

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: P942090

Luminaire Tested: **GALN-SB5D-940-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942090  
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-SB5D-940-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

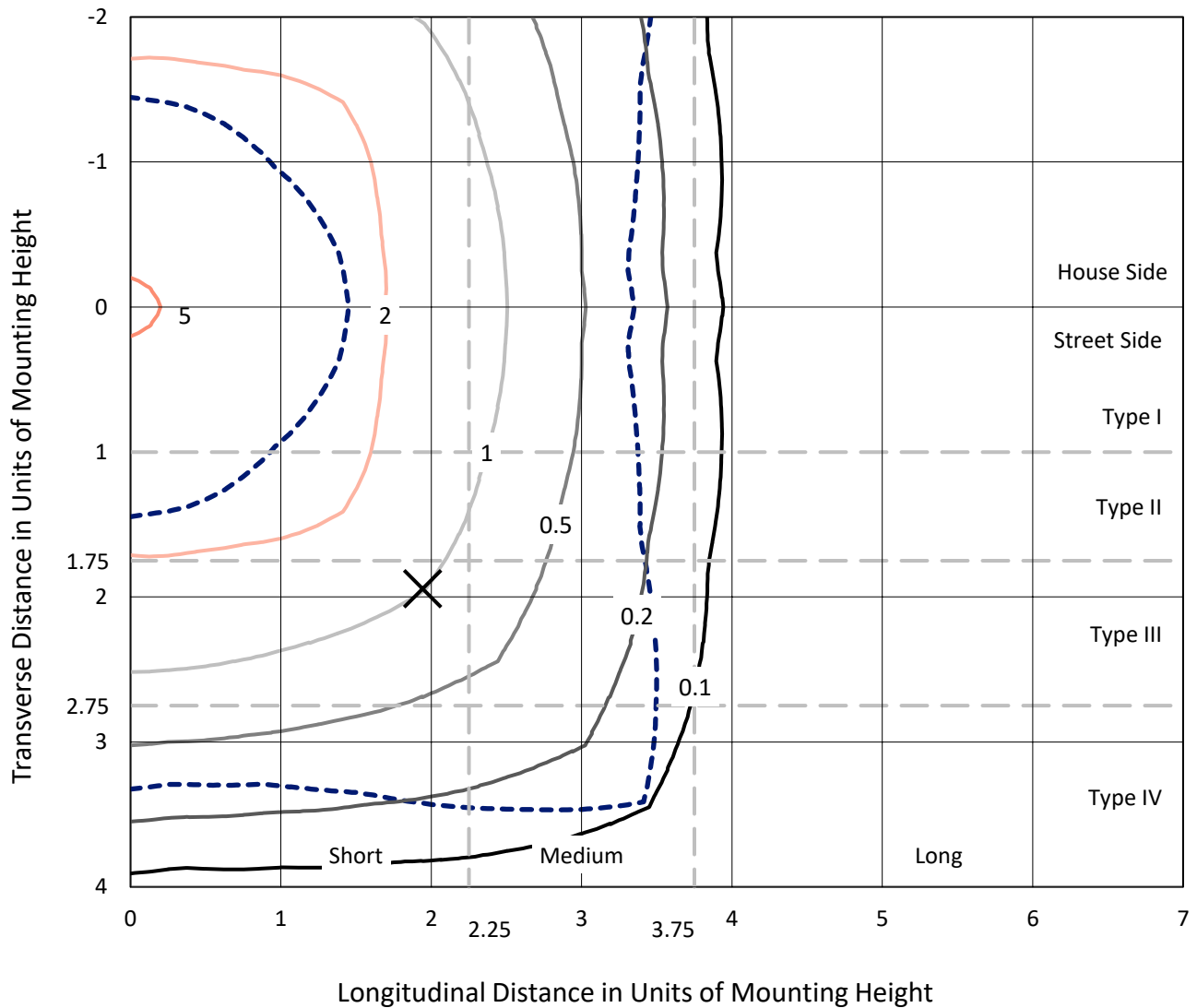
Lumens per Lamp: N/A  
Luminaire Lumens: 37678 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

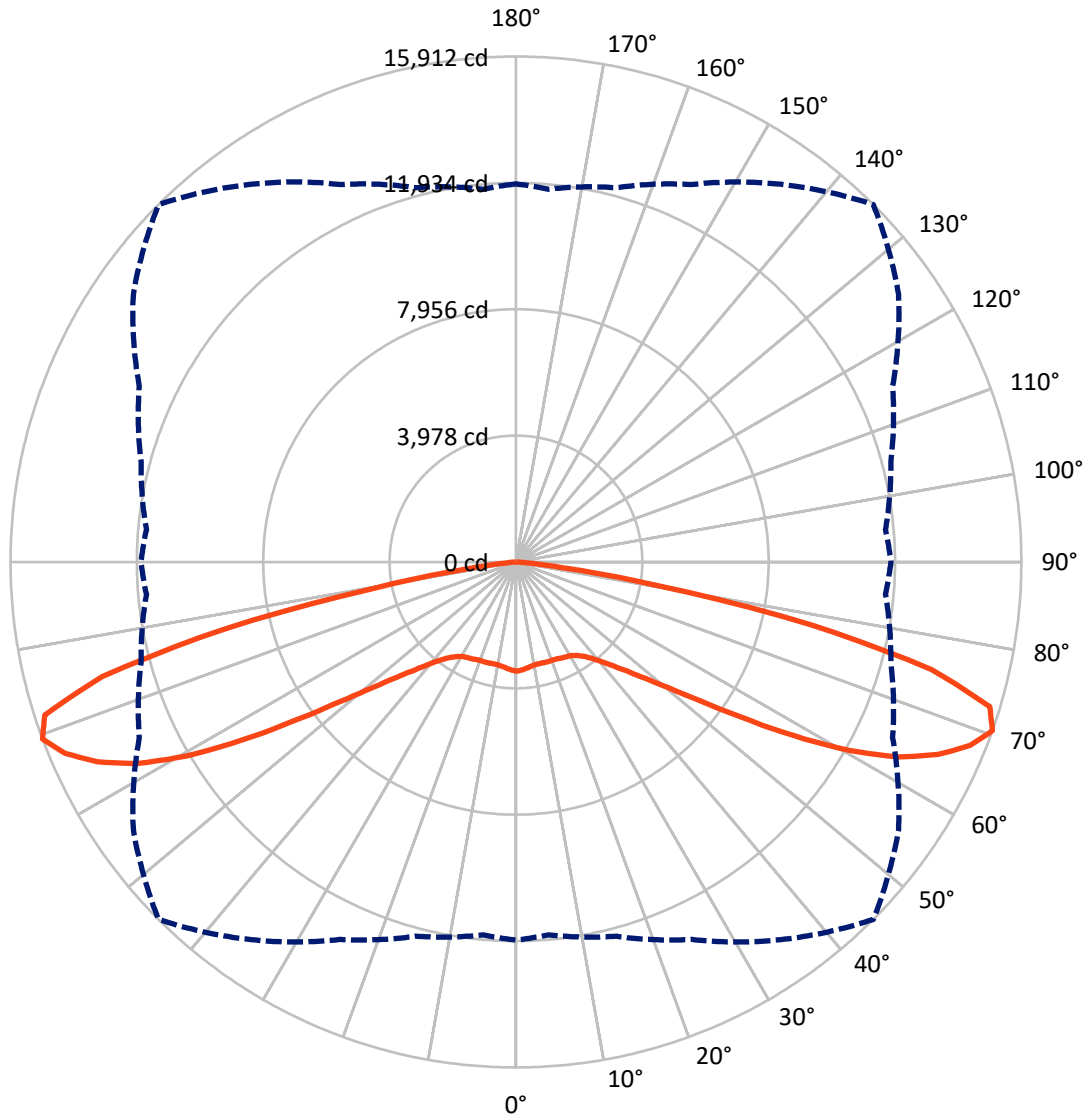
× Max cd  
 - - - 1/2 Max cd



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	18839.0	0.0	18839.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18839.0	0.0	18839.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37678.0	0.0	37678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.7	0.8
10°-20°	938.8	2.5
20°-30°	1562.3	4.1
30°-40°	2362.6	6.3
40°-50°	3926.1	10.4
50°-60°	7408.4	19.7
60°-70°	12509.4	33.2
70°-80°	8220.0	21.8
80°-90°	430.6	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°	37678.0	100.0
0°-180°	37678.0	100.0

**Coefficient of Utilization**



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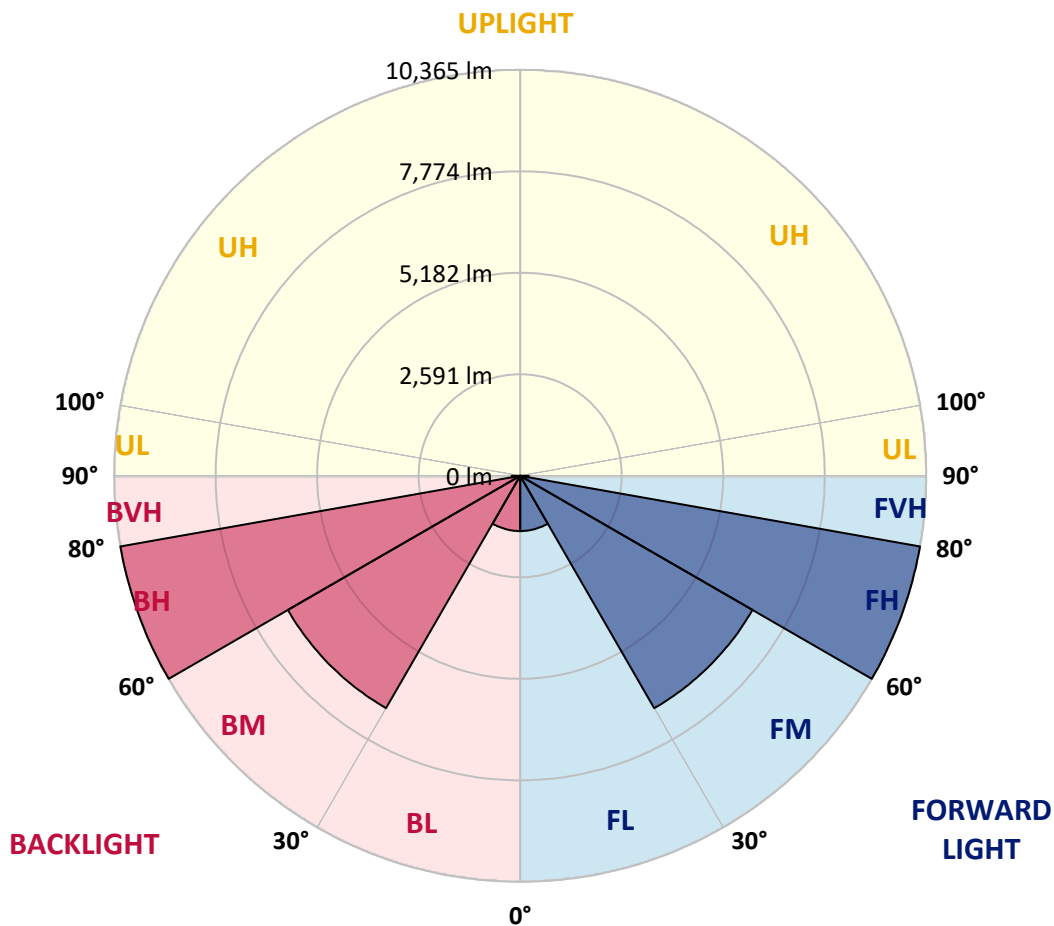
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.4	3.7			
FM (30°-60°)	6848.6	18.2			
FH (60°-80°)	10364.7	27.5			G4/12000
FVH (80°-90°)	215.3	0.6			G2/225
BL (0°-30°)	1410.4	3.7	B3/2500		
BM (30°-60°)	6848.6	18.2	B4/8500		
BH (60°-80°)	10364.7	27.5	B5		G4/12000
BVH (80°-90°)	215.3	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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3415.4	3425.2	3421.3	3413.5	3413.5	3407.6	3413.5	3417.4	3423.3	3427.2
5°	3370.4	3378.2	3376.3	3370.4	3372.4	3366.5	3370.4	3376.3	3380.2	3382.2
7.5°	3331.2	3339.1	3335.2	3325.4	3325.4	3319.5	3321.4	3327.3	3333.2	3335.2
10°	3321.4	3329.3	3317.5	3301.9	3296.0	3288.2	3290.1	3296.0	3307.7	3313.6
12.5°	3325.4	3331.2	3319.5	3296.0	3290.1	3282.3	3282.3	3288.2	3303.8	3311.7
15°	3337.1	3343.0	3325.4	3299.9	3294.0	3288.2	3286.2	3294.0	3311.7	3325.4
17.5°	3358.7	3364.5	3337.1	3301.9	3294.0	3296.0	3294.0	3299.9	3327.3	3352.8
20°	3378.2	3382.2	3344.9	3301.9	3294.0	3296.0	3294.0	3305.8	3341.0	3376.3
22.5°	3384.1	3388.0	3352.8	3315.6	3309.7	3311.7	3309.7	3321.4	3354.7	3390.0
25°	3386.1	3391.9	3364.5	3335.2	3344.9	3348.9	3344.9	3346.9	3372.4	3403.7
27.5°	3415.4	3423.3	3397.8	3372.4	3378.2	3376.3	3382.2	3388.0	3407.6	3439.0
30°	3476.2	3482.0	3460.5	3435.0	3431.1	3417.4	3435.0	3454.6	3476.2	3503.6
32.5°	3576.0	3587.8	3560.4	3533.0	3515.3	3507.5	3521.2	3554.5	3583.9	3613.2
35°	3742.5	3750.3	3724.9	3674.0	3642.6	3642.6	3654.4	3697.5	3744.5	3781.7
37.5°	3977.5	3987.3	3942.3	3881.5	3834.5	3834.5	3850.2	3895.3	3965.8	4018.6
40°	4263.4	4277.1	4220.4	4157.7	4112.6	4104.8	4124.4	4175.3	4241.9	4308.5
42.5°	4608.1	4623.8	4549.4	4494.5	4459.3	4459.3	4469.1	4516.1	4576.8	4659.0
45°	5048.8	5076.2	4974.3	4919.5	4886.2	4894.0	4899.9	4941.0	4995.9	5089.9
47.5°	5573.6	5601.0	5493.3	5436.5	5430.6	5467.9	5444.4	5473.7	5503.1	5610.8
50°	6169.0	6216.0	6141.5	6137.6	6149.4	6217.9	6163.1	6178.8	6145.5	6214.0
52.5°	6897.5	6966.0	6952.3	6975.8	7107.0	7248.0	7122.7	7067.9	6942.5	6964.1
55°	7780.7	7884.5	7904.1	8045.1	8342.8	8630.7	8364.3	8143.0	7876.7	7827.7
57.5°	8785.4	8867.6	8961.6	9249.5	9805.7	10316.9	9805.7	9316.1	8897.0	8797.1
60°	9866.4	9968.3	10058.3	10483.3	11309.8	12028.5	11294.1	10516.6	9962.4	9827.3
62.5°	11027.8	11159.0	11221.6	11693.6	12657.1	13514.9	12670.8	11728.9	11113.9	10969.0
65°	12142.1	12249.8	12320.3	12823.6	13744.1	14603.8	13806.7	12878.4	12245.9	12055.9
67.5°	12661.1	12719.8	12892.1	13462.0	14433.4	15414.6	14597.9	13522.8	12815.8	12482.8
70°	11901.2	11781.7	12196.9	13109.5	14515.7	15912.0	14703.7	13082.1	12216.5	11676.0
72.5°	9196.6	8991.0	9711.7	11272.6	13575.6	15594.7	13669.6	11360.7	10160.2	9063.5
75°	5003.7	4770.7	5765.5	7739.6	10826.0	13516.9	11074.8	7960.9	6419.6	4966.5
77.5°	1412.0	1323.9	2126.8	3744.5	6511.7	9490.4	6762.4	3826.7	2522.4	1496.2
80°	432.8	419.1	567.9	1128.0	2765.3	4545.4	2657.5	1141.7	722.6	456.3
82.5°	256.6	235.0	282.0	411.3	705.0	1427.7	685.4	428.9	344.7	231.1
85°	146.9	137.1	166.5	199.8	237.0	303.6	197.8	203.7	184.1	123.4
87.5°	60.7	54.8	64.6	62.7	54.8	70.5	52.9	62.7	74.4	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3437.0
3425.2
3382.2
3335.2
3313.6
3313.6
3327.3
3352.8
3378.2
3390.0
3401.7
3431.1
3497.7
3601.5
3768.0
3999.1
4286.9
4653.2
5086.0
5579.5
6172.9
6891.6
7751.3
8726.6
9709.7
10851.5
11961.9
12486.8
<i>11805.2</i>
9335.7
5289.6
1662.7
481.8
250.7
129.3
45.0
0.0

OF REPORT)