

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: P455323

Luminaire Tested: **GALN-SA6C-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455323  
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-SA6C-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39821 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

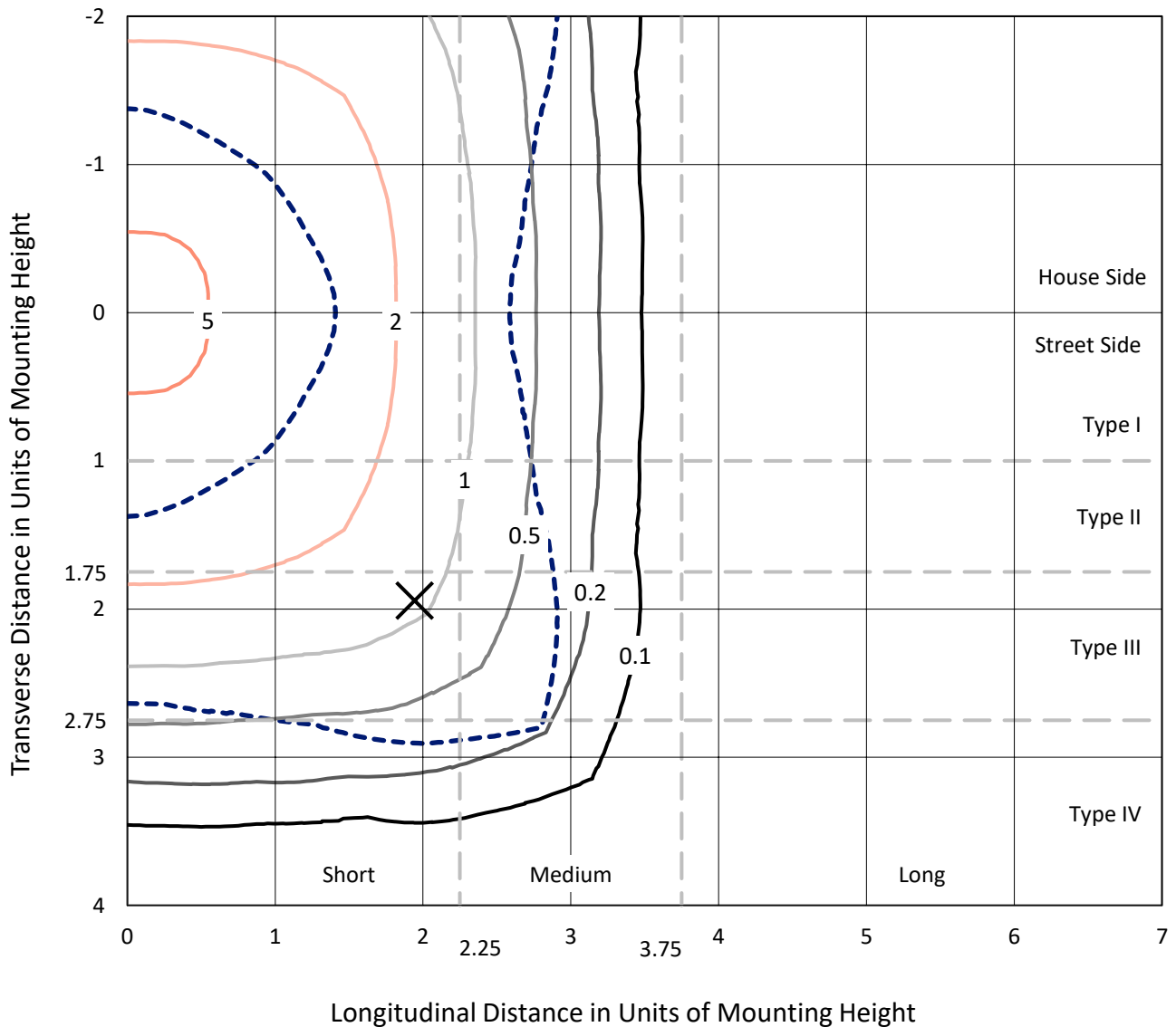
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

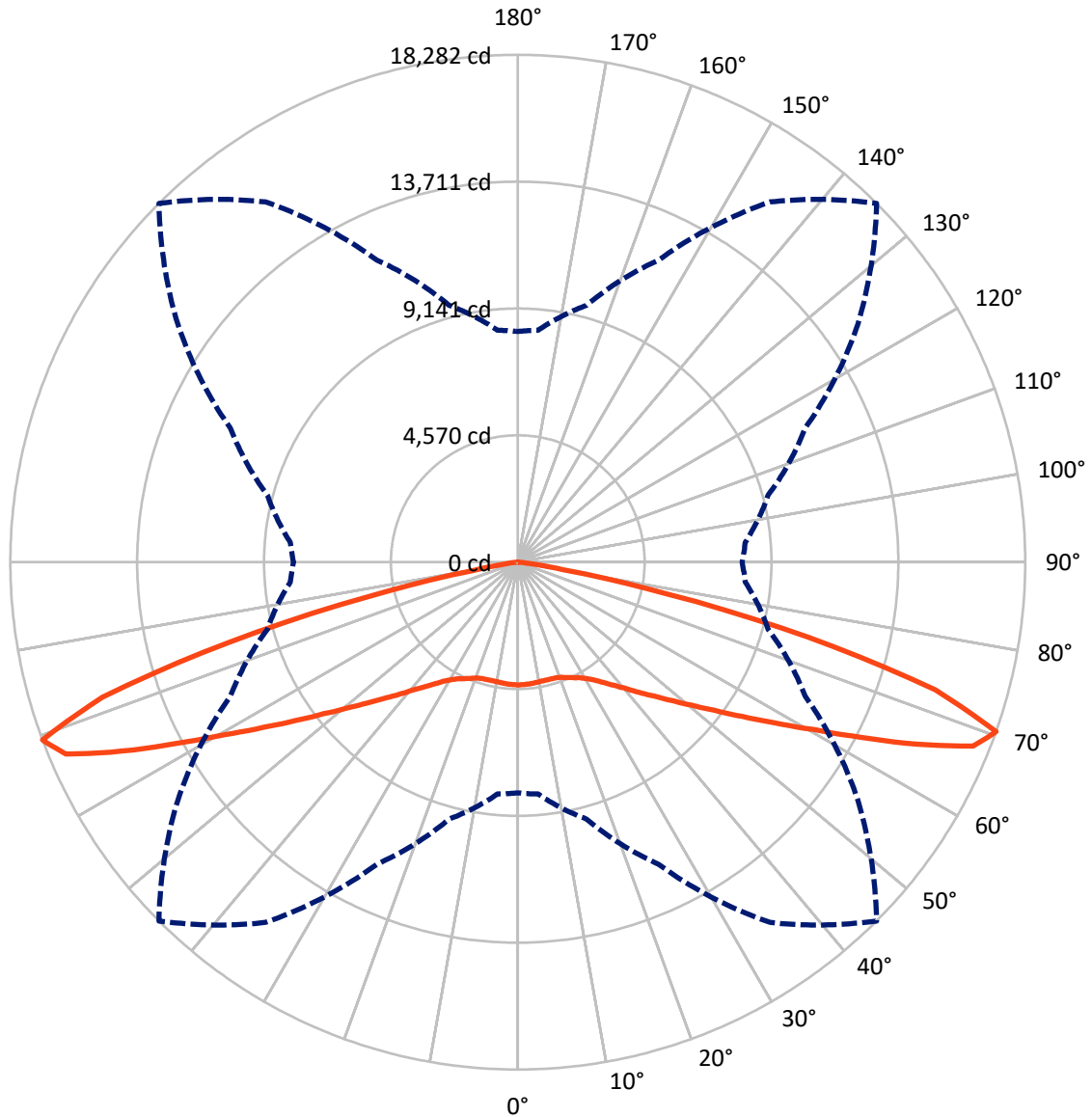
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	19910.5	0.0	19910.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19910.5	0.0	19910.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39821.0	0.0	39821.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.3	1.1
10°-20°	1230.5	3.1
20°-30°	2104.5	5.3
30°-40°	3340.3	8.4
40°-50°	5388.8	13.5
50°-60°	8767.7	22.0
60°-70°	12709.9	31.9
70°-80°	5637.7	14.2
80°-90°	222.4	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°	39821.0	100.0
0°-180°	39821.0	100.0



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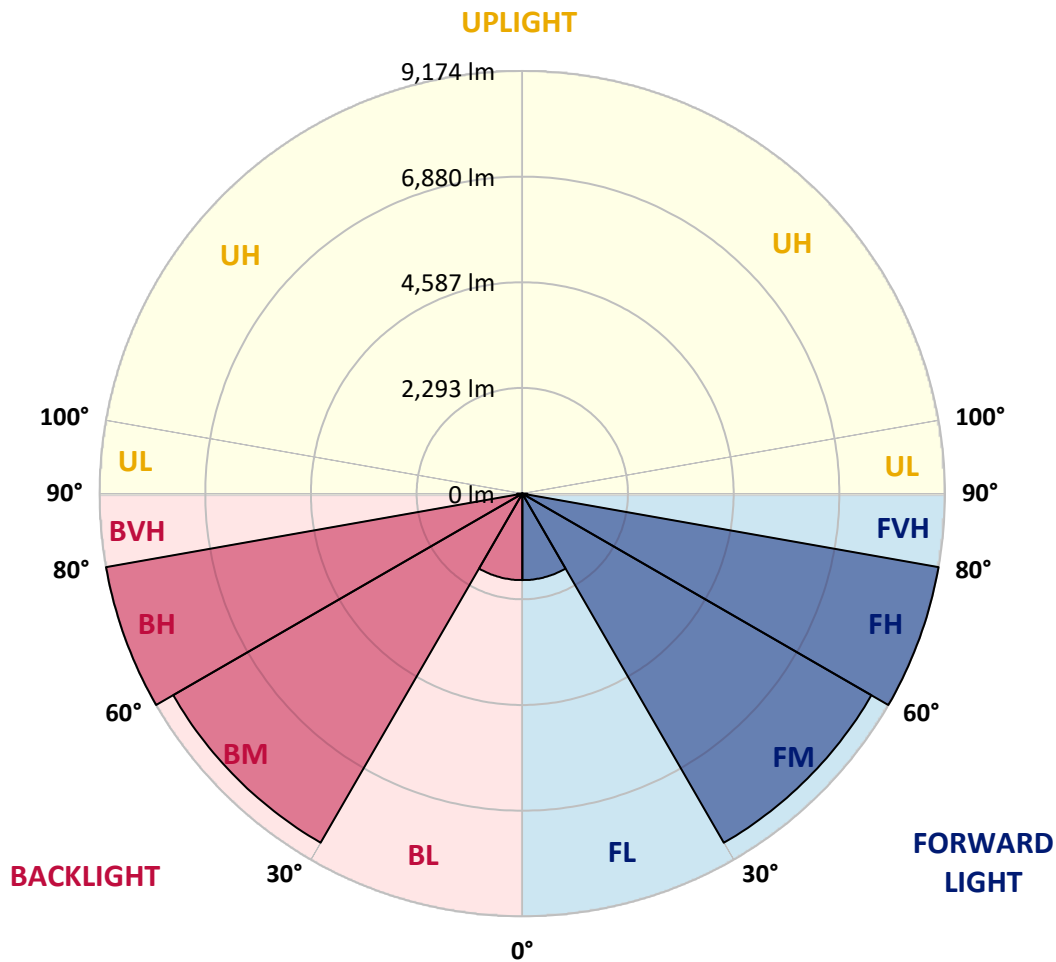
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.2	4.7			
FM (30°-60°)	8748.4	22.0			
FH (60°-80°)	9173.8	23.0			G4/12000
FVH (80°-90°)	111.2	0.3			G2/225
BL (0°-30°)	1877.2	4.7	B3/2500		
BM (30°-60°)	8748.4	22.0	B5		
BH (60°-80°)	9173.8	23.0	B5		G4/12000
BVH (80°-90°)	111.2	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°	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9
2.5°	4421.9	4426.1	4419.8	4415.6	4413.5	4413.5	4411.4	4413.5	4426.1	4428.2	4421.9
5°	4409.3	4413.5	4411.4	4407.2	4405.1	4405.1	4403.0	4400.9	4411.4	4415.6	4413.5
7.5°	4392.6	4394.7	4392.6	4390.5	4392.6	4390.5	4384.2	4380.0	4388.4	4388.4	4386.3
10°	4363.2	4367.4	4365.3	4367.4	4371.6	4371.6	4363.2	4354.8	4356.9	4352.7	4352.7
12.5°	4327.5	4333.8	4335.9	4344.3	4354.8	4367.4	4348.5	4329.6	4325.4	4323.3	4321.2
15°	4304.4	4310.7	4319.1	4327.5	4346.4	4373.7	4346.4	4317.0	4308.6	4300.2	4296.0
17.5°	4298.1	4306.5	4319.1	4331.7	4356.9	4384.2	4361.1	4331.7	4310.7	4298.1	4293.9
20°	4314.9	4321.2	4340.1	4363.2	4398.8	4426.1	4403.0	4371.6	4340.1	4321.2	4314.9
22.5°	4348.5	4359.0	4382.1	4424.0	4474.4	4514.3	4482.8	4430.3	4380.0	4354.8	4346.4
25°	4421.9	4430.3	4457.6	4514.3	4573.0	4610.8	4577.2	4516.4	4447.1	4413.5	4403.0
27.5°	4533.2	4545.8	4575.1	4642.3	4690.6	4711.6	4688.5	4646.5	4596.1	4560.4	4552.1
30°	4690.6	4705.3	4749.3	4820.7	4852.2	4864.8	4854.3	4827.0	4791.3	4753.5	4745.1
32.5°	4902.5	4910.9	4961.3	5028.5	5057.8	5062.0	5049.4	5036.8	4978.1	4915.1	4910.9
35°	5139.7	5154.4	5215.2	5295.0	5322.3	5324.4	5299.2	5280.3	5211.0	5160.7	5160.7
37.5°	5454.5	5460.8	5519.5	5609.8	5639.2	5630.8	5618.2	5601.4	5527.9	5462.9	5465.0
40°	5823.9	5836.4	5886.8	5991.8	5991.8	5981.3	5989.7	5977.1	5903.6	5840.6	5842.7
42.5°	6262.5	6268.8	6329.6	6440.9	6432.5	6411.5	6419.9	6403.1	6356.9	6285.6	6260.4
45°	6730.5	6755.7	6860.6	6967.6	6950.9	6883.7	6917.3	6913.1	6871.1	6764.1	6770.4
47.5°	7295.0	7337.0	7437.7	7565.8	7546.9	7441.9	7479.7	7504.9	7446.1	7328.6	7307.6
50°	7930.9	7958.2	8107.2	8226.9	8210.1	8098.8	8184.9	8189.1	8042.2	7876.4	7876.4
52.5°	8608.8	8636.1	8837.6	9024.4	9034.8	8873.3	8942.5	8938.3	8699.1	8480.8	8438.8
55°	9368.5	9381.1	9641.4	9916.3	9975.1	9817.7	9826.1	9742.1	9431.5	9177.6	9154.5
57.5°	10153.4	10199.6	10487.1	10843.9	11018.1	10921.6	10877.5	10652.9	10352.8	10061.1	10046.4
60°	11022.3	11024.4	11398.0	11819.8	12172.4	12237.4	12057.0	11756.8	11368.6	10982.4	10965.6
62.5°	11624.6	11714.9	12187.1	12900.6	13532.3	13897.5	13421.1	12791.5	12027.6	11404.3	11341.3
65°	11748.5	11809.3	12529.2	13738.0	15028.7	15815.7	14713.9	13374.9	12071.7	11240.6	11198.6
67.5°	10747.4	10812.4	11782.0	13637.3	16078.0	17691.9	15553.4	13093.7	11324.5	10296.2	10214.3
70°	8312.9	8386.4	9584.7	12004.5	15845.1	18281.7	14955.2	11421.1	9339.2	8229.0	8079.9
72.5°	4419.8	4690.6	5714.7	8239.4	12860.8	15740.2	12262.6	8333.9	6023.2	4923.5	4726.2
75°	1613.9	1647.5	2218.3	3653.8	7481.8	10793.5	7769.3	3974.9	2285.5	1765.0	1674.8
77.5°	667.4	665.3	730.3	1103.9	2717.8	5527.9	3032.6	1166.9	728.2	673.7	665.3
80°	394.6	394.6	434.4	459.6	715.7	1668.5	799.6	520.5	436.5	398.8	405.0
82.5°	176.3	186.8	274.9	289.6	346.3	457.5	386.2	331.6	285.4	197.3	178.4
85°	96.5	83.9	144.8	151.1	165.8	170.0	182.6	180.5	165.8	96.5	98.6
87.5°	18.9	23.1	42.0	31.5	35.7	31.5	42.0	58.8	60.9	33.6	27.3
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)