

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: P951571

Luminaire Tested: **GALN-SB5C-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951571  
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-SB5C-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

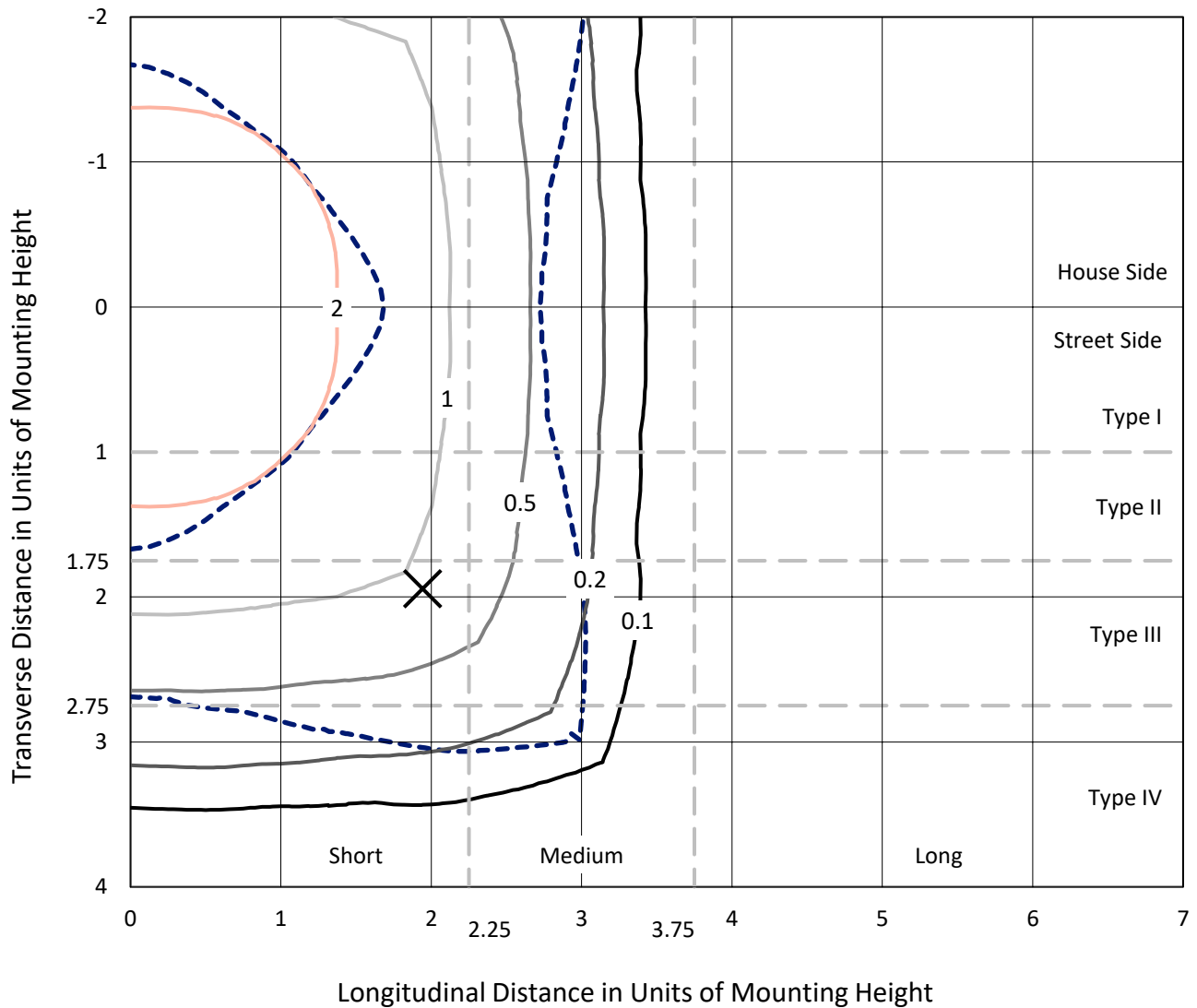
Lumens per Lamp: N/A  
Luminaire Lumens: 28709 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

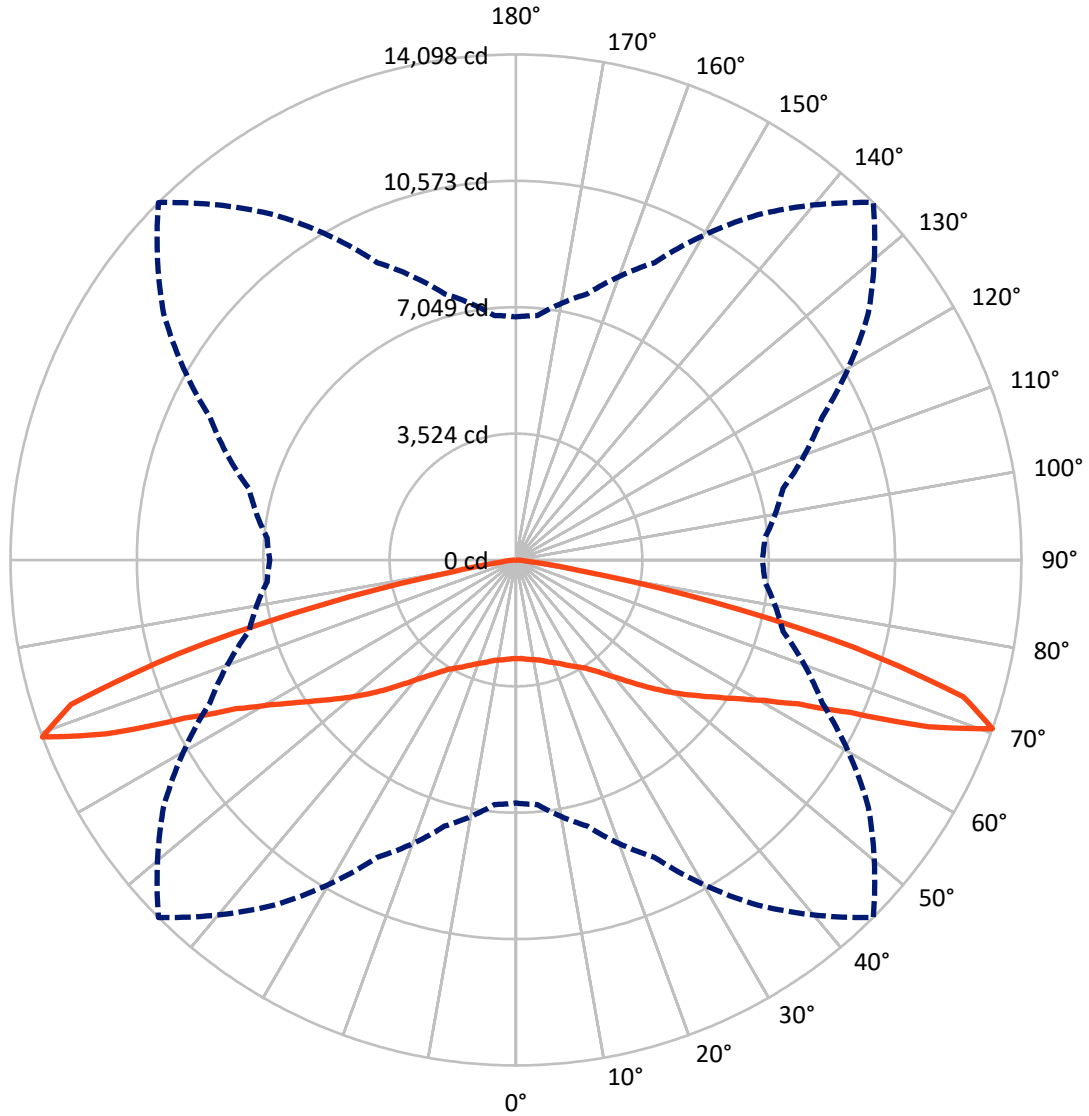
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	14354.5	0.0	14354.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14354.5	0.0	14354.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28709.0	0.0	28709.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	0.9
10°-20°	828.5	2.9
20°-30°	1480.5	5.2
30°-40°	2399.9	8.4
40°-50°	3909.1	13.6
50°-60°	5960.0	20.8
60°-70°	8866.6	30.9
70°-80°	4832.6	16.8
80°-90°	164.6	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°	28709.0	100.0
0°-180°	28709.0	100.0



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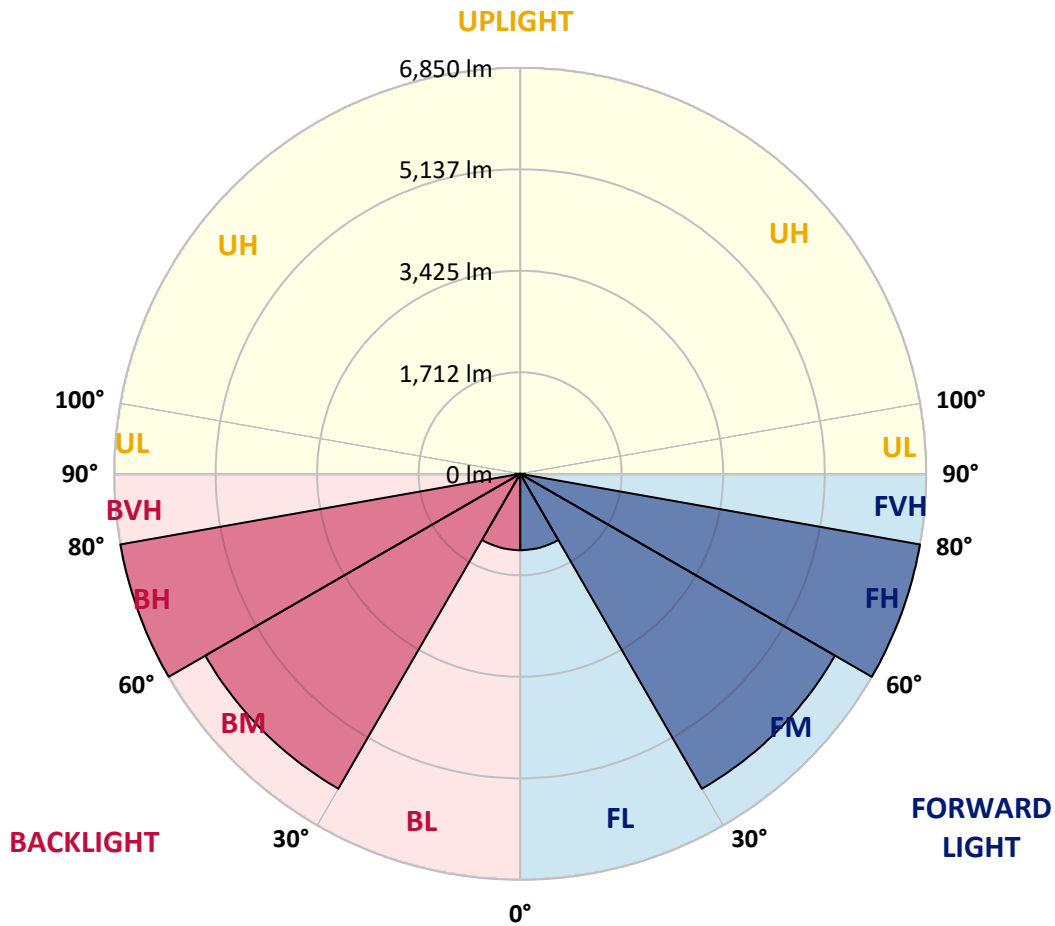
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.1	4.5			
FM (30°-60°)	6134.5	21.4			
FH (60°-80°)	6849.6	23.9			G3/7500
FVH (80°-90°)	82.3	0.3			G1/100
BL (0°-30°)	1288.1	4.5	B3/2500		
BM (30°-60°)	6134.5	21.4	B4/8500		
BH (60°-80°)	6849.6	23.9	B5		G3/7500
BVH (80°-90°)	82.3	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0	2750.0
2.5°	2763.0	2765.9	2760.1	2757.2	2754.3	2750.0	2751.5	2758.7	2764.4	2763.0
5°	2786.1	2788.9	2784.6	2783.2	2777.4	2776.0	2776.0	2783.2	2787.5	2784.6
7.5°	2812.0	2816.3	2809.1	2807.7	2804.8	2801.9	2800.5	2807.7	2812.0	2812.0
10°	2836.5	2840.8	2835.1	2830.7	2827.9	2827.9	2825.0	2830.7	2837.9	2836.5
12.5°	2862.4	2865.3	2859.6	2856.7	2856.7	2861.0	2856.7	2859.6	2865.3	2862.4
15°	2894.2	2895.6	2894.2	2898.5	2905.7	2920.1	2907.1	2904.2	2907.1	2899.9
17.5°	2937.4	2940.3	2946.0	2956.1	2966.2	2992.2	2969.1	2961.9	2961.9	2947.5
20°	2990.7	2995.0	3003.7	3021.0	3034.0	3058.5	3035.4	3025.3	3021.0	3002.3
22.5°	3046.9	3054.1	3067.1	3090.2	3113.2	3136.3	3113.2	3095.9	3083.0	3058.5
25°	3111.8	3120.4	3140.6	3178.1	3209.8	3243.0	3215.6	3181.0	3155.0	3120.4
27.5°	3204.0	3214.1	3238.6	3284.8	3325.1	3353.9	3328.0	3283.3	3247.3	3205.5
30°	3333.8	3343.8	3372.7	3421.7	3449.1	3467.8	3450.5	3415.9	3372.7	3325.1
32.5°	3500.9	3513.9	3545.6	3591.8	3597.5	3600.4	3594.6	3577.3	3545.6	3488.0
35°	3712.8	3727.2	3763.3	3800.7	3795.0	3800.7	3792.1	3786.3	3763.3	3697.0
37.5°	3972.3	3989.6	4027.0	4055.9	4041.4	4034.2	4035.7	4037.1	4024.1	3950.6
40°	4273.5	4296.6	4323.9	4354.2	4329.7	4308.1	4322.5	4334.0	4322.5	4247.5
42.5°	4583.4	4616.5	4645.4	4688.6	4668.4	4641.0	4661.2	4674.2	4649.7	4569.0
45°	4927.8	4959.6	4997.0	5061.9	5047.5	5018.7	5047.5	5050.4	5008.6	4913.4
47.5°	5283.9	5317.0	5373.2	5459.7	5453.9	5422.2	5459.7	5439.5	5386.2	5272.3
50°	5621.1	5667.2	5753.7	5874.8	5886.3	5847.4	5897.9	5858.9	5769.6	5626.9
52.5°	5938.2	5987.2	6124.1	6288.4	6330.2	6279.8	6347.5	6279.8	6145.8	5962.7
55°	6271.2	6325.9	6488.8	6703.5	6787.1	6749.7	6813.1	6710.8	6520.5	6298.5
57.5°	6663.2	6696.3	6890.9	7146.0	7287.3	7295.9	7324.8	7151.8	6921.2	6669.0
60°	7088.4	7134.5	7346.4	7651.9	7875.3	7947.4	7917.1	7660.6	7392.5	7102.8
62.5°	7633.2	7683.6	7937.3	8303.4	8656.5	8835.2	8717.1	8345.2	8013.7	7666.3
65°	8084.3	8140.5	8598.9	9251.8	9894.6	10253.5	9956.6	9272.0	8675.3	8185.2
67.5°	7757.1	7826.3	8545.5	9744.7	11343.1	12414.0	11397.9	9891.7	8722.8	8058.4
70°	6779.9	6844.8	7683.6	9149.5	11751.0	14097.5	11996.0	9419.0	7711.0	6967.3
72.5°	4501.2	4710.2	5559.1	7317.5	10492.8	13045.3	10596.5	7169.1	5157.0	4491.1
75°	1493.2	1660.4	2239.8	3793.5	7027.8	9756.2	6690.6	3356.8	1774.3	1277.0
77.5°	376.2	433.8	598.1	1085.3	2803.4	5554.8	2523.7	886.4	482.8	337.3
80°	183.0	201.8	288.3	361.8	701.9	1765.6	658.7	340.1	227.7	175.8
82.5°	100.9	102.3	162.9	204.7	260.9	456.9	271.0	198.9	131.2	106.7
85°	62.0	60.5	86.5	109.5	109.5	162.9	129.7	109.5	74.9	66.3
87.5°	24.5	24.5	31.7	34.6	30.3	41.8	33.2	36.0	28.8	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2750.0
2764.4
2786.1
2812.0
2836.5
2861.0
2899.9
2947.5
3002.3
3057.0
3119.0
3204.0
3325.1
3489.4
3697.0
3950.6
4247.5
4574.7
4923.5
5265.1
5624.0
5945.4
6268.3
6634.4
7056.7
7605.8
8104.5
7958.9
6867.9
4345.6
1207.8
301.2
161.4
106.7
69.2
28.8
0.0

OF REPORT)