

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: P527704

Luminaire Tested: **GALN-SA2D-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12761 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

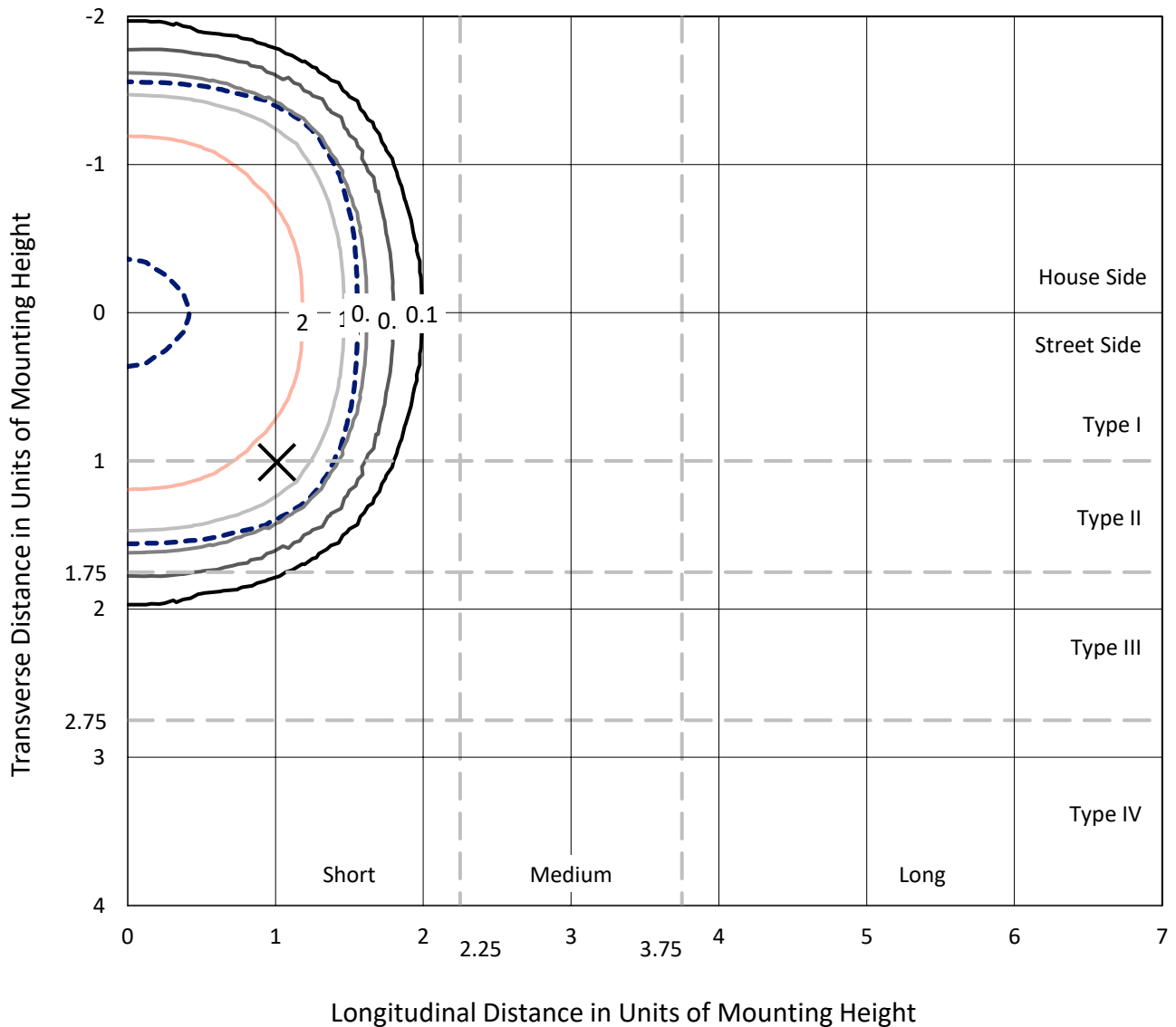
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

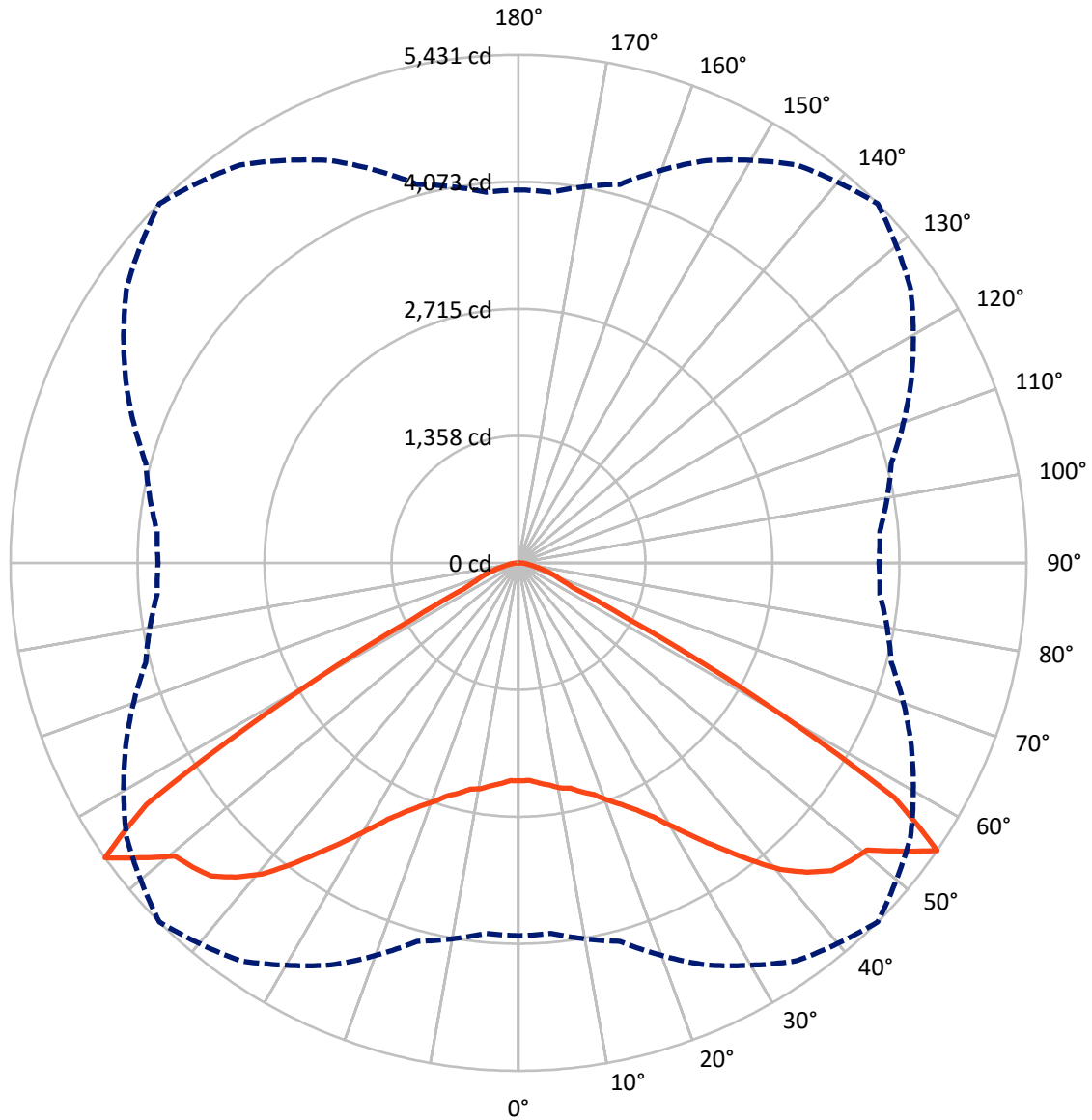
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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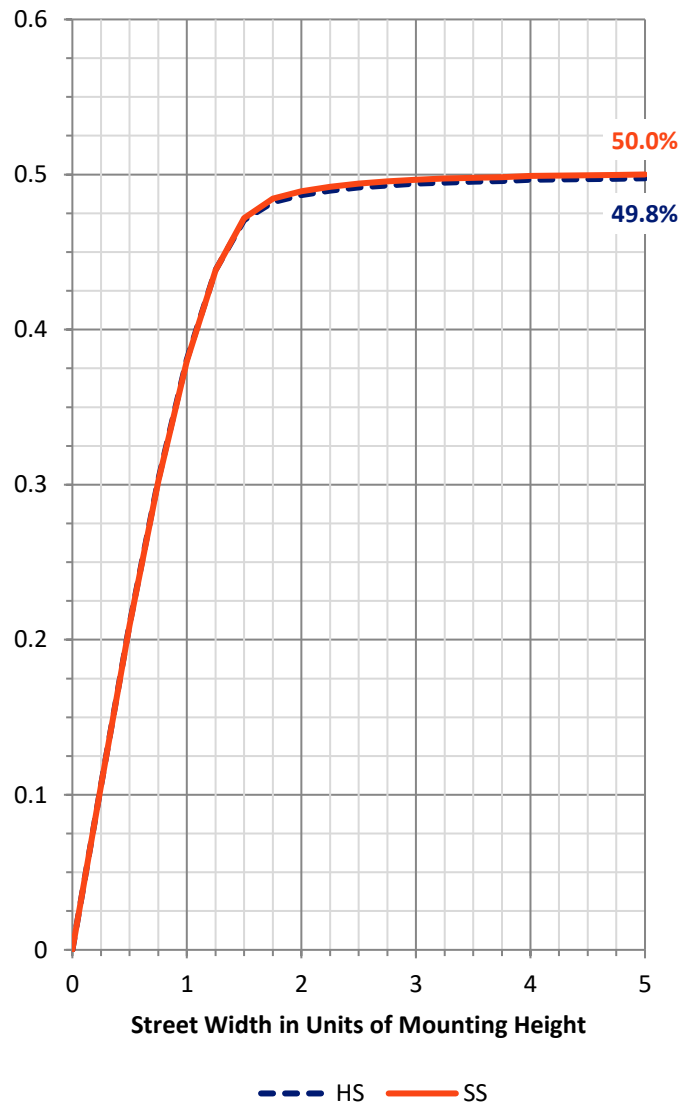
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6380.5	0.0	6380.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6380.5	0.0	6380.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12761.0	0.0	12761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	1.8
10°-20°	721.2	5.7
20°-30°	1344.8	10.5
30°-40°	2251.7	17.6
40°-50°	3503.7	27.5
50°-60°	3638.0	28.5
60°-70°	771.5	6.0
70°-80°	254.1	2.0
80°-90°	48.4	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°	12761.0	100.0
0°-180°	12761.0	100.0

**Coefficient of Utilization**



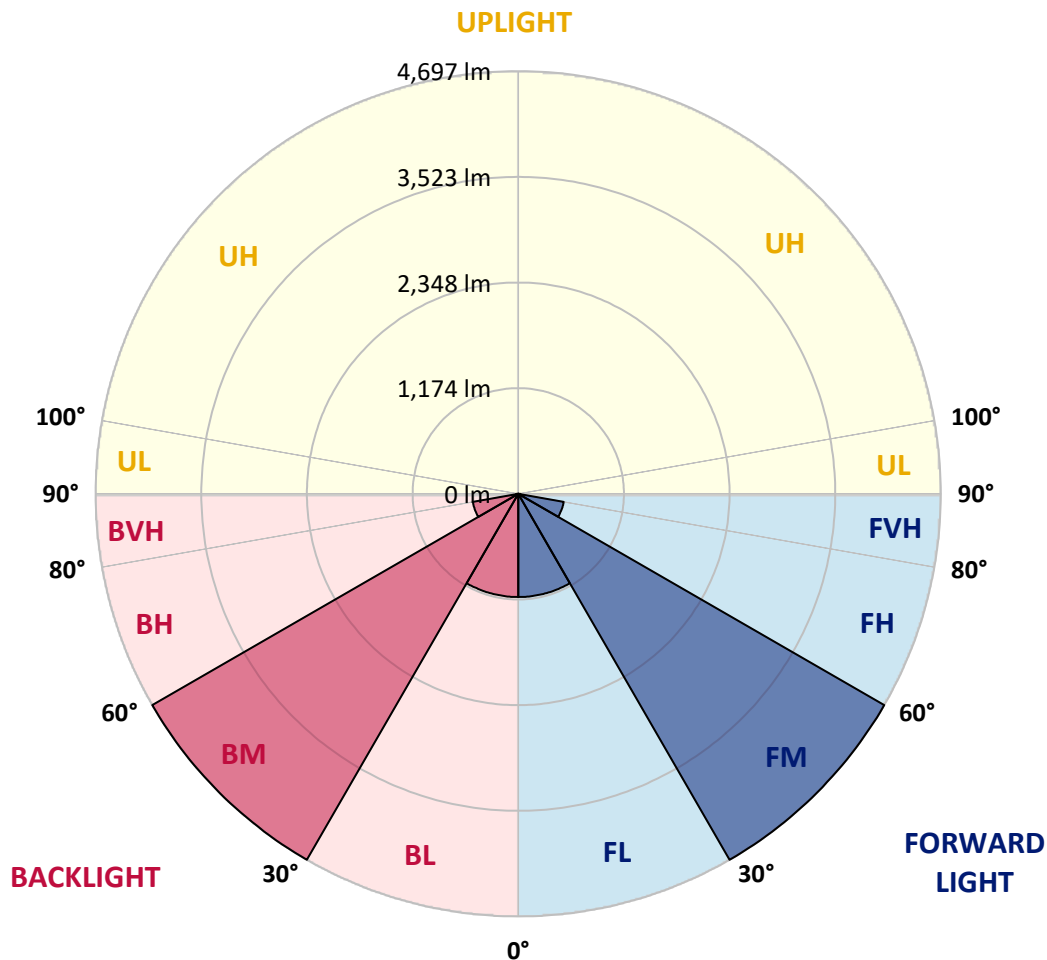
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.8	9.0			
FM (30°-60°)	4696.7	36.8			
FH (60°-80°)	512.8	4.0			G0/660
FVH (80°-90°)	24.2	0.2			G1/100
BL (0°-30°)	1146.8	9.0	B3/2500		
BM (30°-60°)	4696.7	36.8	B3/5000		
BH (60°-80°)	512.8	4.0	B2/1000		G0/660
BVH (80°-90°)	24.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2330.0	2330.0	2330.0	2330.0	2330.0	2330.0	2330.0	2330.0	2330.0	2330.0	2330.0
2.5°	2357.7	2346.9	2328.4	2342.3	2353.1	2330.0	2339.2	2343.8	2340.8	2328.4	2333.1
5°	2391.6	2385.5	2370.1	2380.9	2367.0	2367.0	2357.7	2345.4	2363.9	2360.8	2368.5
7.5°	2391.6	2383.9	2414.8	2394.7	2400.9	2400.9	2385.5	2373.1	2382.4	2368.5	2360.8
10°	2439.5	2450.2	2436.4	2441.0	2437.9	2448.7	2425.6	2417.9	2410.2	2405.5	2396.3
12.5°	2496.5	2488.8	2493.4	2490.3	2501.1	2473.4	2459.5	2442.5	2456.4	2436.4	2450.2
15°	2542.8	2538.1	2542.8	2555.1	2544.3	2542.8	2518.1	2501.1	2479.5	2484.2	2462.6
17.5°	2606.0	2601.4	2602.9	2613.7	2612.2	2604.4	2585.9	2553.6	2545.8	2533.5	2519.6
20°	2700.0	2692.3	2689.3	2693.9	2701.6	2707.8	2670.8	2658.4	2632.2	2612.2	2589.0
22.5°	2780.2	2777.1	2789.5	2769.4	2786.4	2804.9	2769.4	2763.3	2698.5	2687.7	2663.0
25°	2891.3	2886.6	2878.9	2908.2	2928.3	2926.7	2892.8	2858.9	2809.5	2797.2	2797.2
27.5°	3008.5	2982.2	3022.3	3030.0	3065.5	3076.3	3047.0	2997.7	2951.4	2925.2	2931.3
30°	3154.9	3130.3	3139.5	3195.0	3241.3	3281.4	3207.4	3134.9	3070.1	3023.9	3016.2
32.5°	3301.4	3276.8	3304.5	3358.5	3451.0	3511.1	3438.7	3312.2	3236.7	3168.8	3182.7
35°	3420.2	3438.7	3483.4	3565.1	3660.7	3757.9	3642.2	3545.1	3437.1	3361.6	3372.4
37.5°	3611.4	3668.4	3703.9	3798.0	3933.7	4033.9	3913.6	3787.2	3671.5	3572.8	3538.9
40°	3861.2	3899.7	3939.8	4050.8	4211.2	4311.4	4197.3	4032.3	3918.2	3816.5	3811.8
42.5°	4135.7	4172.7	4214.3	4350.0	4445.6	4521.2	4416.3	4328.4	4202.0	4121.8	4117.2
45°	4454.8	4428.6	4474.9	4564.3	4644.5	4693.9	4626.0	4582.8	4491.9	4417.8	4410.1
47.5°	4667.6	4644.5	4727.8	4808.0	4820.3	4766.3	4780.2	4820.3	4724.7	4602.9	4641.4
50°	4791.0	4791.0	4846.5	4920.5	4897.4	4828.0	4937.5	4940.6	4845.0	4737.0	4737.0
52.5°	4576.7	4624.5	4781.8	5023.8	5100.9	5121.0	5096.3	4991.5	4741.7	4521.2	4510.4
55°	3987.6	3976.8	4189.6	4744.7	5193.5	5430.9	5116.4	4633.7	4126.4	3878.1	3853.5
57.5°	2593.7	2606.0	2923.6	3489.6	4299.1	4741.7	4211.2	3532.7	2923.6	2581.3	2613.7
60°	1167.3	1208.9	1401.7	1824.2	2519.6	2880.5	2525.8	1916.7	1471.1	1276.8	1293.7
62.5°	670.8	678.5	686.2	814.2	1073.2	1269.1	1114.9	860.4	758.7	724.7	724.7
65°	565.9	561.3	562.8	573.6	601.4	641.5	624.5	601.4	604.5	601.4	596.8
67.5°	481.1	487.3	482.6	490.4	491.9	498.1	508.9	518.1	519.7	522.7	519.7
70°	394.8	396.3	399.4	405.5	407.1	411.7	427.1	434.8	439.5	439.5	445.6
72.5°	302.2	300.7	303.8	309.9	317.7	319.2	333.1	343.9	350.0	342.3	343.9
75°	198.9	200.5	205.1	209.7	220.5	231.3	235.9	246.7	248.3	251.3	243.6
77.5°	118.7	121.8	126.4	135.7	144.9	154.2	165.0	172.7	175.8	172.7	163.5
80°	77.1	77.1	83.3	91.0	101.8	109.5	115.7	121.8	126.4	121.8	118.7
82.5°	47.8	47.8	55.5	64.8	72.5	77.1	86.4	94.1	98.7	95.6	91.0
85°	24.7	26.2	32.4	40.1	46.3	49.3	47.8	43.2	38.6	37.0	33.9
87.5°	7.7	7.7	9.3	9.3	7.7	7.7	9.3	7.7	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)