

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: P956132

Luminaire Tested: **GALN-SB8D-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956132
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-SB8D-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81049 lumens
Efficiency: N/A
Efficacy: 138.6 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

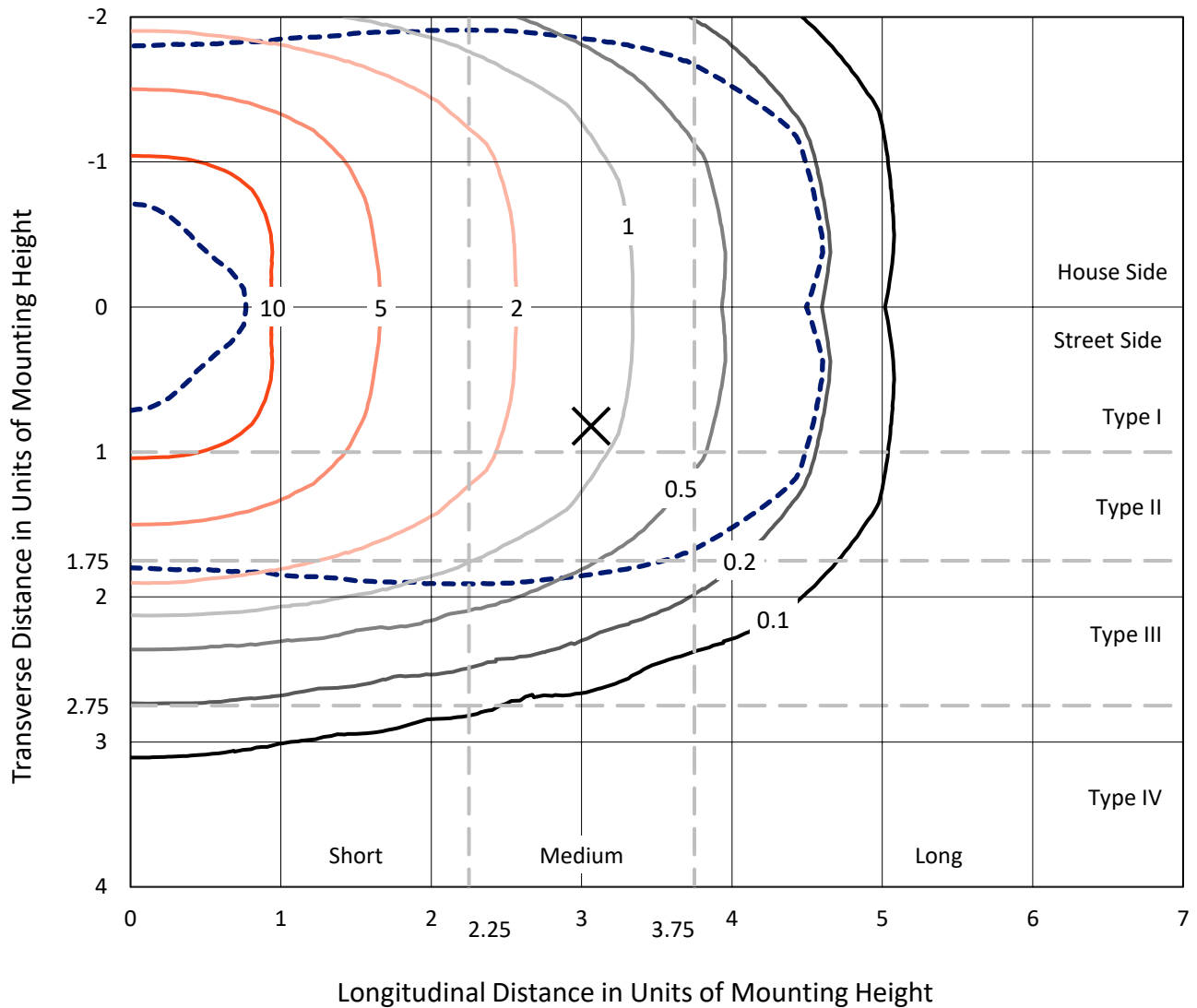
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

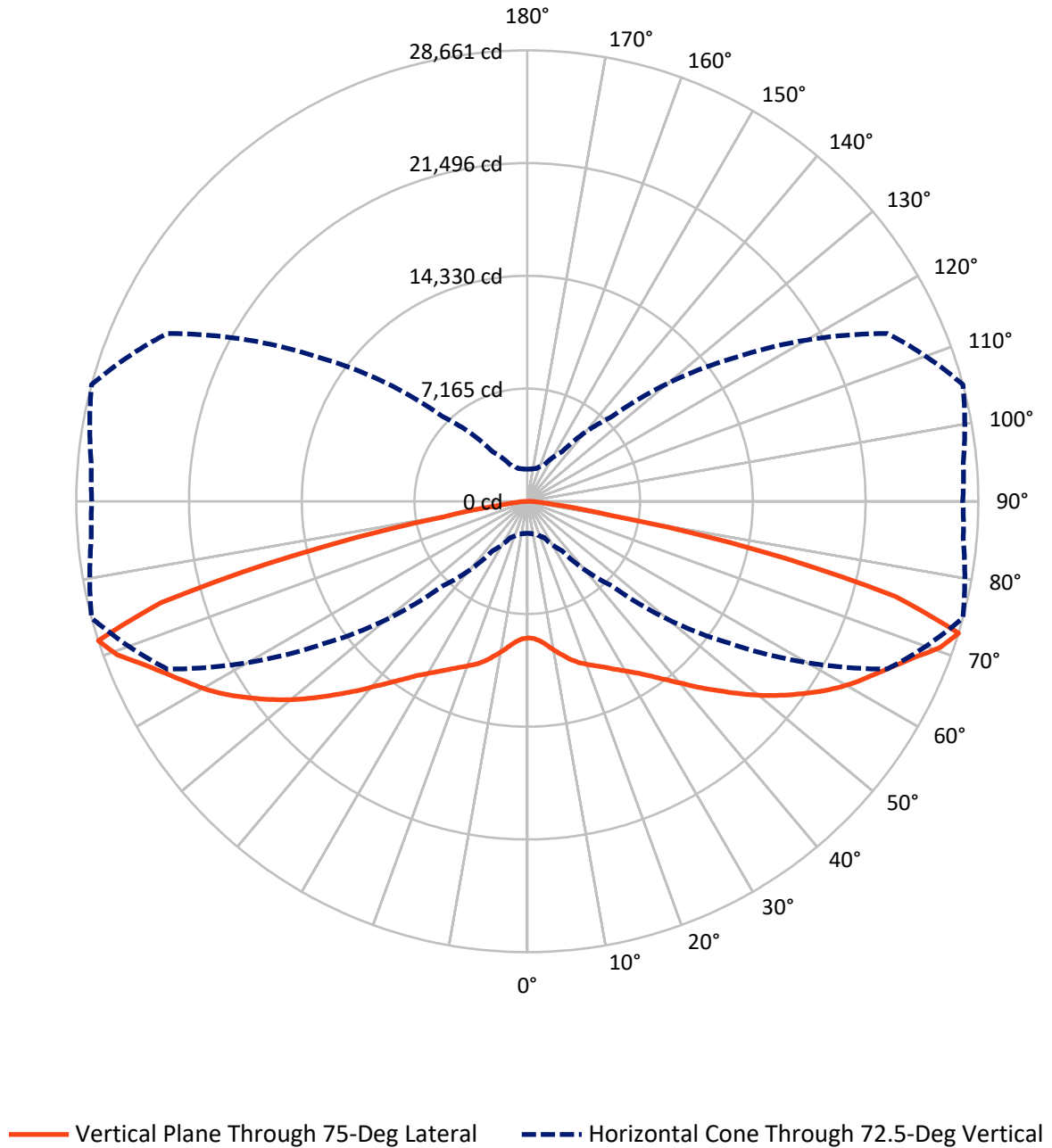
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	40524.5	0.0	40524.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	40524.5	0.0	40524.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	81049.0	0.0	81049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.5	1.0
10°-20°	2805.0	3.5
20°-30°	5420.0	6.7
30°-40°	9152.1	11.3
40°-50°	14514.1	17.9
50°-60°	19432.7	24.0
60°-70°	18493.7	22.8
70°-80°	9650.3	11.9
80°-90°	730.5	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°	81049.0	100.0
0°-180°	81049.0	100.0

Coefficient of Utilization



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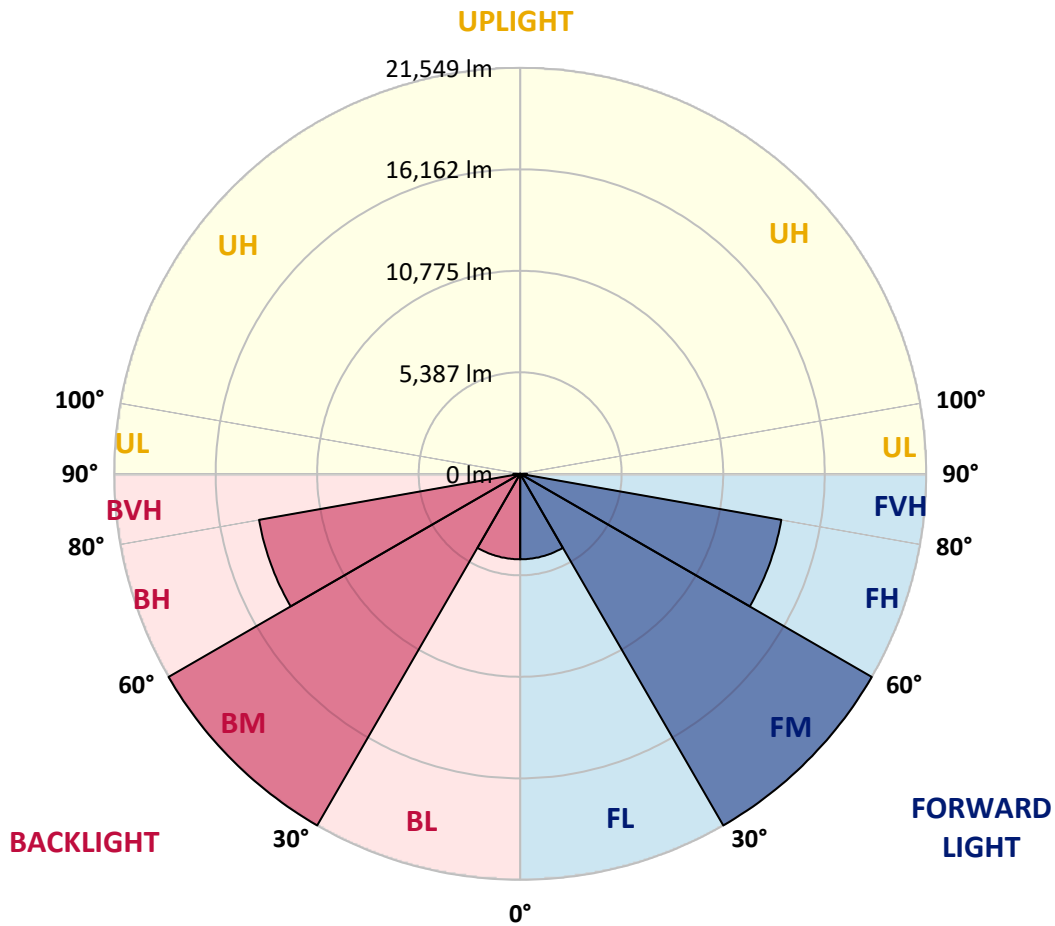
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4537.7	5.6			
FM (30°-60°)	21549.5	26.6			
FH (60°-80°)	14072.0	17.4			G5
FVH (80°-90°)	365.2	0.5			G3/500
BL (0°-30°)	4537.7	5.6	B4/5000		
BM (30°-60°)	21549.5	26.6	B5		
BH (60°-80°)	14072.0	17.4	B5		G5
BVH (80°-90°)	365.2	0.5			G3/500
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°	8681.8	8681.8	8681.8	8681.8	8681.8	8681.8	8681.8	8681.8	8681.8	8681.8
2.5°	8681.8	8673.5	8681.8	8690.1	8685.9	8685.9	8706.6	8719.0	8743.9	8739.7
5°	8623.9	8619.7	8652.8	8690.1	8719.0	8768.7	8830.8	8876.3	8934.2	8946.6
7.5°	8594.9	8582.5	8640.4	8706.6	8797.7	8921.8	9041.8	9166.0	9265.3	9298.4
10°	8615.6	8619.7	8698.4	8822.5	8967.3	9141.1	9310.8	9521.8	9662.5	9695.6
12.5°	8710.8	8702.5	8834.9	9033.5	9232.2	9451.5	9650.1	9881.9	10035.0	10113.6
15°	8884.6	8868.0	9054.2	9348.0	9637.7	9894.3	10055.7	10275.0	10452.9	10552.2
17.5°	9091.5	9099.8	9343.9	9724.6	10105.3	10395.0	10548.1	10659.8	10796.4	10883.3
20°	9455.6	9472.2	9745.3	10196.4	10630.9	10961.9	11086.1	11044.7	11081.9	11148.1
22.5°	9943.9	9952.2	10258.4	10746.7	11201.9	11566.1	11648.8	11479.2	11375.7	11421.2
25°	10510.9	10564.6	10870.9	11371.6	11839.2	12186.8	12224.0	11967.5	11710.9	11723.3
27.5°	11201.9	11251.6	11561.9	12058.5	12534.4	12836.5	12832.3	12488.9	12112.3	12017.1
30°	11950.9	12004.7	12323.4	12836.5	13279.3	13544.1	13486.2	13076.5	12538.5	12360.6
32.5°	12840.6	12873.7	13196.5	13709.6	14119.3	14330.3	14210.3	13705.5	13035.1	12832.3
35°	13916.5	13966.2	14206.2	14690.4	15050.4	15224.2	15021.4	14425.5	13672.4	13444.8
37.5°	15145.6	15112.5	15385.6	15815.9	16113.9	16221.5	15944.2	15236.6	14400.7	14131.7
40°	16428.4	16411.8	16709.8	17123.6	17285.0	17351.2	16941.5	16167.7	15240.7	14951.1
42.5°	17591.2	17578.8	17980.2	18439.5	18634.0	18559.5	18042.3	17156.7	16213.2	15882.1
45°	18522.3	18505.7	18998.2	19643.7	20024.4	19900.3	19205.1	18249.2	17198.1	16854.6
47.5°	19238.2	19246.4	19776.1	20574.8	21241.0	21286.5	20392.7	19362.3	18282.3	17893.3
50°	19755.4	19780.3	20347.2	21232.8	22143.1	22544.5	21605.2	20504.4	19403.7	18965.1
52.5°	19883.7	19929.2	20612.0	21650.7	22722.5	23488.0	22838.3	21601.0	20467.2	20049.2
55°	19200.9	19292.0	20156.8	21617.6	23078.4	24108.8	23922.5	22714.2	21539.0	21108.6
57.5°	17632.6	17760.9	18770.6	20678.2	22999.7	24535.0	24762.6	23781.8	22610.7	22196.9
60°	15435.2	15588.3	16556.7	18638.1	21890.7	24692.2	25354.3	24820.5	23595.6	23194.2
62.5°	12120.6	12319.2	13477.9	15919.4	19548.5	23959.8	25859.2	25759.9	24481.2	23980.5
65°	7775.5	7986.6	9207.3	12091.6	16424.2	21716.9	26016.4	26674.4	25416.4	24717.1
67.5°	4688.5	4783.7	5387.8	7328.6	12004.7	18336.1	24684.0	27688.2	26508.9	25639.9
70°	3000.1	3053.9	3414.0	4303.7	6786.5	13378.6	21381.7	27878.6	27833.1	26587.5
72.5°	2036.0	2052.5	2147.7	2549.1	3840.2	7601.7	15770.4	25238.5	28660.7	27808.2
75°	1489.7	1580.8	1733.9	1804.2	2180.8	3798.8	9037.7	17731.9	24154.3	24526.7
77.5°	1109.0	1113.2	1324.2	1407.0	1555.9	2023.5	3823.6	9898.4	14996.6	15745.6
80°	939.4	889.7	885.6	1133.8	1171.1	1262.1	1709.0	3418.1	5371.3	3256.7
82.5°	782.1	728.3	658.0	885.6	798.7	773.8	740.7	1390.4	1709.0	840.0
85°	546.2	521.4	496.6	579.3	455.2	389.0	355.9	649.7	720.0	355.9
87.5°	235.9	244.1	248.3	256.6	190.4	136.6	136.6	182.1	182.1	140.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8681.8
8735.6
8946.6
9306.7
9728.7
10146.7
10589.5
10924.7
11197.8
11454.3
11744.0
12046.1
12381.3
12882.0
13477.9
14181.4
15046.2
15964.9
16933.2
18009.1
19097.5
20156.8
21228.6
22292.1
23281.1
24038.4
24804.0
25706.1
26579.2
27675.8
23624.6
14044.8
2462.2
715.9
314.5
103.5
0.0

OF REPORT)