

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: P950354

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

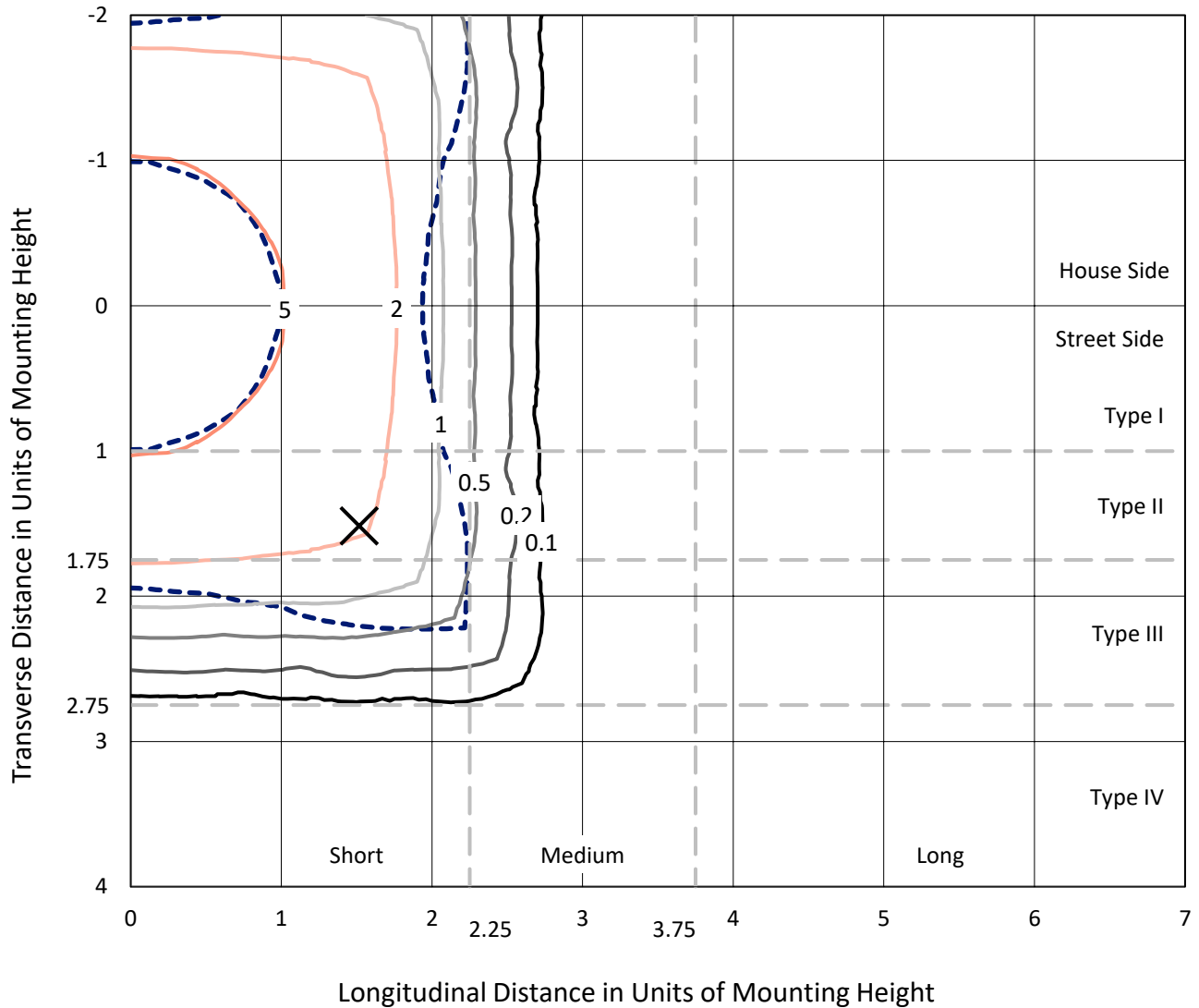
Lumens per Lamp: N/A  
Luminaire Lumens: 38401 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P950354  
 CATALOG NUMBER: GALN-SB4D-830-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

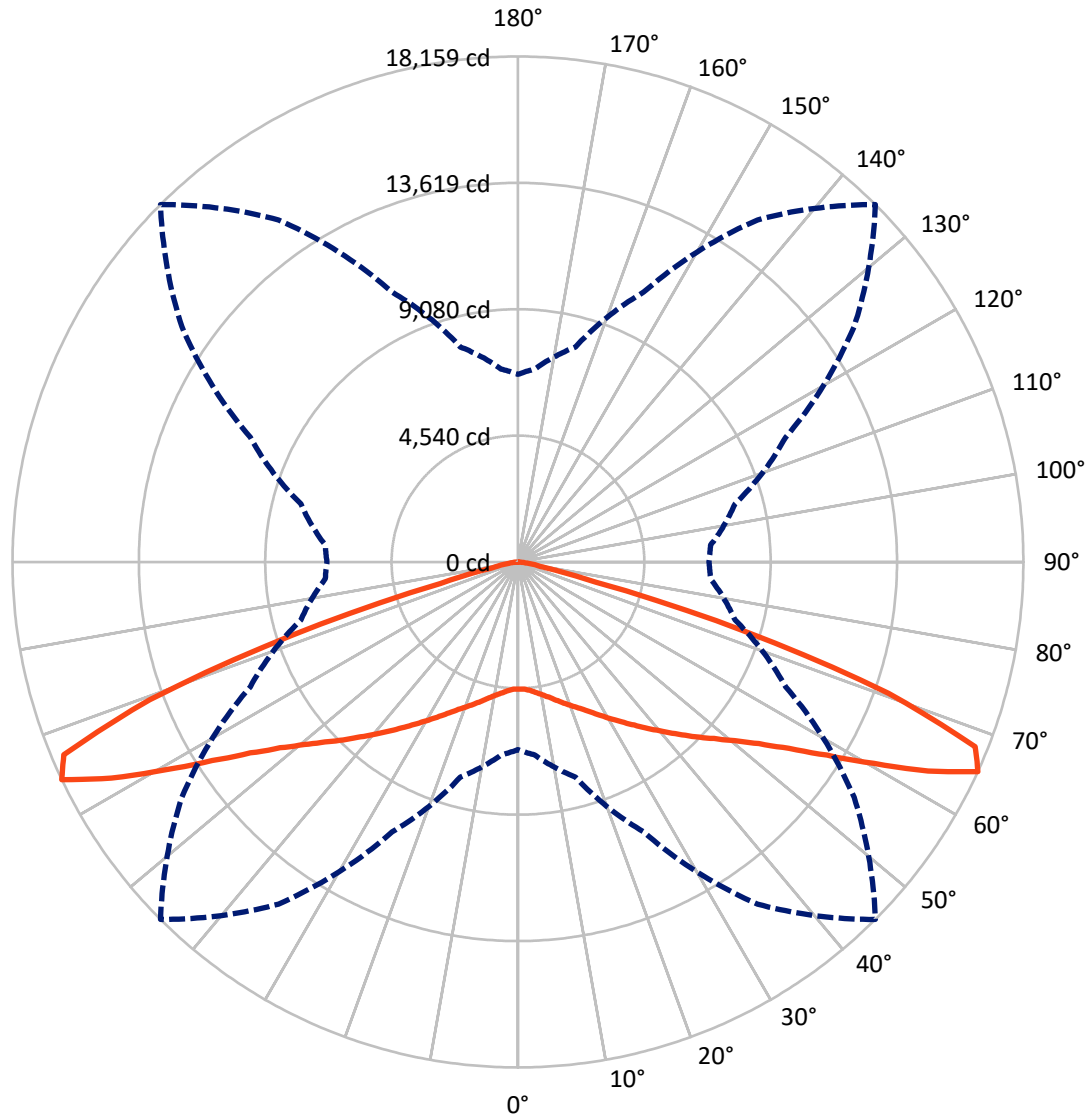
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P950354  
CATALOG NUMBER: GALN-SB4D-830-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P950354  
 CATALOG NUMBER: GALN-SB4D-830-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19200.5	0.0	19200.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19200.5	0.0	19200.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38401.0	0.0	38401.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.0	1.2
10°-20°	1471.7	3.8
20°-30°	2778.8	7.2
30°-40°	4550.2	11.8
40°-50°	7055.1	18.4
50°-60°	10421.8	27.1
60°-70°	9920.6	25.8
70°-80°	1600.8	4.2
80°-90°	150.9	0.4
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°	38401.0	100.0
0°-180°	38401.0	100.0



REPORT NUMBER: P950354

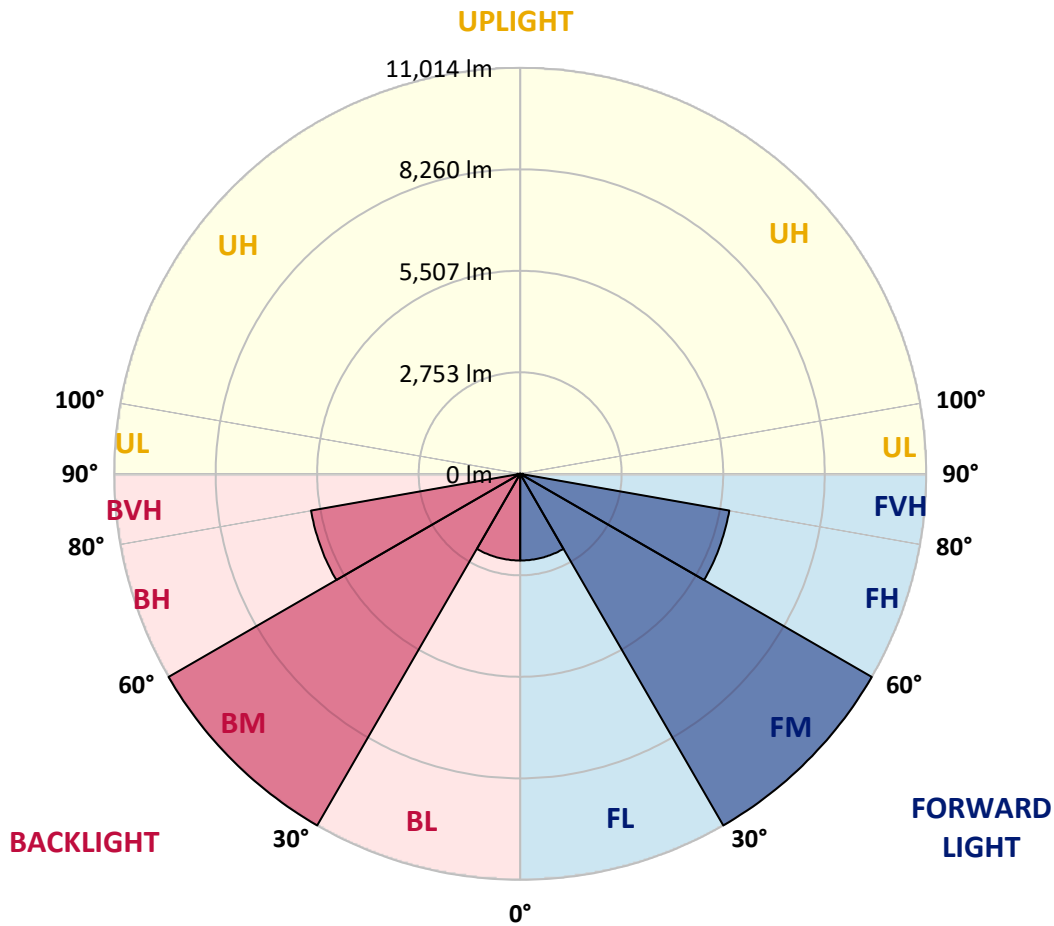
CATALOG NUMBER: GALN-SB4D-830-U-5NQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2350.8	6.1			
FM	(30°-60°)	11013.6	28.7			
FH	(60°-80°)	5760.7	15.0			G3/7500
FVH	(80°-90°)	75.4	0.2			G1/100
BL	(0°-30°)	2350.8	6.1	B3/2500		
BM	(30°-60°)	11013.6	28.7	B5		
BH	(60°-80°)	5760.7	15.0	B5		G3/7500
BVH	(80°-90°)	75.4	0.2			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: P950354  
 CATALOG NUMBER: GALN-SB4D-830-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1
2.5°	4600.9	4585.5	4597.1	4587.4	4579.7	4572.0	4575.9	4589.4	4595.2	4597.1
5°	4662.6	4649.1	4654.9	4654.9	4641.4	4637.5	4639.5	4649.1	4660.7	4660.7
7.5°	4762.8	4749.3	4762.8	4755.1	4743.5	4739.7	4737.7	4745.4	4762.8	4762.8
10°	4884.2	4868.7	4876.4	4872.6	4859.1	4853.3	4851.4	4863.0	4878.4	4876.4
12.5°	5017.1	4999.8	5009.4	4997.8	4994.0	4988.2	4988.2	4986.3	4995.9	4988.2
15°	5165.4	5153.9	5157.7	5150.0	5155.8	5152.0	5136.5	5128.8	5132.7	5121.1
17.5°	5340.8	5313.8	5327.3	5323.4	5323.4	5331.1	5306.1	5296.5	5304.2	5292.6
20°	5543.1	5516.1	5521.9	5514.2	5504.5	5512.3	5481.4	5489.1	5494.9	5487.2
22.5°	5764.6	5730.0	5728.0	5731.9	5710.7	5712.6	5691.4	5710.7	5722.3	5701.1
25°	5992.0	5955.4	5980.4	5970.8	5943.8	5949.6	5934.2	5953.5	5963.1	5936.1
27.5°	6232.8	6207.8	6230.9	6236.7	6203.9	6227.1	6203.9	6221.3	6230.9	6190.4
30°	6514.1	6489.1	6510.3	6525.7	6487.2	6523.8	6504.5	6516.1	6518.0	6469.8
32.5°	6820.5	6781.9	6835.9	6843.6	6801.2	6845.5	6820.5	6835.9	6845.5	6780.0
35°	7194.3	7146.1	7207.7	7198.1	7161.5	7198.1	7175.0	7198.1	7221.2	7142.2
37.5°	7596.9	7546.8	7612.3	7595.0	7560.3	7585.4	7571.9	7587.3	7623.9	7539.1
40°	8040.1	7978.4	8067.0	8036.2	8003.5	7999.6	8007.3	8016.9	8065.1	7970.7
42.5°	8514.0	8448.5	8581.5	8533.3	8487.1	8456.2	8481.3	8500.5	8546.8	8440.8
45°	9055.4	8980.3	9153.7	9095.9	9022.7	8959.1	8999.6	9028.5	9095.9	8968.7
47.5°	9652.7	9567.9	9752.9	9735.6	9616.1	9477.4	9569.9	9652.7	9702.8	9548.7
50°	10236.5	10171.0	10413.7	10434.9	10288.5	10093.9	10223.0	10348.2	10361.7	10159.4
52.5°	10783.7	10718.2	11070.7	11203.7	11072.7	10841.5	10978.3	11105.4	11003.3	10741.3
55°	11221.0	11167.1	11616.0	11959.0	12003.3	11812.5	11893.4	11889.6	11554.3	11151.7
57.5°	11327.0	11319.3	11885.7	12612.1	13074.5	13097.6	12937.7	12529.2	11806.7	11265.3
60°	10845.3	10893.5	11671.9	12953.1	14186.2	14698.7	14007.0	12841.4	11519.7	10768.3
62.5°	9404.2	9531.3	10469.6	12537.0	15084.0	16540.6	14864.4	12367.4	10340.5	9359.8
65°	6739.6	6961.1	7997.7	10698.9	15003.1	18159.0	14741.1	10612.2	8074.7	6943.8
67.5°	3057.7	3283.1	4163.6	7325.3	13041.7	17719.7	13010.9	7402.3	4371.7	3294.6
70°	1107.8	1146.4	1429.6	2932.4	8334.9	14118.8	8691.3	2953.6	1520.2	1221.5
72.5°	670.5	676.3	736.0	1050.0	2895.8	8571.8	3019.1	1084.7	751.4	666.6
75°	425.8	421.9	524.1	641.6	1026.9	2892.0	1077.0	641.6	522.1	475.9
77.5°	306.3	316.0	375.7	479.7	647.4	980.7	635.8	458.6	375.7	308.3
80°	229.3	235.1	273.6	373.8	454.7	610.8	404.6	339.1	283.2	192.7
82.5°	165.7	165.7	179.2	271.7	277.4	329.5	219.6	238.9	186.9	136.8
85°	98.3	96.3	111.7	161.8	144.5	121.4	100.2	146.4	117.5	84.8
87.5°	34.7	36.6	34.7	46.2	38.5	32.8	30.8	40.5	32.8	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4570.1
4597.1
4660.7
4757.0
4872.6
4992.0
5123.1
5302.2
5504.5
5722.3
5967.0
6221.3
6498.7
6824.3
7190.4
7591.1
8001.5
8496.7
9034.2
9600.7
10184.5
10749.0
11165.2
11230.7
10679.6
9302.0
6860.9
3246.5
1206.1
678.2
479.7
314.1
198.4
136.8
82.8
27.0
0.0

OF REPORT)