

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: P950983

Luminaire Tested: **GALN-SB5B-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950983
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-SB5B-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31516 lumens
Efficiency: N/A
Efficacy: 172.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

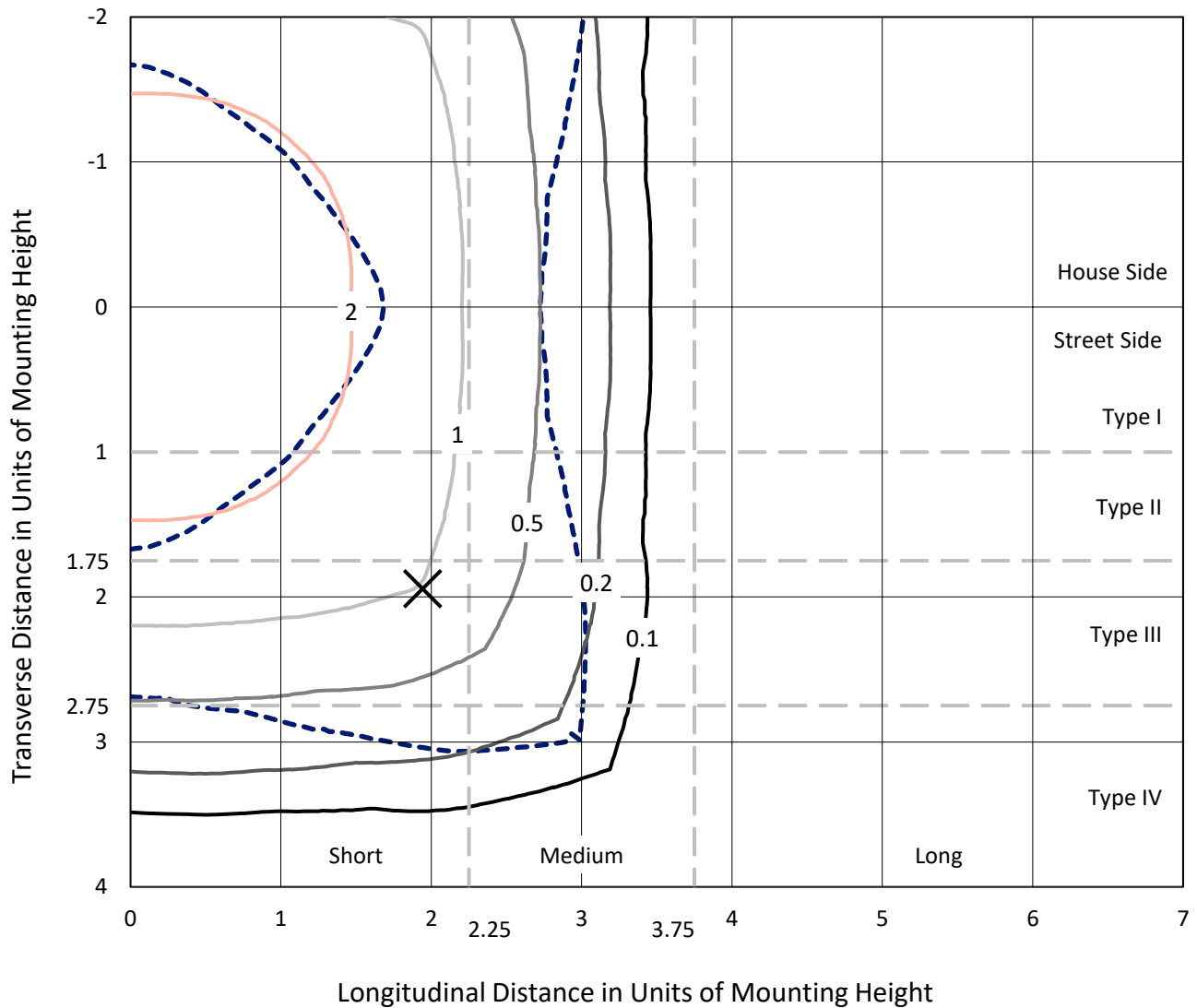
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950983
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Iso-Footcandle Lines of Horizontal Illumination

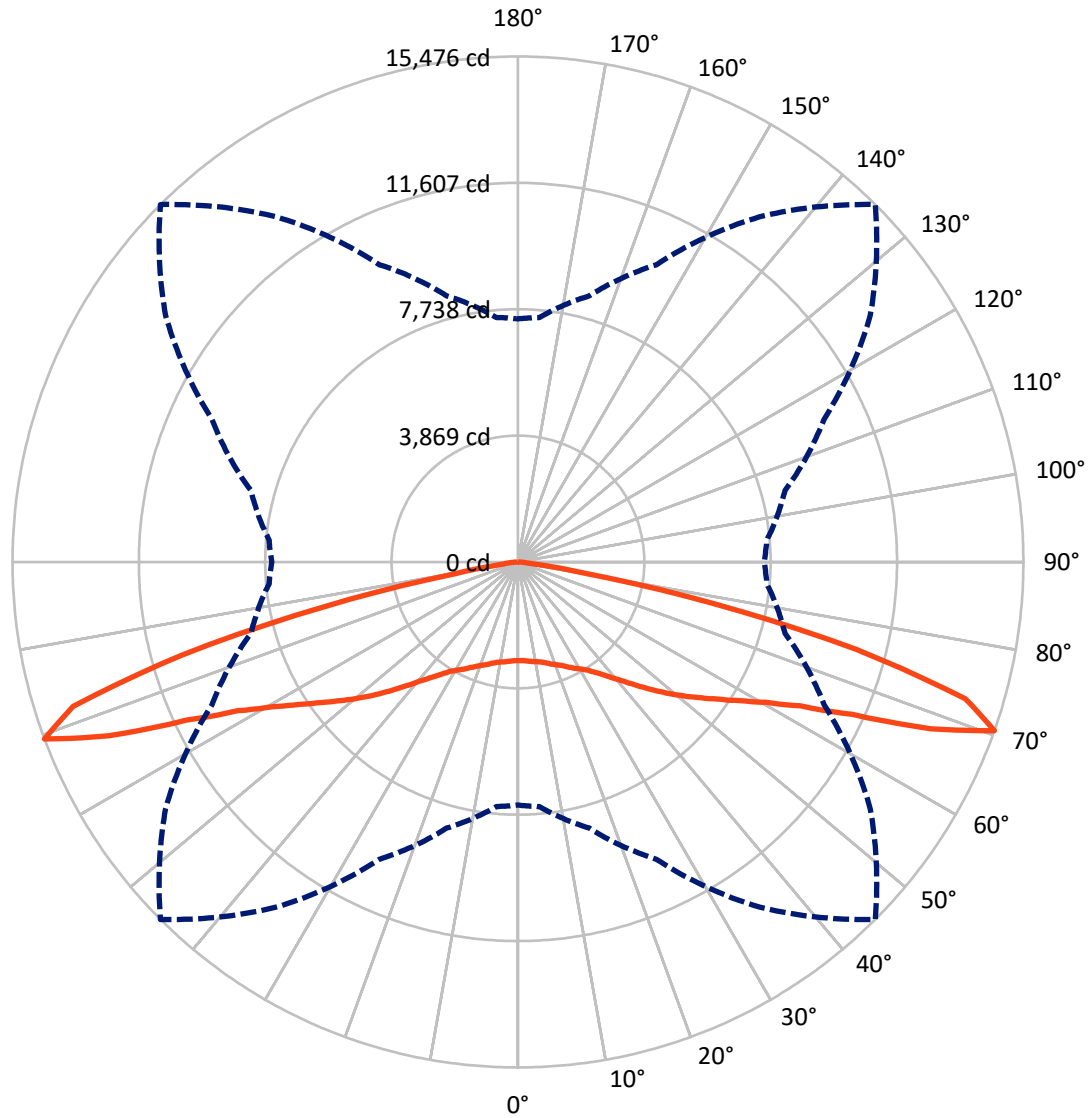
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SB5B-740-U-5MQ

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
House Side	Lumens	15758.0	0.0	15758.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15758.0	0.0	15758.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31516.0	0.0	31516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	0.9
10°-20°	909.5	2.9
20°-30°	1625.3	5.2
30°-40°	2634.6	8.4
40°-50°	4291.3	13.6
50°-60°	6542.8	20.8
60°-70°	9733.6	30.9
70°-80°	5305.1	16.8
80°-90°	180.7	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°	31516.0	100.0
0°-180°	31516.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950983

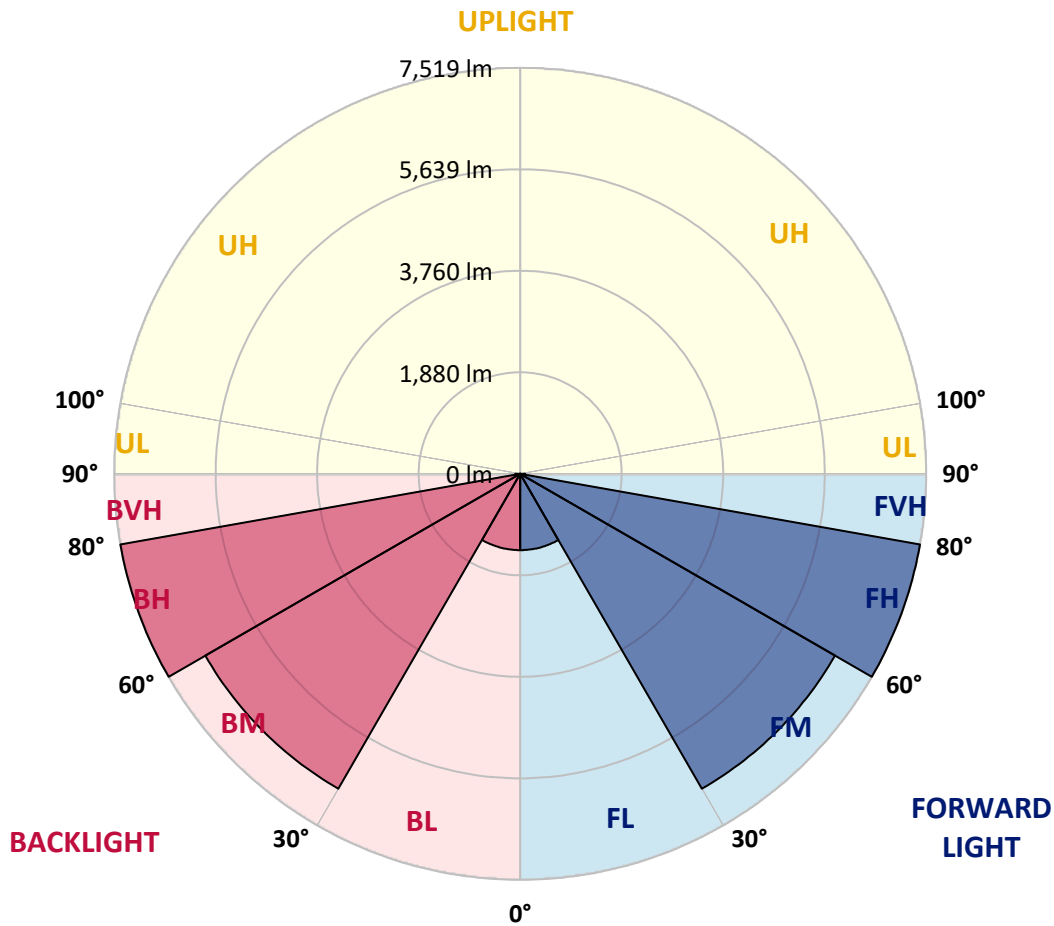
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.0	4.5			
FM (30°-60°)	6734.3	21.4			
FH (60°-80°)	7519.3	23.9			G4/12000
FVH (80°-90°)	90.3	0.3			G1/100
BL (0°-30°)	1414.0	4.5	B3/2500		
BM (30°-60°)	6734.3	21.4	B4/8500		
BH (60°-80°)	7519.3	23.9	B5		G4/12000
BVH (80°-90°)	90.3	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9
2.5°	3033.1	3036.3	3030.0	3026.8	3023.7	3018.9	3020.5	3028.4	3034.7	3033.1
5°	3058.5	3061.6	3056.9	3055.3	3049.0	3047.4	3047.4	3055.3	3060.0	3056.9
7.5°	3086.9	3091.7	3083.8	3082.2	3079.0	3075.9	3074.3	3082.2	3086.9	3086.9
10°	3113.8	3118.6	3112.3	3107.5	3104.3	3104.3	3101.2	3107.5	3115.4	3113.8
12.5°	3142.3	3145.5	3139.2	3136.0	3136.0	3140.7	3136.0	3139.2	3145.5	3142.3
15°	3177.1	3178.7	3177.1	3181.9	3189.8	3205.6	3191.4	3188.2	3191.4	3183.5
17.5°	3224.6	3227.8	3234.1	3245.2	3256.2	3284.7	3259.4	3251.5	3251.5	3235.7
20°	3283.1	3287.9	3297.4	3316.4	3330.6	3357.5	3332.2	3321.1	3316.4	3295.8
22.5°	3344.8	3352.8	3367.0	3392.3	3417.6	3442.9	3417.6	3398.6	3384.4	3357.5
25°	3416.0	3425.5	3447.7	3488.8	3523.6	3560.0	3530.0	3492.0	3463.5	3425.5
27.5°	3517.3	3528.4	3555.3	3605.9	3650.2	3681.9	3653.4	3604.3	3564.8	3518.9
30°	3659.7	3670.8	3702.4	3756.2	3786.3	3806.9	3787.9	3749.9	3702.4	3650.2
32.5°	3843.3	3857.5	3892.3	3942.9	3949.3	3952.4	3946.1	3927.1	3892.3	3829.0
35°	4075.8	4091.7	4131.2	4172.4	4166.0	4172.4	4162.9	4156.5	4131.2	4058.4
37.5°	4360.6	4379.6	4420.8	4452.4	4436.6	4428.7	4430.3	4431.8	4417.6	4336.9
40°	4691.3	4716.6	4746.7	4779.9	4753.0	4729.3	4745.1	4757.8	4745.1	4662.8
42.5°	5031.5	5067.9	5099.5	5147.0	5124.9	5094.8	5117.0	5131.2	5104.3	5015.7
45°	5409.7	5444.5	5485.6	5556.8	5541.0	5509.3	5541.0	5544.2	5498.3	5393.8
47.5°	5800.5	5836.9	5898.6	5993.5	5987.2	5952.4	5993.5	5971.4	5912.8	5787.8
50°	6170.7	6221.4	6316.3	6449.2	6461.9	6419.1	6474.5	6431.8	6333.7	6177.1
52.5°	6518.8	6572.6	6722.9	6903.3	6949.2	6893.8	6968.2	6893.8	6746.7	6545.7
55°	6884.3	6944.4	7123.2	7359.0	7450.8	7409.6	7479.2	7366.9	7158.0	6914.4
57.5°	7314.7	7351.1	7564.7	7844.7	7999.8	8009.3	8040.9	7851.1	7597.9	7321.0
60°	7781.4	7832.1	8064.7	8400.1	8645.3	8724.5	8691.2	8409.6	8115.3	7797.3
62.5°	8379.5	8434.9	8713.4	9115.3	9502.9	9699.1	9569.4	9161.1	8797.2	8415.9
65°	8874.8	8936.5	9439.6	10156.4	10862.1	11256.0	10930.1	10178.5	9523.5	8985.5
67.5°	8515.6	8591.5	9381.1	10697.5	12452.2	13627.8	12512.3	10858.9	9575.7	8846.3
70°	7442.8	7514.0	8434.9	10044.0	12900.0	15475.9	13169.0	10339.9	8465.0	7648.5
72.5°	4941.3	5170.7	6102.7	8033.0	11518.7	14320.8	11632.6	7870.0	5661.2	4930.2
75°	1639.2	1822.7	2458.8	4164.4	7715.0	10710.2	7344.7	3685.0	1947.7	1401.9
77.5°	413.0	476.3	656.6	1191.4	3077.4	6097.9	2770.5	973.1	530.0	370.2
80°	200.9	221.5	316.4	397.1	770.5	1938.2	723.1	373.4	250.0	193.0
82.5°	110.8	112.3	178.8	224.7	286.4	501.6	297.5	218.3	144.0	117.1
85°	68.0	66.5	94.9	120.2	120.2	178.8	142.4	120.2	82.3	72.8
87.5°	26.9	26.9	34.8	38.0	33.2	45.9	36.4	39.6	31.6	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3018.9
3034.7
3058.5
3086.9
3113.8
3140.7
3183.5
3235.7
3295.8
3355.9
3424.0
3517.3
3650.2
3830.6
4058.4
4336.9
4662.8
5022.0
5404.9
5779.9
6173.9
6526.7
6881.1
7283.0
7746.6
8349.5
8896.9
8737.1
7539.4
4770.4
1325.9
330.7
177.2
117.1
75.9
31.6
0.0

OF REPORT)