

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: P939670

Luminaire Tested: **GALN-SB2B-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939670
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-SB2B-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10895 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

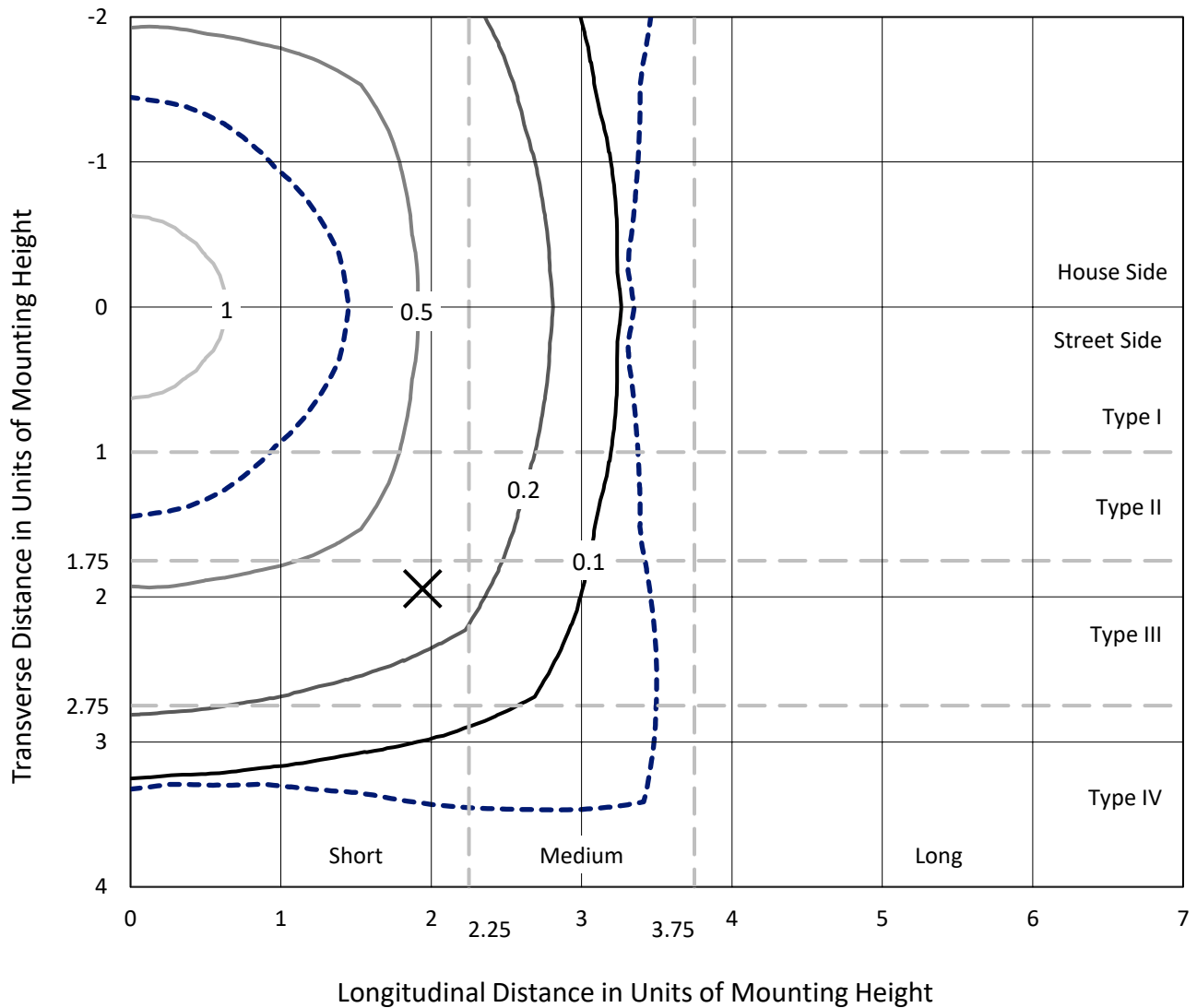
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

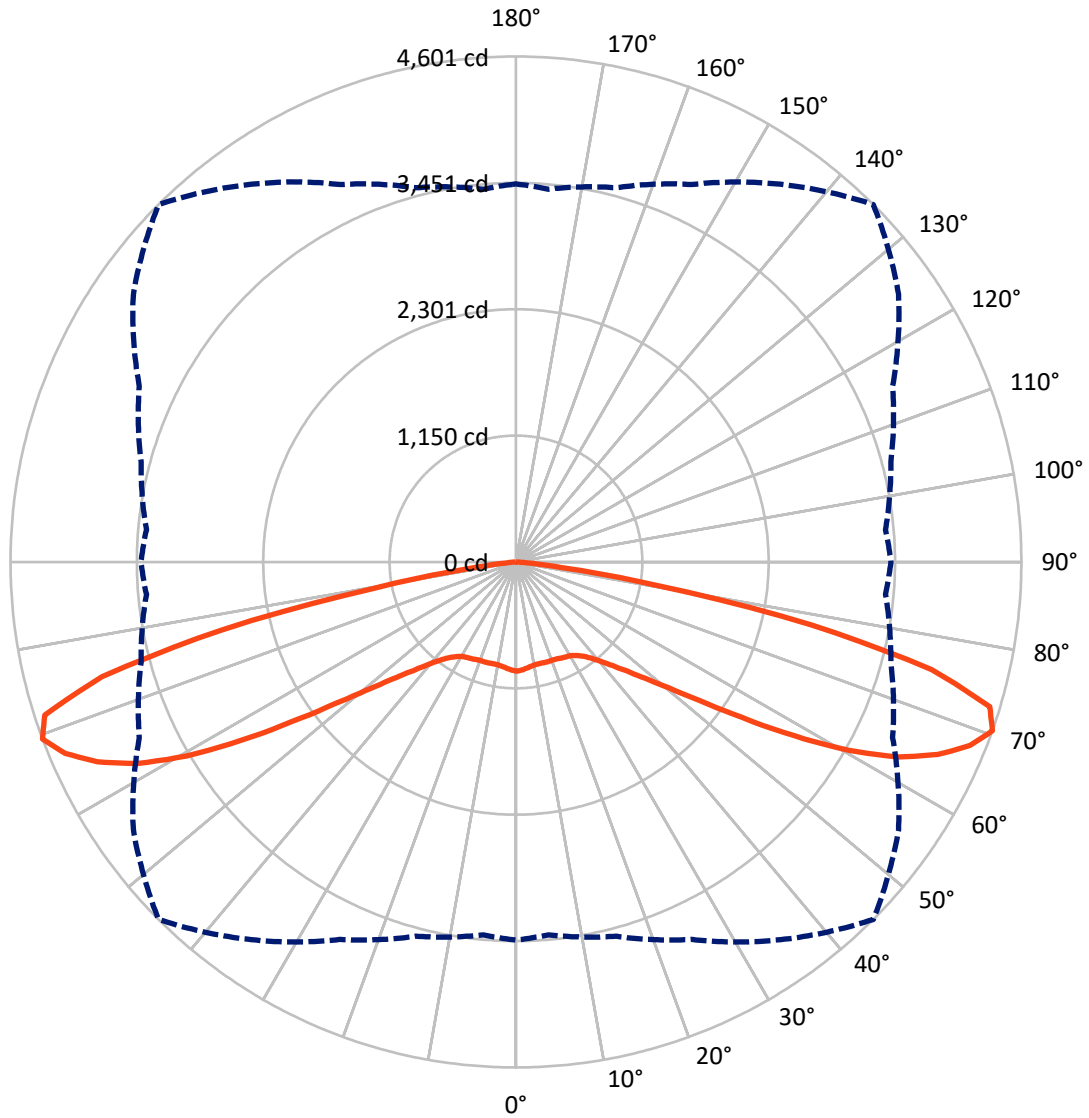
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	5447.5	0.0	5447.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5447.5	0.0	5447.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10895.0	0.0	10895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	0.8
10°-20°	271.5	2.5
20°-30°	451.7	4.1
30°-40°	683.2	6.3
40°-50°	1135.3	10.4
50°-60°	2142.2	19.7
60°-70°	3617.2	33.2
70°-80°	2376.9	21.8
80°-90°	124.5	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°	10895.0	100.0
0°-180°	10895.0	100.0

Coefficient of Utilization



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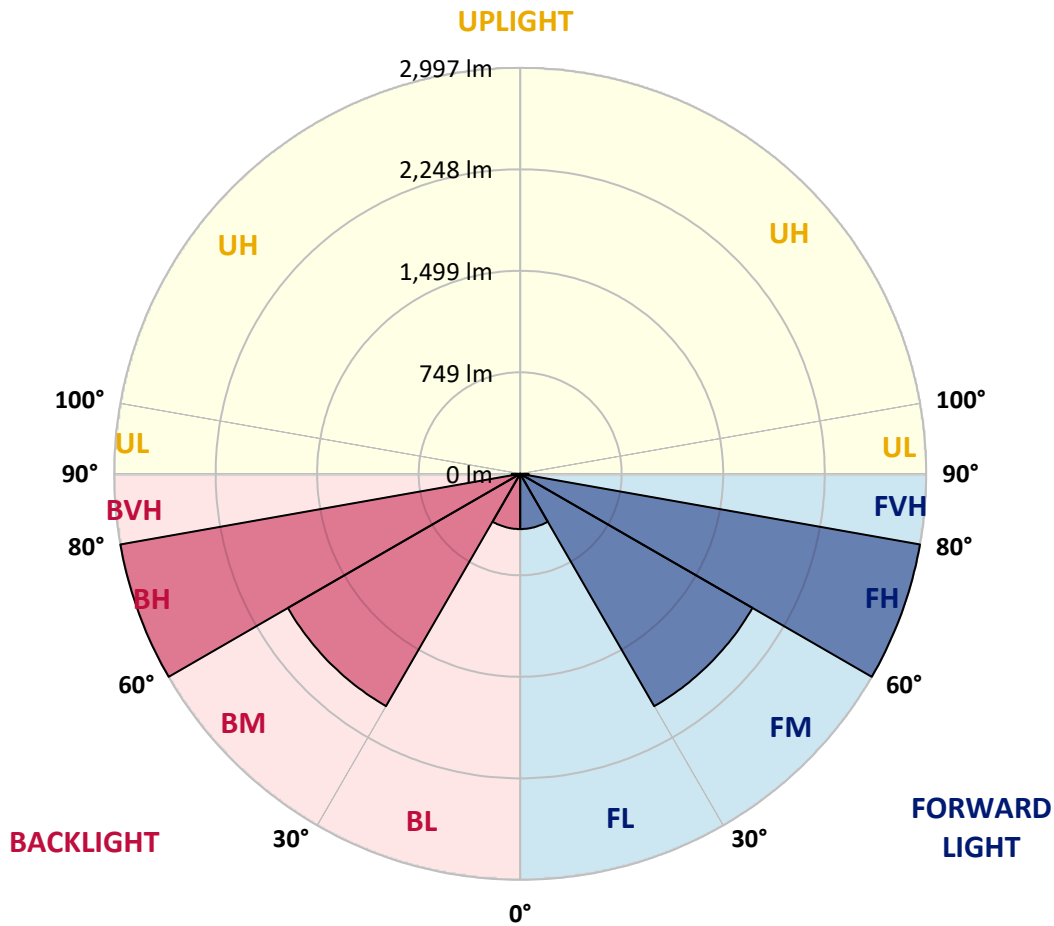
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.8	3.7			
FM (30°-60°)	1980.3	18.2			
FH (60°-80°)	2997.1	27.5			G2/5000
FVH (80°-90°)	62.3	0.6			G1/100
BL (0°-30°)	407.8	3.7	B1/500		
BM (30°-60°)	1980.3	18.2	B2/2500		
BH (60°-80°)	2997.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	62.3	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°	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8
2.5°	987.6	990.4	989.3	987.0	987.0	985.3	987.0	988.2	989.9	991.0
5°	974.6	976.9	976.3	974.6	975.2	973.5	974.6	976.3	977.4	978.0
7.5°	963.3	965.5	964.4	961.6	961.6	959.9	960.4	962.1	963.8	964.4
10°	960.4	962.7	959.3	954.8	953.1	950.8	951.4	953.1	956.5	958.2
12.5°	961.6	963.3	959.9	953.1	951.4	949.1	949.1	950.8	955.3	957.6
15°	965.0	966.7	961.6	954.2	952.5	950.8	950.2	952.5	957.6	961.6
17.5°	971.2	972.9	965.0	954.8	952.5	953.1	952.5	954.2	962.1	969.5
20°	976.9	978.0	967.2	954.8	952.5	953.1	952.5	955.9	966.1	976.3
22.5°	978.6	979.7	969.5	958.7	957.0	957.6	957.0	960.4	970.1	980.3
25°	979.1	980.8	972.9	964.4	967.2	968.4	967.2	967.8	975.2	984.2
27.5°	987.6	989.9	982.5	975.2	976.9	976.3	978.0	979.7	985.3	994.4
30°	1005.2	1006.9	1000.6	993.3	992.1	988.2	993.3	998.9	1005.2	1013.1
32.5°	1034.1	1037.4	1029.5	1021.6	1016.5	1014.2	1018.2	1027.8	1036.3	1044.8
35°	1082.2	1084.5	1077.1	1062.4	1053.3	1053.3	1056.7	1069.2	1082.8	1093.5
37.5°	1150.1	1153.0	1139.9	1122.4	1108.8	1108.8	1113.3	1126.4	1146.7	1162.0
40°	1232.8	1236.8	1220.4	1202.2	1189.2	1186.9	1192.6	1207.3	1226.6	1245.8
42.5°	1332.5	1337.0	1315.5	1299.6	1289.4	1289.4	1292.3	1305.9	1323.4	1347.2
45°	1459.9	1467.8	1438.4	1422.5	1412.9	1415.2	1416.9	1428.8	1444.6	1471.8
47.5°	1611.7	1619.6	1588.5	1572.0	1570.3	1581.1	1574.3	1582.8	1591.3	1622.4
50°	1783.8	1797.4	1775.9	1774.8	1778.2	1798.0	1782.1	1786.7	1777.0	1796.8
52.5°	1994.5	2014.3	2010.3	2017.1	2055.1	2095.8	2059.6	2043.7	2007.5	2013.7
55°	2249.9	2279.9	2285.6	2326.3	2412.4	2495.7	2418.6	2354.6	2277.6	2263.5
57.5°	2540.4	2564.2	2591.4	2674.6	2835.4	2983.2	2835.4	2693.9	2572.7	2543.8
60°	2853.0	2882.4	2908.5	3031.4	3270.3	3478.2	3265.8	3041.0	2880.7	2841.7
62.5°	3188.8	3226.7	3244.9	3381.3	3659.9	3908.0	3663.9	3391.5	3213.7	3171.8
65°	3511.0	3542.2	3562.5	3708.1	3974.2	4222.8	3992.4	3723.9	3541.0	3486.1
67.5°	3661.1	3678.1	3727.9	3892.7	4173.6	4457.3	4221.1	3910.2	3705.8	3609.5
70°	3441.4	3406.8	3526.9	3790.8	4197.4	4601.1	4251.7	3782.8	3532.5	3376.2
72.5°	2659.3	2599.8	2808.2	3259.6	3925.5	4509.4	3952.7	3285.1	2937.9	2620.8
75°	1446.9	1379.5	1667.2	2238.0	3130.5	3908.6	3202.4	2302.0	1856.3	1436.1
77.5°	408.3	382.8	615.0	1082.8	1882.9	2744.3	1955.4	1106.5	729.4	432.6
80°	125.2	121.2	164.2	326.2	799.6	1314.4	768.5	330.1	209.0	131.9
82.5°	74.2	68.0	81.5	118.9	203.9	412.8	198.2	124.0	99.7	66.8
85°	42.5	39.6	48.1	57.8	68.5	87.8	57.2	58.9	53.2	35.7
87.5°	17.6	15.9	18.7	18.1	15.9	20.4	15.3	18.1	21.5	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

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