

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: P452423

Luminaire Tested: **GALN-SA3B-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452423
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-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 13097 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

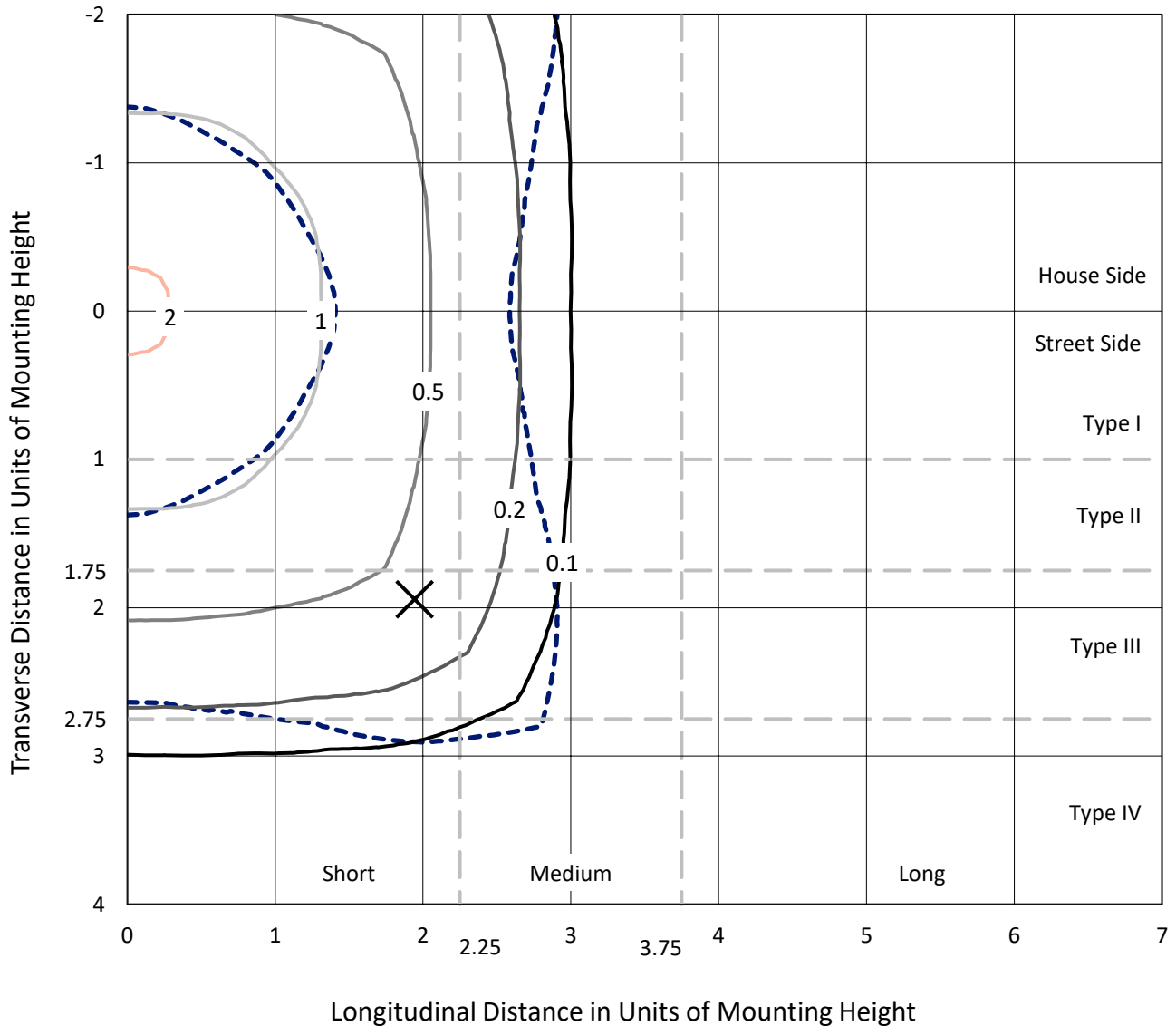
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

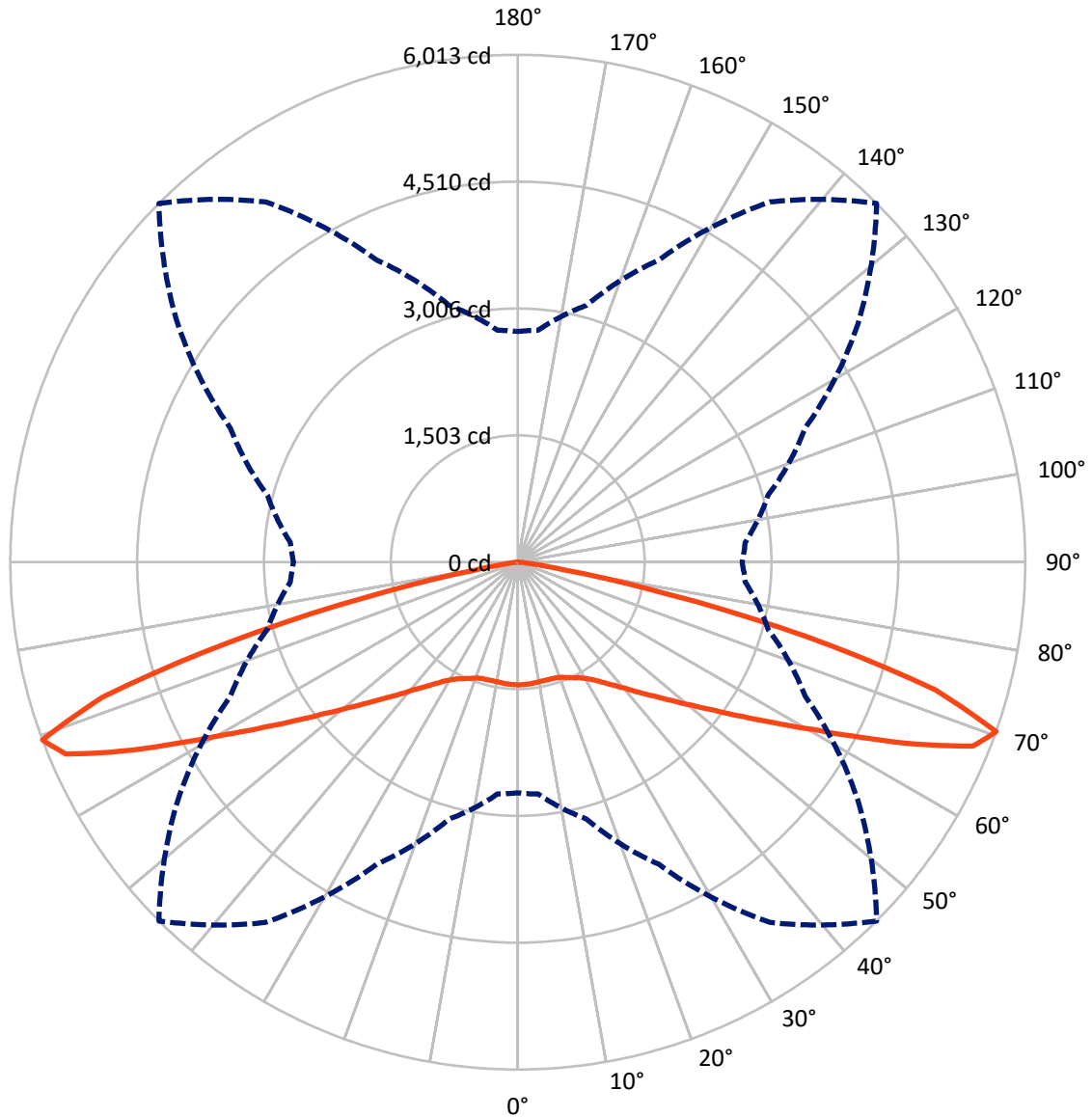
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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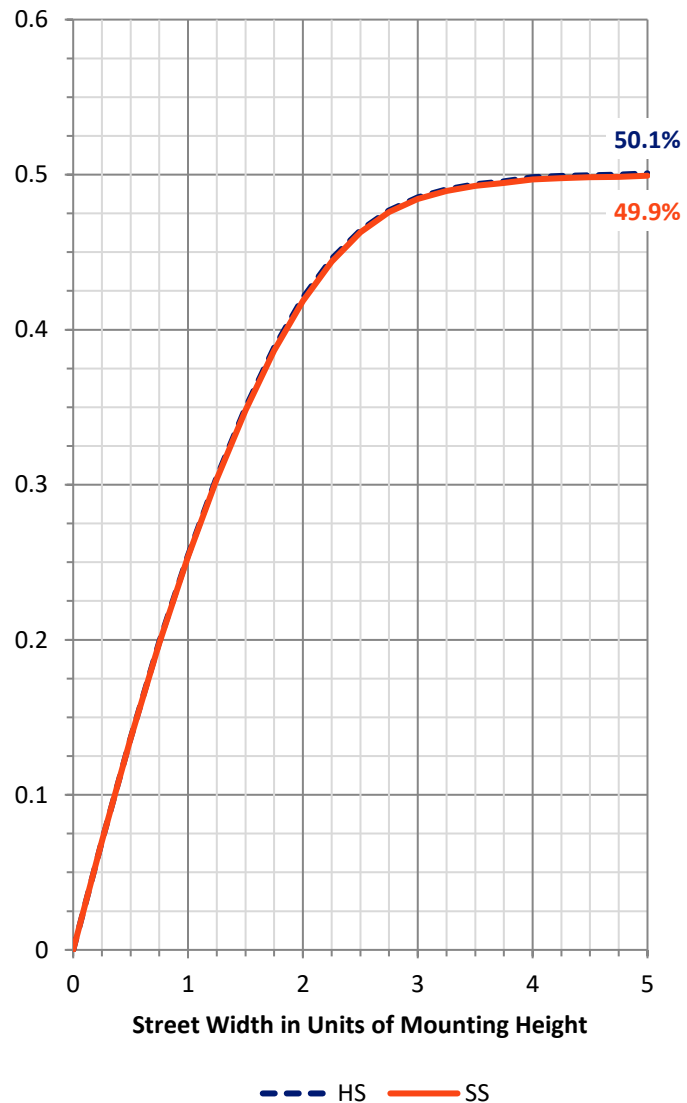
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6548.5	0.0	6548.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6548.5	0.0	6548.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13097.0	0.0	13097.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	404.7	3.1
20°-30°	692.2	5.3
30°-40°	1098.6	8.4
40°-50°	1772.4	13.5
50°-60°	2883.7	22.0
60°-70°	4180.3	31.9
70°-80°	1854.2	14.2
80°-90°	73.1	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°	13097.0	100.0
0°-180°	13097.0	100.0



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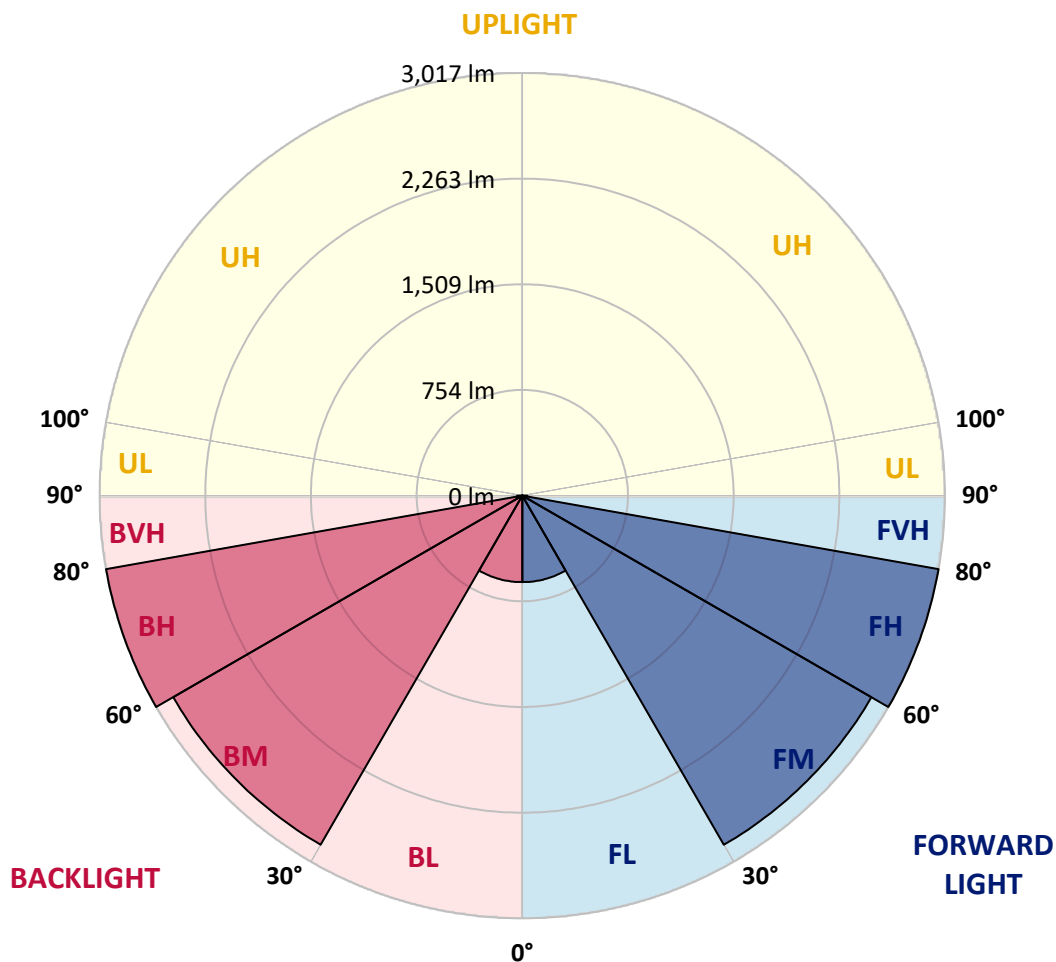
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.4	4.7			
FM (30°-60°)	2877.3	22.0			
FH (60°-80°)	3017.2	23.0			G2/5000
FVH (80°-90°)	36.6	0.3			G1/100
BL (0°-30°)	617.4	4.7	B2/1000		
BM (30°-60°)	2877.3	22.0	B3/5000		
BH (60°-80°)	3017.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	36.6	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°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1454.4	1455.7	1453.7	1452.3	1451.6	1451.6	1450.9	1451.6	1455.7	1456.4	1454.4
5°	1450.2	1451.6	1450.9	1449.5	1448.8	1448.8	1448.1	1447.5	1450.9	1452.3	1451.6
7.5°	1444.7	1445.4	1444.7	1444.0	1444.7	1444.0	1441.9	1440.6	1443.3	1443.3	1442.6
10°	1435.0	1436.4	1435.7	1436.4	1437.8	1437.8	1435.0	1432.3	1433.0	1431.6	1431.6
12.5°	1423.3	1425.4	1426.1	1428.8	1432.3	1436.4	1430.2	1424.0	1422.6	1421.9	1421.2
15°	1415.7	1417.8	1420.5	1423.3	1429.5	1438.5	1429.5	1419.8	1417.1	1414.3	1412.9
17.5°	1413.6	1416.4	1420.5	1424.7	1433.0	1441.9	1434.3	1424.7	1417.8	1413.6	1412.3
20°	1419.2	1421.2	1427.4	1435.0	1446.8	1455.7	1448.1	1437.8	1427.4	1421.2	1419.2
22.5°	1430.2	1433.7	1441.2	1455.1	1471.6	1484.7	1474.4	1457.1	1440.6	1432.3	1429.5
25°	1454.4	1457.1	1466.1	1484.7	1504.1	1516.5	1505.4	1485.4	1462.6	1451.6	1448.1
27.5°	1490.9	1495.1	1504.7	1526.8	1542.7	1549.6	1542.0	1528.2	1511.7	1499.9	1497.2
30°	1542.7	1547.5	1562.0	1585.5	1595.9	1600.0	1596.6	1587.6	1575.8	1563.4	1560.7
32.5°	1612.4	1615.2	1631.8	1653.8	1663.5	1664.9	1660.7	1656.6	1637.3	1616.6	1615.2
35°	1690.4	1695.3	1715.3	1741.5	1750.5	1751.2	1742.9	1736.7	1713.9	1697.3	1697.3
37.5°	1794.0	1796.0	1815.4	1845.0	1854.7	1851.9	1847.8	1842.3	1818.1	1796.7	1797.4
40°	1915.4	1919.6	1936.2	1970.7	1970.7	1967.2	1970.0	1965.8	1941.7	1921.0	1921.7
42.5°	2059.7	2061.8	2081.8	2118.4	2115.6	2108.7	2111.5	2106.0	2090.8	2067.3	2059.0
45°	2213.6	2221.9	2256.4	2291.6	2286.1	2264.0	2275.1	2273.7	2259.9	2224.7	2226.8
47.5°	2399.3	2413.1	2446.3	2488.4	2482.1	2447.6	2460.1	2468.3	2449.0	2410.4	2403.5
50°	2608.5	2617.4	2666.4	2705.8	2700.3	2663.7	2692.0	2693.4	2645.0	2590.5	2590.5
52.5°	2831.4	2840.4	2906.6	2968.1	2971.5	2918.4	2941.2	2939.8	2861.1	2789.3	2775.5
55°	3081.3	3085.4	3171.0	3261.4	3280.8	3229.0	3231.8	3204.1	3102.0	3018.5	3010.9
57.5°	3339.4	3354.6	3449.2	3566.5	3623.8	3592.1	3577.6	3503.7	3405.0	3309.1	3304.2
60°	3625.2	3625.9	3748.8	3887.5	4003.5	4024.9	3965.5	3866.8	3739.1	3612.1	3606.6
62.5°	3823.3	3853.0	4008.3	4243.0	4450.7	4570.8	4414.2	4207.1	3955.8	3750.8	3730.1
65°	3864.0	3884.0	4120.8	4518.4	4942.9	5201.7	4839.4	4399.0	3970.3	3697.0	3683.2
67.5°	3534.8	3556.2	3875.1	4485.3	5288.0	5818.8	5115.5	4306.5	3724.6	3386.4	3359.5
70°	2734.1	2758.2	3152.4	3948.2	5211.4	6012.8	4918.7	3756.3	3071.6	2706.5	2657.5
72.5°	1453.7	1542.7	1879.6	2709.9	4229.9	5176.9	4033.1	2741.0	1981.0	1619.3	1554.4
75°	530.8	541.8	729.6	1201.7	2460.7	3550.0	2555.3	1307.3	751.7	580.5	550.8
77.5°	219.5	218.8	240.2	363.1	893.9	1818.1	997.4	383.8	239.5	221.6	218.8
80°	129.8	129.8	142.9	151.2	235.4	548.8	263.0	171.2	143.6	131.1	133.2
82.5°	58.0	61.4	90.4	95.3	113.9	150.5	127.0	109.1	93.9	64.9	58.7
85°	31.8	27.6	47.6	49.7	54.5	55.9	60.1	59.4	54.5	31.8	32.4
87.5°	6.2	7.6	13.8	10.4	11.7	10.4	13.8	19.3	20.0	11.0	9.0
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)