

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: P455560

Luminaire Tested: **GALN-SA6D-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43103 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

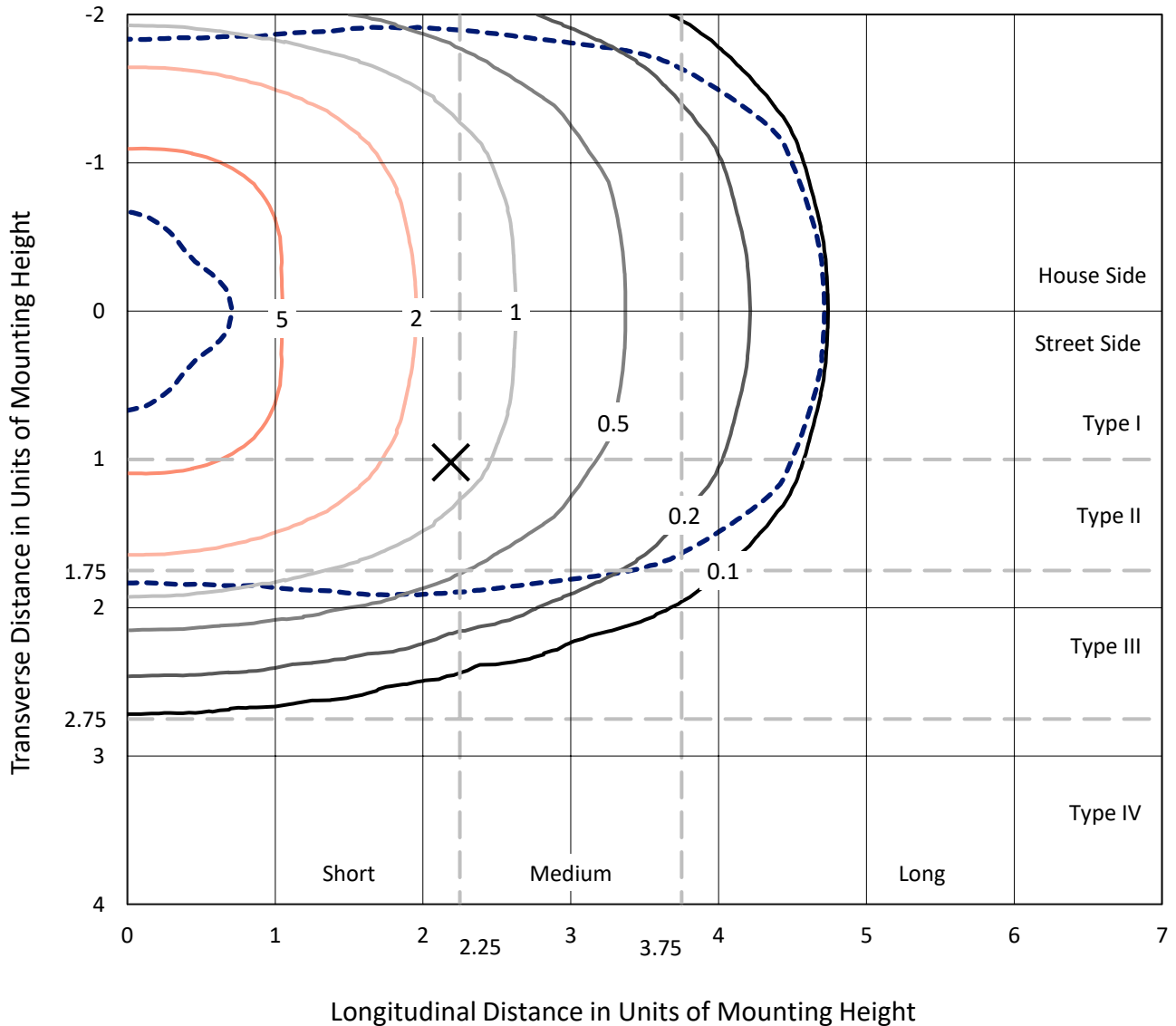
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

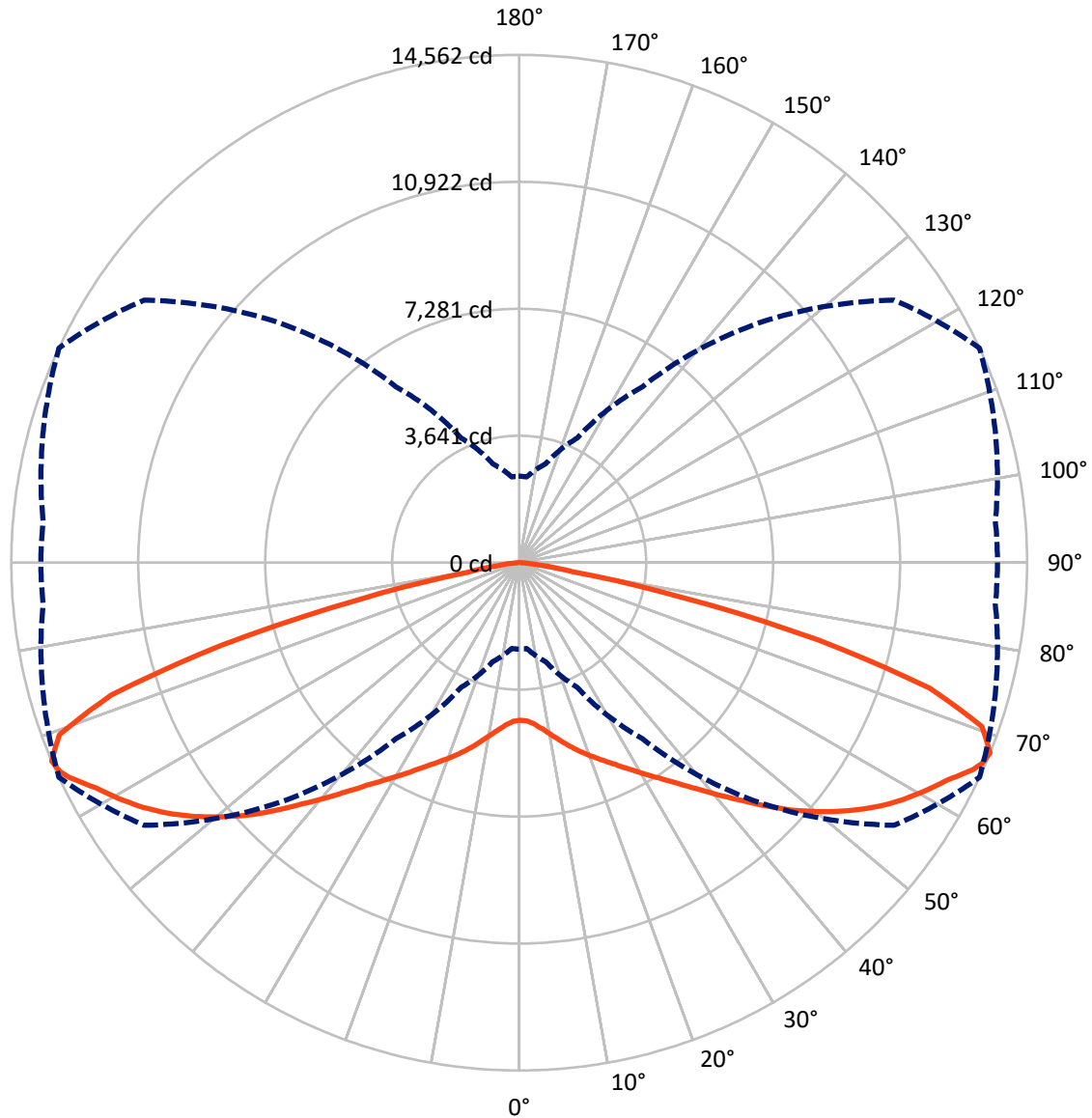
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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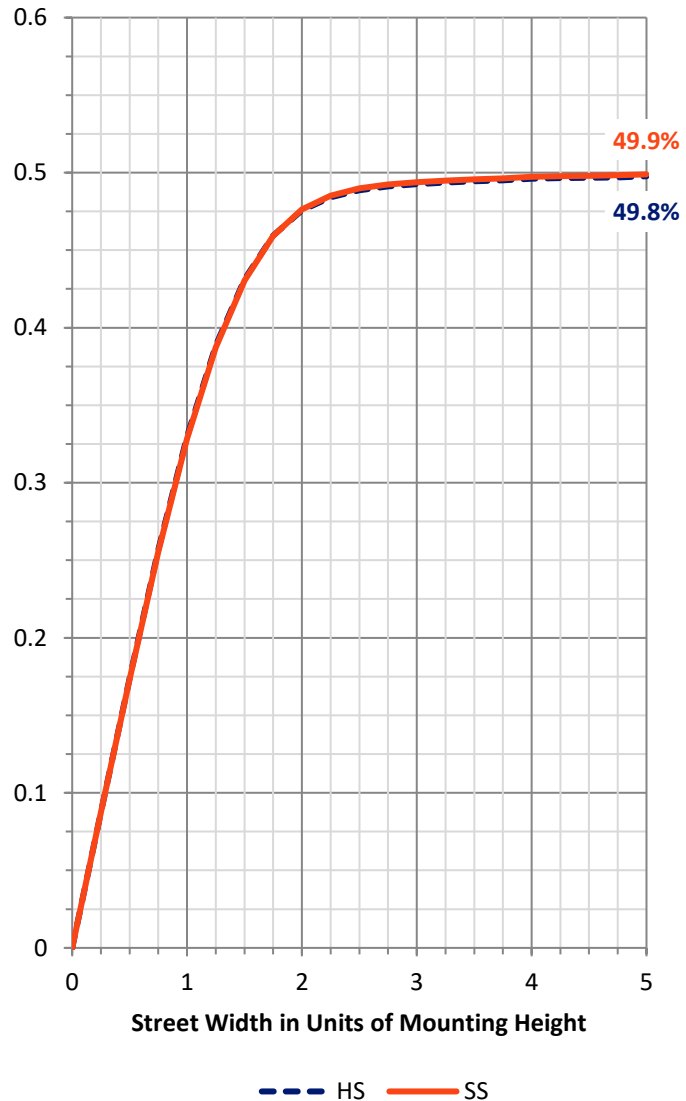
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21551.5	0.0	21551.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21551.5	0.0	21551.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43103.0	0.0	43103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.3	1.0
10°-20°	1490.3	3.5
20°-30°	2915.1	6.8
30°-40°	4958.2	11.5
40°-50°	7847.3	18.2
50°-60°	10405.3	24.1
60°-70°	9815.4	22.8
70°-80°	4852.3	11.3
80°-90°	373.9	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°	43103.0	100.0
0°-180°	43103.0	100.0

**Coefficient of Utilization**



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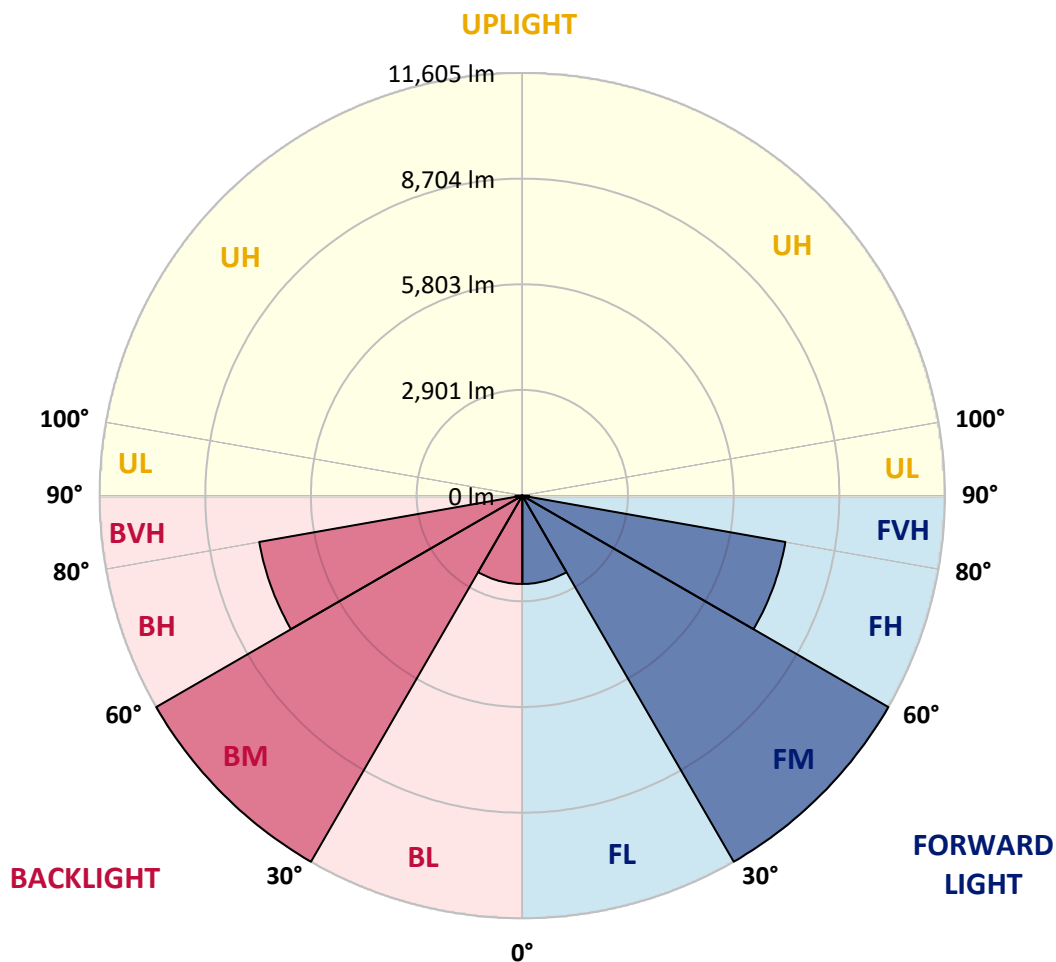
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2425.3	5.6			
FM	(30°-60°)	11605.4	26.9			
FH	(60°-80°)	7333.8	17.0			G3/7500
FVH	(80°-90°)	187.0	0.4			G2/225
BL	(0°-30°)	2425.3	5.6	B3/2500		
BM	(30°-60°)	11605.4	26.9	B5		
BH	(60°-80°)	7333.8	17.0	B5		G5
BVH	(80°-90°)	187.0	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4514.7	4514.7	4514.7	4514.7	4514.7	4514.7	4514.7	4514.7	4514.7	4514.7	4514.7
2.5°	4491.6	4496.2	4500.8	4507.7	4517.0	4530.8	4540.1	4547.0	4565.5	4567.8	4565.5
5°	4475.4	4480.0	4491.6	4512.3	4542.4	4583.9	4616.3	4655.5	4685.5	4706.3	4701.7
7.5°	4473.1	4482.3	4500.8	4544.7	4602.4	4674.0	4747.9	4814.9	4872.6	4918.8	4911.9
10°	4510.0	4521.6	4551.6	4616.3	4706.3	4810.2	4914.2	5013.5	5096.6	5156.6	5177.4
12.5°	4572.4	4581.6	4637.1	4734.0	4863.4	4992.7	5110.5	5232.8	5348.3	5449.9	5449.9
15°	4680.9	4697.1	4766.4	4907.2	5066.6	5216.7	5336.8	5466.1	5590.8	5706.3	5740.9
17.5°	4831.0	4854.1	4958.0	5138.2	5341.4	5479.9	5593.1	5699.3	5807.9	5918.7	5934.9
20°	5036.6	5059.7	5198.2	5415.3	5655.4	5821.7	5897.9	5923.3	5976.4	6082.7	6096.5
22.5°	5316.0	5339.1	5493.8	5738.6	6006.5	6186.6	6218.9	6158.9	6145.0	6228.2	6237.4
25°	5632.4	5653.1	5831.0	6094.2	6371.3	6567.6	6558.4	6410.6	6327.5	6378.3	6392.1
27.5°	5988.0	6018.0	6198.1	6470.6	6770.8	6944.0	6916.3	6701.6	6523.7	6514.5	6519.1
30°	6442.9	6475.2	6646.1	6907.1	7202.7	7362.0	7304.3	7015.6	6740.8	6648.4	6648.4
32.5°	6923.2	7004.1	7177.3	7449.8	7680.7	7796.2	7708.4	7362.0	6997.1	6867.8	6860.9
35°	7549.1	7592.9	7763.8	8029.4	8202.6	8292.7	8124.1	7752.3	7332.0	7179.6	7158.8
37.5°	8161.0	8198.0	8396.6	8650.6	8860.7	8856.1	8627.5	8216.4	7747.7	7576.8	7562.9
40°	8786.8	8826.1	9052.4	9285.6	9495.8	9477.3	9200.2	8740.7	8241.9	8050.2	8087.1
42.5°	9329.5	9373.4	9629.7	9962.3	10151.6	10147.0	9826.0	9308.7	8789.2	8618.3	8650.6
45°	9823.7	9863.0	10160.9	10541.9	10819.0	10853.7	10502.6	9955.3	9421.9	9202.5	9211.8
47.5°	10172.4	10246.3	10558.1	10994.5	11370.9	11493.3	11149.2	10613.5	9999.2	9770.6	9784.5
50°	10438.0	10484.2	10823.6	11320.1	11795.8	12049.9	11772.8	11223.1	10576.5	10334.1	10366.4
52.5°	10470.3	10525.7	10895.2	11467.9	12077.6	12463.2	12327.0	11818.9	11165.4	10916.0	10985.3
55°	10207.1	10239.4	10680.5	11375.6	12188.4	12770.4	12805.0	12373.2	11726.6	11537.2	11583.4
57.5°	9456.5	9539.7	10098.5	10943.7	12036.0	12934.3	13162.9	12876.6	12294.7	12107.6	12181.5
60°	8225.7	8308.8	8870.0	9941.5	11461.0	12858.1	13458.5	13322.3	12809.6	12659.5	12698.8
62.5°	6445.2	6438.3	7133.4	8447.4	10317.9	12484.0	13677.9	13751.8	13317.7	13128.3	13188.3
65°	4177.5	4198.3	4870.3	6285.9	8592.9	11532.6	13726.4	14299.1	13816.5	13530.1	13574.0
66°	3360.0	3422.4	3992.8	5297.5	7713.0	10909.1	13580.9	14460.8	13968.9	13622.5	13643.3
67.5°	2480.2	2468.6	2937.4	3944.3	6158.9	9724.4	13126.0	14562.4	14142.1	13705.6	13714.9
70°	1415.6	1413.3	1579.6	2166.1	3621.0	6847.0	11063.8	14075.1	14493.1	14005.8	13980.4
72.5°	1034.6	1027.6	1050.7	1196.2	1766.6	3457.0	7632.2	12301.6	14313.0	13957.3	13885.8
75°	868.3	863.7	859.1	877.5	990.7	1565.7	4050.5	8849.2	12419.4	13100.6	13026.7
77.5°	709.0	709.0	711.3	706.6	711.3	824.4	1678.9	4743.3	7562.9	8442.8	8648.3
80°	554.2	551.9	591.2	575.0	538.1	528.8	743.6	1526.4	2510.2	2496.3	2059.9
82.5°	408.7	381.0	450.3	438.8	397.2	337.2	434.1	651.2	838.3	545.0	404.1
85°	258.6	256.3	318.7	291.0	242.5	159.3	207.8	279.4	346.4	210.1	170.9
87.5°	46.2	43.9	101.6	73.9	73.9	46.2	57.7	76.2	113.2	78.5	57.7
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)