

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: P458716

Luminaire Tested: **GALN-SA2D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458716
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-SA2D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15199 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

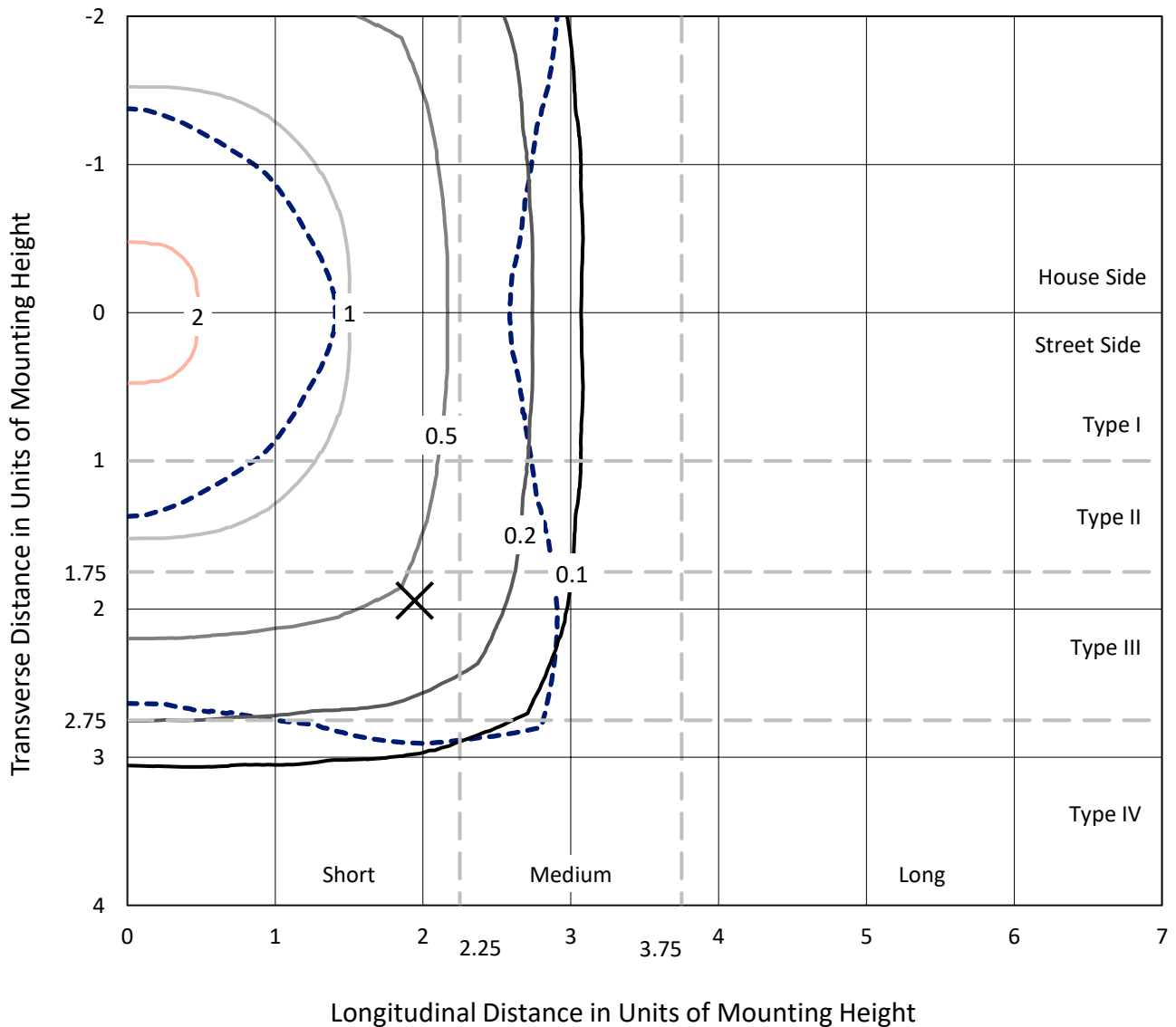
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

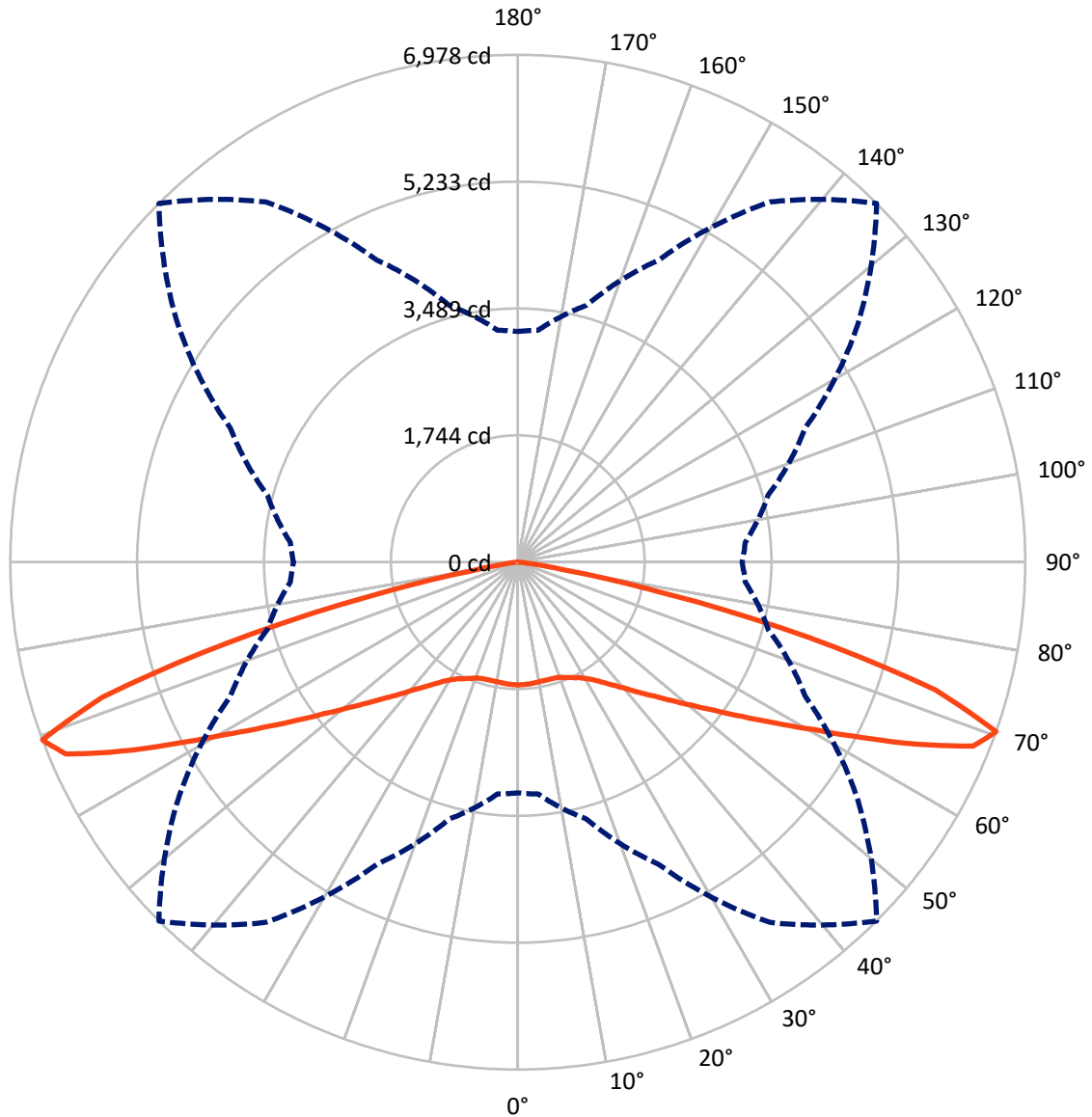
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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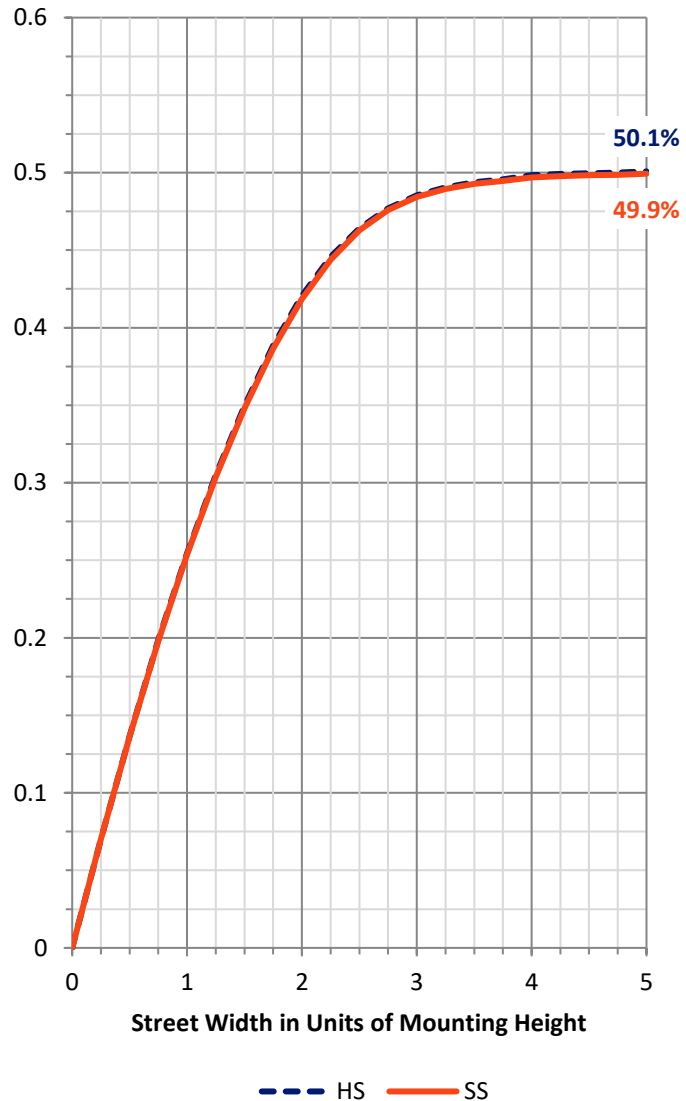
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7599.5	0.0	7599.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7599.5	0.0	7599.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15199.0	0.0	15199.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.1
10°-20°	469.7	3.1
20°-30°	803.3	5.3
30°-40°	1274.9	8.4
40°-50°	2056.8	13.5
50°-60°	3346.5	22.0
60°-70°	4851.2	31.9
70°-80°	2151.8	14.2
80°-90°	84.9	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°	15199.0	100.0
0°-180°	15199.0	100.0



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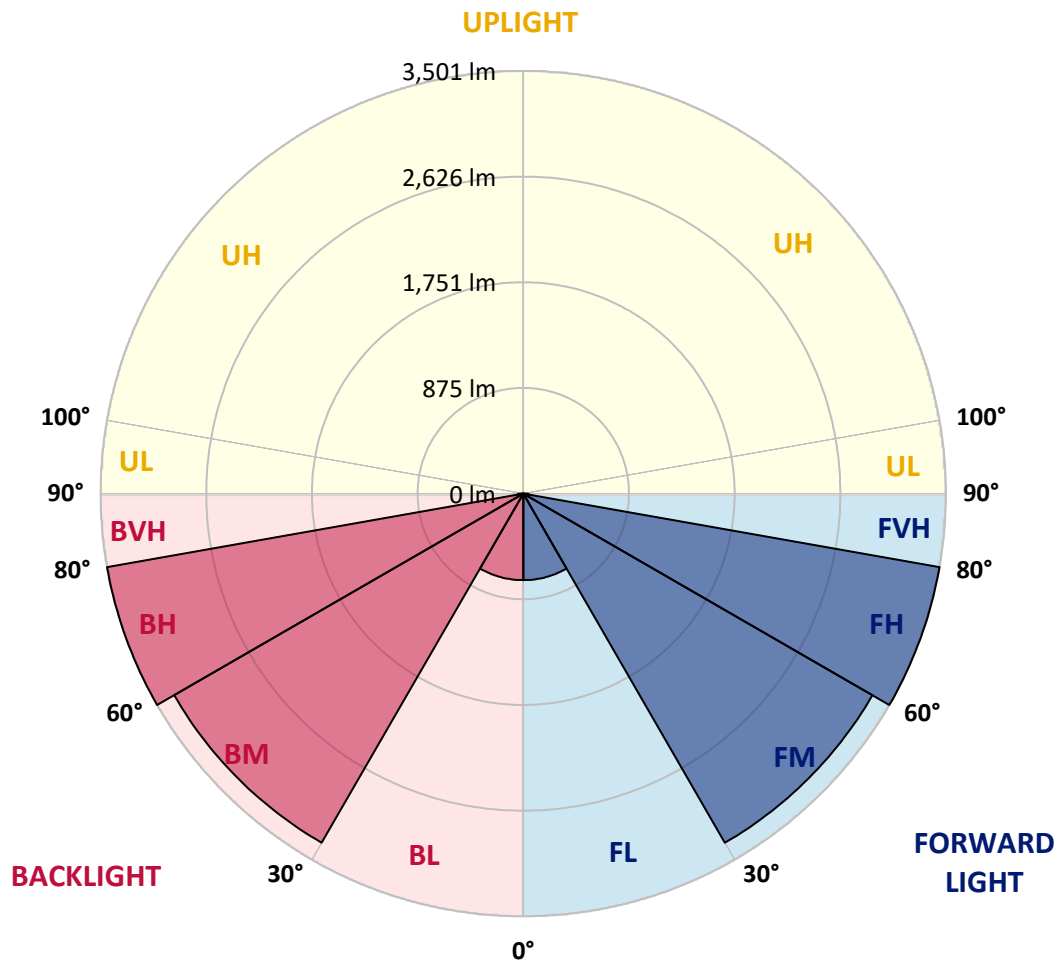
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.5	4.7			
FM (30°-60°)	3339.1	22.0			
FH (60°-80°)	3501.5	23.0			G2/5000
FVH (80°-90°)	42.4	0.3			G1/100
BL (0°-30°)	716.5	4.7	B2/1000		
BM (30°-60°)	3339.1	22.0	B3/5000		
BH (60°-80°)	3501.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	42.4	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°	1687.8	1687.8	1687.8	1687.8	1687.8	1687.8	1687.8	1687.8	1687.8	1687.8	1687.8
2.5°	1687.8	1689.4	1687.0	1685.4	1684.6	1684.6	1683.8	1684.6	1689.4	1690.2	1687.8
5°	1683.0	1684.6	1683.8	1682.2	1681.4	1681.4	1680.6	1679.8	1683.8	1685.4	1684.6
7.5°	1676.6	1677.4	1676.6	1675.8	1676.6	1675.8	1673.4	1671.8	1675.0	1675.0	1674.2
10°	1665.3	1667.0	1666.1	1667.0	1668.6	1668.6	1665.3	1662.1	1662.9	1661.3	1661.3
12.5°	1651.7	1654.1	1654.9	1658.1	1662.1	1667.0	1659.7	1652.5	1650.9	1650.1	1649.3
15°	1642.9	1645.3	1648.5	1651.7	1658.9	1669.4	1658.9	1647.7	1644.5	1641.3	1639.7
17.5°	1640.5	1643.7	1648.5	1653.3	1662.9	1673.4	1664.5	1653.3	1645.3	1640.5	1638.9
20°	1646.9	1649.3	1656.5	1665.3	1679.0	1689.4	1680.6	1668.6	1656.5	1649.3	1646.9
22.5°	1659.7	1663.7	1672.6	1688.6	1707.8	1723.0	1711.0	1691.0	1671.8	1662.1	1658.9
25°	1687.8	1691.0	1701.4	1723.0	1745.5	1759.9	1747.1	1723.8	1697.4	1684.6	1680.6
27.5°	1730.2	1735.0	1746.3	1771.9	1790.3	1798.3	1789.5	1773.5	1754.3	1740.6	1737.4
30°	1790.3	1795.9	1812.7	1840.0	1852.0	1856.8	1852.8	1842.4	1828.8	1814.3	1811.1
32.5°	1871.2	1874.4	1893.6	1919.3	1930.5	1932.1	1927.3	1922.5	1900.1	1876.0	1874.4
35°	1961.7	1967.3	1990.6	2021.0	2031.4	2032.2	2022.6	2015.4	1989.0	1969.7	1969.7
37.5°	2081.9	2084.3	2106.7	2141.2	2152.4	2149.2	2144.4	2138.0	2109.9	2085.1	2085.9
40°	2222.9	2227.7	2246.9	2287.0	2287.0	2282.9	2286.1	2281.3	2253.3	2229.3	2230.1
42.5°	2390.3	2392.7	2415.9	2458.4	2455.2	2447.2	2450.4	2444.0	2426.3	2399.1	2389.5
45°	2568.9	2578.5	2618.6	2659.4	2653.0	2627.4	2640.2	2638.6	2622.6	2581.7	2584.1
47.5°	2784.4	2800.4	2838.9	2887.7	2880.5	2840.5	2854.9	2864.5	2842.1	2797.2	2789.2
50°	3027.1	3037.5	3094.4	3140.1	3133.6	3091.2	3124.0	3125.6	3069.6	3006.3	3006.3
52.5°	3285.8	3296.3	3373.2	3444.4	3448.4	3386.8	3413.2	3411.6	3320.3	3237.0	3221.0
55°	3575.8	3580.6	3679.9	3784.9	3807.3	3747.2	3750.4	3718.4	3599.8	3502.9	3494.1
57.5°	3875.4	3893.0	4002.8	4138.9	4205.4	4168.6	4151.8	4066.0	3951.5	3840.2	3834.5
60°	4207.0	4207.8	4350.4	4511.4	4646.0	4670.8	4601.9	4487.4	4339.2	4191.8	4185.4
62.5°	4436.9	4471.4	4651.6	4924.0	5165.1	5304.4	5122.6	4882.3	4590.7	4352.8	4328.8
65°	4484.2	4507.4	4782.2	5243.6	5736.2	6036.6	5616.0	5105.0	4607.5	4290.3	4274.3
67.5°	4102.1	4126.9	4497.0	5205.1	6136.7	6752.7	5936.5	4997.6	4322.4	3929.9	3898.6
70°	3172.9	3200.9	3658.3	4581.9	6047.8	6977.8	5708.2	4359.2	3564.6	3140.9	3084.0
72.5°	1687.0	1790.3	2181.2	3144.9	4908.7	6007.8	4680.4	3180.9	2299.0	1879.2	1803.9
75°	616.0	628.8	846.7	1394.6	2855.7	4119.7	2965.4	1517.2	872.3	673.7	639.2
77.5°	254.7	253.9	278.8	421.3	1037.3	2109.9	1157.5	445.4	278.0	257.1	253.9
80°	150.6	150.6	165.8	175.4	273.2	636.8	305.2	198.7	166.6	152.2	154.6
82.5°	67.3	71.3	104.9	110.5	132.2	174.6	147.4	126.6	108.9	75.3	68.1
85°	36.8	32.0	55.3	57.7	63.3	64.9	69.7	68.9	63.3	36.8	37.6
87.5°	7.2	8.8	16.0	12.0	13.6	12.0	16.0	22.4	23.2	12.8	10.4
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)