

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: P947396

Luminaire Tested: **GALN-SB2D-735-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
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-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

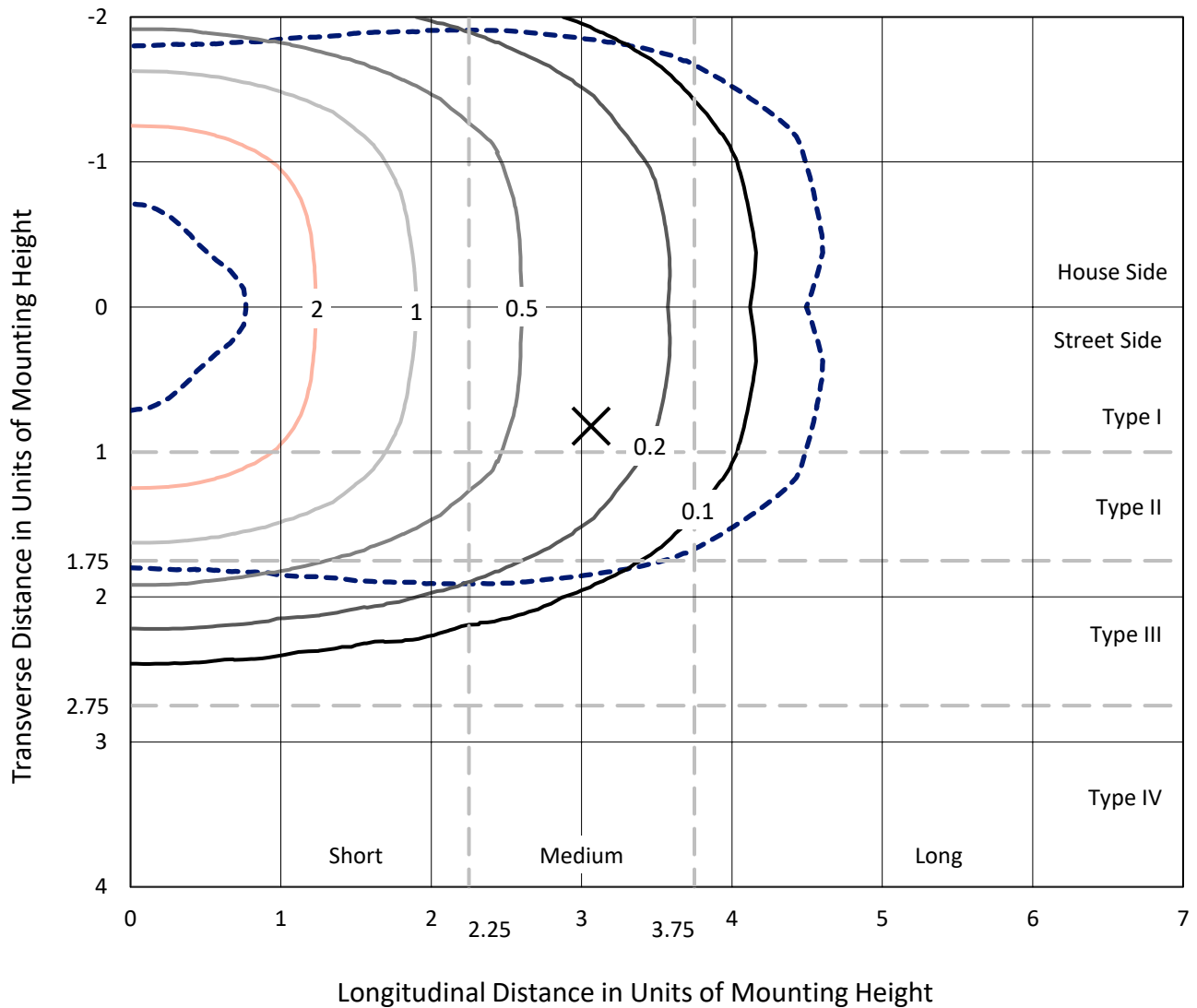
Lumens per Lamp: N/A  
Luminaire Lumens: 20956 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

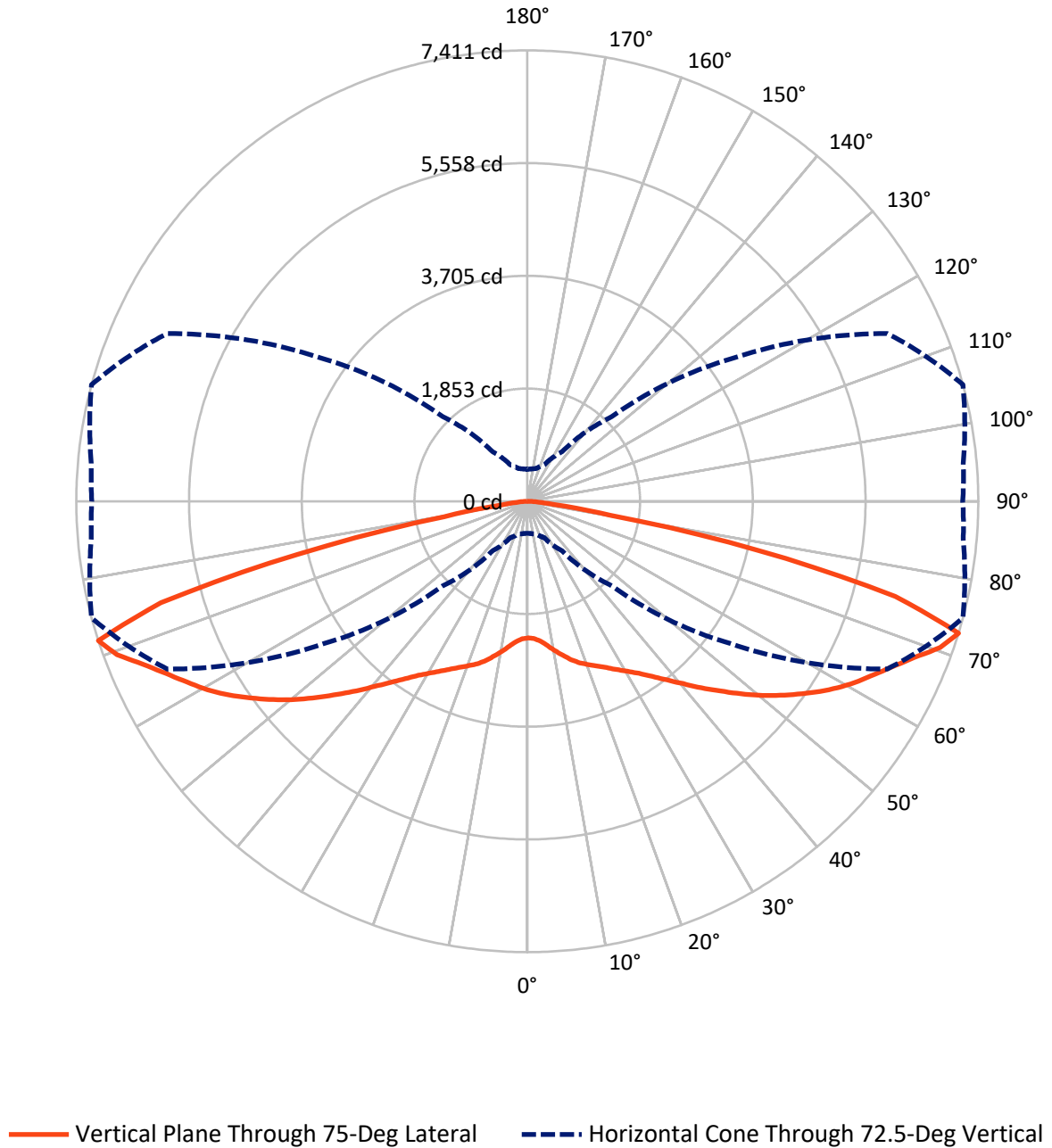
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10478.0	0.0	10478.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10478.0	0.0	10478.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20956.0	0.0	20956.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.9	1.0
10°-20°	725.3	3.5
20°-30°	1401.4	6.7
30°-40°	2366.4	11.3
40°-50°	3752.8	17.9
50°-60°	5024.5	24.0
60°-70°	4781.7	22.8
70°-80°	2495.2	11.9
80°-90°	188.9	0.9
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°	20956.0	100.0
0°-180°	20956.0	100.0



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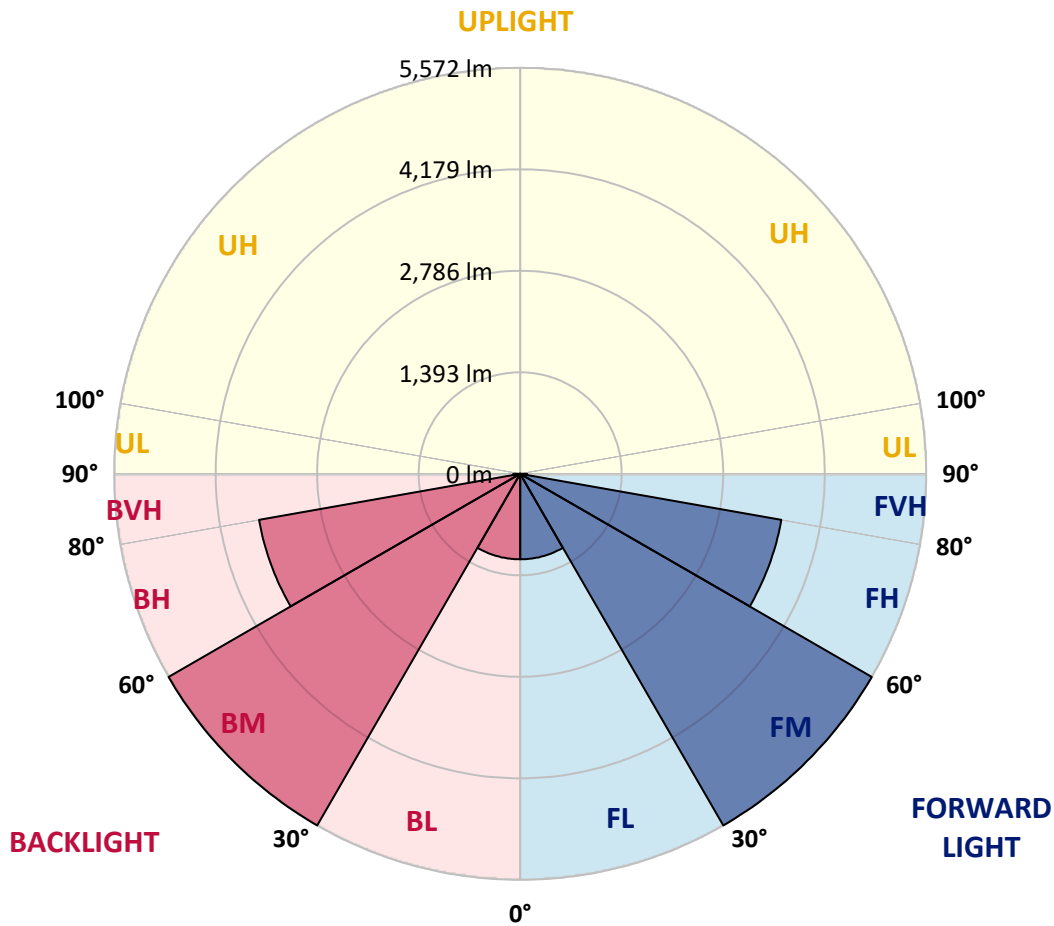
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.3	5.6			
FM (30°-60°)	5571.8	26.6			
FH (60°-80°)	3638.5	17.4			G2/5000
FVH (80°-90°)	94.4	0.5			G1/100
BL (0°-30°)	1173.3	5.6	B3/2500		
BM (30°-60°)	5571.8	26.6	B4/8500		
BH (60°-80°)	3638.5	17.4	B4/5000		G4/5000
BVH (80°-90°)	94.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2244.8	2244.8	2244.8	2244.8	2244.8	2244.8	2244.8	2244.8	2244.8	2244.8
2.5°	2244.8	2242.6	2244.8	2246.9	2245.8	2245.8	2251.2	2254.4	2260.8	2259.7
5°	2229.8	2228.7	2237.3	2246.9	2254.4	2267.2	2283.3	2295.1	2310.0	2313.2
7.5°	2222.3	2219.1	2234.1	2251.2	2274.7	2306.8	2337.8	2369.9	2395.6	2404.2
10°	2227.6	2228.7	2249.0	2281.1	2318.6	2363.5	2407.4	2462.0	2498.3	2506.9
12.5°	2252.3	2250.1	2284.4	2335.7	2387.1	2443.8	2495.1	2555.0	2594.6	2615.0
15°	2297.2	2292.9	2341.1	2417.0	2491.9	2558.3	2600.0	2656.7	2702.7	2728.4
17.5°	2350.7	2352.8	2416.0	2514.4	2612.8	2687.7	2727.3	2756.2	2791.5	2814.0
20°	2444.8	2449.1	2519.7	2636.4	2748.7	2834.3	2866.4	2855.7	2865.3	2882.5
22.5°	2571.1	2573.2	2652.4	2778.7	2896.4	2990.5	3011.9	2968.1	2941.3	2953.1
25°	2717.7	2731.6	2810.8	2940.2	3061.1	3151.0	3160.6	3094.3	3028.0	3031.2
27.5°	2896.4	2909.2	2989.5	3117.8	3240.9	3319.0	3317.9	3229.1	3131.8	3107.1
30°	3090.0	3103.9	3186.3	3319.0	3433.5	3502.0	3487.0	3381.1	3242.0	3196.0
32.5°	3320.1	3328.6	3412.1	3544.8	3650.7	3705.2	3674.2	3543.7	3370.4	3317.9
35°	3598.3	3611.1	3673.2	3798.3	3891.4	3936.4	3883.9	3729.9	3535.1	3476.3
37.5°	3916.0	3907.5	3978.1	4089.4	4166.4	4194.2	4122.5	3939.6	3723.4	3653.9
40°	4247.7	4243.4	4320.5	4427.5	4469.2	4486.3	4380.4	4180.3	3940.6	3865.7
42.5°	4548.4	4545.2	4648.9	4767.7	4818.0	4798.7	4665.0	4436.0	4192.1	4106.5
45°	4789.1	4784.8	4912.2	5079.1	5177.5	5145.4	4965.7	4718.5	4446.7	4357.9
47.5°	4974.2	4976.4	5113.3	5319.8	5492.1	5503.8	5272.7	5006.3	4727.1	4626.5
50°	5108.0	5114.4	5261.0	5489.9	5725.3	5829.1	5586.2	5301.6	5017.0	4903.6
52.5°	5141.1	5152.9	5329.4	5598.0	5875.1	6073.1	5905.1	5585.2	5292.0	5183.9
55°	4964.6	4988.1	5211.7	5589.4	5967.1	6233.5	6185.4	5873.0	5569.1	5457.8
57.5°	4559.1	4592.2	4853.3	5346.6	5946.8	6343.8	6402.6	6149.0	5846.2	5739.2
60°	3990.9	4030.5	4280.9	4819.1	5660.1	6384.4	6555.6	6417.6	6100.9	5997.1
62.5°	3133.9	3185.3	3484.8	4116.1	5054.5	6195.0	6686.1	6660.5	6329.8	6200.4
65°	2010.4	2065.0	2380.6	3126.4	4246.6	5615.1	6726.8	6896.9	6571.7	6390.8
67.5°	1212.3	1236.9	1393.1	1894.9	3103.9	4741.0	6382.3	7159.1	6854.1	6629.4
70°	775.7	789.6	882.7	1112.8	1754.7	3459.2	5528.5	7208.3	7196.5	6874.5
72.5°	526.4	530.7	555.3	659.1	992.9	1965.5	4077.6	6525.6	7410.5	7190.1
75°	385.2	408.7	448.3	466.5	563.9	982.2	2336.8	4584.8	6245.3	6341.6
77.5°	286.7	287.8	342.4	363.8	402.3	523.2	988.6	2559.3	3877.5	4071.2
80°	242.9	230.0	229.0	293.2	302.8	326.3	441.9	883.8	1388.8	842.1
82.5°	202.2	188.3	170.1	229.0	206.5	200.1	191.5	359.5	441.9	217.2
85°	141.2	134.8	128.4	149.8	117.7	100.6	92.0	168.0	186.2	92.0
87.5°	61.0	63.1	64.2	66.3	49.2	35.3	35.3	47.1	47.1	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2244.8
2258.7
2313.2
2406.3
2515.5
2623.5
2738.0
2824.7
2895.3
2961.6
3036.5
3114.6
3201.3
3330.8
3484.8
3666.7
3890.4
4127.9
4378.3
4656.4
4937.8
5211.7
5488.9
5763.8
6019.6
6215.4
6413.3
6646.6
6872.3
7155.8
6108.4
3631.4
636.6
185.1
81.3
26.7
0.0

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