

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: P454400

Luminaire Tested: **GALN-SA5C-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454400  
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-SA5C-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33082 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

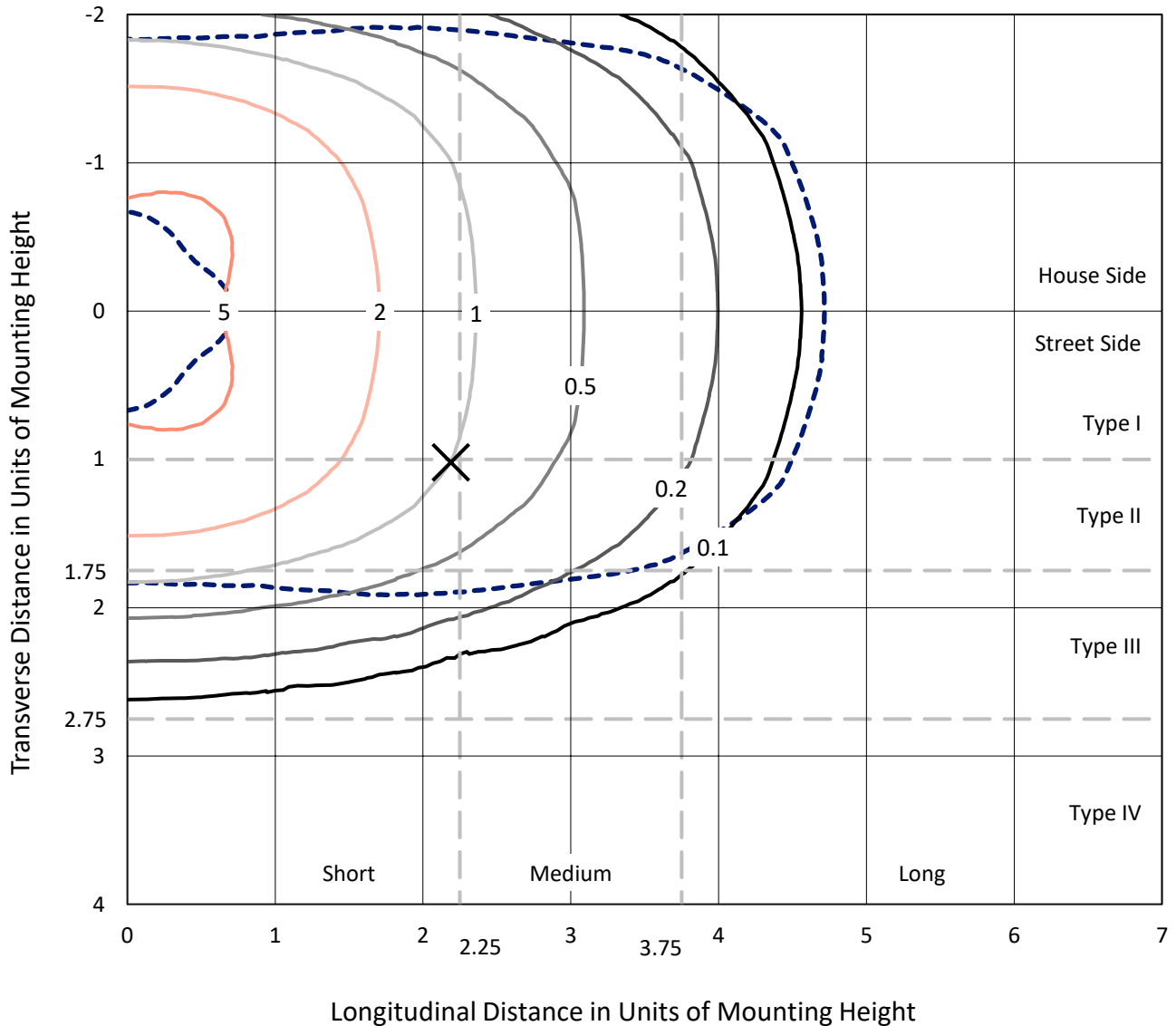
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

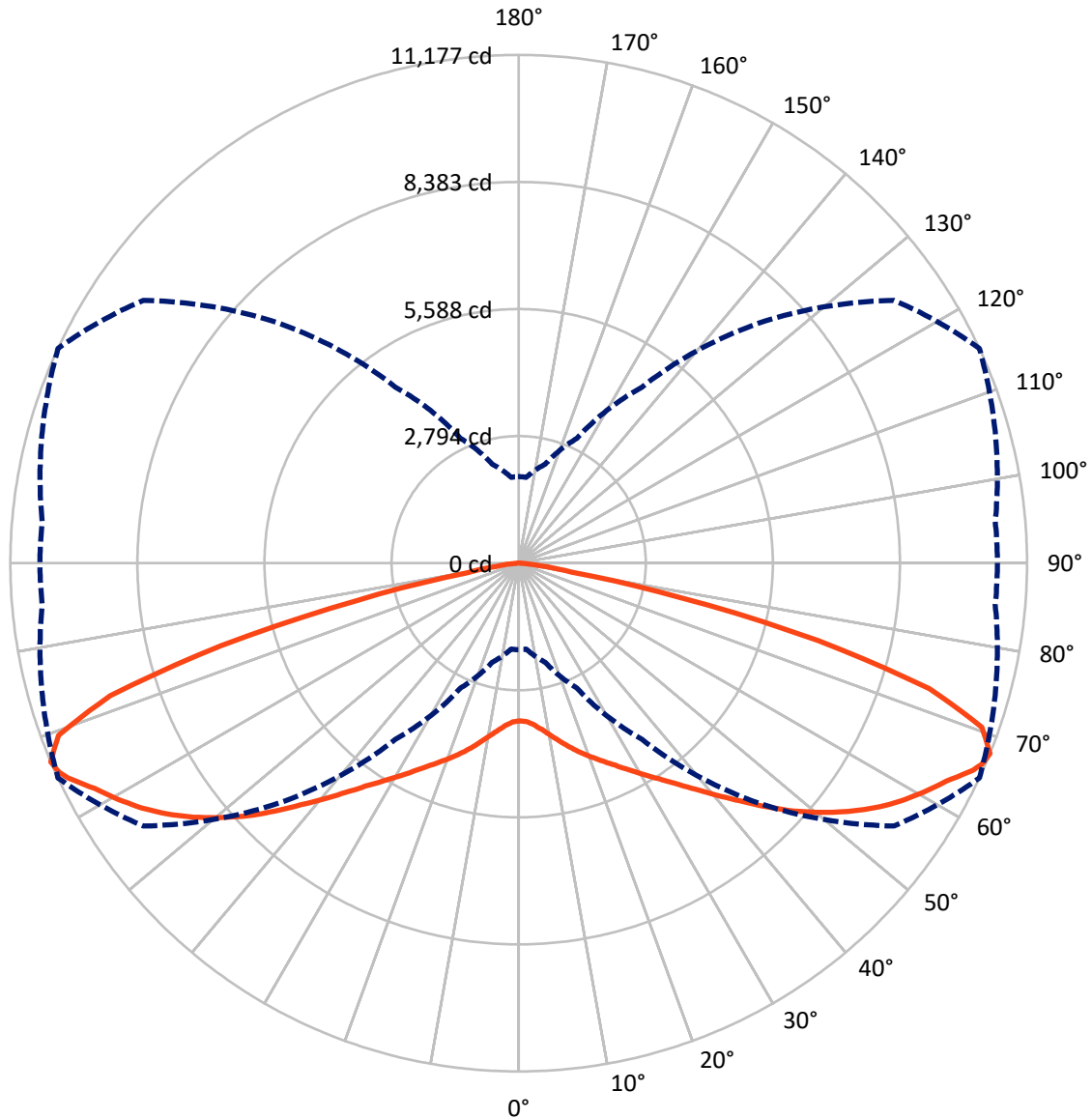
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	16541.0	0.0	16541.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16541.0	0.0	16541.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33082.0	0.0	33082.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.8	1.0
10°-20°	1143.8	3.5
20°-30°	2237.3	6.8
30°-40°	3805.4	11.5
40°-50°	6022.9	18.2
50°-60°	7986.2	24.1
60°-70°	7533.4	22.8
70°-80°	3724.2	11.3
80°-90°	287.0	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°	33082.0	100.0
0°-180°	33082.0	100.0

**Coefficient of Utilization**



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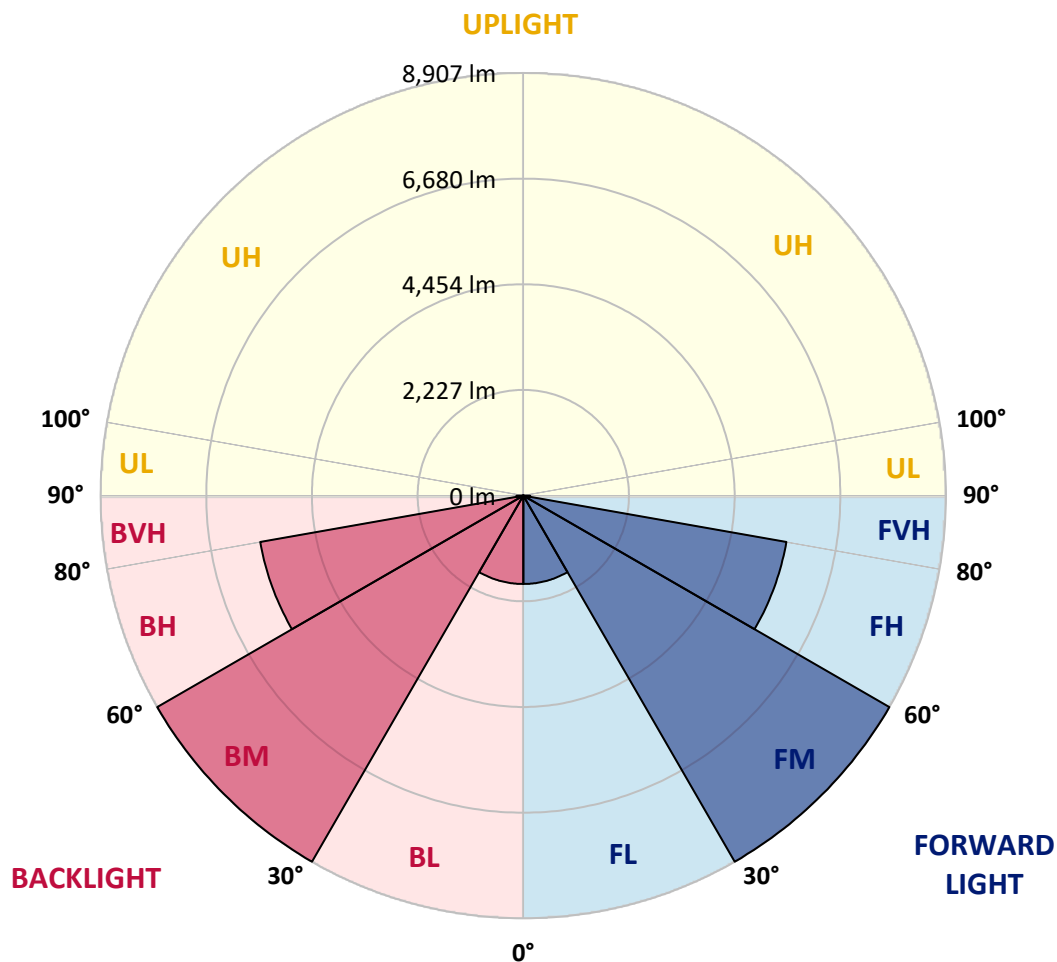
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1861.4	5.6			
FM	(30°-60°)	8907.2	26.9			
FH	(60°-80°)	5628.8	17.0			G3/7500
FVH	(80°-90°)	143.5	0.4			G2/225
BL	(0°-30°)	1861.4	5.6	B3/2500		
BM	(30°-60°)	8907.2	26.9	B5		
BH	(60°-80°)	5628.8	17.0	B5		G5
BVH	(80°-90°)	143.5	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°	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0
2.5°	3447.3	3450.9	3454.4	3459.7	3466.8	3477.5	3484.5	3489.9	3504.0	3505.8	3504.0
5°	3434.9	3438.5	3447.3	3463.3	3486.3	3518.2	3543.0	3573.2	3596.2	3612.2	3608.6
7.5°	3433.1	3440.2	3454.4	3488.1	3532.4	3587.3	3644.1	3695.5	3739.8	3775.2	3769.9
10°	3461.5	3470.4	3493.4	3543.0	3612.2	3691.9	3771.7	3847.9	3911.7	3957.8	3973.7
12.5°	3509.4	3516.4	3559.0	3633.4	3732.7	3831.9	3922.3	4016.3	4104.9	4182.9	4182.9
15°	3592.7	3605.1	3658.2	3766.4	3888.7	4003.9	4096.0	4195.3	4291.0	4379.6	4406.2
17.5°	3707.9	3725.6	3805.3	3943.6	4099.6	4205.9	4292.8	4374.3	4457.6	4542.7	4555.1
20°	3865.6	3883.3	3989.7	4156.3	4340.6	4468.2	4526.7	4546.2	4587.0	4668.5	4679.1
22.5°	4080.1	4097.8	4216.5	4404.4	4610.0	4748.3	4773.1	4727.0	4716.4	4780.2	4787.3
25°	4322.9	4338.8	4475.3	4677.4	4890.1	5040.7	5033.6	4920.2	4856.4	4895.4	4906.0
27.5°	4595.8	4618.9	4757.1	4966.3	5196.7	5329.6	5308.3	5143.5	5007.0	4999.9	5003.5
30°	4945.0	4969.8	5101.0	5301.3	5528.1	5650.4	5606.1	5384.6	5173.6	5102.7	5102.7
32.5°	5313.7	5375.7	5508.6	5717.8	5895.0	5983.6	5916.3	5650.4	5370.4	5271.1	5265.8
35°	5794.0	5827.7	5958.8	6162.6	6295.6	6364.7	6235.3	5950.0	5627.4	5510.4	5494.4
37.5°	6263.7	6292.0	6444.5	6639.4	6800.7	6797.2	6621.7	6306.2	5946.4	5815.3	5804.6
40°	6744.0	6774.1	6947.8	7126.8	7288.1	7273.9	7061.3	6708.5	6325.7	6178.6	6207.0
42.5°	7160.5	7194.2	7390.9	7646.1	7791.5	7787.9	7541.6	7144.6	6745.8	6614.6	6639.4
45°	7539.8	7569.9	7798.6	8091.0	8303.7	8330.3	8060.9	7640.8	7231.4	7063.0	7070.1
47.5°	7807.4	7864.2	8103.4	8438.4	8727.3	8821.2	8557.2	8146.0	7674.5	7499.0	7509.7
50°	8011.3	8046.7	8307.3	8688.3	9053.4	9248.4	9035.7	8613.9	8117.6	7931.5	7956.3
52.5°	8036.1	8078.6	8362.2	8801.8	9269.7	9565.7	9461.1	9071.2	8569.6	8378.1	8431.3
55°	7834.0	7858.8	8197.4	8730.9	9354.7	9801.4	9828.0	9496.5	9000.3	8854.9	8890.4
57.5°	7258.0	7321.8	7750.7	8399.4	9237.8	9927.2	10102.7	9882.9	9436.3	9292.7	9349.4
60°	6313.3	6377.1	6807.8	7630.2	8796.4	9868.7	10329.6	10225.0	9831.5	9716.3	9746.4
62.5°	4946.8	4941.5	5475.0	6483.4	7919.1	9581.6	10497.9	10554.7	10221.4	10076.1	10122.2
65°	3206.3	3222.2	3738.0	4824.5	6595.1	8851.4	10535.2	10974.7	10604.3	10384.5	10418.2
66°	2578.8	2626.7	3064.5	4065.9	5919.8	8372.8	10423.5	11098.8	10721.3	10455.4	10471.4
67.5°	1903.6	1894.7	2254.5	3027.3	4727.0	7463.6	10074.3	11176.8	10854.2	10519.2	10526.3
70°	1086.5	1084.7	1212.3	1662.5	2779.1	5255.2	8491.6	10802.8	11123.6	10749.6	10730.1
72.5°	794.0	788.7	806.4	918.1	1355.9	2653.3	5857.8	9441.6	10985.4	10712.4	10657.5
75°	666.4	662.9	659.3	673.5	760.4	1201.7	3108.8	6791.8	9532.0	10054.8	9998.1
77.5°	544.1	544.1	545.9	542.4	545.9	632.7	1288.5	3640.5	5804.6	6479.9	6637.6
80°	425.4	423.6	453.7	441.3	413.0	405.9	570.7	1171.6	1926.6	1916.0	1581.0
82.5°	313.7	292.4	345.6	336.8	304.9	258.8	333.2	499.8	643.4	418.3	310.2
85°	198.5	196.7	244.6	223.3	186.1	122.3	159.5	214.5	265.9	161.3	131.2
87.5°	35.4	33.7	78.0	56.7	56.7	35.4	44.3	58.5	86.8	60.3	44.3
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)