

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: P953633

Luminaire Tested: **GALN-SB7A-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953633
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-SB7A-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31422 lumens
Efficiency: N/A
Efficacy: 157.8 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

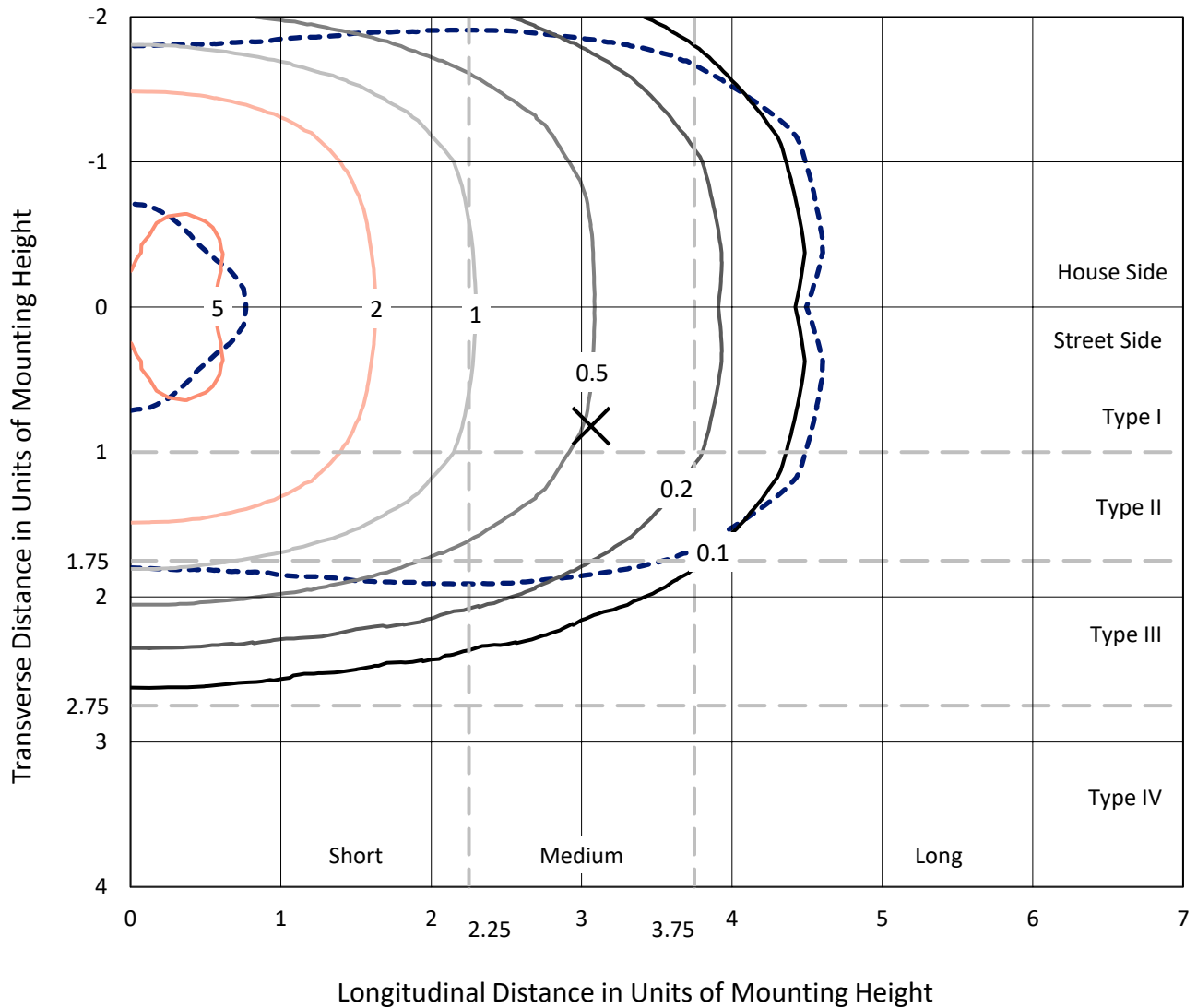
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

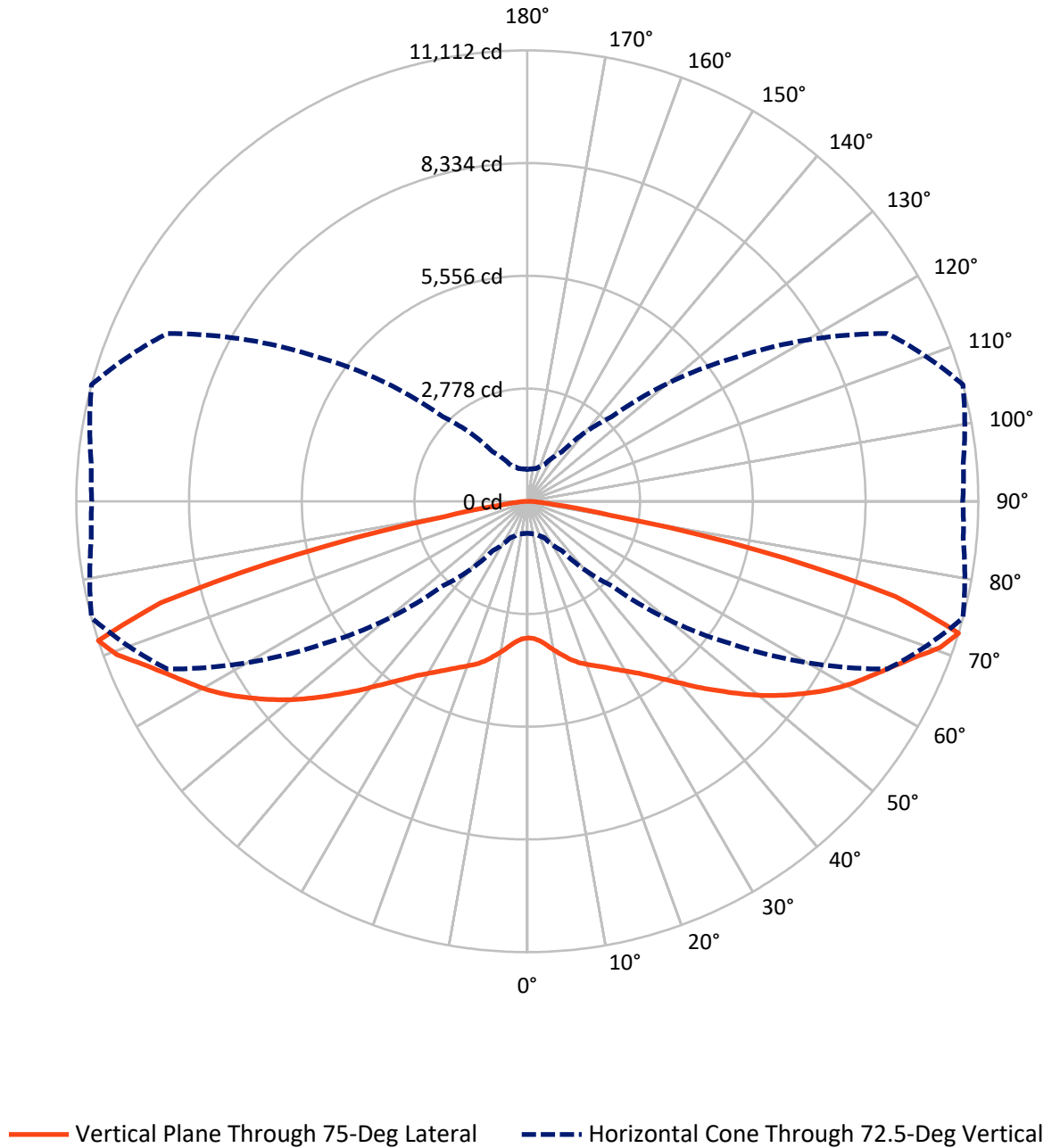
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	15711.0	0.0	15711.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15711.0	0.0	15711.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31422.0	0.0	31422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	1.0
10°-20°	1087.5	3.5
20°-30°	2101.3	6.7
30°-40°	3548.2	11.3
40°-50°	5627.0	17.9
50°-60°	7533.9	24.0
60°-70°	7169.9	22.8
70°-80°	3741.4	11.9
80°-90°	283.2	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°	31422.0	100.0
0°-180°	31422.0	100.0

Coefficient of Utilization



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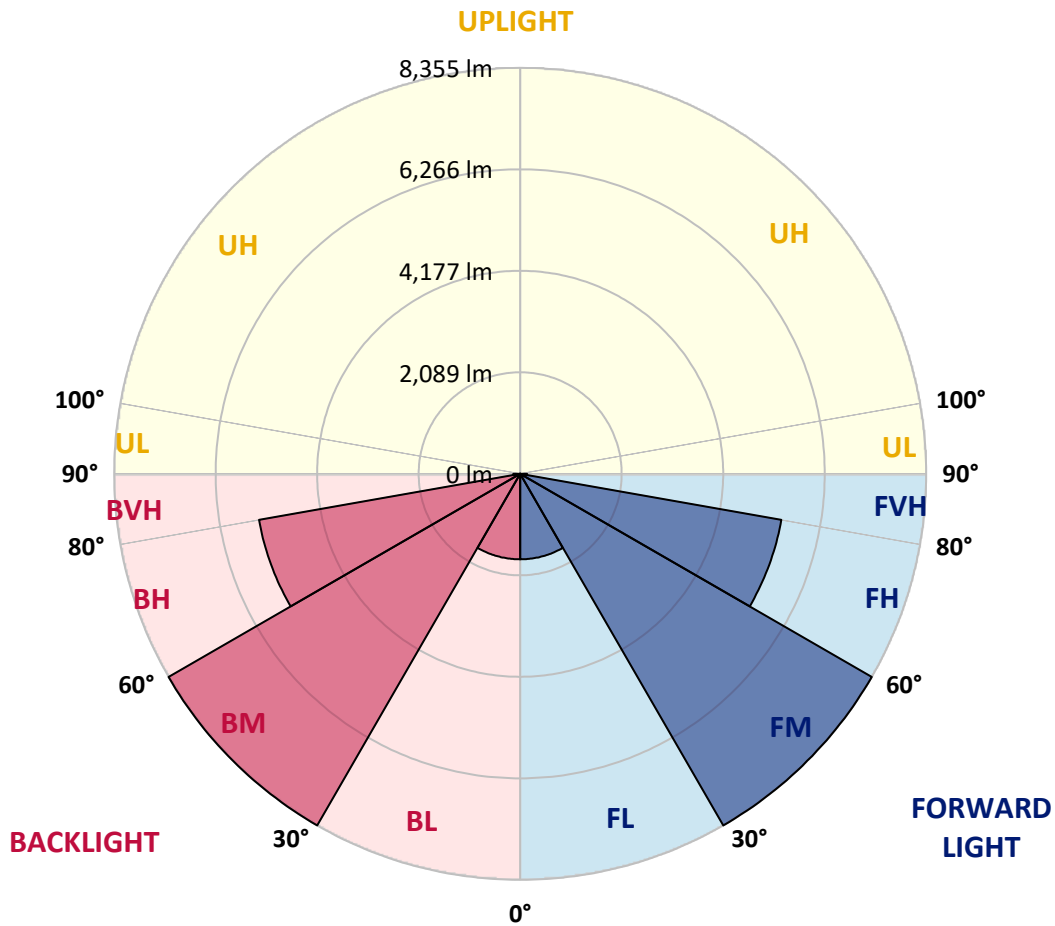
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1759.2	5.6			
FM (30°-60°)	8354.5	26.6			
FH (60°-80°)	5455.6	17.4			G3/7500
FVH (80°-90°)	141.6	0.5			G2/225
BL (0°-30°)	1759.2	5.6	B3/2500		
BM (30°-60°)	8354.5	26.6	B4/8500		
BH (60°-80°)	5455.6	17.4	B5		G5
BVH (80°-90°)	141.6	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°	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9
2.5°	3365.9	3362.7	3365.9	3369.1	3367.5	3367.5	3375.5	3380.3	3389.9	3388.3
5°	3343.4	3341.8	3354.6	3369.1	3380.3	3399.5	3423.6	3441.3	3463.7	3468.5
7.5°	3332.2	3327.4	3349.8	3375.5	3410.8	3458.9	3505.4	3553.6	3592.1	3604.9
10°	3340.2	3341.8	3372.3	3420.4	3476.6	3543.9	3609.7	3691.5	3746.1	3758.9
12.5°	3377.1	3373.9	3425.2	3502.2	3579.2	3664.3	3741.3	3831.1	3890.5	3921.0
15°	3444.5	3438.1	3510.2	3624.2	3736.5	3835.9	3898.5	3983.5	4052.5	4091.0
17.5°	3524.7	3527.9	3622.5	3770.1	3917.7	4030.0	4089.4	4132.7	4185.7	4219.4
20°	3665.9	3672.3	3778.2	3953.0	4121.5	4249.8	4298.0	4281.9	4296.4	4322.0
22.5°	3855.2	3858.4	3977.1	4166.4	4342.9	4484.1	4516.2	4450.4	4410.3	4427.9
25°	4075.0	4095.8	4214.5	4408.7	4590.0	4724.7	4739.2	4639.7	4540.2	4545.0
27.5°	4342.9	4362.1	4482.5	4675.0	4859.5	4976.6	4975.0	4841.8	4695.8	4658.9
30°	4633.3	4654.1	4777.7	4976.6	5148.3	5250.9	5228.5	5069.6	4861.1	4792.1
32.5°	4978.2	4991.0	5116.2	5315.1	5473.9	5555.8	5509.2	5313.5	5053.6	4975.0
35°	5395.3	5414.6	5507.6	5695.3	5834.9	5902.3	5823.7	5592.7	5300.7	5212.4
37.5°	5871.8	5859.0	5964.9	6131.7	6247.2	6288.9	6181.4	5907.1	5583.0	5478.7
40°	6369.1	6362.7	6478.2	6638.7	6701.2	6726.9	6568.1	6268.1	5908.7	5796.4
42.5°	6820.0	6815.1	6970.8	7148.8	7224.2	7195.4	6994.8	6651.5	6285.7	6157.4
45°	7180.9	7174.5	7365.4	7615.7	7763.3	7715.2	7445.6	7075.0	6667.5	6534.4
47.5°	7458.5	7461.7	7667.0	7976.7	8235.0	8252.6	7906.1	7506.6	7087.9	6937.1
50°	7659.0	7668.6	7888.4	8231.8	8584.7	8740.3	8376.1	7949.4	7522.6	7352.6
52.5°	7708.7	7726.4	7991.1	8393.8	8809.3	9106.1	8854.2	8374.5	7935.0	7772.9
55°	7444.0	7479.3	7814.6	8381.0	8947.3	9346.8	9274.6	8806.1	8350.5	8183.6
57.5°	6836.0	6885.7	7277.2	8016.8	8916.8	9512.0	9600.2	9220.0	8766.0	8605.6
60°	5984.1	6043.5	6418.9	7225.8	8486.8	9573.0	9829.7	9622.7	9147.8	8992.2
62.5°	4699.0	4776.1	5225.3	6171.8	7578.8	9289.0	10025.4	9986.9	9491.1	9297.0
65°	3014.5	3096.3	3569.6	4687.8	6367.5	8419.5	10086.3	10341.4	9853.7	9582.6
67.5°	1817.7	1854.6	2088.8	2841.2	4654.1	7108.7	9569.8	10734.5	10277.3	9940.4
70°	1163.1	1184.0	1323.6	1668.5	2631.1	5186.8	8289.5	10808.3	10790.6	10307.7
72.5°	789.3	795.7	832.6	988.3	1488.8	2947.1	6114.1	9784.7	11111.5	10781.0
75°	577.6	612.8	672.2	699.5	845.5	1472.8	3503.8	6874.5	9364.4	9508.8
77.5°	430.0	431.6	513.4	545.5	603.2	784.5	1482.4	3837.5	5814.0	6104.4
80°	364.2	344.9	343.3	439.6	454.0	489.3	662.6	1325.2	2082.4	1262.6
82.5°	303.2	282.4	255.1	343.3	309.6	300.0	287.2	539.1	662.6	325.7
85°	211.8	202.1	192.5	224.6	176.5	150.8	138.0	251.9	279.2	138.0
87.5°	91.4	94.7	96.3	99.5	73.8	52.9	52.9	70.6	70.6	54.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3365.9
3386.7
3468.5
3608.1
3771.8
3933.8
4105.4
4235.4
4341.3
4440.8
4553.1
4670.2
4800.1
4994.2
5225.3
5498.0
5833.3
6189.5
6564.9
6982.0
7403.9
7814.6
8230.2
8642.5
9025.9
9319.5
9616.3
9966.0
10304.5
10729.7
9159.1
5445.1
954.6
277.5
121.9
40.1
0.0

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