

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: P455555

Luminaire Tested: **GALN-SA6D-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43817 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

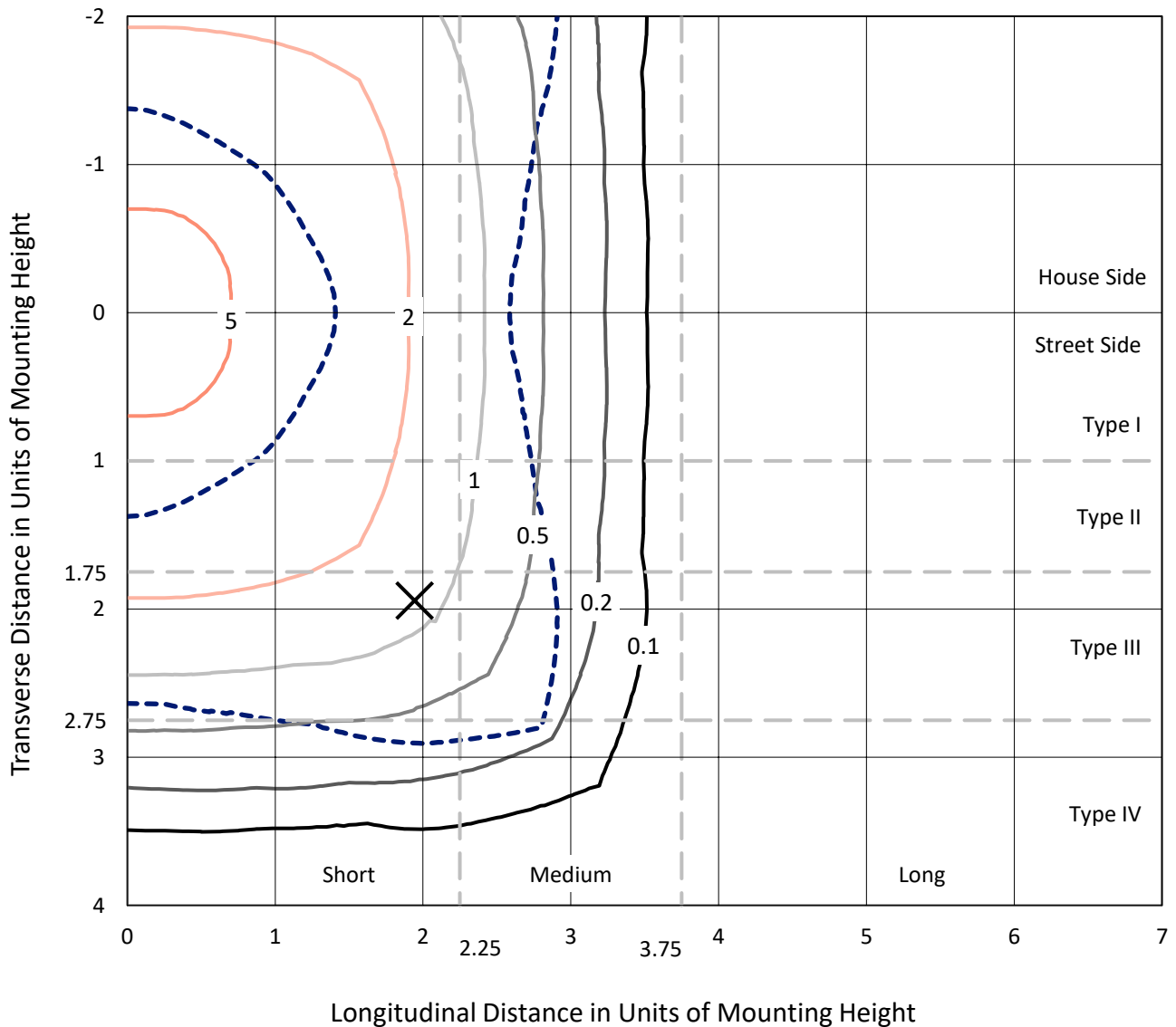
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

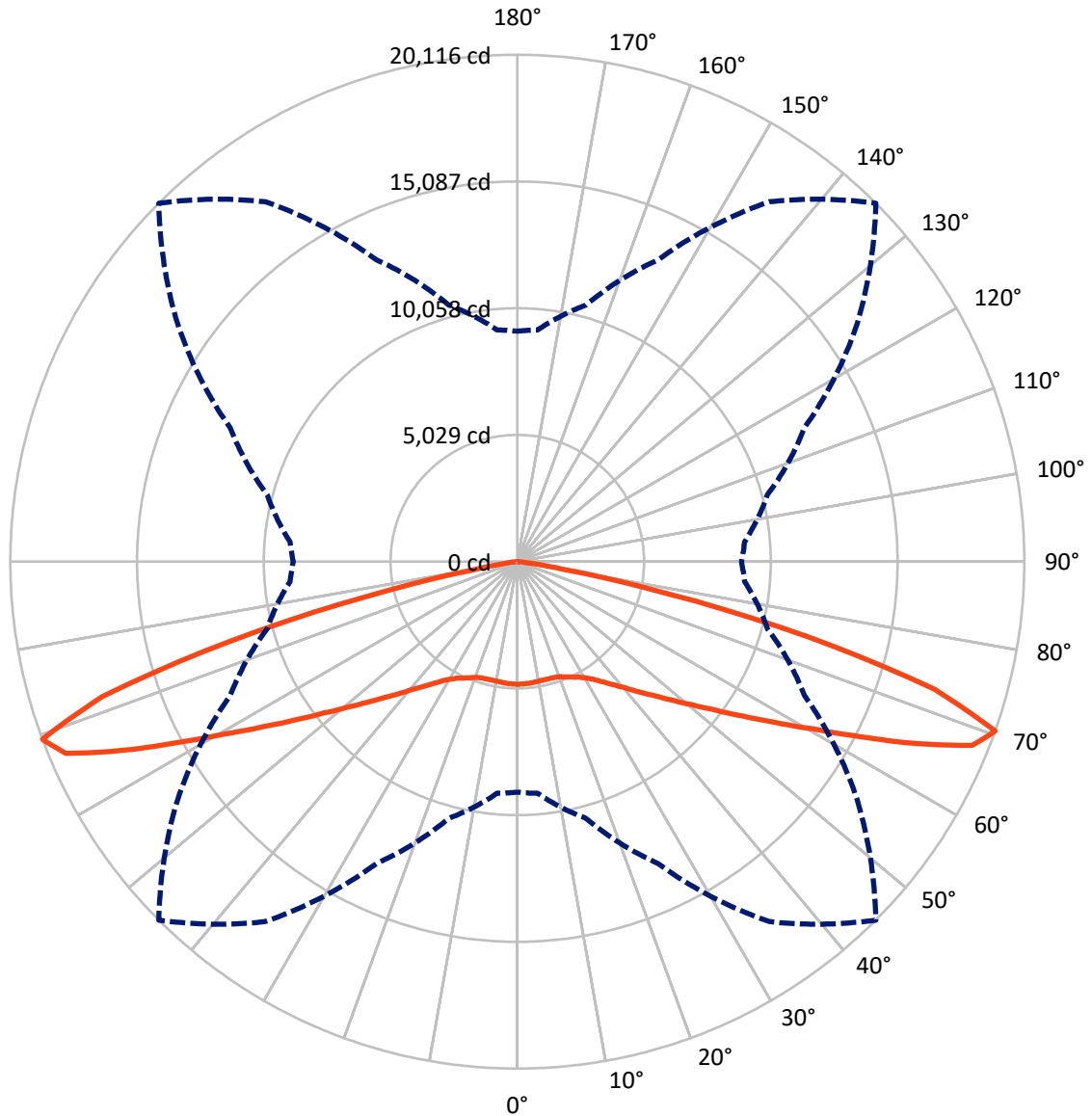
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21908.5	0.0	21908.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21908.5	0.0	21908.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43817.0	0.0	43817.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.4	1.1
10°-20°	1354.0	3.1
20°-30°	2315.7	5.3
30°-40°	3675.5	8.4
40°-50°	5929.5	13.5
50°-60°	9647.5	22.0
60°-70°	13985.4	31.9
70°-80°	6203.4	14.2
80°-90°	244.7	0.6
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°	43817.0	100.0
0°-180°	43817.0	100.0

**Coefficient of Utilization**



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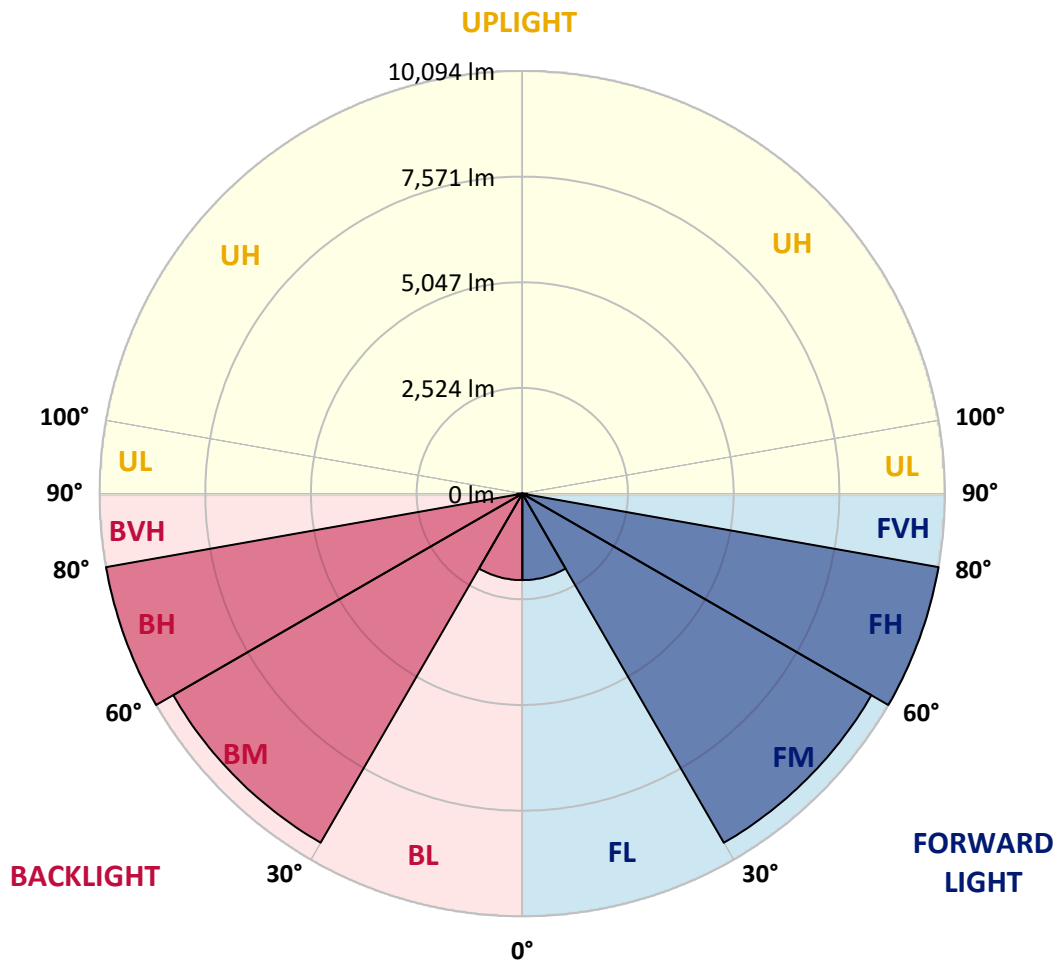
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.5	4.7			
FM (30°-60°)	9626.2	22.0			
FH (60°-80°)	10094.4	23.0			G4/12000
FVH (80°-90°)	122.3	0.3			G2/225
BL (0°-30°)	2065.5	4.7	B3/2500		
BM (30°-60°)	9626.2	22.0	B5		
BH (60°-80°)	10094.4	23.0	B5		G4/12000
BVH (80°-90°)	122.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4865.7	4865.7	4865.7	4865.7	4865.7	4865.7	4865.7	4865.7	4865.7	4865.7	4865.7
2.5°	4865.7	4870.3	4863.4	4858.7	4856.4	4856.4	4854.1	4856.4	4870.3	4872.6	4865.7
5°	4851.8	4856.4	4854.1	4849.5	4847.2	4847.2	4844.9	4842.6	4854.1	4858.7	4856.4
7.5°	4833.3	4835.7	4833.3	4831.0	4833.3	4831.0	4824.1	4819.5	4828.7	4828.7	4826.4
10°	4801.0	4805.6	4803.3	4805.6	4810.2	4810.2	4801.0	4791.8	4794.1	4789.5	4789.5
12.5°	4761.8	4768.7	4771.0	4780.2	4791.8	4805.6	4784.8	4764.1	4759.4	4757.1	4754.8
15°	4736.4	4743.3	4752.5	4761.8	4782.5	4812.6	4782.5	4750.2	4741.0	4731.7	4727.1
17.5°	4729.4	4738.7	4752.5	4766.4	4794.1	4824.1	4798.7	4766.4	4743.3	4729.4	4724.8
20°	4747.9	4754.8	4775.6	4801.0	4840.3	4870.3	4844.9	4810.2	4775.6	4754.8	4747.9
22.5°	4784.8	4796.4	4821.8	4868.0	4923.4	4967.3	4932.6	4874.9	4819.5	4791.8	4782.5
25°	4865.7	4874.9	4904.9	4967.3	5031.9	5073.5	5036.6	4969.6	4893.4	4856.4	4844.9
27.5°	4988.1	5001.9	5034.2	5108.1	5161.3	5184.4	5159.0	5112.8	5057.3	5018.1	5008.8
30°	5161.3	5177.4	5225.9	5304.4	5339.1	5352.9	5341.4	5311.4	5272.1	5230.5	5221.3
32.5°	5394.5	5403.7	5459.2	5533.1	5565.4	5570.0	5556.1	5542.3	5477.6	5408.4	5403.7
35°	5655.4	5671.6	5738.6	5826.3	5856.4	5858.7	5831.0	5810.2	5734.0	5678.5	5678.5
37.5°	6001.8	6008.8	6073.4	6172.7	6205.1	6195.8	6182.0	6163.5	6082.7	6011.1	6013.4
40°	6408.3	6422.1	6477.6	6593.0	6593.0	6581.5	6590.7	6576.9	6496.0	6426.8	6429.1
42.5°	6890.9	6897.8	6964.8	7087.2	7078.0	7054.9	7064.1	7045.6	6994.8	6916.3	6888.6
45°	7405.9	7433.6	7549.1	7666.8	7648.4	7574.5	7611.4	7606.8	7560.6	7442.8	7449.8
47.5°	8027.1	8073.3	8184.1	8325.0	8304.2	8188.7	8230.3	8258.0	8193.4	8064.0	8040.9
50°	8726.8	8756.8	8920.8	9052.4	9033.9	8911.5	9006.2	9010.8	8849.2	8666.8	8666.8
52.5°	9472.7	9502.7	9724.4	9929.9	9941.5	9763.7	9839.9	9835.3	9572.0	9331.8	9285.6
55°	10308.7	10322.5	10608.9	10911.4	10976.0	10802.9	10812.1	10719.7	10377.9	10098.5	10073.1
57.5°	11172.3	11223.1	11539.5	11932.1	12123.8	12017.5	11969.0	11721.9	11391.7	11070.7	11054.6
60°	12128.4	12130.7	12541.7	13005.9	13393.9	13465.5	13266.9	12936.6	12509.4	12084.5	12066.0
62.5°	12791.2	12890.4	13410.0	14195.2	14890.3	15292.1	14767.9	14075.1	13234.5	12548.7	12479.4
65°	12927.4	12994.4	13786.5	15116.6	16536.8	17402.8	16190.4	14717.1	13283.0	12368.6	12322.4
67.5°	11825.9	11897.5	12964.3	15005.8	17691.5	19467.3	17114.1	14407.7	12460.9	11329.4	11239.3
70°	9147.1	9227.9	10546.5	13209.1	17435.1	20116.2	16456.0	12567.1	10276.3	9054.7	8890.8
72.5°	4863.4	5161.3	6288.2	9066.3	14151.3	17319.7	13493.2	9170.2	6627.7	5417.6	5200.5
75°	1775.8	1812.8	2440.9	4020.5	8232.6	11876.7	8549.0	4373.8	2514.8	1942.1	1842.8
77.5°	734.4	732.0	803.6	1214.7	2990.5	6082.7	3336.9	1284.0	801.3	741.3	732.0
80°	434.1	434.1	478.0	505.7	787.5	1835.9	879.8	572.7	480.3	438.8	445.7
82.5°	194.0	205.5	302.5	318.7	381.0	503.4	424.9	364.9	314.1	217.1	196.3
85°	106.2	92.4	159.3	166.3	182.4	187.1	200.9	198.6	182.4	106.2	108.5
87.5°	20.8	25.4	46.2	34.6	39.3	34.6	46.2	64.7	67.0	36.9	30.0
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)