

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: P454396

Luminaire Tested: **GALN-SA5C-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33463 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

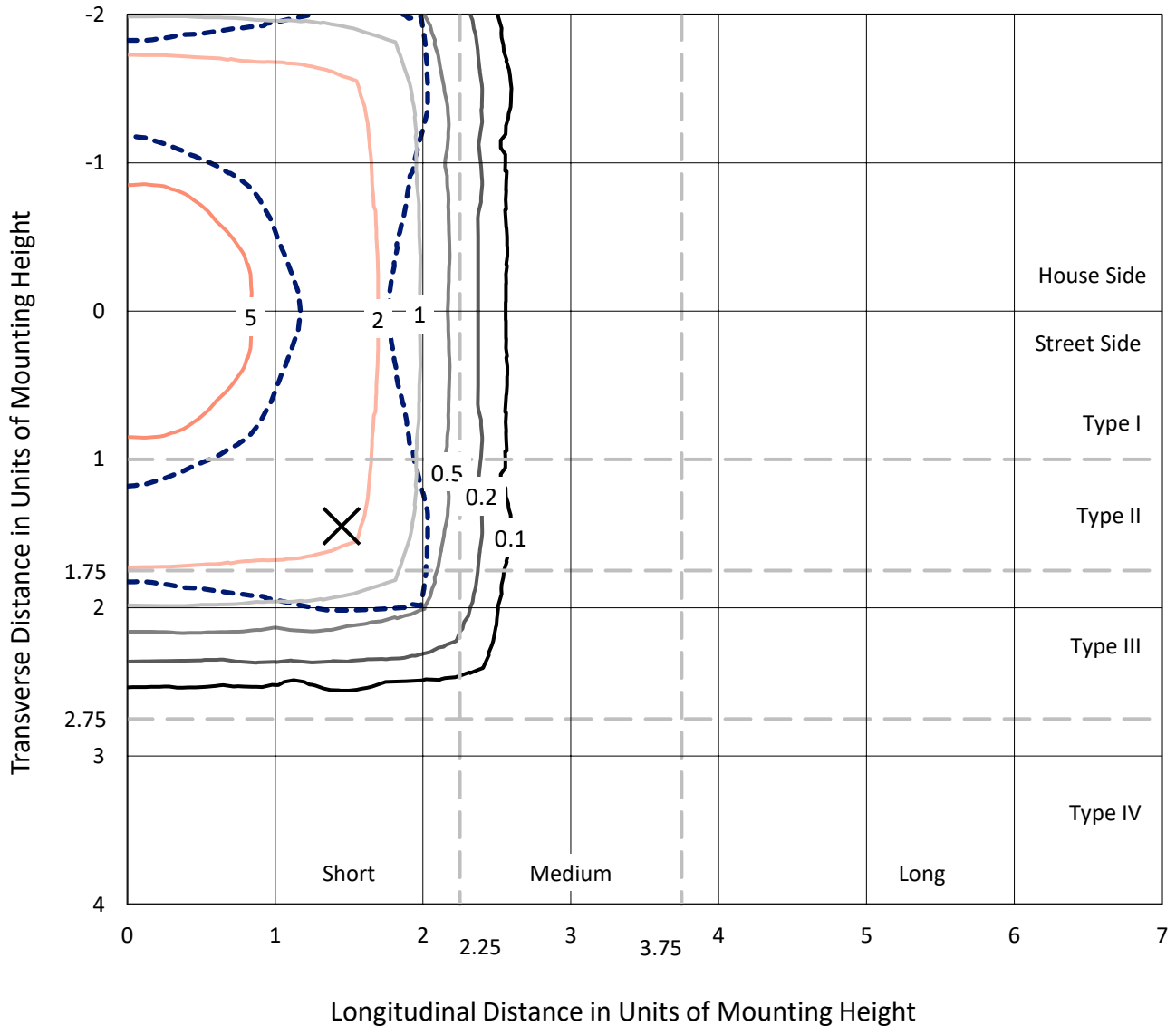
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

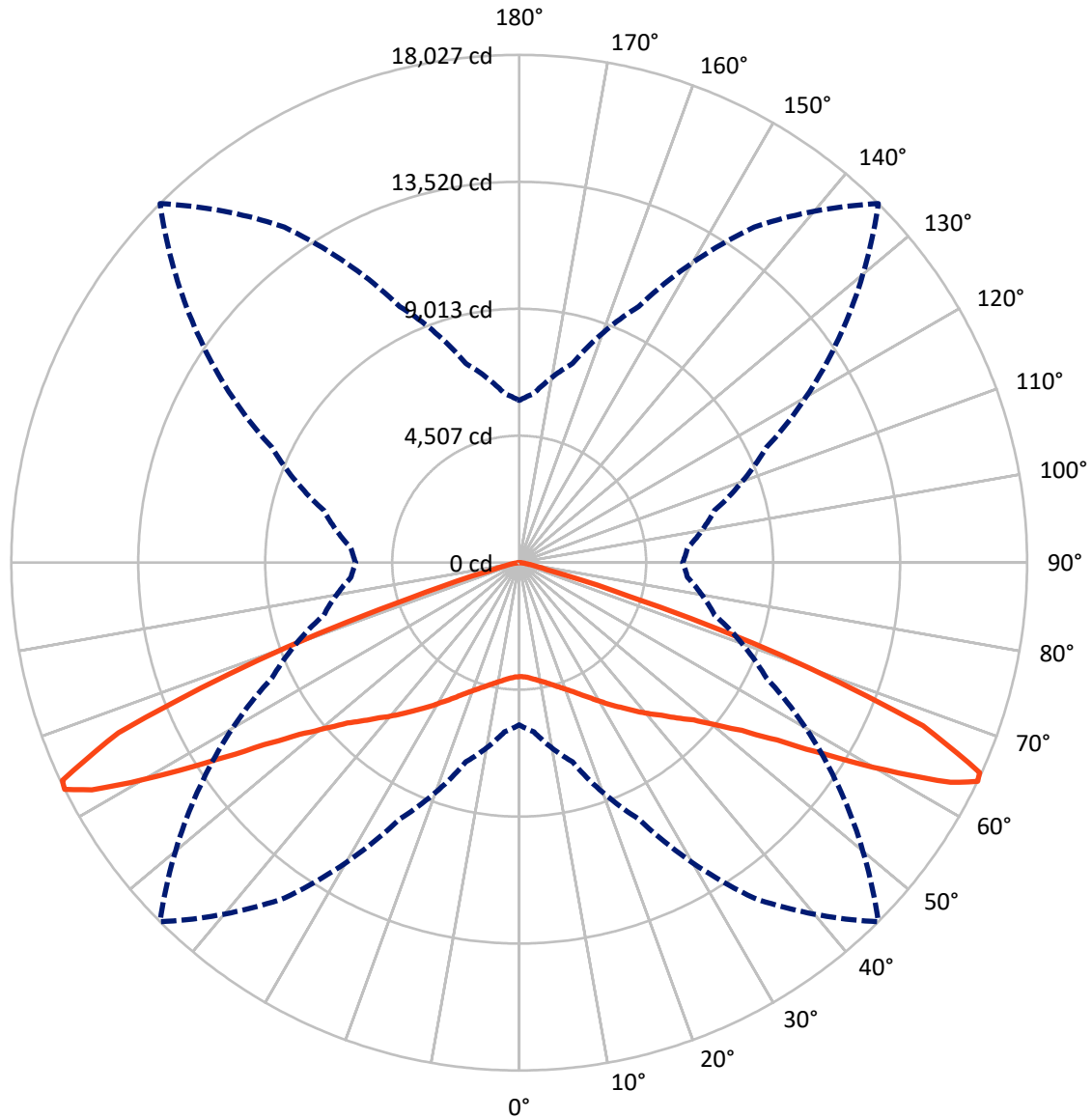
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16731.5	0.0	16731.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16731.5	0.0	16731.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33463.0	0.0	33463.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.4	1.2
10°-20°	1281.7	3.8
20°-30°	2422.1	7.2
30°-40°	4011.2	12.0
40°-50°	6262.2	18.7
50°-60°	9681.2	28.9
60°-70°	8347.9	24.9
70°-80°	946.0	2.8
80°-90°	113.3	0.3
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°	33463.0	100.0
0°-180°	33463.0	100.0

**Coefficient of Utilization**



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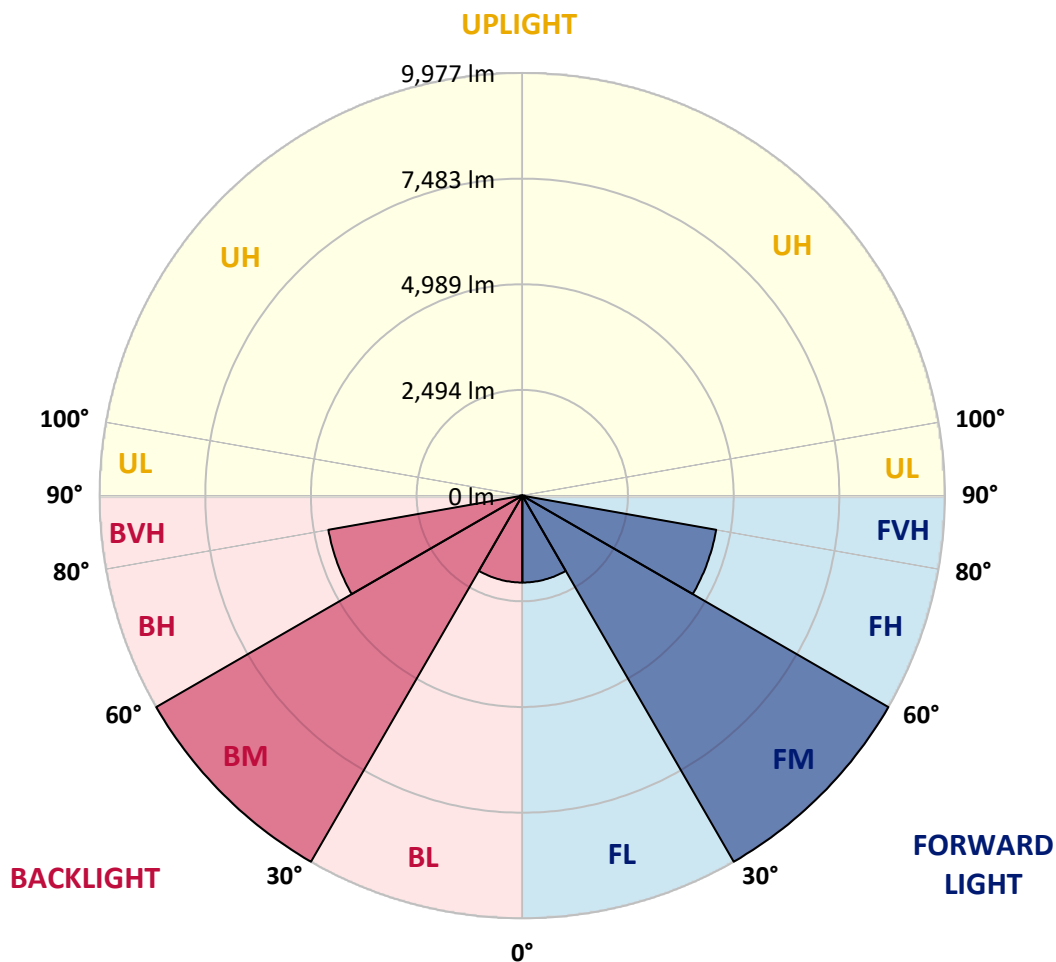
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2050.6	6.1			
FM	(30°-60°)	9977.3	29.8			
FH	(60°-80°)	4647.0	13.9			G2/5000
FVH	(80°-90°)	56.7	0.2			G1/100
BL	(0°-30°)	2050.6	6.1	B3/2500		
BM	(30°-60°)	9977.3	29.8	B5		
BH	(60°-80°)	4647.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	56.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4044.6	4044.6	4044.6	4044.6	4044.6	4044.6	4044.6	4044.6	4044.6	4044.6	4044.6
2.5°	4060.5	4069.4	4062.3	4060.5	4058.7	4058.7	4058.7	4060.5	4067.6	4072.9	4069.4
5°	4111.9	4119.0	4115.5	4113.7	4111.9	4113.7	4110.1	4108.4	4113.7	4113.7	4111.9
7.5°	4175.7	4184.6	4181.0	4184.6	4186.4	4188.1	4179.3	4172.2	4170.4	4175.7	4172.2
10°	4262.6	4269.7	4271.4	4273.2	4276.7	4275.0	4264.3	4251.9	4250.2	4248.4	4246.6
12.5°	4360.0	4365.4	4367.1	4374.2	4379.5	4381.3	4368.9	4358.3	4340.6	4344.1	4337.0
15°	4469.9	4480.6	4478.8	4489.4	4503.6	4507.2	4494.8	4477.0	4461.1	4452.2	4446.9
17.5°	4604.6	4611.7	4608.2	4618.8	4636.5	4645.4	4634.8	4611.7	4595.8	4576.3	4565.6
20°	4764.2	4776.6	4780.1	4780.1	4796.1	4804.9	4789.0	4781.9	4757.1	4742.9	4734.0
22.5°	4944.9	4950.3	4960.9	4971.5	4987.5	4983.9	4978.6	4968.0	4944.9	4932.5	4918.3
25°	5148.8	5154.1	5180.7	5203.7	5209.0	5205.5	5198.4	5193.1	5171.8	5143.4	5132.8
27.5°	5386.3	5396.9	5432.3	5453.6	5453.6	5455.4	5441.2	5458.9	5412.8	5379.2	5375.6
30°	5684.0	5691.1	5721.2	5742.5	5731.9	5723.0	5719.5	5737.2	5687.6	5627.3	5613.1
32.5°	5978.2	6003.0	6029.6	6075.7	6038.5	6022.5	6019.0	6031.4	5974.7	5907.3	5887.8
35°	6293.7	6311.4	6361.1	6400.1	6366.4	6329.2	6345.1	6384.1	6316.8	6226.4	6222.8
37.5°	6642.9	6658.8	6722.6	6763.4	6738.6	6674.8	6701.4	6747.4	6680.1	6568.4	6545.4
40°	7006.2	7039.9	7119.6	7162.2	7121.4	7036.3	7086.0	7135.6	7075.3	6945.9	6894.5
42.5°	7413.9	7467.0	7582.2	7603.5	7525.5	7410.3	7497.2	7576.9	7534.4	7385.5	7366.0
45°	7890.6	7922.5	8064.3	8110.4	8002.3	7858.7	7966.8	8112.2	8080.3	7908.3	7871.1
47.5°	8424.1	8454.2	8601.3	8670.5	8534.0	8340.8	8535.8	8725.4	8705.9	8521.6	8503.9
50°	9055.1	9062.2	9266.0	9344.0	9207.5	9040.9	9214.6	9450.3	9372.3	9136.6	9133.1
52.5°	9746.3	9755.2	10012.2	10162.8	10086.6	9898.7	10104.3	10247.9	10049.4	9741.0	9717.9
55°	10345.4	10389.7	10740.6	11141.2	11245.7	11109.3	11171.3	11103.9	10614.8	10182.3	10115.0
57.5°	10590.0	10676.8	11210.3	11958.2	12638.8	12840.9	12362.3	11720.7	10839.9	10228.4	10162.8
60°	9992.7	10086.6	10914.3	12334.0	14070.9	14948.2	13603.0	11825.3	10327.6	9468.0	9365.2
62.5°	8002.3	8028.9	9246.5	11449.6	14905.7	17177.9	14125.9	10933.8	8837.1	7669.1	7628.3
64°	5758.5	6031.4	7321.7	10038.7	14540.6	18026.9	13824.5	9684.3	7178.1	5996.0	5804.5
65°	4306.9	4381.3	5902.0	8573.0	13897.2	17963.0	13239.7	8489.7	5944.6	4588.7	4376.0
67.5°	1627.0	1635.9	2178.3	4273.2	9893.4	15455.1	10104.3	4618.8	2504.4	1811.4	1745.8
70°	675.3	687.7	799.3	1437.4	4251.9	9923.5	4872.3	1666.0	916.3	742.6	732.0
72.5°	494.5	501.6	535.3	638.1	1308.0	4074.7	1602.2	707.2	537.0	480.3	475.0
75°	388.2	391.7	416.5	469.7	609.7	1129.0	666.4	485.6	409.4	368.7	365.1
77.5°	296.0	304.8	322.6	358.0	409.4	535.3	441.3	363.3	315.5	281.8	276.5
80°	203.8	214.5	248.1	262.3	274.7	347.4	301.3	274.7	246.4	205.6	193.2
82.5°	125.8	132.9	166.6	179.0	173.7	195.0	193.2	196.7	175.5	127.6	118.7
85°	65.6	69.1	90.4	93.9	86.8	79.8	99.3	115.2	108.1	72.7	70.9
87.5°	14.2	16.0	19.5	17.7	19.5	19.5	24.8	37.2	39.0	24.8	23.0
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)