

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: P459123

Luminaire Tested: **GALN-SA6B-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459123  
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-SA6B-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32804 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

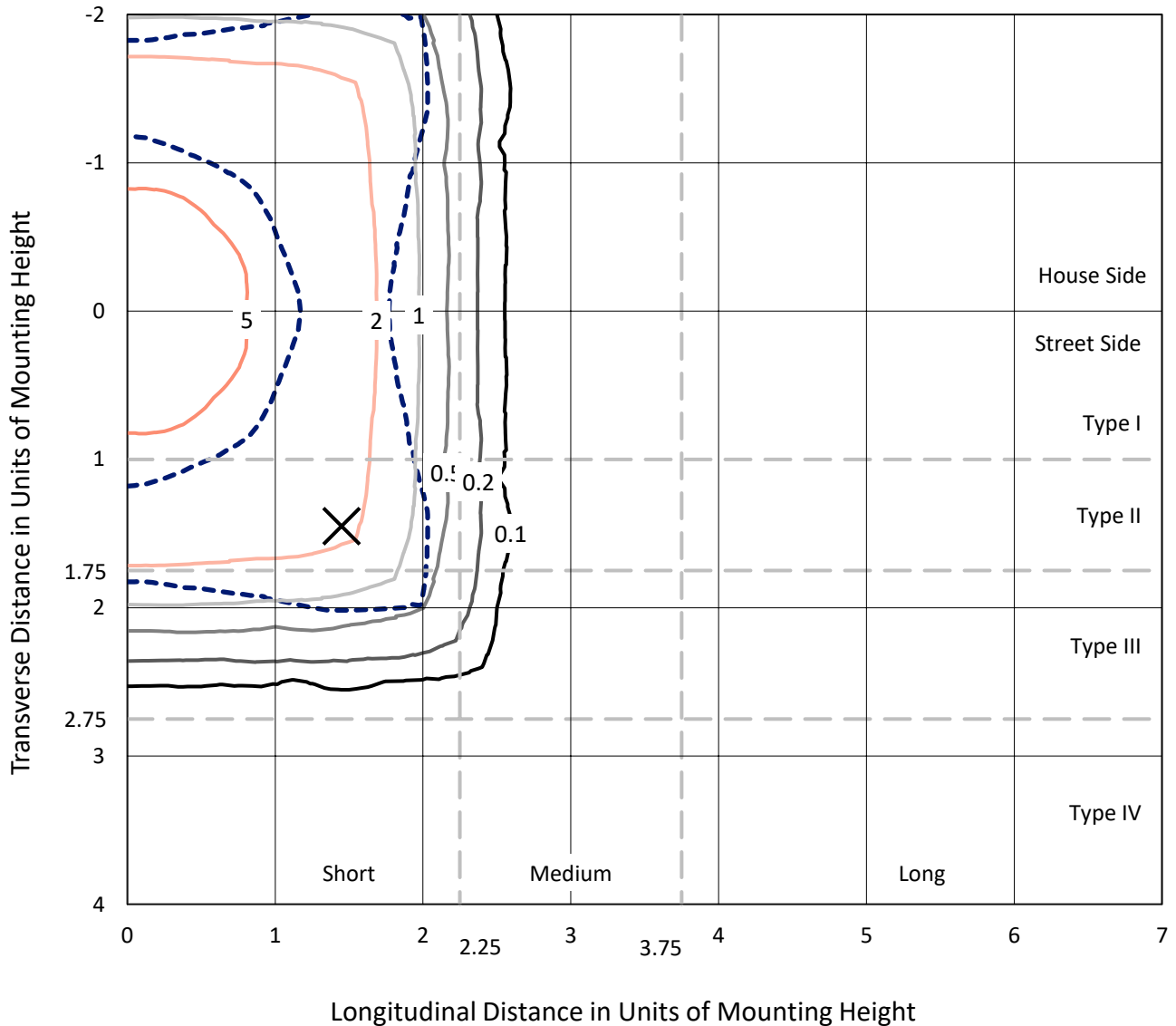
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

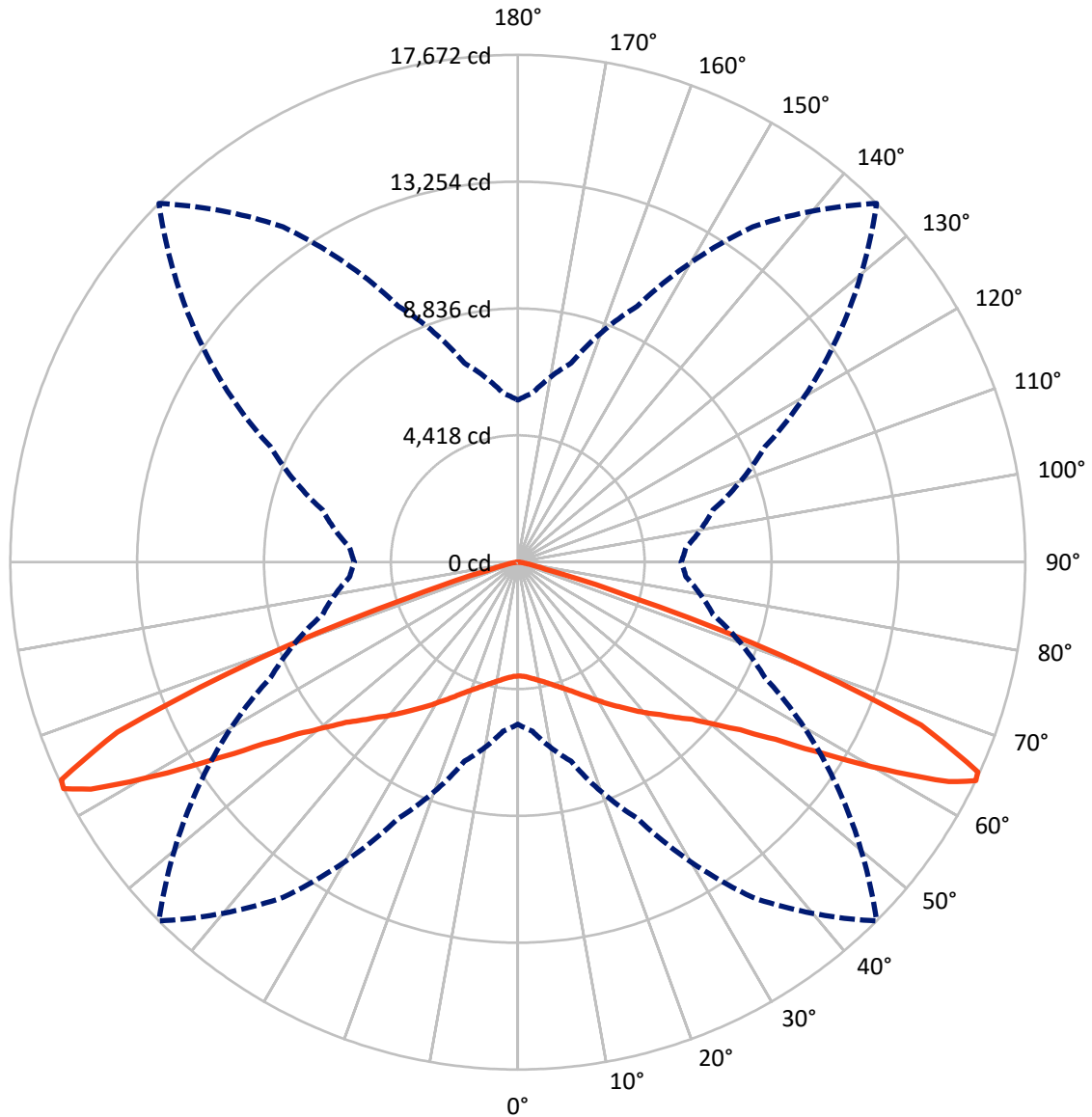
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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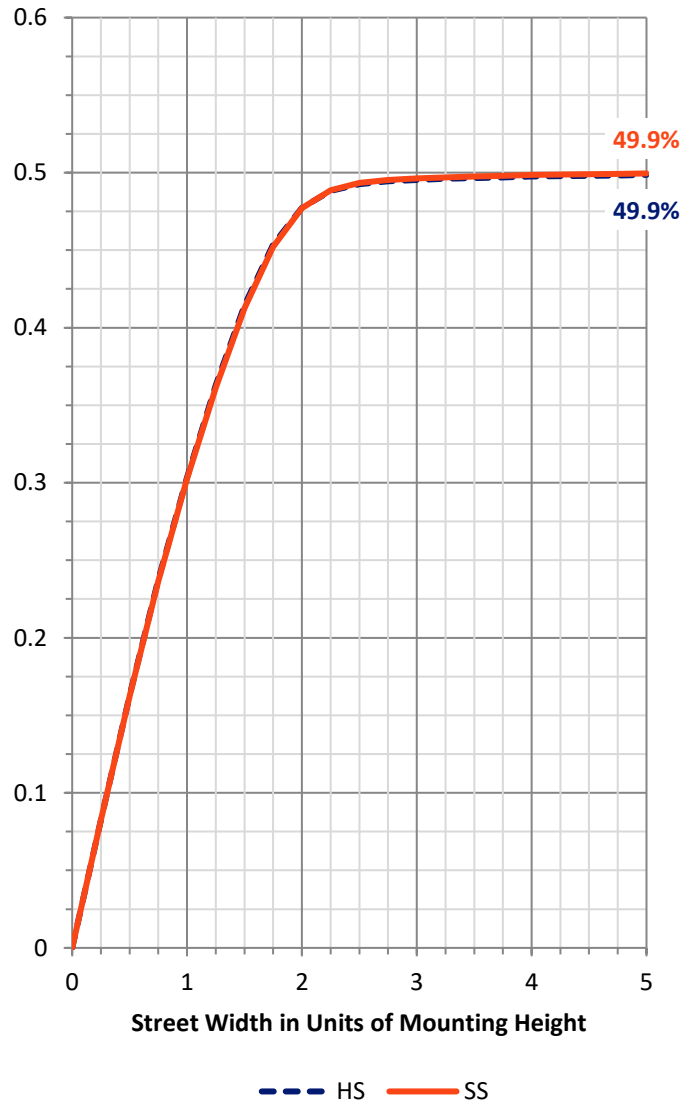
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16402.0	0.0	16402.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16402.0	0.0	16402.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32804.0	0.0	32804.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.5	1.2
10°-20°	1256.5	3.8
20°-30°	2374.4	7.2
30°-40°	3932.2	12.0
40°-50°	6138.8	18.7
50°-60°	9490.5	28.9
60°-70°	8183.6	24.9
70°-80°	927.4	2.8
80°-90°	111.1	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°	32804.0	100.0
0°-180°	32804.0	100.0



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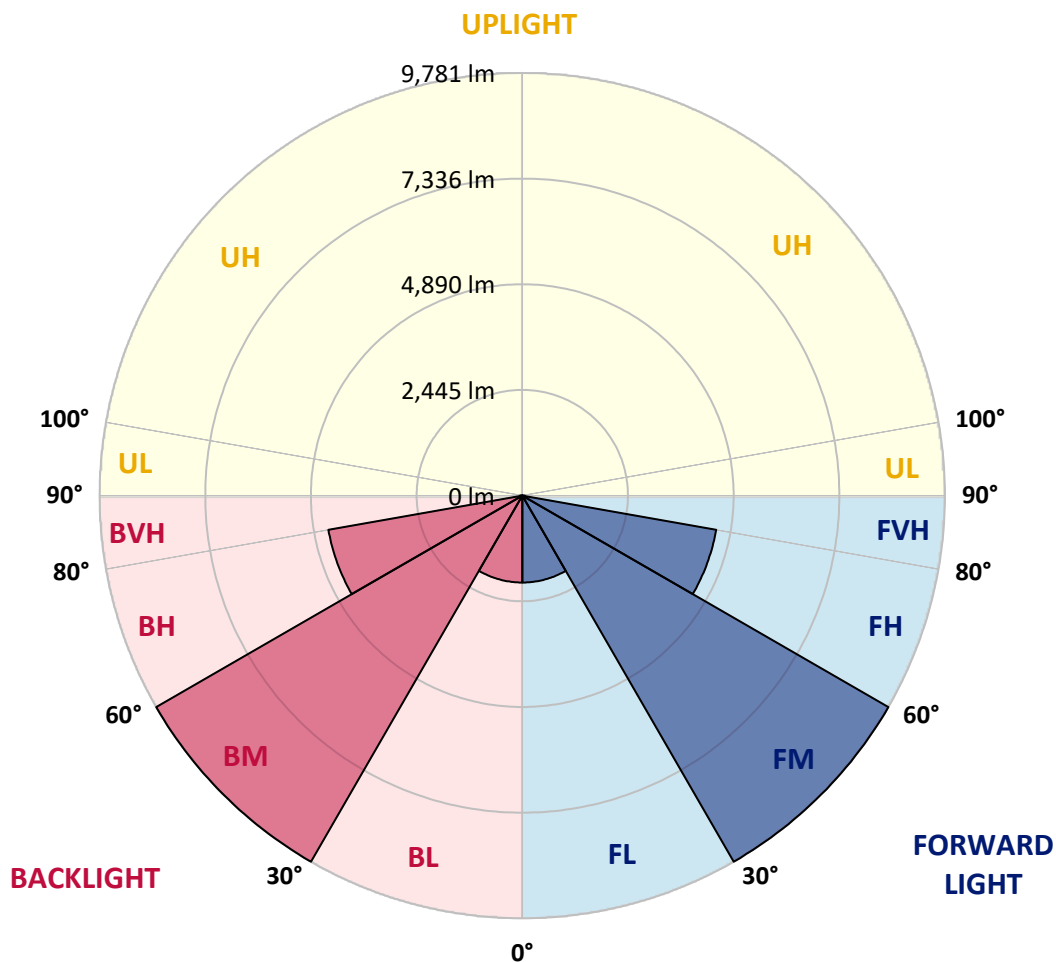
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2010.2	6.1			
FM	(30°-60°)	9780.8	29.8			
FH	(60°-80°)	4555.5	13.9			G2/5000
FVH	(80°-90°)	55.6	0.2			G1/100
BL	(0°-30°)	2010.2	6.1	B3/2500		
BM	(30°-60°)	9780.8	29.8	B5		
BH	(60°-80°)	4555.5	13.9	B4/5000		G2/5000
BVH	(80°-90°)	55.6	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°	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9
2.5°	3980.6	3989.2	3982.3	3980.6	3978.8	3978.8	3978.8	3980.6	3987.5	3992.7	3989.2
5°	4030.9	4037.9	4034.4	4032.7	4030.9	4032.7	4029.2	4027.5	4032.7	4032.7	4030.9
7.5°	4093.5	4102.2	4098.7	4102.2	4103.9	4105.7	4097.0	4090.0	4088.3	4093.5	4090.0
10°	4178.6	4185.6	4187.3	4189.0	4192.5	4190.8	4180.4	4168.2	4166.5	4164.7	4163.0
12.5°	4274.2	4279.4	4281.1	4288.1	4293.3	4295.0	4282.9	4272.4	4255.1	4258.5	4251.6
15°	4381.9	4392.3	4390.6	4401.0	4414.9	4418.4	4406.2	4388.9	4373.2	4364.5	4359.3
17.5°	4514.0	4520.9	4517.4	4527.9	4545.2	4553.9	4543.5	4520.9	4505.3	4486.2	4475.7
20°	4670.3	4682.5	4686.0	4686.0	4701.6	4710.3	4694.7	4687.7	4663.4	4649.5	4640.8
22.5°	4847.6	4852.8	4863.2	4873.6	4889.3	4885.8	4880.6	4870.1	4847.6	4835.4	4821.5
25°	5047.4	5052.6	5078.6	5101.2	5106.4	5103.0	5096.0	5090.8	5069.9	5042.1	5031.7
27.5°	5280.2	5290.6	5325.4	5346.2	5346.2	5347.9	5334.0	5351.4	5306.2	5273.2	5269.8
30°	5572.1	5579.0	5608.6	5629.4	5619.0	5610.3	5606.8	5624.2	5575.6	5516.5	5502.6
32.5°	5860.5	5884.8	5910.9	5956.1	5919.6	5903.9	5900.5	5912.6	5857.0	5791.0	5771.9
35°	6169.8	6187.1	6235.8	6274.0	6241.0	6204.5	6220.2	6258.4	6192.4	6103.7	6100.3
37.5°	6512.1	6527.7	6590.2	6630.2	6605.9	6543.3	6569.4	6614.6	6548.5	6439.1	6416.5
40°	6868.2	6901.2	6979.4	7021.1	6981.2	6897.8	6946.4	6995.1	6936.0	6809.2	6758.8
42.5°	7267.9	7320.0	7432.9	7453.8	7377.3	7264.4	7349.5	7427.7	7386.0	7240.1	7220.9
45°	7735.2	7766.5	7905.5	7950.7	7844.7	7704.0	7809.9	7952.4	7921.1	7752.6	7716.1
47.5°	8258.2	8287.7	8432.0	8499.7	8365.9	8176.6	8367.7	8553.6	8534.5	8353.8	8336.4
50°	8876.8	8883.7	9083.5	9160.0	9026.2	8862.9	9033.1	9264.2	9187.8	8956.7	8953.2
52.5°	9554.4	9563.1	9815.0	9962.7	9888.0	9703.8	9905.3	10046.1	9851.5	9549.2	9526.6
55°	10141.6	10185.1	10529.1	10921.8	11024.3	10890.5	10951.3	10885.3	10405.7	9981.8	9915.8
57.5°	10381.4	10466.5	10989.5	11722.7	12389.9	12588.0	12118.9	11489.9	10626.4	10027.0	9962.7
60°	9795.9	9888.0	10699.4	12091.1	13793.8	14653.9	13335.1	11592.4	10124.3	9281.6	9180.8
62.5°	7844.7	7870.8	9064.4	11224.1	14612.2	16839.6	13847.7	10718.5	8663.0	7518.0	7478.1
64°	5645.1	5912.6	7177.5	9841.1	14254.2	17671.8	13552.3	9493.6	7036.8	5877.9	5690.2
65°	4222.1	4295.0	5785.8	8404.2	13623.5	17609.3	12978.9	8322.5	5827.5	4498.3	4289.8
67.5°	1595.0	1603.7	2135.4	4189.0	9698.6	15150.8	9905.3	4527.9	2455.1	1775.7	1711.4
70°	662.0	674.1	783.6	1409.1	4168.2	9728.1	4776.3	1633.2	898.3	728.0	717.6
72.5°	484.8	491.7	524.7	625.5	1282.3	3994.5	1570.7	693.3	526.5	470.9	465.6
75°	380.5	384.0	408.3	460.4	597.7	1106.8	653.3	476.1	401.4	361.4	357.9
77.5°	290.2	298.8	316.2	351.0	401.4	524.7	432.6	356.2	309.3	276.3	271.0
80°	199.8	210.2	243.2	257.1	269.3	340.5	295.4	269.3	241.5	201.5	189.4
82.5°	123.4	130.3	163.3	175.5	170.3	191.1	189.4	192.9	172.0	125.1	116.4
85°	64.3	67.8	88.6	92.1	85.1	78.2	97.3	112.9	106.0	71.2	69.5
87.5°	13.9	15.6	19.1	17.4	19.1	19.1	24.3	36.5	38.2	24.3	22.6
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)