

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: P944740

Luminaire Tested: **GALN-SB9D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944740
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-SB9D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84242 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

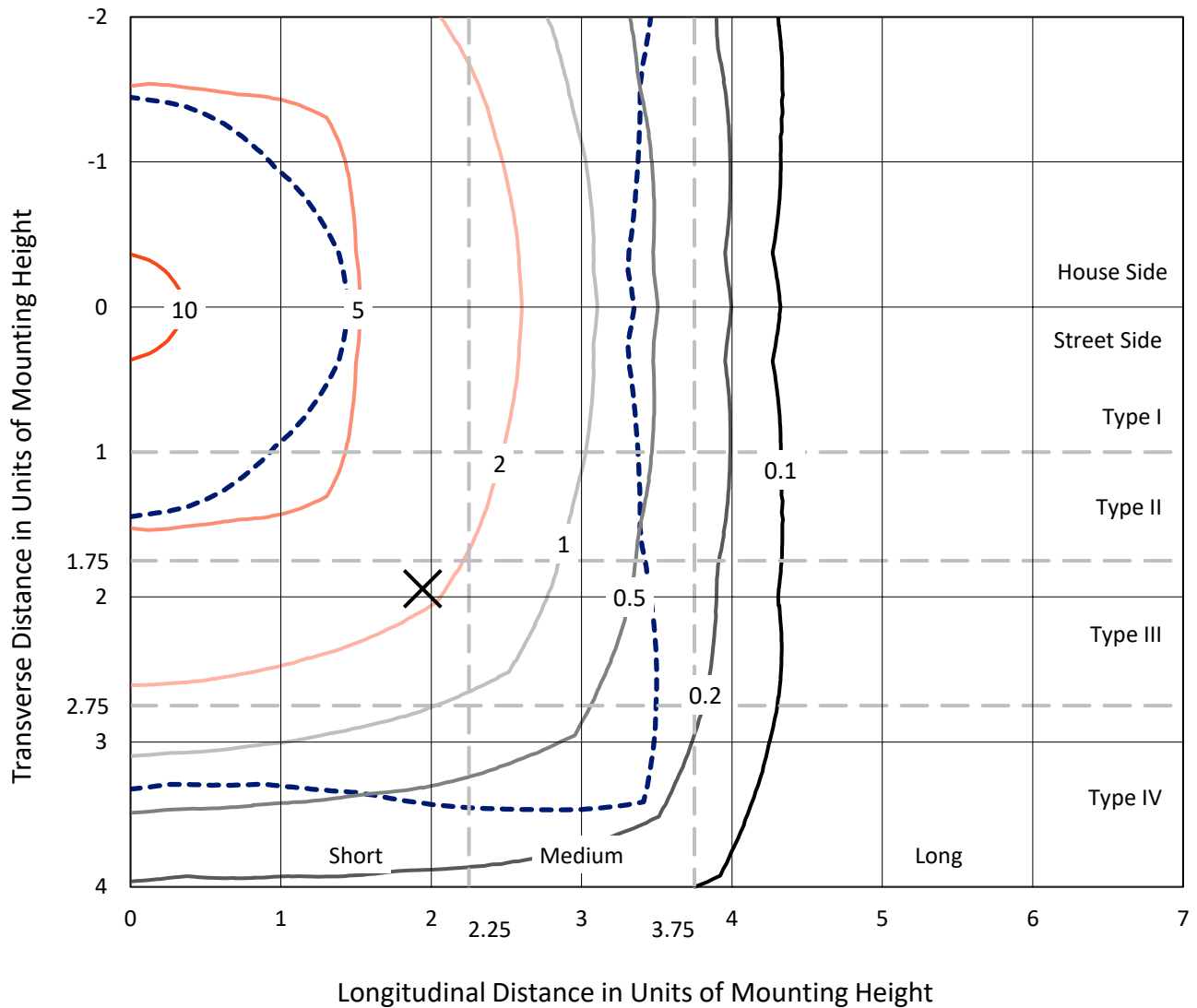
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

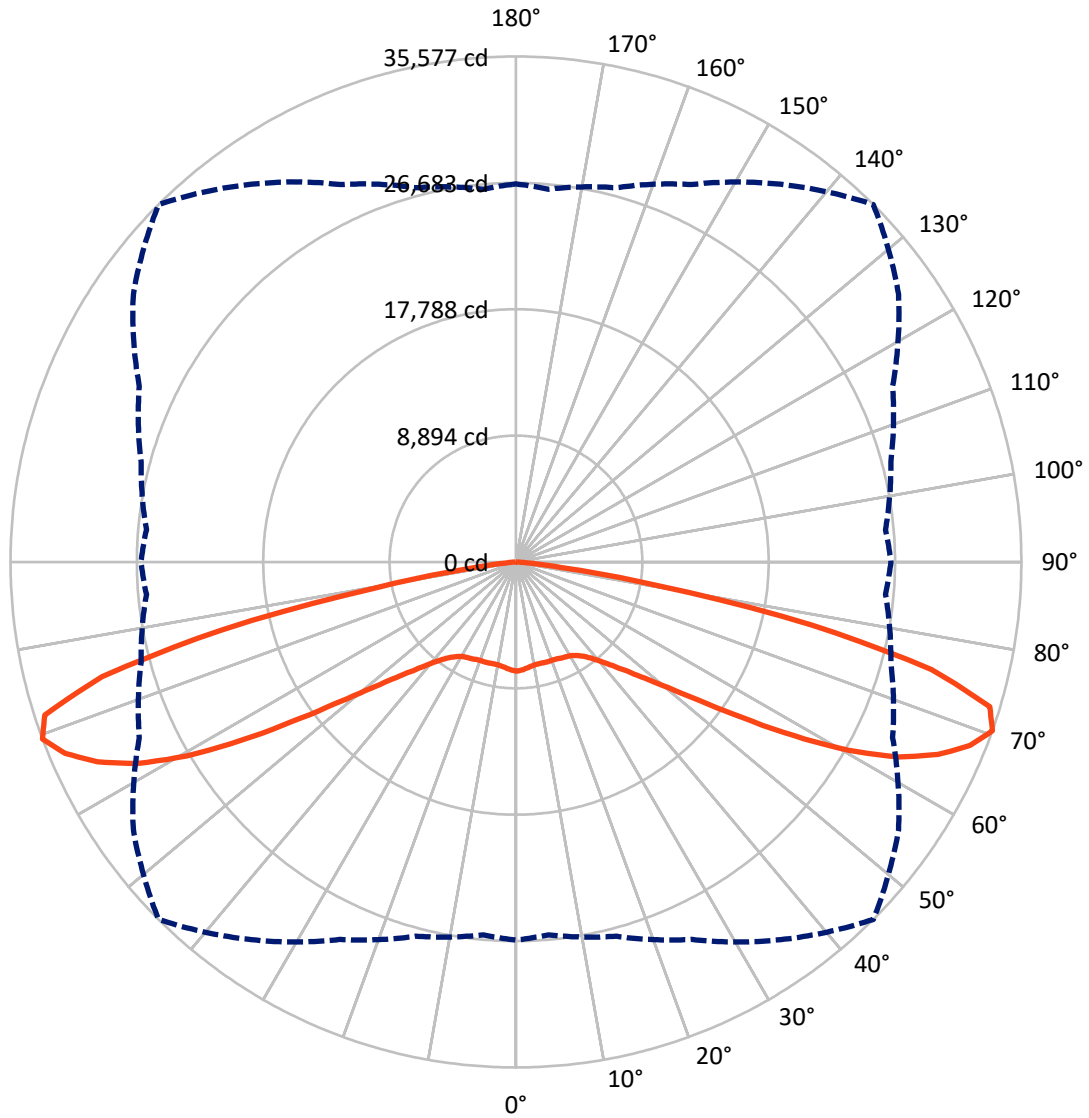
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	42121.0	0.0	42121.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	42121.0	0.0	42121.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	84242.0	0.0	84242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.8	0.8
10°-20°	2099.0	2.5
20°-30°	3493.0	4.1
30°-40°	5282.4	6.3
40°-50°	8778.2	10.4
50°-60°	16564.1	19.7
60°-70°	27969.1	33.2
70°-80°	18378.6	21.8
80°-90°	962.8	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°	84242.0	100.0
0°-180°	84242.0	100.0

Coefficient of Utilization



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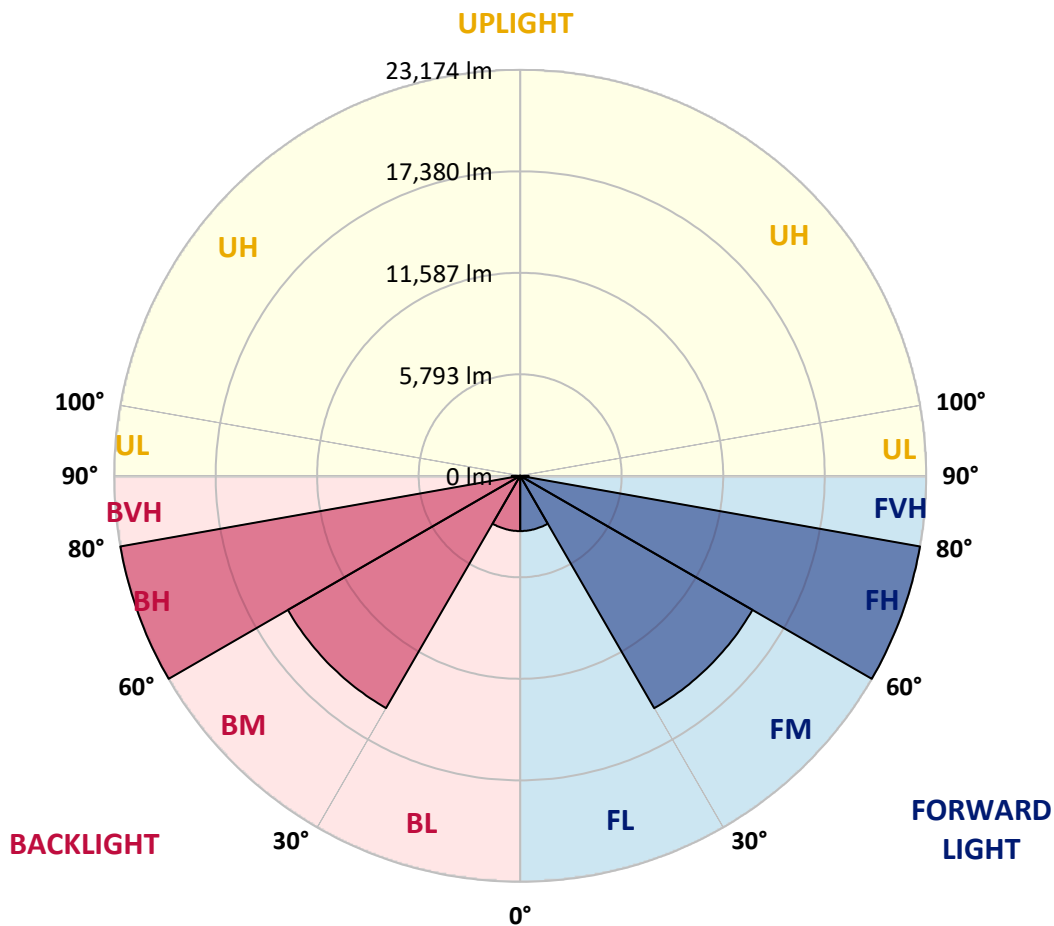
CATALOG NUMBER: GALN-SB9D-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3153.4	3.7			
FM (30°-60°)	15312.3	18.2			
FH (60°-80°)	23173.8	27.5			G5
FVH (80°-90°)	481.4	0.6			G3/500
BL (0°-30°)	3153.4	3.7	B4/5000		
BM (30°-60°)	15312.3	18.2	B5		
BH (60°-80°)	23173.8	27.5	B5		G5
BVH (80°-90°)	481.4	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6
2.5°	7636.4	7658.3	7649.5	7632.0	7632.0	7618.9	7632.0	7640.8	7653.9	7662.7
5°	7535.7	7553.2	7548.8	7535.7	7540.1	7526.9	7535.7	7548.8	7557.6	7562.0
7.5°	7448.1	7465.6	7456.9	7435.0	7435.0	7421.8	7426.2	7439.4	7452.5	7456.9
10°	7426.2	7443.7	7417.5	7382.4	7369.3	7351.8	7356.2	7369.3	7395.6	7408.7
12.5°	7435.0	7448.1	7421.8	7369.3	7356.2	7338.7	7338.7	7351.8	7386.8	7404.3
15°	7461.3	7474.4	7435.0	7378.1	7364.9	7351.8	7347.4	7364.9	7404.3	7435.0
17.5°	7509.4	7522.6	7461.3	7382.4	7364.9	7369.3	7364.9	7378.1	7439.4	7496.3
20°	7553.2	7562.0	7478.8	7382.4	7364.9	7369.3	7364.9	7391.2	7470.0	7548.8
22.5°	7566.3	7575.1	7496.3	7413.1	7400.0	7404.3	7400.0	7426.2	7500.7	7579.5
25°	7570.7	7583.9	7522.6	7456.9	7478.8	7487.5	7478.8	7483.1	7540.1	7610.1
27.5°	7636.4	7653.9	7597.0	7540.1	7553.2	7548.8	7562.0	7575.1	7618.9	7688.9
30°	7772.1	7785.3	7737.1	7680.2	7671.4	7640.8	7680.2	7724.0	7772.1	7833.4
32.5°	7995.5	8021.7	7960.4	7899.1	7859.7	7842.2	7872.8	7947.3	8013.0	8078.6
35°	8367.6	8385.2	8328.2	8214.4	8144.3	8144.3	8170.6	8266.9	8372.0	8455.2
37.5°	8893.1	8915.0	8814.3	8678.5	8573.4	8573.4	8608.5	8709.2	8866.8	8985.0
40°	9532.4	9563.0	9436.0	9295.9	9195.2	9177.7	9221.5	9335.3	9484.2	9633.1
42.5°	10303.0	10338.0	10171.7	10049.0	9970.2	9970.2	9992.1	10097.2	10233.0	10416.9
45°	11288.2	11349.5	11121.8	10999.2	10924.8	10942.3	10955.4	11047.4	11170.0	11380.2
47.5°	12461.7	12523.0	12282.2	12155.2	12142.1	12225.2	12172.7	12238.4	12304.1	12544.9
50°	13792.8	13897.9	13731.5	13722.8	13749.0	13902.3	13779.7	13814.7	13740.3	13893.5
52.5°	15421.7	15574.9	15544.3	15596.8	15890.2	16205.5	15925.2	15802.6	15522.4	15570.6
55°	17396.5	17628.5	17672.3	17987.6	18653.1	19296.8	18701.3	18206.5	17611.0	17501.5
57.5°	19642.7	19826.6	20036.8	20680.5	21924.0	23066.8	21924.0	20829.3	19892.3	19669.0
60°	22059.7	22287.4	22488.9	23439.0	25286.8	26893.8	25251.8	23513.5	22274.3	21972.2
62.5°	24656.3	24949.7	25089.8	26145.0	28299.3	30217.2	28330.0	26223.9	24849.0	24524.9
65°	27147.8	27388.6	27546.2	28671.5	30729.5	32651.7	30869.6	28794.1	27379.8	26955.1
67.5°	28308.1	28439.5	28824.8	30099.0	32270.8	34464.5	32638.6	30234.7	28654.0	27909.6
70°	26609.2	26342.1	27270.4	29310.8	32454.7	35576.7	32875.1	29249.5	27314.1	26105.6
72.5°	20562.2	20102.5	21713.8	25203.6	30352.9	34867.4	30563.1	25400.7	22716.5	20264.5
75°	11187.5	10666.4	12890.8	17304.5	24205.3	30221.6	24761.4	17799.3	14353.3	11104.3
77.5°	3157.0	2960.0	4755.2	8372.0	14559.1	21219.0	15119.5	8555.9	5639.7	3345.3
80°	967.7	937.0	1269.8	2522.1	6182.7	10162.9	5941.9	2552.8	1615.7	1020.2
82.5°	573.6	525.4	630.5	919.5	1576.3	3192.1	1532.5	958.9	770.6	516.7
85°	328.4	306.5	372.2	446.6	529.8	678.7	442.2	455.4	411.6	275.9
87.5°	135.7	122.6	144.5	140.1	122.6	157.6	118.2	140.1	166.4	109.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7684.6
7658.3
7562.0
7456.9
7408.7
7408.7
7439.4
7496.3
7553.2
7579.5
7605.8
7671.4
7820.3
8052.4
8424.6
8941.2
9584.9
10403.7
11371.4
12474.8
13801.6
15408.5
17330.8
19511.4
21709.4
24262.2
26744.9
27918.4
26394.6
20873.1
11826.8
3717.5
1077.2
560.5
289.0
100.7
0.0

OF REPORT)