

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: P943580

Luminaire Tested: **GALN-SB8A-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943580  
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-SB8A-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

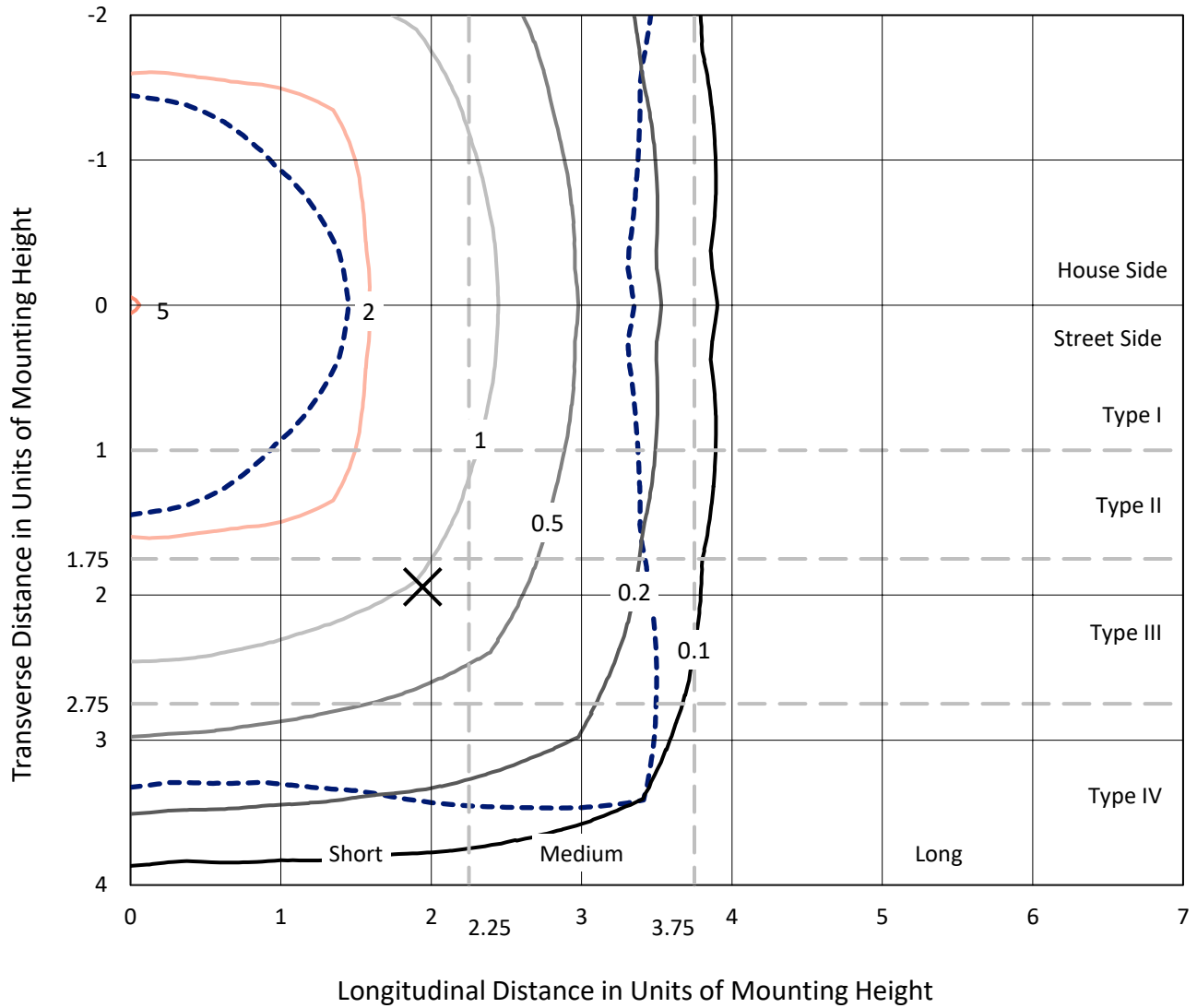
Lumens per Lamp: N/A  
Luminaire Lumens: 35095 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

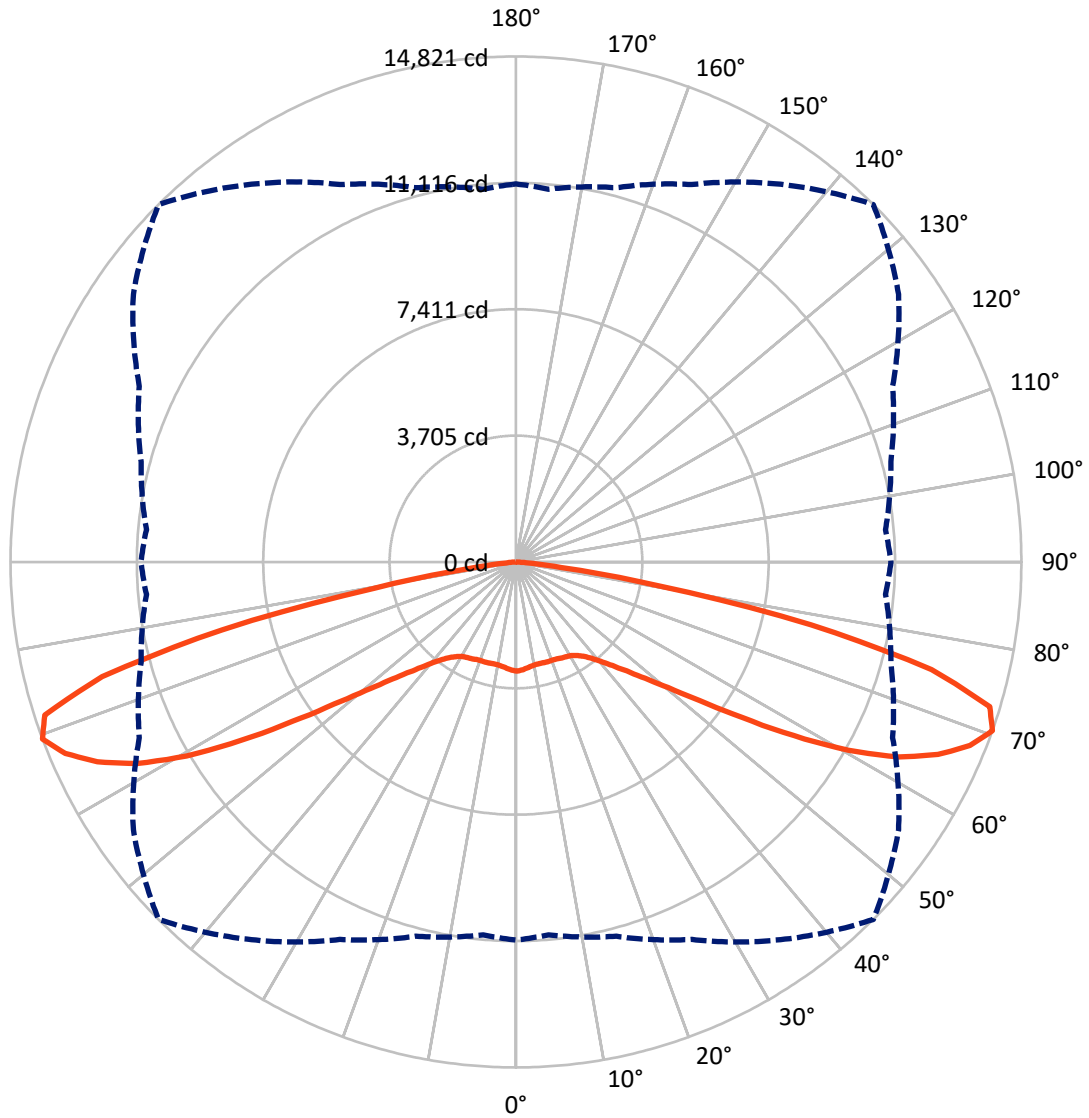
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
<b>House Side</b>	Lumens	17547.5	0.0	17547.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17547.5	0.0	17547.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35095.0	0.0	35095.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.8	0.8
10°-20°	874.4	2.5
20°-30°	1455.2	4.1
30°-40°	2200.7	6.3
40°-50°	3657.0	10.4
50°-60°	6900.5	19.7
60°-70°	11651.9	33.2
70°-80°	7656.5	21.8
80°-90°	401.1	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°	35095.0	100.0
0°-180°	35095.0	100.0

**Coefficient of Utilization**



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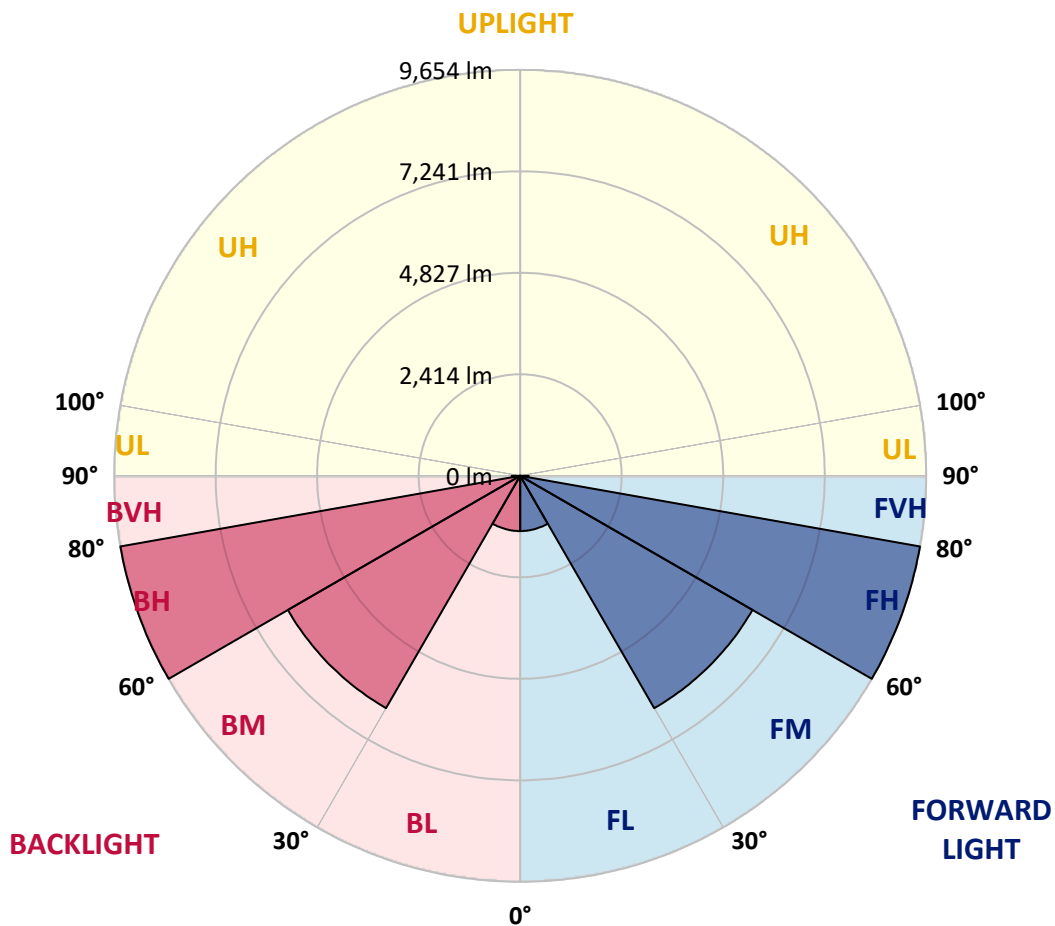
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.7	3.7			
FM (30°-60°)	6379.1	18.2			
FH (60°-80°)	9654.2	27.5			G4/12000
FVH (80°-90°)	200.6	0.6			G2/225
BL (0°-30°)	1313.7	3.7	B3/2500		
BM (30°-60°)	6379.1	18.2	B4/8500		
BH (60°-80°)	9654.2	27.5	B5		G4/12000
BVH (80°-90°)	200.6	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°	3201.4	3201.4	3201.4	3201.4	3201.4	3201.4	3201.4	3201.4	3201.4	3201.4
2.5°	3181.3	3190.4	3186.8	3179.5	3179.5	3174.0	3179.5	3183.1	3188.6	3192.2
5°	3139.3	3146.6	3144.8	3139.3	3141.2	3135.7	3139.3	3144.8	3148.5	3150.3
7.5°	3102.9	3110.2	3106.5	3097.4	3097.4	3091.9	3093.7	3099.2	3104.7	3106.5
10°	3093.7	3101.0	3090.1	3075.5	3070.0	3062.7	3064.6	3070.0	3081.0	3086.4
12.5°	3097.4	3102.9	3091.9	3070.0	3064.6	3057.3	3057.3	3062.7	3077.3	3084.6
15°	3108.3	3113.8	3097.4	3073.7	3068.2	3062.7	3060.9	3068.2	3084.6	3097.4
17.5°	3128.4	3133.9	3108.3	3075.5	3068.2	3070.0	3068.2	3073.7	3099.2	3122.9
20°	3146.6	3150.3	3115.6	3075.5	3068.2	3070.0	3068.2	3079.2	3112.0	3144.8
22.5°	3152.1	3155.8	3122.9	3088.3	3082.8	3084.6	3082.8	3093.7	3124.8	3157.6
25°	3153.9	3159.4	3133.9	3106.5	3115.6	3119.3	3115.6	3117.5	3141.2	3170.4
27.5°	3181.3	3188.6	3164.9	3141.2	3146.6	3144.8	3150.3	3155.8	3174.0	3203.2
30°	3237.9	3243.3	3223.3	3199.5	3195.9	3183.1	3199.5	3217.8	3237.9	3263.4
32.5°	3330.9	3341.8	3316.3	3290.8	3274.3	3267.0	3279.8	3310.8	3338.2	3365.5
35°	3485.9	3493.2	3469.5	3422.1	3392.9	3392.9	3403.9	3444.0	3487.8	3522.4
37.5°	3704.8	3714.0	3672.0	3615.5	3571.7	3571.7	3586.3	3628.2	3693.9	3743.1
40°	3971.2	3983.9	3931.0	3872.7	3830.7	3823.4	3841.6	3889.1	3951.1	4013.1
42.5°	4292.2	4306.8	4237.5	4186.4	4153.6	4153.6	4162.7	4206.5	4263.0	4339.6
45°	4702.6	4728.2	4633.3	4582.2	4551.2	4558.5	4564.0	4602.3	4653.4	4740.9
47.5°	5191.5	5217.0	5116.7	5063.8	5058.3	5093.0	5071.1	5098.5	5125.8	5226.2
50°	5746.0	5789.8	5720.5	5716.9	5727.8	5791.7	5740.6	5755.2	5724.2	5788.0
52.5°	6424.6	6488.5	6475.7	6497.6	6619.8	6751.2	6634.4	6583.3	6466.6	6486.7
55°	7247.3	7344.0	7362.2	7493.6	7770.8	8039.0	7790.9	7584.8	7336.7	7291.1
57.5°	8183.1	8259.7	8347.3	8615.4	9133.5	9609.6	9133.5	8677.4	8287.1	8194.0
60°	9190.0	9284.9	9368.8	9764.6	10534.4	11203.9	10519.8	9795.6	9279.4	9153.5
62.5°	10271.7	10394.0	10452.3	10892.0	11789.4	12588.4	11802.2	10924.8	10352.0	10217.0
65°	11309.7	11410.0	11475.7	11944.5	12801.8	13602.6	12860.2	11995.6	11406.4	11229.4
67.5°	11793.1	11847.8	12008.3	12539.2	13443.9	14357.8	13597.2	12595.7	11937.2	11627.1
70°	11085.3	10974.0	11360.8	12210.8	13520.5	14821.2	13695.7	12185.3	11379.0	10875.5
72.5°	8566.2	8374.6	9045.9	10499.8	12645.0	14525.6	12732.5	10581.9	9463.7	8442.1
75°	4660.7	4443.6	5370.3	7209.0	10083.9	12590.2	10315.5	7415.1	5979.5	4626.0
77.5°	1315.2	1233.1	1981.0	3487.8	6065.3	8839.8	6298.8	3564.4	2349.5	1393.6
80°	403.1	390.4	529.0	1050.7	2575.7	4233.8	2475.4	1063.5	673.1	425.0
82.5°	239.0	218.9	262.7	383.1	656.7	1329.8	638.4	399.5	321.0	215.2
85°	136.8	127.7	155.1	186.1	220.7	282.7	184.2	189.7	171.5	114.9
87.5°	56.5	51.1	60.2	58.4	51.1	65.7	49.3	58.4	69.3	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3201.4
3190.4
3150.3
3106.5
3086.4
3086.4
3099.2
3122.9
3146.6
3157.6
3168.5
3195.9
3257.9
3354.6
3509.7
3724.9
3993.0
4334.2
4737.3
5197.0
5749.7
6419.2
7220.0
8128.4
9044.1
10107.6
11141.9
11630.7
10995.9
8695.7
4927.0
1548.7
448.7
233.5
120.4
42.0
0.0

OF REPORT)