

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: P528301

Luminaire Tested: **GALN-SA3B-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528301
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-SA3B-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 8578 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

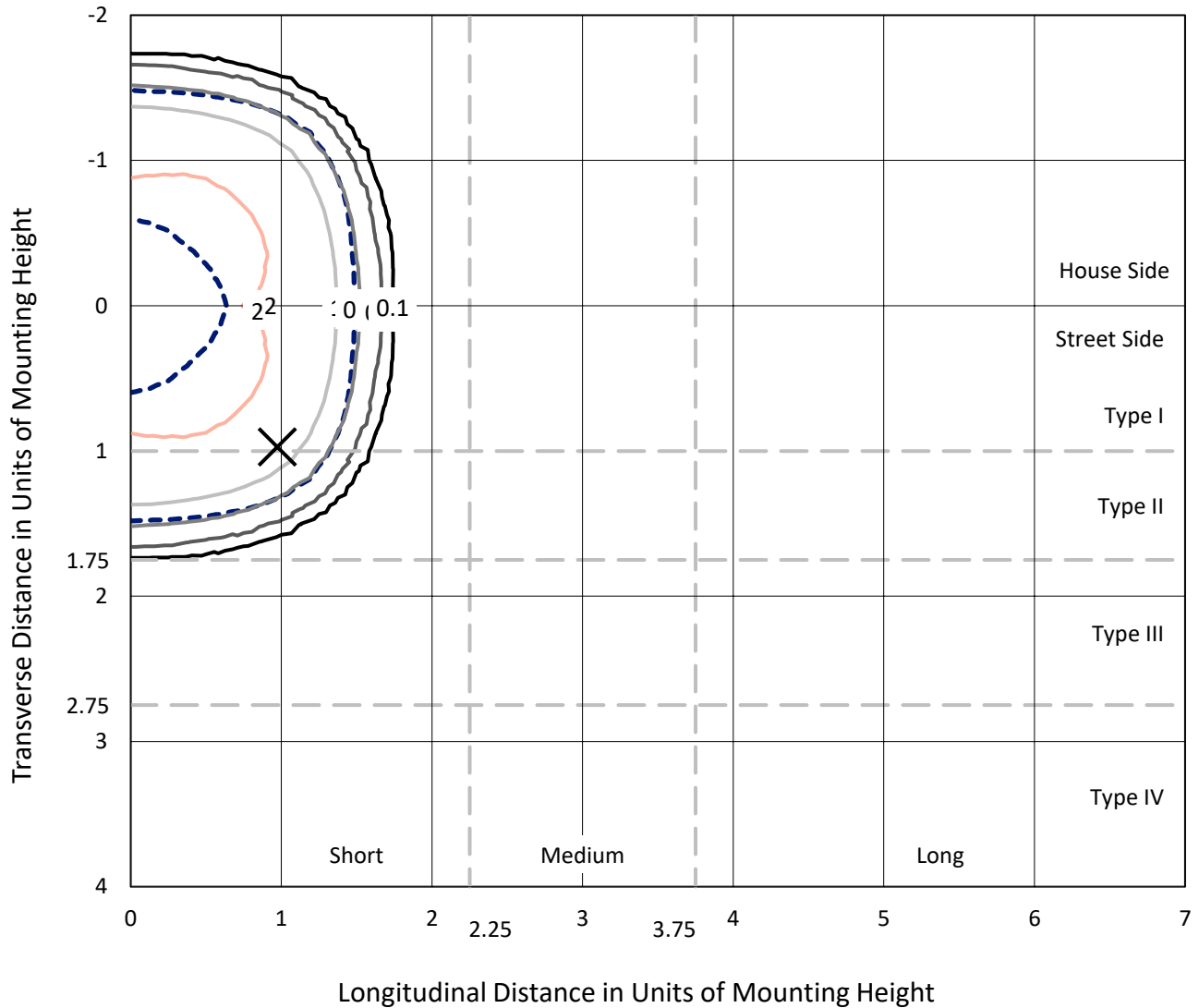
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

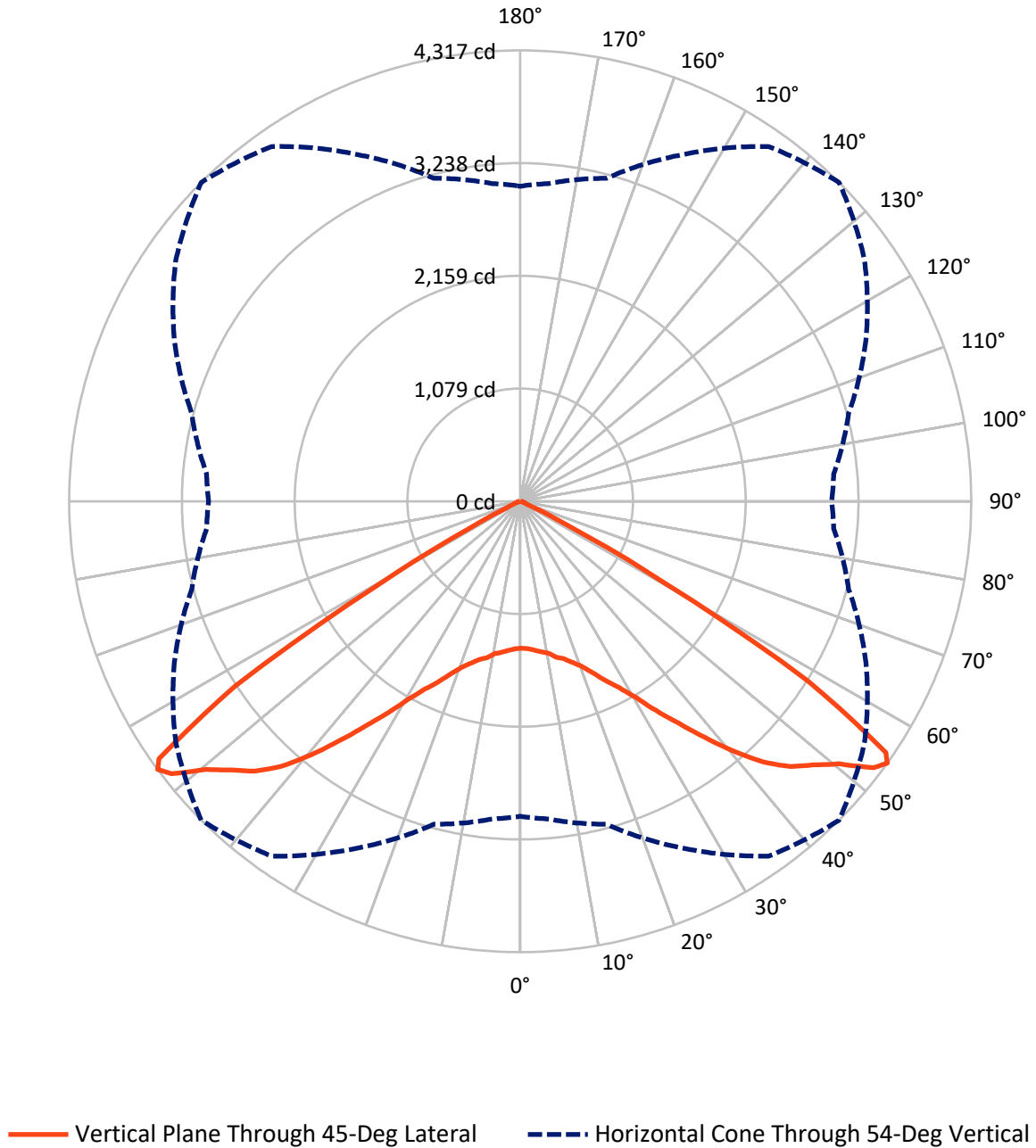
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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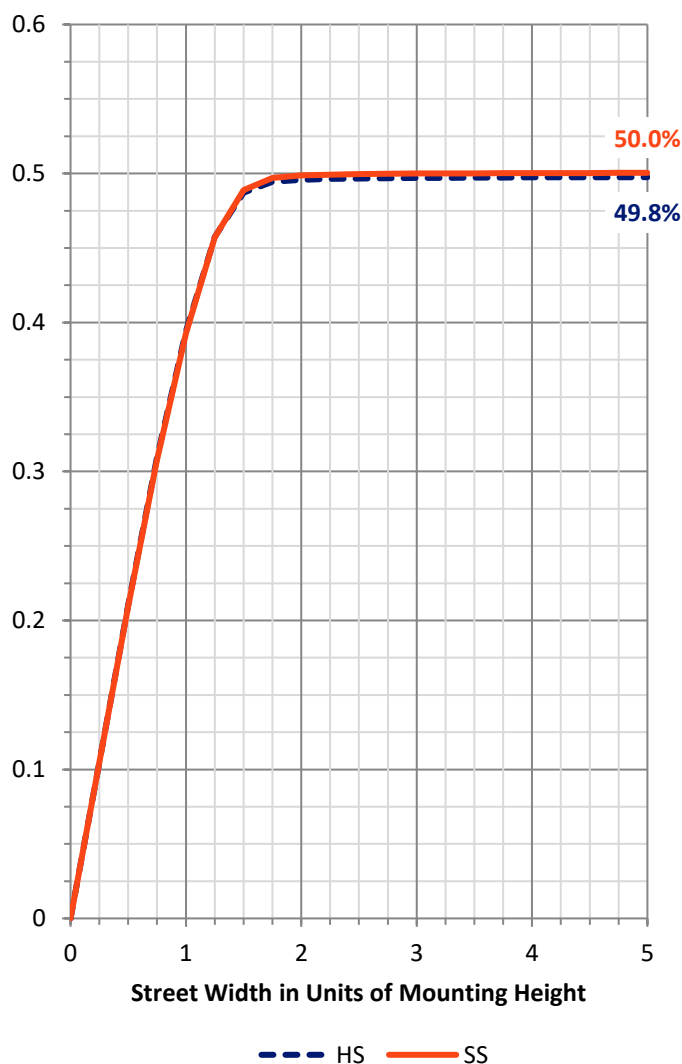
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4289.0	0.0	4289.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4289.0	0.0	4289.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8578.0	0.0	8578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.6
10°-20°	445.8	5.2
20°-30°	873.8	10.2
30°-40°	1571.2	18.3
40°-50°	2689.6	31.4
50°-60°	2602.5	30.3
60°-70°	222.8	2.6
70°-80°	26.4	0.3
80°-90°	8.3	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°	8578.0	100.0
0°-180°	8578.0	100.0

Coefficient of Utilization



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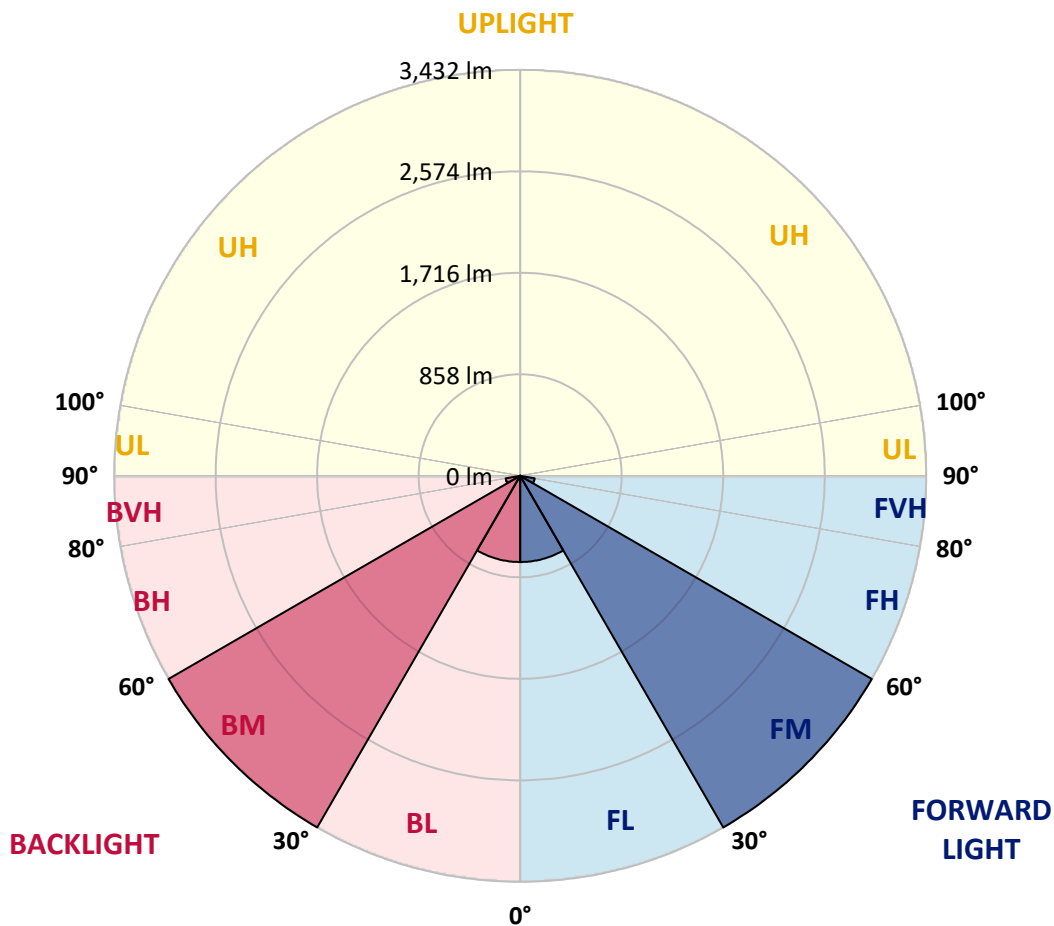
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.6	8.5			
FM (30°-60°)	3431.6	40.0			
FH (60°-80°)	124.6	1.5			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	728.6	8.5	B2/1000		
BM (30°-60°)	3431.6	40.0	B3/5000		
BH (60°-80°)	124.6	1.5	B1/500		G0/660
BVH (80°-90°)	4.1	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°	1406.5	1406.5	1406.5	1406.5	1406.5	1406.5	1406.5	1406.5	1406.5	1406.5	1406.5
2.5°	1413.3	1421.5	1416.0	1420.1	1420.1	1413.3	1417.4	1401.1	1412.0	1403.8	1405.2
5°	1435.1	1433.7	1433.7	1435.1	1429.6	1432.3	1426.9	1421.5	1417.4	1412.0	1428.3
7.5°	1462.2	1462.2	1452.7	1455.4	1452.7	1456.8	1445.9	1435.1	1431.0	1426.9	1424.2
10°	1488.1	1485.3	1481.3	1493.5	1484.0	1478.5	1473.1	1466.3	1451.4	1445.9	1440.5
12.5°	1526.1	1524.8	1519.3	1531.5	1526.1	1531.5	1511.2	1493.5	1490.8	1473.1	1482.6
15°	1571.0	1583.2	1573.7	1573.7	1571.0	1564.2	1556.0	1547.9	1523.4	1516.6	1518.0
17.5°	1629.4	1625.3	1626.7	1626.7	1640.3	1622.6	1606.3	1585.9	1573.7	1569.6	1556.0
20°	1685.1	1690.5	1689.2	1698.7	1706.9	1687.8	1670.2	1667.4	1633.5	1638.9	1619.9
22.5°	1783.0	1778.9	1785.7	1792.5	1787.0	1784.3	1768.0	1747.6	1717.7	1704.1	1701.4
25°	1886.2	1879.4	1867.2	1883.5	1891.7	1903.9	1872.6	1861.8	1815.6	1795.2	1796.5
27.5°	1974.6	1984.1	1997.7	2004.5	2024.9	2020.8	1999.0	1963.7	1928.4	1905.3	1890.3
30°	2095.5	2101.0	2124.1	2133.6	2168.9	2178.4	2144.4	2103.7	2041.2	2011.3	1993.6
32.5°	2207.0	2245.0	2243.6	2291.2	2348.3	2387.7	2326.5	2264.0	2201.5	2166.2	2134.9
35°	2387.7	2380.9	2420.3	2470.6	2563.0	2607.8	2541.3	2469.2	2374.1	2317.0	2292.6
37.5°	2556.2	2558.9	2611.9	2692.1	2798.1	2867.4	2809.0	2690.7	2592.9	2519.5	2485.5
40°	2800.8	2806.3	2860.6	2951.7	3071.3	3146.0	3078.0	2958.5	2828.0	2770.9	2770.9
42.5°	3087.6	3110.7	3146.0	3224.8	3332.2	3415.1	3353.9	3260.1	3128.3	3054.9	3065.8
45°	3382.5	3393.3	3416.4	3533.3	3583.6	3624.3	3567.3	3523.8	3435.5	3345.8	3330.8
47.5°	3658.3	3662.4	3730.3	3767.0	3806.5	3772.5	3809.2	3752.1	3652.9	3565.9	3548.2
50°	3780.6	3773.8	3870.3	3981.8	4011.7	3951.9	3920.6	3882.6	3731.7	3627.1	3580.9
52.5°	3424.6	3464.0	3643.4	3953.2	4187.0	4237.2	4055.1	3879.8	3598.5	3394.7	3363.4
54°	3016.9	3053.6	3201.7	3661.0	4147.5	4317.4	4023.9	3651.5	3254.7	3012.8	2981.6
55°	2613.3	2572.5	2841.6	3310.4	3962.7	4246.8	3900.2	3356.6	2902.7	2681.2	2637.7
57.5°	1414.7	1421.5	1648.4	2091.4	2784.5	3256.1	2875.6	2270.8	1715.0	1466.3	1444.6
60°	448.5	459.3	558.5	845.3	1330.4	1588.6	1361.7	911.9	630.6	505.5	485.1
62.5°	140.0	145.4	159.0	236.5	364.2	520.5	407.7	244.6	182.1	167.2	169.9
65°	85.6	85.6	87.0	92.4	108.7	126.4	122.3	107.4	103.3	100.6	99.2
67.5°	55.7	54.4	57.1	61.2	63.9	65.2	69.3	73.4	72.0	69.3	69.3
70°	34.0	32.6	35.3	40.8	42.1	44.8	48.9	54.4	53.0	50.3	51.6
72.5°	19.0	19.0	20.4	24.5	28.5	31.3	35.3	39.4	40.8	39.4	39.4
75°	6.8	8.2	10.9	14.9	17.7	21.7	25.8	29.9	34.0	31.3	29.9
77.5°	2.7	2.7	5.4	9.5	13.6	17.7	24.5	28.5	31.3	28.5	25.8
80°	1.4	1.4	4.1	8.2	12.2	16.3	20.4	24.5	25.8	23.1	20.4
82.5°	1.4	1.4	4.1	8.2	12.2	14.9	21.7	24.5	27.2	24.5	20.4
85°	0.0	1.4	4.1	8.2	10.9	12.2	12.2	8.2	6.8	4.1	4.1
87.5°	0.0	0.0	1.4	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)