

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: P947393

Luminaire Tested: **GALN-SB2D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947393
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-SB2D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21325 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

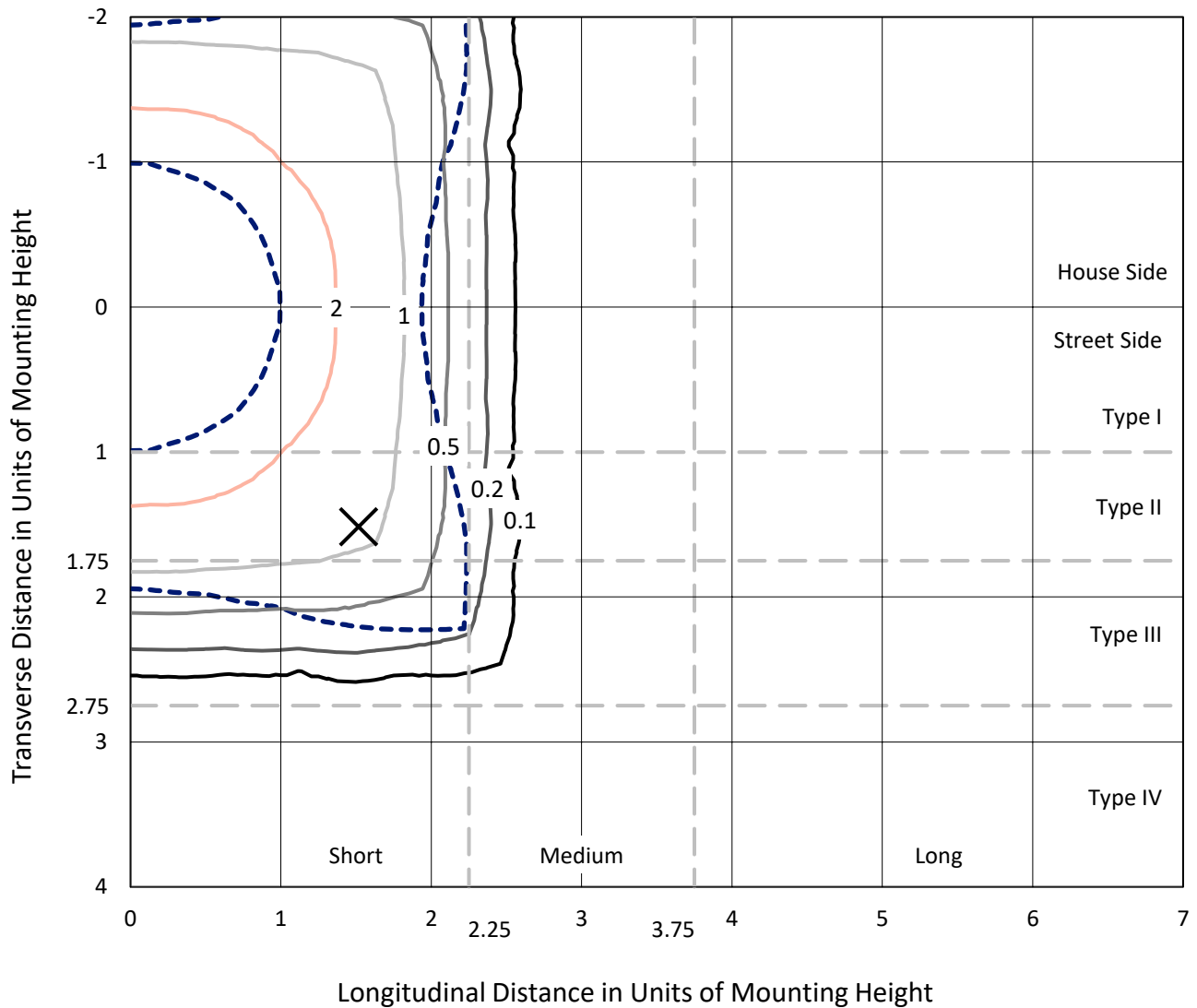
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

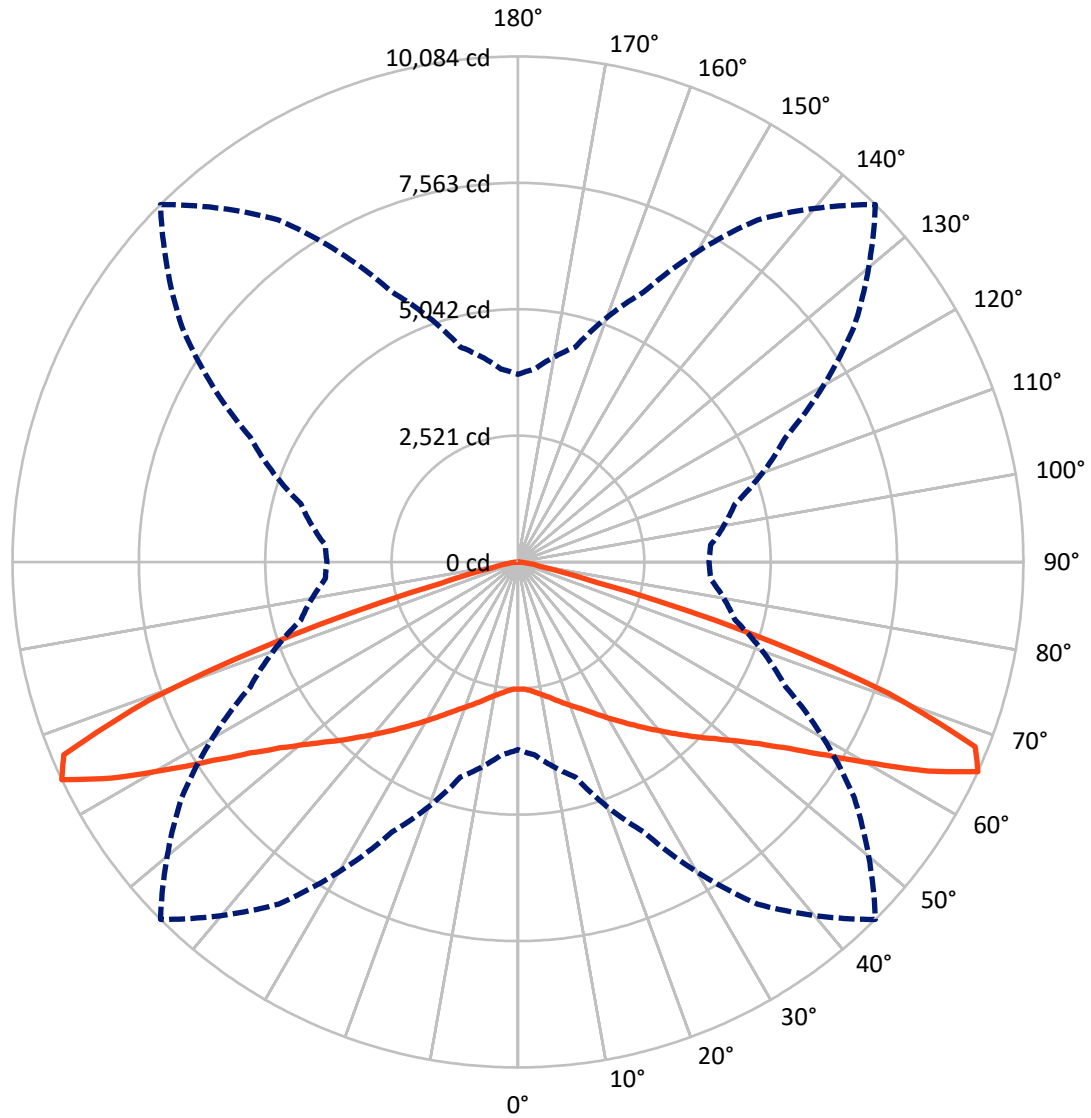
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10662.5	0.0	10662.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10662.5	0.0	10662.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21325.0	0.0	21325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.2
10°-20°	817.3	3.8
20°-30°	1543.1	7.2
30°-40°	2526.8	11.8
40°-50°	3917.9	18.4
50°-60°	5787.5	27.1
60°-70°	5509.2	25.8
70°-80°	889.0	4.2
80°-90°	83.8	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°	21325.0	100.0
0°-180°	21325.0	100.0



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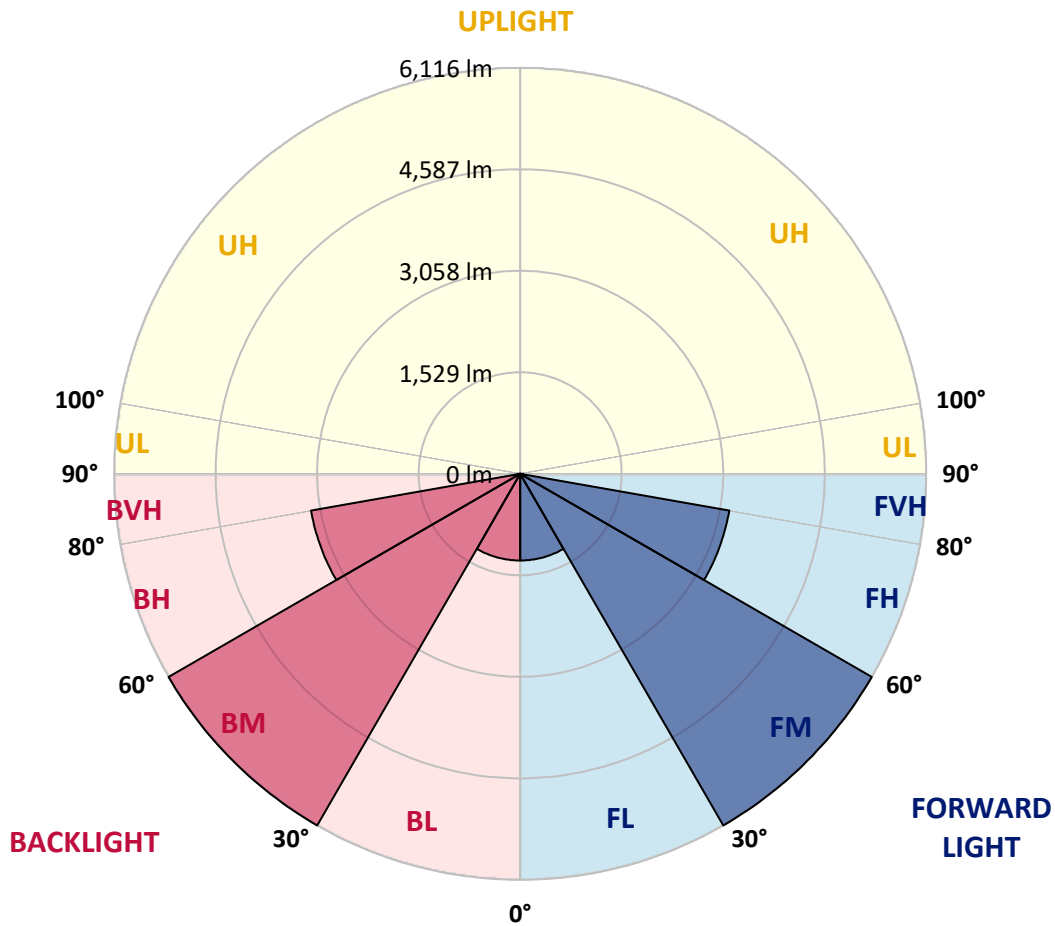
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.4	6.1			
FM (30°-60°)	6116.1	28.7			
FH (60°-80°)	3199.1	15.0			G2/5000
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1305.4	6.1	B3/2500		
BM (30°-60°)	6116.1	28.7	B4/8500		
BH (60°-80°)	3199.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	41.9	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°	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9
2.5°	2555.0	2546.4	2552.9	2547.5	2543.2	2539.0	2541.1	2548.6	2551.8	2552.9
5°	2589.2	2581.8	2585.0	2585.0	2577.5	2575.3	2576.4	2581.8	2588.2	2588.2
7.5°	2644.9	2637.4	2644.9	2640.6	2634.2	2632.0	2631.0	2635.3	2644.9	2644.9
10°	2712.3	2703.7	2708.0	2705.9	2698.4	2695.2	2694.1	2700.5	2709.1	2708.0
12.5°	2786.1	2776.5	2781.8	2775.4	2773.3	2770.1	2770.1	2769.0	2774.3	2770.1
15°	2868.5	2862.1	2864.2	2859.9	2863.1	2861.0	2852.4	2848.2	2850.3	2843.9
17.5°	2965.9	2950.9	2958.4	2956.2	2956.2	2960.5	2946.6	2941.3	2945.5	2939.1
20°	3078.2	3063.2	3066.4	3062.2	3056.8	3061.1	3044.0	3048.2	3051.5	3047.2
22.5°	3201.2	3182.0	3180.9	3183.1	3171.3	3172.4	3160.6	3171.3	3177.7	3165.9
25°	3327.5	3307.2	3321.1	3315.7	3300.8	3304.0	3295.4	3306.1	3311.5	3296.5
27.5°	3461.2	3447.3	3460.2	3463.4	3445.2	3458.0	3445.2	3454.8	3460.2	3437.7
30°	3617.5	3603.5	3615.3	3623.9	3602.5	3622.8	3612.1	3618.5	3619.6	3592.8
32.5°	3787.6	3766.2	3796.1	3800.4	3776.9	3801.5	3787.6	3796.1	3801.5	3765.1
35°	3995.1	3968.4	4002.6	3997.3	3977.0	3997.3	3984.4	3997.3	4010.1	3966.3
37.5°	4218.8	4190.9	4227.3	4217.7	4198.4	4212.3	4204.8	4213.4	4233.7	4186.7
40°	4464.8	4430.6	4479.8	4462.7	4444.5	4442.4	4446.7	4452.0	4478.8	4426.3
42.5°	4728.0	4691.7	4765.5	4738.7	4713.1	4695.9	4709.9	4720.6	4746.2	4687.4
45°	5028.7	4987.0	5083.3	5051.2	5010.5	4975.2	4997.7	5013.7	5051.2	4980.6
47.5°	5360.4	5313.3	5416.0	5406.4	5340.1	5263.0	5314.4	5360.4	5388.2	5302.6
50°	5684.6	5648.2	5783.0	5794.8	5713.5	5605.4	5677.1	5746.6	5754.1	5641.8
52.5°	5988.4	5952.1	6147.9	6221.7	6148.9	6020.5	6096.5	6167.1	6110.4	5964.9
55°	6231.3	6201.3	6450.6	6641.1	6665.7	6559.8	6604.7	6602.6	6416.4	6192.8
57.5°	6290.2	6285.9	6600.4	7003.8	7260.6	7273.4	7184.6	6957.8	6556.6	6255.9
60°	6022.7	6049.4	6481.7	7193.2	7877.9	8162.5	7778.4	7131.1	6397.1	5979.9
62.5°	5222.4	5293.0	5814.0	6962.1	8376.5	9185.4	8254.6	6867.9	5742.3	5197.7
65°	3742.6	3865.7	4441.3	5941.4	8331.6	10084.1	8186.1	5893.2	4484.1	3856.0
67.5°	1698.0	1823.2	2312.1	4067.9	7242.4	9840.2	7225.3	4110.7	2427.7	1829.6
70°	615.2	636.6	793.9	1628.4	4628.5	7840.5	4826.5	1640.2	844.2	678.3
72.5°	372.3	375.5	408.7	583.1	1608.1	4760.1	1676.6	602.4	417.3	370.2
75°	236.5	234.3	291.0	356.3	570.3	1606.0	598.1	356.3	290.0	264.3
77.5°	170.1	175.5	208.6	266.4	359.5	544.6	353.1	254.6	208.6	171.2
80°	127.3	130.5	151.9	207.6	252.5	339.2	224.7	188.3	157.3	107.0
82.5°	92.0	92.0	99.5	150.9	154.1	183.0	122.0	132.7	103.8	76.0
85°	54.6	53.5	62.1	89.9	80.2	67.4	55.6	81.3	65.3	47.1
87.5°	19.3	20.3	19.3	25.7	21.4	18.2	17.1	22.5	18.2	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2537.9
2552.9
2588.2
2641.7
2705.9
2772.2
2845.0
2944.5
3056.8
3177.7
3313.6
3454.8
3608.9
3789.7
3993.0
4215.5
4443.4
4718.4
5016.9
5331.5
5655.7
5969.2
6200.3
6236.7
5930.7
5165.7
3810.0
1802.8
669.8
376.6
266.4
174.4
110.2
76.0
46.0
15.0
0.0

OF REPORT)