

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: P459098

Luminaire Tested: **GALN-SA6A-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459098  
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-SA6A-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26064 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

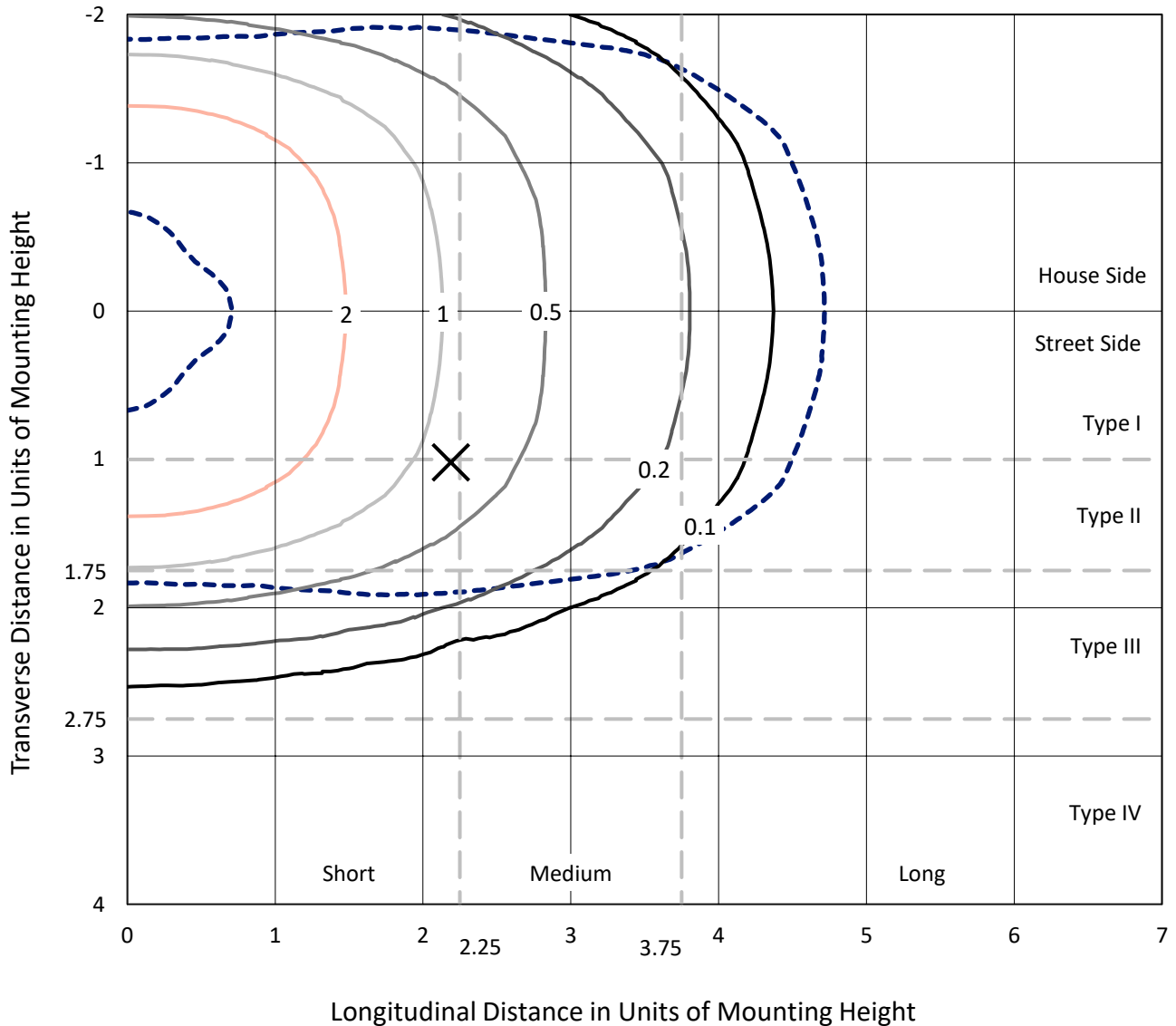
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

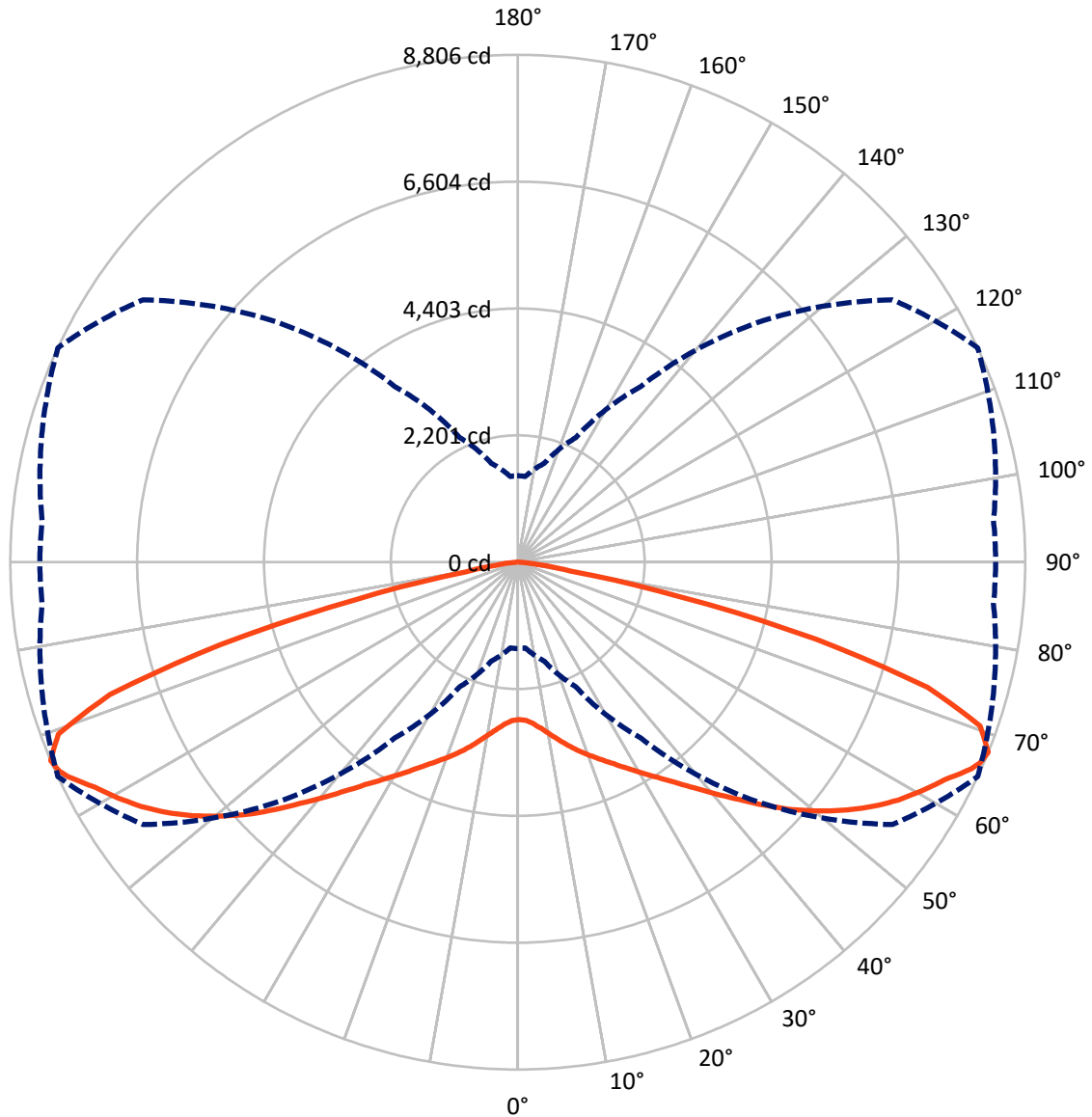
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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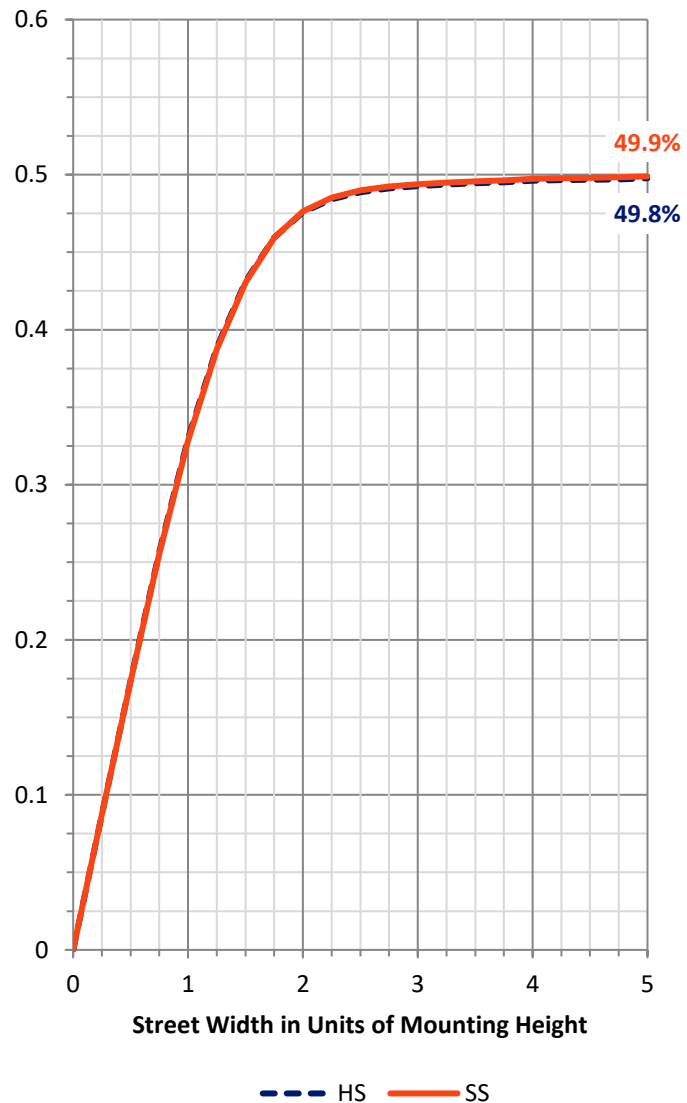
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13032.0	0.0	13032.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13032.0	0.0	13032.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26064.0	0.0	26064.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	1.0
10°-20°	901.2	3.5
20°-30°	1762.7	6.8
30°-40°	2998.1	11.5
40°-50°	4745.2	18.2
50°-60°	6292.0	24.1
60°-70°	5935.3	22.8
70°-80°	2934.1	11.3
80°-90°	226.1	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°	26064.0	100.0
0°-180°	26064.0	100.0



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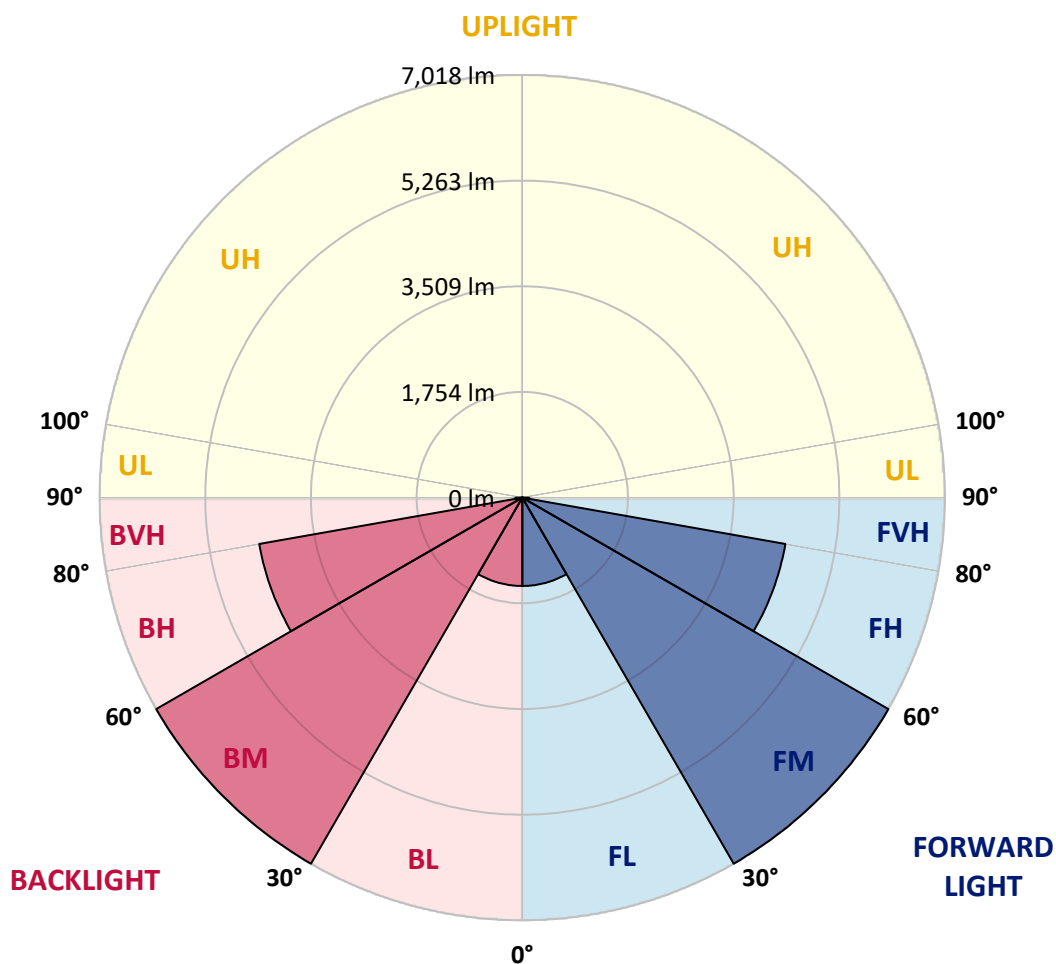
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.6	5.6			
FM	(30°-60°)	7017.7	26.9			
FH	(60°-80°)	4434.7	17.0			G2/5000
FVH	(80°-90°)	113.1	0.4			G2/225
BL	(0°-30°)	1466.6	5.6	B3/2500		
BM	(30°-60°)	7017.7	26.9	B4/8500		
BH	(60°-80°)	4434.7	17.0	B4/5000		G4/5000
BVH	(80°-90°)	113.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2730.0	2730.0	2730.0	2730.0	2730.0	2730.0	2730.0	2730.0	2730.0	2730.0	2730.0
2.5°	2716.0	2718.8	2721.6	2725.8	2731.4	2739.7	2745.3	2749.5	2760.7	2762.1	2760.7
5°	2706.2	2709.0	2716.0	2728.6	2746.7	2771.9	2791.4	2815.2	2833.3	2845.9	2843.1
7.5°	2704.8	2710.4	2721.6	2748.1	2783.0	2826.3	2871.0	2911.5	2946.4	2974.3	2970.2
10°	2727.2	2734.2	2752.3	2791.4	2845.9	2908.7	2971.6	3031.6	3081.9	3118.2	3130.7
12.5°	2764.9	2770.5	2804.0	2862.6	2940.8	3019.0	3090.2	3164.3	3234.1	3295.5	3295.5
15°	2830.5	2840.3	2882.2	2967.4	3063.7	3154.5	3227.1	3305.3	3380.7	3450.5	3471.5
17.5°	2921.3	2935.2	2998.1	3107.0	3229.9	3313.7	3382.1	3446.3	3512.0	3579.0	3588.8
20°	3045.6	3059.5	3143.3	3274.6	3419.8	3520.3	3566.4	3581.8	3613.9	3678.1	3686.5
22.5°	3214.5	3228.5	3322.1	3470.1	3632.1	3741.0	3760.5	3724.2	3715.8	3766.1	3771.7
25°	3405.8	3418.4	3525.9	3685.1	3852.7	3971.4	3965.8	3876.4	3826.2	3856.9	3865.3
27.5°	3620.9	3639.0	3748.0	3912.7	4094.3	4199.0	4182.2	4052.4	3944.8	3939.3	3942.1
30°	3896.0	3915.5	4018.9	4176.7	4355.4	4451.7	4416.8	4242.3	4076.1	4020.3	4020.3
32.5°	4186.4	4235.3	4340.0	4504.8	4644.4	4714.3	4661.2	4451.7	4231.1	4152.9	4148.7
35°	4564.9	4591.4	4694.7	4855.3	4960.0	5014.5	4912.6	4687.7	4433.6	4341.4	4328.9
37.5°	4934.9	4957.2	5077.3	5230.9	5358.0	5355.2	5217.0	4968.4	4684.9	4581.6	4573.2
40°	5313.3	5337.1	5473.9	5614.9	5742.0	5730.9	5563.3	5285.4	4983.8	4867.9	4890.2
42.5°	5641.5	5668.0	5823.0	6024.1	6138.6	6135.8	5941.7	5628.9	5314.7	5211.4	5230.9
45°	5940.3	5964.1	6144.2	6374.6	6542.2	6563.1	6350.9	6019.9	5697.3	5564.7	5570.3
47.5°	6151.2	6195.9	6384.4	6648.3	6875.9	6949.9	6741.8	6417.9	6046.4	5908.2	5916.6
50°	6311.8	6339.7	6545.0	6845.2	7132.8	7286.4	7118.9	6786.5	6395.5	6248.9	6268.5
52.5°	6331.3	6364.8	6588.2	6934.6	7303.2	7536.4	7454.0	7146.8	6751.6	6600.8	6642.7
55°	6172.1	6191.7	6458.4	6878.7	7370.2	7722.1	7743.1	7481.9	7091.0	6976.4	7004.4
57.5°	5718.3	5768.6	6106.5	6617.6	7278.1	7821.3	7959.5	7786.4	7434.5	7321.4	7366.0
60°	4974.0	5024.3	5363.6	6011.5	6930.4	7775.2	8138.3	8055.9	7745.9	7655.1	7678.8
62.5°	3897.4	3893.2	4313.5	5108.1	6239.1	7549.0	8270.9	8315.6	8053.1	7938.6	7974.9
65°	2526.1	2538.7	2945.0	3801.0	5196.0	6973.7	8300.2	8646.5	8354.7	8181.5	8208.1
66°	2031.8	2069.5	2414.4	3203.4	4664.0	6596.6	8212.3	8744.3	8446.9	8237.4	8250.0
67.5°	1499.7	1492.8	1776.2	2385.1	3724.2	5880.3	7937.2	8805.7	8551.6	8287.7	8293.3
70°	856.0	854.6	955.1	1309.8	2189.6	4140.3	6690.2	8511.1	8763.8	8469.2	8453.8
72.5°	625.6	621.4	635.4	723.3	1068.3	2090.4	4615.1	7438.7	8654.9	8439.9	8396.6
75°	525.0	522.3	519.5	530.6	599.1	946.8	2449.3	5351.0	7509.9	7921.8	7877.1
77.5°	428.7	428.7	430.1	427.3	430.1	498.5	1015.2	2868.2	4573.2	5105.3	5229.5
80°	335.1	333.7	357.5	347.7	325.4	319.8	449.6	923.0	1517.9	1509.5	1245.6
82.5°	247.2	230.4	272.3	265.3	240.2	203.9	262.5	393.8	506.9	329.6	244.4
85°	156.4	155.0	192.7	175.9	146.6	96.4	125.7	169.0	209.5	127.1	103.3
87.5°	27.9	26.5	61.4	44.7	44.7	27.9	34.9	46.1	68.4	47.5	34.9
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)