

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: P940830

Luminaire Tested: **GALN-SB4A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16340 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

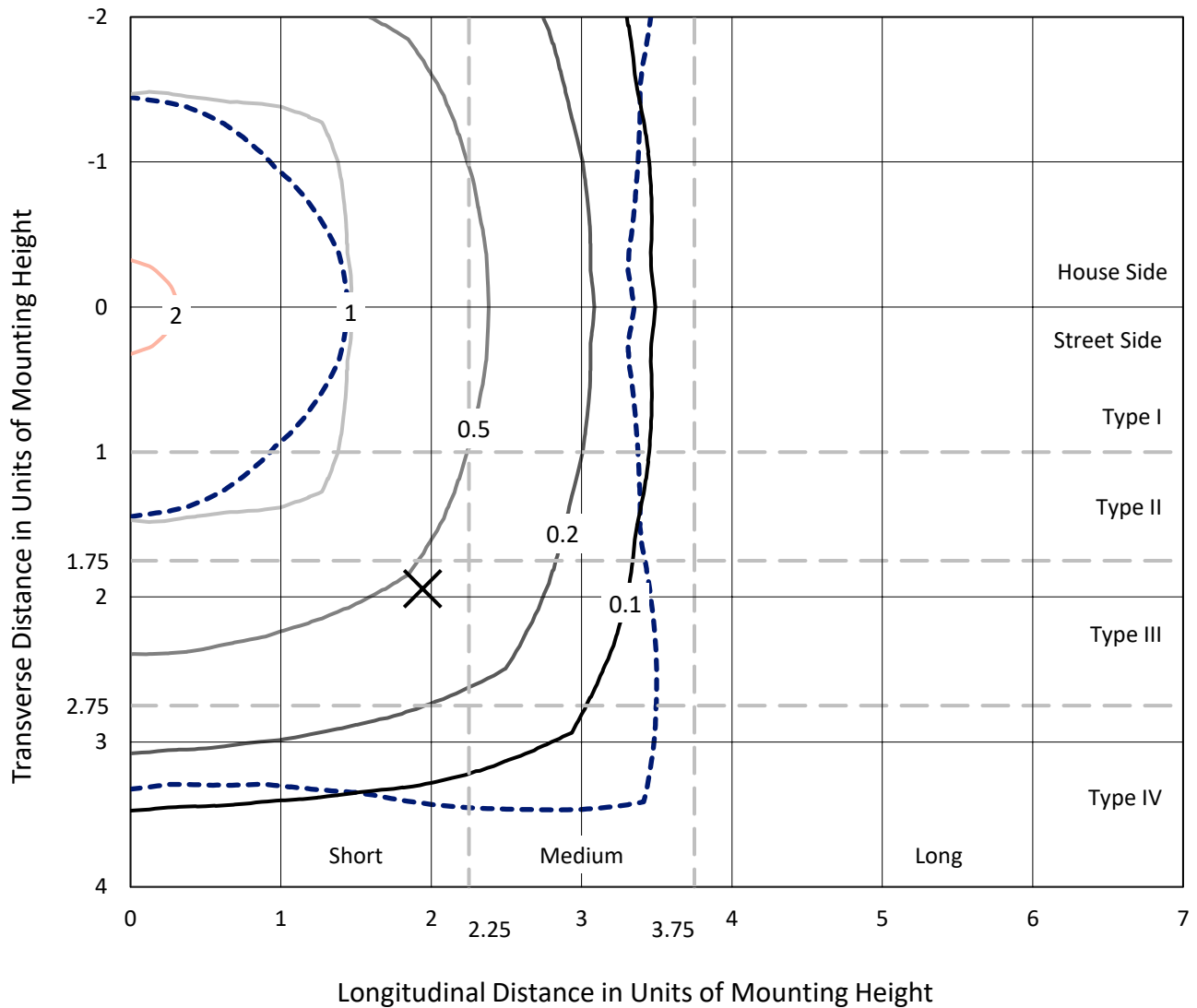
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

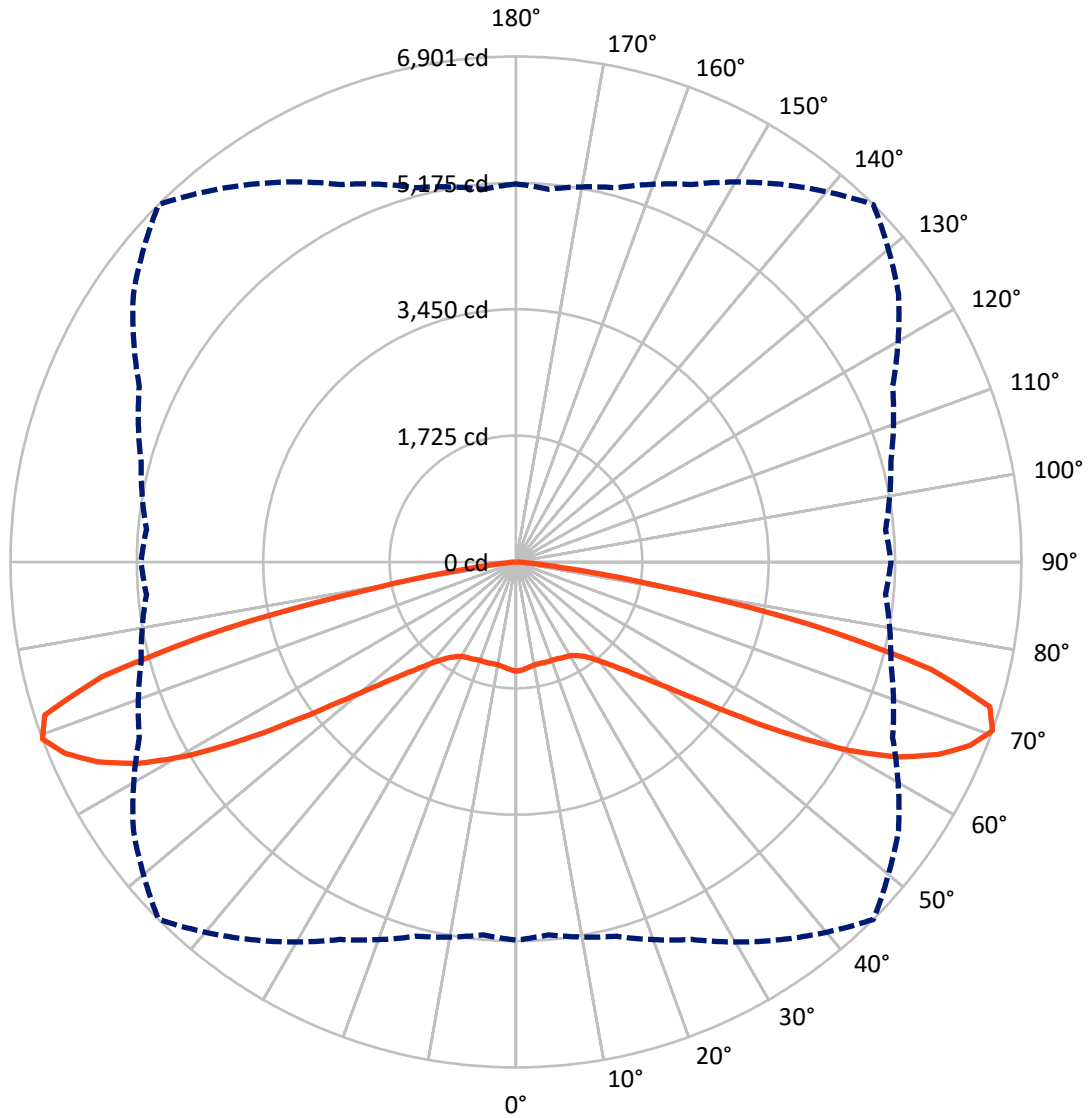
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	8170.0	0.0	8170.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8170.0	0.0	8170.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16340.0	0.0	16340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	0.8
10°-20°	407.1	2.5
20°-30°	677.5	4.1
30°-40°	1024.6	6.3
40°-50°	1702.7	10.4
50°-60°	3212.9	19.7
60°-70°	5425.0	33.2
70°-80°	3564.8	21.8
80°-90°	186.8	1.1
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°	16340.0	100.0
0°-180°	16340.0	100.0

Coefficient of Utilization



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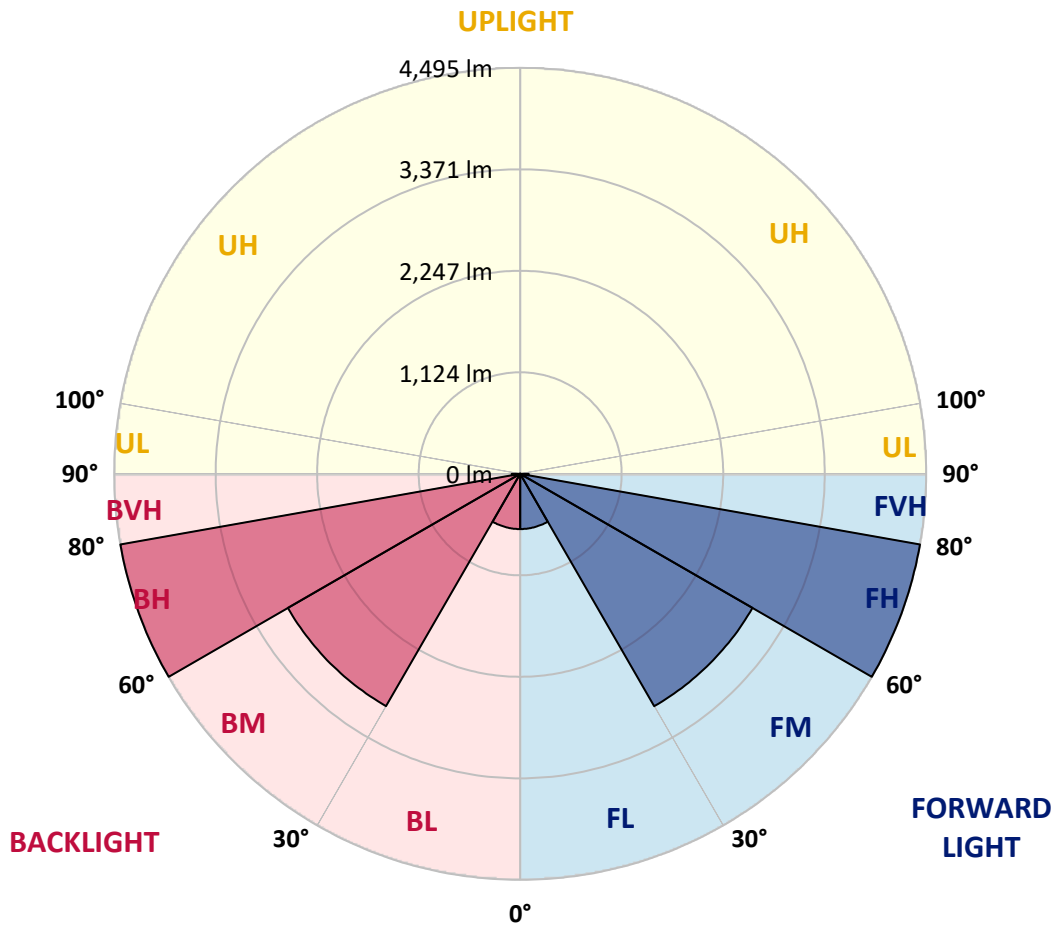
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.6	3.7			
FM (30°-60°)	2970.1	18.2			
FH (60°-80°)	4494.9	27.5			G2/5000
FVH (80°-90°)	93.4	0.6			G1/100
BL (0°-30°)	611.6	3.7	B2/1000		
BM (30°-60°)	2970.1	18.2	B3/5000		
BH (60°-80°)	4494.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	93.4	0.6			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°	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5
2.5°	1481.2	1485.4	1483.7	1480.3	1480.3	1477.8	1480.3	1482.0	1484.6	1486.3
5°	1461.7	1465.1	1464.2	1461.7	1462.5	1460.0	1461.7	1464.2	1465.9	1466.8
7.5°	1444.7	1448.1	1446.4	1442.1	1442.1	1439.6	1440.4	1443.0	1445.5	1446.4
10°	1440.4	1443.8	1438.7	1431.9	1429.4	1426.0	1426.8	1429.4	1434.5	1437.0
12.5°	1442.1	1444.7	1439.6	1429.4	1426.8	1423.4	1423.4	1426.0	1432.8	1436.2
15°	1447.2	1449.8	1442.1	1431.1	1428.5	1426.0	1425.1	1428.5	1436.2	1442.1
17.5°	1456.6	1459.1	1447.2	1431.9	1428.5	1429.4	1428.5	1431.1	1443.0	1454.0
20°	1465.1	1466.8	1450.6	1431.9	1428.5	1429.4	1428.5	1433.6	1448.9	1464.2
22.5°	1467.6	1469.3	1454.0	1437.9	1435.3	1436.2	1435.3	1440.4	1454.9	1470.2
25°	1468.5	1471.0	1459.1	1446.4	1450.6	1452.3	1450.6	1451.5	1462.5	1476.1
27.5°	1481.2	1484.6	1473.6	1462.5	1465.1	1464.2	1466.8	1469.3	1477.8	1491.4
30°	1507.5	1510.1	1500.7	1489.7	1488.0	1482.0	1489.7	1498.2	1507.5	1519.4
32.5°	1550.8	1555.9	1544.0	1532.2	1524.5	1521.1	1527.1	1541.5	1554.2	1567.0
35°	1623.0	1626.4	1615.4	1593.3	1579.7	1579.7	1584.8	1603.5	1623.9	1640.0
37.5°	1724.9	1729.2	1709.7	1683.3	1662.9	1662.9	1669.7	1689.3	1719.9	1742.8
40°	1848.9	1854.9	1830.3	1803.1	1783.5	1780.2	1788.6	1810.7	1839.6	1868.5
42.5°	1998.4	2005.2	1972.9	1949.2	1933.9	1933.9	1938.1	1958.5	1984.8	2020.5
45°	2189.5	2201.4	2157.2	2133.5	2119.0	2122.4	2125.0	2142.8	2166.6	2207.4
47.5°	2417.1	2429.0	2382.3	2357.7	2355.1	2371.3	2361.1	2373.8	2386.6	2433.3
50°	2675.3	2695.7	2663.4	2661.7	2666.8	2696.6	2672.8	2679.6	2665.1	2694.9
52.5°	2991.3	3021.0	3015.0	3025.2	3082.1	3143.3	3088.9	3065.2	3010.8	3020.1
55°	3374.3	3419.3	3427.8	3489.0	3618.1	3742.9	3627.4	3531.4	3415.9	3394.7
57.5°	3810.0	3845.7	3886.4	4011.3	4252.5	4474.2	4252.5	4040.2	3858.4	3815.1
60°	4278.8	4323.0	4362.1	4546.4	4904.8	5216.5	4898.0	4560.8	4320.4	4261.8
62.5°	4782.5	4839.4	4866.5	5071.2	5489.1	5861.1	5495.0	5086.5	4819.8	4757.0
65°	5265.7	5312.4	5343.0	5561.3	5960.4	6333.3	5987.6	5585.1	5310.7	5228.3
67.5°	5490.8	5516.3	5591.0	5838.1	6259.4	6684.9	6330.7	5864.5	5557.9	5413.5
70°	5161.2	5109.4	5289.5	5685.3	6295.1	6900.6	6376.6	5673.4	5298.0	5063.6
72.5°	3988.4	3899.2	4211.7	4888.6	5887.4	6763.0	5928.2	4926.8	4406.2	3930.6
75°	2170.0	2068.9	2500.4	3356.5	4695.0	5861.9	4802.8	3452.4	2784.0	2153.8
77.5°	612.4	574.1	922.3	1623.9	2824.0	4115.8	2932.7	1659.5	1093.9	648.9
80°	187.7	181.8	246.3	489.2	1199.2	1971.2	1152.5	495.1	313.4	197.9
82.5°	111.3	101.9	122.3	178.4	305.8	619.1	297.3	186.0	149.5	100.2
85°	63.7	59.5	72.2	86.6	102.8	131.6	85.8	88.3	79.8	53.5
87.5°	26.3	23.8	28.0	27.2	23.8	30.6	22.9	27.2	32.3	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1490.5
1485.4
1466.8
1446.4
1437.0
1437.0
1443.0
1454.0
1465.1
1470.2
1475.2
1488.0
1516.9
1561.9
1634.1
1734.3
1859.1
2018.0
2205.7
2419.7
2677.0
2988.7
3361.6
3784.5
4210.9
4706.0
5187.6
5415.2
5119.6
4048.7
2294.0
721.1
208.9
108.7
56.1
19.5
0.0

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