

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: P458877

Luminaire Tested: **GALN-SA4A-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16823 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

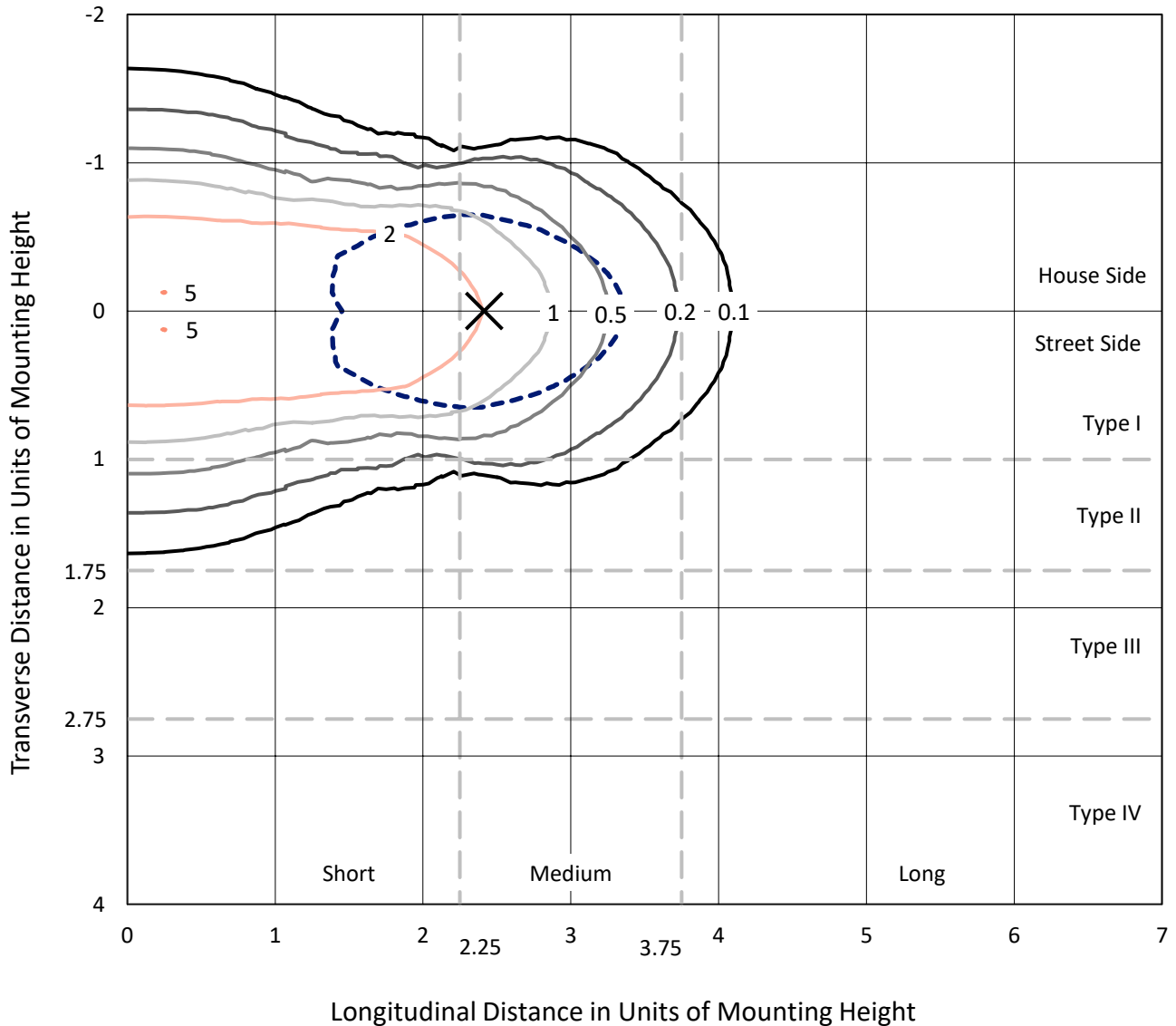
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

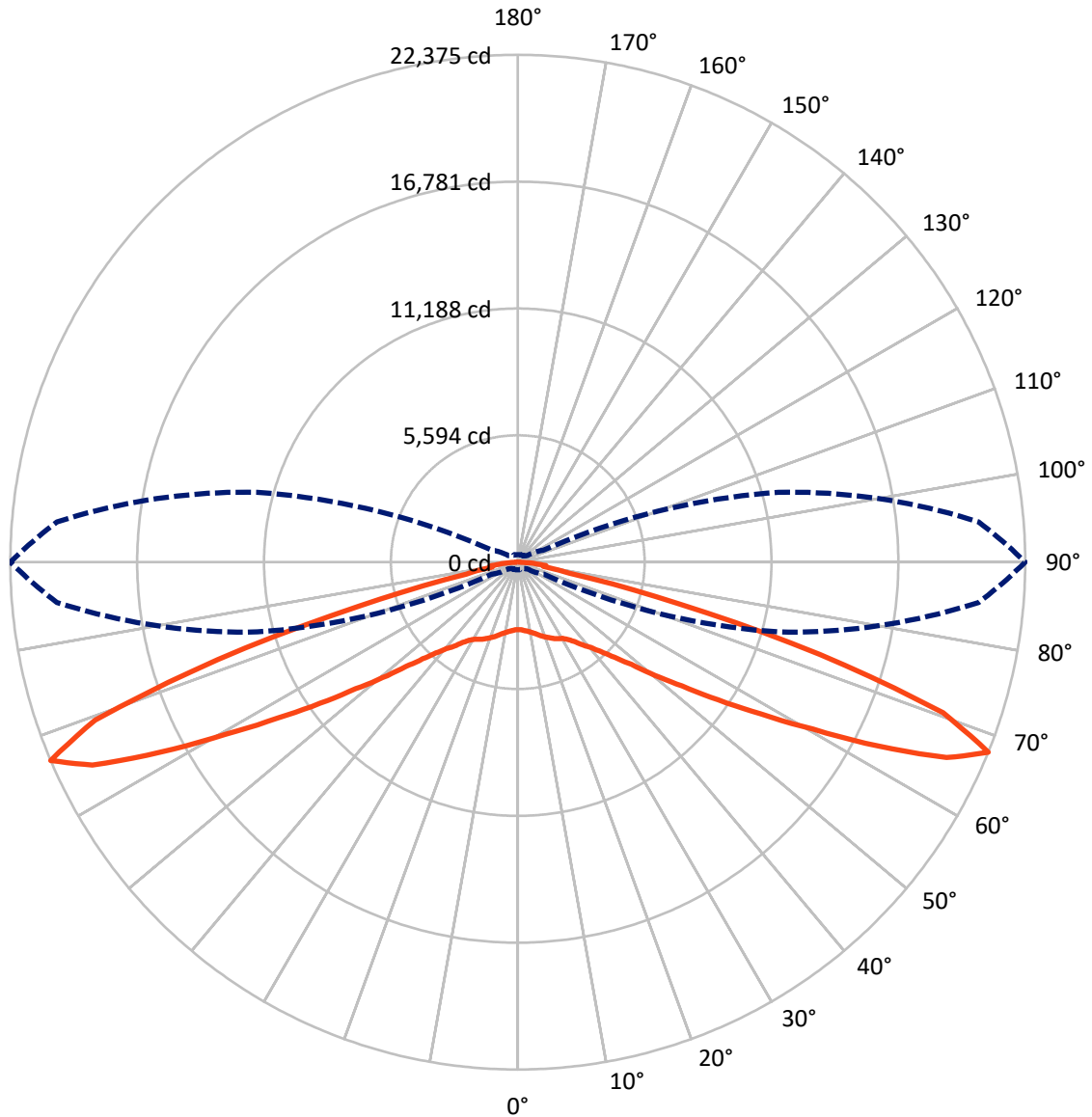
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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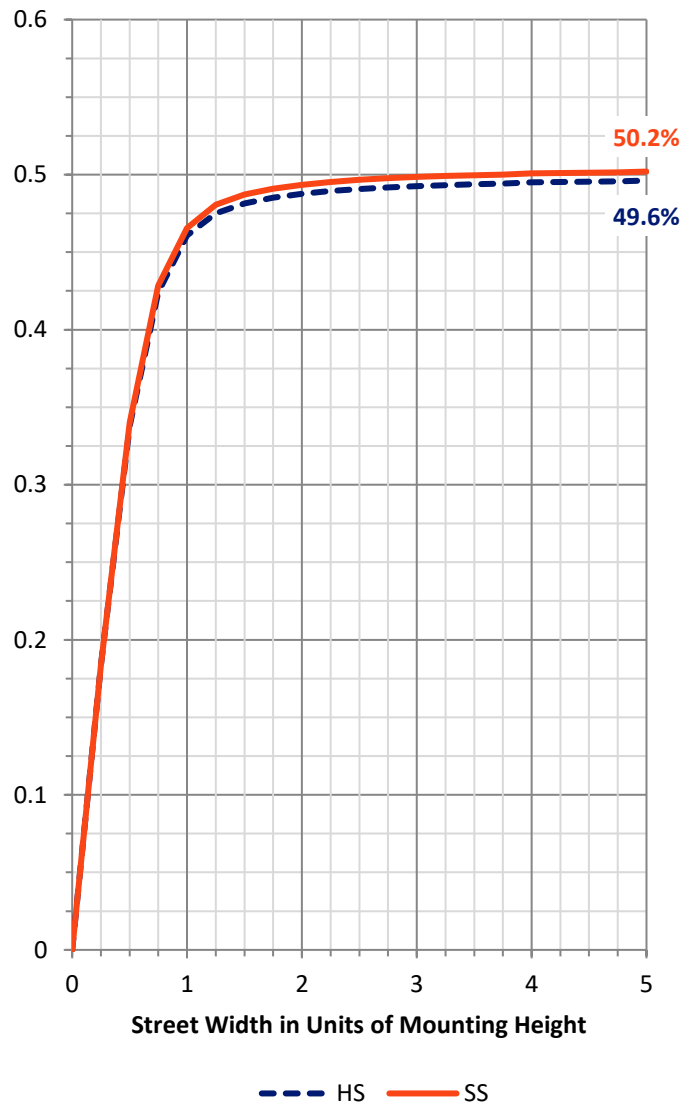
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8411.5	0.0	8411.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8411.5	0.0	8411.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16823.0	0.0	16823.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.9	1.8
10°-20°	950.0	5.6
20°-30°	1590.1	9.5
30°-40°	2154.1	12.8
40°-50°	2728.5	16.2
50°-60°	3408.6	20.3
60°-70°	4006.7	23.8
70°-80°	1532.7	9.1
80°-90°	155.3	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°	16823.0	100.0
0°-180°	16823.0	100.0



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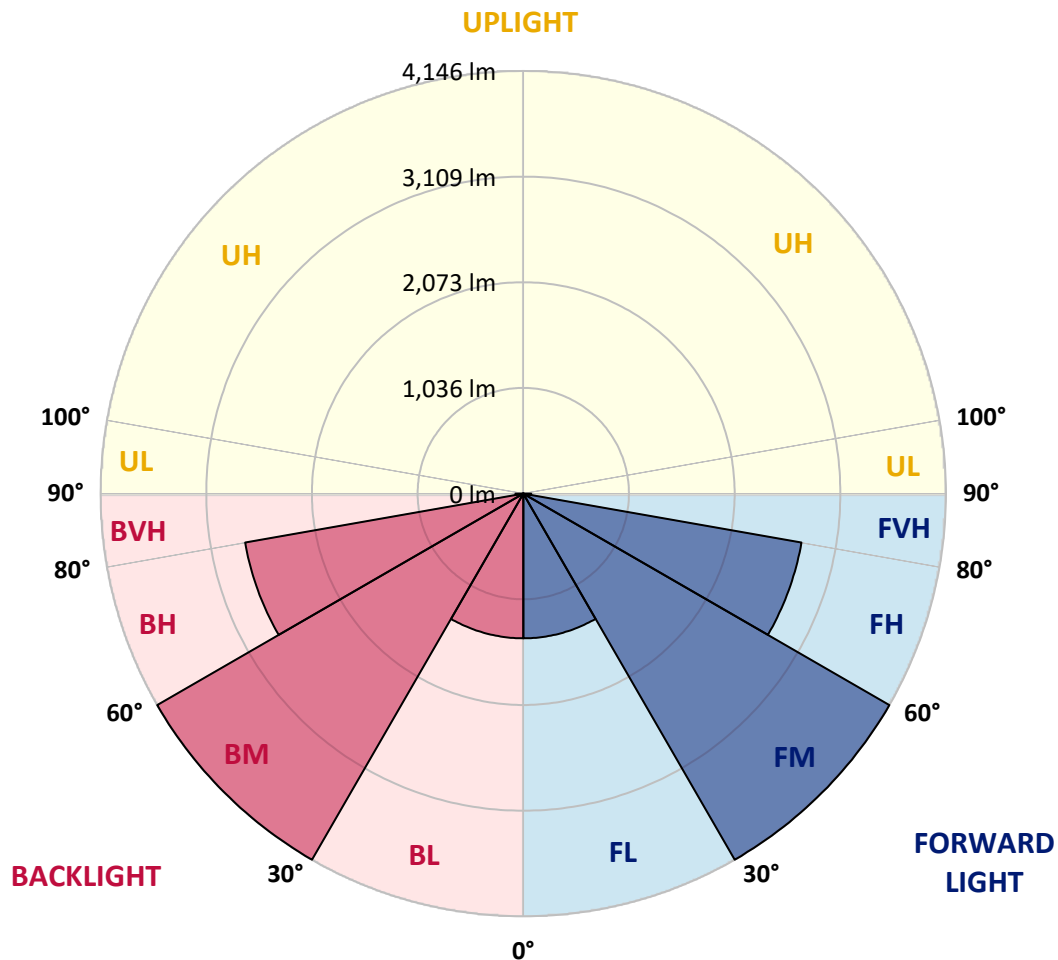
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1418.5	8.4			
FM	(30°-60°)	4145.6	24.6			
FH	(60°-80°)	2769.7	16.5			G2/5000
FVH	(80°-90°)	77.6	0.5			G1/100
BL	(0°-30°)	1418.5	8.4	B3/2500		
BM	(30°-60°)	4145.6	24.6	B3/5000		
BH	(60°-80°)	2769.7	16.5	B4/5000		G4/5000
BVH	(80°-90°)	77.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2
2.5°	3016.4	3014.5	3015.5	3014.5	3017.3	3015.5	3004.3	2995.0	2987.5	2988.4	2985.6
5°	3080.7	3081.6	3082.5	3077.9	3084.4	3080.7	3063.0	3048.1	3033.2	3027.6	3025.7
7.5°	3133.8	3138.4	3141.2	3145.9	3157.1	3157.1	3147.7	3126.3	3093.7	3075.1	3074.1
10°	3186.9	3190.6	3199.0	3213.9	3232.5	3250.2	3246.5	3217.6	3175.7	3144.0	3136.6
12.5°	3205.5	3210.2	3238.1	3281.0	3322.9	3357.3	3357.3	3334.1	3280.0	3231.6	3217.6
15°	3140.3	3148.7	3199.0	3290.3	3400.2	3475.6	3492.4	3459.8	3402.1	3327.5	3310.8
17.5°	3010.8	3031.3	3104.9	3240.0	3422.5	3579.1	3627.5	3611.7	3537.1	3442.1	3422.5
20°	2872.0	2894.4	2972.6	3151.5	3403.9	3639.6	3780.3	3784.0	3691.8	3553.9	3525.0
22.5°	2719.2	2736.0	2836.6	3046.2	3348.0	3653.6	3911.6	3975.9	3851.1	3665.7	3624.7
25°	2547.8	2566.4	2671.7	2898.1	3242.8	3637.7	4031.8	4173.4	4017.8	3784.9	3732.8
27.5°	2383.9	2391.3	2504.0	2734.1	3104.0	3596.8	4120.3	4355.0	4202.3	3883.7	3817.5
30°	2226.4	2244.1	2343.8	2571.1	2944.7	3516.6	4196.7	4561.8	4400.7	3987.1	3902.3
32.5°	2059.7	2081.1	2189.2	2419.3	2785.4	3396.5	4243.3	4788.2	4677.4	4154.8	4064.4
35°	1899.4	1913.4	2022.4	2246.0	2629.8	3256.7	4251.6	5043.5	5034.1	4409.1	4288.9
37.5°	1735.5	1756.0	1865.9	2080.2	2464.9	3108.6	4209.7	5314.5	5464.5	4762.1	4632.6
40°	1578.1	1595.8	1703.8	1919.9	2277.7	2927.9	4110.0	5562.3	5966.6	5125.4	4941.9
42.5°	1406.7	1411.3	1529.6	1749.5	2094.1	2718.3	3966.6	5783.1	6526.5	5612.6	5384.4
45°	1212.0	1224.1	1334.0	1550.1	1883.6	2483.5	3771.9	5965.7	7236.4	6288.0	5976.9
47.5°	1017.3	1027.5	1128.1	1341.4	1653.5	2214.3	3471.9	6125.9	7964.8	7146.0	6738.0
50°	827.2	832.8	914.8	1103.9	1394.5	1931.1	3100.2	6177.2	8788.3	8360.7	7840.0
52.5°	654.0	662.3	724.8	872.9	1117.9	1596.7	2698.7	6050.5	9749.7	9800.9	9066.9
55°	530.1	532.9	579.4	688.4	873.8	1246.4	2214.3	5697.4	10783.7	11646.4	10710.1
57.5°	456.5	458.3	484.4	545.0	672.6	939.9	1717.8	5029.5	11712.5	13808.5	12604.9
60°	414.5	415.5	430.4	465.8	532.9	721.0	1230.6	4086.8	12629.1	16214.7	14959.9
62.5°	388.5	388.5	398.7	418.3	450.9	553.3	891.5	2948.4	13257.0	18656.3	17862.6
65°	363.3	363.3	370.8	384.7	402.4	452.7	658.6	1922.7	13241.2	20434.7	20782.2
67.5°	334.4	334.4	340.0	354.0	364.2	389.4	508.6	1259.5	11894.1	20395.6	22375.1
70°	300.0	300.0	307.4	319.5	327.9	343.7	401.5	861.7	8738.0	17414.6	19899.0
72.5°	265.5	266.4	271.1	283.2	289.7	299.0	333.5	603.7	5360.2	11857.8	13913.8
75°	227.3	229.2	233.8	245.9	251.5	255.2	281.3	430.4	2711.8	6393.3	7279.2
77.5°	183.5	187.2	190.0	203.1	206.8	212.4	232.0	311.1	1190.5	2297.2	2317.7
80°	134.1	138.8	147.2	159.3	162.1	165.8	177.0	220.8	539.4	1048.9	1139.3
82.5°	98.7	105.3	95.0	110.9	110.9	106.2	124.8	148.1	247.8	1038.7	1242.7
85°	54.0	55.0	49.4	56.8	60.6	59.6	66.1	72.7	120.2	693.1	714.5
87.5°	13.0	14.0	14.9	17.7	21.4	21.4	23.3	20.5	39.1	224.5	128.6
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)