

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: P941580

Luminaire Tested: **GALN-SB5A-940-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941580  
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-SB5A-940-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

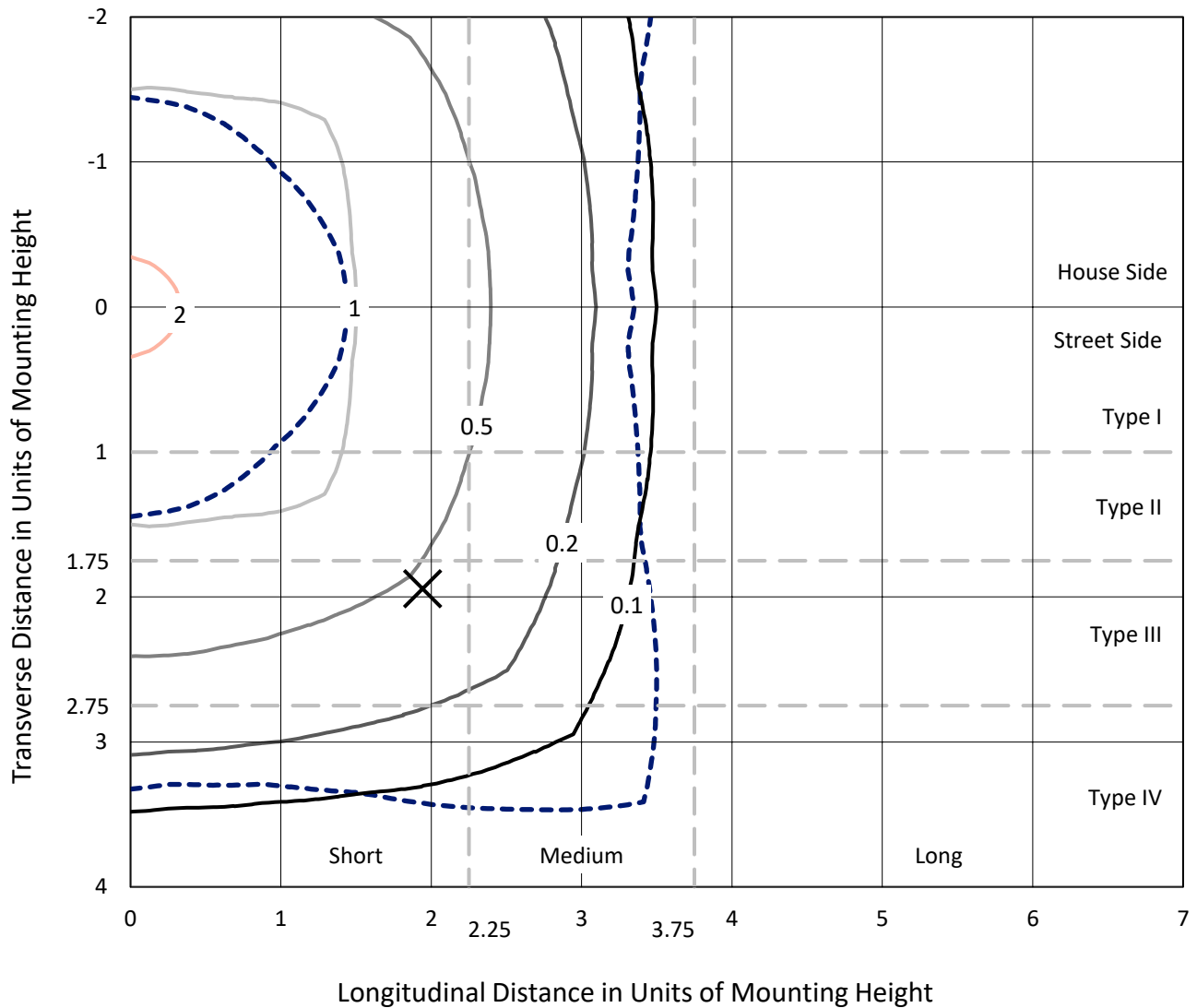
Lumens per Lamp: N/A  
Luminaire Lumens: 16609 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

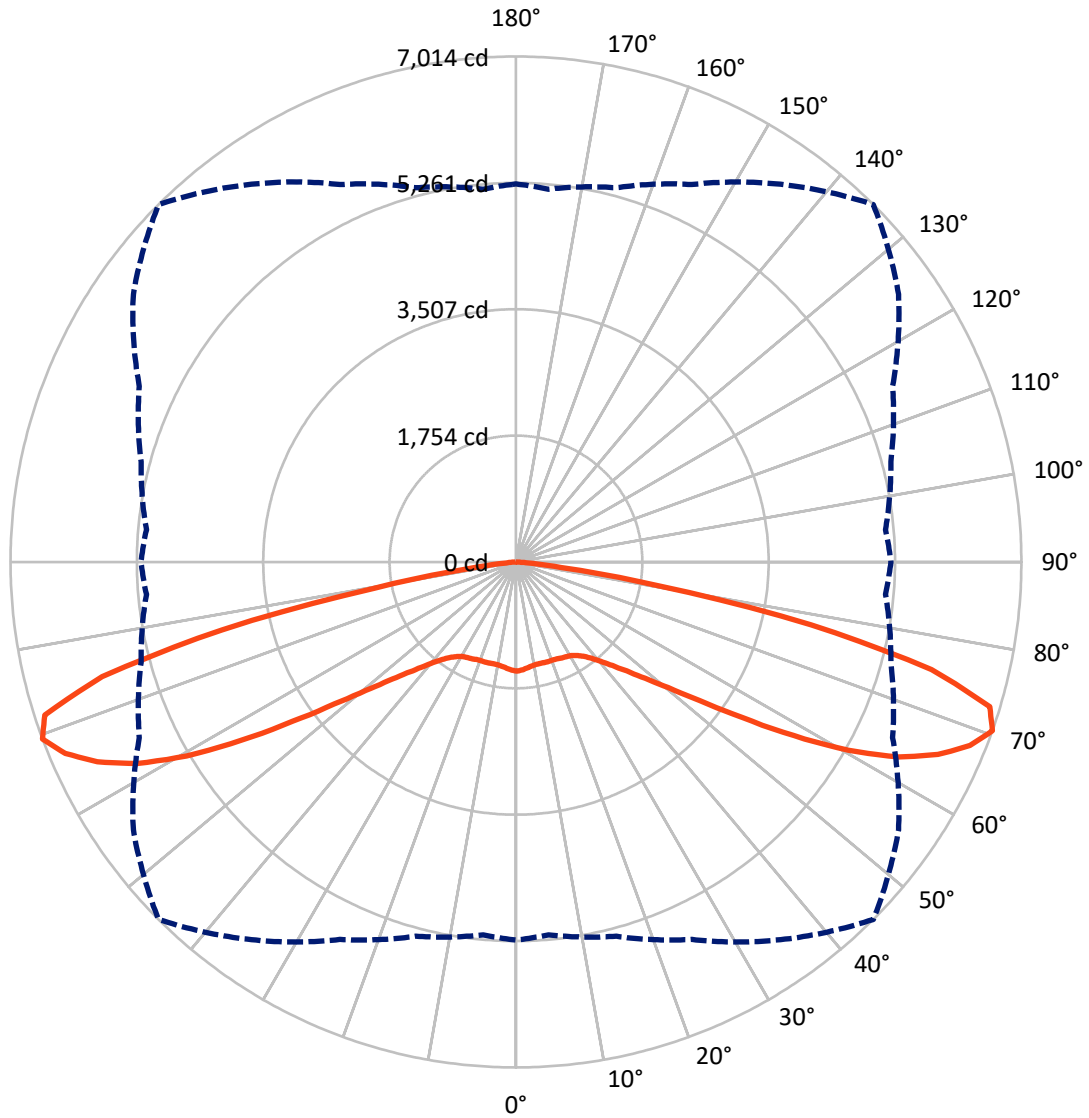
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8304.5	0.0	8304.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8304.5	0.0	8304.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16609.0	0.0	16609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	0.8
10°-20°	413.8	2.5
20°-30°	688.7	4.1
30°-40°	1041.5	6.3
40°-50°	1730.7	10.4
50°-60°	3265.7	19.7
60°-70°	5514.3	33.2
70°-80°	3623.5	21.8
80°-90°	189.8	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°	16609.0	100.0
0°-180°	16609.0	100.0

**Coefficient of Utilization**



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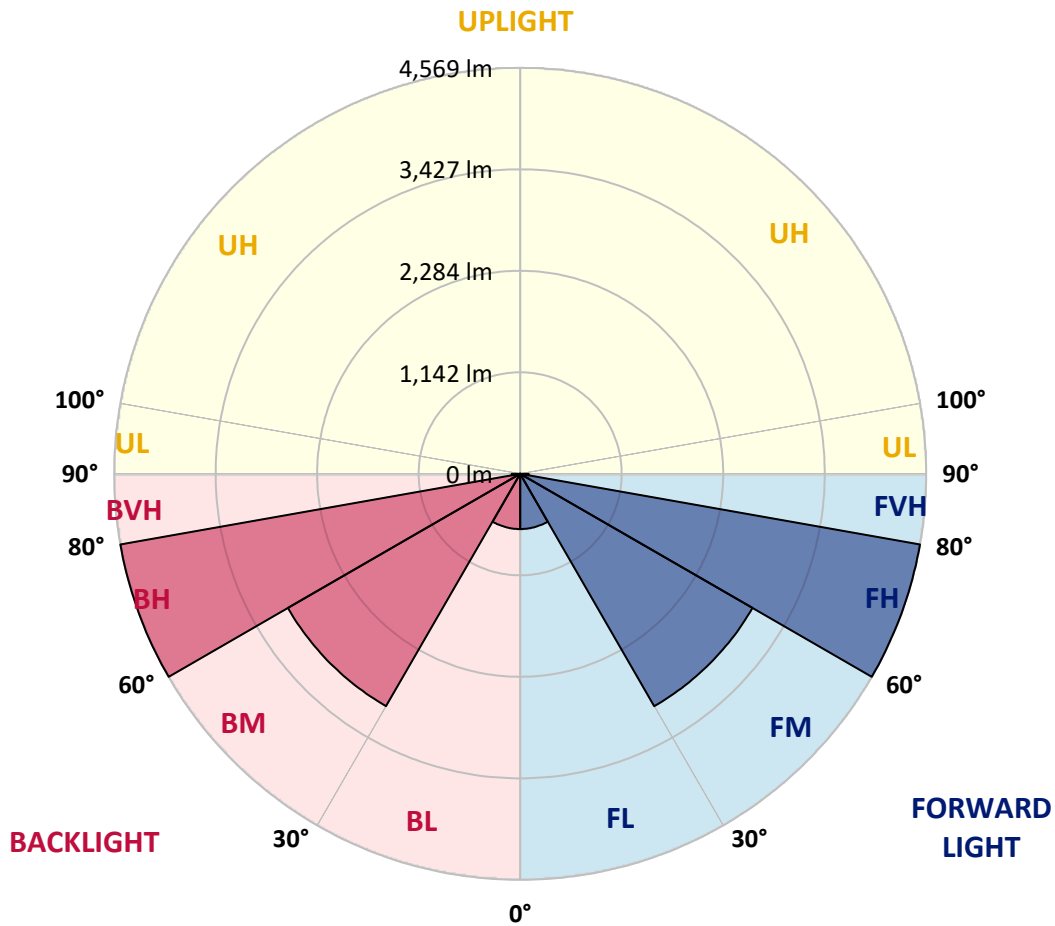
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.7	3.7			
FM (30°-60°)	3018.9	18.2			
FH (60°-80°)	4568.9	27.5			G2/5000
FVH (80°-90°)	94.9	0.6			G1/100
BL (0°-30°)	621.7	3.7	B2/1000		
BM (30°-60°)	3018.9	18.2	B3/5000		
BH (60°-80°)	4568.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	94.9	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°	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1505.6	1509.9	1508.2	1504.7	1504.7	1502.1	1504.7	1506.4	1509.0	1510.8
5°	1485.7	1489.2	1488.3	1485.7	1486.6	1484.0	1485.7	1488.3	1490.0	1490.9
7.5°	1468.5	1471.9	1470.2	1465.9	1465.9	1463.3	1464.1	1466.7	1469.3	1470.2
10°	1464.1	1467.6	1462.4	1455.5	1452.9	1449.5	1450.3	1452.9	1458.1	1460.7
12.5°	1465.9	1468.5	1463.3	1452.9	1450.3	1446.9	1446.9	1449.5	1456.4	1459.8
15°	1471.0	1473.6	1465.9	1454.6	1452.1	1449.5	1448.6	1452.1	1459.8	1465.9
17.5°	1480.5	1483.1	1471.0	1455.5	1452.1	1452.9	1452.1	1454.6	1466.7	1478.0
20°	1489.2	1490.9	1474.5	1455.5	1452.1	1452.9	1452.1	1457.2	1472.8	1488.3
22.5°	1491.8	1493.5	1478.0	1461.6	1459.0	1459.8	1459.0	1464.1	1478.8	1494.4
25°	1492.6	1495.2	1483.1	1470.2	1474.5	1476.2	1474.5	1475.4	1486.6	1500.4
27.5°	1505.6	1509.0	1497.8	1486.6	1489.2	1488.3	1490.9	1493.5	1502.1	1515.9
30°	1532.3	1534.9	1525.4	1514.2	1512.5	1506.4	1514.2	1522.8	1532.3	1544.4
32.5°	1576.4	1581.5	1569.5	1557.4	1549.6	1546.2	1552.2	1566.9	1579.8	1592.8
35°	1649.7	1653.2	1642.0	1619.5	1605.7	1605.7	1610.9	1629.9	1650.6	1667.0
37.5°	1753.3	1757.7	1737.8	1711.0	1690.3	1690.3	1697.2	1717.1	1748.2	1771.5
40°	1879.4	1885.4	1860.4	1832.8	1812.9	1809.5	1818.1	1840.5	1869.9	1899.2
42.5°	2031.3	2038.2	2005.4	1981.3	1965.7	1965.7	1970.0	1990.7	2017.5	2053.8
45°	2225.6	2237.6	2192.8	2168.6	2153.9	2157.4	2160.0	2178.1	2202.3	2243.7
47.5°	2456.9	2469.0	2421.5	2396.5	2393.9	2410.3	2399.9	2412.9	2425.8	2473.3
50°	2719.4	2740.1	2707.3	2705.6	2710.7	2740.9	2716.8	2723.7	2709.0	2739.2
52.5°	3040.5	3070.7	3064.7	3075.0	3132.9	3195.0	3139.8	3115.6	3060.4	3069.9
55°	3429.9	3475.6	3484.2	3546.4	3677.6	3804.5	3687.1	3589.6	3472.2	3450.6
57.5°	3872.7	3909.0	3950.4	4077.3	4322.5	4547.8	4322.5	4106.7	3921.9	3877.9
60°	4349.3	4394.1	4433.9	4621.2	4985.5	5302.3	4978.6	4635.9	4391.6	4332.0
62.5°	4861.2	4919.0	4946.7	5154.7	5579.4	5957.6	5585.5	5170.2	4899.2	4835.3
65°	5352.4	5399.9	5431.0	5652.8	6058.6	6437.6	6086.2	5677.0	5398.2	5314.4
67.5°	5581.2	5607.1	5683.0	5934.3	6362.5	6795.0	6435.0	5961.0	5649.4	5502.6
70°	5246.2	5193.6	5376.6	5778.9	6398.7	7014.2	6481.6	5766.8	5385.2	5146.9
72.5°	4054.0	3963.4	4281.1	4969.1	5984.3	6874.4	6025.8	5007.9	4478.8	3995.3
75°	2205.7	2103.0	2541.5	3411.7	4772.3	5958.4	4881.9	3509.3	2829.9	2189.3
77.5°	622.4	583.6	937.5	1650.6	2870.4	4183.5	2980.9	1686.9	1111.9	659.6
80°	190.8	184.7	250.4	497.3	1219.0	2003.7	1171.5	503.3	318.6	201.1
82.5°	113.1	103.6	124.3	181.3	310.8	629.3	302.2	189.1	151.9	101.9
85°	64.7	60.4	73.4	88.1	104.5	133.8	87.2	89.8	81.1	54.4
87.5°	26.8	24.2	28.5	27.6	24.2	31.1	23.3	27.6	32.8	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1515.1
1509.9
1490.9
1470.2
1460.7
1460.7
1466.7
1478.0
1489.2
1494.4
1499.5
1512.5
1541.8
1587.6
1661.0
1762.8
1889.7
2051.2
2242.0
2459.5
2721.1
3037.9
3416.9
3846.8
4280.2
4783.5
5273.0
5504.3
5203.9
4115.3
2331.7
732.9
212.4
110.5
57.0
19.9
0.0

OF REPORT)