

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: P647860

Luminaire Tested: **GALN-SA4A-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647860
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-SA4A-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14856.7 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

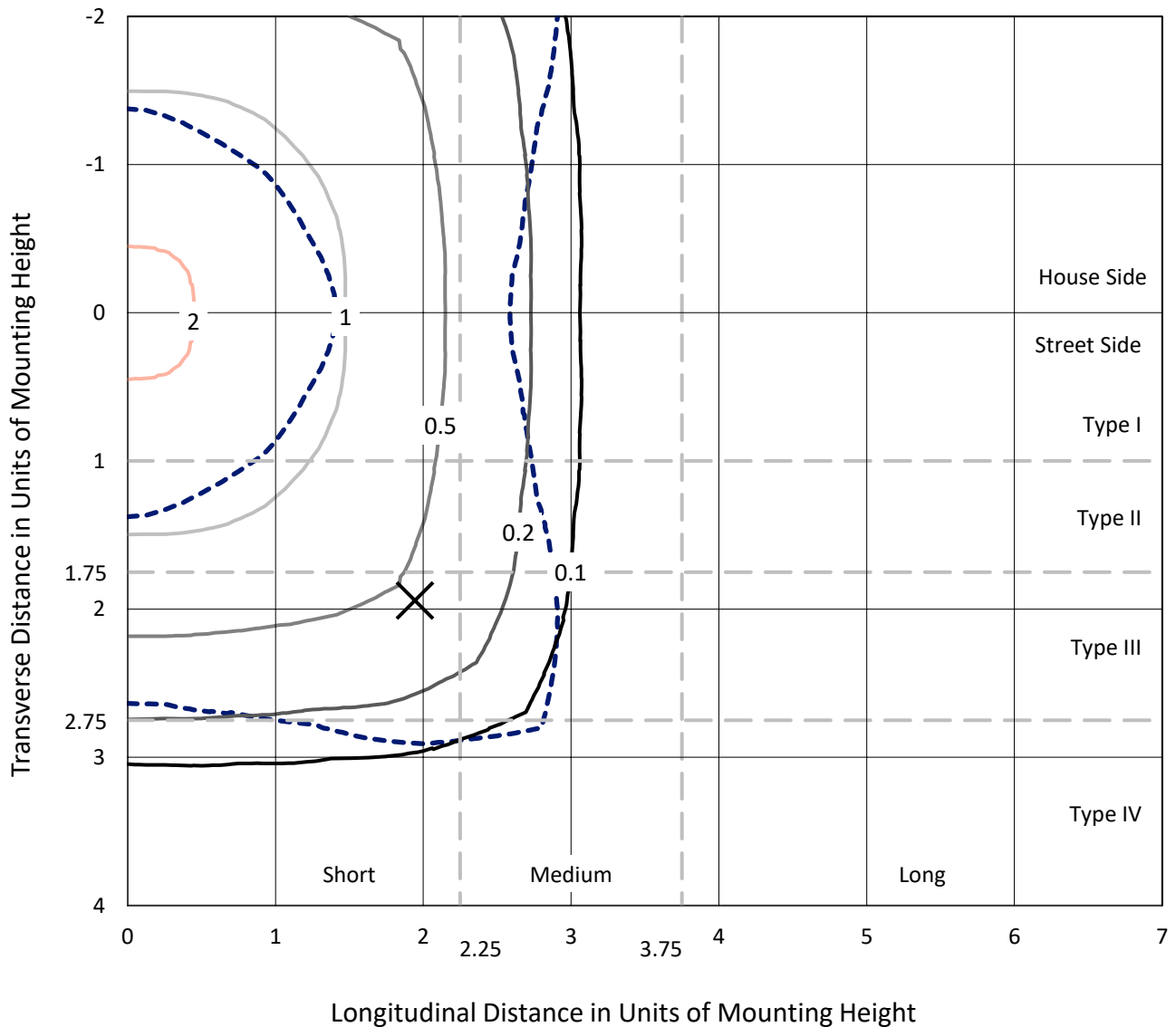
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

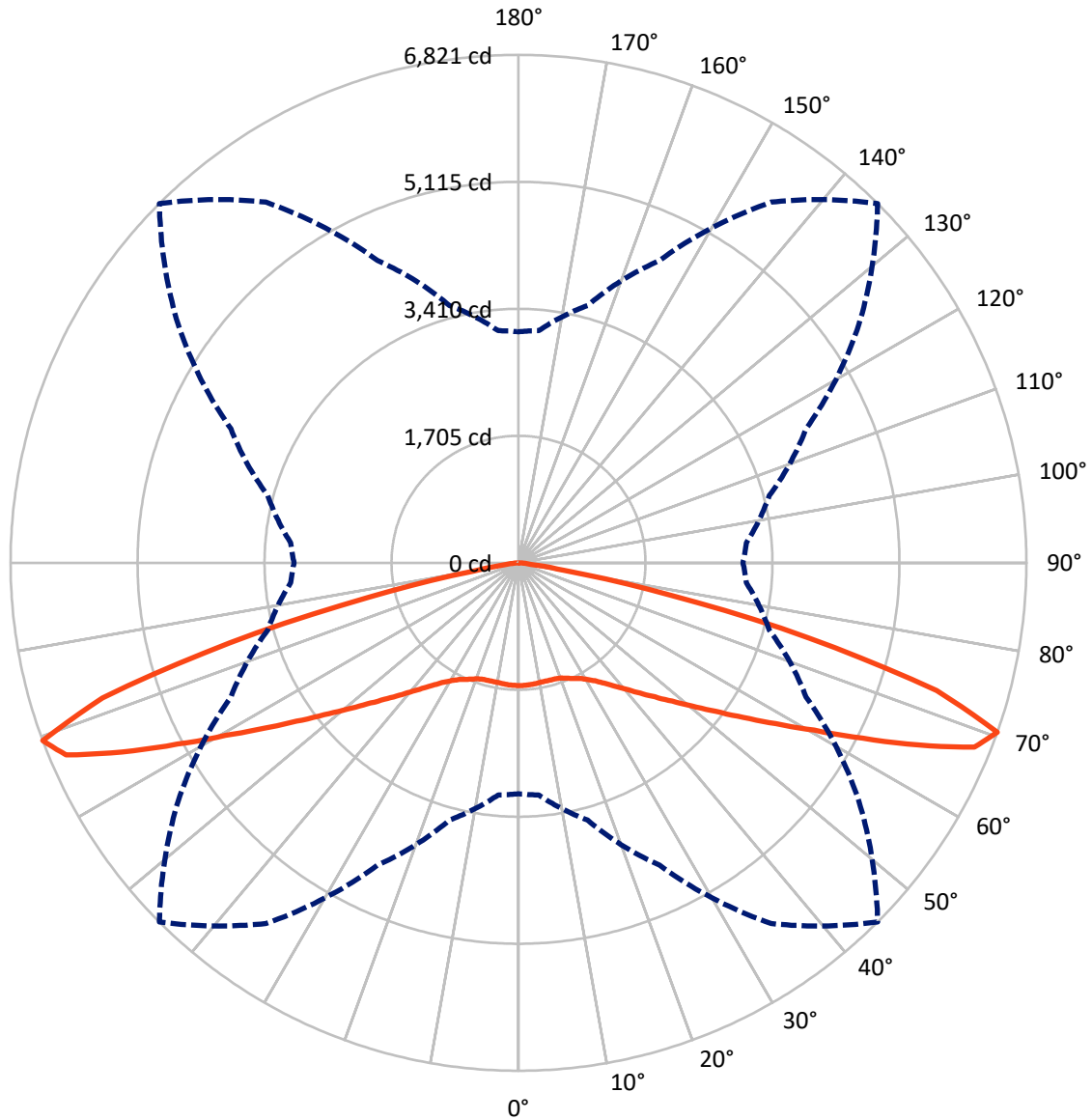
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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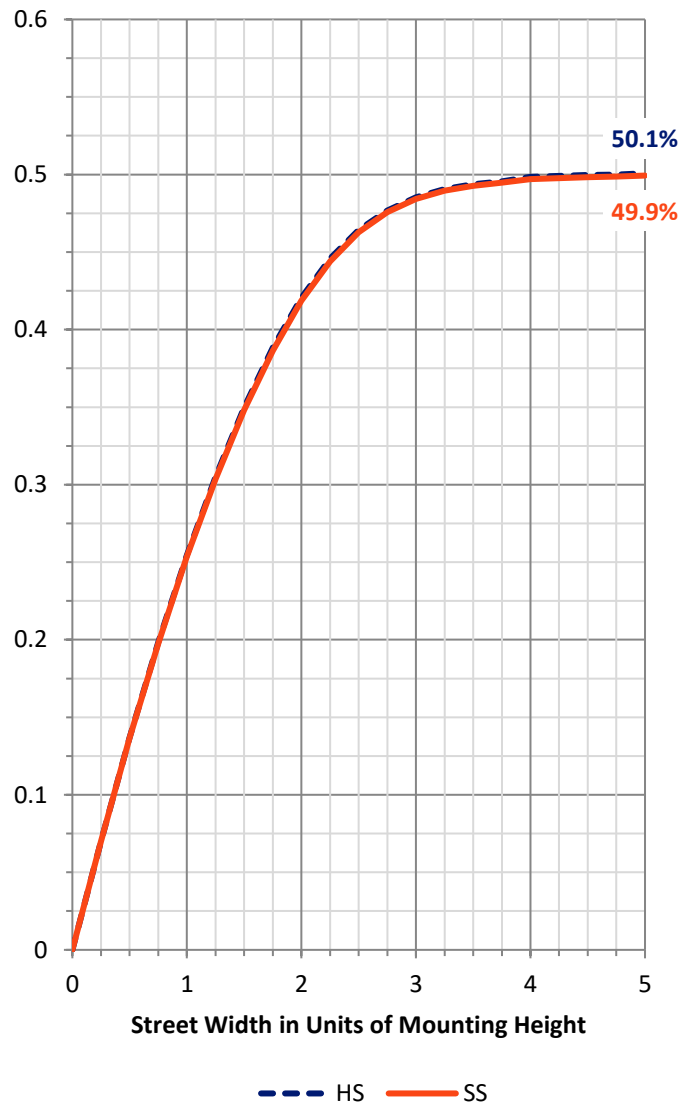
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7428.3	0.0	7428.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7428.3	0.0	7428.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14856.7	0.0	14856.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	1.1
10°-20°	459.1	3.1
20°-30°	785.2	5.3
30°-40°	1246.2	8.4
40°-50°	2010.5	13.5
50°-60°	3271.1	22.0
60°-70°	4741.9	31.9
70°-80°	2103.3	14.2
80°-90°	83.0	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°	14856.7	100.0
0°-180°	14856.7	100.0

Coefficient of Utilization

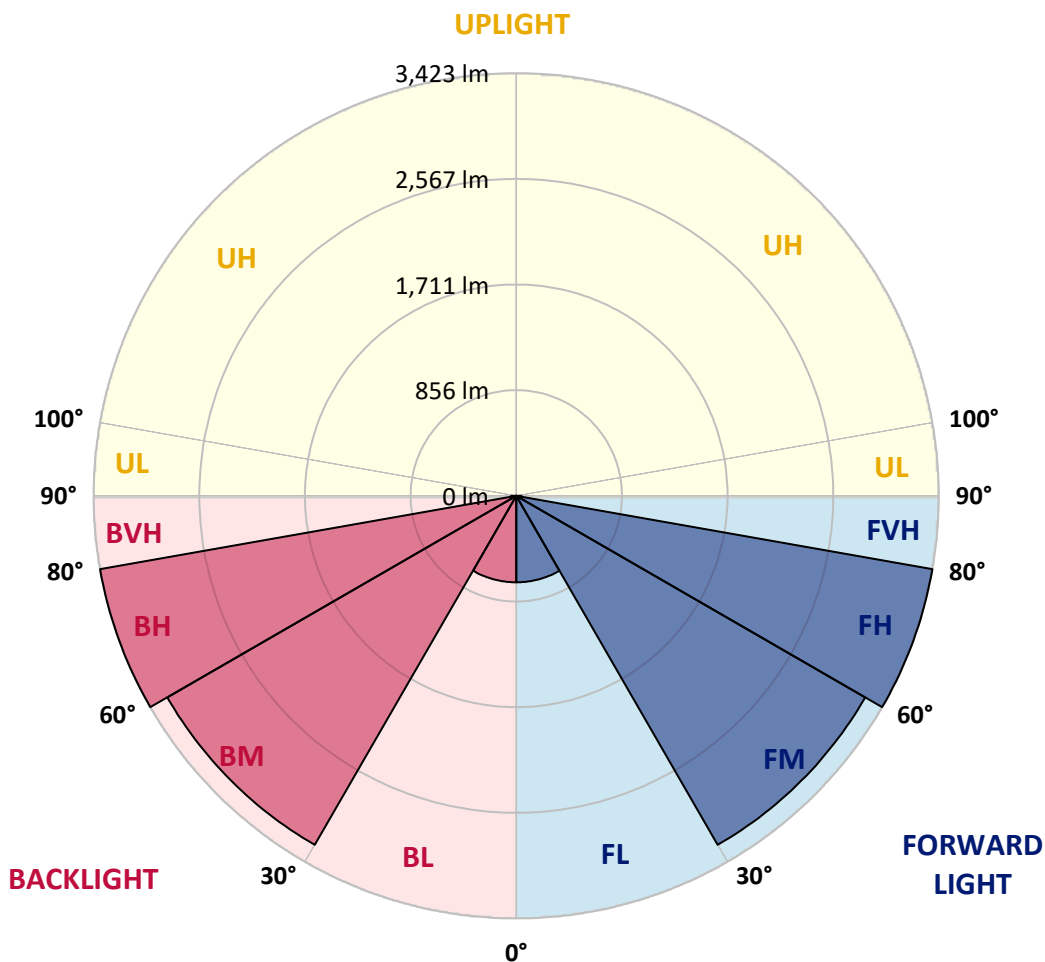


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.3	4.7			
FM (30°-60°)	3263.9	22.0			
FH (60°-80°)	3422.6	23.0			G2/5000
FVH (80°-90°)	41.5	0.3			G1/100
BL (0°-30°)	700.3	4.7	B2/1000		
BM (30°-60°)	3263.9	22.0	B3/5000		
BH (60°-80°)	3422.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	41.5	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°	1649.8	1649.8	1649.8	1649.8	1649.8	1649.8	1649.8	1649.8	1649.8	1649.8	1649.8
2.5°	1649.8	1651.3	1649.0	1647.4	1646.6	1646.6	1645.9	1646.6	1651.3	1652.1	1649.8
5°	1645.1	1646.6	1645.9	1644.3	1643.5	1643.5	1642.7	1642.0	1645.9	1647.4	1646.6
7.5°	1638.8	1639.6	1638.8	1638.0	1638.8	1638.0	1635.7	1634.1	1637.3	1637.3	1636.5
10°	1627.9	1629.4	1628.6	1629.4	1631.0	1631.0	1627.9	1624.7	1625.5	1623.9	1623.9
12.5°	1614.5	1616.9	1617.7	1620.8	1624.7	1629.4	1622.4	1615.3	1613.8	1613.0	1612.2
15°	1605.9	1608.3	1611.4	1614.5	1621.6	1631.8	1621.6	1610.6	1607.5	1604.4	1602.8
17.5°	1603.6	1606.7	1611.4	1616.1	1625.5	1635.7	1627.1	1616.1	1608.3	1603.6	1602.0
20°	1609.8	1612.2	1619.2	1627.9	1641.2	1651.3	1642.7	1631.0	1619.2	1612.2	1609.8
22.5°	1622.4	1626.3	1634.9	1650.6	1669.4	1684.2	1672.5	1652.9	1634.1	1624.7	1621.6
25°	1649.8	1652.9	1663.1	1684.2	1706.2	1720.3	1707.7	1685.0	1659.2	1646.6	1642.7
27.5°	1691.3	1696.0	1706.9	1732.0	1750.0	1757.8	1749.2	1733.6	1714.8	1701.5	1698.3
30°	1750.0	1755.5	1771.9	1798.6	1810.3	1815.0	1811.1	1800.9	1787.6	1773.5	1770.4
32.5°	1829.1	1832.2	1851.0	1876.1	1887.0	1888.6	1883.9	1879.2	1857.3	1833.8	1832.2
35°	1917.6	1923.0	1945.8	1975.5	1985.7	1986.5	1977.1	1970.0	1944.2	1925.4	1925.4
37.5°	2035.0	2037.4	2059.3	2093.0	2103.9	2100.8	2096.1	2089.8	2062.4	2038.1	2038.9
40°	2172.8	2177.5	2196.3	2235.5	2235.5	2231.6	2234.7	2230.0	2202.6	2179.1	2179.9
42.5°	2336.5	2338.8	2361.5	2403.0	2399.9	2392.1	2395.2	2388.9	2371.7	2345.1	2335.7
45°	2511.1	2520.5	2559.6	2599.6	2593.3	2568.2	2580.8	2579.2	2563.5	2523.6	2526.0
47.5°	2721.7	2737.4	2775.0	2822.7	2815.7	2776.5	2790.6	2800.0	2778.1	2734.2	2726.4
50°	2959.0	2969.1	3024.7	3069.4	3063.1	3021.6	3053.7	3055.3	3000.5	2938.6	2938.6
52.5°	3211.8	3222.0	3297.1	3366.8	3370.7	3310.4	3336.3	3334.7	3245.5	3164.0	3148.4
55°	3495.2	3499.9	3597.0	3699.6	3721.5	3662.8	3665.9	3634.6	3518.7	3424.0	3415.4
57.5°	3788.1	3805.3	3912.6	4045.7	4110.7	4074.7	4058.2	3974.4	3862.5	3753.6	3748.1
60°	4112.2	4113.0	4252.4	4409.8	4541.3	4565.6	4498.3	4386.3	4241.4	4097.4	4091.1
62.5°	4337.0	4370.6	4546.8	4813.0	5048.7	5184.9	5007.2	4772.3	4487.3	4254.7	4231.3
65°	4383.2	4405.9	4674.4	5125.4	5607.0	5900.6	5489.5	4990.0	4503.7	4193.7	4178.0
67.5°	4009.7	4033.9	4395.7	5087.9	5998.5	6600.6	5802.7	4885.1	4225.0	3841.3	3810.8
70°	3101.4	3128.8	3575.9	4478.7	5911.6	6820.6	5579.6	4261.0	3484.3	3070.1	3014.6
72.5°	1649.0	1750.0	2132.1	3074.1	4798.1	5872.4	4575.0	3109.2	2247.2	1836.9	1763.3
75°	602.1	614.7	827.6	1363.2	2791.4	4026.9	2898.7	1483.0	852.7	658.5	624.8
77.5°	249.0	248.2	272.5	411.9	1014.0	2062.4	1131.4	435.3	271.7	251.3	248.2
80°	147.2	147.2	162.1	171.5	267.0	622.5	298.3	194.2	162.9	148.8	151.1
82.5°	65.8	69.7	102.6	108.1	129.2	170.7	144.1	123.7	106.5	73.6	66.6
85°	36.0	31.3	54.0	56.4	61.9	63.4	68.1	67.3	61.9	36.0	36.8
87.5°	7.0	8.6	15.7	11.7	13.3	11.7	15.7	21.9	22.7	12.5	10.2
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)