

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: P941340

Luminaire Tested: **GALN-SB4D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941340
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-SB4D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 37068 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

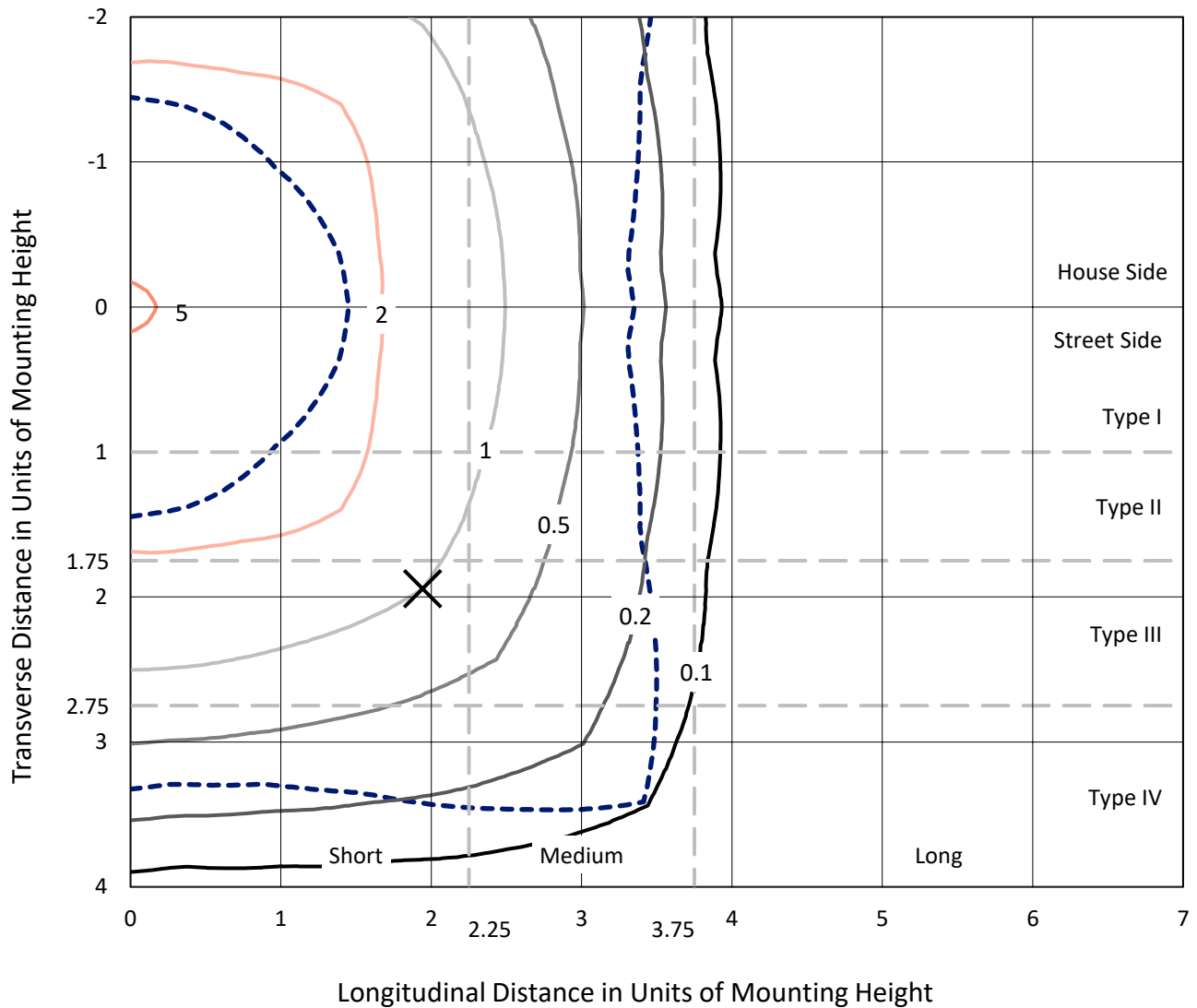
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941340
 CATALOG NUMBER: GALN-SB4D-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

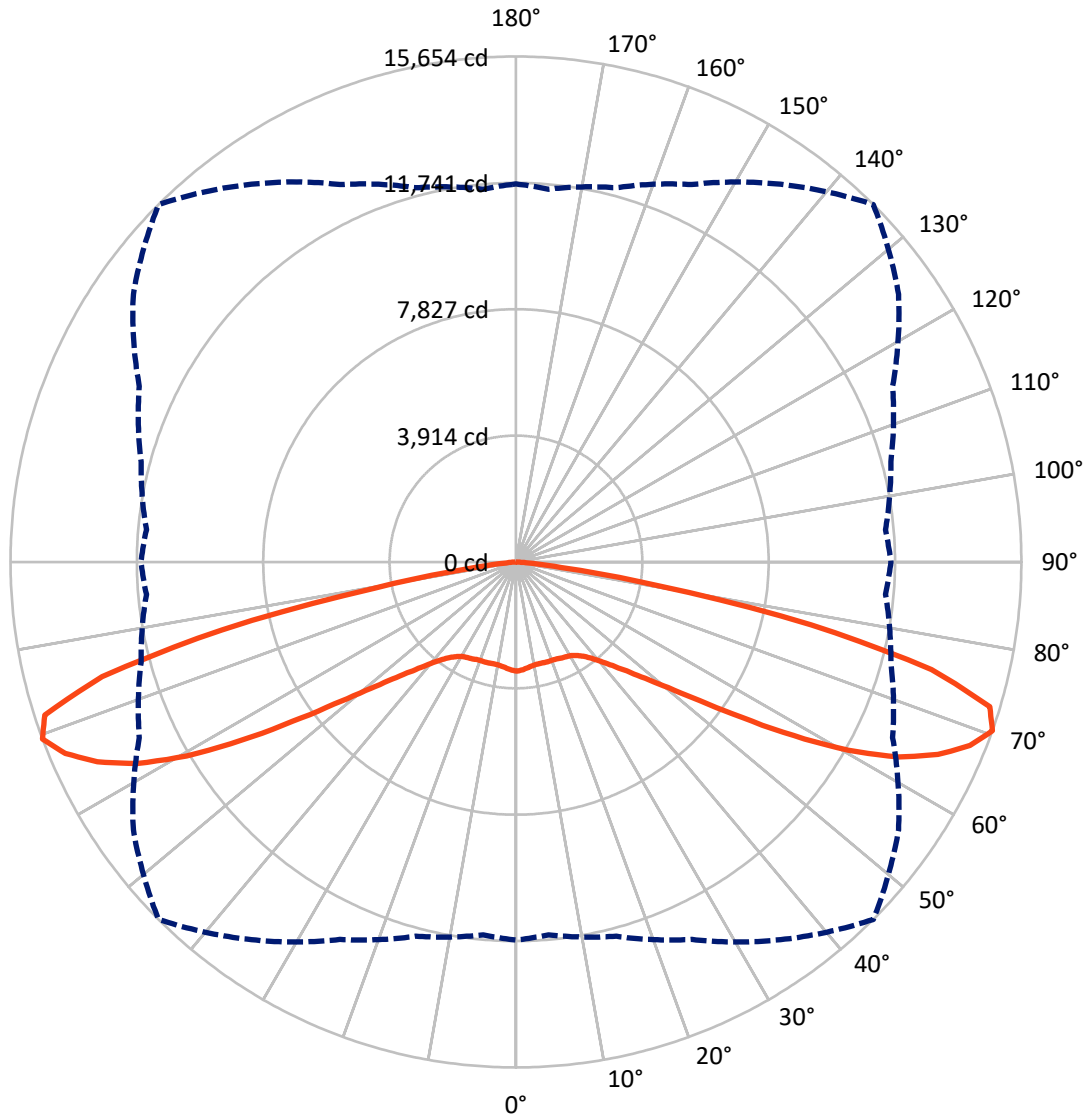
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P941340
CATALOG NUMBER: GALN-SB4D-830-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P941340

CATALOG NUMBER: GALN-SB4D-830-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18534.0	0.0	18534.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18534.0	0.0	18534.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37068.0	0.0	37068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	0.8
10°-20°	923.6	2.5
20°-30°	1537.0	4.1
30°-40°	2324.4	6.3
40°-50°	3862.5	10.4
50°-60°	7288.5	19.7
60°-70°	12306.9	33.2
70°-80°	8086.9	21.8
80°-90°	423.7	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°	37068.0	100.0
0°-180°	37068.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941340

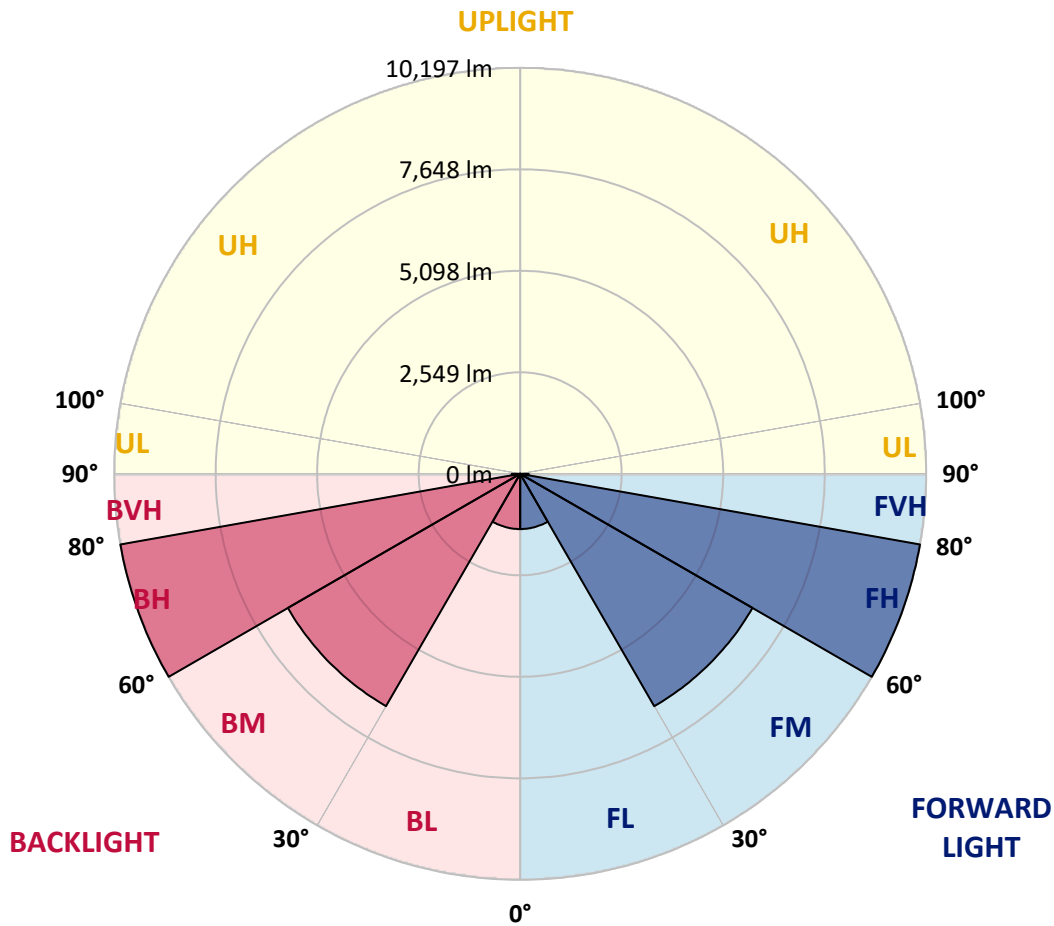
CATALOG NUMBER: GALN-SB4D-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.5	3.7			
FM (30°-60°)	6737.7	18.2			
FH (60°-80°)	10196.9	27.5			G4/12000
FVH (80°-90°)	211.8	0.6			G2/225
BL (0°-30°)	1387.5	3.7	B3/2500		
BM (30°-60°)	6737.7	18.2	B4/8500		
BH (60°-80°)	10196.9	27.5	B5		G4/12000
BVH (80°-90°)	211.8	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



REPORT NUMBER: P941340

CATALOG NUMBER: GALN-SB4D-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3381.3	3381.3	3381.3	3381.3	3381.3	3381.3	3381.3	3381.3	3381.3	3381.3
2.5°	3360.2	3369.8	3365.9	3358.2	3358.2	3352.4	3358.2	3362.1	3367.9	3371.7
5°	3315.8	3323.5	3321.6	3315.8	3317.8	3312.0	3315.8	3321.6	3325.5	3327.4
7.5°	3277.3	3285.0	3281.2	3271.5	3271.5	3265.7	3267.7	3273.5	3279.2	3281.2
10°	3267.7	3275.4	3263.8	3248.4	3242.6	3234.9	3236.8	3242.6	3254.2	3260.0
12.5°	3271.5	3277.3	3265.7	3242.6	3236.8	3229.1	3229.1	3234.9	3250.3	3258.0
15°	3283.1	3288.9	3271.5	3246.5	3240.7	3234.9	3233.0	3240.7	3258.0	3271.5
17.5°	3304.3	3310.1	3283.1	3248.4	3240.7	3242.6	3240.7	3246.5	3273.5	3298.5
20°	3323.5	3327.4	3290.8	3248.4	3240.7	3242.6	3240.7	3252.3	3286.9	3321.6
22.5°	3329.3	3333.2	3298.5	3261.9	3256.1	3258.0	3256.1	3267.7	3300.4	3335.1
25°	3331.3	3337.0	3310.1	3281.2	3290.8	3294.6	3290.8	3292.7	3317.8	3348.6
27.5°	3360.2	3367.9	3342.8	3317.8	3323.5	3321.6	3327.4	3333.2	3352.4	3383.3
30°	3419.9	3425.7	3404.5	3379.4	3375.6	3362.1	3379.4	3398.7	3419.9	3446.9
32.5°	3518.1	3529.7	3502.7	3475.8	3458.4	3450.7	3464.2	3496.9	3525.8	3554.8
35°	3681.9	3689.6	3664.6	3614.5	3583.7	3583.7	3595.2	3637.6	3683.8	3720.4
37.5°	3913.1	3922.7	3878.4	3818.7	3772.5	3772.5	3787.9	3832.2	3901.6	3953.6
40°	4194.4	4207.9	4152.0	4090.4	4046.1	4038.4	4057.6	4107.7	4173.2	4238.7
42.5°	4533.5	4548.9	4475.7	4421.8	4387.1	4387.1	4396.7	4443.0	4502.7	4583.6
45°	4967.0	4994.0	4893.8	4839.9	4807.1	4814.8	4820.6	4861.0	4915.0	5007.5
47.5°	5483.4	5510.3	5404.4	5348.5	5342.7	5379.3	5356.2	5385.1	5414.0	5520.0
50°	6069.1	6115.3	6042.1	6038.3	6049.8	6117.3	6063.3	6078.7	6046.0	6113.4
52.5°	6785.8	6853.3	6839.8	6862.9	6992.0	7130.7	7007.4	6953.4	6830.1	6851.3
55°	7654.8	7756.9	7776.1	7914.9	8207.7	8490.9	8228.9	8011.2	7749.2	7701.0
57.5°	8643.1	8724.1	8816.6	9099.8	9647.0	10149.8	9647.0	9165.3	8753.0	8654.7
60°	9706.7	9806.9	9895.5	10313.6	11126.7	11833.8	11111.2	10346.3	9801.1	9668.2
62.5°	10849.2	10978.3	11040.0	11504.3	12452.2	13296.1	12465.7	11539.0	10934.0	10791.4
65°	11945.5	12051.5	12120.8	12616.0	13521.5	14367.4	13583.2	12669.9	12047.6	11860.7
67.5°	12456.1	12513.9	12683.4	13244.1	14199.7	15165.0	14361.6	13303.8	12608.3	12280.7
70°	11708.5	11591.0	11999.5	12897.3	14280.7	15654.4	14465.6	12870.3	12018.7	11486.9
72.5°	9047.8	8845.5	9554.5	11090.1	13355.8	15342.3	13448.3	11176.8	9995.7	8916.7
75°	4922.7	4693.4	5672.2	7614.3	10650.8	13298.0	10895.5	7832.0	6315.7	4886.1
77.5°	1389.1	1302.4	2092.4	3683.8	6406.3	9336.8	6652.9	3764.8	2481.6	1472.0
80°	425.8	412.3	558.7	1109.8	2720.5	4471.9	2614.5	1123.3	711.0	448.9
82.5°	252.4	231.2	277.4	404.6	693.6	1404.6	674.3	421.9	339.1	227.3
85°	144.5	134.9	163.8	196.5	233.1	298.6	194.6	200.4	181.1	121.4
87.5°	59.7	53.9	63.6	61.7	53.9	69.4	52.0	61.7	73.2	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3381.3
3369.8
3327.4
3281.2
3260.0
3260.0
3273.5
3298.5
3323.5
3335.1
3346.7
3375.6
3441.1
3543.2
3707.0
3934.3
4217.5
4577.8
5003.6
5489.2
6072.9
6780.0
7625.9
8585.3
9552.5
10675.8
11768.2
12284.6
<i>11614.1</i>
9184.6
5204.0
1635.8
474.0
246.6
127.2
44.3
0.0

OF REPORT)