

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: P451960

Luminaire Tested: **GALN-SA2D-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11935 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

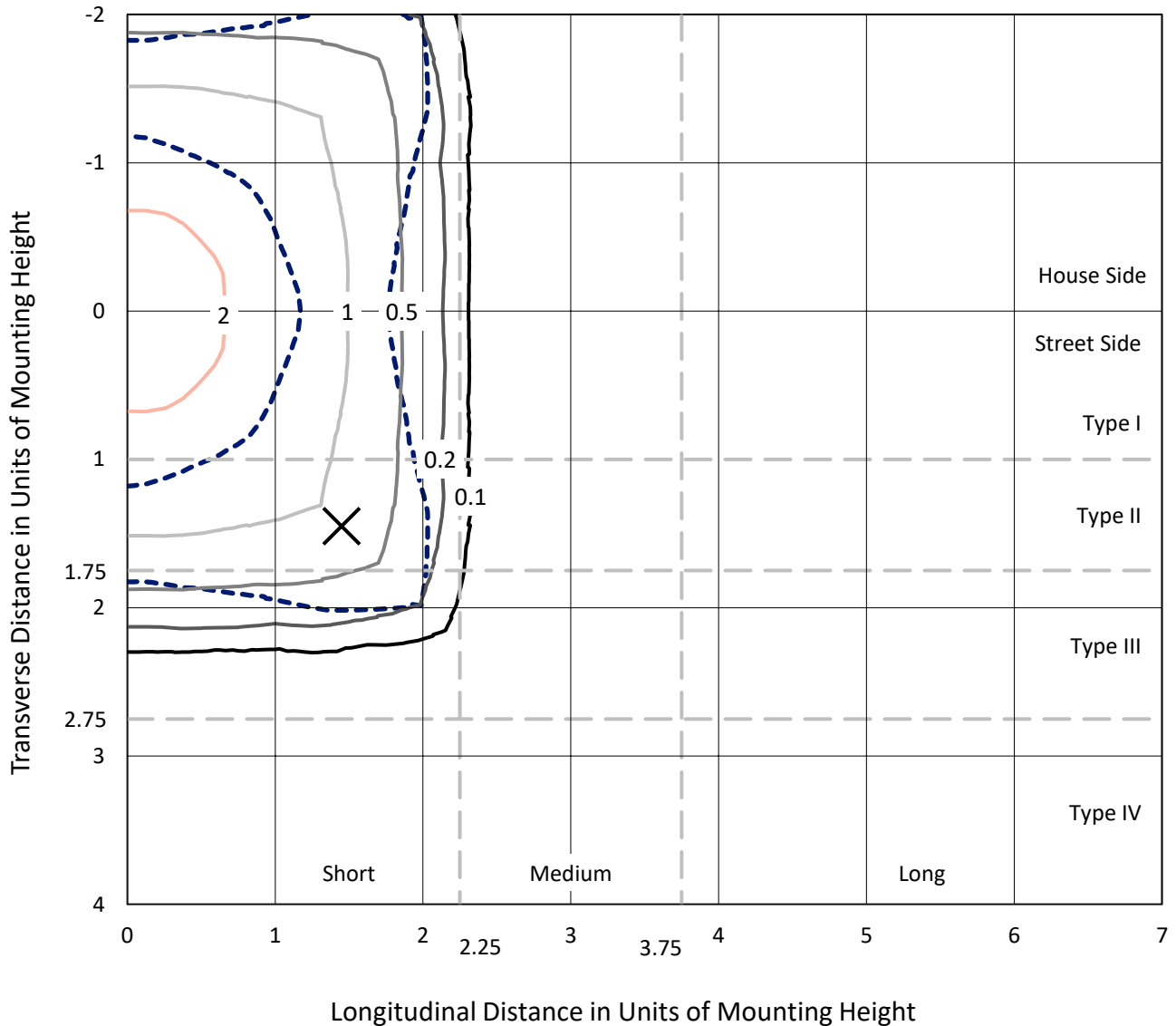
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

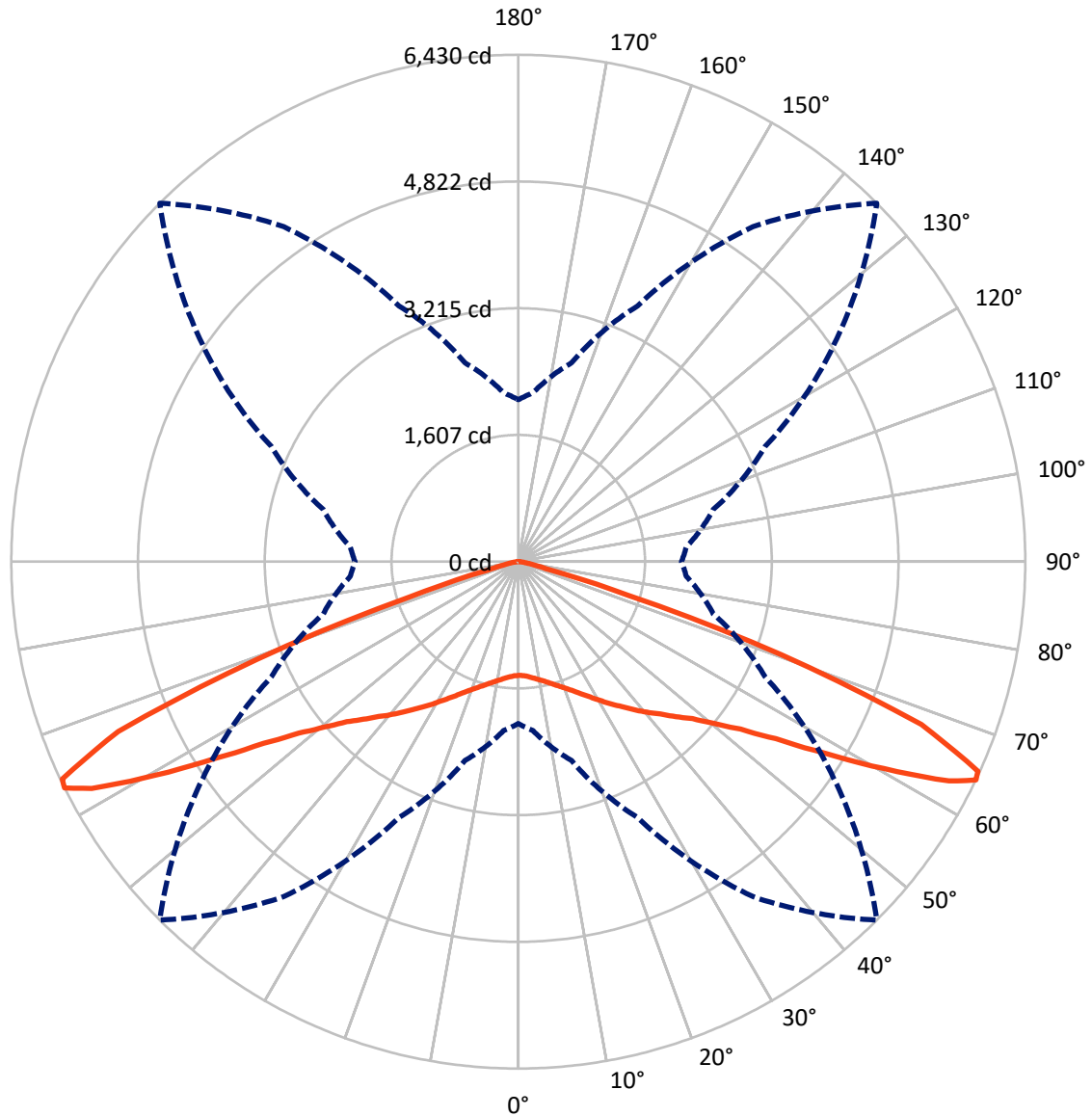
× Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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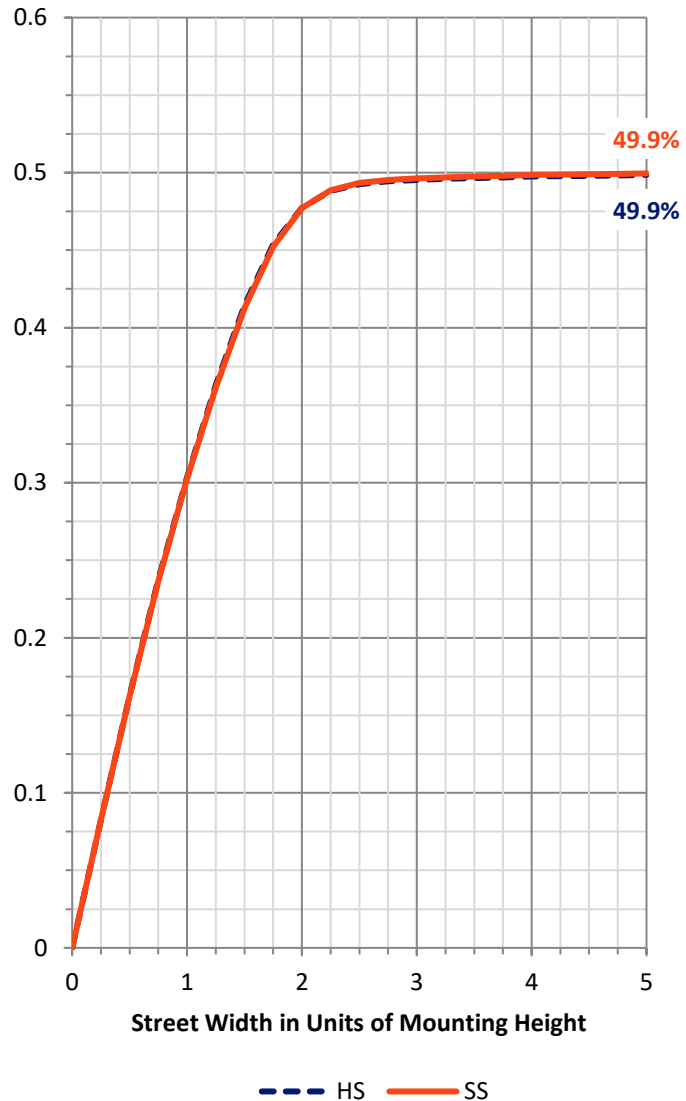
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5967.5	0.0	5967.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5967.5	0.0	5967.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11935.0	0.0	11935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.2
10°-20°	457.1	3.8
20°-30°	863.9	7.2
30°-40°	1430.7	12.0
40°-50°	2233.5	18.7
50°-60°	3452.9	28.9
60°-70°	2977.4	24.9
70°-80°	337.4	2.8
80°-90°	40.4	0.3
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°	11935.0	100.0
0°-180°	11935.0	100.0



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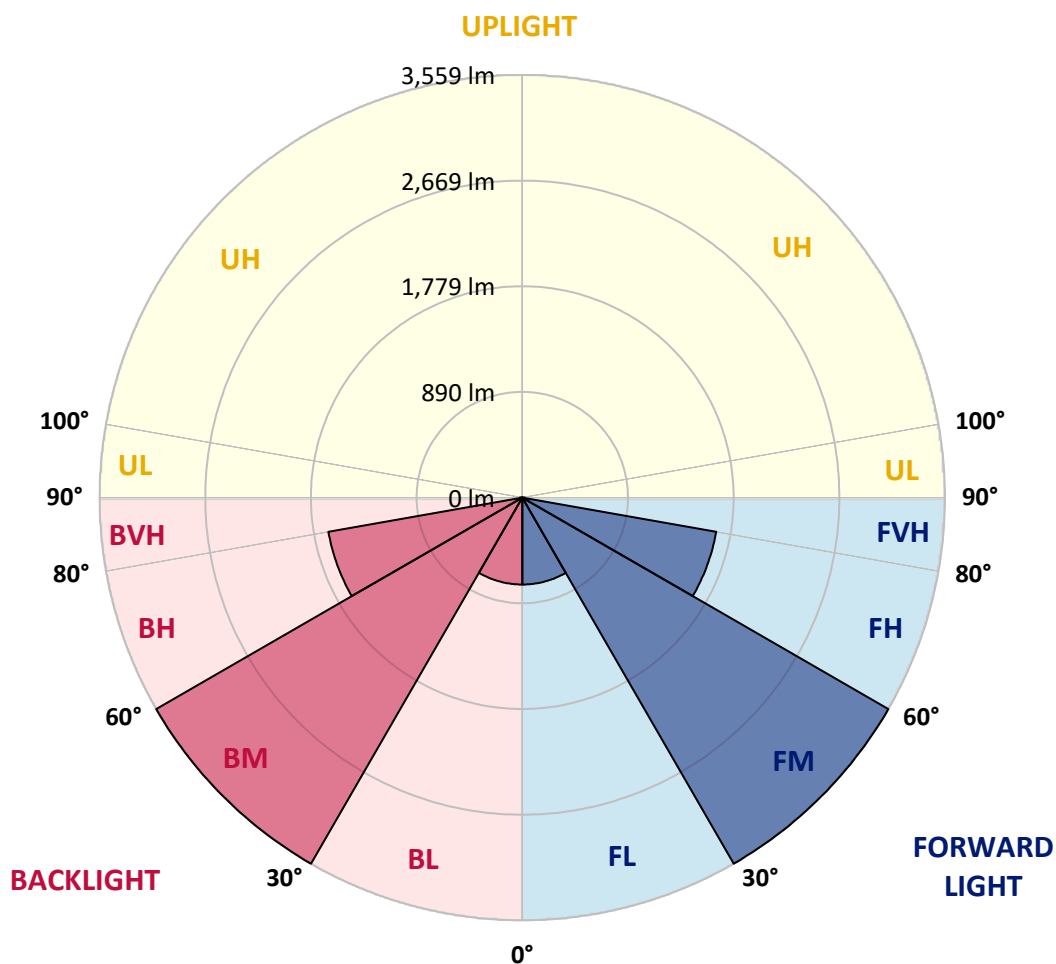
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.4	6.1			
FM	(30°-60°)	3558.5	29.8			
FH	(60°-80°)	1657.4	13.9			G1/1800
FVH	(80°-90°)	20.2	0.2			G1/100
BL	(0°-30°)	731.4	6.1	B2/1000		
BM	(30°-60°)	3558.5	29.8	B3/5000		
BH	(60°-80°)	1657.4	13.9	B3/2500		G1/1800
BVH	(80°-90°)	20.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5
2.5°	1448.2	1451.4	1448.9	1448.2	1447.6	1447.6	1447.6	1448.2	1450.8	1452.7	1451.4
5°	1466.6	1469.1	1467.8	1467.2	1466.6	1467.2	1465.9	1465.3	1467.2	1467.2	1466.6
7.5°	1489.3	1492.5	1491.2	1492.5	1493.1	1493.7	1490.6	1488.1	1487.4	1489.3	1488.1
10°	1520.3	1522.8	1523.5	1524.1	1525.4	1524.7	1520.9	1516.5	1515.9	1515.2	1514.6
12.5°	1555.1	1557.0	1557.6	1560.1	1562.0	1562.7	1558.2	1554.4	1548.1	1549.4	1546.8
15°	1594.3	1598.1	1597.4	1601.2	1606.3	1607.5	1603.1	1596.8	1591.1	1587.9	1586.0
17.5°	1642.3	1644.8	1643.6	1647.4	1653.7	1656.8	1653.0	1644.8	1639.1	1632.2	1628.4
20°	1699.2	1703.6	1704.9	1704.9	1710.6	1713.7	1708.0	1705.5	1696.7	1691.6	1688.4
22.5°	1763.7	1765.6	1769.4	1773.2	1778.8	1777.6	1775.7	1771.9	1763.7	1759.2	1754.2
25°	1836.4	1838.3	1847.7	1856.0	1857.9	1856.6	1854.1	1852.2	1844.6	1834.5	1830.7
27.5°	1921.1	1924.9	1937.5	1945.1	1945.1	1945.7	1940.7	1947.0	1930.6	1918.5	1917.3
30°	2027.3	2029.8	2040.6	2048.1	2044.3	2041.2	2039.9	2046.2	2028.5	2007.0	2002.0
32.5°	2132.2	2141.1	2150.5	2167.0	2153.7	2148.0	2146.8	2151.2	2130.9	2106.9	2100.0
35°	2244.7	2251.1	2268.8	2282.7	2270.6	2257.4	2263.1	2277.0	2253.0	2220.7	2219.4
37.5°	2369.3	2375.0	2397.7	2412.2	2403.4	2380.6	2390.1	2406.6	2382.5	2342.7	2334.5
40°	2498.9	2510.9	2539.3	2554.5	2539.9	2509.6	2527.3	2545.0	2523.5	2477.4	2459.0
42.5°	2644.2	2663.2	2704.3	2711.9	2684.1	2643.0	2674.0	2702.4	2687.2	2634.1	2627.2
45°	2814.3	2825.7	2876.2	2892.7	2854.1	2802.9	2841.5	2893.3	2881.9	2820.6	2807.3
47.5°	3004.6	3015.3	3067.8	3092.4	3043.8	2974.9	3044.4	3112.0	3105.1	3039.3	3033.0
50°	3229.6	3232.1	3304.8	3332.6	3284.0	3224.6	3286.5	3370.6	3342.8	3258.7	3257.4
52.5°	3476.1	3479.3	3571.0	3624.7	3597.5	3530.5	3603.8	3655.0	3584.2	3474.2	3466.0
55°	3689.8	3705.6	3830.8	3973.6	4010.9	3962.3	3984.4	3960.4	3785.9	3631.6	3607.6
57.5°	3777.0	3808.0	3998.3	4265.1	4507.8	4579.9	4409.2	4180.3	3866.2	3648.1	3624.7
60°	3564.0	3597.5	3892.7	4399.1	5018.6	5331.5	4851.7	4217.6	3683.5	3376.9	3340.2
62.5°	2854.1	2863.6	3297.9	4083.6	5316.3	6126.7	5038.2	3899.7	3151.9	2735.3	2720.7
64°	2053.8	2151.2	2611.4	3580.4	5186.1	6429.5	4930.7	3454.0	2560.2	2138.5	2070.3
65°	1536.1	1562.7	2105.0	3057.7	4956.6	6406.7	4722.1	3028.0	2120.2	1636.6	1560.8
67.5°	580.3	583.5	776.9	1524.1	3528.6	5512.3	3603.8	1647.4	893.2	646.0	622.7
70°	240.8	245.3	285.1	512.7	1516.5	3539.4	1737.8	594.2	326.8	264.9	261.1
72.5°	176.4	178.9	190.9	227.6	466.5	1453.3	571.5	252.2	191.5	171.3	169.4
75°	138.4	139.7	148.6	167.5	217.5	402.7	237.7	173.2	146.0	131.5	130.2
77.5°	105.6	108.7	115.0	127.7	146.0	190.9	157.4	129.6	112.5	100.5	98.6
80°	72.7	76.5	88.5	93.6	98.0	123.9	107.5	98.0	87.9	73.3	68.9
82.5°	44.9	47.4	59.4	63.8	61.9	69.5	68.9	70.2	62.6	45.5	42.4
85°	23.4	24.7	32.2	33.5	31.0	28.4	35.4	41.1	38.6	25.9	25.3
87.5°	5.1	5.7	7.0	6.3	7.0	7.0	8.8	13.3	13.9	8.8	8.2
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)