

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: P948967

Luminaire Tested: **GALN-SB3D-840-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

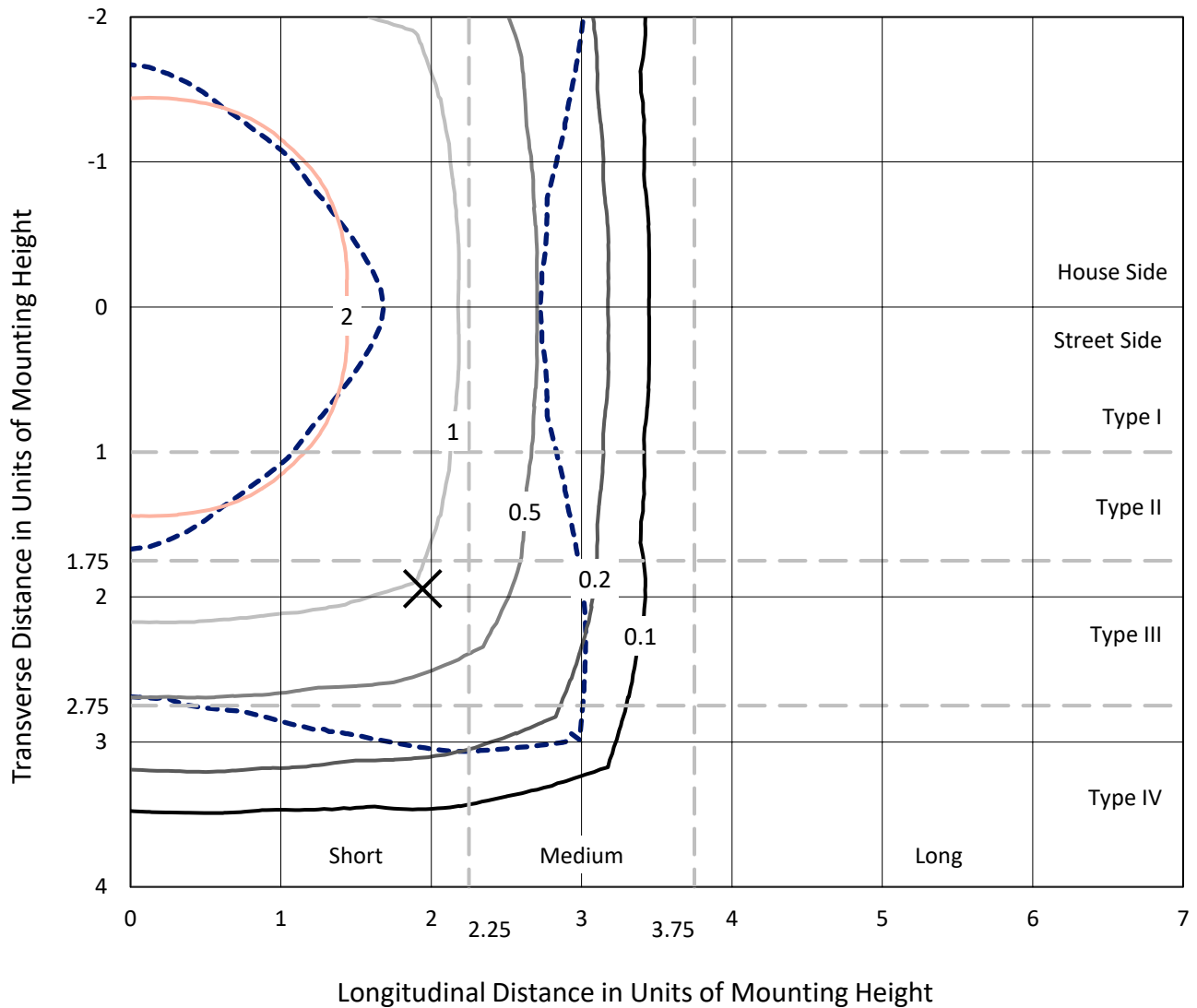
Lumens per Lamp: N/A  
Luminaire Lumens: 30584 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P948967  
 CATALOG NUMBER: GALN-SB3D-840-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

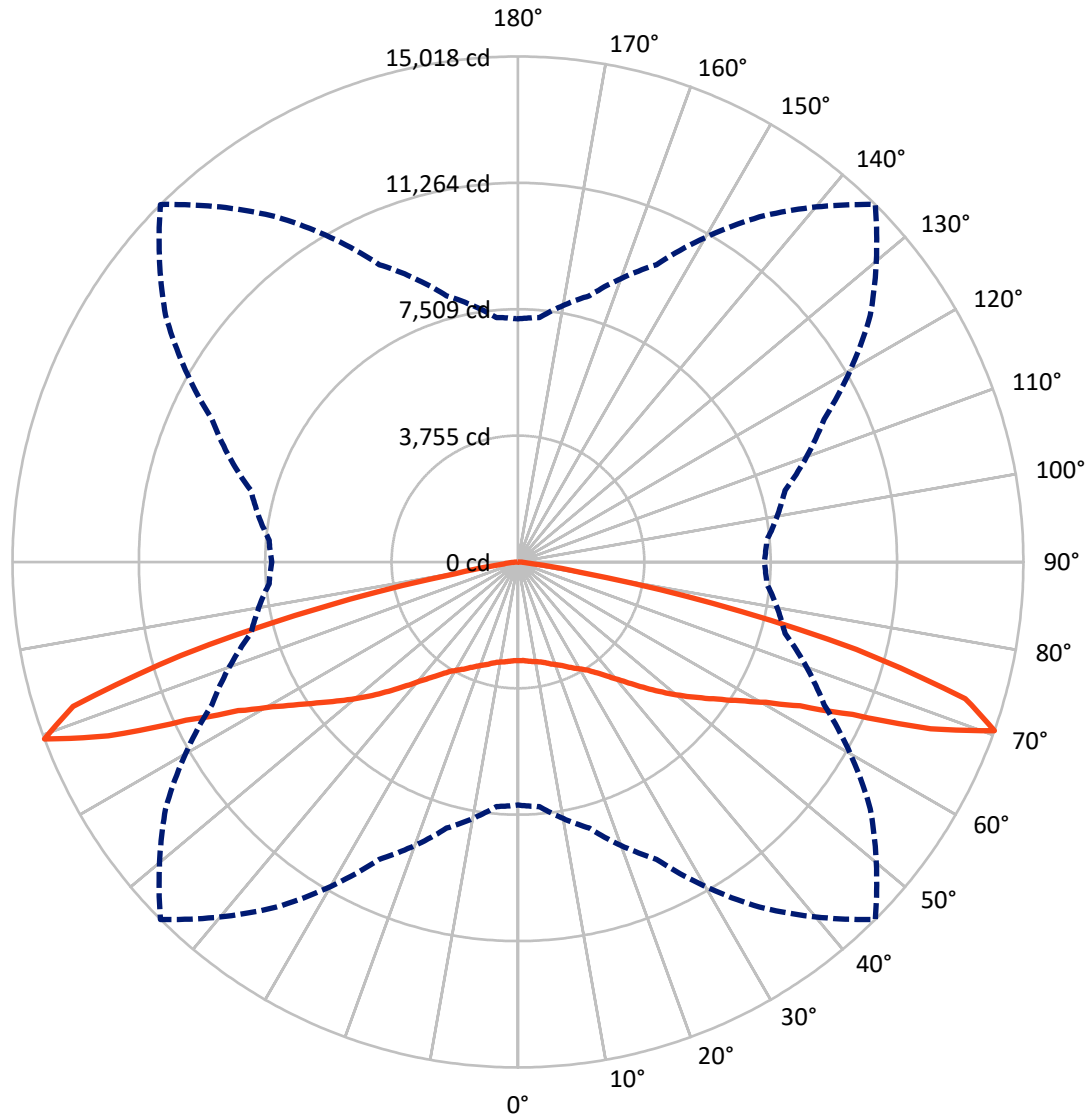
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P948967  
CATALOG NUMBER: GALN-SB3D-840-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P948967

CATALOG NUMBER: GALN-SB3D-840-U-5MQ

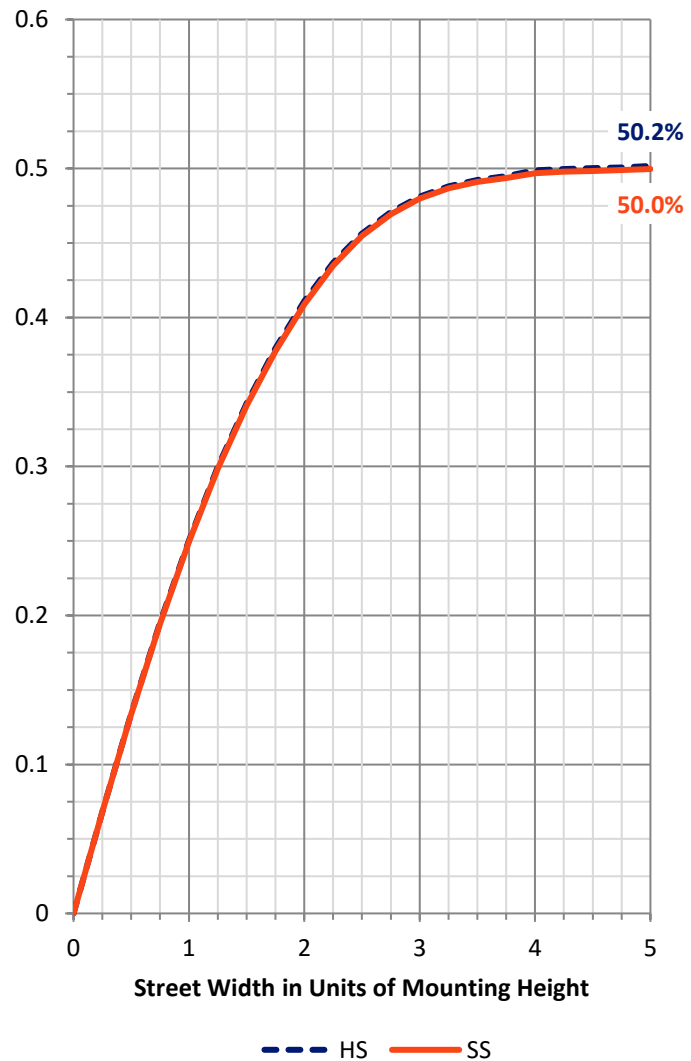
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15292.0	0.0	15292.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15292.0	0.0	15292.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30584.0	0.0	30584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.6	0.9
10°-20°	882.6	2.9
20°-30°	1577.2	5.2
30°-40°	2556.7	8.4
40°-50°	4164.4	13.6
50°-60°	6349.3	20.8
60°-70°	9445.7	30.9
70°-80°	5148.2	16.8
80°-90°	175.3	0.6
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°	30584.0	100.0
0°-180°	30584.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P948967

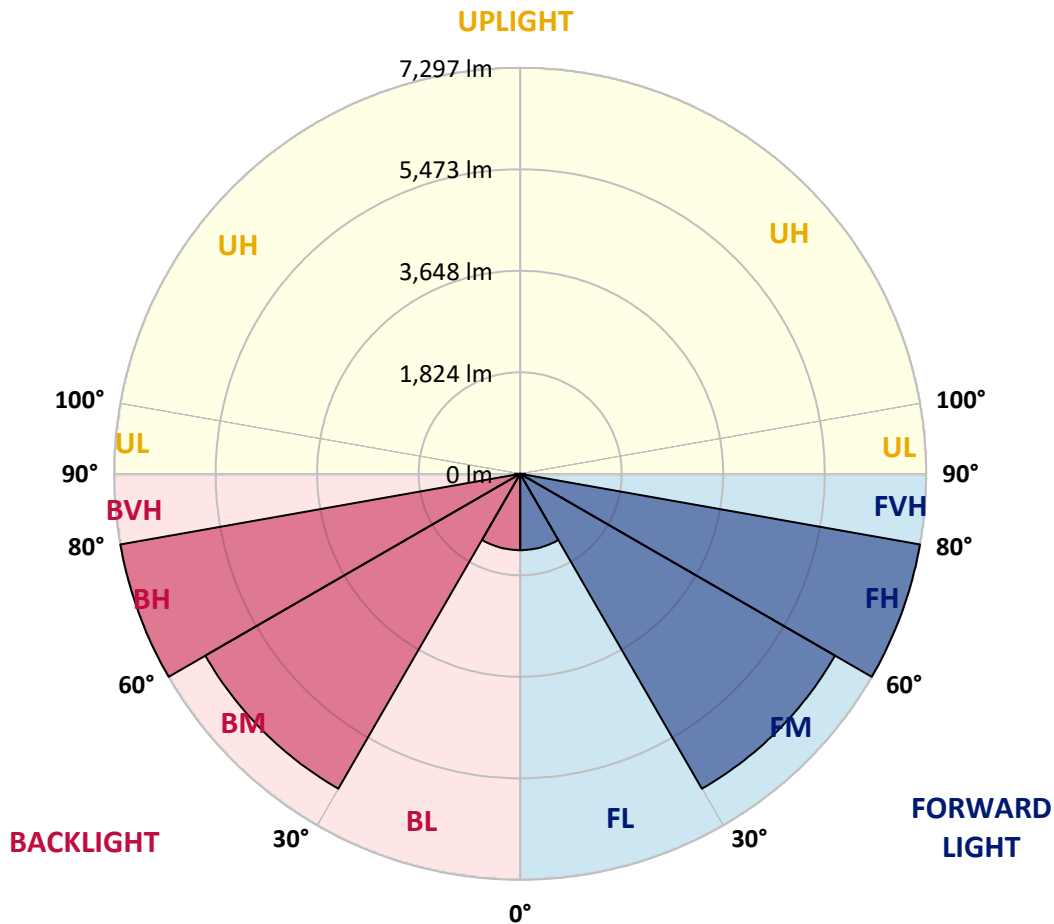
CATALOG NUMBER: GALN-SB3D-840-U-5MQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.2	4.5			
FM (30°-60°)	6535.2	21.4			
FH (60°-80°)	7297.0	23.9			G3/7500
FVH (80°-90°)	87.7	0.3			G1/100
BL (0°-30°)	1372.2	4.5	B3/2500		
BM (30°-60°)	6535.2	21.4	B4/8500		
BH (60°-80°)	7297.0	23.9	B5		G3/7500
BVH (80°-90°)	87.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



REPORT NUMBER: P948967

CATALOG NUMBER: GALN-SB3D-840-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2929.6	2929.6	2929.6	2929.6	2929.6	2929.6	2929.6	2929.6	2929.6	2929.6
2.5°	2943.4	2946.5	2940.4	2937.3	2934.2	2929.6	2931.2	2938.8	2945.0	2943.4
5°	2968.0	2971.1	2966.5	2964.9	2958.8	2957.3	2957.3	2964.9	2969.6	2966.5
7.5°	2995.7	3000.3	2992.6	2991.0	2988.0	2984.9	2983.4	2991.0	2995.7	2995.7
10°	3021.8	3026.4	3020.2	3015.6	3012.5	3012.5	3009.5	3015.6	3023.3	3021.8
12.5°	3049.4	3052.5	3046.3	3043.3	3043.3	3047.9	3043.3	3046.3	3052.5	3049.4
15°	3083.2	3084.7	3083.2	3087.8	3095.5	3110.8	3097.0	3093.9	3097.0	3089.3
17.5°	3129.2	3132.3	3138.5	3149.2	3159.9	3187.6	3163.0	3155.3	3155.3	3140.0
20°	3186.1	3190.7	3199.9	3218.3	3232.1	3258.2	3233.6	3222.9	3218.3	3198.3
22.5°	3245.9	3253.6	3267.4	3292.0	3316.6	3341.1	3316.6	3298.1	3284.3	3258.2
25°	3315.0	3324.2	3345.7	3385.7	3419.4	3454.8	3425.6	3388.7	3361.1	3324.2
27.5°	3413.3	3424.0	3450.1	3499.3	3542.3	3573.0	3545.3	3497.7	3459.4	3414.8
30°	3551.5	3562.2	3592.9	3645.1	3674.3	3694.3	3675.9	3639.0	3592.9	3542.3
32.5°	3729.6	3743.4	3777.2	3826.3	3832.5	3835.5	3829.4	3811.0	3777.2	3715.8
35°	3955.3	3970.7	4009.0	4049.0	4042.8	4049.0	4039.8	4033.6	4009.0	3938.4
37.5°	4231.7	4250.1	4290.0	4320.7	4305.4	4297.7	4299.2	4300.8	4287.0	4208.7
40°	4552.6	4577.2	4606.3	4638.6	4612.5	4589.4	4604.8	4617.1	4604.8	4525.0
42.5°	4882.7	4918.0	4948.7	4994.8	4973.3	4944.1	4965.6	4979.5	4953.3	4867.4
45°	5249.7	5283.5	5323.4	5392.5	5377.1	5346.4	5377.1	5380.2	5335.7	5234.3
47.5°	5628.9	5664.3	5724.1	5816.3	5810.1	5776.3	5816.3	5794.8	5738.0	5616.7
50°	5988.2	6037.4	6129.5	6258.5	6270.8	6229.3	6283.0	6241.6	6146.4	5994.4
52.5°	6326.0	6378.2	6524.1	6699.2	6743.7	6689.9	6762.1	6689.9	6547.1	6352.1
55°	6680.7	6739.1	6912.6	7141.4	7230.4	7190.5	7258.1	7149.0	6946.4	6709.9
57.5°	7098.4	7133.7	7341.0	7612.7	7763.2	7772.4	7803.1	7618.9	7373.2	7104.5
60°	7551.3	7600.5	7826.2	8151.7	8389.7	8466.4	8434.2	8160.9	7875.3	7566.7
62.5°	8131.7	8185.5	8455.7	8845.7	9221.9	9412.3	9286.4	8890.2	8537.1	8167.0
65°	8612.3	8672.2	9160.5	9856.0	10540.8	10923.2	10606.9	9877.5	9241.8	8719.8
67.5°	8263.8	8337.5	9103.7	10381.1	12084.0	13224.8	12142.3	10537.8	9292.5	8584.7
70°	7222.7	7291.8	8185.5	9747.0	12518.5	15018.2	12779.5	10034.1	8214.6	7422.3
72.5°	4795.2	5017.8	5922.2	7795.5	11178.0	13897.3	11288.6	7637.3	5493.8	4784.4
75°	1590.7	1768.8	2386.1	4041.3	7486.8	10393.4	7127.5	3576.1	1890.1	1360.4
77.5°	400.8	462.2	637.2	1156.2	2986.4	5917.6	2688.6	944.3	514.4	359.3
80°	195.0	215.0	307.1	385.4	747.8	1880.9	701.7	362.4	242.6	187.3
82.5°	107.5	109.0	173.5	218.0	277.9	486.7	288.7	211.9	139.7	113.6
85°	66.0	64.5	92.1	116.7	116.7	173.5	138.2	116.7	79.8	70.6
87.5°	26.1	26.1	33.8	36.9	32.2	44.5	35.3	38.4	30.7	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2929.6
2945.0
2968.0
2995.7
3021.8
3047.9
3089.3
3140.0
3198.3
3256.7
3322.7
3413.3
3542.3
3717.3
3938.4
4208.7
4525.0
4873.5
5245.1
5609.0
5991.3
6333.7
6677.7
7067.7
7517.5
8102.5
8633.8
8478.7
7316.4
4629.4
1286.7
320.9
172.0
113.6
73.7
30.7
0.0

OF REPORT)