

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: P451859

Luminaire Tested: **GALN-SA2D-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14143 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

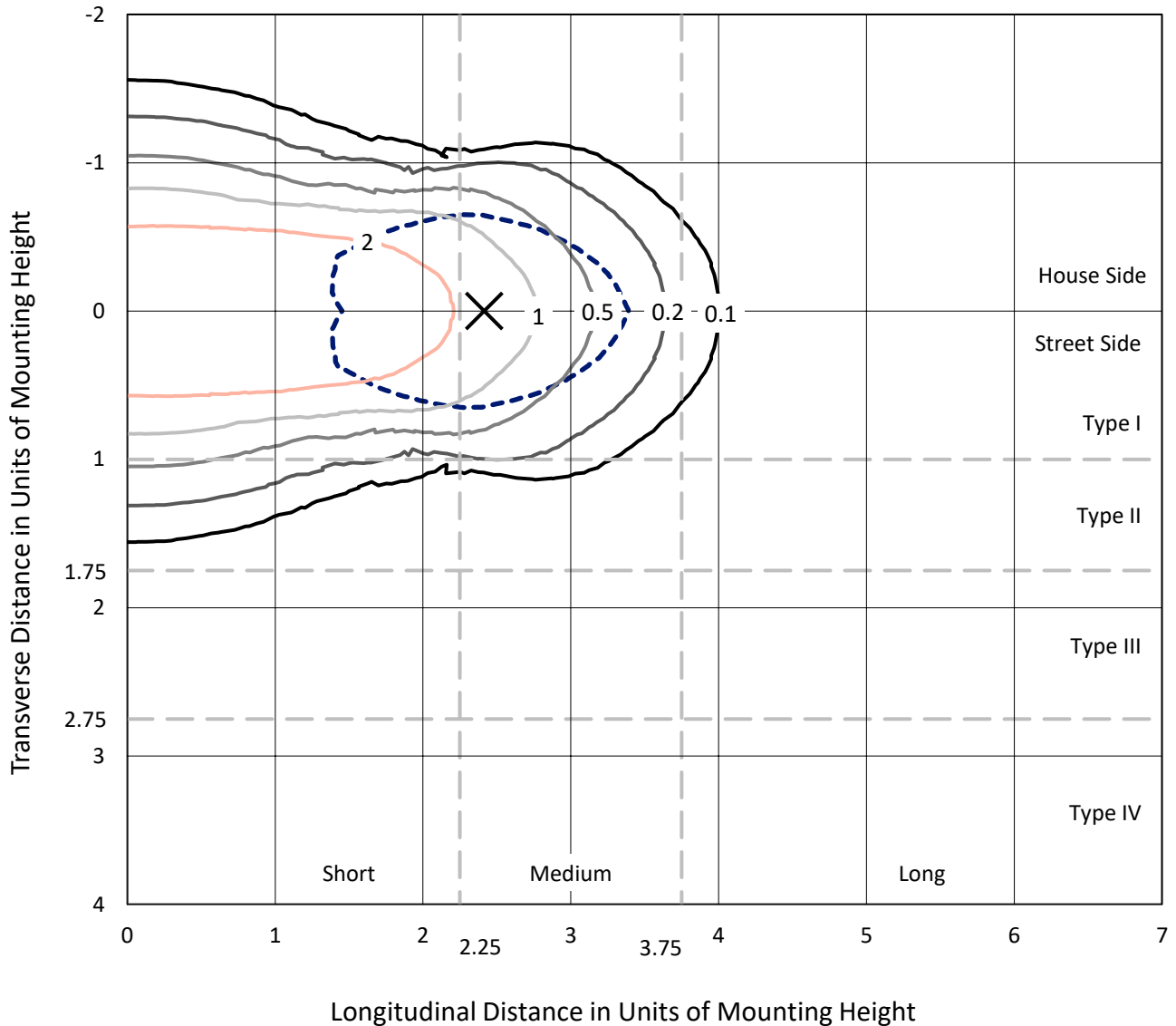
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

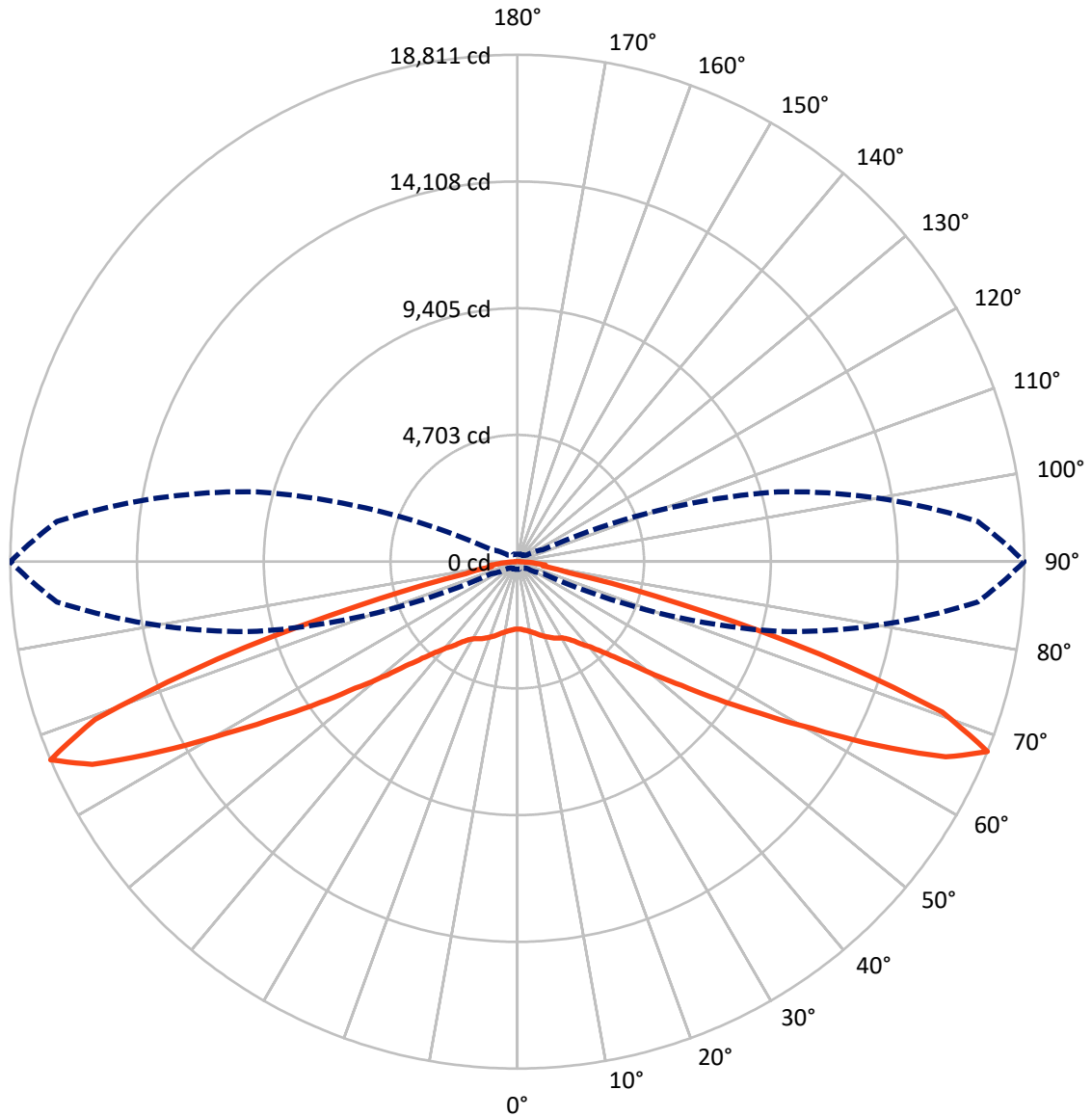
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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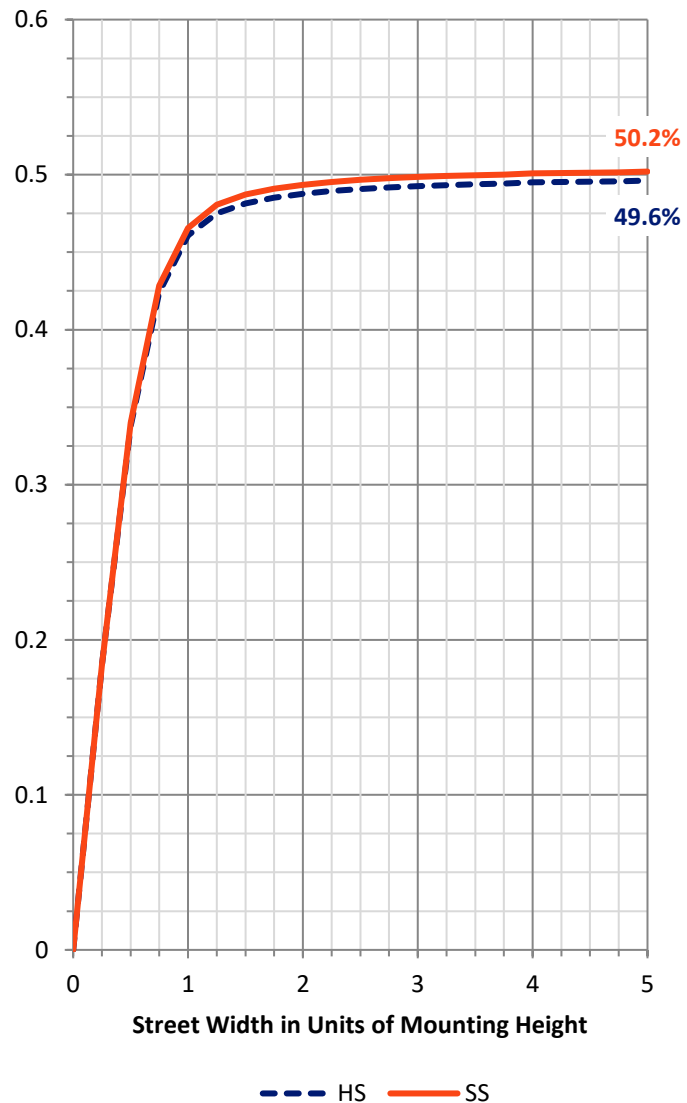
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7071.5	0.0	7071.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7071.5	0.0	7071.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14143.0	0.0	14143.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.6	1.8
10°-20°	798.7	5.6
20°-30°	1336.8	9.5
30°-40°	1811.0	12.8
40°-50°	2293.9	16.2
50°-60°	2865.6	20.3
60°-70°	3368.4	23.8
70°-80°	1288.6	9.1
80°-90°	130.5	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°	14143.0	100.0
0°-180°	14143.0	100.0



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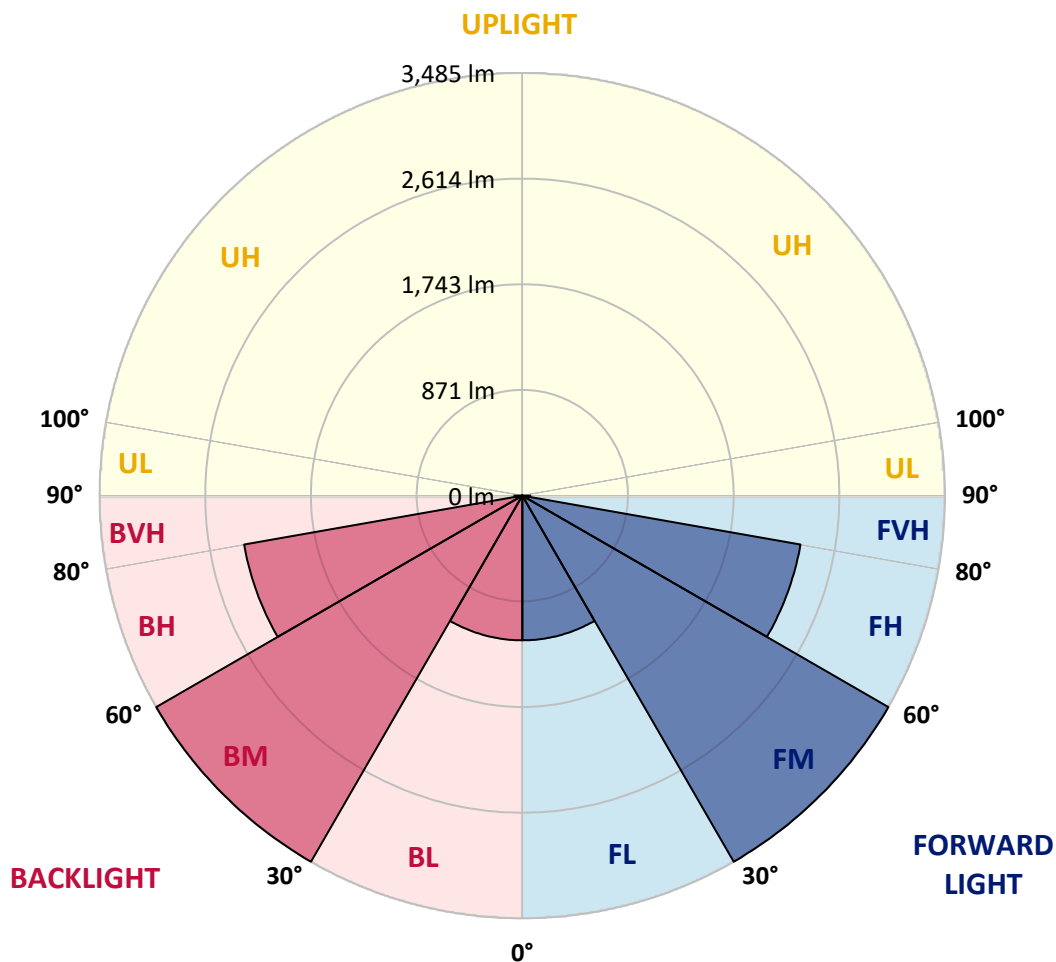
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1192.5	8.4			
FM	(30°-60°)	3485.2	24.6			
FH	(60°-80°)	2328.5	16.5			G2/5000
FVH	(80°-90°)	65.3	0.5			G1/100
BL	(0°-30°)	1192.5	8.4	B3/2500		
BM	(30°-60°)	3485.2	24.6	B3/5000		
BH	(60°-80°)	2328.5	16.5	B3/2500		G3/2500
BVH	(80°-90°)	65.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2503.8	2503.8	2503.8	2503.8	2503.8	2503.8	2503.8	2503.8	2503.8	2503.8	2503.8
2.5°	2535.9	2534.3	2535.1	2534.3	2536.6	2535.1	2525.7	2517.8	2511.6	2512.4	2510.0
5°	2589.9	2590.7	2591.5	2587.5	2593.0	2589.9	2575.0	2562.5	2550.0	2545.3	2543.7
7.5°	2634.5	2638.5	2640.8	2644.7	2654.1	2654.1	2646.3	2628.3	2600.9	2585.2	2584.4
10°	2679.2	2682.3	2689.4	2701.9	2717.6	2732.4	2729.3	2705.0	2669.8	2643.2	2636.9
12.5°	2694.8	2698.8	2722.3	2758.3	2793.5	2822.5	2822.5	2802.9	2757.5	2716.8	2705.0
15°	2640.0	2647.1	2689.4	2766.1	2858.5	2922.0	2936.1	2908.6	2860.1	2797.4	2783.3
17.5°	2531.2	2548.4	2610.3	2723.8	2877.3	3008.9	3049.6	3036.3	2973.6	2893.8	2877.3
20°	2414.5	2433.3	2499.1	2649.4	2861.7	3059.8	3178.0	3181.2	3103.6	2987.7	2963.5
22.5°	2286.0	2300.1	2384.7	2560.9	2814.7	3071.5	3288.5	3342.5	3237.6	3081.7	3047.3
25°	2141.9	2157.6	2246.1	2436.4	2726.2	3058.2	3389.5	3508.5	3377.8	3182.0	3138.1
27.5°	2004.1	2010.4	2105.1	2298.6	2609.5	3023.8	3463.9	3661.3	3532.8	3265.0	3209.4
30°	1871.7	1886.6	1970.4	2161.5	2475.6	2956.4	3528.1	3835.1	3699.6	3351.9	3280.6
32.5°	1731.6	1749.6	1840.4	2033.9	2341.6	2855.4	3567.3	4025.4	3932.2	3492.9	3416.9
35°	1596.9	1608.6	1700.2	1888.2	2210.9	2737.9	3574.3	4240.0	4232.2	3706.7	3605.7
37.5°	1459.0	1476.3	1568.7	1748.8	2072.2	2613.4	3539.1	4467.9	4594.0	4003.5	3894.6
40°	1326.7	1341.5	1432.4	1614.1	1914.8	2461.5	3455.3	4676.2	5016.1	4308.9	4154.6
42.5°	1182.6	1186.5	1285.9	1470.8	1760.5	2285.3	3334.7	4861.8	5486.8	4718.5	4526.6
45°	1018.9	1029.1	1121.5	1303.2	1583.5	2087.9	3171.0	5015.3	6083.6	5286.3	5024.7
47.5°	855.2	863.8	948.4	1127.7	1390.1	1861.6	2918.8	5150.0	6696.0	6007.6	5664.6
50°	695.4	700.1	769.1	928.0	1172.4	1623.5	2606.3	5193.1	7388.3	7028.8	6591.0
52.5°	549.8	556.8	609.3	733.8	939.8	1342.3	2268.8	5086.6	8196.5	8239.6	7622.5
55°	445.6	448.0	487.1	578.8	734.6	1047.9	1861.6	4789.8	9065.8	9791.0	9004.0
57.5°	383.7	385.3	407.2	458.1	565.4	790.2	1444.1	4228.3	9846.6	11608.7	10596.9
60°	348.5	349.3	361.8	391.6	448.0	606.2	1034.5	3435.7	10617.3	13631.6	12576.7
62.5°	326.6	326.6	335.2	351.6	379.0	465.2	749.5	2478.7	11145.1	15684.3	15017.0
65°	305.4	305.4	311.7	323.4	338.3	380.6	553.7	1616.4	11131.8	17179.3	17471.4
67.5°	281.2	281.2	285.9	297.6	306.2	327.4	427.6	1058.8	9999.3	17146.4	18810.6
70°	252.2	252.2	258.4	268.6	275.7	289.0	337.5	724.4	7346.0	14640.3	16729.0
72.5°	223.2	224.0	227.9	238.1	243.6	251.4	280.4	507.5	4506.3	9968.8	11697.2
75°	191.1	192.7	196.6	206.8	211.5	214.6	236.5	361.8	2279.8	5374.8	6119.6
77.5°	154.3	157.4	159.8	170.7	173.9	178.6	195.0	261.6	1000.9	1931.3	1948.5
80°	112.8	116.7	123.7	133.9	136.3	139.4	148.8	185.6	453.4	881.8	957.8
82.5°	83.0	88.5	79.9	93.2	93.2	89.3	104.9	124.5	208.3	873.2	1044.7
85°	45.4	46.2	41.5	47.8	50.9	50.1	55.6	61.1	101.0	582.7	600.7
87.5°	11.0	11.7	12.5	14.9	18.0	18.0	19.6	17.2	32.9	188.7	108.1
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)