

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: P953990

Luminaire Tested: **GALN-SB7B-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39445 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

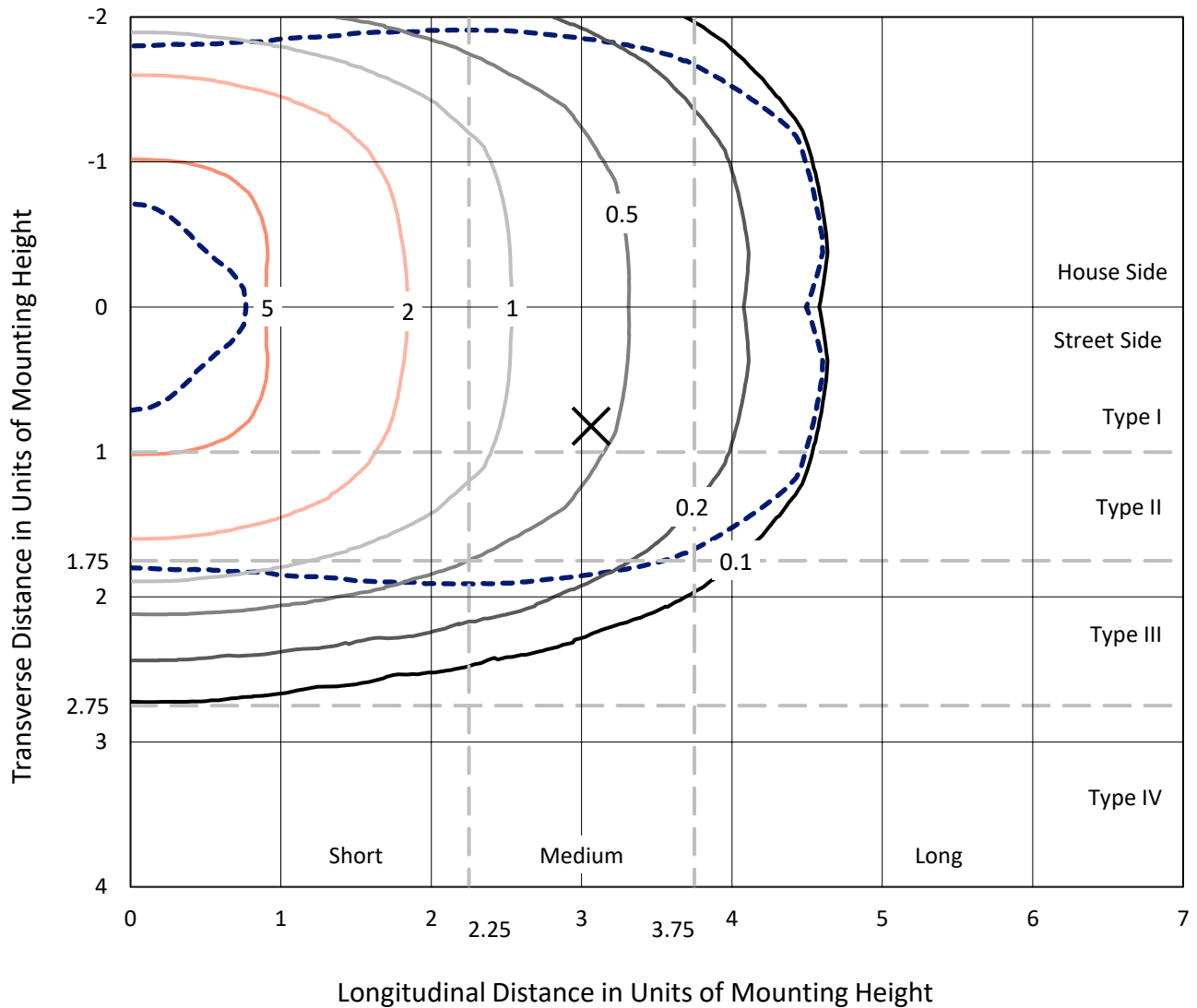
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

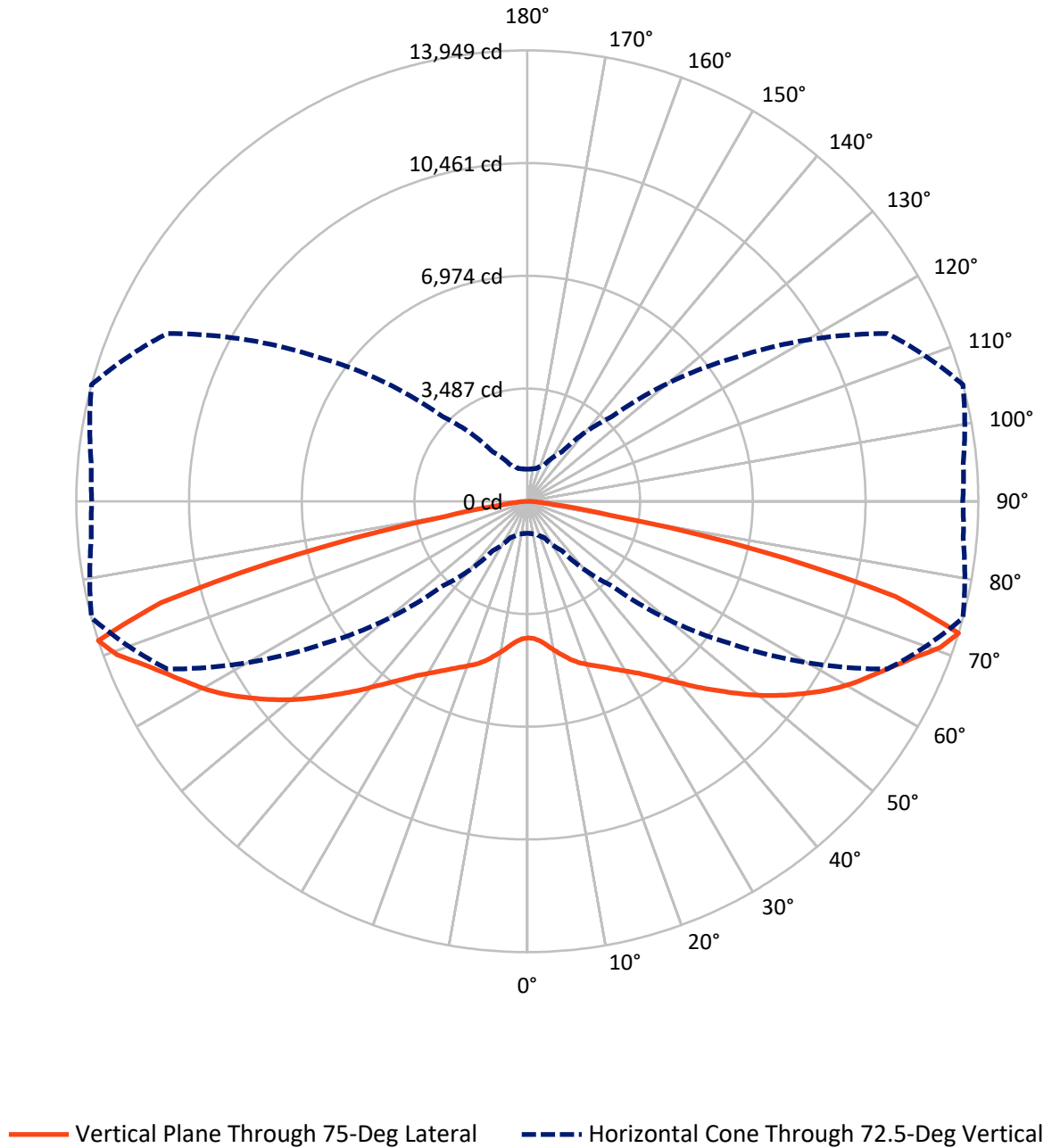
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19722.5	0.0	19722.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19722.5	0.0	19722.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39445.0	0.0	39445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	1.0
10°-20°	1365.1	3.5
20°-30°	2637.8	6.7
30°-40°	4454.1	11.3
40°-50°	7063.8	17.9
50°-60°	9457.5	24.0
60°-70°	9000.5	22.8
70°-80°	4696.6	11.9
80°-90°	355.5	0.9
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°	39445.0	100.0
0°-180°	39445.0	100.0

Coefficient of Utilization



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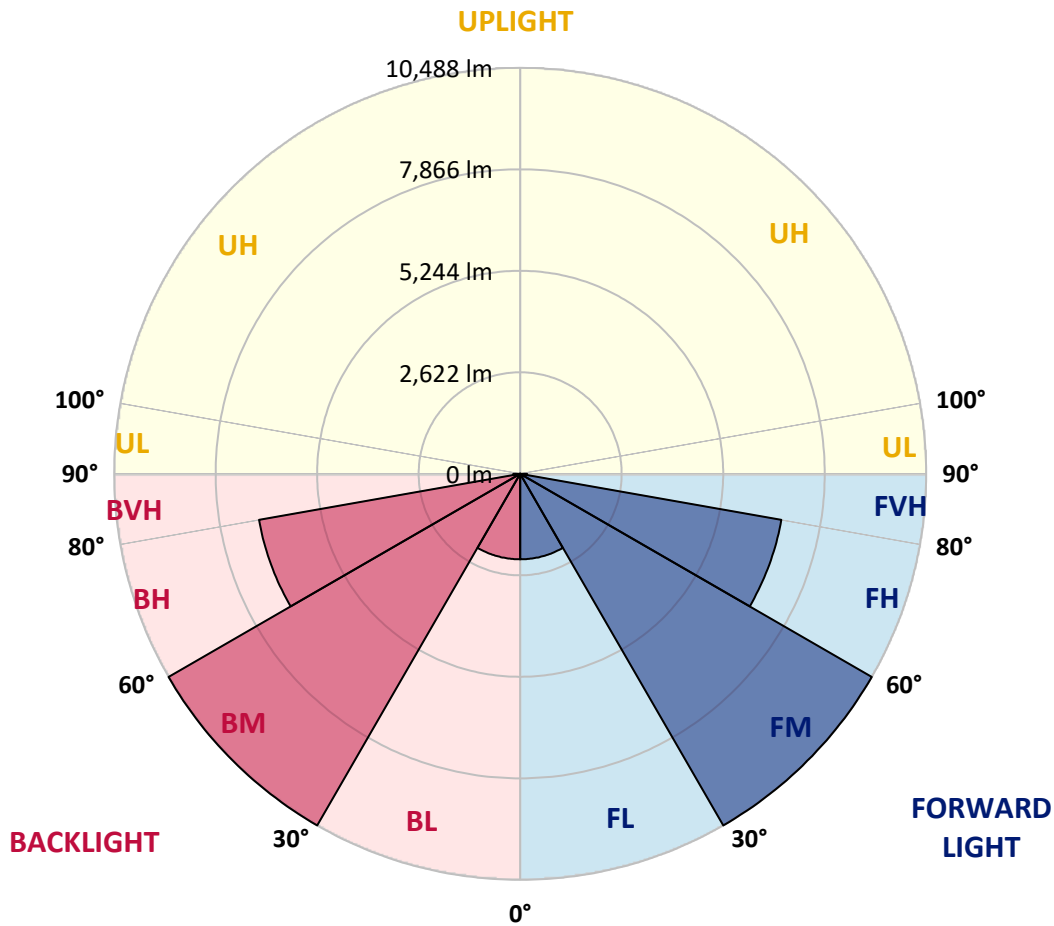
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2208.4	5.6			
FM (30°-60°)	10487.7	26.6			
FH (60°-80°)	6848.6	17.4			G3/7500
FVH (80°-90°)	177.8	0.5			G2/225
BL (0°-30°)	2208.4	5.6	B3/2500		
BM (30°-60°)	10487.7	26.6	B5		
BH (60°-80°)	6848.6	17.4	B5		G5
BVH (80°-90°)	177.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4225.3	4221.2	4225.3	4229.3	4227.3	4227.3	4237.3	4243.4	4255.5	4253.5
5°	4197.1	4195.1	4211.2	4229.3	4243.4	4267.6	4297.8	4319.9	4348.1	4354.2
7.5°	4183.0	4176.9	4205.1	4237.3	4281.7	4342.1	4400.5	4460.9	4509.2	4525.3
10°	4193.0	4195.1	4233.3	4293.7	4364.2	4448.8	4531.4	4634.1	4702.6	4718.7
12.5°	4239.4	4235.3	4299.8	4396.5	4493.1	4599.9	4696.5	4809.3	4883.8	4922.1
15°	4323.9	4315.9	4406.5	4549.5	4690.5	4815.4	4893.9	5000.6	5087.2	5135.6
17.5°	4424.6	4428.7	4547.5	4732.8	4918.1	5059.0	5133.6	5187.9	5254.4	5296.7
20°	4601.9	4609.9	4742.9	4962.4	5173.8	5335.0	5395.4	5375.2	5393.4	5425.6
22.5°	4839.5	4843.5	4992.6	5230.2	5451.8	5629.0	5669.3	5586.7	5536.3	5558.5
25°	5115.4	5141.6	5290.6	5534.3	5761.9	5931.1	5949.2	5824.3	5699.5	5705.5
27.5°	5451.8	5475.9	5627.0	5868.6	6100.3	6247.3	6245.3	6078.1	5894.8	5848.5
30°	5816.3	5842.5	5997.5	6247.3	6462.8	6591.7	6563.5	6364.1	6102.3	6015.7
32.5°	6249.3	6265.4	6422.5	6672.2	6871.6	6974.3	6915.9	6670.2	6343.9	6245.3
35°	6772.9	6797.1	6913.9	7149.5	7324.7	7409.3	7310.6	7020.6	6654.1	6543.3
37.5°	7371.1	7354.9	7487.9	7697.3	7842.3	7894.7	7759.7	7415.4	7008.5	6877.6
40°	7995.4	7987.3	8132.3	8333.7	8412.3	8444.5	8245.1	7868.5	7417.4	7276.4
42.5°	8561.3	8555.3	8750.6	8974.2	9068.8	9032.6	8780.8	8349.8	7890.7	7729.5
45°	9014.4	9006.4	9246.0	9560.2	9745.5	9685.1	9346.7	8881.5	8370.0	8202.8
47.5°	9362.9	9366.9	9624.7	10013.4	10337.6	10359.8	9924.7	9423.3	8897.6	8708.3
50°	9614.6	9626.7	9902.6	10333.6	10776.6	10972.0	10514.8	9979.1	9443.4	9229.9
52.5°	9677.0	9699.2	10031.5	10537.0	11058.6	11431.2	11115.0	10512.8	9961.0	9757.6
55°	9344.7	9389.0	9809.9	10520.9	11231.8	11733.3	11642.6	11054.6	10482.6	10273.2
57.5°	8581.4	8643.9	9135.3	10063.7	11193.5	11940.7	12051.5	11574.2	11004.2	10802.8
60°	7512.0	7586.5	8057.8	9070.8	10653.8	12017.2	12339.5	12079.7	11483.5	11288.2
62.5°	5898.9	5995.5	6559.4	7747.7	9513.9	11660.8	12585.2	12536.8	11914.5	11670.8
65°	3784.2	3886.9	4481.0	5884.8	7993.4	10569.2	12661.7	12981.9	12369.7	12029.3
67.5°	2281.8	2328.1	2622.2	3566.7	5842.5	8923.8	12013.2	13475.3	12901.4	12478.4
70°	1460.1	1486.3	1661.5	2094.5	3302.9	6511.1	10406.1	13568.0	13545.8	12939.6
72.5°	990.9	998.9	1045.2	1240.6	1868.9	3699.6	7675.2	12283.1	13948.6	13533.7
75°	725.0	769.3	843.8	878.1	1061.4	1848.8	4398.5	8629.8	11755.4	11936.7
77.5°	539.7	541.8	644.5	684.7	757.2	984.8	1860.9	4817.4	7298.6	7663.1
80°	457.2	433.0	431.0	551.8	569.9	614.3	831.8	1663.5	2614.1	1585.0
82.5°	380.6	354.5	320.2	431.0	388.7	376.6	360.5	676.7	831.8	408.8
85°	265.8	253.8	241.7	282.0	221.5	189.3	173.2	316.2	350.4	173.2
87.5°	114.8	118.8	120.8	124.9	92.6	66.5	66.5	88.6	88.6	68.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4225.3
4251.4
4354.2
4529.4
4734.8
4938.2
5153.7
5316.8
5449.7
5574.6
5715.6
5862.6
6025.7
6269.4
6559.4
6901.8
7322.7
7769.8
8241.1
8764.7
9294.4
9809.9
10331.6
10849.1
11330.5
11699.0
12071.6
12510.7
12935.6
13469.3
11497.6
6835.3
1198.3
348.4
153.1
50.3
0.0

OF REPORT)