

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: P454063

Luminaire Tested: **GALN-SA5A-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454063  
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-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16806 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

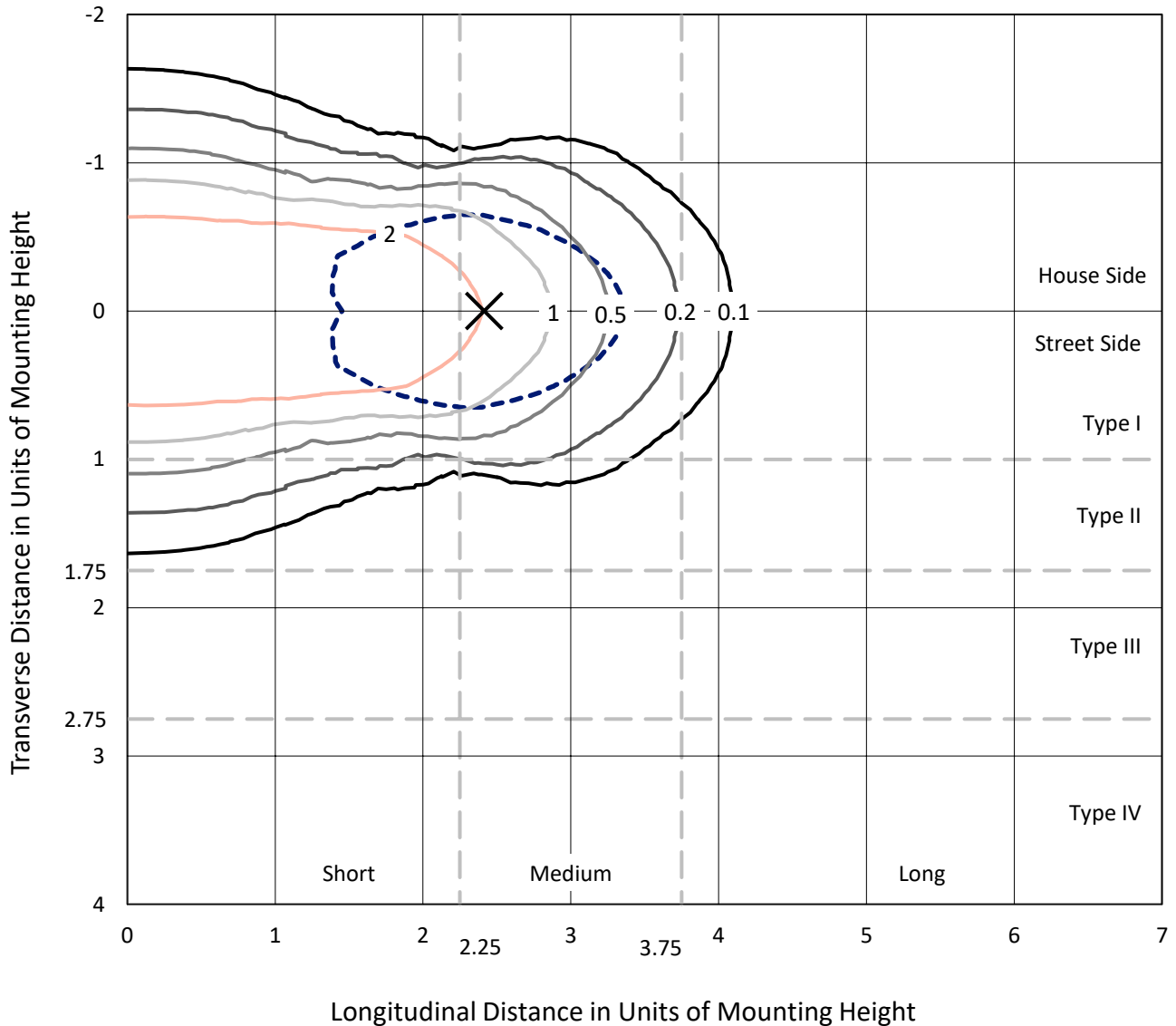
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

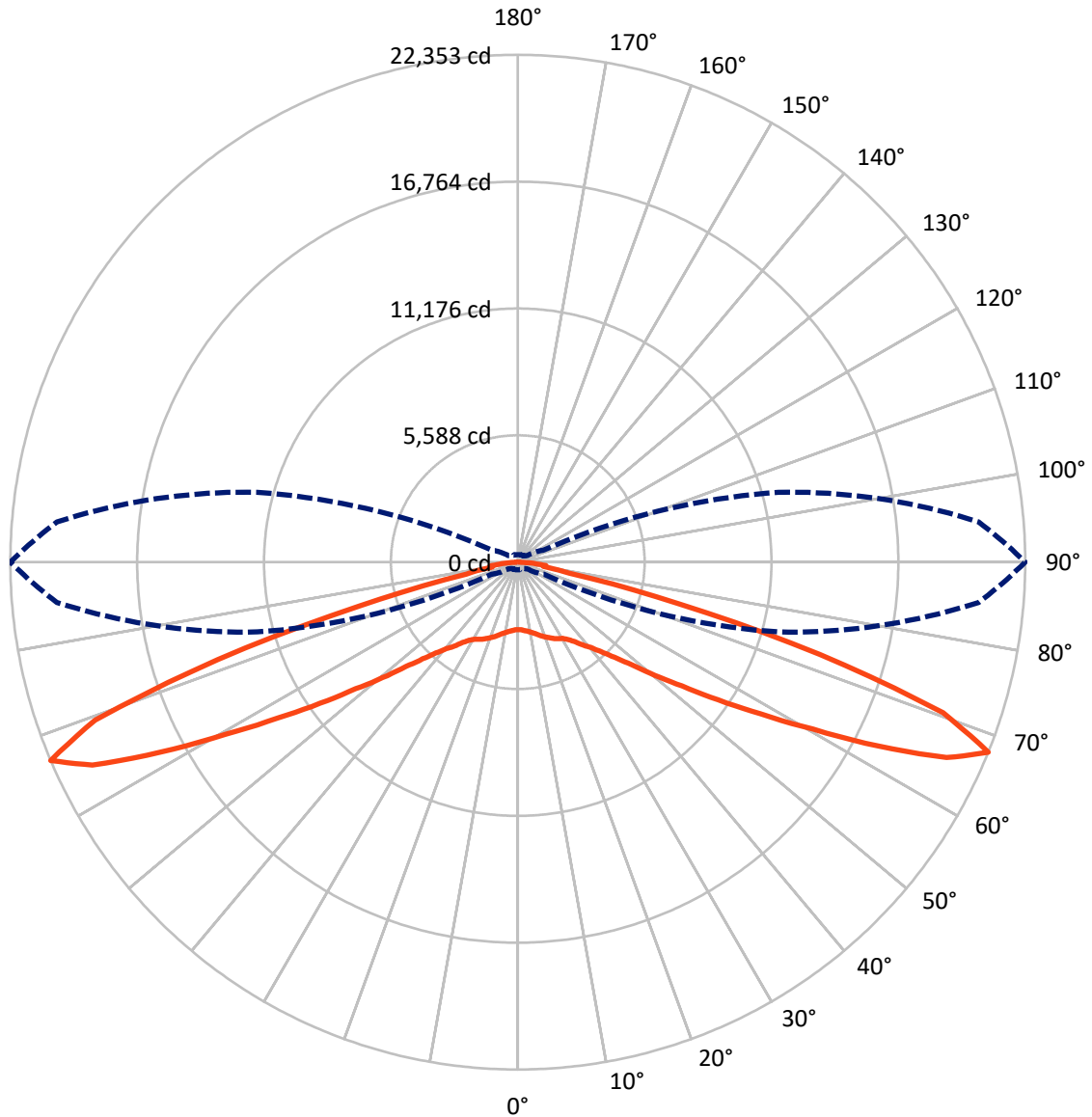
× Max cd  
 - - - 1/2 Max cd



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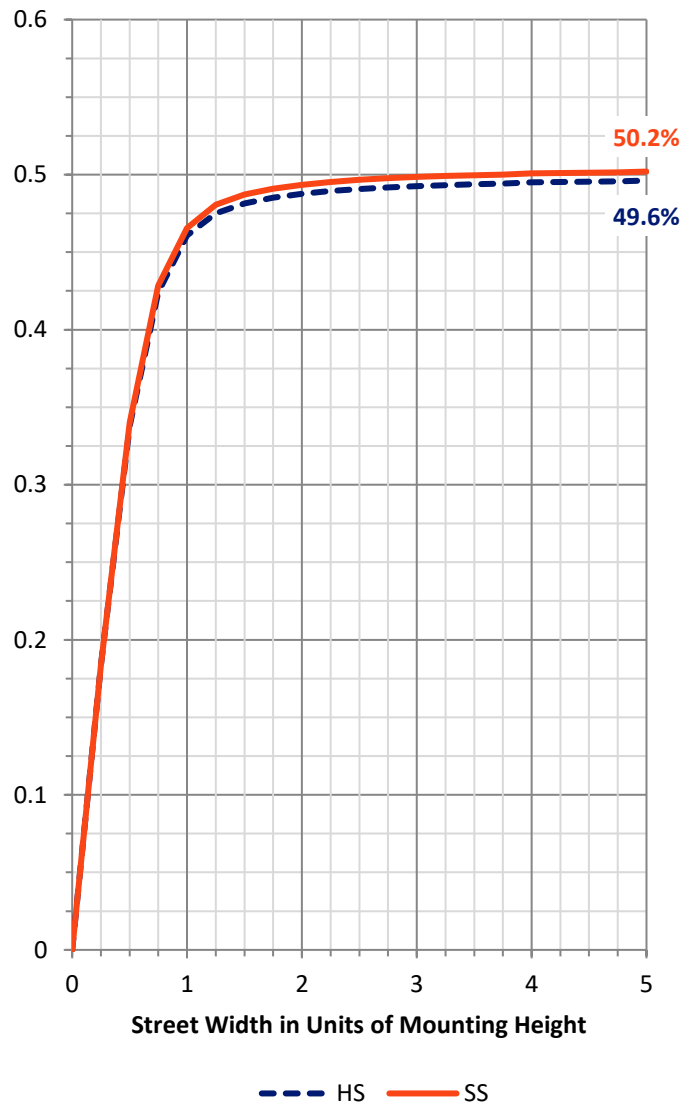
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8403.0	0.0	8403.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8403.0	0.0	8403.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16806.0	0.0	16806.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.6	1.8
10°-20°	949.0	5.6
20°-30°	1588.5	9.5
30°-40°	2151.9	12.8
40°-50°	2725.8	16.2
50°-60°	3405.2	20.3
60°-70°	4002.6	23.8
70°-80°	1531.2	9.1
80°-90°	155.1	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°	16806.0	100.0
0°-180°	16806.0	100.0



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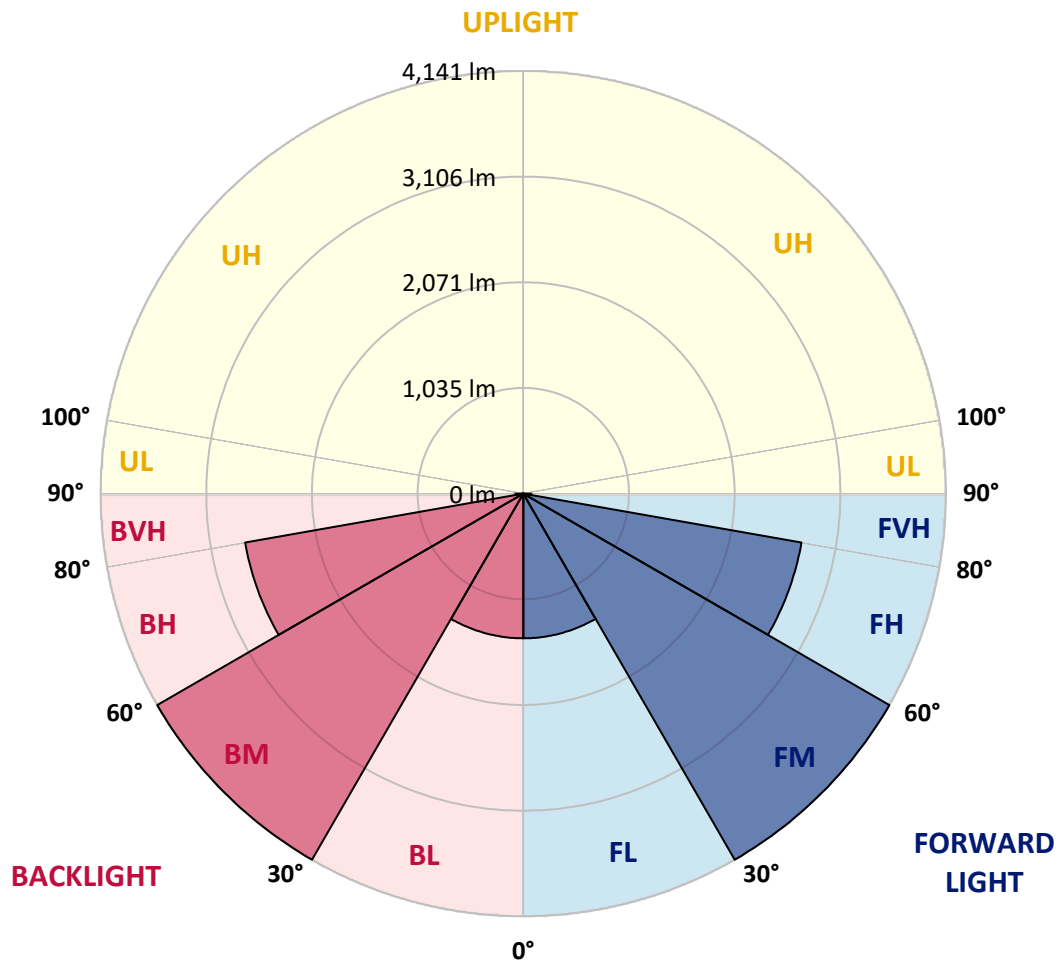
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.1	8.4			
FM	(30°-60°)	4141.5	24.6			
FH	(60°-80°)	2766.9	16.5			G2/5000
FVH	(80°-90°)	77.6	0.5			G1/100
BL	(0°-30°)	1417.1	8.4	B3/2500		
BM	(30°-60°)	4141.5	24.6	B3/5000		
BH	(60°-80°)	2766.9	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°	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2
2.5°	3013.3	3011.5	3012.4	3011.5	3014.3	3012.4	3001.2	2991.9	2984.5	2985.4	2982.6
5°	3077.6	3078.5	3079.4	3074.8	3081.3	3077.6	3059.9	3045.0	3030.1	3024.5	3022.6
7.5°	3130.6	3135.3	3138.0	3142.7	3153.9	3153.9	3144.6	3123.2	3090.6	3072.0	3071.0
10°	3183.6	3187.4	3195.7	3210.6	3229.2	3246.9	3243.2	3214.4	3172.5	3140.8	3133.4
12.5°	3202.3	3206.9	3234.8	3277.6	3319.5	3353.9	3353.9	3330.7	3276.7	3228.3	3214.4
15°	3137.1	3145.5	3195.7	3286.9	3396.8	3472.1	3488.9	3456.3	3398.6	3324.2	3307.4
17.5°	3007.8	3028.2	3101.7	3236.7	3419.1	3575.4	3623.8	3608.0	3533.6	3438.6	3419.1
20°	2869.1	2891.4	2969.6	3148.3	3400.5	3635.9	3776.4	3780.2	3688.0	3550.3	3521.5
22.5°	2716.5	2733.2	2833.7	3043.1	3344.6	3649.9	3907.7	3971.9	3847.2	3662.0	3621.0
25°	2545.2	2563.9	2669.0	2895.2	3239.5	3634.1	4027.7	4169.2	4013.8	3781.1	3729.0
27.5°	2381.5	2388.9	2501.5	2731.4	3100.8	3593.1	4116.1	4350.6	4198.0	3879.7	3813.7
30°	2224.2	2241.9	2341.4	2568.5	2941.7	3513.1	4192.4	4557.2	4396.2	3983.0	3898.4
32.5°	2057.6	2079.0	2187.0	2416.8	2782.5	3393.0	4239.0	4783.4	4672.6	4150.6	4060.3
35°	1897.5	1911.5	2020.4	2243.7	2627.1	3253.4	4247.3	5038.4	5029.1	4404.6	4284.6
37.5°	1733.7	1754.2	1864.0	2078.1	2462.4	3105.5	4205.5	5309.2	5459.0	4757.3	4628.0
40°	1576.5	1594.1	1702.1	1918.0	2275.4	2924.9	4105.9	5556.7	5960.6	5120.3	4936.9
42.5°	1405.2	1409.9	1528.1	1747.7	2092.0	2715.5	3962.6	5777.3	6519.9	5607.0	5379.0
45°	1210.7	1222.8	1332.6	1548.5	1881.7	2481.0	3768.1	5959.7	7229.0	6281.7	5970.8
47.5°	1016.2	1026.5	1127.0	1340.1	1651.8	2212.1	3468.4	6119.7	7956.8	7138.8	6731.2
50°	826.4	832.0	913.9	1102.8	1393.1	1929.2	3097.1	6170.9	8779.4	8352.3	7832.1
52.5°	653.3	661.7	724.0	872.0	1116.7	1595.1	2696.0	6044.4	9739.8	9791.0	9057.7
55°	529.5	532.3	578.8	687.7	872.9	1245.2	2212.1	5691.7	10772.8	11634.6	10699.3
57.5°	456.0	457.9	483.9	544.4	671.9	939.0	1716.1	5024.4	11700.7	13794.5	12592.2
60°	414.1	415.1	429.9	465.3	532.3	720.3	1229.3	4082.6	12616.4	16198.3	14944.8
62.5°	388.1	388.1	398.3	417.8	450.4	552.8	890.6	2945.4	13243.6	18637.5	17844.6
65°	362.9	362.9	370.4	384.3	402.0	452.3	657.9	1920.8	13227.8	20414.0	20761.2
67.5°	334.1	334.1	339.7	353.6	363.9	389.0	508.1	1258.2	11882.1	20374.9	22352.5
70°	299.7	299.7	307.1	319.2	327.6	343.4	401.1	860.8	8729.2	17397.0	19878.9
72.5°	265.2	266.2	270.8	282.9	289.4	298.7	333.2	603.0	5354.8	11845.8	13899.7
75°	227.1	228.9	233.6	245.7	251.3	255.0	281.0	429.9	2709.0	6386.8	7271.8
77.5°	183.3	187.1	189.8	202.9	206.6	212.2	231.7	310.8	1189.3	2294.9	2315.4
80°	134.0	138.7	147.0	159.1	161.9	165.6	176.8	220.6	538.8	1047.9	1138.1
82.5°	98.6	105.2	94.9	110.7	110.7	106.1	124.7	148.0	247.5	1037.6	1241.4
85°	54.0	54.9	49.3	56.8	60.5	59.6	66.1	72.6	120.0	692.4	713.8
87.5°	13.0	14.0	14.9	17.7	21.4	21.4	23.3	20.5	39.1	224.3	128.4
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)