

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: P943720

Luminaire Tested: **GALN-SB8B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943720
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-SB8B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41385 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

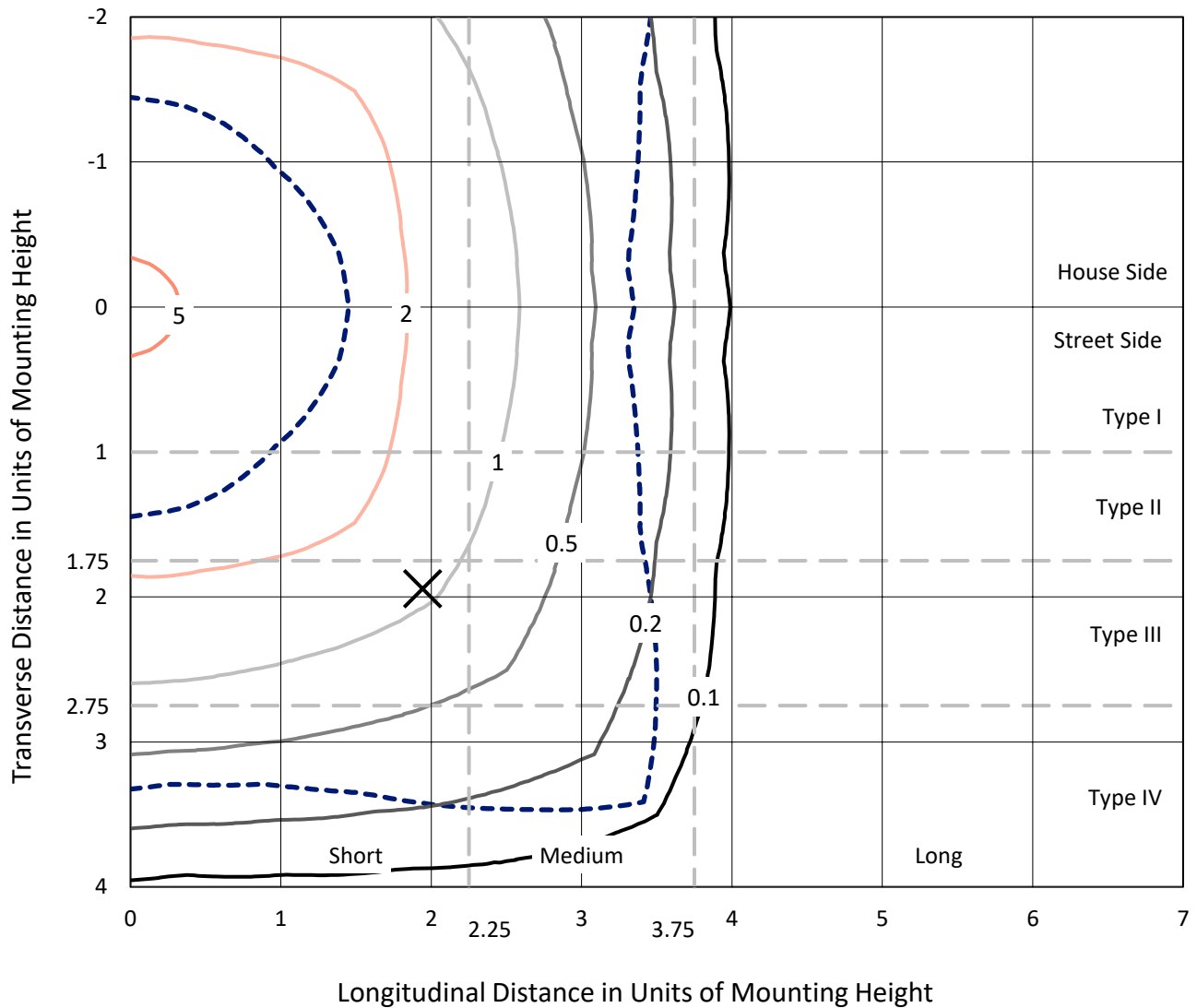
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943720
 CATALOG NUMBER: GALN-SB8B-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

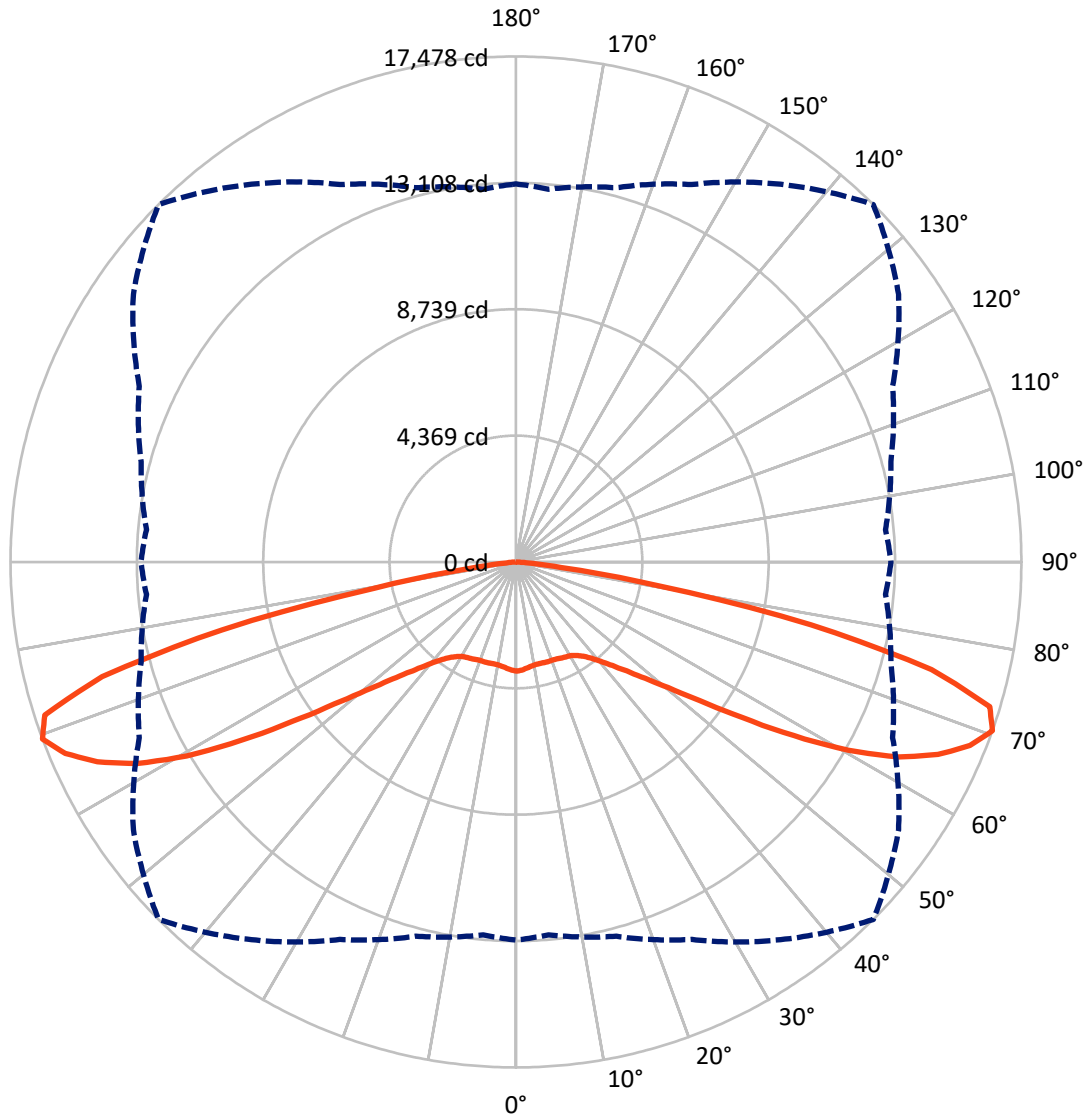
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

REPORT NUMBER: P943720
CATALOG NUMBER: GALN-SB8B-830-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P943720

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20692.5	0.0	20692.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20692.5	0.0	20692.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41385.0	0.0	41385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	0.8
10°-20°	1031.1	2.5
20°-30°	1716.0	4.1
30°-40°	2595.1	6.3
40°-50°	4312.4	10.4
50°-60°	8137.3	19.7
60°-70°	13740.2	33.2
70°-80°	9028.7	21.8
80°-90°	473.0	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°	41385.0	100.0
0°-180°	41385.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943720

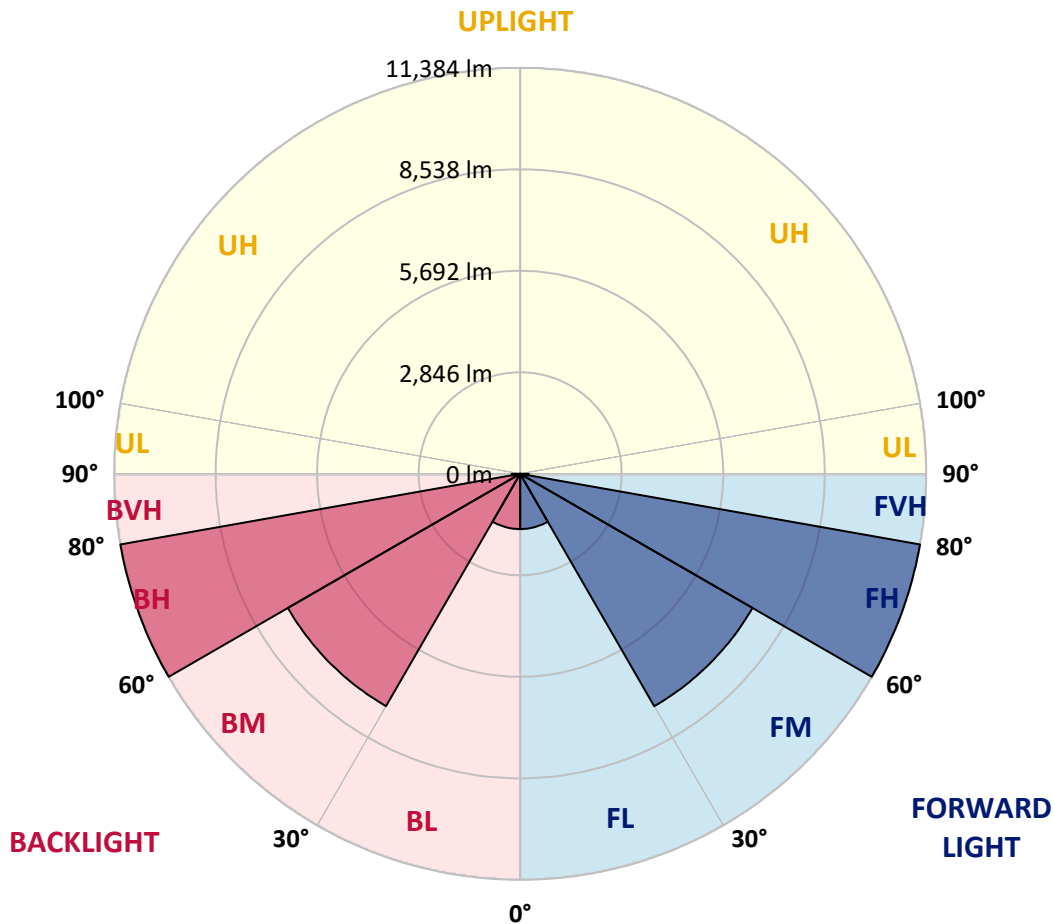
CATALOG NUMBER: GALN-SB8B-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.1	3.7			
FM (30°-60°)	7522.4	18.2			
FH (60°-80°)	11384.5	27.5			G4/12000
FVH (80°-90°)	236.5	0.6			G3/500
BL (0°-30°)	1549.1	3.7	B3/2500		
BM (30°-60°)	7522.4	18.2	B4/8500		
BH (60°-80°)	11384.5	27.5	B5		G4/12000
BVH (80°-90°)	236.5	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-G4

Type V Short



REPORT NUMBER: P943720

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1
2.5°	3751.5	3762.2	3757.9	3749.3	3749.3	3742.9	3749.3	3753.6	3760.1	3764.4
5°	3702.0	3710.6	3708.5	3702.0	3704.2	3697.7	3702.0	3708.5	3712.8	3714.9
7.5°	3659.0	3667.6	3663.3	3652.5	3652.5	3646.1	3648.2	3654.7	3661.1	3663.3
10°	3648.2	3656.8	3643.9	3626.7	3620.3	3611.7	3613.8	3620.3	3633.2	3639.6
12.5°	3652.5	3659.0	3646.1	3620.3	3613.8	3605.2	3605.2	3611.7	3628.9	3637.5
15°	3665.4	3671.9	3652.5	3624.6	3618.1	3611.7	3609.5	3618.1	3637.5	3652.5
17.5°	3689.1	3695.6	3665.4	3626.7	3618.1	3620.3	3618.1	3624.6	3654.7	3682.6
20°	3710.6	3714.9	3674.0	3626.7	3618.1	3620.3	3618.1	3631.0	3669.7	3708.5
22.5°	3717.1	3721.4	3682.6	3641.8	3635.3	3637.5	3635.3	3648.2	3684.8	3723.5
25°	3719.2	3725.7	3695.6	3663.3	3674.0	3678.3	3674.0	3676.2	3704.2	3738.6
27.5°	3751.5	3760.1	3732.1	3704.2	3710.6	3708.5	3714.9	3721.4	3742.9	3777.3
30°	3818.2	3824.6	3801.0	3773.0	3768.7	3753.6	3773.0	3794.5	3818.2	3848.3
32.5°	3927.9	3940.8	3910.7	3880.5	3861.2	3852.6	3867.6	3904.2	3936.5	3968.7
35°	4110.7	4119.3	4091.4	4035.4	4001.0	4001.0	4013.9	4061.2	4112.9	4153.7
37.5°	4368.8	4379.6	4330.1	4263.4	4211.8	4211.8	4229.0	4278.5	4355.9	4414.0
40°	4682.9	4698.0	4635.6	4566.7	4517.3	4508.7	4530.2	4586.1	4659.2	4732.4
42.5°	5061.5	5078.7	4997.0	4936.7	4898.0	4898.0	4908.8	4960.4	5027.1	5117.4
45°	5545.5	5575.6	5463.7	5403.5	5366.9	5375.5	5382.0	5427.2	5487.4	5590.7
47.5°	6122.0	6152.1	6033.8	5971.4	5964.9	6005.8	5980.0	6012.3	6044.5	6162.8
50°	6775.9	6827.5	6745.8	6741.5	6754.4	6829.7	6769.4	6786.7	6750.1	6825.4
52.5°	7576.1	7651.4	7636.3	7662.1	7806.3	7961.1	7823.5	7763.2	7625.6	7649.2
55°	8546.2	8660.2	8681.8	8836.6	9163.6	9479.8	9187.3	8944.2	8651.6	8597.9
57.5°	9649.7	9740.1	9843.3	10159.6	10770.5	11331.9	10770.5	10232.7	9772.4	9662.7
60°	10837.1	10949.0	11047.9	11514.7	12422.5	13211.9	12405.3	11551.3	10942.5	10794.1
62.5°	12112.7	12256.9	12325.7	12844.1	13902.4	14844.6	13917.5	12882.8	12207.4	12048.2
65°	13336.7	13455.0	13532.4	14085.3	15096.3	16040.6	15165.1	14145.5	13450.7	13242.0
67.5°	13906.7	13971.3	14160.6	14786.5	15853.5	16931.1	16034.1	14853.2	14076.7	13711.0
70°	13072.1	12940.9	13396.9	14399.3	15943.8	17477.5	16150.3	14369.2	13418.4	12824.7
72.5°	10101.5	9875.6	10667.2	12381.6	14911.3	17129.0	15014.5	12478.4	11159.8	9955.2
75°	5496.0	5240.0	6332.8	8501.1	11891.2	14846.8	12164.4	8744.1	7051.2	5455.1
77.5°	1550.9	1454.1	2336.1	4112.9	7152.3	10424.1	7427.7	4203.2	2770.6	1643.4
80°	475.4	460.3	623.8	1239.0	3037.3	4992.7	2919.0	1254.1	793.7	501.2
82.5°	281.8	258.1	309.8	451.7	774.4	1568.1	752.9	471.1	378.6	253.8
85°	161.3	150.6	182.8	219.4	260.3	333.4	217.3	223.7	202.2	135.5
87.5°	66.7	60.2	71.0	68.8	60.2	77.4	58.1	68.8	81.7	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3775.1
3762.2
3714.9
3663.3
3639.6
3639.6
3654.7
3682.6
3710.6
3723.5
3736.4
3768.7
3841.8
3955.8
4138.7
4392.5
4708.7
5111.0
5586.4
6128.4
6780.2
7569.7
8514.0
9585.2
10665.1
11919.1
13138.8
13715.3
12966.7
10254.2
5810.1
1826.3
529.2
275.3
142.0
49.5
0.0

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