

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: P943040

Luminaire Tested: **GALN-SB7B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943040
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-SB7B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 36398 lumens
Efficiency: N/A
Efficacy: 141.8 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

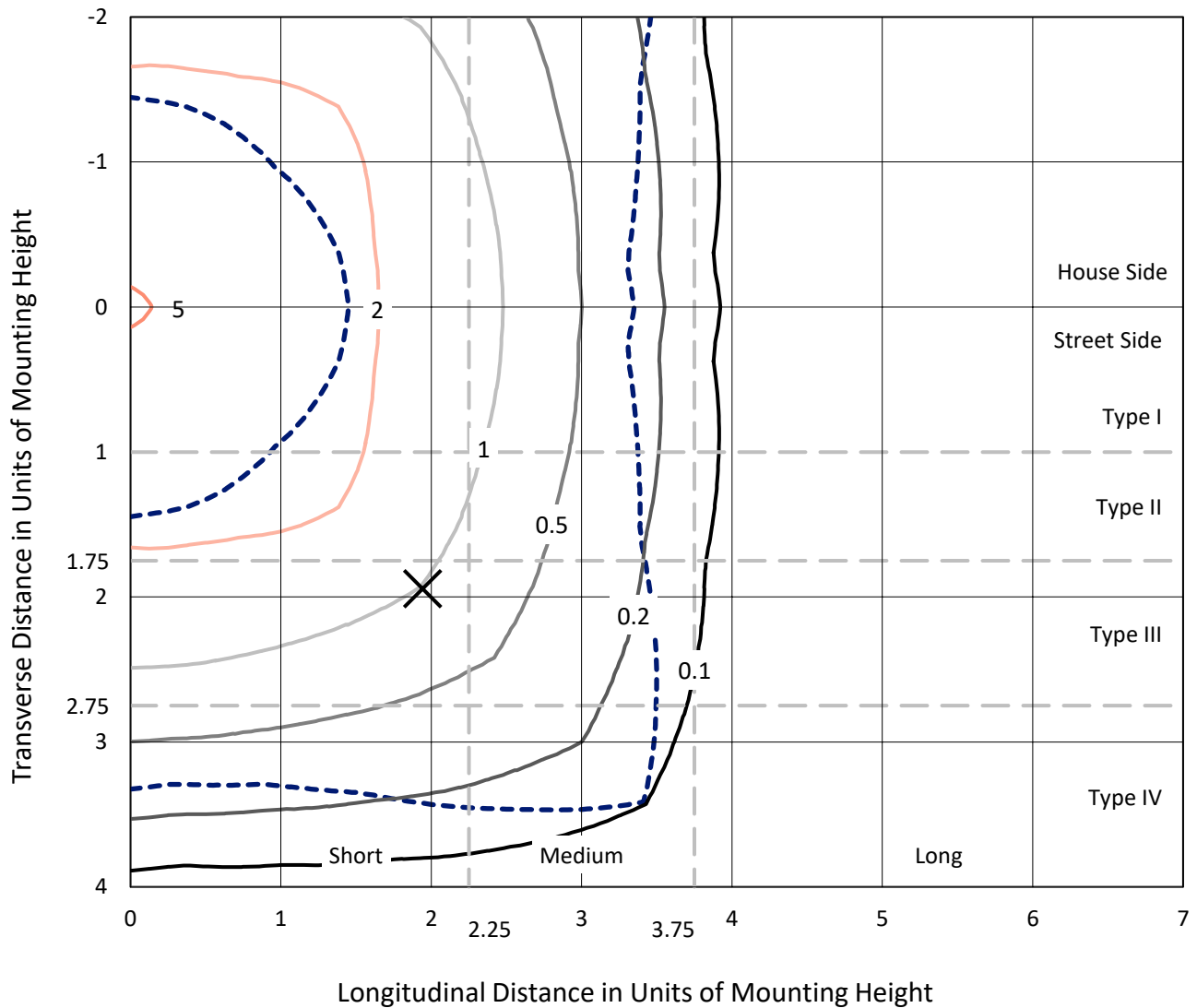
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

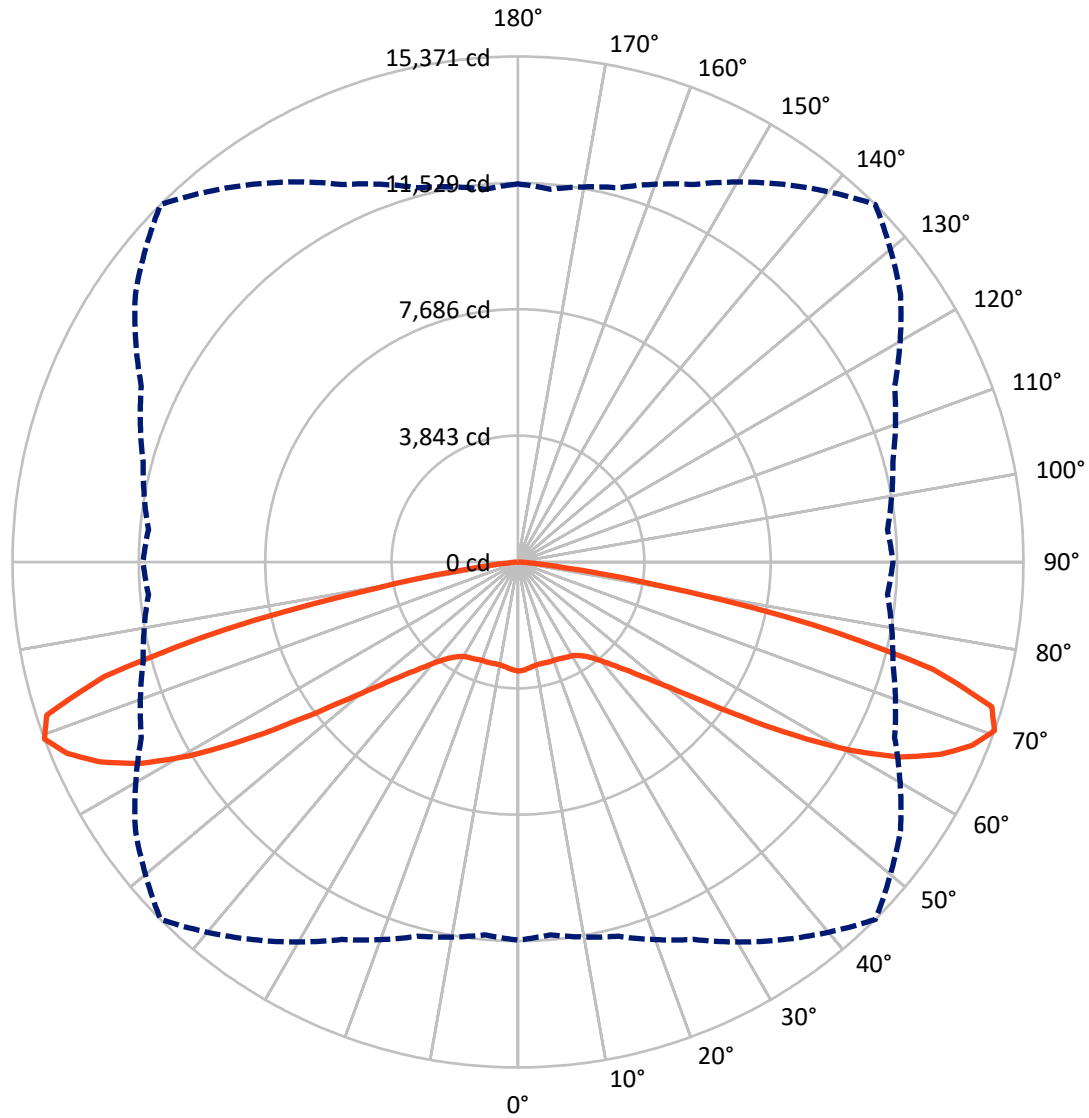
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	18199.0	0.0	18199.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18199.0	0.0	18199.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36398.0	0.0	36398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	0.8
10°-20°	906.9	2.5
20°-30°	1509.2	4.1
30°-40°	2282.4	6.3
40°-50°	3792.7	10.4
50°-60°	7156.8	19.7
60°-70°	12084.5	33.2
70°-80°	7940.7	21.8
80°-90°	416.0	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°	36398.0	100.0
0°-180°	36398.0	100.0

Coefficient of Utilization



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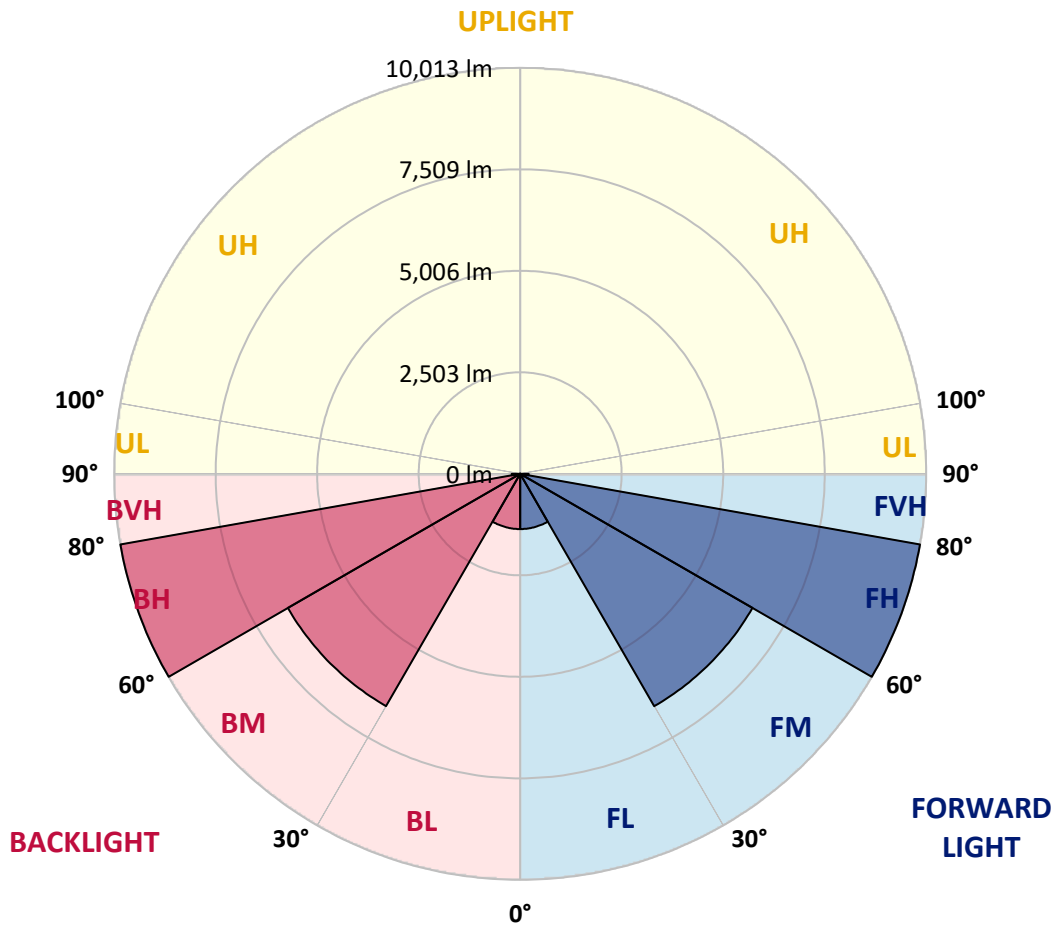
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.5	3.7			
FM (30°-60°)	6615.9	18.2			
FH (60°-80°)	10012.6	27.5			G4/12000
FVH (80°-90°)	208.0	0.6			G2/225
BL (0°-30°)	1362.5	3.7	B3/2500		
BM (30°-60°)	6615.9	18.2	B4/8500		
BH (60°-80°)	10012.6	27.5	B5		G4/12000
BVH (80°-90°)	208.0	0.6			G2/225
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2
2.5°	3299.4	3308.9	3305.1	3297.5	3297.5	3291.9	3297.5	3301.3	3307.0	3310.8
5°	3255.9	3263.5	3261.6	3255.9	3257.8	3252.1	3255.9	3261.6	3265.4	3267.3
7.5°	3218.1	3225.6	3221.9	3212.4	3212.4	3206.7	3208.6	3214.3	3220.0	3221.9
10°	3208.6	3216.2	3204.8	3189.7	3184.0	3176.4	3178.3	3184.0	3195.4	3201.0
12.5°	3212.4	3218.1	3206.7	3184.0	3178.3	3170.8	3170.8	3176.4	3191.6	3199.2
15°	3223.7	3229.4	3212.4	3187.8	3182.1	3176.4	3174.6	3182.1	3199.2	3212.4
17.5°	3244.6	3250.2	3223.7	3189.7	3182.1	3184.0	3182.1	3187.8	3214.3	3238.9
20°	3263.5	3267.3	3231.3	3189.7	3182.1	3184.0	3182.1	3193.5	3227.5	3261.6
22.5°	3269.1	3272.9	3238.9	3202.9	3197.3	3199.2	3197.3	3208.6	3240.8	3274.8
25°	3271.0	3276.7	3250.2	3221.9	3231.3	3235.1	3231.3	3233.2	3257.8	3288.1
27.5°	3299.4	3307.0	3282.4	3257.8	3263.5	3261.6	3267.3	3272.9	3291.9	3322.1
30°	3358.1	3363.7	3342.9	3318.3	3314.6	3301.3	3318.3	3337.3	3358.1	3384.6
32.5°	3454.6	3465.9	3439.4	3412.9	3395.9	3388.3	3401.6	3433.7	3462.1	3490.5
35°	3615.4	3622.9	3598.3	3549.1	3518.9	3518.9	3530.2	3571.8	3617.3	3653.2
37.5°	3842.4	3851.8	3808.3	3749.7	3704.3	3704.3	3719.4	3762.9	3831.0	3882.1
40°	4118.6	4131.8	4077.0	4016.4	3972.9	3965.4	3984.3	4033.5	4097.8	4162.1
42.5°	4451.6	4466.7	4394.8	4341.8	4307.8	4307.8	4317.2	4362.7	4421.3	4500.8
45°	4877.2	4903.7	4805.3	4752.4	4720.2	4727.8	4733.5	4773.2	4826.2	4917.0
47.5°	5384.3	5410.7	5306.7	5251.8	5246.2	5282.1	5259.4	5287.8	5316.2	5420.2
50°	5959.4	6004.8	5932.9	5929.1	5940.5	6006.7	5953.7	5968.8	5936.7	6002.9
52.5°	6663.2	6729.4	6716.1	6738.8	6865.6	7001.8	6880.7	6827.8	6706.7	6727.5
55°	7516.4	7616.7	7635.6	7771.8	8059.4	8337.5	8080.2	7866.4	7609.1	7561.8
57.5°	8486.9	8566.4	8657.2	8935.3	9472.6	9966.4	9472.6	8999.6	8594.8	8498.3
60°	9531.2	9629.6	9716.6	10127.2	10925.5	11619.9	10910.4	10159.3	9623.9	9493.4
62.5°	10653.1	10779.9	10840.4	11296.4	12227.2	13055.8	12240.4	11330.4	10736.4	10596.4
65°	11729.6	11833.6	11901.7	12388.0	13277.1	14107.7	13337.7	12440.9	11829.9	11646.3
67.5°	12230.9	12287.7	12454.2	13004.7	13943.1	14890.9	14102.0	13063.4	12380.4	12058.8
70°	11496.9	11381.5	11782.6	12664.2	14022.5	15371.4	14204.2	12637.7	11801.5	11279.3
72.5°	8884.2	8685.6	9381.8	10889.6	13114.4	15065.0	13205.2	10974.7	9815.0	8755.6
75°	4833.7	4608.6	5569.7	7476.7	10458.3	13057.7	10698.5	7690.4	6201.5	4797.8
77.5°	1364.0	1278.9	2054.6	3617.3	6290.5	9168.0	6532.6	3696.7	2436.7	1445.4
80°	418.1	404.9	548.6	1089.7	2671.3	4391.0	2567.3	1103.0	698.1	440.8
82.5°	247.8	227.0	272.4	397.3	681.1	1379.2	662.2	414.3	333.0	223.2
85°	141.9	132.4	160.8	193.0	228.9	293.2	191.1	196.8	177.8	119.2
87.5°	58.6	53.0	62.4	60.5	53.0	68.1	51.1	60.5	71.9	47.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3320.2
3308.9
3267.3
3221.9
3201.0
3201.0
3214.3
3238.9
3263.5
3274.8
3286.2
3314.6
3378.9
3479.1
3640.0
3863.2
4141.3
4495.1
4913.2
5389.9
5963.2
6657.5
7488.0
8430.2
9379.9
10482.8
11555.5
12062.6
11404.2
9018.5
5109.9
1606.2
465.4
242.2
124.9
43.5
0.0

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