

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: P947056

Luminaire Tested: **GALN-SB2C-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16594 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

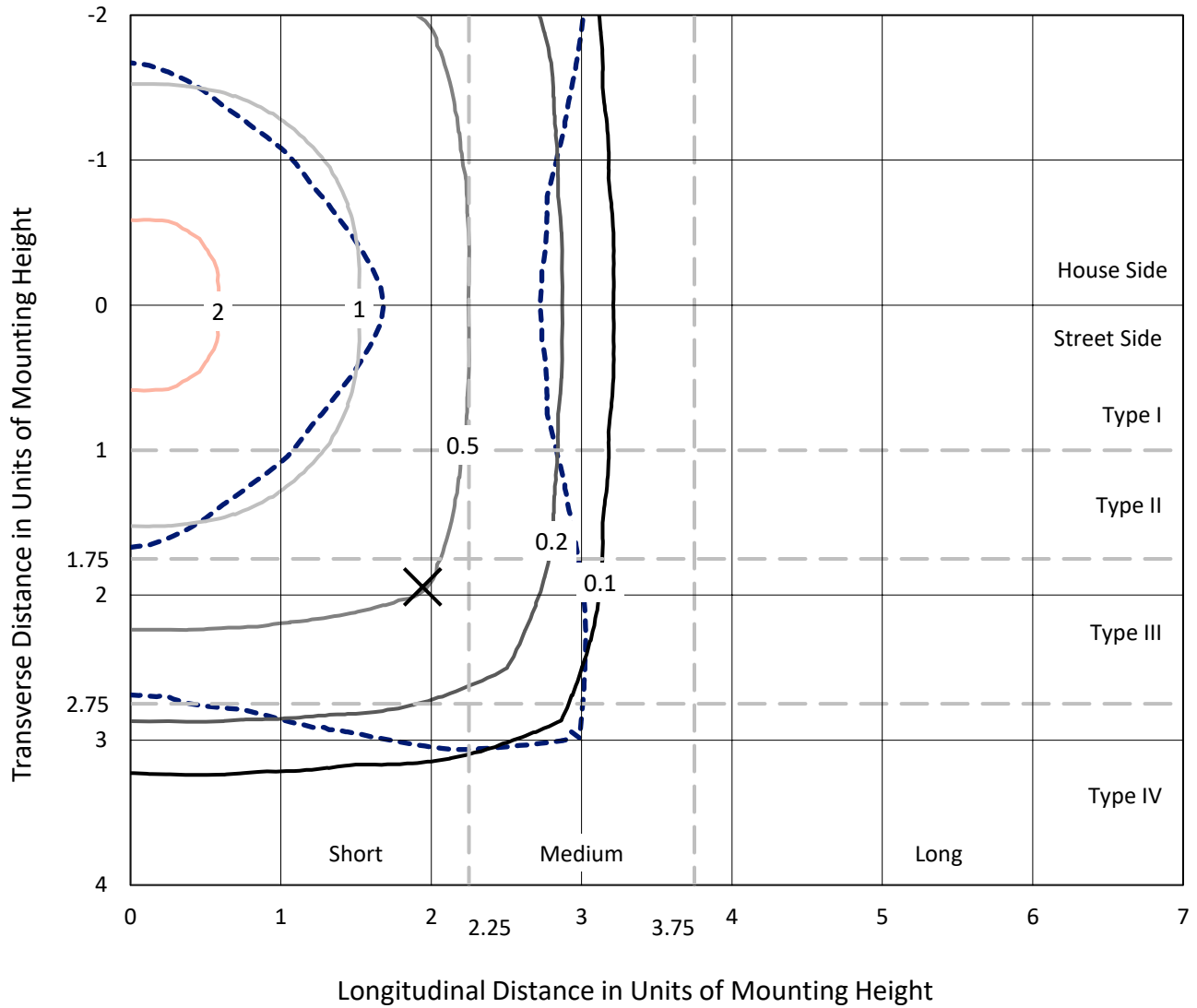
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

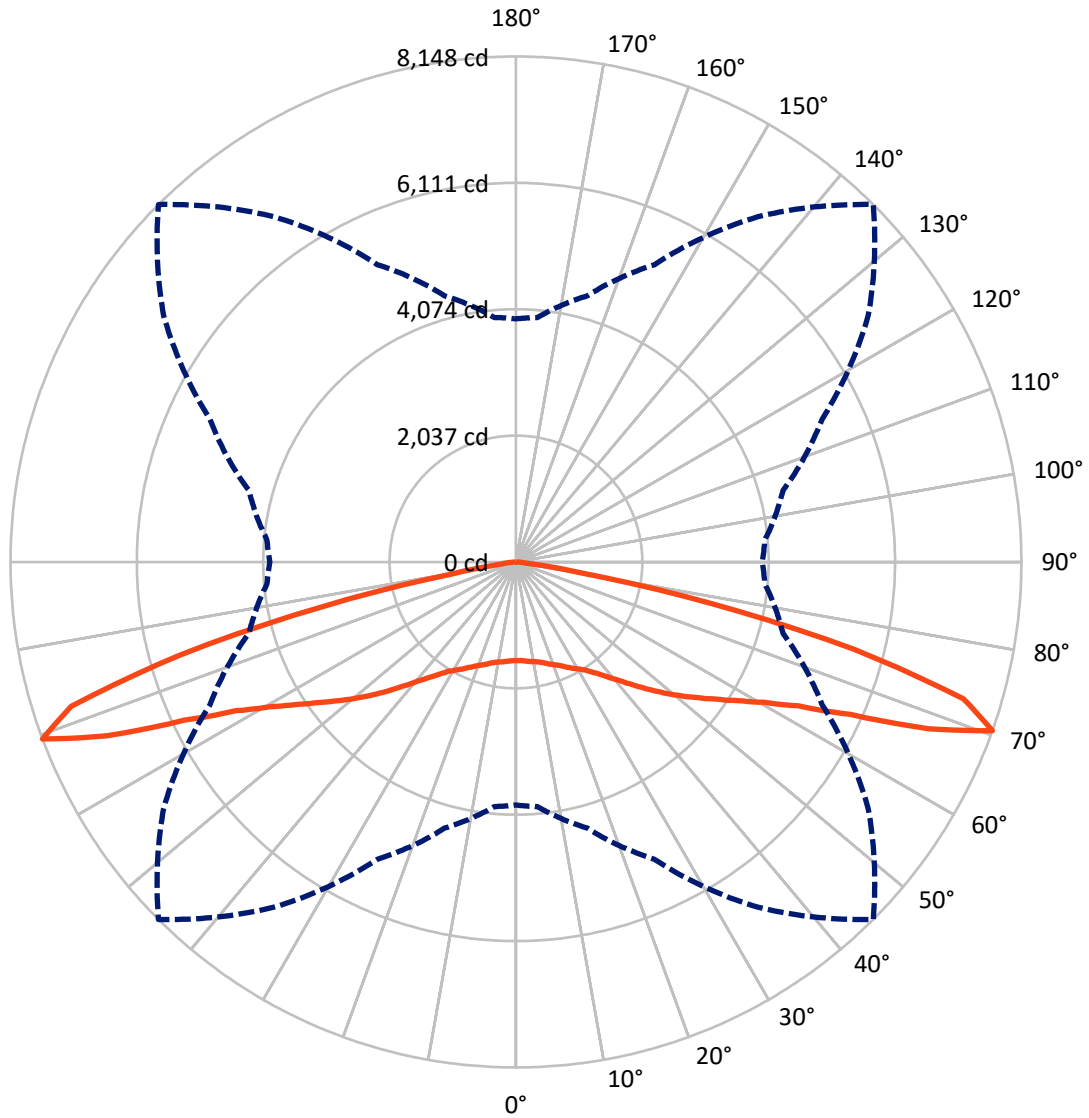
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	8297.0	0.0	8297.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8297.0	0.0	8297.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16594.0	0.0	16594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	0.9
10°-20°	478.9	2.9
20°-30°	855.8	5.2
30°-40°	1387.2	8.4
40°-50°	2259.5	13.6
50°-60°	3445.0	20.8
60°-70°	5125.0	30.9
70°-80°	2793.3	16.8
80°-90°	95.1	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°	16594.0	100.0
0°-180°	16594.0	100.0



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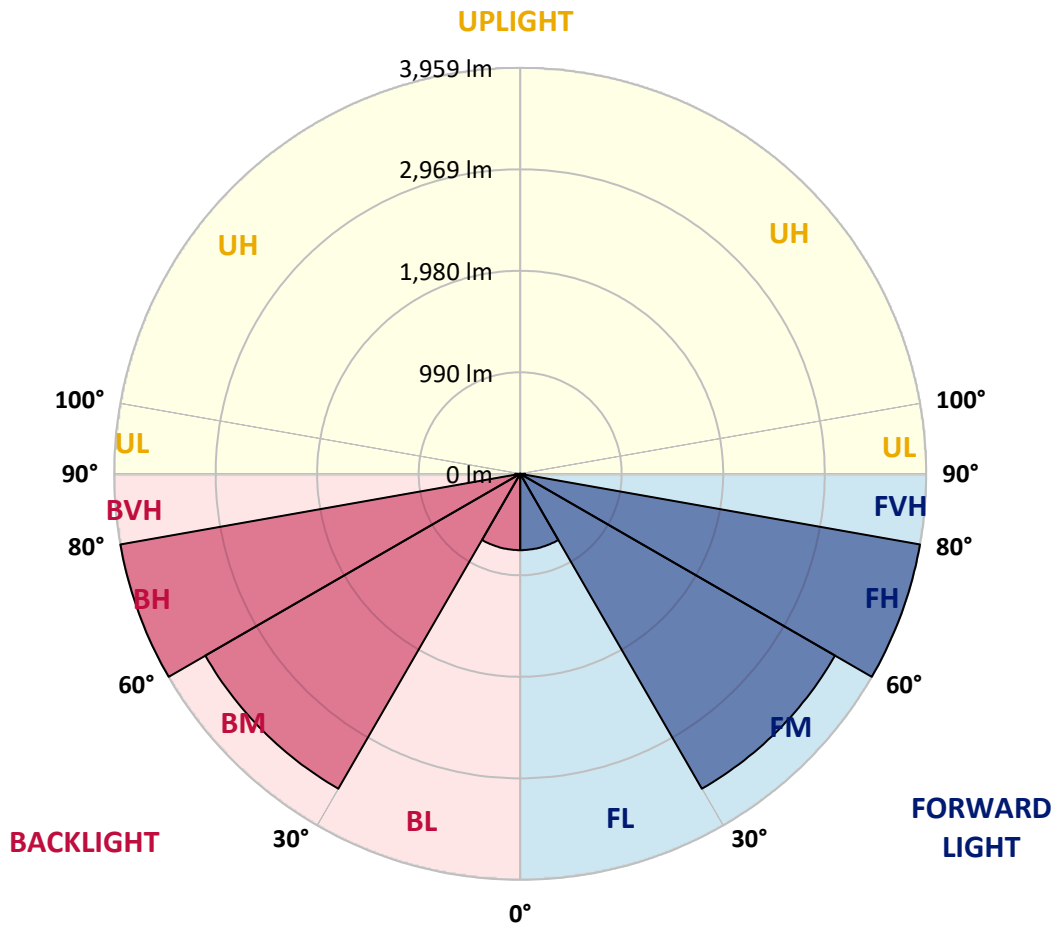
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.5	4.5			
FM (30°-60°)	3545.8	21.4			
FH (60°-80°)	3959.1	23.9			G2/5000
FVH (80°-90°)	47.6	0.3			G1/100
BL (0°-30°)	744.5	4.5	B2/1000		
BM (30°-60°)	3545.8	21.4	B3/5000		
BH (60°-80°)	3959.1	23.9	B4/5000		G2/5000
BVH (80°-90°)	47.6	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°
0°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5
2.5°	1597.0	1598.7	1595.4	1593.7	1592.0	1589.5	1590.4	1594.5	1597.9	1597.0
5°	1610.4	1612.0	1609.5	1608.7	1605.4	1604.5	1604.5	1608.7	1611.2	1609.5
7.5°	1625.4	1627.9	1623.7	1622.9	1621.2	1619.5	1618.7	1622.9	1625.4	1625.4
10°	1639.5	1642.0	1638.7	1636.2	1634.5	1634.5	1632.9	1636.2	1640.4	1639.5
12.5°	1654.5	1656.2	1652.8	1651.2	1651.2	1653.7	1651.2	1652.8	1656.2	1654.5
15°	1672.8	1673.7	1672.8	1675.3	1679.5	1687.8	1680.3	1678.7	1680.3	1676.2
17.5°	1697.8	1699.5	1702.8	1708.7	1714.5	1729.5	1716.2	1712.0	1712.0	1703.7
20°	1728.7	1731.2	1736.2	1746.2	1753.7	1767.8	1754.5	1748.7	1746.2	1735.3
22.5°	1761.1	1765.3	1772.8	1786.1	1799.5	1812.8	1799.5	1789.5	1782.0	1767.8
25°	1798.6	1803.6	1815.3	1837.0	1855.3	1874.4	1858.6	1838.6	1823.6	1803.6
27.5°	1852.0	1857.8	1872.0	1898.6	1921.9	1938.6	1923.6	1897.8	1876.9	1852.8
30°	1926.9	1932.8	1949.4	1977.8	1993.6	2004.4	1994.4	1974.4	1949.4	1921.9
32.5°	2023.6	2031.1	2049.4	2076.1	2079.4	2081.1	2077.7	2067.7	2049.4	2016.1
35°	2146.0	2154.4	2175.2	2196.9	2193.5	2196.9	2191.9	2188.5	2175.2	2136.9
37.5°	2296.0	2306.0	2327.7	2344.3	2336.0	2331.8	2332.6	2333.5	2326.0	2283.5
40°	2470.1	2483.4	2499.3	2516.8	2502.6	2490.1	2498.4	2505.1	2498.4	2455.1
42.5°	2649.2	2668.4	2685.0	2710.0	2698.4	2682.5	2694.2	2701.7	2687.5	2640.9
45°	2848.3	2866.7	2888.3	2925.8	2917.5	2900.8	2917.5	2919.1	2895.0	2840.0
47.5°	3054.1	3073.3	3105.8	3155.7	3152.4	3134.1	3155.7	3144.1	3113.3	3047.4
50°	3249.0	3275.7	3325.7	3395.7	3402.3	3379.8	3409.0	3386.5	3334.9	3252.4
52.5°	3432.3	3460.7	3539.8	3634.8	3658.9	3629.8	3668.9	3629.8	3552.3	3446.5
55°	3624.8	3656.4	3750.6	3874.7	3923.0	3901.4	3938.0	3878.9	3768.9	3640.6
57.5°	3851.4	3870.5	3983.0	4130.5	4212.1	4217.1	4233.8	4133.8	4000.5	3854.7
60°	4097.1	4123.8	4246.3	4422.9	4552.0	4593.7	4576.2	4427.9	4272.9	4105.5
62.5°	4412.0	4441.2	4587.8	4799.4	5003.5	5106.8	5038.5	4823.6	4632.0	4431.2
65°	4672.8	4705.3	4970.2	5347.6	5719.2	5926.6	5755.0	5359.3	5014.4	4731.1
67.5°	4483.7	4523.7	4939.4	5632.5	6556.4	7175.4	6588.1	5717.5	5041.9	4657.8
70°	3918.8	3956.3	4441.2	5288.4	6792.2	8148.4	6933.8	5444.2	4457.0	4027.2
72.5°	2601.7	2722.5	3213.2	4229.6	6064.9	7540.3	6124.9	4143.8	2980.8	2595.9
75°	863.1	959.7	1294.6	2192.7	4062.1	5639.2	3867.2	1940.3	1025.5	738.1
77.5°	217.4	250.8	345.7	627.3	1620.4	3210.7	1458.7	512.3	279.1	194.9
80°	105.8	116.6	166.6	209.1	405.7	1020.5	380.7	196.6	131.6	101.6
82.5°	58.3	59.1	94.1	118.3	150.8	264.1	156.6	115.0	75.8	61.6
85°	35.8	35.0	50.0	63.3	63.3	94.1	75.0	63.3	43.3	38.3
87.5°	14.2	14.2	18.3	20.0	17.5	24.2	19.2	20.8	16.7	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1589.5
1597.9
1610.4
1625.4
1639.5
1653.7
1676.2
1703.7
1735.3
1767.0
1802.8
1852.0
1921.9
2016.9
2136.9
2283.5
2455.1
2644.2
2845.8
3043.3
3250.7
3436.5
3623.1
3834.7
4078.8
4396.2
4684.5
4600.3
3969.7
2511.8
698.1
174.1
93.3
61.6
40.0
16.7
0.0

OF REPORT)