

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: P456691

Luminaire Tested: **GALN-SA8A-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456691  
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-SA8A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31863 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

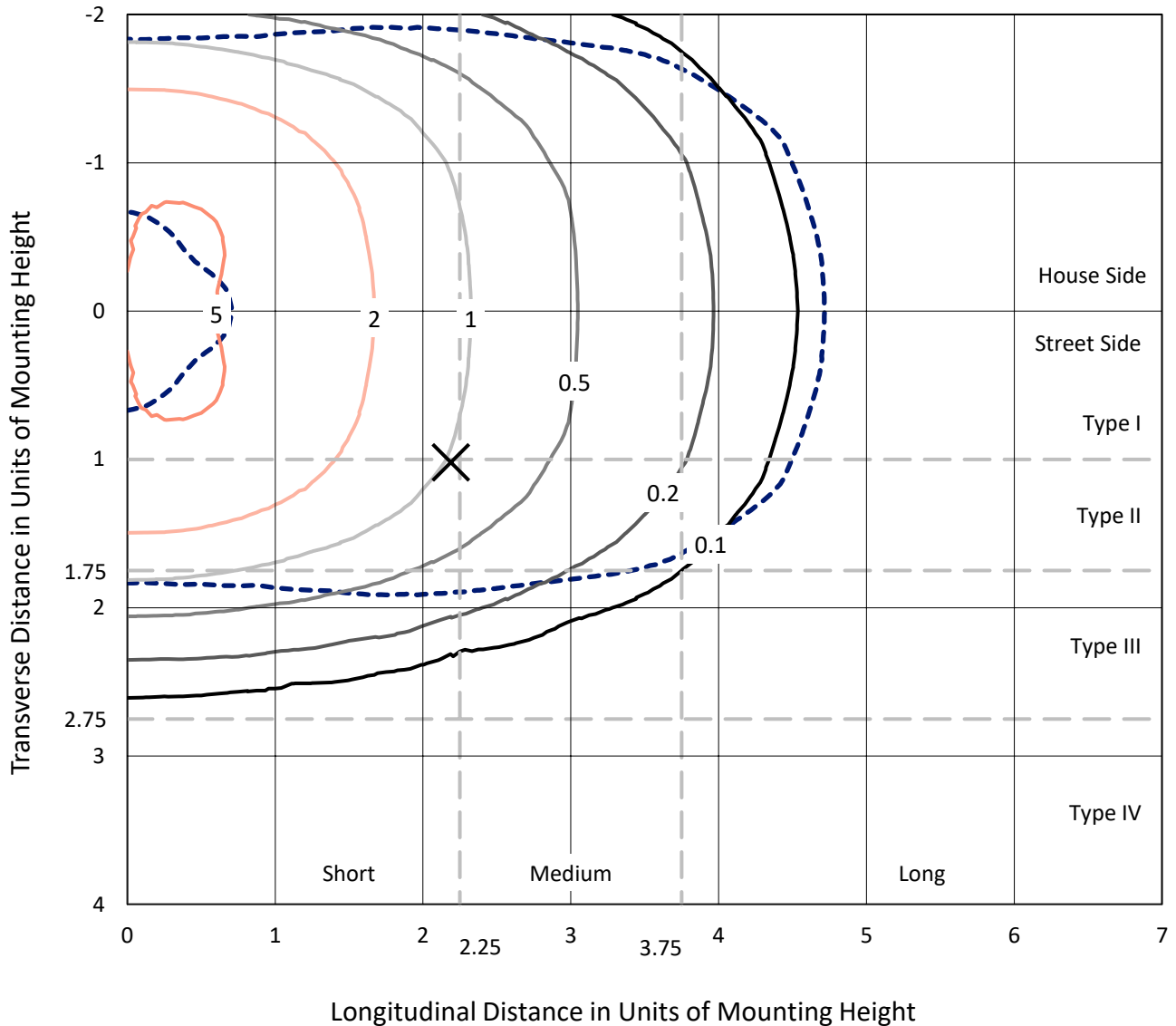
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

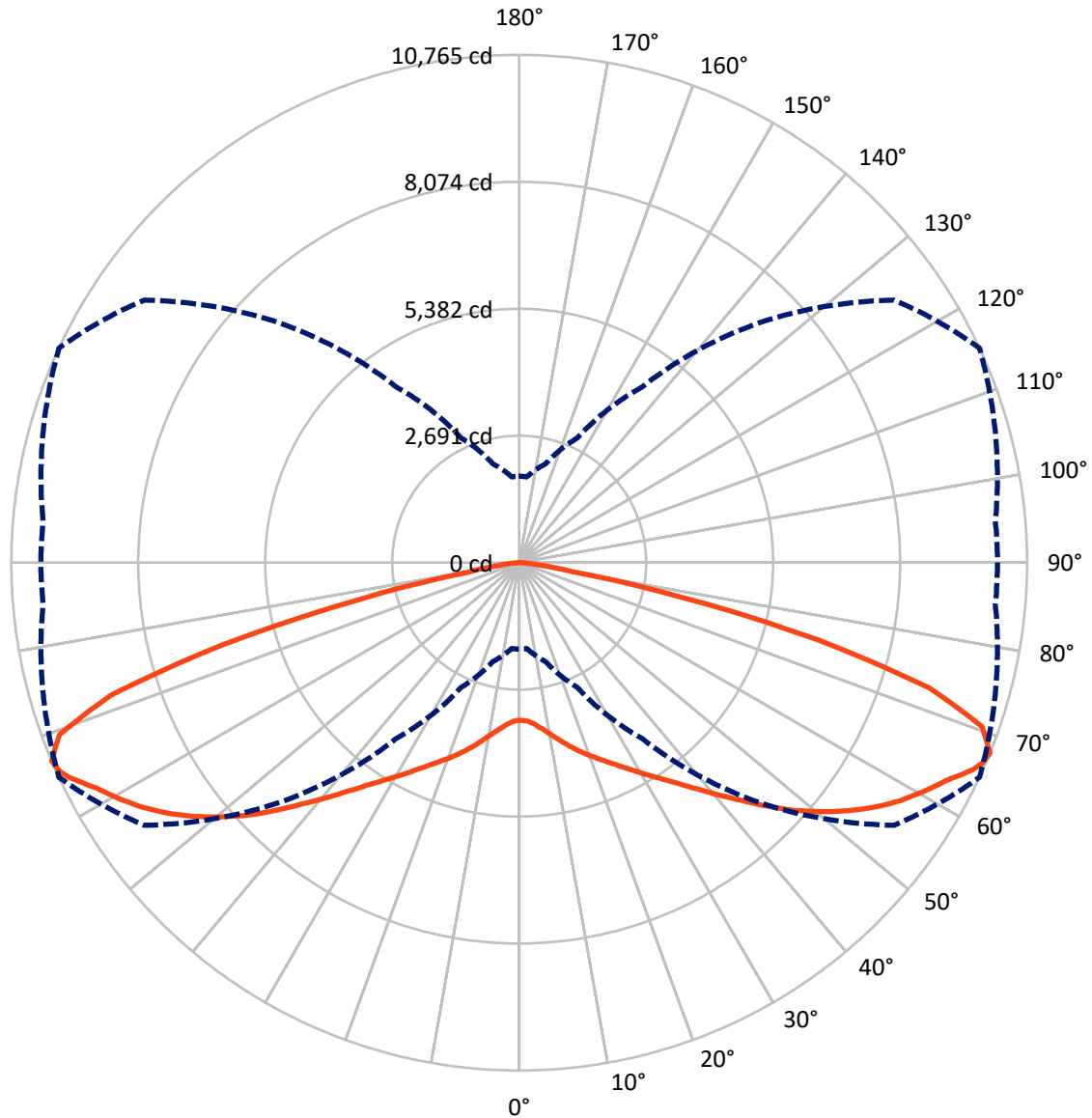
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	15931.5	0.0	15931.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15931.5	0.0	15931.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31863.0	0.0	31863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.2	1.0
10°-20°	1101.7	3.5
20°-30°	2154.9	6.8
30°-40°	3665.2	11.5
40°-50°	5800.9	18.2
50°-60°	7691.9	24.1
60°-70°	7255.8	22.8
70°-80°	3586.9	11.3
80°-90°	276.4	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°	31863.0	100.0
0°-180°	31863.0	100.0

**Coefficient of Utilization**



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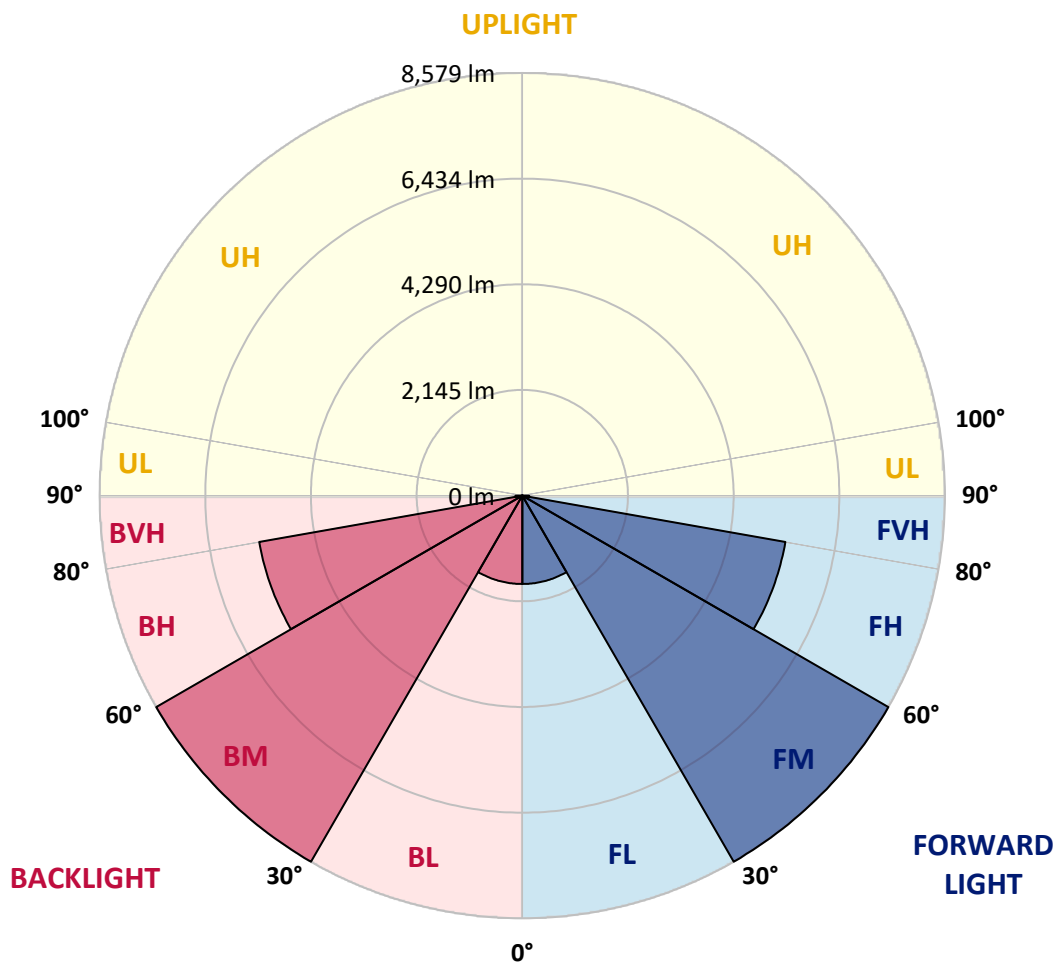
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1792.9	5.6			
FM	(30°-60°)	8579.0	26.9			
FH	(60°-80°)	5421.4	17.0			G3/7500
FVH	(80°-90°)	138.2	0.4			G2/225
BL	(0°-30°)	1792.9	5.6	B3/2500		
BM	(30°-60°)	8579.0	26.9	B5		
BH	(60°-80°)	5421.4	17.0	B5		G5
BVH	(80°-90°)	138.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3337.4	3337.4	3337.4	3337.4	3337.4	3337.4	3337.4	3337.4	3337.4	3337.4	3337.4
2.5°	3320.3	3323.7	3327.1	3332.2	3339.1	3349.3	3356.1	3361.3	3374.9	3376.6	3374.9
5°	3308.3	3311.8	3320.3	3335.7	3357.9	3388.6	3412.5	3441.5	3463.7	3479.1	3475.6
7.5°	3306.6	3313.5	3327.1	3359.6	3402.2	3455.2	3509.8	3559.3	3602.0	3636.1	3631.0
10°	3334.0	3342.5	3364.7	3412.5	3479.1	3555.9	3632.7	3706.1	3767.6	3811.9	3827.3
12.5°	3380.0	3386.9	3427.8	3499.5	3595.1	3690.7	3777.8	3868.3	3953.6	4028.7	4028.7
15°	3460.3	3472.2	3523.4	3627.6	3745.4	3856.3	3945.1	4040.7	4132.9	4218.2	4243.8
17.5°	3571.2	3588.3	3665.1	3798.3	3948.5	4050.9	4134.6	4213.1	4293.3	4375.3	4387.2
20°	3723.2	3740.2	3842.7	4003.1	4180.7	4303.6	4359.9	4378.7	4418.0	4496.5	4506.7
22.5°	3929.7	3946.8	4061.2	4242.1	4440.2	4573.3	4597.2	4552.8	4542.6	4604.0	4610.9
25°	4163.6	4179.0	4310.4	4505.0	4709.9	4855.0	4848.1	4738.9	4677.4	4715.0	4725.2
27.5°	4426.5	4448.7	4581.8	4783.3	5005.2	5133.2	5112.7	4954.0	4822.5	4815.7	4819.1
30°	4762.8	4786.7	4913.0	5105.9	5324.4	5442.2	5399.5	5186.2	4983.0	4914.7	4914.7
32.5°	5117.9	5177.6	5305.6	5507.1	5677.8	5763.1	5698.3	5442.2	5172.5	5076.9	5071.8
35°	5580.5	5612.9	5739.2	5935.6	6063.6	6130.2	6005.6	5730.7	5420.0	5307.4	5292.0
37.5°	6032.9	6060.2	6207.0	6394.8	6550.1	6546.7	6377.7	6073.8	5727.3	5601.0	5590.7
40°	6495.5	6524.5	6691.8	6864.2	7019.6	7005.9	6801.1	6461.3	6092.6	5950.9	5978.2
42.5°	6896.7	6929.1	7118.6	7364.4	7504.4	7501.0	7263.7	6881.3	6497.2	6370.9	6394.8
45°	7262.0	7291.0	7511.2	7792.9	7997.7	8023.3	7763.9	7359.3	6964.9	6802.8	6809.6
47.5°	7519.7	7574.4	7804.8	8127.5	8405.7	8496.2	8241.8	7845.8	7391.7	7222.7	7233.0
50°	7716.1	7750.2	8001.1	8368.2	8719.8	8907.6	8702.8	8296.5	7818.5	7639.2	7663.1
52.5°	7740.0	7780.9	8054.1	8477.4	8928.1	9213.2	9112.5	8736.9	8253.8	8069.4	8120.6
55°	7545.4	7569.3	7895.3	8409.1	9010.0	9440.2	9465.8	9146.6	8668.6	8528.6	8562.8
57.5°	6990.5	7052.0	7465.1	8089.9	8897.4	9561.4	9730.4	9518.8	9088.6	8950.3	9004.9
60°	6080.7	6142.1	6556.9	7349.0	8472.3	9505.1	9948.9	9848.2	9469.2	9358.3	9387.3
62.5°	4764.5	4759.4	5273.2	6244.5	7627.3	9228.5	10111.1	10165.7	9844.8	9704.8	9749.2
65°	3088.1	3103.5	3600.3	4646.7	6352.1	8525.2	10147.0	10570.3	10213.5	10001.9	10034.3
66°	2483.8	2529.9	2951.6	3916.1	5701.7	8064.3	10039.4	10689.8	10326.2	10070.1	10085.5
67.5°	1833.4	1824.9	2171.4	2915.7	4552.8	7188.6	9703.1	10764.9	10454.2	10131.6	10138.4
70°	1046.4	1044.7	1167.7	1601.3	2676.7	5061.5	8178.7	10404.7	10713.7	10353.5	10334.7
72.5°	764.8	759.7	776.7	884.3	1305.9	2555.5	5641.9	9093.7	10580.6	10317.7	10264.8
75°	641.9	638.5	635.0	648.7	732.3	1157.4	2994.2	6541.6	9180.7	9684.3	9629.7
77.5°	524.1	524.1	525.8	522.4	525.8	609.4	1241.1	3506.4	5590.7	6241.1	6393.1
80°	409.7	408.0	437.0	425.1	397.8	390.9	549.7	1128.4	1855.6	1845.4	1522.7
82.5°	302.2	281.7	332.9	324.3	293.6	249.2	320.9	481.4	619.7	402.9	298.7
85°	191.2	189.5	235.6	215.1	179.2	117.8	153.6	206.6	256.1	155.3	126.3
87.5°	34.1	32.4	75.1	54.6	54.6	34.1	42.7	56.3	83.6	58.0	42.7
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)