

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: P951806

Luminaire Tested: **GALN-SB5D-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951806
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-SB5D-835-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49097 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

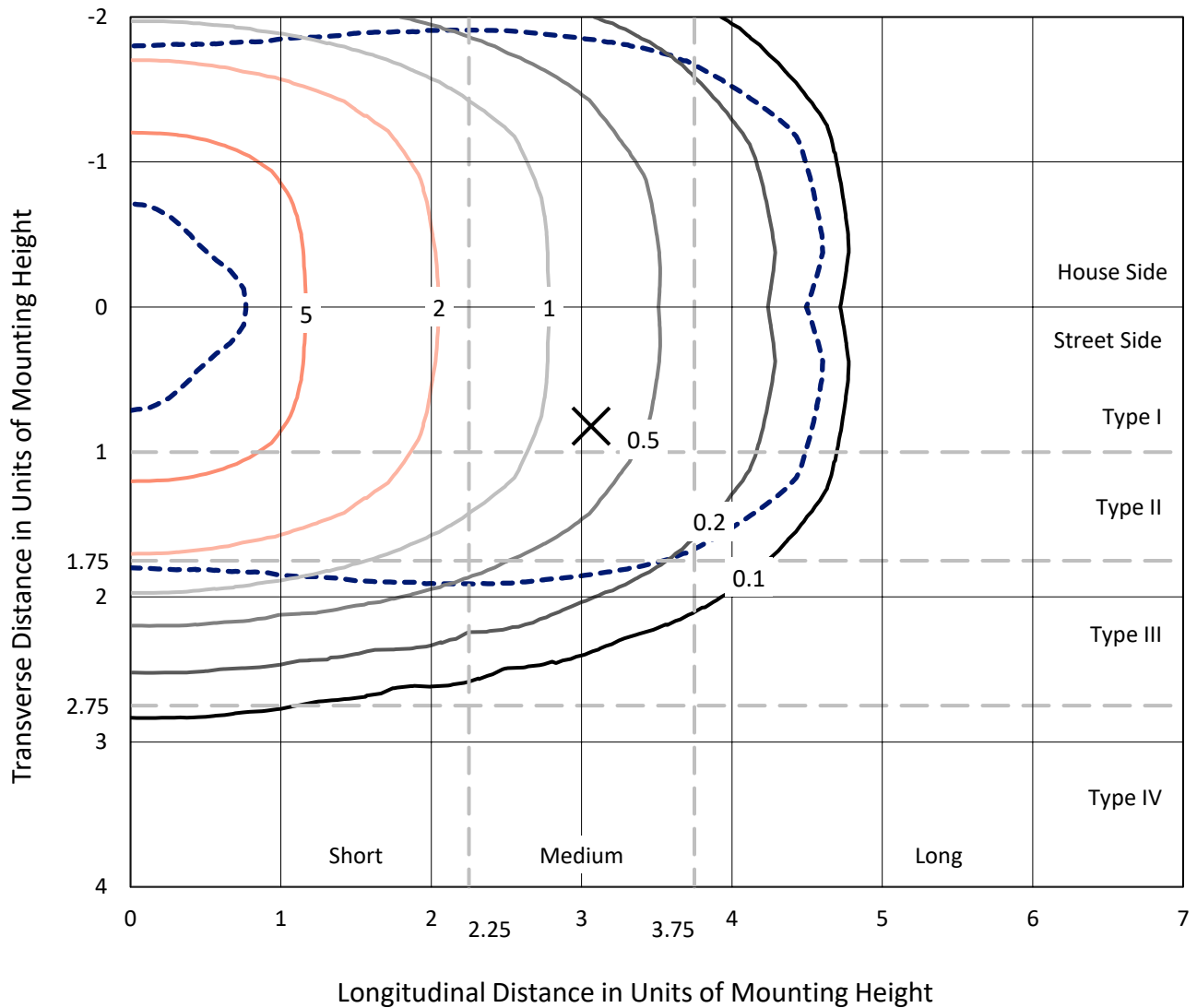
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951806
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Iso-Footcandle Lines of Horizontal Illumination

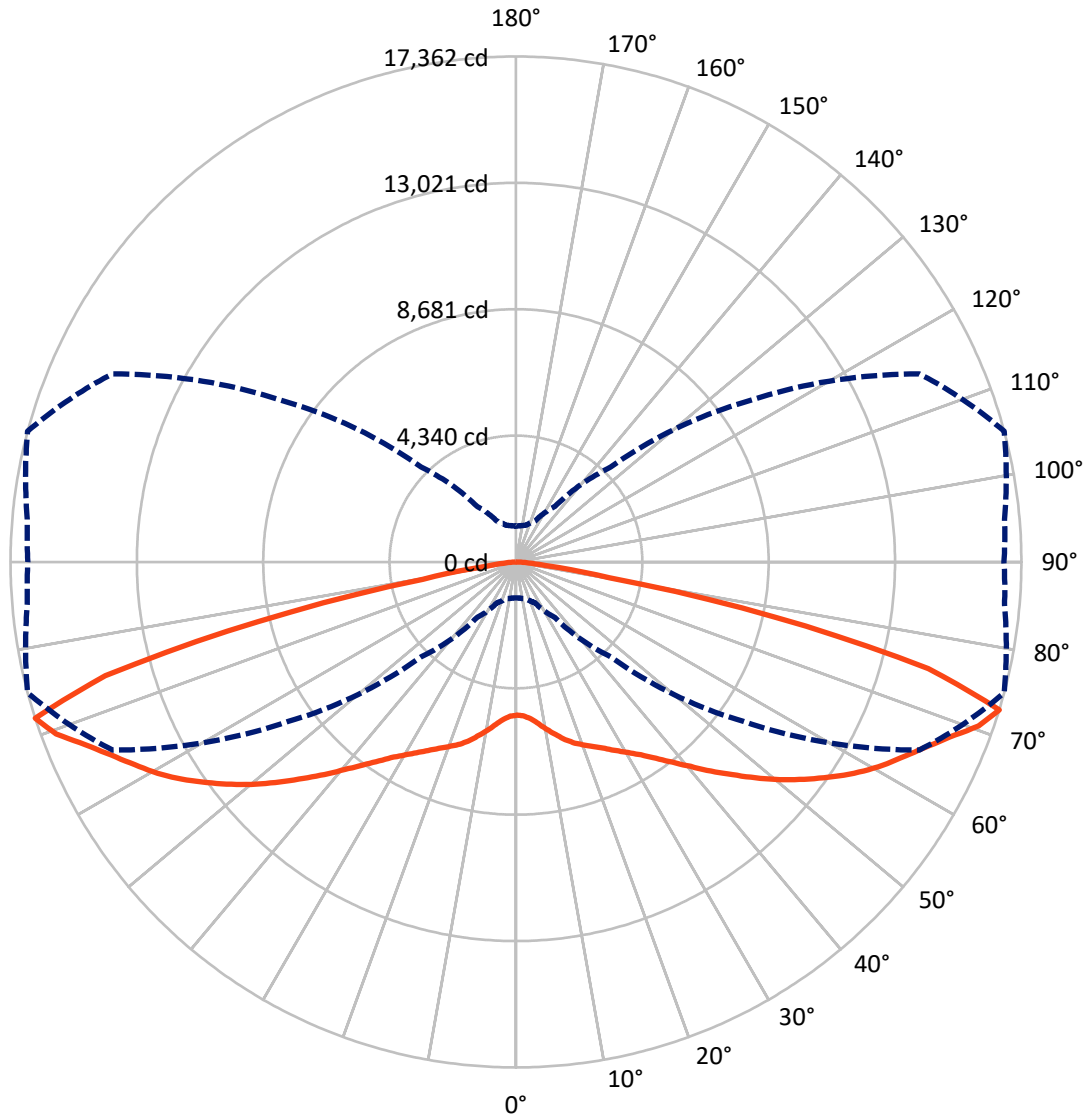
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SB5D-835-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24548.5	0.0	24548.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24548.5	0.0	24548.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49097.0	0.0	49097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.2	1.0
10°-20°	1699.2	3.5
20°-30°	3283.3	6.7
30°-40°	5544.0	11.3
40°-50°	8792.2	17.9
50°-60°	11771.8	24.0
60°-70°	11202.9	22.8
70°-80°	5845.9	11.9
80°-90°	442.5	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°	49097.0	100.0
0°-180°	49097.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951806

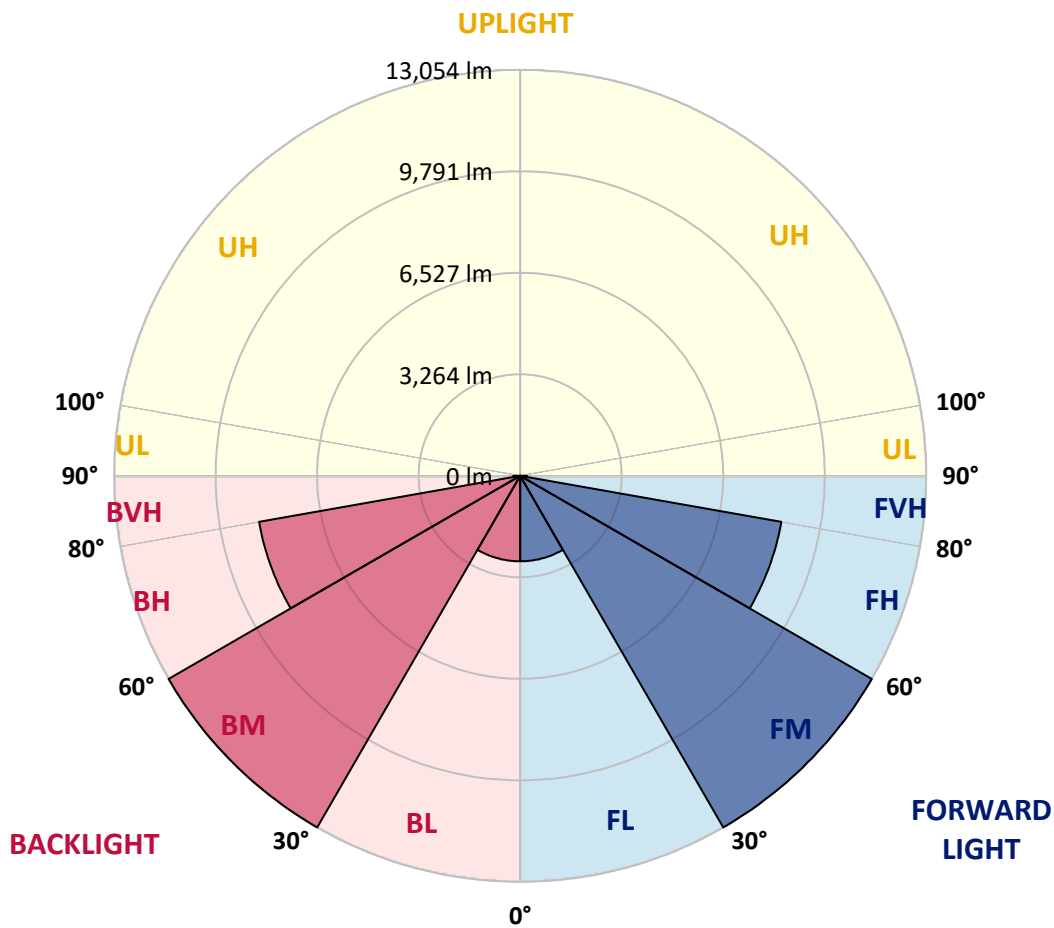
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2748.8	5.6			
FM (30°-60°)	13054.0	26.6			
FH (60°-80°)	8524.4	17.4			G4/12000
FVH (80°-90°)	221.3	0.5			G2/225
BL (0°-30°)	2748.8	5.6	B4/5000		
BM (30°-60°)	13054.0	26.6	B5		
BH (60°-80°)	8524.4	17.4	B5		G5
BVH (80°-90°)	221.3	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°	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2
2.5°	5259.2	5254.2	5259.2	5264.2	5261.7	5261.7	5274.2	5281.7	5296.8	5294.3
5°	5224.1	5221.6	5241.6	5264.2	5281.7	5311.8	5349.4	5377.0	5412.1	5419.6
7.5°	5206.5	5199.0	5234.1	5274.2	5329.4	5404.6	5477.3	5552.5	5612.6	5632.7
10°	5219.1	5221.6	5269.2	5344.4	5432.1	5537.4	5640.2	5768.0	5853.3	5873.3
12.5°	5276.7	5271.7	5351.9	5472.2	5592.6	5725.4	5845.7	5986.1	6078.9	6126.5
15°	5382.0	5372.0	5484.8	5662.8	5838.2	5993.6	6091.4	6224.3	6332.1	6392.2
17.5°	5507.3	5512.3	5660.2	5890.9	6121.5	6297.0	6389.7	6457.4	6540.1	6592.8
20°	5727.9	5738.0	5903.4	6176.6	6439.8	6640.4	6715.6	6690.5	6713.1	6753.2
22.5°	6023.7	6028.7	6214.2	6510.0	6785.8	7006.4	7056.5	6953.7	6891.1	6918.6
25°	6367.2	6399.7	6585.2	6888.6	7171.8	7382.4	7404.9	7249.5	7094.1	7101.6
27.5°	6785.8	6815.9	7003.9	7304.7	7593.0	7775.9	7773.4	7565.4	7337.3	7279.6
30°	7239.5	7272.1	7465.1	7775.9	8044.2	8204.6	8169.5	7921.3	7595.5	7487.7
32.5°	7778.5	7798.5	7994.0	8304.9	8553.0	8680.9	8608.2	8302.4	7896.3	7773.4
35°	8430.2	8460.3	8605.7	8899.0	9117.1	9222.3	9099.5	8738.5	8282.3	8144.4
37.5°	9174.7	9154.7	9320.1	9580.8	9761.3	9826.5	9658.5	9229.9	8723.5	8560.6
40°	9951.8	9941.8	10122.3	10372.9	10470.7	10510.8	10262.6	9793.9	9232.4	9056.9
42.5°	10656.2	10648.7	10891.8	11170.1	11287.9	11242.8	10929.4	10393.0	9821.5	9620.9
45°	11220.2	11210.2	11508.5	11899.6	12130.2	12055.0	11633.8	11054.8	10418.1	10210.0
47.5°	11653.9	11658.9	11979.8	12463.6	12867.2	12894.7	12353.3	11729.1	11074.8	10839.2
50°	11967.2	11982.3	12325.7	12862.1	13413.6	13656.8	13087.8	12421.0	11754.2	11488.4
52.5°	12044.9	12072.5	12486.1	13115.3	13764.6	14228.3	13834.8	13085.3	12398.4	12145.2
55°	11631.3	11686.5	12210.4	13095.3	13980.2	14604.3	14491.5	13759.6	13047.6	12786.9
57.5°	10681.3	10759.0	11370.6	12526.2	13932.5	14862.5	15000.4	14406.3	13696.9	13446.2
60°	9350.2	9442.9	10029.5	11290.4	13260.7	14957.8	15358.9	15035.5	14293.5	14050.4
62.5°	7342.3	7462.6	8164.5	9643.5	11841.9	14514.1	15664.7	15604.5	14830.0	14526.6
65°	4710.2	4838.0	5577.5	7324.7	9949.3	13155.4	15760.0	16158.5	15396.5	14972.8
67.5°	2840.2	2897.8	3263.8	4439.5	7272.1	11107.4	14952.8	16772.7	16058.3	15531.8
70°	1817.4	1850.0	2068.1	2607.0	4111.1	8104.3	12952.4	16888.0	16860.4	16105.9
72.5°	1233.3	1243.3	1301.0	1544.2	2326.3	4604.9	9553.2	15288.7	17361.8	16845.4
75°	902.4	957.6	1050.3	1092.9	1321.1	2301.2	5474.7	10741.4	14631.9	14857.5
77.5°	671.8	674.3	802.2	852.3	942.5	1225.8	2316.2	5996.2	9084.5	9538.2
80°	569.0	539.0	536.4	686.9	709.4	764.6	1035.3	2070.6	3253.8	1972.8
82.5°	473.8	441.2	398.6	536.4	483.8	468.8	448.7	842.3	1035.3	508.9
85°	330.9	315.9	300.8	350.9	275.7	235.6	215.6	393.6	436.2	215.6
87.5°	142.9	147.9	150.4	155.4	115.3	82.7	82.7	110.3	110.3	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5259.2
5291.8
5419.6
5637.7
5893.4
6146.6
6414.8
6617.8
6783.3
6938.7
7114.2
7297.2
7500.2
7803.5
8164.5
8590.6
9114.6
9671.1
10257.6
10909.4
11568.7
12210.4
12859.6
13503.9
14103.0
14561.7
15025.5
15571.9
16100.9
16765.2
14311.1
8507.9
1491.5
433.7
190.5
62.7
0.0

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