

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: P652260

Luminaire Tested: **GALN-SA3B-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652260
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-SA3B-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14983.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

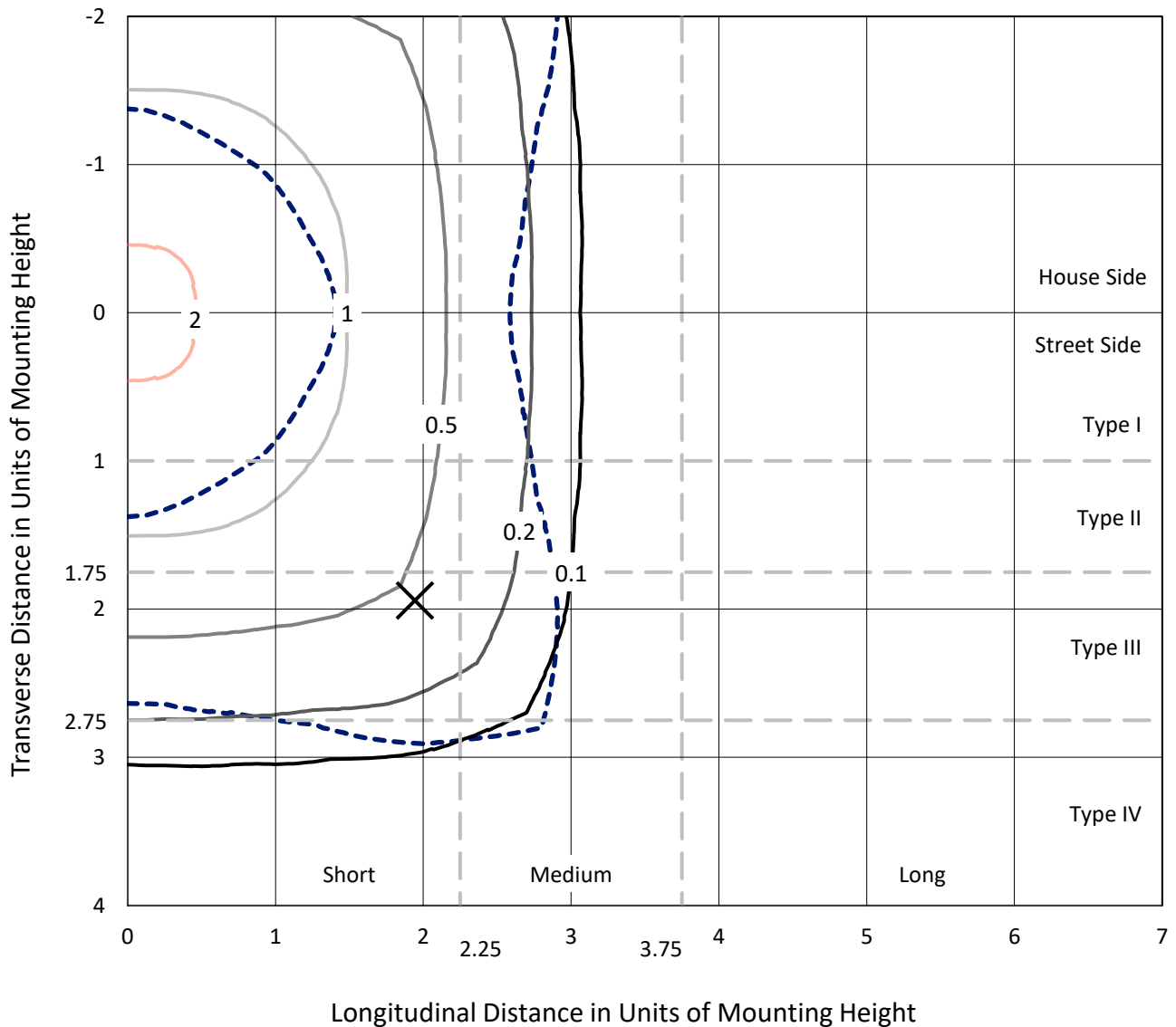
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

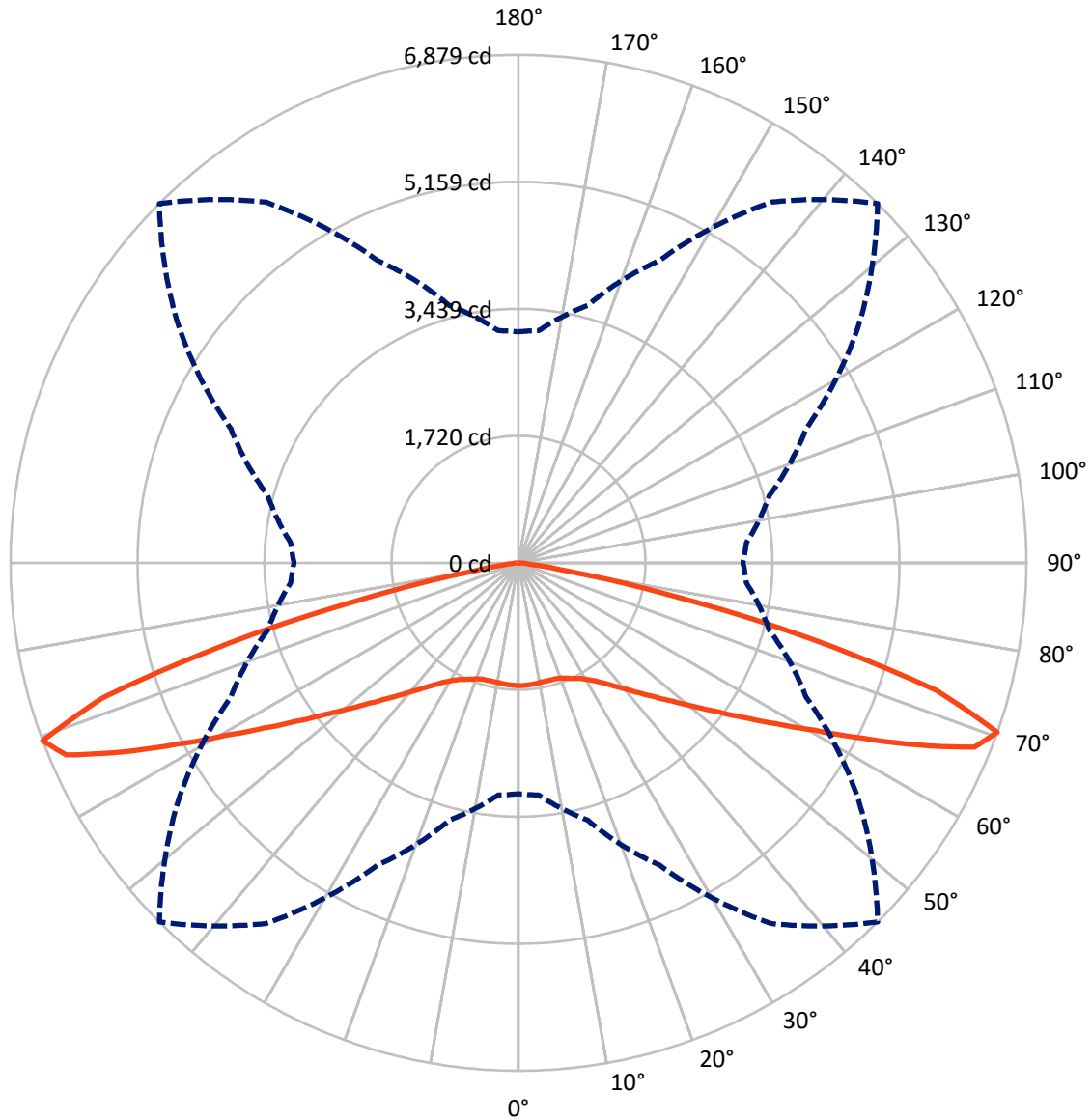
× Max cd
 - - - 1/2 Max cd



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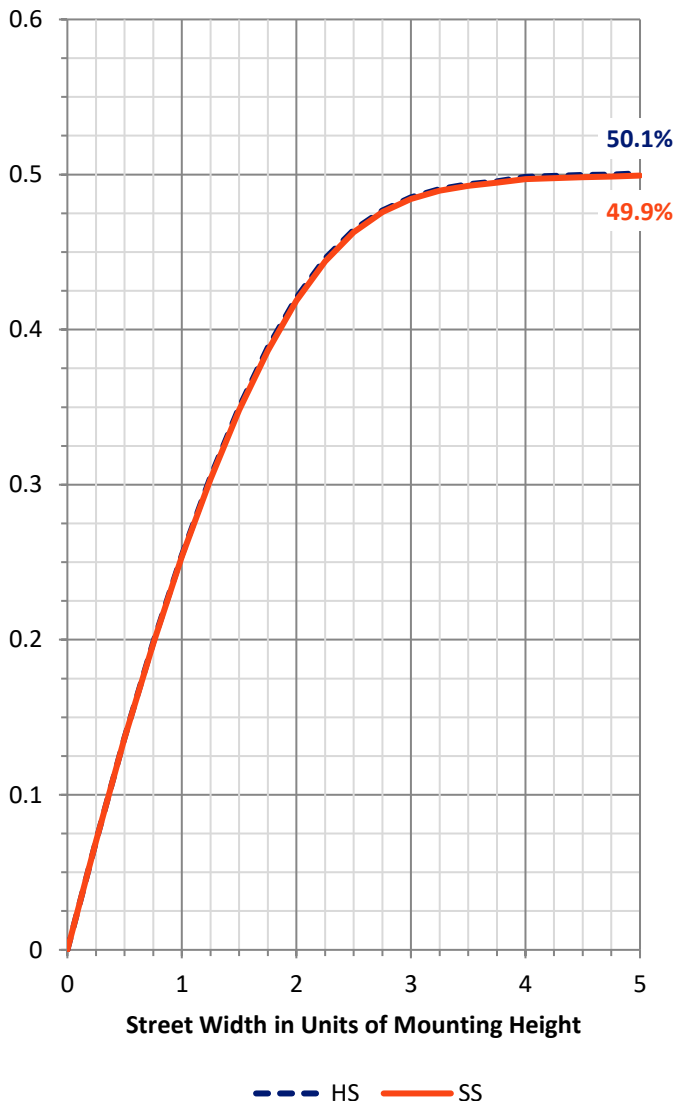
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7491.6	0.0	7491.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7491.6	0.0	7491.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14983.3	0.0	14983.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.1
10°-20°	463.0	3.1
20°-30°	791.8	5.3
30°-40°	1256.8	8.4
40°-50°	2027.6	13.5
50°-60°	3299.0	22.0
60°-70°	4782.3	31.9
70°-80°	2121.3	14.2
80°-90°	83.7	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°	14983.3	100.0
0°-180°	14983.3	100.0

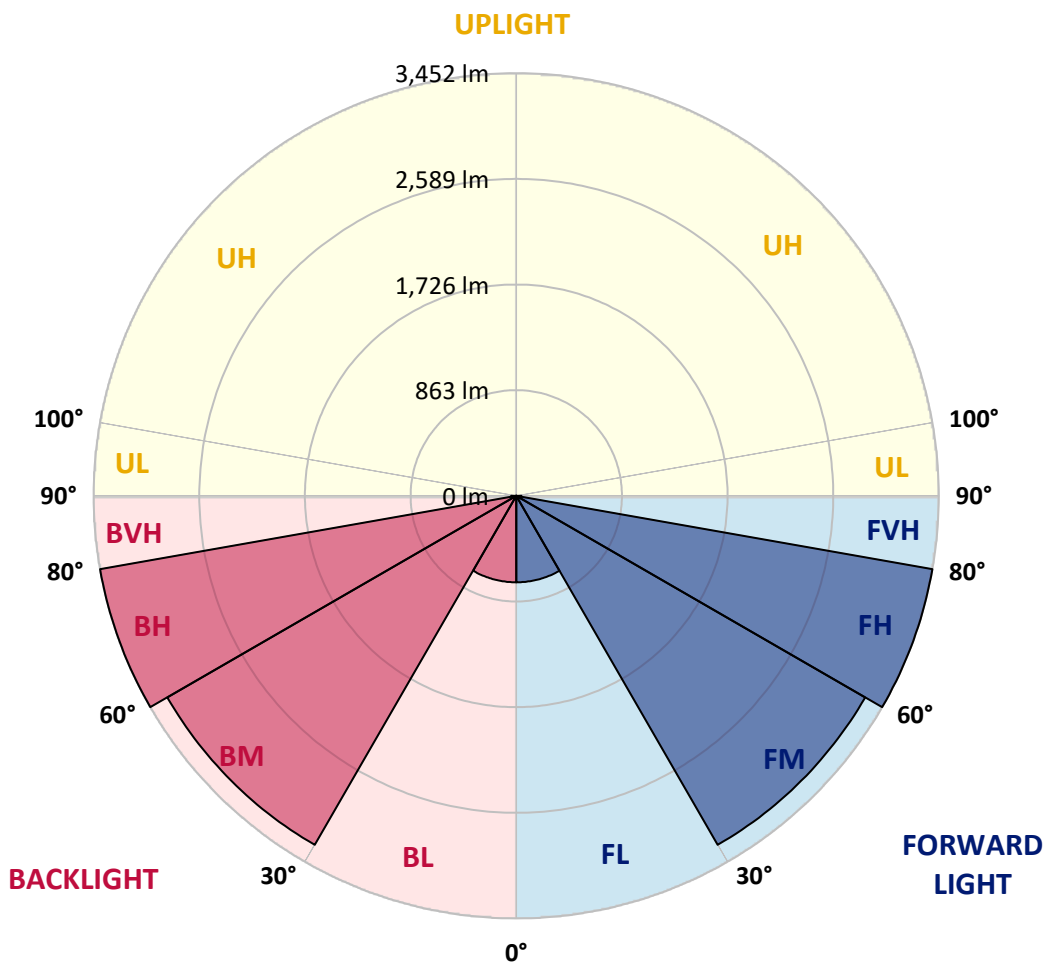


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.3	4.7			
FM (30°-60°)	3291.7	22.0			
FH (60°-80°)	3451.8	23.0			G2/5000
FVH (80°-90°)	41.8	0.3			G1/100
BL (0°-30°)	706.3	4.7	B2/1000		
BM (30°-60°)	3291.7	22.0	B3/5000		
BH (60°-80°)	3451.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	41.8	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°	1663.8	1663.8	1663.8	1663.8	1663.8	1663.8	1663.8	1663.8	1663.8	1663.8	1663.8
2.5°	1663.8	1665.4	1663.0	1661.5	1660.6	1660.6	1659.9	1660.6	1665.4	1666.2	1663.8
5°	1659.0	1660.6	1659.9	1658.3	1657.5	1657.5	1656.7	1655.9	1659.9	1661.5	1660.6
7.5°	1652.7	1653.6	1652.7	1652.0	1652.7	1652.0	1649.6	1648.0	1651.2	1651.2	1650.4
10°	1641.7	1643.3	1642.5	1643.3	1644.8	1644.8	1641.7	1638.5	1639.4	1637.8	1637.8
12.5°	1628.3	1630.6	1631.5	1634.6	1638.5	1643.3	1636.2	1629.1	1627.5	1626.7	1625.9
15°	1619.6	1622.0	1625.1	1628.3	1635.4	1645.7	1635.4	1624.3	1621.2	1618.0	1616.4
17.5°	1617.2	1620.4	1625.1	1629.9	1639.4	1649.6	1641.0	1629.9	1622.0	1617.2	1615.6
20°	1623.6	1625.9	1633.1	1641.7	1655.2	1665.4	1656.7	1644.8	1633.1	1625.9	1623.6
22.5°	1636.2	1640.1	1648.8	1664.6	1683.6	1698.6	1686.7	1666.9	1648.0	1638.5	1635.4
25°	1663.8	1666.9	1677.2	1698.6	1720.7	1734.9	1722.3	1699.3	1673.3	1660.6	1656.7
27.5°	1705.6	1710.4	1721.4	1746.8	1764.9	1772.8	1764.1	1748.4	1729.3	1716.0	1712.8
30°	1764.9	1770.4	1787.0	1813.9	1825.7	1830.4	1826.5	1816.2	1802.8	1788.6	1785.4
32.5°	1844.6	1847.8	1866.8	1892.0	1903.1	1904.7	1899.9	1895.2	1873.1	1849.4	1847.8
35°	1933.9	1939.4	1962.3	1992.3	2002.6	2003.3	1993.9	1986.8	1960.7	1941.8	1941.8
37.5°	2052.3	2054.7	2076.8	2110.7	2121.8	2118.6	2113.9	2107.6	2080.0	2055.5	2056.2
40°	2191.3	2196.0	2215.0	2254.5	2254.5	2250.5	2253.7	2249.0	2221.3	2197.6	2198.5
42.5°	2356.3	2358.8	2381.6	2423.5	2420.3	2412.4	2415.6	2409.3	2391.9	2365.1	2355.6
45°	2532.4	2541.9	2581.4	2621.6	2615.3	2590.1	2602.7	2601.1	2585.3	2545.1	2547.5
47.5°	2744.9	2760.7	2798.6	2846.7	2839.6	2800.1	2814.3	2823.8	2801.7	2757.5	2749.6
50°	2984.1	2994.4	3050.5	3095.5	3089.2	3047.3	3079.7	3081.3	3026.0	2963.6	2963.6
52.5°	3239.2	3249.5	3325.2	3395.5	3399.5	3338.7	3364.8	3363.2	3273.2	3191.0	3175.2
55°	3525.1	3529.8	3627.7	3731.2	3753.3	3694.0	3697.2	3665.6	3548.8	3453.2	3444.5
57.5°	3820.4	3837.7	3946.0	4080.2	4145.7	4109.4	4092.8	4008.3	3895.4	3785.7	3780.1
60°	4147.3	4148.1	4288.7	4447.4	4580.1	4604.6	4536.6	4423.7	4277.6	4132.3	4126.0
62.5°	4374.0	4407.9	4585.6	4854.1	5091.8	5229.2	5049.9	4813.0	4525.6	4291.0	4267.3
65°	4420.5	4443.4	4714.3	5169.1	5654.8	5950.9	5536.3	5032.5	4542.2	4229.5	4213.7
67.5°	4043.9	4068.3	4433.2	5131.2	6049.6	6656.9	5852.2	4926.7	4261.0	3874.1	3843.3
70°	3127.8	3155.5	3606.4	4516.8	5961.9	6878.8	5627.1	4297.3	3514.0	3096.3	3040.2
72.5°	1663.0	1764.9	2150.3	3100.2	4839.0	5922.5	4614.0	3135.8	2266.3	1852.6	1778.3
75°	607.3	619.9	834.7	1374.8	2815.2	4061.3	2923.3	1495.6	859.9	664.1	630.2
77.5°	251.1	250.3	274.8	415.4	1022.6	2080.0	1141.1	439.1	274.0	253.5	250.3
80°	148.4	148.4	163.5	172.9	269.3	627.8	300.8	195.9	164.2	150.0	152.4
82.5°	66.4	70.3	103.4	109.0	130.3	172.2	145.3	124.8	107.4	74.3	67.1
85°	36.3	31.6	54.5	56.9	62.4	64.0	68.7	68.0	62.4	36.3	37.1
87.5°	7.1	8.7	15.8	11.9	13.5	11.9	15.8	22.1	22.9	12.6	10.3
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)