

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: P459156

Luminaire Tested: **GALN-SA6C-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459156  
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-SA6C-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40069 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

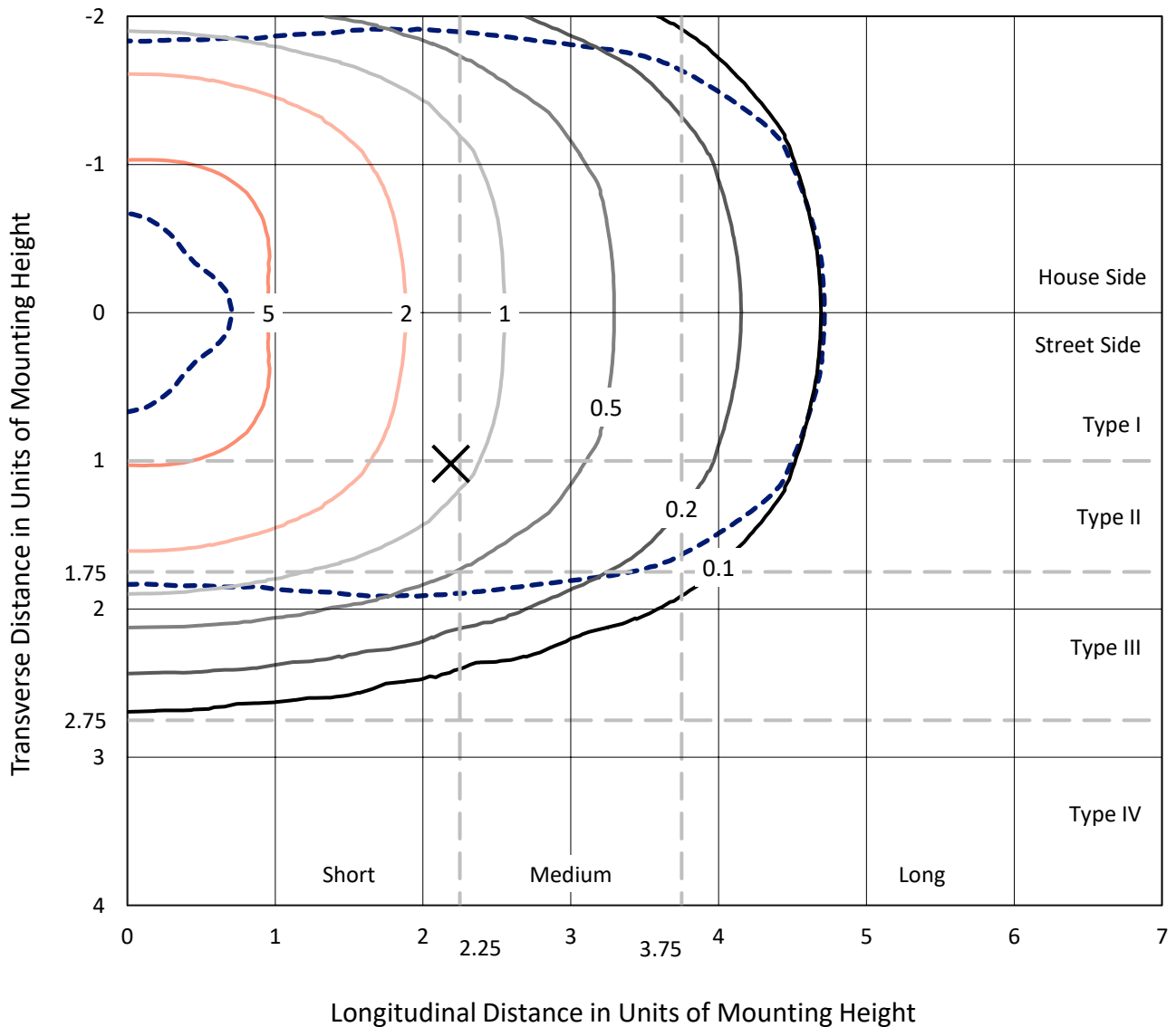
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

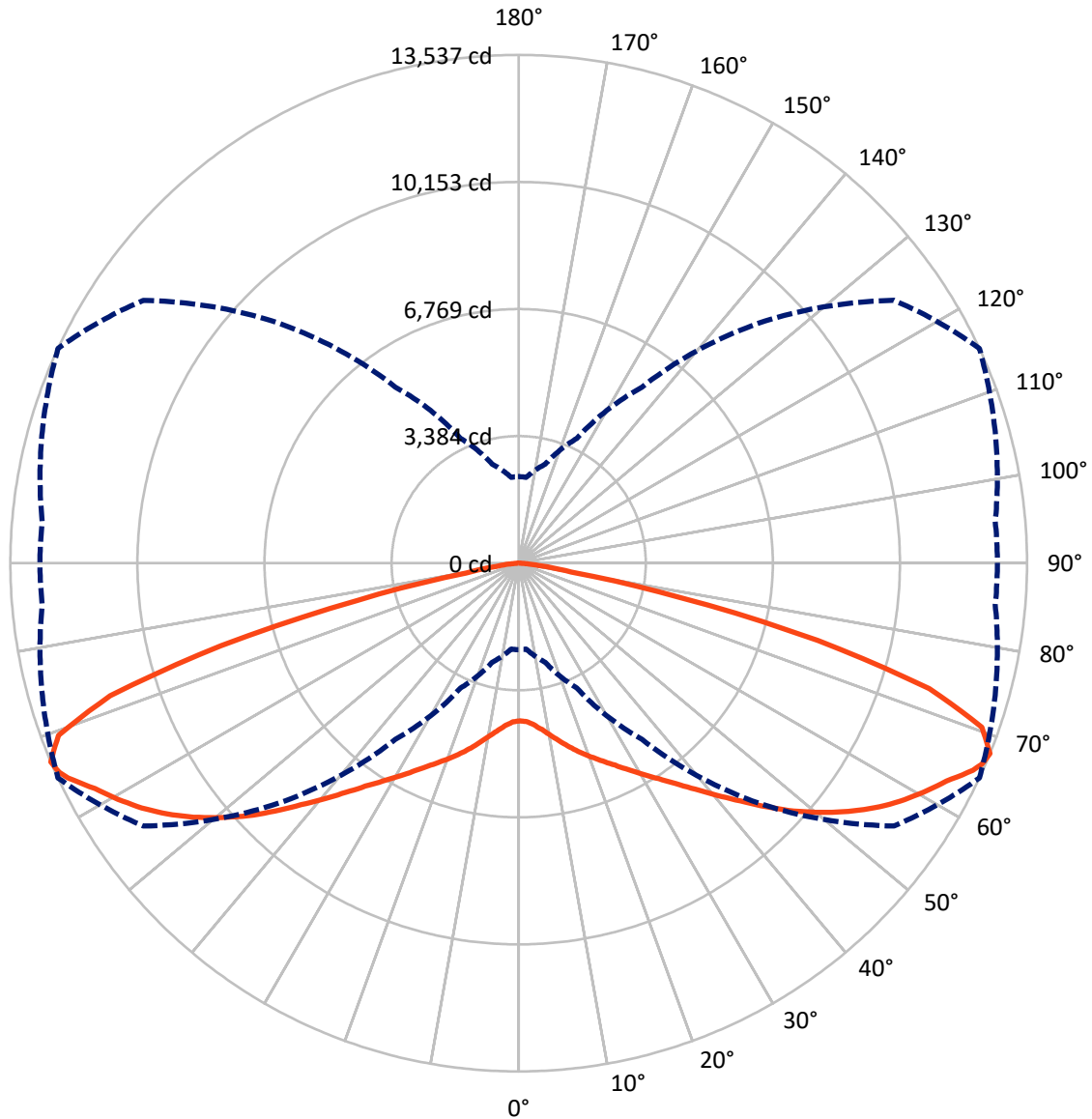
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	20034.5	0.0	20034.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20034.5	0.0	20034.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40069.0	0.0	40069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.9	1.0
10°-20°	1385.4	3.5
20°-30°	2709.9	6.8
30°-40°	4609.1	11.5
40°-50°	7294.9	18.2
50°-60°	9672.9	24.1
60°-70°	9124.5	22.8
70°-80°	4510.7	11.3
80°-90°	347.6	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°	40069.0	100.0
0°-180°	40069.0	100.0

**Coefficient of Utilization**



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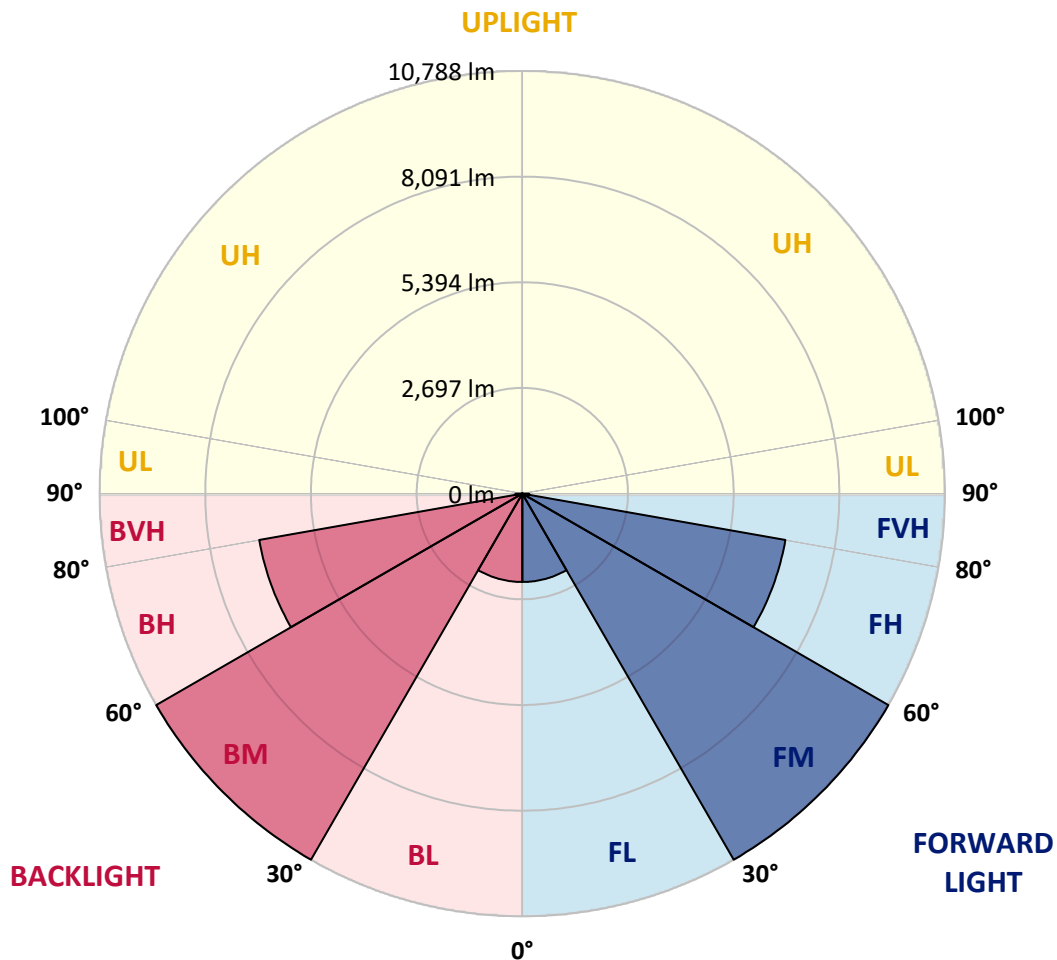
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2254.6	5.6			
FM	(30°-60°)	10788.5	26.9			
FH	(60°-80°)	6817.6	17.0			G3/7500
FVH	(80°-90°)	173.8	0.4			G2/225
BL	(0°-30°)	2254.6	5.6	B3/2500		
BM	(30°-60°)	10788.5	26.9	B5		
BH	(60°-80°)	6817.6	17.0	B5		G5
BVH	(80°-90°)	173.8	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°	4196.9	4196.9	4196.9	4196.9	4196.9	4196.9	4196.9	4196.9	4196.9	4196.9	4196.9
2.5°	4175.4	4179.7	4184.0	4190.4	4199.0	4211.9	4220.5	4226.9	4244.1	4246.2	4244.1
5°	4160.4	4164.7	4175.4	4194.7	4222.6	4261.3	4291.3	4327.8	4355.7	4375.1	4370.8
7.5°	4158.2	4166.8	4184.0	4224.8	4278.5	4345.0	4413.7	4476.0	4529.6	4572.6	4566.1
10°	4192.6	4203.3	4231.2	4291.3	4375.1	4471.7	4568.3	4660.6	4737.9	4793.7	4813.0
12.5°	4250.5	4259.1	4310.7	4400.8	4521.0	4641.2	4750.7	4864.5	4971.8	5066.3	5066.3
15°	4351.4	4366.5	4430.9	4561.8	4709.9	4849.5	4961.1	5081.3	5197.3	5304.6	5336.8
17.5°	4491.0	4512.4	4609.0	4776.5	4965.4	5094.2	5199.4	5298.2	5399.0	5502.1	5517.1
20°	4682.0	4703.5	4832.3	5034.1	5257.4	5411.9	5482.8	5506.4	5555.8	5654.5	5667.4
22.5°	4941.8	4963.3	5107.1	5334.6	5583.7	5751.1	5781.2	5725.4	5712.5	5789.8	5798.3
25°	5235.9	5255.2	5420.5	5665.2	5922.9	6105.3	6096.7	5959.3	5882.1	5929.3	5942.2
27.5°	5566.5	5594.4	5761.8	6015.2	6294.2	6455.2	6429.5	6229.8	6064.5	6056.0	6060.2
30°	5989.4	6019.5	6178.3	6420.9	6695.7	6843.8	6790.1	6521.8	6266.3	6180.5	6180.5
32.5°	6435.9	6511.1	6672.1	6925.4	7140.1	7247.4	7165.8	6843.8	6504.6	6384.4	6378.0
35°	7017.7	7058.5	7217.3	7464.2	7625.2	7708.9	7552.2	7206.6	6815.9	6674.2	6654.9
37.5°	7586.6	7620.9	7805.5	8041.7	8237.0	8232.7	8020.2	7638.1	7202.3	7043.4	7030.6
40°	8168.3	8204.8	8415.2	8632.0	8827.4	8810.2	8552.6	8125.4	7661.7	7483.5	7517.9
42.5°	8672.8	8713.6	8951.9	9261.0	9437.1	9432.8	9134.4	8653.5	8170.5	8011.6	8041.7
45°	9132.2	9168.7	9445.7	9799.9	10057.5	10089.7	9763.4	9254.6	8758.7	8554.8	8563.3
47.5°	9456.4	9525.1	9814.9	10220.6	10570.5	10684.3	10364.5	9866.4	9295.4	9082.9	9095.7
50°	9703.3	9746.2	10061.8	10523.3	10965.5	11201.7	10944.1	10433.2	9832.1	9606.7	9636.7
52.5°	9733.3	9784.8	10128.3	10660.7	11227.4	11585.9	11459.3	10987.0	10379.5	10147.6	10212.0
55°	9488.6	9518.6	9928.7	10574.8	11330.5	11871.5	11903.7	11502.2	10901.1	10725.1	10768.0
57.5°	8790.9	8868.2	9387.7	10173.4	11188.8	12023.9	12236.4	11970.2	11429.2	11255.4	11324.0
60°	7646.7	7724.0	8245.6	9241.7	10654.3	11953.0	12511.2	12384.5	11908.0	11768.4	11804.9
62.5°	5991.5	5985.1	6631.3	7852.8	9591.6	11605.3	12715.1	12783.8	12380.2	12204.2	12260.0
65°	3883.5	3902.8	4527.5	5843.4	7988.0	10720.8	12760.2	13292.6	12843.9	12577.7	12618.5
66°	3123.5	3181.5	3711.7	4924.6	7170.1	10141.2	12625.0	13442.9	12985.6	12663.6	12682.9
67.5°	2305.6	2294.9	2730.7	3666.6	5725.4	9039.9	12202.1	13537.3	13146.6	12740.9	12749.5
70°	1316.0	1313.8	1468.4	2013.6	3366.1	6365.1	10285.0	13084.4	13472.9	13020.0	12996.4
72.5°	961.7	955.3	976.8	1112.0	1642.3	3213.7	7095.0	11435.7	13305.5	12974.9	12908.3
75°	807.2	802.9	798.6	815.8	921.0	1455.5	3765.4	8226.3	11545.2	12178.4	12109.8
77.5°	659.0	659.0	661.2	656.9	661.2	766.4	1560.7	4409.4	7030.6	7848.5	8039.5
80°	515.2	513.1	549.6	534.5	500.2	491.6	691.2	1419.0	2333.5	2320.6	1914.9
82.5°	380.0	354.2	418.6	407.9	369.2	313.4	403.6	605.4	779.3	506.6	375.7
85°	240.4	238.3	296.2	270.5	225.4	148.1	193.2	259.8	322.0	195.4	158.9
87.5°	42.9	40.8	94.5	68.7	68.7	42.9	53.7	70.8	105.2	73.0	53.7
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)