

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: P529003

Luminaire Tested: **GALN-SA4A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529003
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-SA4A-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 9136 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

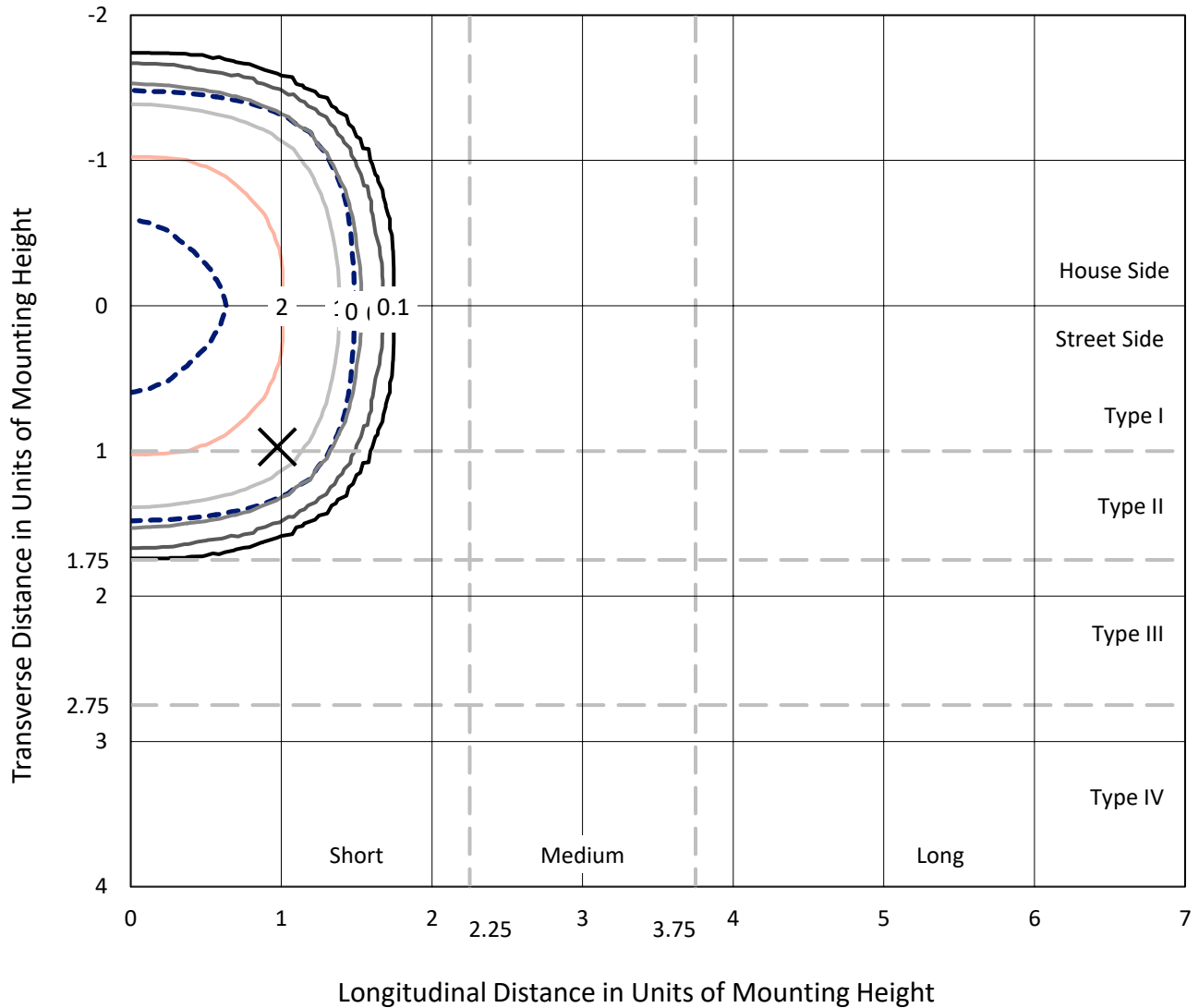
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

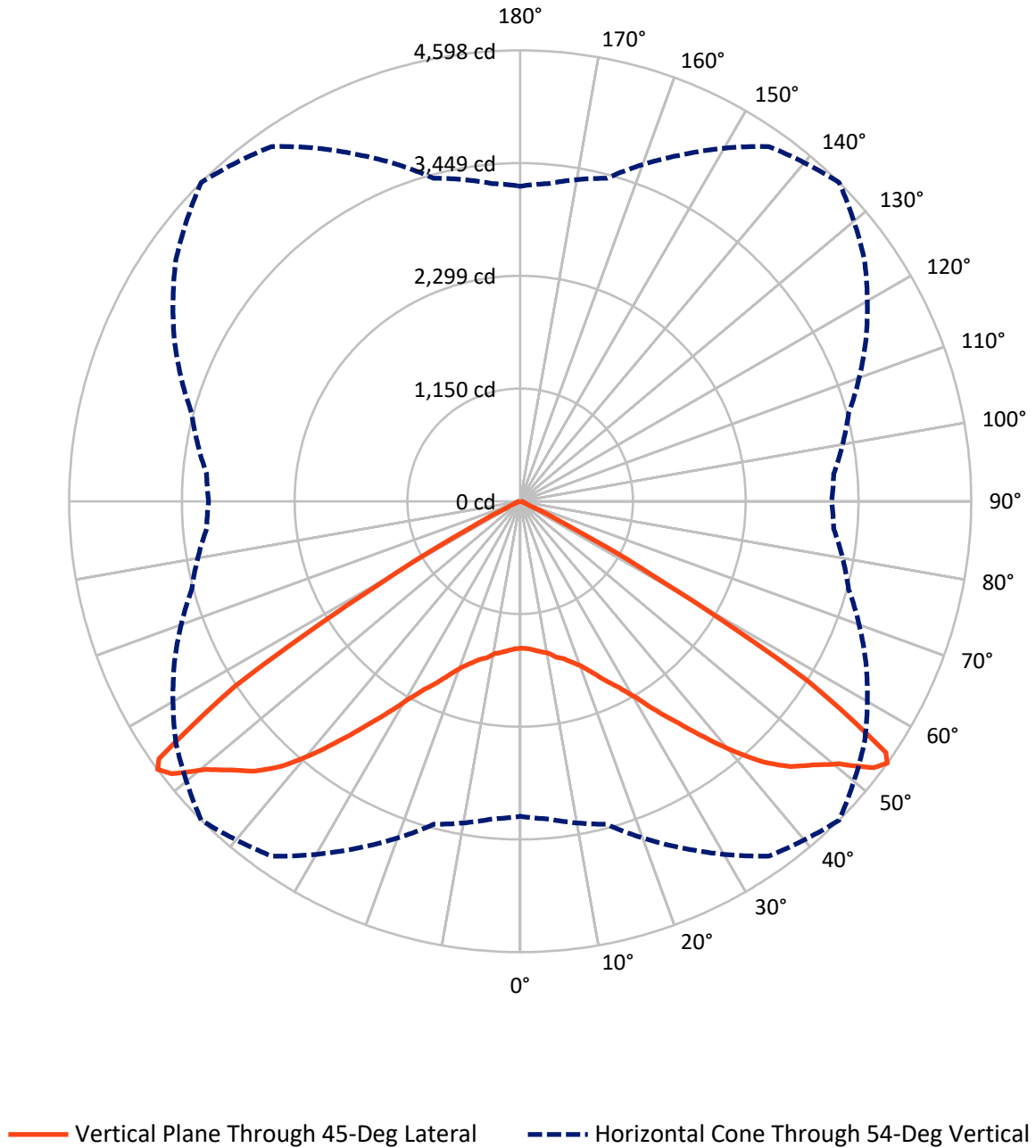
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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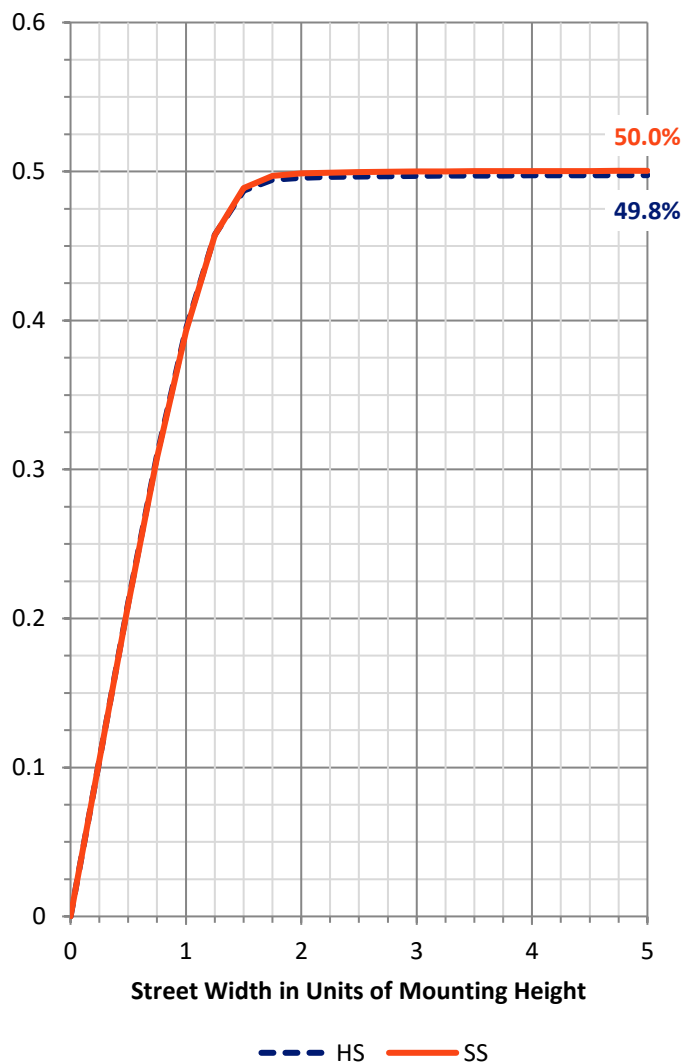
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4568.0	0.0	4568.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4568.0	0.0	4568.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9136.0	0.0	9136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.6
10°-20°	474.8	5.2
20°-30°	930.6	10.2
30°-40°	1673.4	18.3
40°-50°	2864.6	31.4
50°-60°	2771.7	30.3
60°-70°	237.3	2.6
70°-80°	28.1	0.3
80°-90°	8.8	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°	9136.0	100.0
0°-180°	9136.0	100.0

Coefficient of Utilization



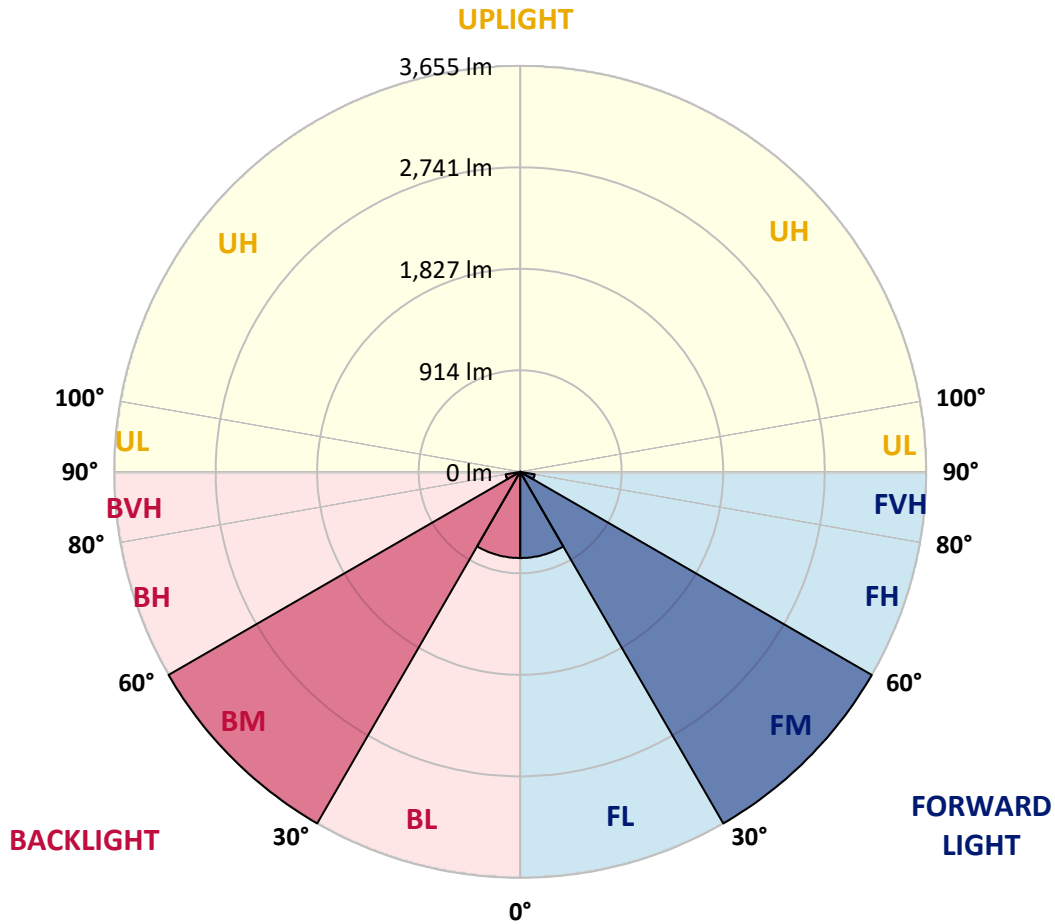
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.0	8.5			
FM (30°-60°)	3654.9	40.0			
FH (60°-80°)	132.7	1.5			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	776.0	8.5	B2/1000		
BM (30°-60°)	3654.9	40.0	B3/5000		
BH (60°-80°)	132.7	1.5	B1/500		G0/660
BVH (80°-90°)	4.4	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°	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0
2.5°	1505.3	1513.9	1508.2	1512.5	1512.5	1505.3	1509.6	1492.2	1503.8	1495.1	1496.6
5°	1528.4	1527.0	1527.0	1528.4	1522.6	1525.5	1519.7	1513.9	1509.6	1503.8	1521.2
7.5°	1557.4	1557.4	1547.2	1550.1	1547.2	1551.6	1540.0	1528.4	1524.1	1519.7	1516.8
10°	1584.9	1582.0	1577.6	1590.7	1580.5	1574.7	1568.9	1561.7	1545.8	1540.0	1534.2
12.5°	1625.4	1623.9	1618.2	1631.2	1625.4	1631.2	1609.5	1590.7	1587.8	1568.9	1579.1
15°	1673.2	1686.2	1676.0	1676.0	1673.2	1665.9	1657.2	1648.5	1622.5	1615.3	1616.7
17.5°	1735.4	1731.0	1732.5	1732.5	1747.0	1728.1	1710.8	1689.1	1676.0	1671.7	1657.2
20°	1794.7	1800.5	1799.1	1809.2	1817.9	1797.6	1778.8	1775.9	1739.7	1745.5	1725.3
22.5°	1898.9	1894.6	1901.8	1909.1	1903.3	1900.4	1883.0	1861.3	1829.5	1815.0	1812.1
25°	2008.9	2001.7	1988.7	2006.0	2014.7	2027.8	1994.5	1982.9	1933.7	1912.0	1913.4
27.5°	2103.0	2113.1	2127.6	2134.9	2156.6	2152.2	2129.1	2091.4	2053.8	2029.2	2013.3
30°	2231.8	2237.6	2262.2	2272.4	2310.0	2320.1	2283.9	2240.5	2173.9	2142.1	2123.3
32.5°	2350.5	2391.0	2389.6	2440.3	2501.0	2543.0	2477.9	2411.3	2344.7	2307.1	2273.8
35°	2543.0	2535.8	2577.8	2631.3	2729.7	2777.5	2706.6	2629.9	2528.5	2467.8	2441.7
37.5°	2722.5	2725.4	2781.8	2867.2	2980.1	3053.9	2991.7	2865.8	2761.6	2683.4	2647.2
40°	2983.0	2988.8	3046.7	3143.7	3271.0	3350.6	3278.3	3150.9	3012.0	2951.2	2951.2
42.5°	3288.4	3313.0	3350.6	3434.6	3548.9	3637.2	3572.1	3472.2	3331.8	3253.7	3265.2
45°	3602.5	3614.1	3638.7	3763.1	3816.7	3860.1	3799.3	3753.0	3658.9	3563.4	3547.5
47.5°	3896.3	3900.6	3973.0	4012.1	4054.1	4017.9	4057.0	3996.2	3890.5	3797.9	3779.1
50°	4026.6	4019.3	4122.1	4240.8	4272.6	4208.9	4175.6	4135.1	3974.5	3863.0	3813.8
52.5°	3647.4	3689.3	3880.4	4210.4	4459.3	4512.9	4318.9	4132.2	3832.6	3615.5	3582.2
54°	3213.1	3252.2	3410.0	3899.2	4417.3	4598.3	4285.6	3889.1	3466.4	3208.8	3175.5
55°	2783.3	2739.9	3026.4	3525.8	4220.5	4523.0	4153.9	3575.0	3091.6	2855.6	2809.3
57.5°	1506.7	1513.9	1755.6	2227.5	2965.6	3467.9	3062.6	2418.5	1826.6	1561.7	1538.5
60°	477.6	489.2	594.9	900.3	1417.0	1692.0	1450.3	971.2	671.6	538.4	516.7
62.5°	149.1	154.9	169.3	251.8	387.9	554.3	434.2	260.5	193.9	178.0	180.9
65°	91.2	91.2	92.6	98.4	115.8	134.6	130.3	114.3	110.0	107.1	105.7
67.5°	59.3	57.9	60.8	65.1	68.0	69.5	73.8	78.2	76.7	73.8	73.8
70°	36.2	34.7	37.6	43.4	44.9	47.8	52.1	57.9	56.4	53.6	55.0
72.5°	20.3	20.3	21.7	26.1	30.4	33.3	37.6	42.0	43.4	42.0	42.0
75°	7.2	8.7	11.6	15.9	18.8	23.2	27.5	31.8	36.2	33.3	31.8
77.5°	2.9	2.9	5.8	10.1	14.5	18.8	26.1	30.4	33.3	30.4	27.5
80°	1.4	1.4	4.3	8.7	13.0	17.4	21.7	26.1	27.5	24.6	21.7
82.5°	1.4	1.4	4.3	8.7	13.0	15.9	23.2	26.1	28.9	26.1	21.7
85°	0.0	1.4	4.3	8.7	11.6	13.0	13.0	8.7	7.2	4.3	4.3
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)