

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: P951110

Luminaire Tested: **GALN-SB5B-840-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951110  
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-SB5B-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

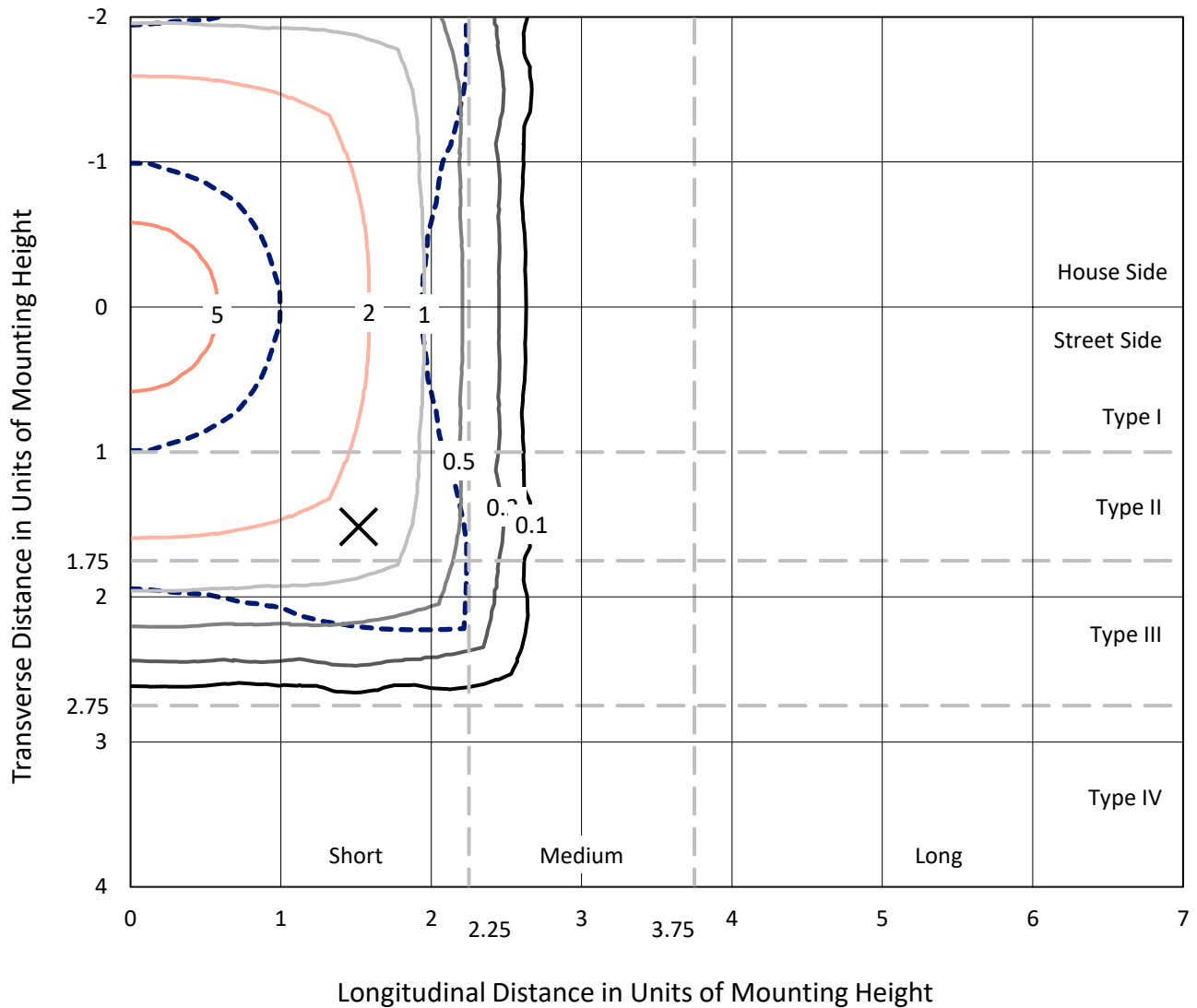
Lumens per Lamp: N/A  
Luminaire Lumens: 28511 lumens  
Efficiency: N/A  
Efficacy: 156.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

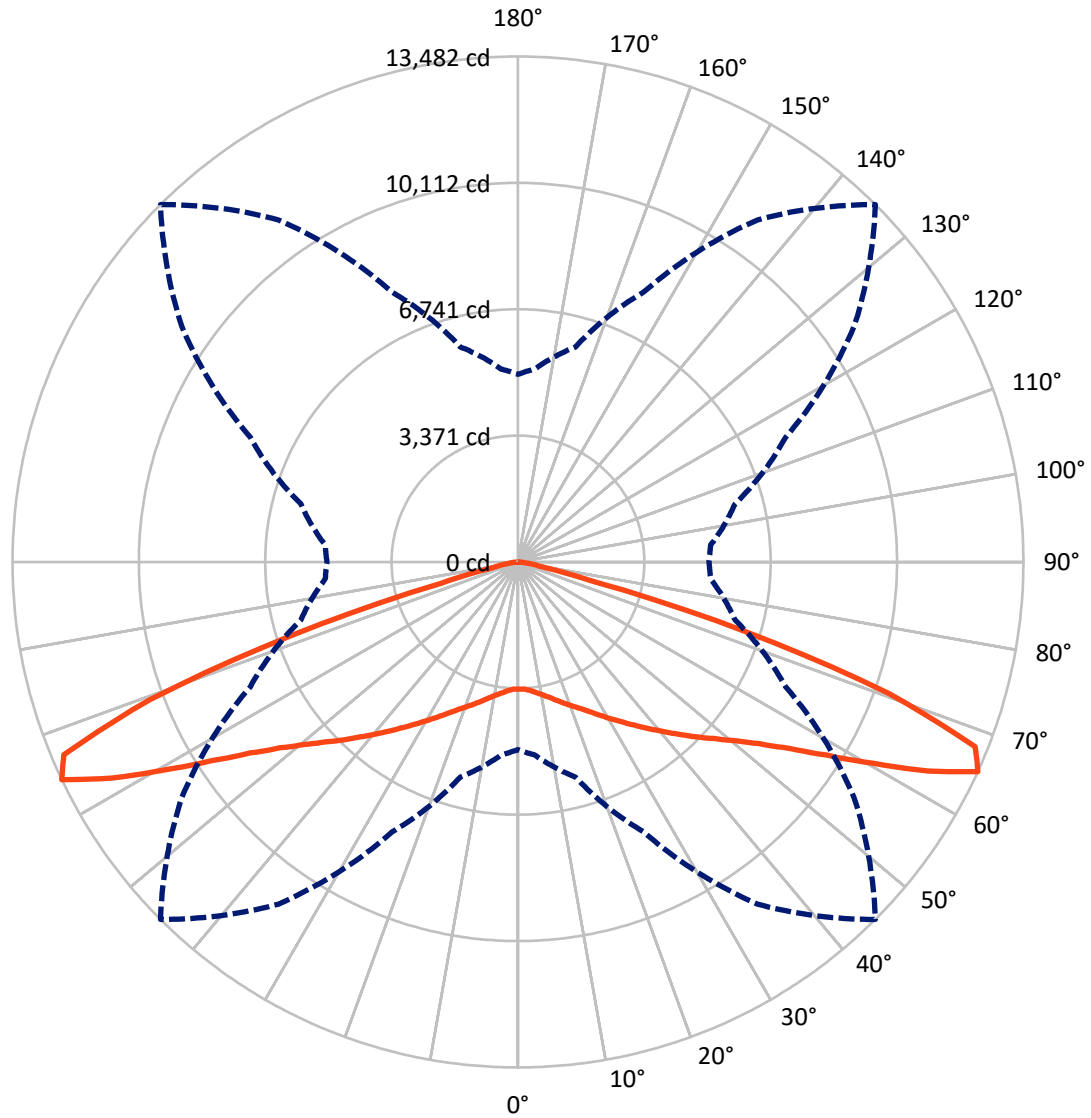
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14255.5	0.0	14255.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14255.5	0.0	14255.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28511.0	0.0	28511.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.9	1.2
10°-20°	1092.7	3.8
20°-30°	2063.1	7.2
30°-40°	3378.3	11.8
40°-50°	5238.1	18.4
50°-60°	7737.7	27.1
60°-70°	7365.6	25.8
70°-80°	1188.5	4.2
80°-90°	112.0	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°	28511.0	100.0
0°-180°	28511.0	100.0



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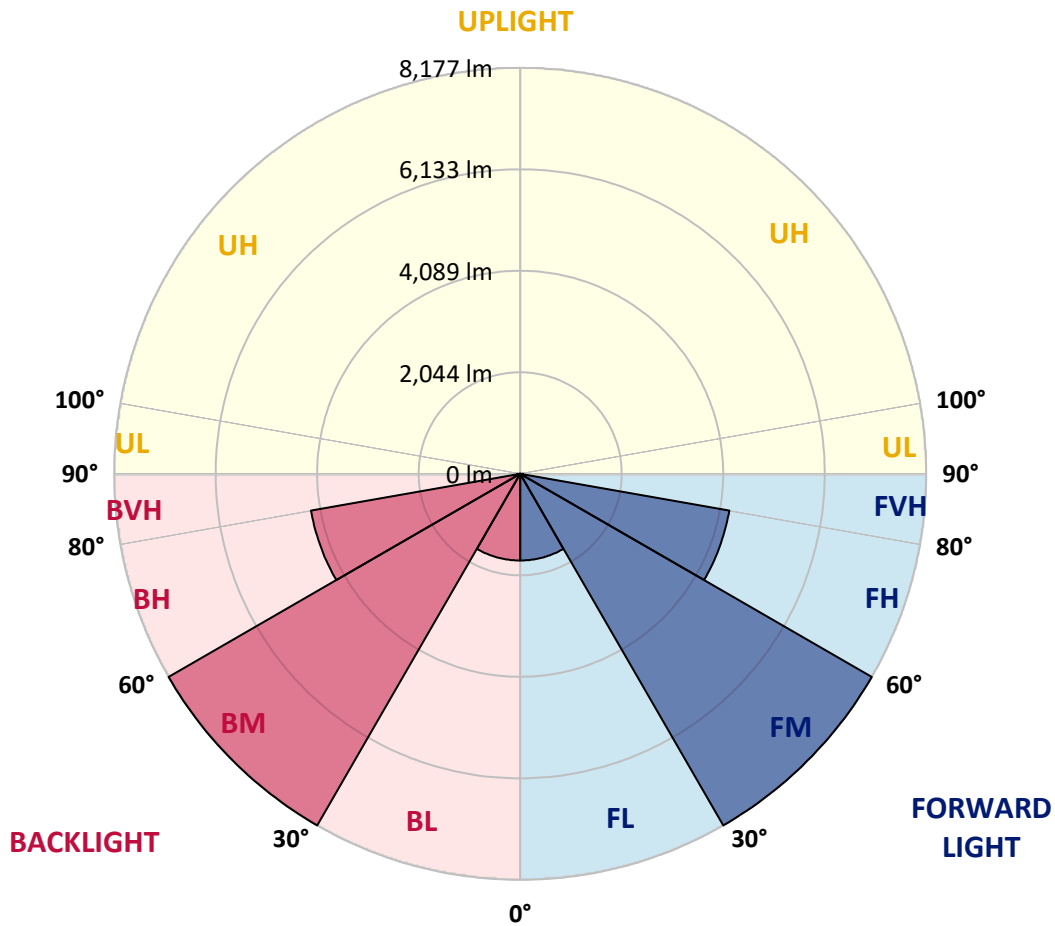
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.3	6.1			
FM (30°-60°)	8177.1	28.7			
FH (60°-80°)	4277.1	15.0			G2/5000
FVH (80°-90°)	56.0	0.2			G1/100
BL (0°-30°)	1745.3	6.1	B3/2500		
BM (30°-60°)	8177.1	28.7	B4/8500		
BH (60°-80°)	4277.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	56.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3393.1	3393.1	3393.1	3393.1	3393.1	3393.1	3393.1	3393.1	3393.1	3393.1
2.5°	3416.0	3404.5	3413.1	3406.0	3400.2	3394.5	3397.4	3407.4	3411.7	3413.1
5°	3461.8	3451.7	3456.0	3456.0	3446.0	3443.2	3444.6	3451.7	3460.3	3460.3
7.5°	3536.1	3526.1	3536.1	3530.4	3521.8	3519.0	3517.5	3523.3	3536.1	3536.1
10°	3626.3	3614.8	3620.5	3617.7	3607.7	3603.4	3601.9	3610.5	3622.0	3620.5
12.5°	3725.0	3712.1	3719.2	3710.7	3707.8	3703.5	3703.5	3702.1	3709.2	3703.5
15°	3835.1	3826.5	3829.4	3823.7	3828.0	3825.1	3813.7	3807.9	3810.8	3802.2
17.5°	3965.3	3945.3	3955.3	3952.4	3952.4	3958.1	3939.5	3932.4	3938.1	3929.5
20°	4115.5	4095.5	4099.8	4094.0	4086.9	4092.6	4069.7	4075.4	4079.7	4074.0
22.5°	4280.0	4254.2	4252.8	4255.7	4239.9	4241.4	4225.6	4239.9	4248.5	4232.8
25°	4448.8	4421.6	4440.2	4433.1	4413.0	4417.3	4405.9	4420.2	4427.3	4407.3
27.5°	4627.6	4609.0	4626.2	4630.5	4606.1	4623.3	4606.1	4619.0	4626.2	4596.1
30°	4836.4	4817.9	4833.6	4845.0	4816.4	4843.6	4829.3	4837.9	4839.3	4803.5
32.5°	5063.9	5035.3	5075.3	5081.1	5049.6	5082.5	5063.9	5075.3	5082.5	5033.9
35°	5341.4	5305.6	5351.4	5344.3	5317.1	5344.3	5327.1	5344.3	5361.4	5302.8
37.5°	5640.4	5603.2	5651.8	5638.9	5613.2	5631.8	5621.8	5633.2	5660.4	5597.5
40°	5969.4	5923.6	5989.4	5966.5	5942.2	5939.3	5945.1	5952.2	5988.0	5917.9
42.5°	6321.3	6272.6	6371.3	6335.6	6301.3	6278.4	6297.0	6311.3	6345.6	6266.9
45°	6723.2	6667.5	6796.2	6753.3	6698.9	6651.7	6681.8	6703.2	6753.3	6658.9
47.5°	7166.7	7103.8	7241.1	7228.2	7139.5	7036.5	7105.2	7166.7	7203.9	7089.4
50°	7600.1	7551.5	7731.7	7747.5	7638.8	7494.3	7590.1	7683.1	7693.1	7542.9
52.5°	8006.4	7957.7	8219.5	8318.2	8221.0	8049.3	8150.9	8245.3	8169.5	7974.9
55°	8331.1	8291.1	8624.4	8879.0	8911.9	8770.3	8830.3	8827.5	8578.6	8279.6
57.5°	8409.8	8404.1	8824.6	9363.9	9707.2	9724.4	9605.7	9302.4	8766.0	8364.0
60°	8052.2	8087.9	8665.8	9617.1	10532.6	10913.1	10399.6	9534.1	8552.8	7994.9
62.5°	6982.2	7076.6	7773.2	9308.1	11199.2	12280.7	11036.1	9182.2	7677.4	6949.3
65°	5003.8	5168.3	5937.9	7943.4	11139.1	13482.3	10944.6	7879.1	5995.1	5155.4
67.5°	2270.2	2437.5	3091.3	5438.7	9682.9	13156.1	9660.0	5495.9	3245.8	2446.1
70°	822.5	851.1	1061.4	2177.2	6188.2	10482.5	6452.9	2192.9	1128.6	906.9
72.5°	497.8	502.1	546.4	779.6	2150.0	6364.2	2241.6	805.4	557.9	494.9
75°	316.1	313.3	389.1	476.3	762.4	2147.1	799.6	476.3	387.7	353.3
77.5°	227.4	234.6	278.9	356.2	480.6	728.1	472.1	340.5	278.9	228.9
80°	170.2	174.5	203.1	277.5	337.6	453.5	300.4	251.8	210.3	143.0
82.5°	123.0	123.0	133.0	201.7	206.0	244.6	163.1	177.4	138.8	101.6
85°	73.0	71.5	83.0	120.2	107.3	90.1	74.4	108.7	87.3	62.9
87.5°	25.7	27.2	25.7	34.3	28.6	24.3	22.9	30.0	24.3	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3393.1
3413.1
3460.3
3531.9
3617.7
3706.4
3803.6
3936.7
4086.9
4248.5
4430.2
4619.0
4825.0
5066.8
5338.5
5636.1
5940.8
6308.4
6707.5
7128.1
7561.5
7980.6
8289.6
8338.3
7929.1
6906.3
5093.9
2410.4
895.5
503.5
356.2
233.2
147.3
101.6
61.5
20.0
0.0

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