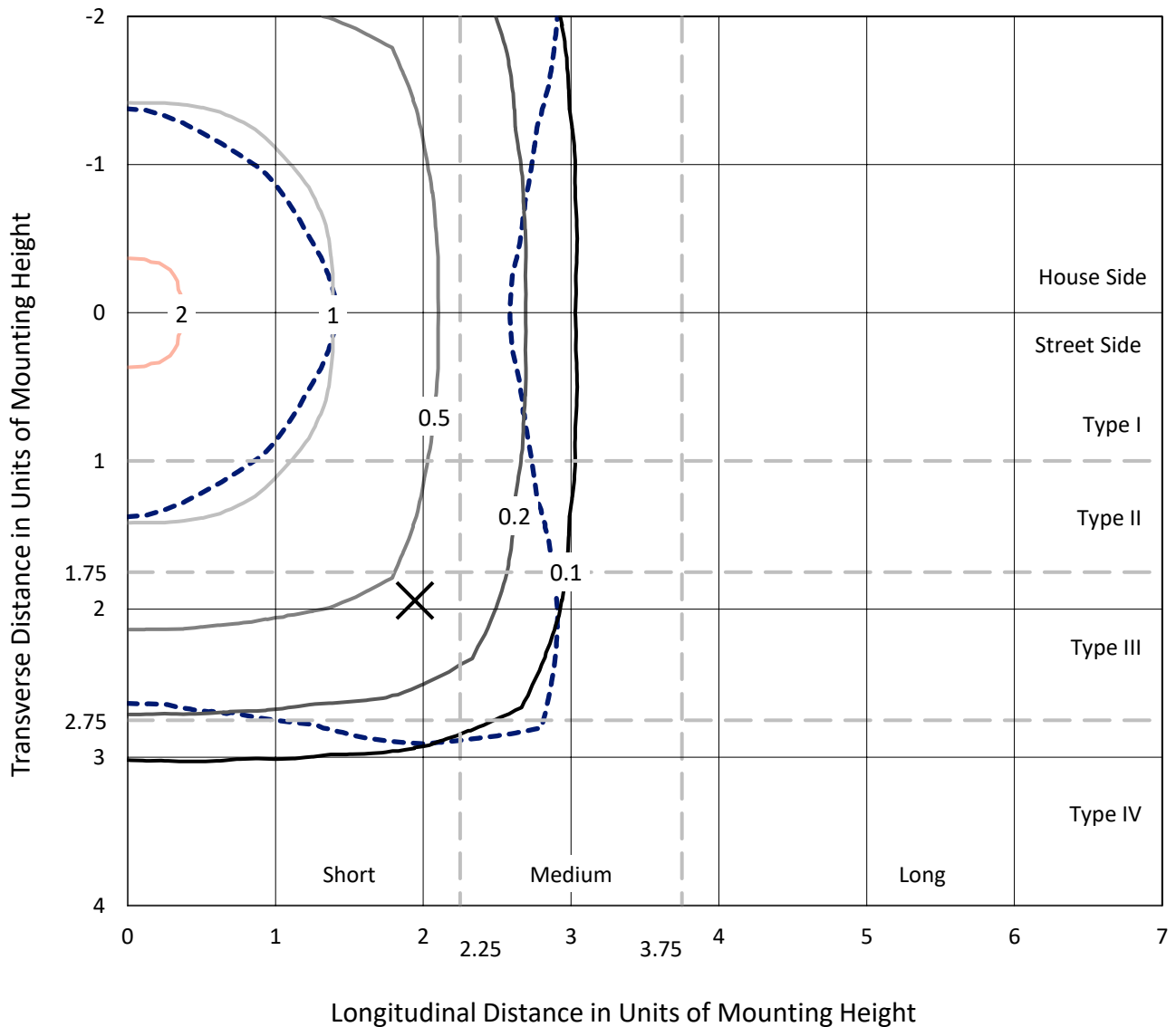
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

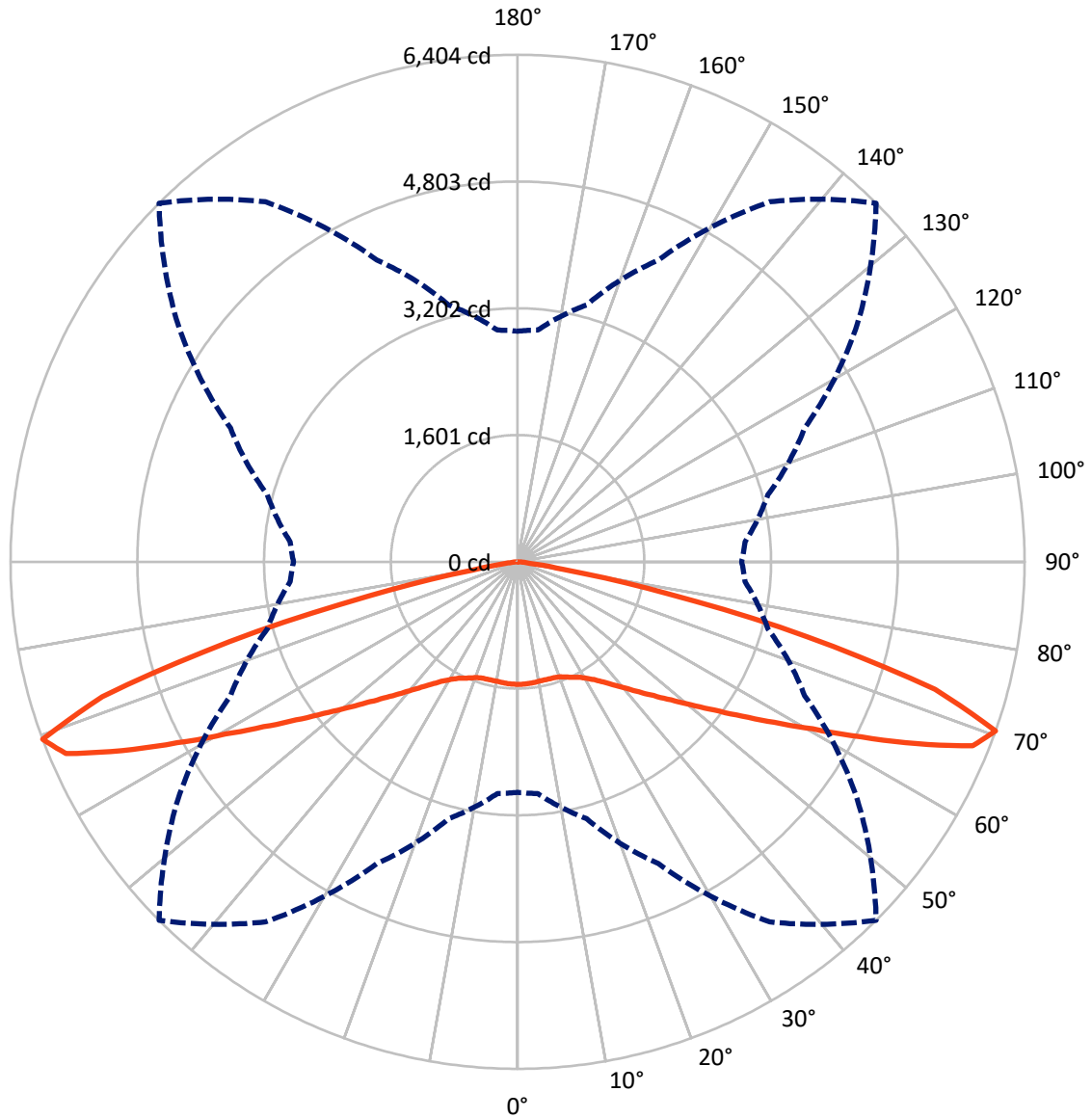
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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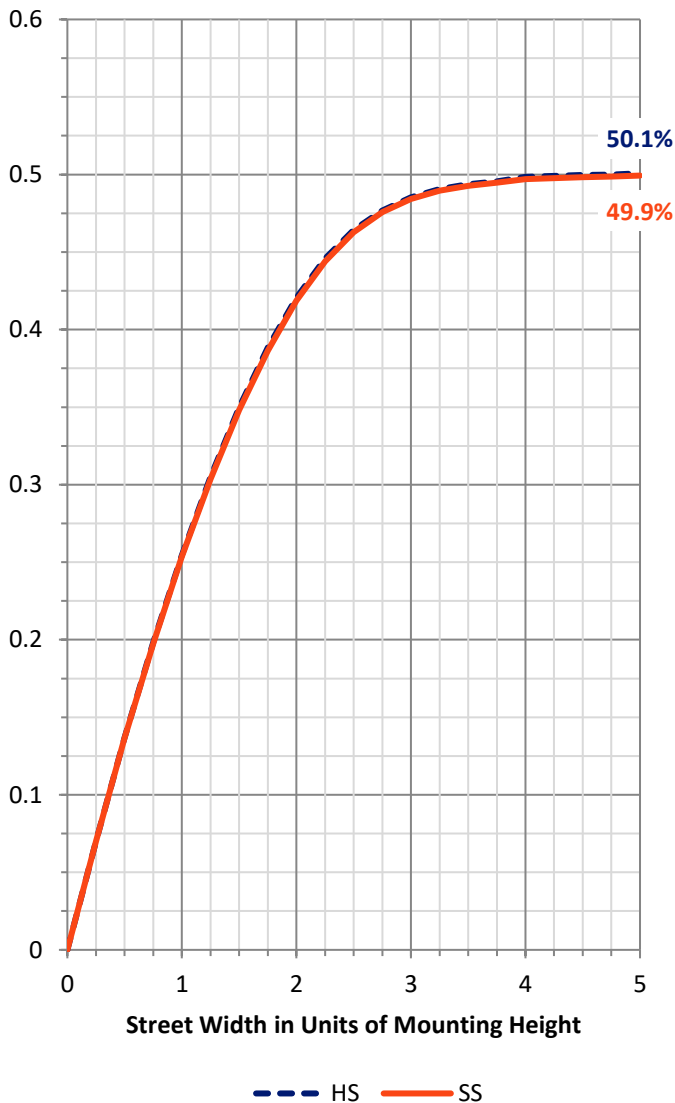
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6975.0	0.0	6975.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6975.0	0.0	6975.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13949.9	0.0	13949.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.1
10°-20°	431.1	3.1
20°-30°	737.2	5.3
30°-40°	1170.2	8.4
40°-50°	1887.8	13.5
50°-60°	3071.4	22.0
60°-70°	4452.5	31.9
70°-80°	1975.0	14.2
80°-90°	77.9	0.6
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°	13949.9	100.0
0°-180°	13949.9	100.0



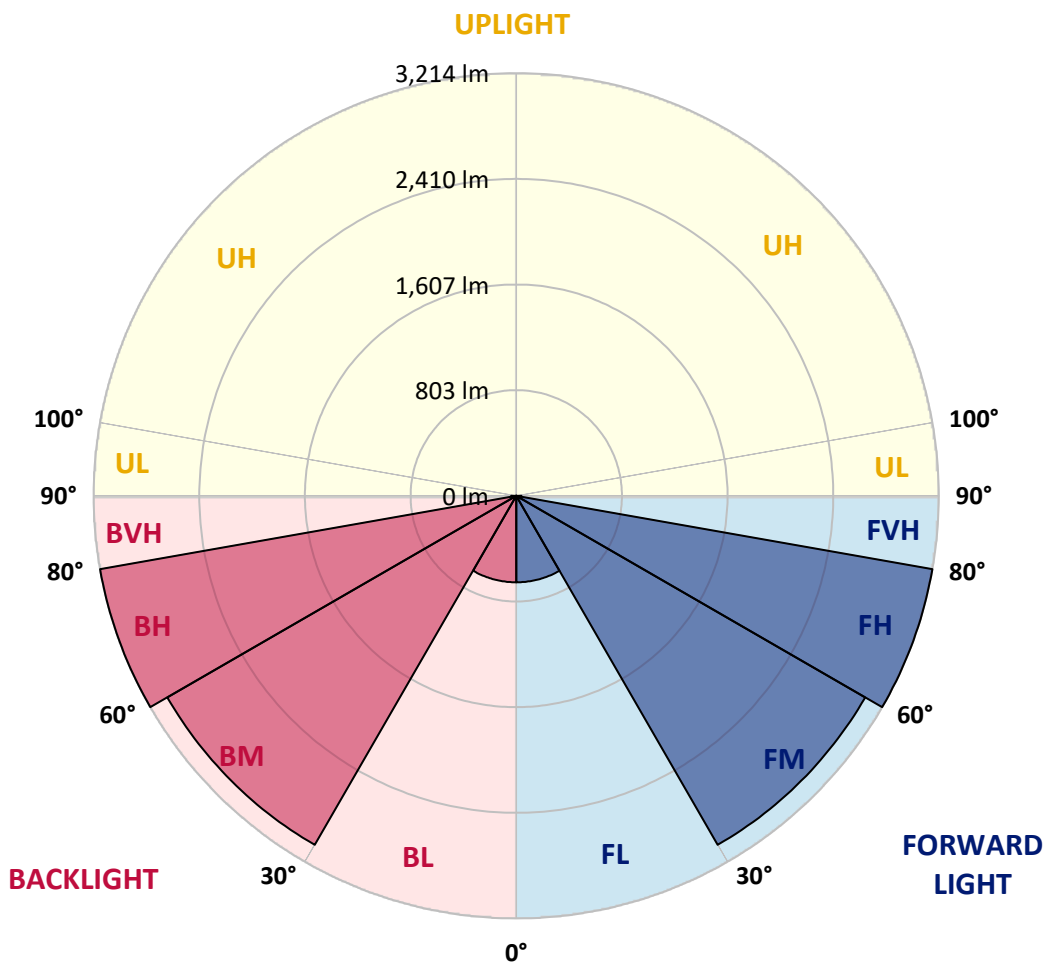
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.6	4.7			
FM (30°-60°)	3064.7	22.0			
FH (60°-80°)	3213.7	23.0			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	657.6	4.7	B2/1000		
BM (30°-60°)	3064.7	22.0	B3/5000		
BH (60°-80°)	3213.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	39.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1549.1	1549.1	1549.1	1549.1	1549.1	1549.1	1549.1	1549.1	1549.1	1549.1	1549.1
2.5°	1549.1	1550.6	1548.3	1546.9	1546.1	1546.1	1545.4	1546.1	1550.6	1551.3	1549.1
5°	1544.6	1546.1	1545.4	1543.9	1543.2	1543.2	1542.4	1541.7	1545.4	1546.9	1546.1
7.5°	1538.8	1539.5	1538.8	1538.0	1538.8	1538.0	1535.9	1534.4	1537.3	1537.3	1536.6
10°	1528.5	1530.0	1529.2	1530.0	1531.4	1531.4	1528.5	1525.5	1526.3	1524.8	1524.8
12.5°	1516.0	1518.2	1518.9	1521.8	1525.5	1530.0	1523.3	1516.7	1515.3	1514.6	1513.8
15°	1507.9	1510.1	1513.1	1516.0	1522.6	1532.2	1522.6	1512.3	1509.4	1506.4	1504.9
17.5°	1505.7	1508.6	1513.1	1517.5	1526.3	1535.9	1527.8	1517.5	1510.1	1505.7	1504.2
20°	1511.6	1513.8	1520.4	1528.5	1541.0	1550.6	1542.4	1531.4	1520.4	1513.8	1511.6
22.5°	1523.3	1527.0	1535.1	1549.8	1567.5	1581.4	1570.4	1552.0	1534.4	1525.5	1522.6
25°	1549.1	1552.0	1561.5	1581.4	1602.0	1615.3	1603.5	1582.1	1557.9	1546.1	1542.4
27.5°	1588.0	1592.5	1602.7	1626.3	1643.2	1650.6	1642.4	1627.8	1610.1	1597.6	1594.7
30°	1643.2	1648.3	1663.8	1688.8	1699.8	1704.2	1700.5	1691.0	1678.4	1665.2	1662.3
32.5°	1717.4	1720.4	1738.0	1761.5	1771.9	1773.3	1768.9	1764.5	1743.9	1721.8	1720.4
35°	1800.5	1805.7	1827.0	1854.9	1864.5	1865.2	1856.4	1849.8	1825.5	1807.9	1807.9
37.5°	1910.8	1913.0	1933.6	1965.2	1975.5	1972.5	1968.1	1962.3	1936.5	1913.7	1914.4
40°	2040.2	2044.6	2062.3	2099.0	2099.0	2095.3	2098.3	2093.9	2068.1	2046.1	2046.8
42.5°	2193.8	2196.1	2217.4	2256.4	2253.4	2246.0	2249.0	2243.1	2226.9	2202.0	2193.1
45°	2357.8	2366.6	2403.4	2440.8	2435.0	2411.5	2423.2	2421.7	2407.0	2369.6	2371.8
47.5°	2555.6	2570.3	2605.6	2650.4	2643.8	2607.0	2620.2	2629.1	2608.5	2567.3	2559.9
50°	2778.3	2787.9	2840.1	2882.0	2876.1	2837.1	2867.3	2868.8	2817.3	2759.2	2759.2
52.5°	3015.8	3025.4	3095.9	3161.4	3165.0	3108.4	3132.7	3131.2	3047.4	2970.9	2956.2
55°	3281.9	3286.3	3377.5	3473.9	3494.5	3439.2	3442.2	3412.8	3304.0	3215.1	3206.9
57.5°	3556.9	3573.1	3673.8	3798.8	3859.8	3826.0	3810.5	3731.9	3626.8	3524.6	3519.4
60°	3861.3	3862.0	3992.9	4140.7	4264.2	4287.0	4223.7	4118.6	3982.6	3847.3	3841.5
62.5°	4072.3	4103.9	4269.3	4519.3	4740.6	4868.5	4701.6	4481.0	4213.5	3995.1	3973.0
65°	4115.7	4137.0	4389.2	4812.6	5264.8	5540.5	5154.5	4685.5	4228.9	3937.8	3923.1
67.5°	3765.0	3787.8	4127.4	4777.3	5632.4	6197.8	5448.6	4587.0	3967.1	3606.9	3578.2
70°	2912.1	2937.9	3357.7	4205.3	5550.8	6404.4	5239.1	4001.0	3271.7	2882.8	2830.5
72.5°	1548.3	1643.2	2002.0	2886.4	4505.3	5514.0	4295.8	2919.5	2110.0	1724.8	1655.7
75°	565.4	577.1	777.1	1280.0	2621.0	3781.2	2721.7	1392.5	800.6	618.3	586.7
77.5°	233.8	233.0	255.9	386.7	952.0	1936.5	1062.4	408.8	255.1	236.0	233.0
80°	138.2	138.2	152.2	161.0	250.7	584.5	280.1	182.4	152.9	139.7	141.9
82.5°	61.8	65.5	96.3	101.5	121.3	160.3	135.3	116.2	100.0	69.1	62.5
85°	33.8	29.4	50.7	52.9	58.1	59.6	64.0	63.3	58.1	33.8	34.5
87.5°	6.7	8.1	14.7	11.0	12.5	11.0	14.7	20.6	21.3	11.7	9.6
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)