

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: P454643

Luminaire Tested: **GALN-SA5D-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454643  
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-SA5D-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 35220 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

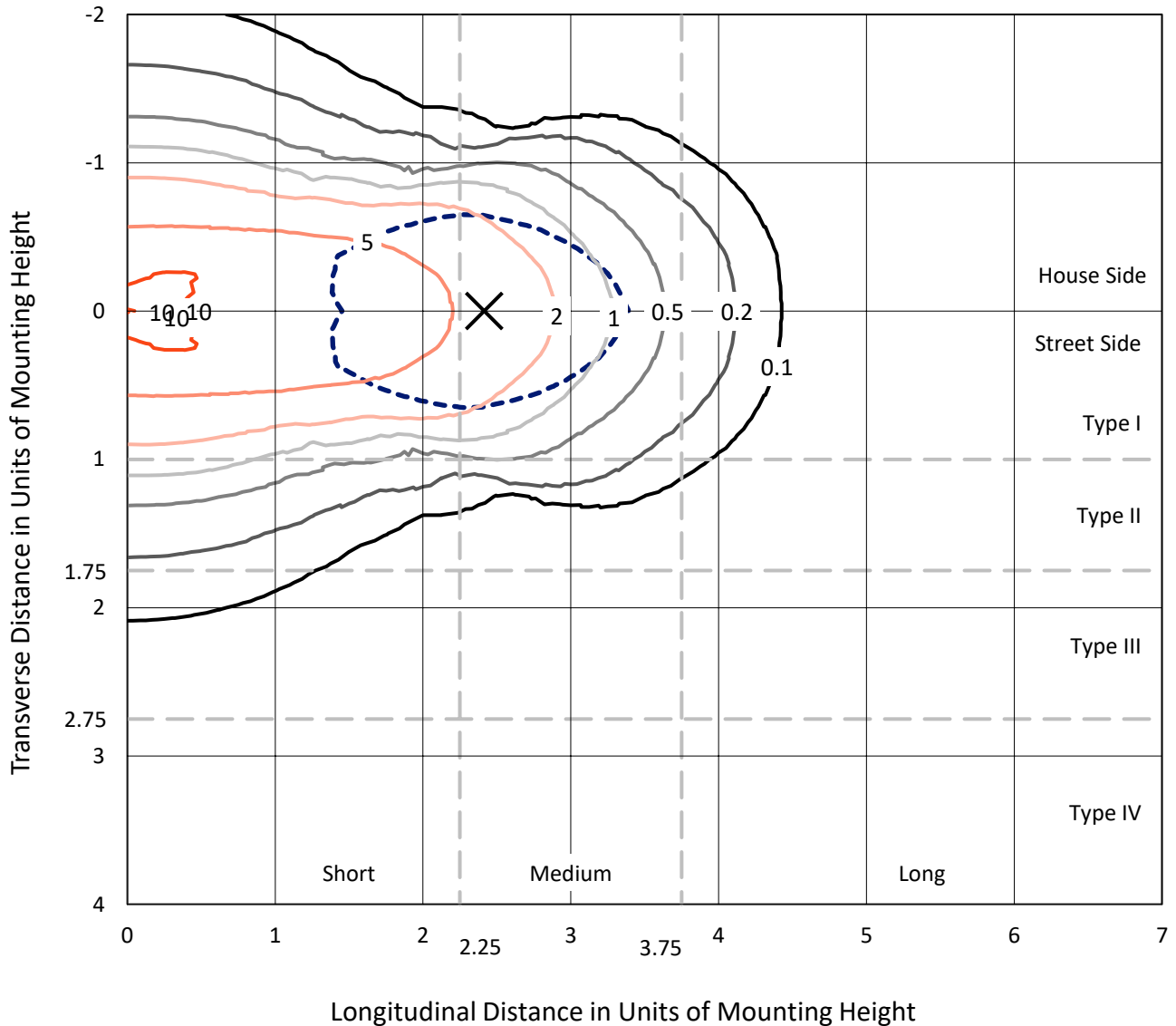
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

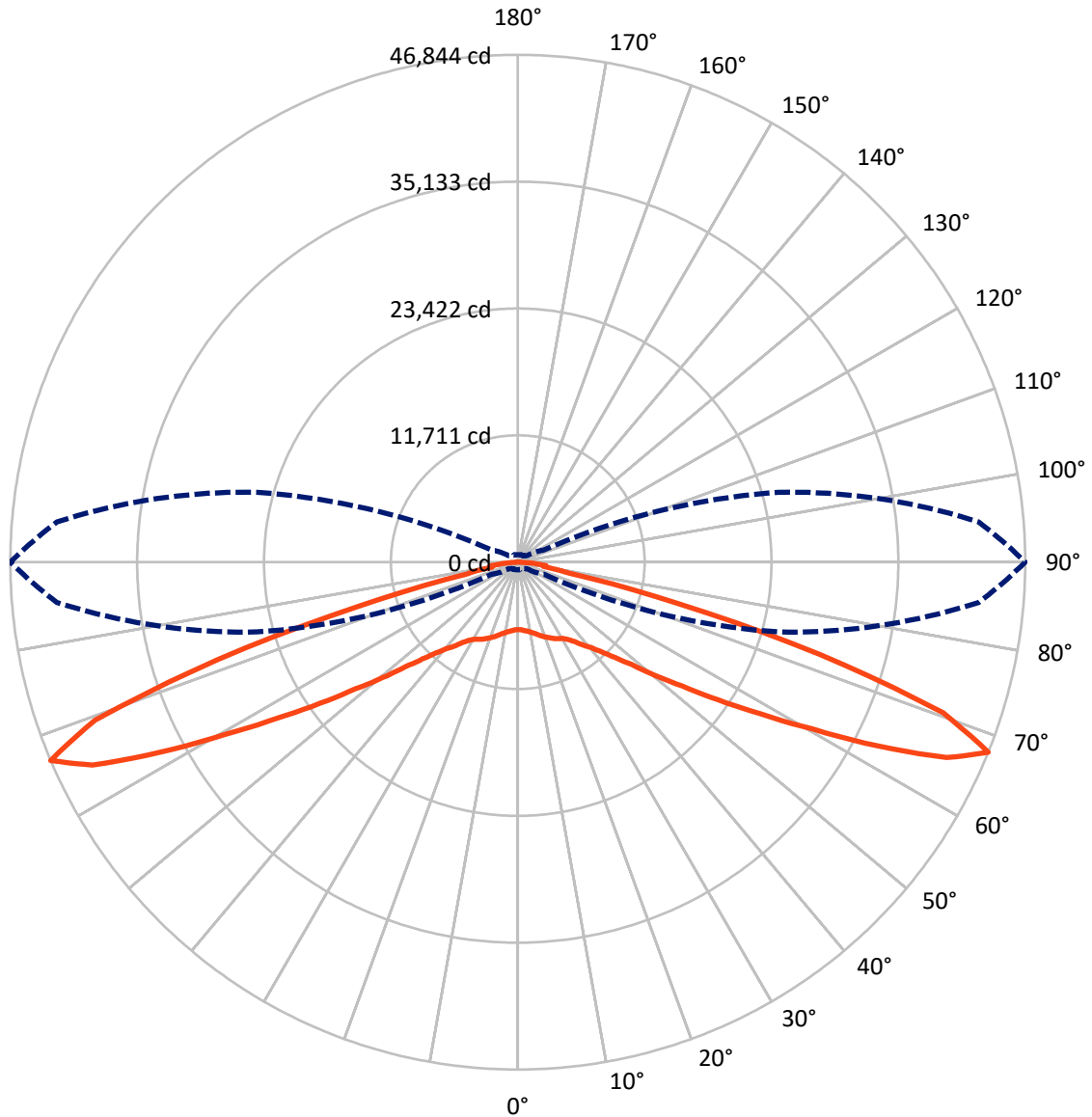
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	17610.0	0.0	17610.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17610.0	0.0	17610.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35220.0	0.0	35220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.6	1.8
10°-20°	1988.9	5.6
20°-30°	3328.9	9.5
30°-40°	4509.8	12.8
40°-50°	5712.4	16.2
50°-60°	7136.2	20.3
60°-70°	8388.3	23.8
70°-80°	3208.9	9.1
80°-90°	325.1	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°	35220.0	100.0
0°-180°	35220.0	100.0

**Coefficient of Utilization**



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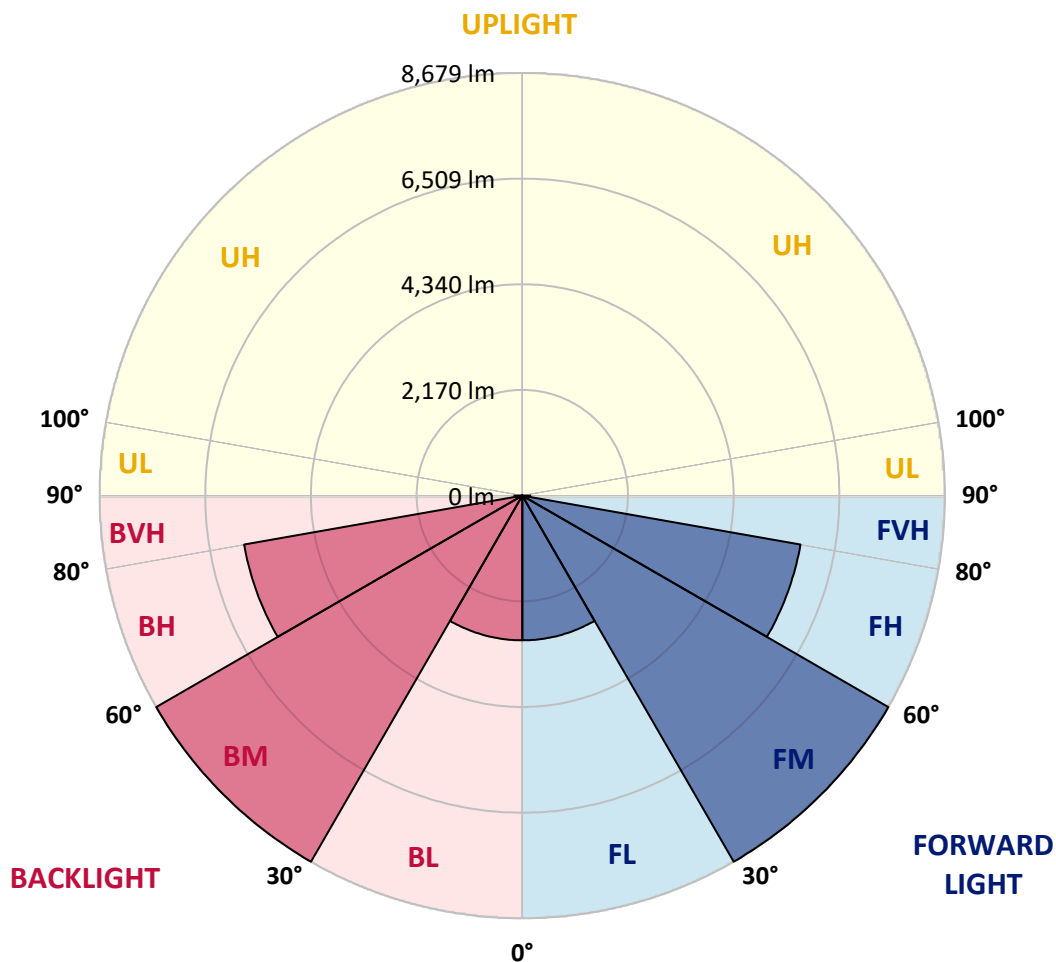
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2969.7	8.4			
FM	(30°-60°)	8679.2	24.6			
FH	(60°-80°)	5798.6	16.5			G3/7500
FVH	(80°-90°)	162.6	0.5			G2/225
BL	(0°-30°)	2969.7	8.4	B4/5000		
BM	(30°-60°)	8679.2	24.6	B5		
BH	(60°-80°)	5798.6	16.5	B5		G5
BVH	(80°-90°)	162.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6235.0	6235.0	6235.0	6235.0	6235.0	6235.0	6235.0	6235.0	6235.0	6235.0	6235.0
2.5°	6315.0	6311.1	6313.0	6311.1	6316.9	6313.0	6289.6	6270.1	6254.5	6256.5	6250.6
5°	6449.6	6451.5	6453.5	6443.7	6457.4	6449.6	6412.5	6381.3	6350.1	6338.4	6334.5
7.5°	6560.7	6570.5	6576.3	6586.1	6609.5	6609.5	6590.0	6545.1	6476.9	6437.9	6435.9
10°	6671.9	6679.7	6697.3	6728.5	6767.5	6804.5	6796.7	6736.3	6648.5	6582.2	6566.6
12.5°	6710.9	6720.7	6779.2	6868.9	6956.6	7028.8	7028.8	6980.0	6866.9	6765.5	6736.3
15°	6574.4	6591.9	6697.3	6888.4	7118.5	7276.5	7311.6	7243.3	7122.4	6966.4	6931.3
17.5°	6303.3	6346.2	6500.3	6783.1	7165.3	7493.0	7594.4	7561.2	7405.2	7206.3	7165.3
20°	6012.7	6059.5	6223.3	6597.8	7126.3	7619.7	7914.2	7922.0	7728.9	7440.3	7379.8
22.5°	5692.9	5728.0	5938.6	6377.4	7009.3	7649.0	8189.2	8323.8	8062.4	7674.3	7588.5
25°	5334.0	5373.0	5593.4	6067.3	6788.9	7615.8	8440.8	8737.2	8411.5	7924.0	7814.8
27.5°	4990.8	5006.4	5242.3	5724.1	6498.3	7530.0	8626.1	9117.5	8797.7	8130.7	7992.2
30°	4661.2	4698.2	4906.9	5382.8	6164.8	7362.3	8786.0	9550.5	9213.1	8347.2	8169.7
32.5°	4312.1	4356.9	4583.2	5064.9	5831.3	7110.7	8883.5	10024.4	9792.3	8698.2	8509.1
35°	3976.6	4005.9	4234.1	4702.1	5505.6	6818.2	8901.1	10558.8	10539.3	9230.7	8979.1
37.5°	3633.4	3676.3	3906.4	4355.0	5160.4	6508.1	8813.3	11126.3	11440.3	9969.8	9698.7
40°	3303.8	3340.8	3567.1	4019.5	4768.4	6129.7	8604.6	11645.1	12491.5	10730.4	10346.2
42.5°	2944.9	2954.7	3202.4	3662.6	4384.2	5690.9	8304.3	12107.3	13663.6	11750.4	11272.6
45°	2537.3	2562.7	2792.8	3245.3	3943.5	5199.4	7896.7	12489.6	15149.8	13164.4	12513.0
47.5°	2129.7	2151.2	2361.8	2808.4	3461.7	4635.8	7268.7	12825.0	16674.9	14960.6	14106.4
50°	1731.8	1743.5	1915.2	2311.1	2919.6	4042.9	6490.5	12932.3	18398.9	17503.7	16413.5
52.5°	1369.1	1386.6	1517.3	1827.4	2340.3	3342.8	5650.0	12667.1	20411.6	20518.9	18982.0
55°	1109.7	1115.6	1213.1	1441.3	1829.4	2609.5	4635.8	11927.9	22576.4	24382.4	22422.3
57.5°	955.6	959.5	1014.1	1140.9	1408.1	1967.8	3596.3	10529.5	24520.8	28909.0	26389.2
60°	867.9	869.8	901.0	975.1	1115.6	1509.5	2576.3	8555.9	26439.9	33946.5	31319.5
62.5°	813.3	813.3	834.7	875.7	943.9	1158.5	1866.4	6172.6	27754.4	39058.2	37396.6
65°	760.6	760.6	776.2	805.5	842.5	947.8	1378.8	4025.4	27721.2	42781.3	43508.7
67.5°	700.1	700.1	711.9	741.1	762.6	815.2	1064.9	2636.8	24901.1	42699.4	46843.7
70°	628.0	628.0	643.6	668.9	686.5	719.7	840.6	1804.0	18293.6	36458.5	41659.9
72.5°	555.8	557.8	567.5	592.9	606.5	626.0	698.2	1263.8	11221.9	24825.1	29129.3
75°	475.9	479.8	489.5	514.9	526.6	534.4	589.0	901.0	5677.3	13384.8	15239.5
77.5°	384.2	392.0	397.9	425.2	433.0	444.7	485.6	651.4	2492.5	4809.4	4852.3
80°	280.8	290.6	308.1	333.5	339.3	347.1	370.6	462.2	1129.2	2196.0	2385.2
82.5°	206.7	220.4	198.9	232.1	232.1	222.3	261.3	310.1	518.8	2174.6	2601.7
85°	113.1	115.1	103.4	119.0	126.8	124.8	138.5	152.1	251.6	1451.0	1495.9
87.5°	27.3	29.3	31.2	37.1	44.9	44.9	48.8	42.9	81.9	470.0	269.1
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)