

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: P947644

Luminaire Tested: **GALN-SB2D-940-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947644
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-SB2D-940-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15443 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

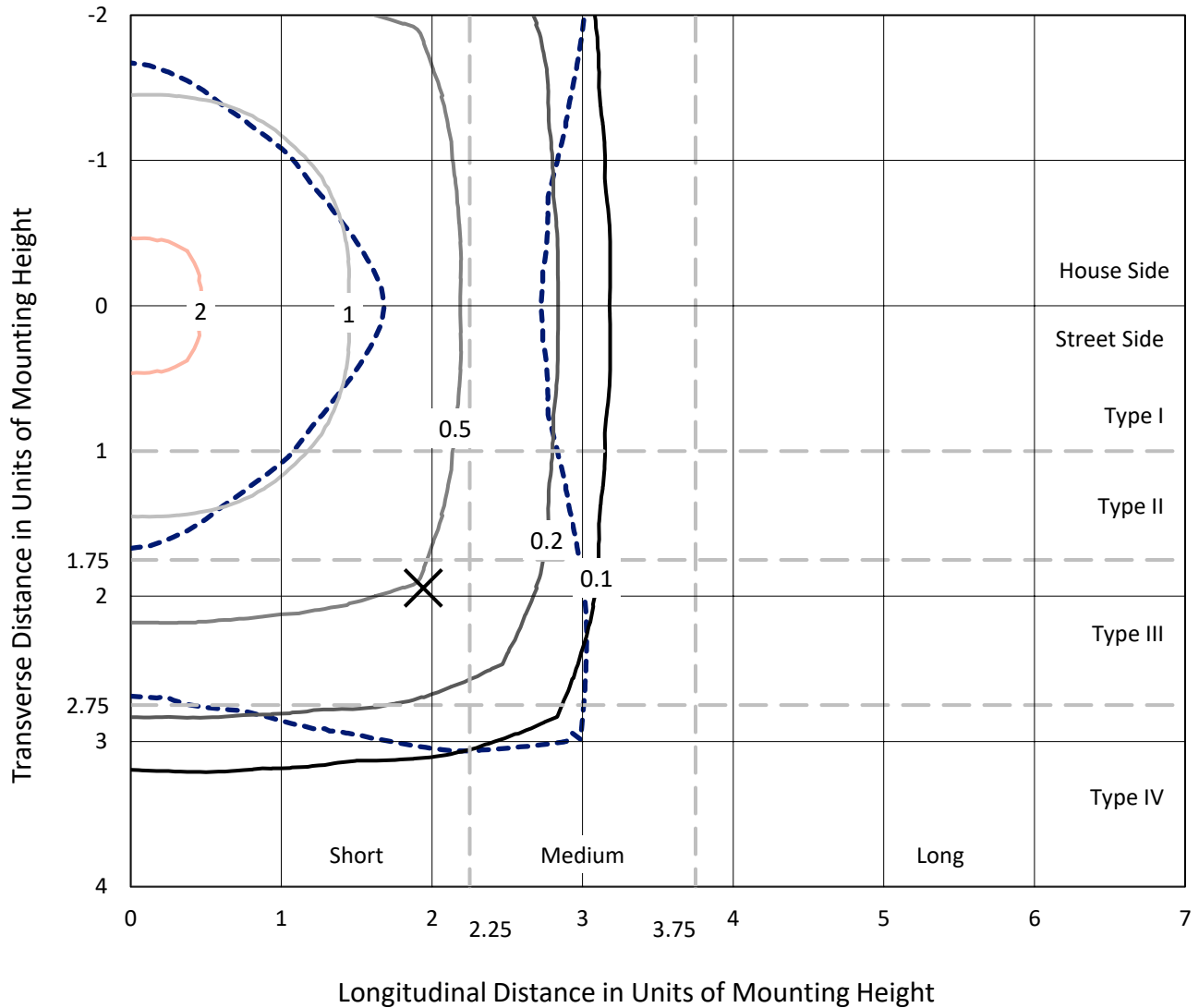
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

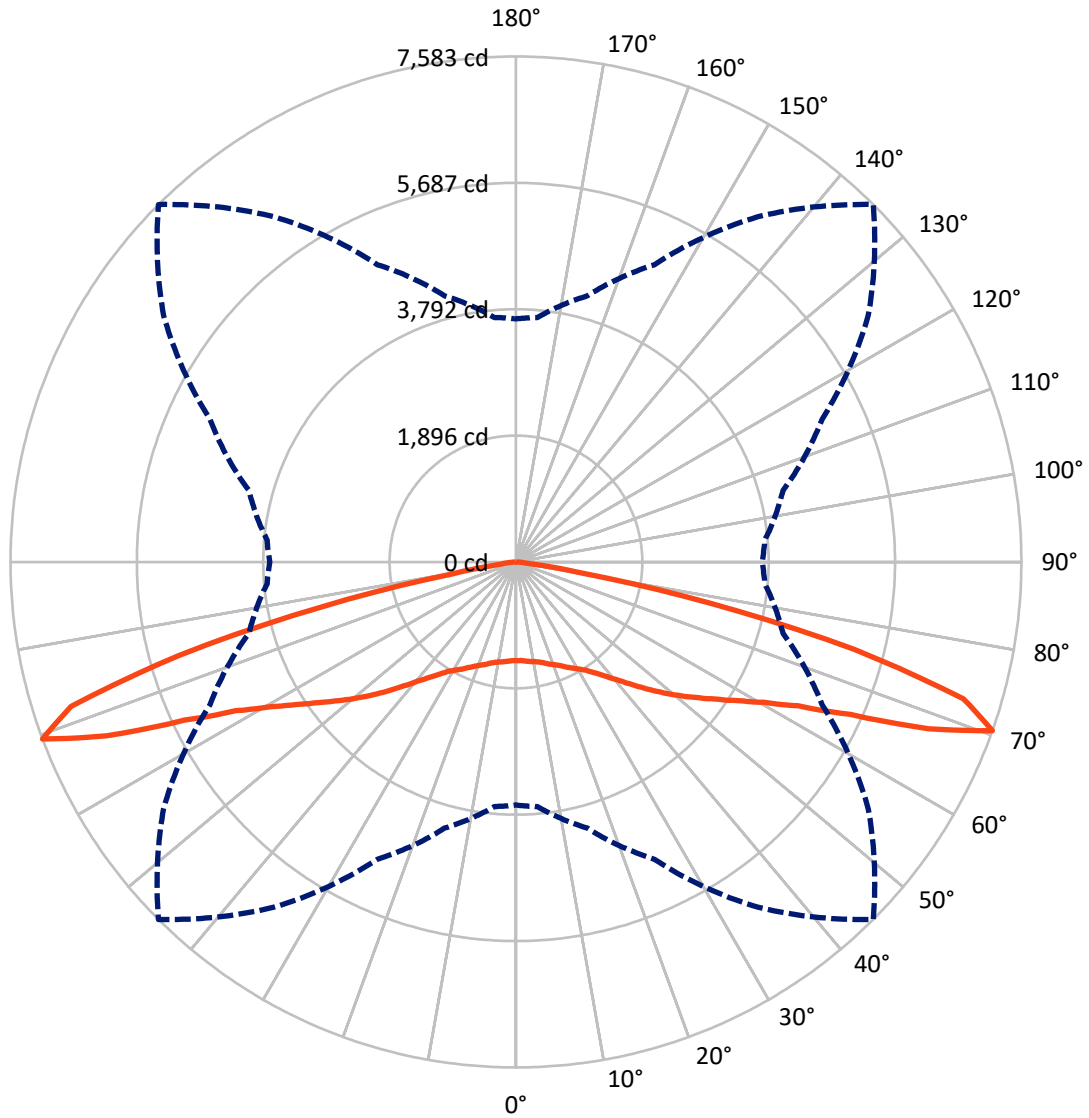
✕ Max cd
 - - - 1/2 Max cd



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	7721.5	0.0	7721.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7721.5	0.0	7721.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15443.0	0.0	15443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	0.9
10°-20°	445.6	2.9
20°-30°	796.4	5.2
30°-40°	1291.0	8.4
40°-50°	2102.8	13.6
50°-60°	3206.0	20.8
60°-70°	4769.5	30.9
70°-80°	2599.5	16.8
80°-90°	88.5	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°	15443.0	100.0
0°-180°	15443.0	100.0

Coefficient of Utilization



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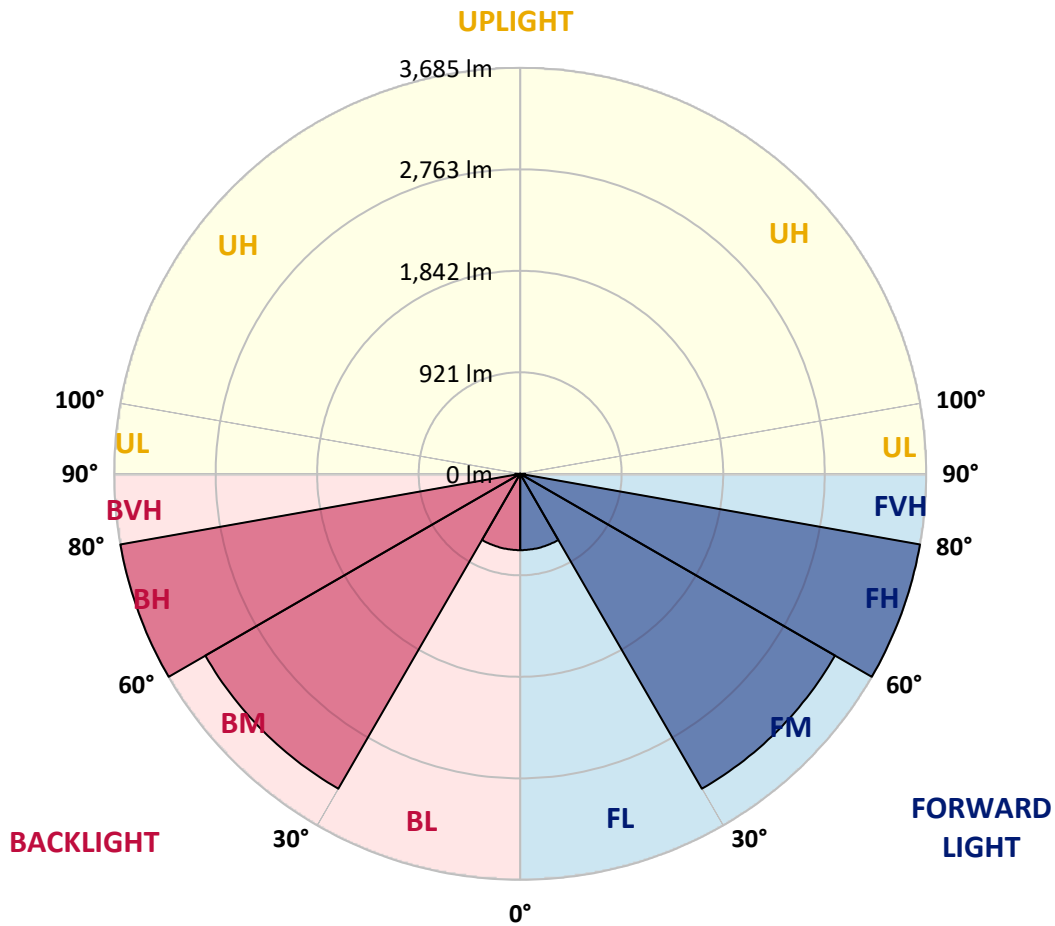
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.9	4.5			
FM (30°-60°)	3299.8	21.4			
FH (60°-80°)	3684.5	23.9			G2/5000
FVH (80°-90°)	44.3	0.3			G1/100
BL (0°-30°)	692.9	4.5	B2/1000		
BM (30°-60°)	3299.8	21.4	B3/5000		
BH (60°-80°)	3684.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	44.3	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°	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1486.3	1487.8	1484.7	1483.2	1481.6	1479.3	1480.1	1483.9	1487.0	1486.3
5°	1498.7	1500.2	1497.9	1497.1	1494.0	1493.2	1493.2	1497.1	1499.4	1497.9
7.5°	1512.6	1514.9	1511.1	1510.3	1508.7	1507.2	1506.4	1510.3	1512.6	1512.6
10°	1525.8	1528.1	1525.0	1522.7	1521.1	1521.1	1519.6	1522.7	1526.6	1525.8
12.5°	1539.8	1541.3	1538.2	1536.7	1536.7	1539.0	1536.7	1538.2	1541.3	1539.8
15°	1556.8	1557.6	1556.8	1559.1	1563.0	1570.8	1563.8	1562.2	1563.8	1559.9
17.5°	1580.1	1581.6	1584.7	1590.1	1595.6	1609.5	1597.1	1593.2	1593.2	1585.5
20°	1608.8	1611.1	1615.7	1625.0	1632.0	1645.2	1632.8	1627.4	1625.0	1615.0
22.5°	1639.0	1642.9	1649.8	1662.3	1674.7	1687.1	1674.7	1665.4	1658.4	1645.2
25°	1673.9	1678.5	1689.4	1709.5	1726.6	1744.4	1729.7	1711.1	1697.1	1678.5
27.5°	1723.5	1728.9	1742.1	1766.9	1788.6	1804.1	1790.2	1766.1	1746.8	1724.3
30°	1793.3	1798.7	1814.2	1840.6	1855.3	1865.4	1856.1	1837.5	1814.2	1788.6
32.5°	1883.2	1890.2	1907.2	1932.1	1935.2	1936.7	1933.6	1924.3	1907.2	1876.2
35°	1997.2	2004.9	2024.3	2044.5	2041.4	2044.5	2039.8	2036.7	2024.3	1988.7
37.5°	2136.7	2146.0	2166.2	2181.7	2174.0	2170.1	2170.9	2171.6	2164.6	2125.1
40°	2298.8	2311.2	2325.9	2342.2	2329.0	2317.4	2325.1	2331.3	2325.1	2284.8
42.5°	2465.5	2483.3	2498.8	2522.1	2511.2	2496.5	2507.3	2514.3	2501.1	2457.7
45°	2650.8	2667.8	2688.0	2722.9	2715.1	2699.6	2715.1	2716.7	2694.2	2643.0
47.5°	2842.3	2860.1	2890.3	2936.9	2933.7	2916.7	2936.9	2926.0	2897.3	2836.1
50°	3023.7	3048.5	3095.0	3160.1	3166.3	3145.4	3172.5	3151.6	3103.5	3026.8
52.5°	3194.3	3220.6	3294.3	3382.7	3405.1	3378.0	3414.4	3378.0	3305.9	3207.4
55°	3373.3	3402.8	3490.4	3605.9	3650.9	3630.7	3664.9	3609.8	3507.5	3388.1
57.5°	3584.2	3602.1	3706.7	3844.0	3919.9	3924.6	3940.1	3847.1	3723.0	3587.3
60°	3812.9	3837.8	3951.7	4116.1	4236.3	4275.0	4258.7	4120.7	3976.5	3820.7
62.5°	4106.0	4133.1	4269.6	4466.5	4656.5	4752.6	4689.0	4489.0	4310.7	4123.8
65°	4348.7	4378.9	4625.5	4976.7	5322.5	5515.5	5355.8	4987.5	4666.6	4403.0
67.5°	4172.7	4209.9	4596.8	5241.8	6101.6	6677.7	6131.1	5320.9	4692.1	4334.7
70°	3647.0	3681.9	4133.1	4921.6	6321.1	7583.2	6452.9	5066.6	4147.9	3747.8
72.5°	2421.3	2533.7	2990.3	3936.2	5644.2	7017.3	5700.0	3856.4	2774.0	2415.8
75°	803.2	893.1	1204.8	2040.6	3780.4	5248.0	3599.0	1805.7	954.4	686.9
77.5°	202.4	233.4	321.8	583.8	1508.0	2988.0	1357.6	476.8	259.7	181.4
80°	98.5	108.5	155.1	194.6	377.6	949.7	354.3	183.0	122.5	94.6
82.5°	54.3	55.0	87.6	110.1	140.3	245.8	145.8	107.0	70.6	57.4
85°	33.3	32.6	46.5	58.9	58.9	87.6	69.8	58.9	40.3	35.7
87.5°	13.2	13.2	17.1	18.6	16.3	22.5	17.8	19.4	15.5	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1479.3
1487.0
1498.7
1512.6
1525.8
1539.0
1559.9
1585.5
1615.0
1644.4
1677.8
1723.5
1788.6
1877.0
1988.7
2125.1
2284.8
2460.8
2648.4
2832.2
3025.2
3198.1
3371.8
3568.7
3795.9
4091.3
4359.5
4281.2
3694.3
2337.5
649.7
162.0
86.8
57.4
37.2
15.5
0.0

OF REPORT)