

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: P944470

Luminaire Tested: **GALN-SB9B-940-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944470  
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-SB9B-940-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

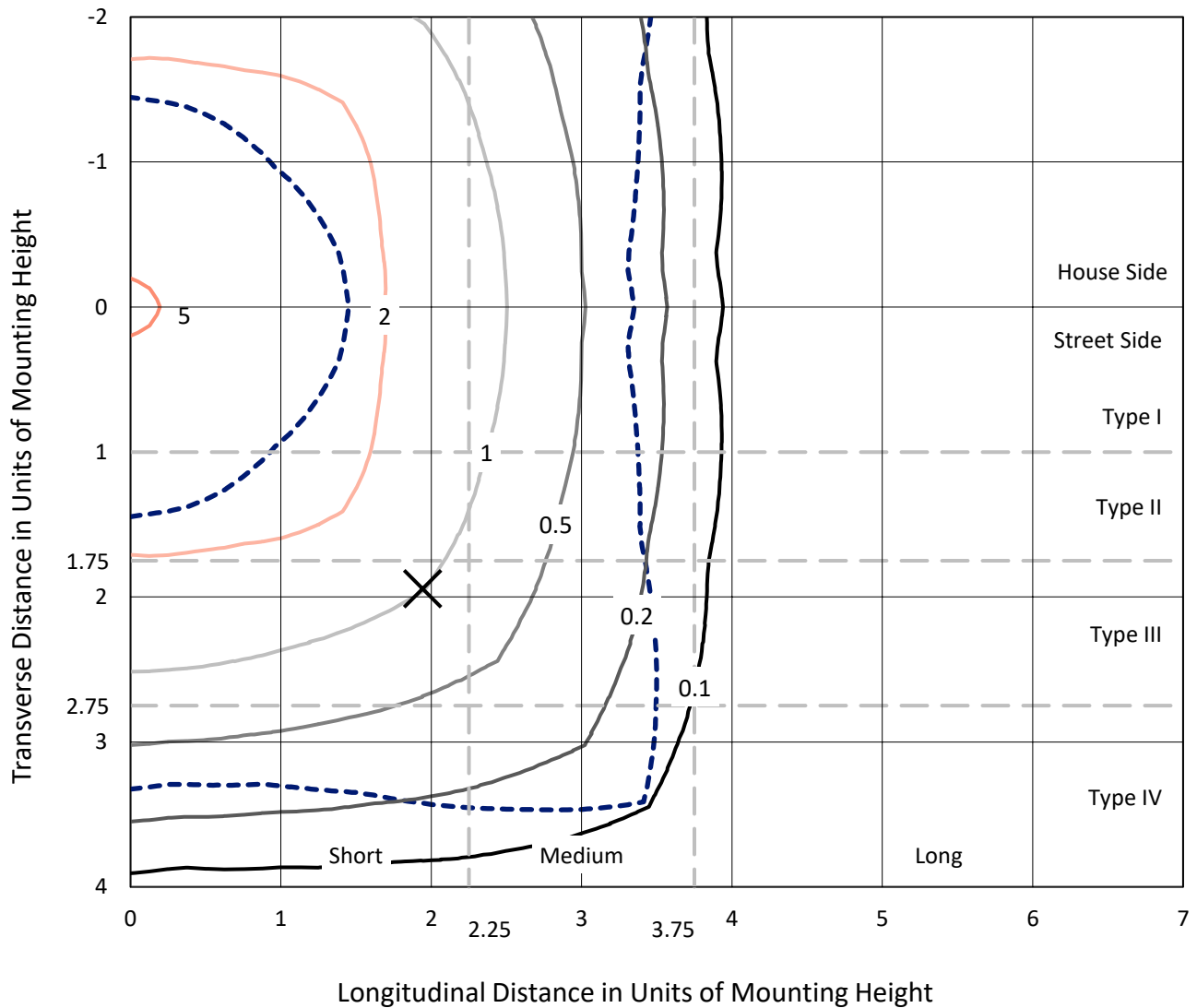
Lumens per Lamp: N/A  
Luminaire Lumens: 37594 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

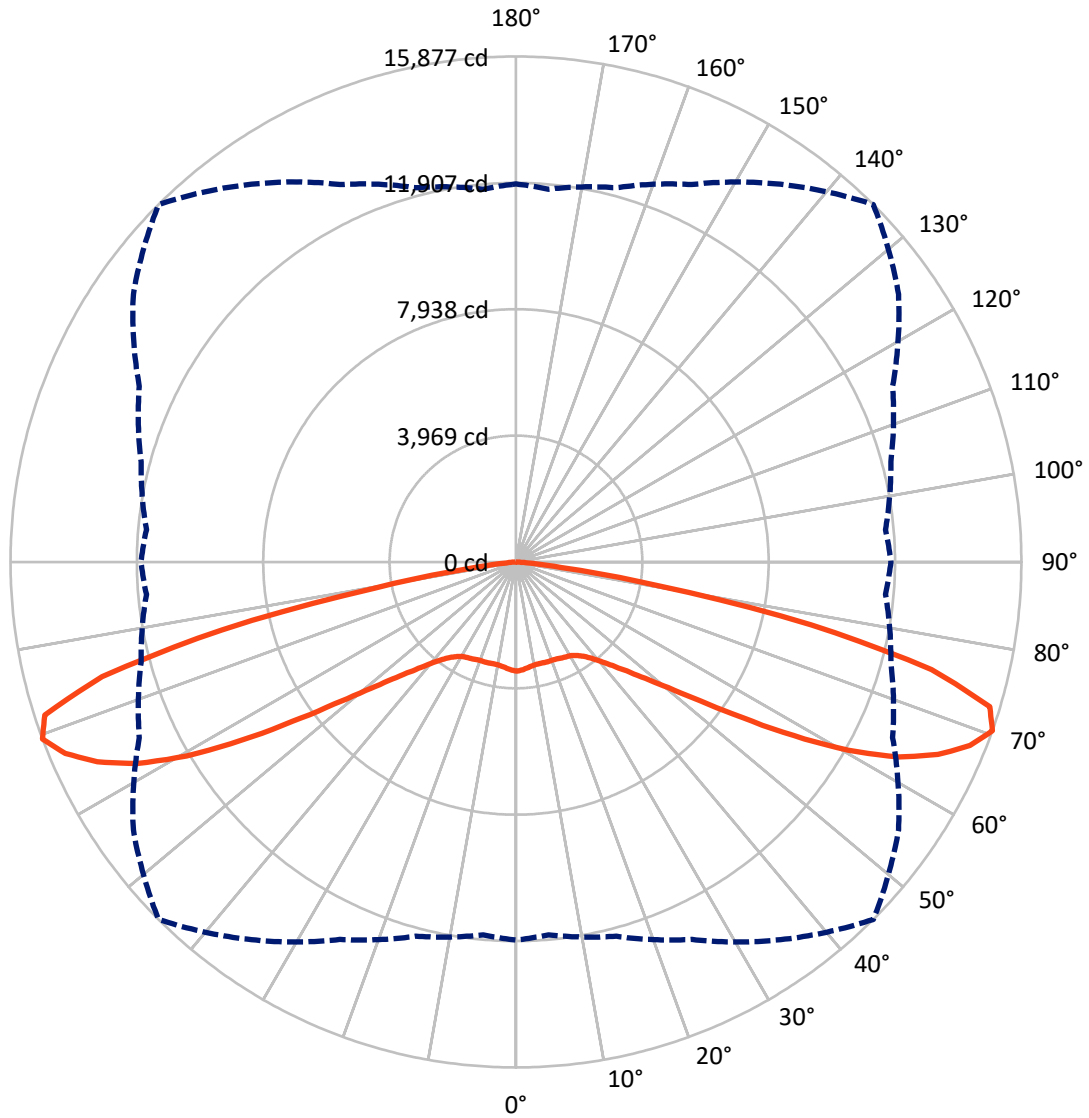
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18797.0	0.0	18797.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18797.0	0.0	18797.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37594.0	0.0	37594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.0	0.8
10°-20°	936.7	2.5
20°-30°	1558.8	4.1
30°-40°	2357.4	6.3
40°-50°	3917.3	10.4
50°-60°	7391.9	19.7
60°-70°	12481.5	33.2
70°-80°	8201.7	21.8
80°-90°	429.7	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°	37594.0	100.0
0°-180°	37594.0	100.0

**Coefficient of Utilization**



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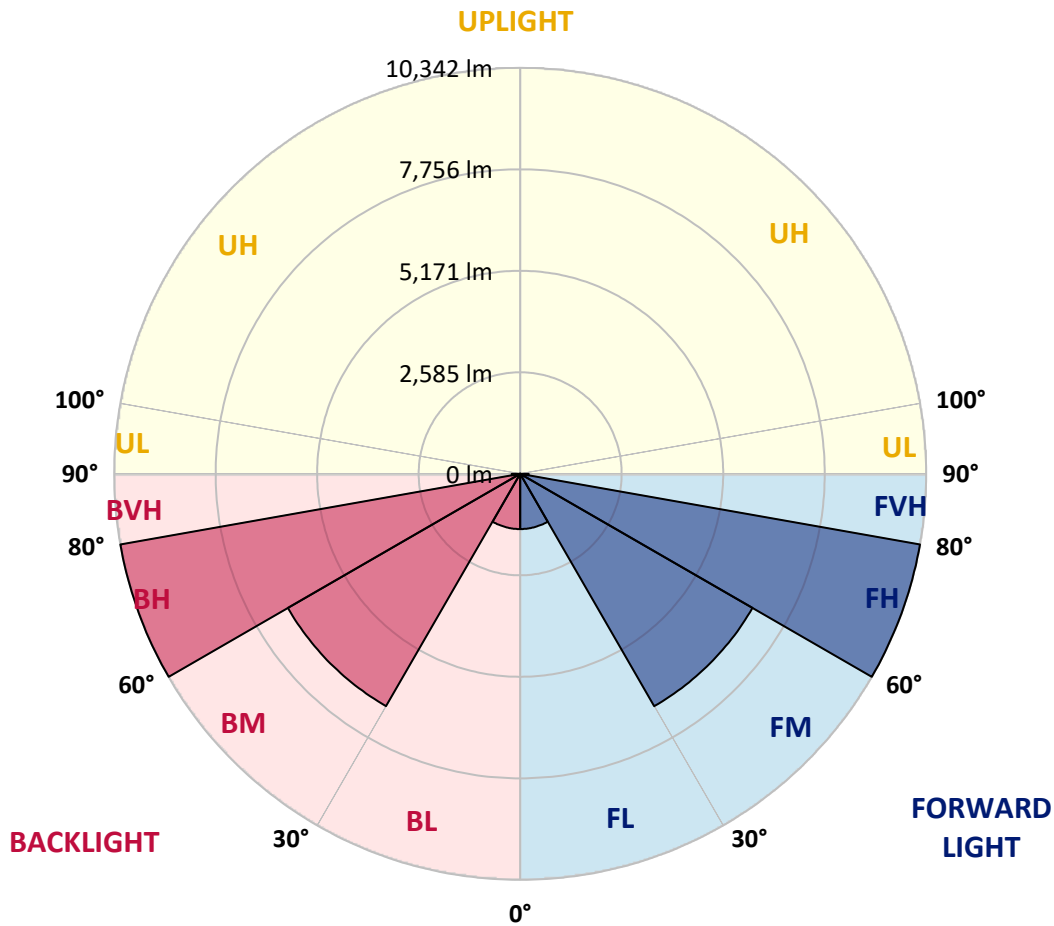
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.2	3.7			
FM (30°-60°)	6833.3	18.2			
FH (60°-80°)	10341.6	27.5			G4/12000
FVH (80°-90°)	214.8	0.6			G2/225
BL (0°-30°)	1407.2	3.7	B3/2500		
BM (30°-60°)	6833.3	18.2	B4/8500		
BH (60°-80°)	10341.6	27.5	B5		G4/12000
BVH (80°-90°)	214.8	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°	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3
2.5°	3407.8	3417.6	3413.7	3405.9	3405.9	3400.0	3405.9	3409.8	3415.7	3419.6
5°	3362.9	3370.7	3368.8	3362.9	3364.8	3359.0	3362.9	3368.8	3372.7	3374.6
7.5°	3323.8	3331.6	3327.7	3317.9	3317.9	3312.1	3314.0	3319.9	3325.8	3327.7
10°	3314.0	3321.9	3310.1	3294.5	3288.6	3280.8	3282.8	3288.6	3300.4	3306.2
12.5°	3317.9	3323.8	3312.1	3288.6	3282.8	3275.0	3275.0	3280.8	3296.5	3304.3
15°	3329.7	3335.5	3317.9	3292.5	3286.7	3280.8	3278.9	3286.7	3304.3	3317.9
17.5°	3351.2	3357.0	3329.7	3294.5	3286.7	3288.6	3286.7	3292.5	3319.9	3345.3
20°	3370.7	3374.6	3337.5	3294.5	3286.7	3288.6	3286.7	3298.4	3333.6	3368.8
22.5°	3376.6	3380.5	3345.3	3308.2	3302.3	3304.3	3302.3	3314.0	3347.3	3382.4
25°	3378.5	3384.4	3357.0	3327.7	3337.5	3341.4	3337.5	3339.4	3364.8	3396.1
27.5°	3407.8	3415.7	3390.2	3364.8	3370.7	3368.8	3374.6	3380.5	3400.0	3431.3
30°	3468.4	3474.3	3452.8	3427.4	3423.5	3409.8	3427.4	3446.9	3468.4	3495.8
32.5°	3568.1	3579.8	3552.4	3525.1	3507.5	3499.7	3513.4	3546.6	3575.9	3605.2
35°	3734.2	3742.0	3716.6	3665.8	3634.5	3634.5	3646.2	3689.2	3736.1	3773.2
37.5°	3968.6	3978.4	3933.5	3872.9	3826.0	3826.0	3841.6	3886.6	3956.9	4009.7
40°	4253.9	4267.6	4210.9	4148.4	4103.5	4095.7	4115.2	4166.0	4232.4	4298.9
42.5°	4597.8	4613.5	4539.2	4484.5	4449.3	4449.3	4459.1	4506.0	4566.6	4648.6
45°	5037.5	5064.9	4963.2	4908.5	4875.3	4883.1	4889.0	4930.0	4984.7	5078.5
47.5°	5561.2	5588.5	5481.1	5424.4	5418.5	5455.7	5432.2	5461.5	5490.8	5598.3
50°	6155.2	6202.1	6127.9	6123.9	6135.7	6204.1	6149.3	6165.0	6131.8	6200.1
52.5°	6882.1	6950.5	6936.8	6960.3	7091.2	7231.9	7106.8	7052.1	6927.1	6948.5
55°	7763.4	7866.9	7886.5	8027.2	8324.2	8611.4	8345.7	8124.9	7859.1	7810.3
57.5°	8765.8	8847.9	8941.7	9228.9	9783.8	10293.9	9783.8	9295.3	8877.2	8777.5
60°	9844.4	9946.0	10035.9	10459.9	11284.5	12001.7	11268.9	10493.2	9940.2	9805.3
62.5°	11003.2	11134.1	11196.6	11667.5	12628.9	13484.8	12642.6	11702.7	11089.1	10944.5
65°	12115.0	12222.5	12292.8	12795.0	13713.4	14571.2	13775.9	12849.7	12218.6	12029.0
67.5°	12632.8	12691.5	12863.4	13432.0	14401.2	15380.2	14565.4	13492.6	12787.2	12455.0
70°	11874.7	11755.5	12169.7	13080.3	14483.3	15876.5	14670.9	13052.9	12189.3	11650.0
72.5°	9176.1	8971.0	9690.1	11247.4	13545.4	15560.0	13639.2	11335.4	10137.5	9043.3
75°	4992.6	4760.0	5752.7	7722.3	10801.9	13486.7	11050.1	7943.1	6405.3	4955.4
77.5°	1408.9	1320.9	2122.1	3736.1	6497.2	9469.2	6747.3	3818.2	2516.8	1492.9
80°	431.8	418.2	566.7	1125.5	2759.1	4535.3	2651.6	1139.2	721.0	455.3
82.5°	256.0	234.5	281.4	410.3	703.5	1424.5	683.9	427.9	343.9	230.6
85°	146.6	136.8	166.1	199.3	236.4	302.9	197.4	203.2	183.7	123.1
87.5°	60.6	54.7	64.5	62.5	54.7	70.3	52.8	62.5	74.3	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3429.3
3417.6
3374.6
3327.7
3306.2
3306.2
3319.9
3345.3
3370.7
3382.4
3394.2
3423.5
3489.9
3593.5
3759.6
3990.1
4277.4
4642.8
5074.6
5567.0
6159.1
6876.2
7734.1
8707.2
9688.1
10827.3
11935.2
12458.9
11778.9
9314.9
5277.8
1659.0
480.7
250.1
129.0
44.9
0.0

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