

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: P950144

Luminaire Tested: **GALN-SB4C-940-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950144
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-SB4C-940-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22791 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

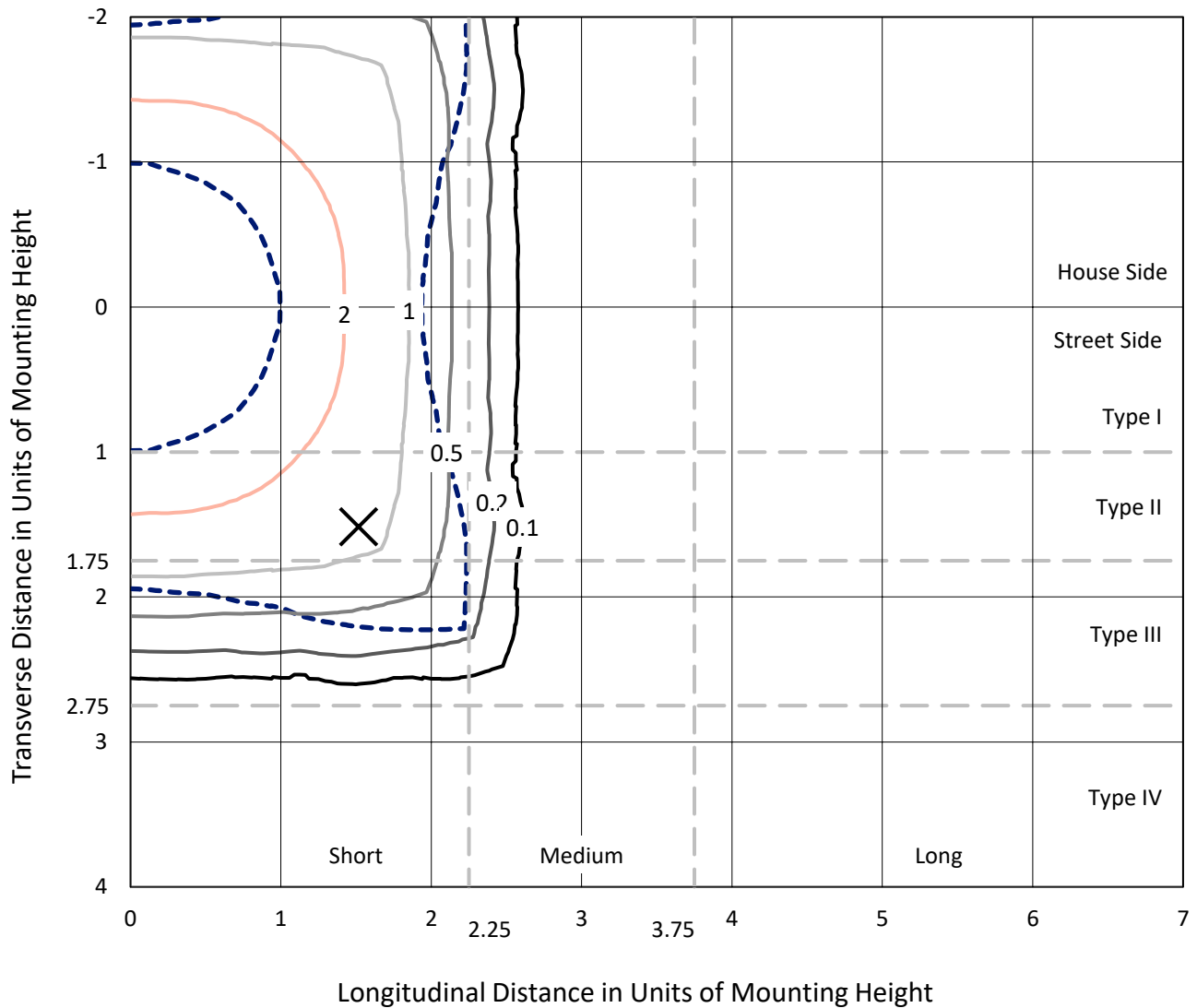
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

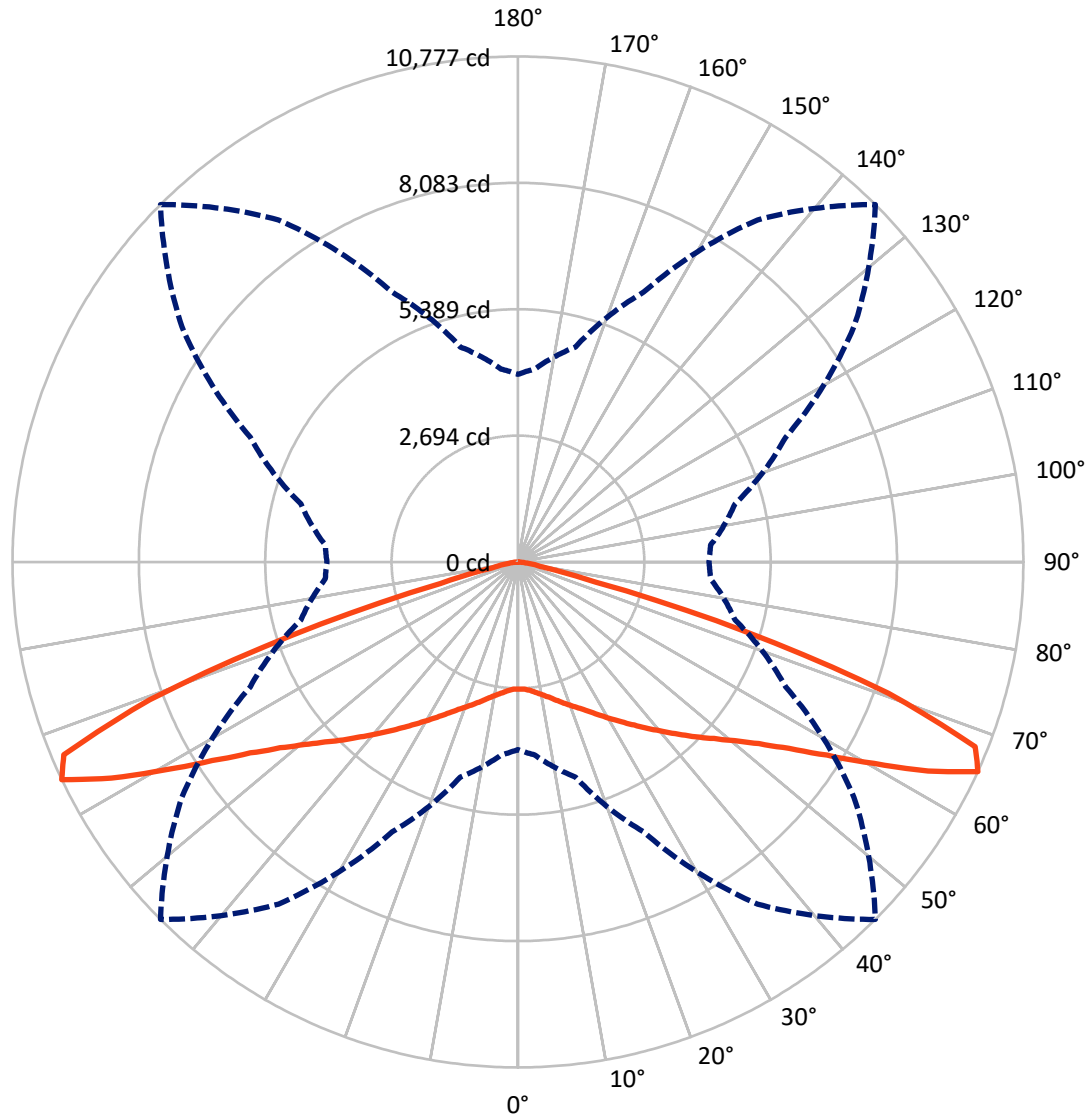
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11395.5	0.0	11395.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11395.5	0.0	11395.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22791.0	0.0	22791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	1.2
10°-20°	873.5	3.8
20°-30°	1649.2	7.2
30°-40°	2700.5	11.8
40°-50°	4187.2	18.4
50°-60°	6185.4	27.1
60°-70°	5887.9	25.8
70°-80°	950.1	4.2
80°-90°	89.6	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°	22791.0	100.0
0°-180°	22791.0	100.0

Coefficient of Utilization



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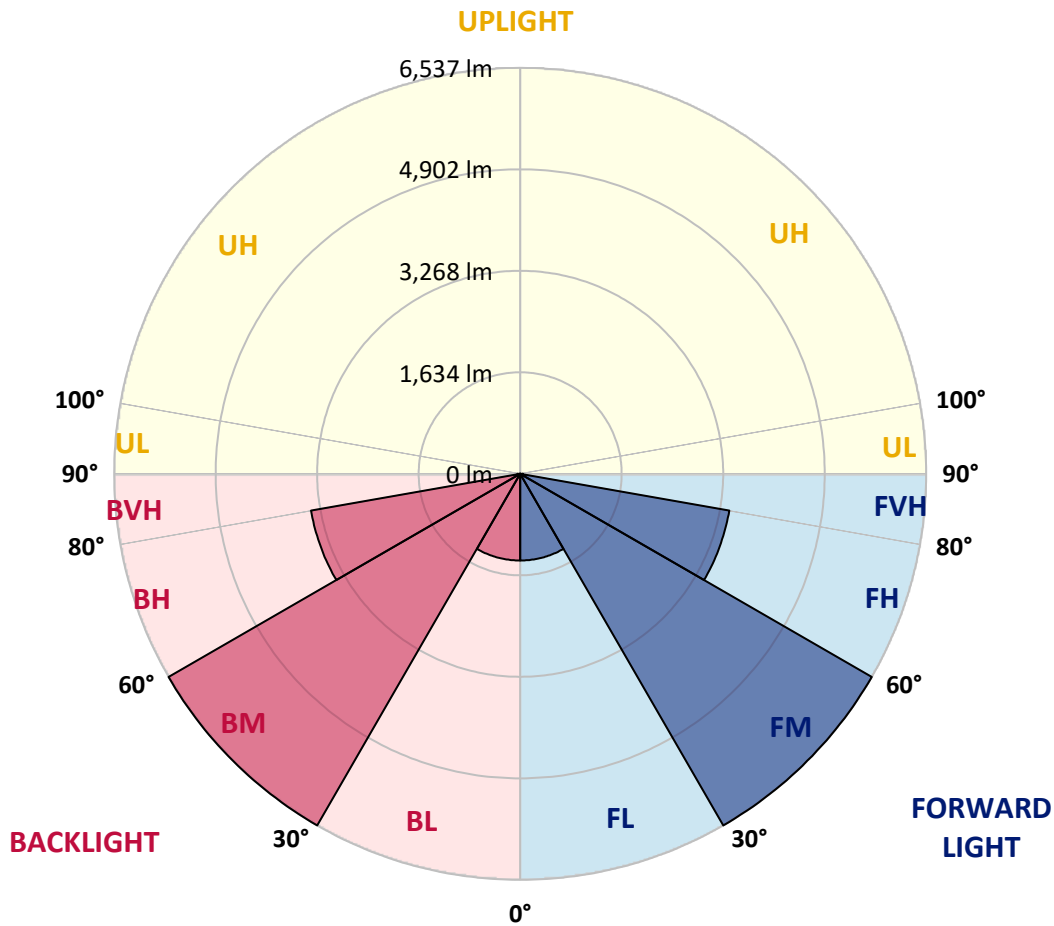
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.2	6.1			
FM (30°-60°)	6536.5	28.7			
FH (60°-80°)	3419.0	15.0			G2/5000
FVH (80°-90°)	44.8	0.2			G1/100
BL (0°-30°)	1395.2	6.1	B3/2500		
BM (30°-60°)	6536.5	28.7	B4/8500		
BH (60°-80°)	3419.0	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.8	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°	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4
2.5°	2730.7	2721.5	2728.4	2722.6	2718.1	2713.5	2715.8	2723.8	2727.2	2728.4
5°	2767.2	2759.2	2762.7	2762.7	2754.7	2752.4	2753.5	2759.2	2766.1	2766.1
7.5°	2826.7	2818.7	2826.7	2822.1	2815.3	2813.0	2811.8	2816.4	2826.7	2826.7
10°	2898.7	2889.6	2894.2	2891.9	2883.9	2880.4	2879.3	2886.2	2895.3	2894.2
12.5°	2977.6	2967.4	2973.1	2966.2	2963.9	2960.5	2960.5	2959.4	2965.1	2960.5
15°	3065.7	3058.8	3061.1	3056.5	3060.0	3057.7	3048.5	3044.0	3046.3	3039.4
17.5°	3169.8	3153.7	3161.7	3159.5	3159.5	3164.0	3149.2	3143.5	3148.0	3141.2
20°	3289.8	3273.8	3277.2	3272.7	3266.9	3271.5	3253.2	3257.8	3261.2	3256.7
22.5°	3421.3	3400.7	3399.6	3401.9	3389.3	3390.4	3377.9	3389.3	3396.2	3383.6
25°	3556.3	3534.5	3549.4	3543.7	3527.7	3531.1	3521.9	3533.4	3539.1	3523.1
27.5°	3699.2	3684.3	3698.0	3701.5	3682.0	3695.8	3682.0	3692.3	3698.0	3674.0
30°	3866.1	3851.3	3863.9	3873.0	3850.1	3871.9	3860.4	3867.3	3868.4	3839.8
32.5°	4048.0	4025.1	4057.1	4061.7	4036.5	4062.8	4048.0	4057.1	4062.8	4023.9
35°	4269.8	4241.2	4277.8	4272.1	4250.4	4272.1	4258.4	4272.1	4285.8	4238.9
37.5°	4508.8	4479.0	4517.9	4507.6	4487.1	4501.9	4493.9	4503.1	4524.8	4474.5
40°	4771.8	4735.2	4787.8	4769.5	4750.1	4747.8	4752.3	4758.1	4786.6	4730.6
42.5°	5053.1	5014.2	5093.1	5064.5	5037.1	5018.8	5033.6	5045.1	5072.5	5009.6
45°	5374.4	5329.8	5432.7	5398.4	5355.0	5317.2	5341.2	5358.4	5398.4	5322.9
47.5°	5728.9	5678.6	5788.3	5778.1	5707.2	5624.8	5679.7	5728.9	5758.6	5667.1
50°	6075.4	6036.5	6180.6	6193.1	6106.2	5990.7	6067.4	6141.7	6149.7	6029.6
52.5°	6400.1	6361.2	6570.5	6649.4	6571.6	6434.4	6515.6	6591.1	6530.5	6375.0
55°	6659.7	6627.7	6894.1	7097.6	7123.9	7010.7	7058.8	7056.5	6857.5	6618.5
57.5°	6722.6	6718.0	7054.2	7485.3	7759.7	7773.4	7678.5	7436.1	7007.3	6686.0
60°	6436.7	6465.3	6927.3	7687.7	8419.5	8723.7	8313.2	7621.4	6836.9	6391.0
62.5°	5581.4	5656.8	6213.7	7440.7	8952.4	9816.9	8822.0	7340.1	6137.1	5555.1
65°	3999.9	4131.4	4746.6	6349.8	8904.4	10777.4	8748.8	6298.3	4792.4	4121.1
67.5°	1814.7	1948.5	2471.1	4347.5	7740.3	10516.7	7722.0	4393.3	2594.6	1955.4
70°	657.5	680.4	848.5	1740.4	4946.7	8379.5	5158.3	1753.0	902.2	725.0
72.5°	397.9	401.4	436.8	623.2	1718.7	5087.4	1791.8	643.8	446.0	395.6
75°	252.7	250.4	311.0	380.8	609.5	1716.4	639.2	380.8	309.9	282.4
77.5°	181.8	187.5	223.0	284.7	384.2	582.0	377.4	272.2	223.0	183.0
80°	136.1	139.5	162.4	221.8	269.9	362.5	240.1	201.3	168.1	114.3
82.5°	98.3	98.3	106.3	161.2	164.7	195.5	130.4	141.8	110.9	81.2
85°	58.3	57.2	66.3	96.1	85.8	72.0	59.5	86.9	69.8	50.3
87.5°	20.6	21.7	20.6	27.4	22.9	19.4	18.3	24.0	19.4	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2712.4
2728.4
2766.1
2823.3
2891.9
2962.8
3040.5
3146.9
3266.9
3396.2
3541.4
3692.3
3857.0
4050.2
4267.5
4505.3
4748.9
5042.8
5361.8
5698.0
6044.5
6379.5
6626.5
6665.4
6338.4
5520.8
4072.0
1926.8
715.8
402.5
284.7
186.4
117.8
81.2
49.2
16.0
0.0

OF REPORT)