

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: P950500

Luminaire Tested: **GALN-SB4D-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950500  
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-SB4D-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

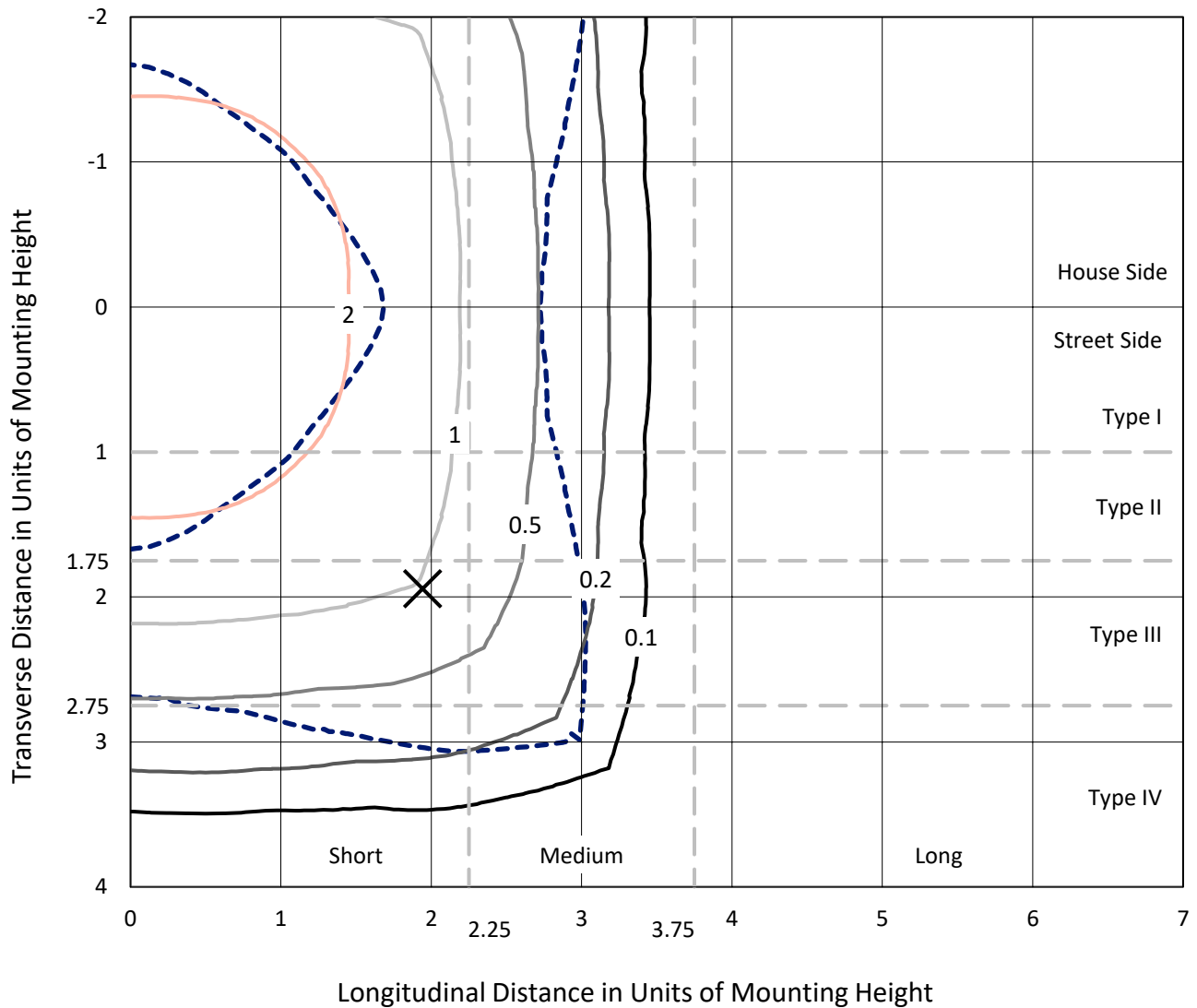
Lumens per Lamp: N/A  
Luminaire Lumens: 30950 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

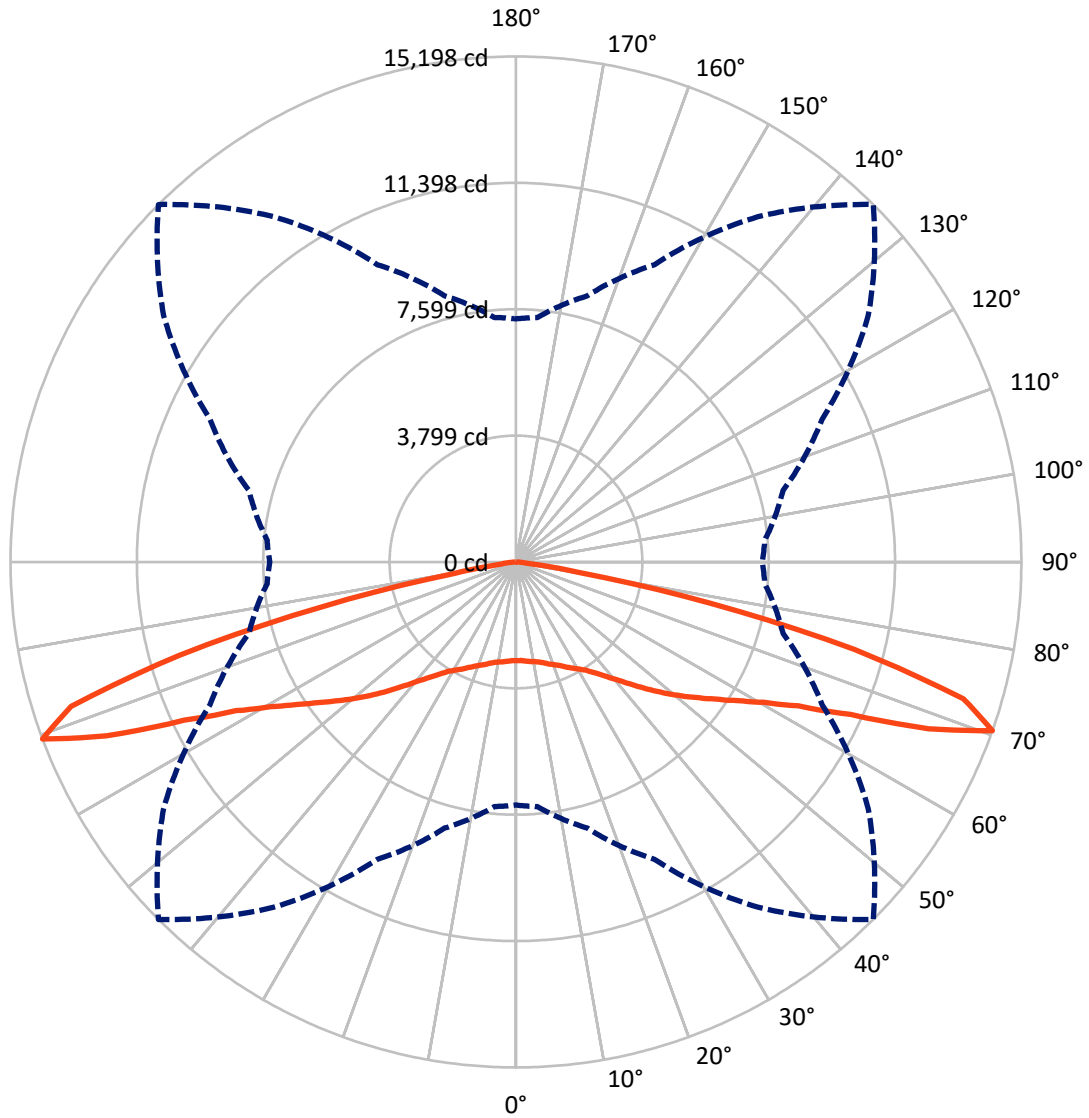
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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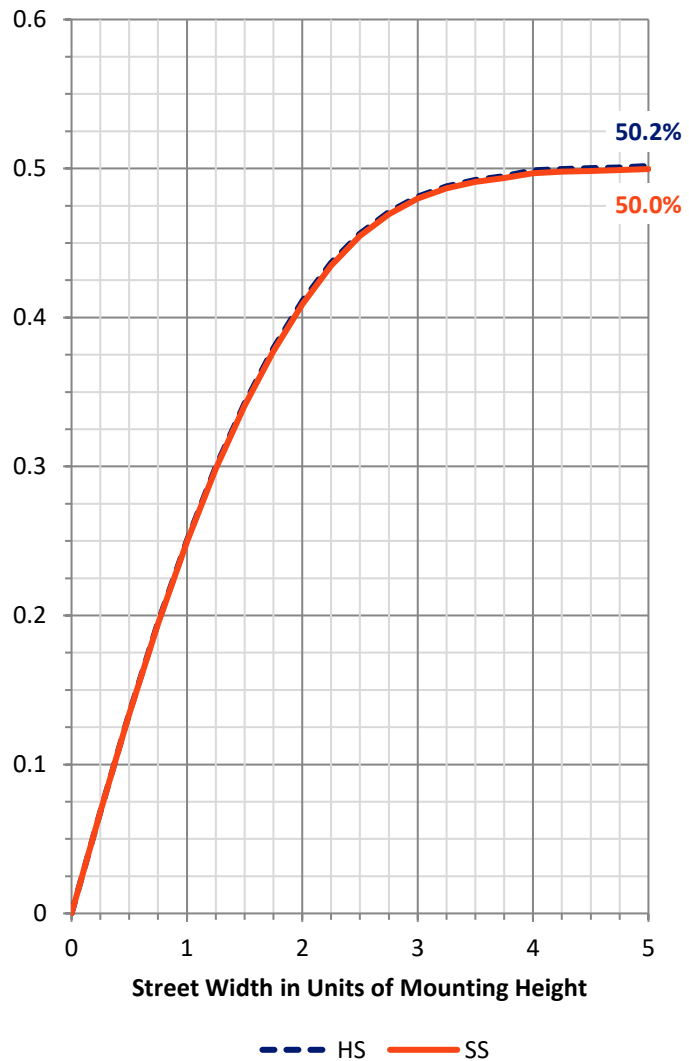
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15475.0	0.0	15475.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15475.0	0.0	15475.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30950.0	0.0	30950.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.0	0.9
10°-20°	893.1	2.9
20°-30°	1596.1	5.2
30°-40°	2587.3	8.4
40°-50°	4214.2	13.6
50°-60°	6425.3	20.8
60°-70°	9558.8	30.9
70°-80°	5209.8	16.8
80°-90°	177.4	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°	30950.0	100.0
0°-180°	30950.0	100.0



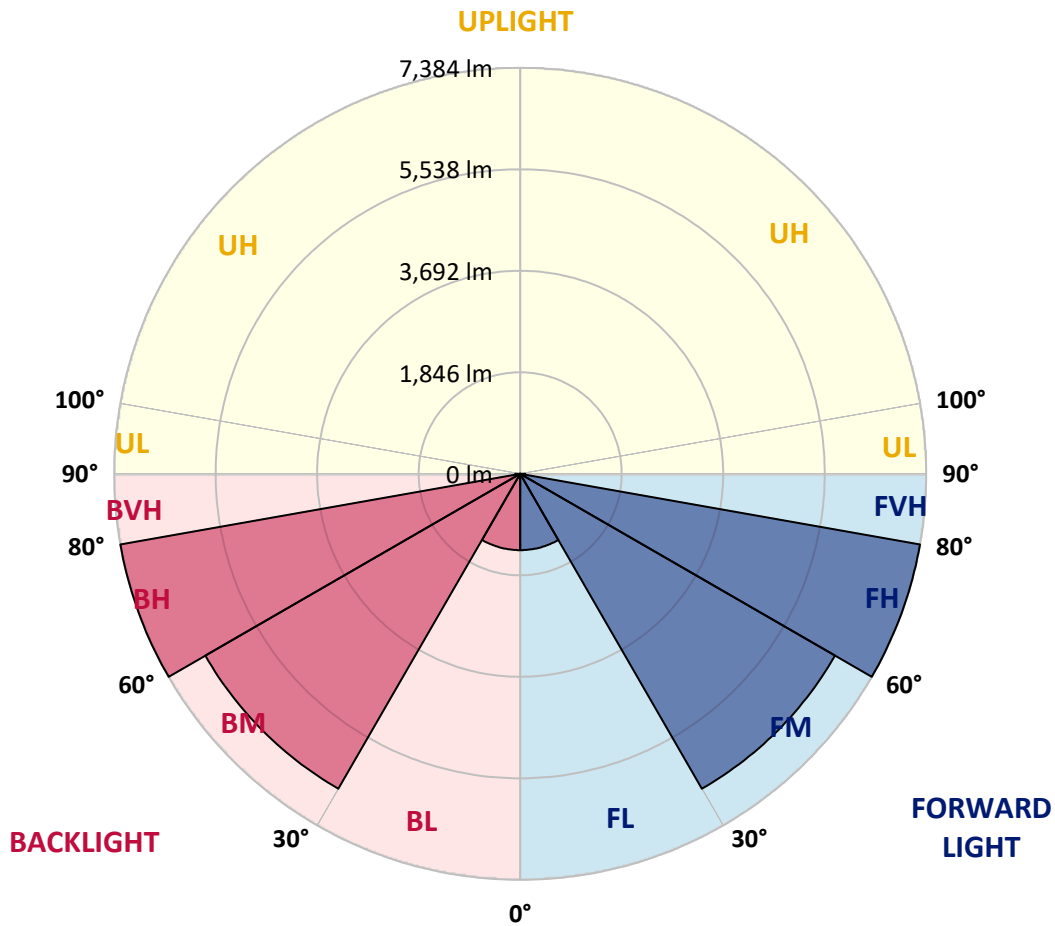
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1388.6	4.5			
FM	(30°-60°)	6613.4	21.4			
FH	(60°-80°)	7384.3	23.9			G3/7500
FVH	(80°-90°)	88.7	0.3			G1/100
BL	(0°-30°)	1388.6	4.5	B3/2500		
BM	(30°-60°)	6613.4	21.4	B4/8500		
BH	(60°-80°)	7384.3	23.9	B5		G3/7500
BVH	(80°-90°)	88.7	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	2978.7	2981.8	2975.6	2972.5	2969.4	2964.7	2966.2	2974.0	2980.2	2978.7
5°	3003.5	3006.6	3002.0	3000.4	2994.2	2992.7	2992.7	3000.4	3005.1	3002.0
7.5°	3031.5	3036.2	3028.4	3026.8	3023.7	3020.6	3019.1	3026.8	3031.5	3031.5
10°	3057.9	3062.6	3056.4	3051.7	3048.6	3048.6	3045.5	3051.7	3059.5	3057.9
12.5°	3085.9	3089.0	3082.8	3079.7	3079.7	3084.3	3079.7	3082.8	3089.0	3085.9
15°	3120.1	3121.6	3120.1	3124.7	3132.5	3148.0	3134.1	3130.9	3134.1	3126.3
17.5°	3166.7	3169.8	3176.0	3186.9	3197.8	3225.7	3200.9	3193.1	3193.1	3177.6
20°	3224.2	3228.8	3238.2	3256.8	3270.8	3297.2	3272.3	3261.5	3256.8	3236.6
22.5°	3284.8	3292.5	3306.5	3331.4	3356.3	3381.1	3356.3	3337.6	3323.6	3297.2
25°	3354.7	3364.0	3385.8	3426.2	3460.4	3496.1	3466.6	3429.3	3401.3	3364.0
27.5°	3454.1	3465.0	3491.4	3541.2	3584.7	3615.7	3587.8	3539.6	3500.8	3455.7
30°	3594.0	3604.9	3635.9	3688.8	3718.3	3738.5	3719.8	3682.6	3635.9	3584.7
32.5°	3774.2	3788.2	3822.4	3872.1	3878.3	3881.4	3875.2	3856.6	3822.4	3760.2
35°	4002.6	4018.2	4057.0	4097.4	4091.2	4097.4	4088.1	4081.9	4057.0	3985.5
37.5°	4282.3	4301.0	4341.4	4372.5	4356.9	4349.1	4350.7	4352.3	4338.3	4259.0
40°	4607.1	4631.9	4661.5	4694.1	4667.7	4644.4	4659.9	4672.3	4659.9	4579.1
42.5°	4941.1	4976.9	5008.0	5054.6	5032.8	5003.3	5025.1	5039.0	5012.6	4925.6
45°	5312.5	5346.7	5387.1	5457.0	5441.5	5410.4	5441.5	5444.6	5399.5	5297.0
47.5°	5696.3	5732.0	5792.6	5885.9	5879.7	5845.5	5885.9	5864.1	5806.6	5683.9
50°	6059.9	6109.6	6202.9	6333.4	6345.8	6303.9	6358.2	6316.3	6219.9	6066.1
52.5°	6401.7	6454.6	6602.2	6779.3	6824.4	6770.0	6843.0	6770.0	6625.5	6428.2
55°	6760.7	6819.7	6995.3	7226.8	7316.9	7276.5	7344.9	7234.6	7029.5	6790.2
57.5°	7183.3	7219.1	7428.8	7703.8	7856.1	7865.4	7896.5	7710.1	7461.4	7189.5
60°	7641.7	7691.4	7919.8	8249.2	8490.1	8567.8	8535.1	8258.6	7969.5	7657.2
62.5°	8229.0	8283.4	8556.9	8951.6	9332.2	9524.9	9397.5	8996.6	8639.2	8264.8
65°	8715.4	8776.0	9270.1	9974.0	10667.0	11053.9	10733.8	9995.7	9352.4	8824.1
67.5°	8362.7	8437.2	9212.6	10505.4	12228.6	13383.1	12287.6	10663.9	9403.7	8687.4
70°	7309.2	7379.1	8283.4	9863.7	12668.3	15197.9	12932.4	10154.2	8312.9	7511.2
72.5°	4852.6	5077.9	5993.1	7888.7	11311.8	14063.6	11423.7	7728.7	5559.6	4841.7
75°	1609.8	1790.0	2414.6	4089.7	7576.4	10517.8	7212.8	3618.8	1912.8	1376.7
77.5°	405.5	467.7	644.8	1170.0	3022.2	5988.4	2720.7	955.6	520.5	363.6
80°	197.3	217.5	310.8	390.0	756.7	1903.4	710.1	366.7	245.5	189.6
82.5°	108.8	110.3	175.6	220.6	281.2	492.6	292.1	214.4	141.4	115.0
85°	66.8	65.3	93.2	118.1	118.1	175.6	139.8	118.1	80.8	71.5
87.5°	26.4	26.4	34.2	37.3	32.6	45.1	35.7	38.8	31.1	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2964.7
2980.2
3003.5
3031.5
3057.9
3084.3
3126.3
3177.6
3236.6
3295.7
3362.5
3454.1
3584.7
3761.8
3985.5
4259.0
4579.1
4931.8
5307.9
5676.1
6063.0
6409.5
6757.6
7152.2
7607.5
8199.5
8737.1
8580.2
7404.0
4684.8
1302.1
324.7
174.0
115.0
74.6
31.1
0.0

OF REPORT)