

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: P527677

Luminaire Tested: **GALN-SA2D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527677
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 8938 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

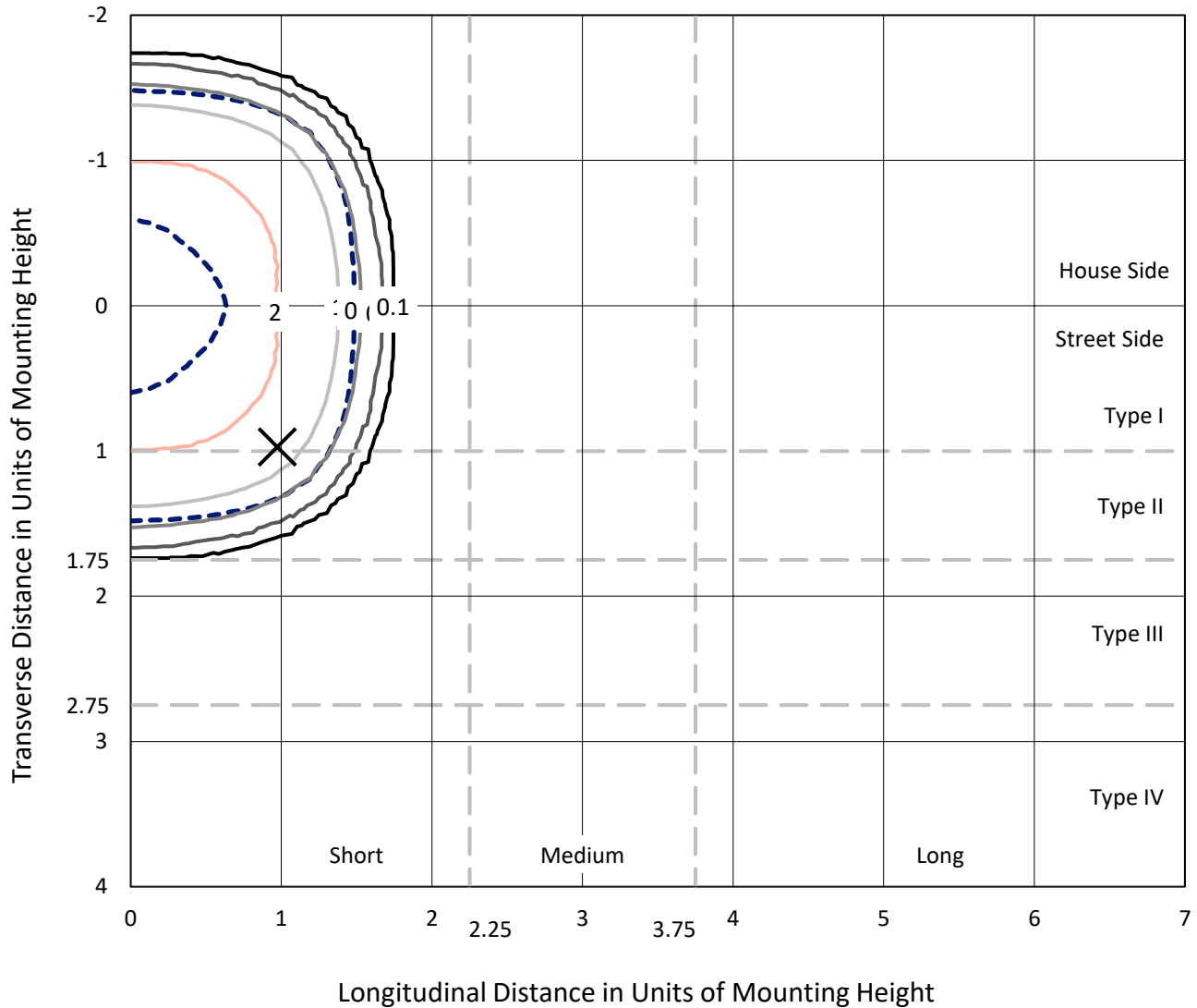
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

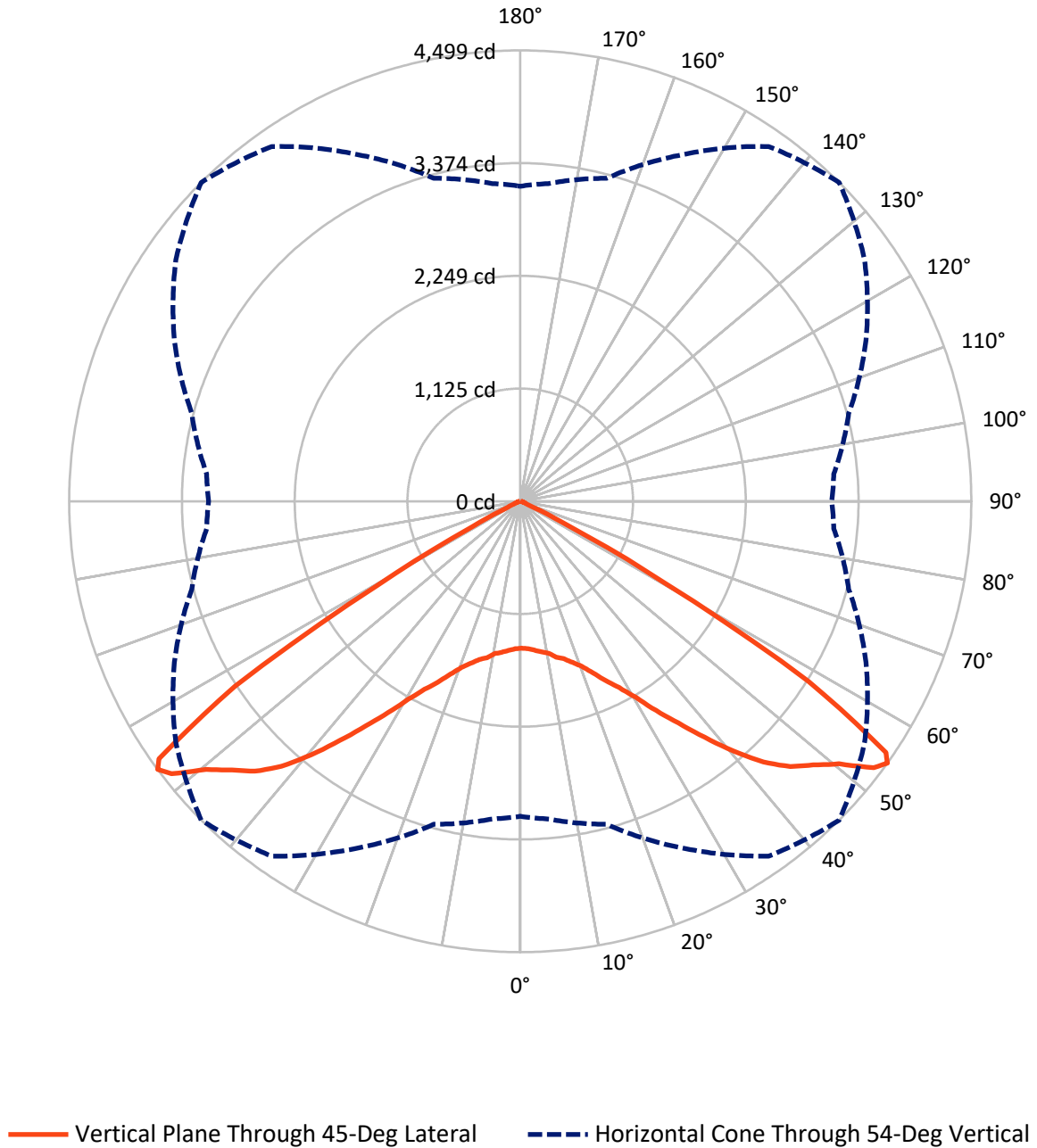
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	4469.0	0.0	4469.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4469.0	0.0	4469.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8938.0	0.0	8938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	1.6
10°-20°	464.5	5.2
20°-30°	910.4	10.2
30°-40°	1637.2	18.3
40°-50°	2802.5	31.4
50°-60°	2711.7	30.3
60°-70°	232.1	2.6
70°-80°	27.5	0.3
80°-90°	8.6	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°	8938.0	100.0
0°-180°	8938.0	100.0

Coefficient of Utilization



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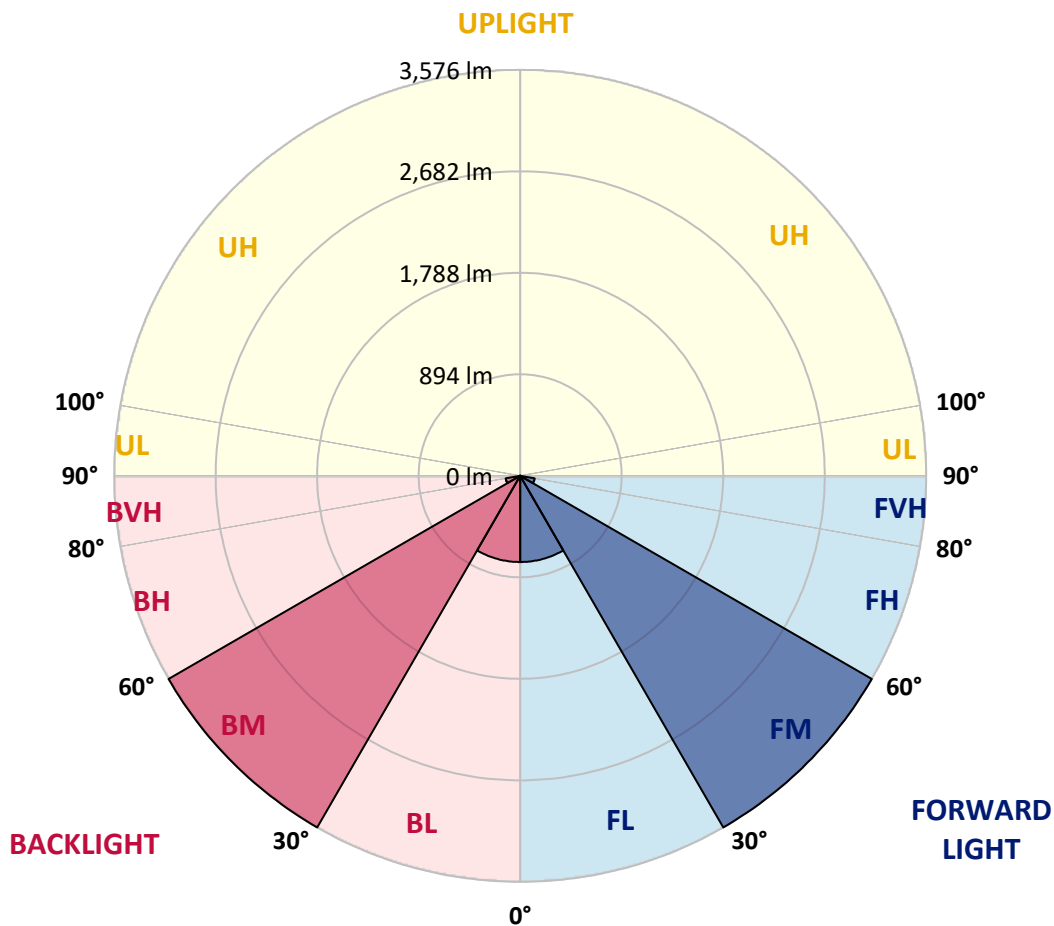
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.2	8.5			
FM (30°-60°)	3575.7	40.0			
FH (60°-80°)	129.8	1.5			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	759.2	8.5	B2/1000		
BM (30°-60°)	3575.7	40.0	B3/5000		
BH (60°-80°)	129.8	1.5	B1/500		G0/660
BVH (80°-90°)	4.3	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°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1472.6	1481.1	1475.5	1479.7	1479.7	1472.6	1476.9	1459.9	1471.2	1462.7	1464.1
5°	1495.3	1493.9	1493.9	1495.3	1489.6	1492.5	1486.8	1481.1	1476.9	1471.2	1488.2
7.5°	1523.6	1523.6	1513.7	1516.5	1513.7	1517.9	1506.6	1495.3	1491.0	1486.8	1484.0
10°	1550.5	1547.7	1543.4	1556.2	1546.3	1540.6	1534.9	1527.9	1512.3	1506.6	1501.0
12.5°	1590.2	1588.7	1583.1	1595.8	1590.2	1595.8	1574.6	1556.2	1553.3	1534.9	1544.8
15°	1636.9	1649.6	1639.7	1639.7	1636.9	1629.8	1621.3	1612.8	1587.3	1580.2	1581.7
17.5°	1697.8	1693.5	1694.9	1694.9	1709.1	1690.7	1673.7	1652.5	1639.7	1635.5	1621.3
20°	1755.8	1761.5	1760.1	1770.0	1778.5	1758.7	1740.3	1737.4	1702.0	1707.7	1687.9
22.5°	1857.8	1853.5	1860.6	1867.7	1862.0	1859.2	1842.2	1821.0	1789.8	1775.7	1772.8
25°	1965.4	1958.3	1945.6	1962.6	1971.1	1983.8	1951.2	1939.9	1891.8	1870.5	1871.9
27.5°	2057.4	2067.4	2081.5	2088.6	2109.8	2105.6	2082.9	2046.1	2009.3	1985.2	1969.6
30°	2183.5	2189.1	2213.2	2223.1	2259.9	2269.8	2234.4	2192.0	2126.8	2095.7	2077.3
32.5°	2299.6	2339.2	2337.8	2387.4	2446.8	2487.9	2424.2	2359.0	2293.9	2257.1	2224.5
35°	2487.9	2480.8	2521.9	2574.3	2670.6	2717.3	2647.9	2572.9	2473.7	2414.3	2388.8
37.5°	2663.5	2666.3	2721.5	2805.1	2915.5	2987.7	2926.9	2803.7	2701.7	2625.3	2589.9
40°	2918.4	2924.0	2980.7	3075.5	3200.1	3278.0	3207.2	3082.6	2946.7	2887.2	2887.2
42.5°	3217.1	3241.2	3278.0	3360.2	3472.0	3558.4	3494.7	3397.0	3259.6	3183.2	3194.5
45°	3524.4	3535.7	3559.8	3681.6	3734.0	3776.5	3717.0	3671.7	3579.6	3486.2	3470.6
47.5°	3811.9	3816.1	3886.9	3925.1	3966.2	3930.8	3969.0	3909.6	3806.2	3715.6	3697.2
50°	3939.3	3932.2	4032.8	4148.9	4180.0	4117.7	4085.1	4045.5	3888.3	3779.3	3731.1
52.5°	3568.3	3609.4	3796.3	4119.1	4362.7	4415.1	4225.3	4042.7	3749.6	3537.2	3504.6
54°	3143.5	3181.7	3336.1	3814.7	4321.6	4498.6	4192.8	3804.8	3391.3	3139.3	3106.7
55°	2723.0	2680.5	2960.8	3449.4	4129.0	4425.0	4063.9	3497.5	3024.6	2793.8	2748.4
57.5°	1474.0	1481.1	1717.6	2179.2	2901.4	3392.7	2996.2	2366.1	1787.0	1527.9	1505.2
60°	467.3	478.6	582.0	880.7	1386.3	1655.3	1418.8	950.1	657.0	526.7	505.5
62.5°	145.8	151.5	165.7	246.4	379.5	542.3	424.8	254.9	189.7	174.2	177.0
65°	89.2	89.2	90.6	96.3	113.3	131.7	127.4	111.9	107.6	104.8	103.4
67.5°	58.1	56.6	59.5	63.7	66.6	68.0	72.2	76.5	75.0	72.2	72.2
70°	35.4	34.0	36.8	42.5	43.9	46.7	51.0	56.6	55.2	52.4	53.8
72.5°	19.8	19.8	21.2	25.5	29.7	32.6	36.8	41.1	42.5	41.1	41.1
75°	7.1	8.5	11.3	15.6	18.4	22.7	26.9	31.2	35.4	32.6	31.2
77.5°	2.8	2.8	5.7	9.9	14.2	18.4	25.5	29.7	32.6	29.7	26.9
80°	1.4	1.4	4.2	8.5	12.7	17.0	21.2	25.5	26.9	24.1	21.2
82.5°	1.4	1.4	4.2	8.5	12.7	15.6	22.7	25.5	28.3	25.5	21.2
85°	0.0	1.4	4.2	8.5	11.3	12.7	12.7	8.5	7.1	4.2	4.2
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)