

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: P453947

Luminaire Tested: **GALN-SA5A-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453947  
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-SA5A-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20820 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

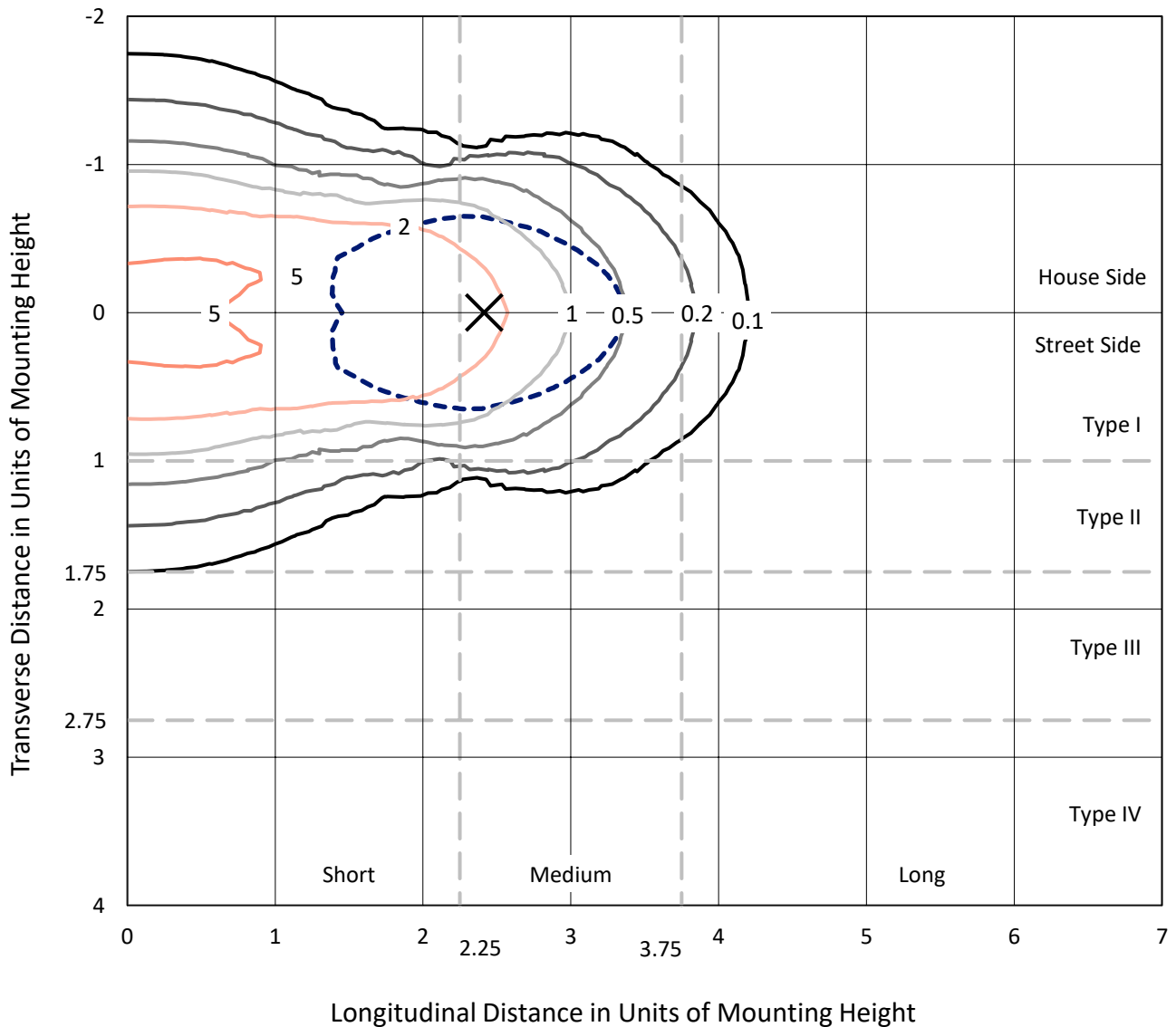
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

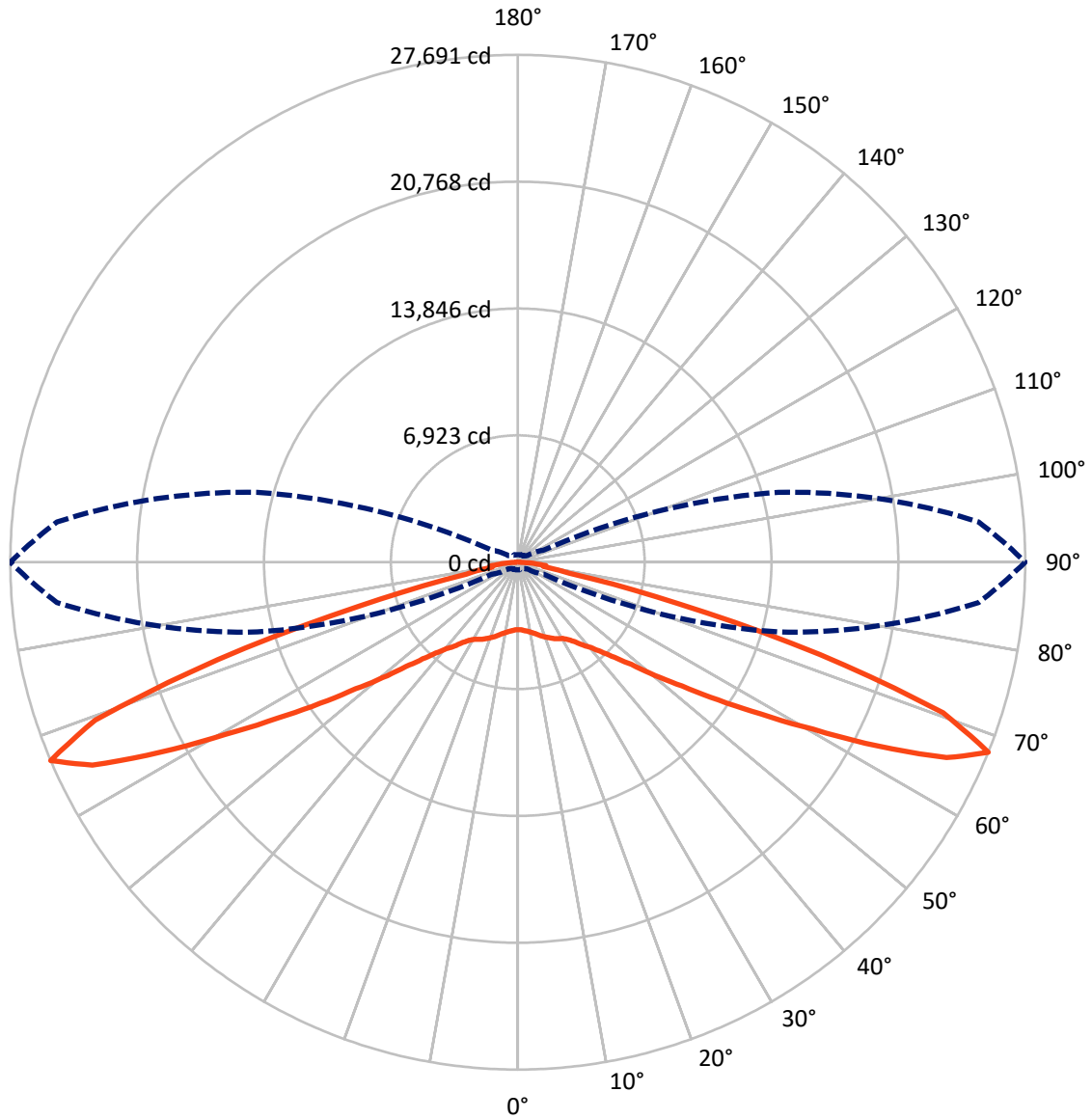
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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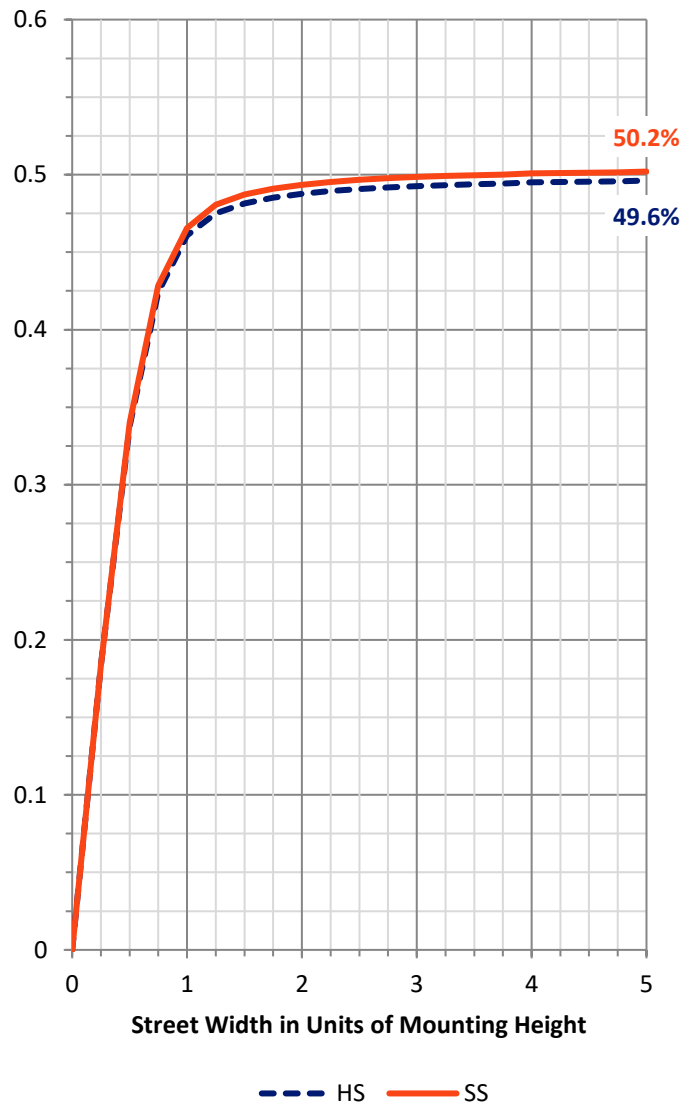
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10410.0	0.0	10410.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10410.0	0.0	10410.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20820.0	0.0	20820.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.5	1.8
10°-20°	1175.7	5.6
20°-30°	1967.8	9.5
30°-40°	2665.9	12.8
40°-50°	3376.8	16.2
50°-60°	4218.5	20.3
60°-70°	4958.6	23.8
70°-80°	1896.9	9.1
80°-90°	192.2	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°	20820.0	100.0
0°-180°	20820.0	100.0



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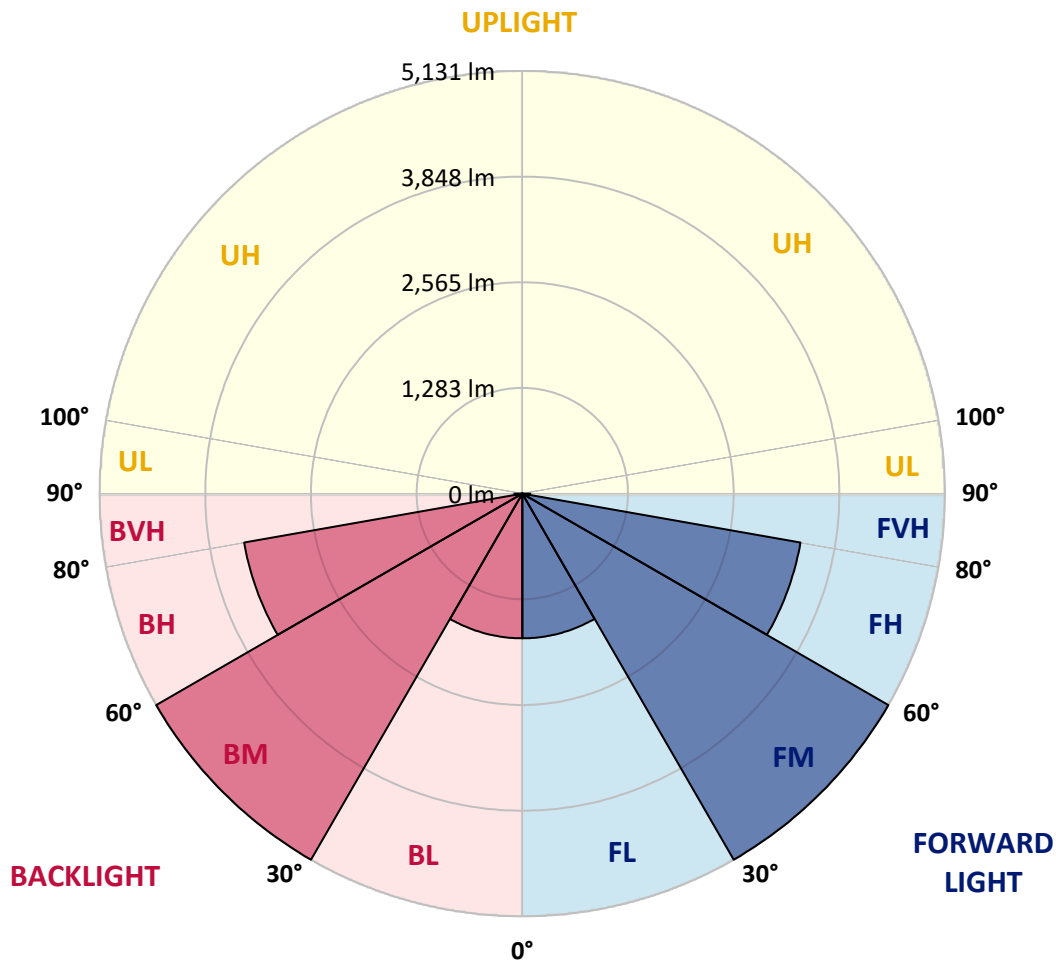
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.5	8.4			
FM (30°-60°)	5130.6	24.6			
FH (60°-80°)	3427.8	16.5			G2/5000
FVH (80°-90°)	96.1	0.5			G1/100
BL (0°-30°)	1755.5	8.4	B3/2500		
BM (30°-60°)	5130.6	24.6	B4/8500		
BH (60°-80°)	3427.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	96.1	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°	3685.8	3685.8	3685.8	3685.8	3685.8	3685.8	3685.8	3685.8	3685.8	3685.8	3685.8
2.5°	3733.1	3730.8	3731.9	3730.8	3734.2	3731.9	3718.1	3706.5	3697.3	3698.5	3695.0
5°	3812.6	3813.8	3814.9	3809.1	3817.2	3812.6	3790.7	3772.3	3753.8	3746.9	3744.6
7.5°	3878.3	3884.1	3887.5	3893.3	3907.1	3907.1	3895.6	3869.1	3828.7	3805.7	3804.5
10°	3944.0	3948.6	3959.0	3977.5	4000.5	4022.4	4017.8	3982.1	3930.2	3891.0	3881.8
12.5°	3967.1	3972.9	4007.4	4060.5	4112.4	4155.0	4155.0	4126.2	4059.3	3999.4	3982.1
15°	3886.4	3896.8	3959.0	4072.0	4208.0	4301.4	4322.2	4281.8	4210.4	4118.1	4097.4
17.5°	3726.1	3751.5	3842.6	4009.8	4235.7	4429.4	4489.4	4469.8	4377.5	4259.9	4235.7
20°	3554.4	3582.0	3678.9	3900.2	4212.7	4504.3	4678.4	4683.0	4568.9	4398.3	4362.5
22.5°	3365.3	3386.0	3510.5	3769.9	4143.5	4521.6	4841.0	4920.5	4766.0	4536.6	4485.9
25°	3153.2	3176.2	3306.5	3586.6	4013.2	4502.0	4989.7	5164.9	4972.4	4684.2	4619.6
27.5°	2950.2	2959.5	3099.0	3383.7	3841.4	4451.3	5099.2	5389.8	5200.7	4806.4	4724.5
30°	2755.4	2777.3	2900.7	3182.0	3644.3	4352.2	5193.8	5645.7	5446.3	4934.4	4829.5
32.5°	2549.0	2575.6	2709.3	2994.1	3447.1	4203.4	5251.4	5925.9	5788.7	5141.9	5030.1
35°	2350.7	2368.0	2502.9	2779.6	3254.6	4030.5	5261.8	6241.7	6230.2	5456.6	5307.9
37.5°	2147.8	2173.2	2309.2	2574.4	3050.5	3847.2	5209.9	6577.2	6762.9	5893.6	5733.3
40°	1953.0	1974.9	2108.6	2376.1	2818.8	3623.5	5086.5	6883.9	7384.3	6343.2	6116.1
42.5°	1740.9	1746.6	1893.0	2165.1	2591.7	3364.1	4909.0	7157.1	8077.1	6946.2	6663.7
45°	1499.9	1514.9	1650.9	1918.4	2331.1	3073.6	4668.1	7383.1	8955.6	7782.0	7396.9
47.5°	1259.0	1271.6	1396.1	1660.2	2046.4	2740.4	4296.8	7581.4	9857.2	8843.8	8338.9
50°	1023.8	1030.7	1132.1	1366.2	1725.9	2389.9	3836.8	7644.8	10876.4	10347.2	9702.7
52.5°	809.3	819.7	896.9	1080.3	1383.5	1976.1	3339.9	7488.0	12066.1	12129.6	11221.1
55°	656.0	659.5	717.1	852.0	1081.4	1542.6	2740.4	7051.1	13345.9	14413.4	13254.8
57.5°	564.9	567.2	599.5	674.4	832.4	1163.3	2125.9	6224.5	14495.3	17089.3	15599.7
60°	513.0	514.2	532.6	576.4	659.5	892.3	1523.0	5057.7	15629.7	20067.2	18514.3
62.5°	480.8	480.8	493.4	517.6	558.0	684.8	1103.3	3648.9	16406.8	23088.9	22106.7
65°	449.6	449.6	458.9	476.1	498.0	560.3	815.1	2379.6	16387.2	25289.8	25719.8
67.5°	413.9	413.9	420.8	438.1	450.8	481.9	629.5	1558.7	14720.1	25241.4	27691.3
70°	371.2	371.2	380.5	395.4	405.8	425.4	496.9	1066.4	10814.1	21552.1	24626.9
72.5°	328.6	329.7	335.5	350.5	358.5	370.1	412.7	747.1	6633.7	14675.1	17219.6
75°	281.3	283.6	289.4	304.4	311.3	315.9	348.2	532.6	3356.1	7912.3	9008.7
77.5°	227.1	231.7	235.2	251.3	255.9	262.9	287.1	385.1	1473.4	2843.0	2868.4
80°	166.0	171.8	182.2	197.1	200.6	205.2	219.0	273.2	667.5	1298.2	1410.0
82.5°	122.2	130.3	117.6	137.2	137.2	131.4	154.5	183.3	306.7	1285.5	1538.0
85°	66.9	68.0	61.1	70.3	74.9	73.8	81.9	89.9	148.7	857.7	884.3
87.5°	16.1	17.3	18.4	21.9	26.5	26.5	28.8	25.4	48.4	277.8	159.1
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)