

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: P456686

Luminaire Tested: **GALN-SA8A-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32391 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

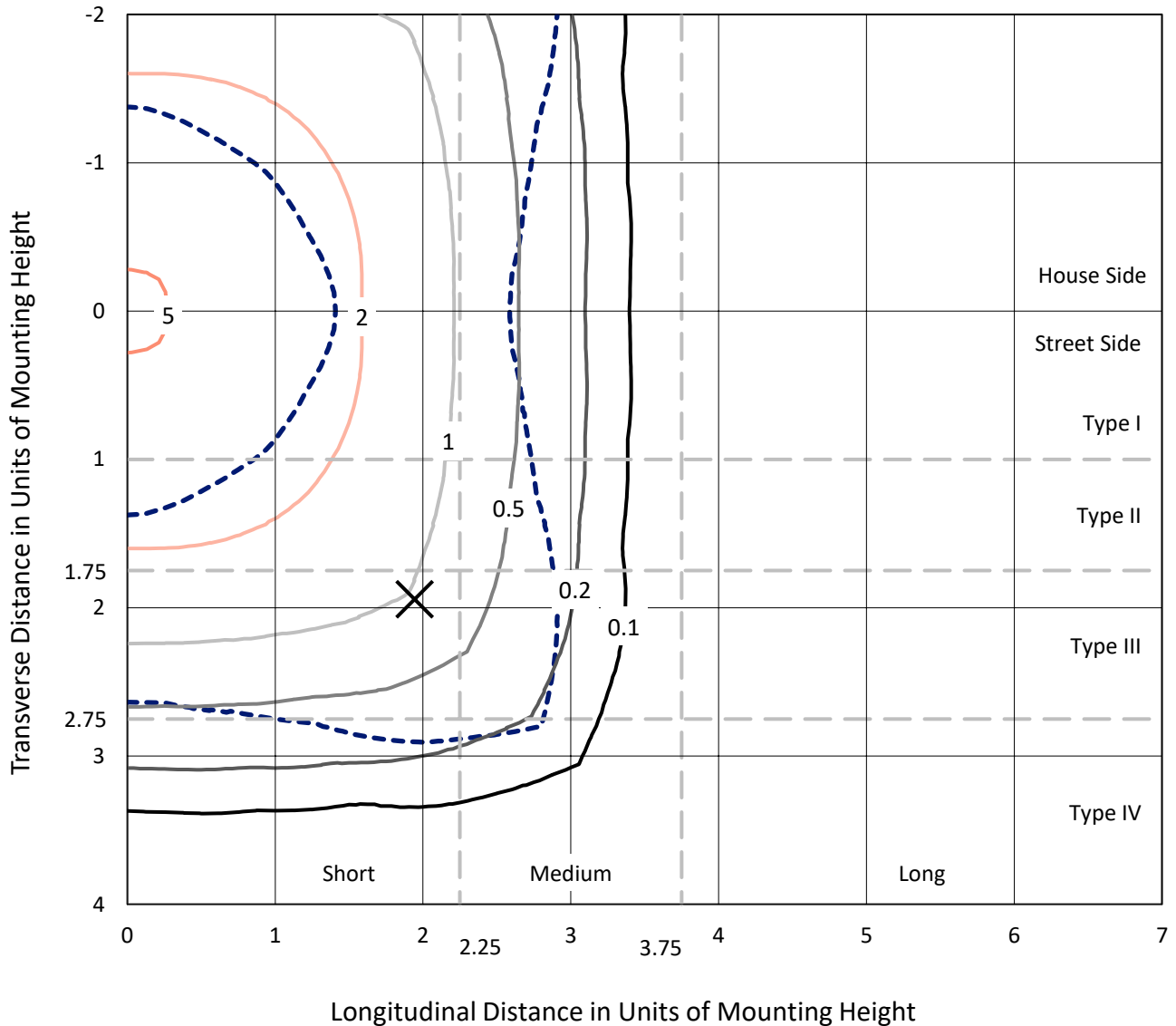
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

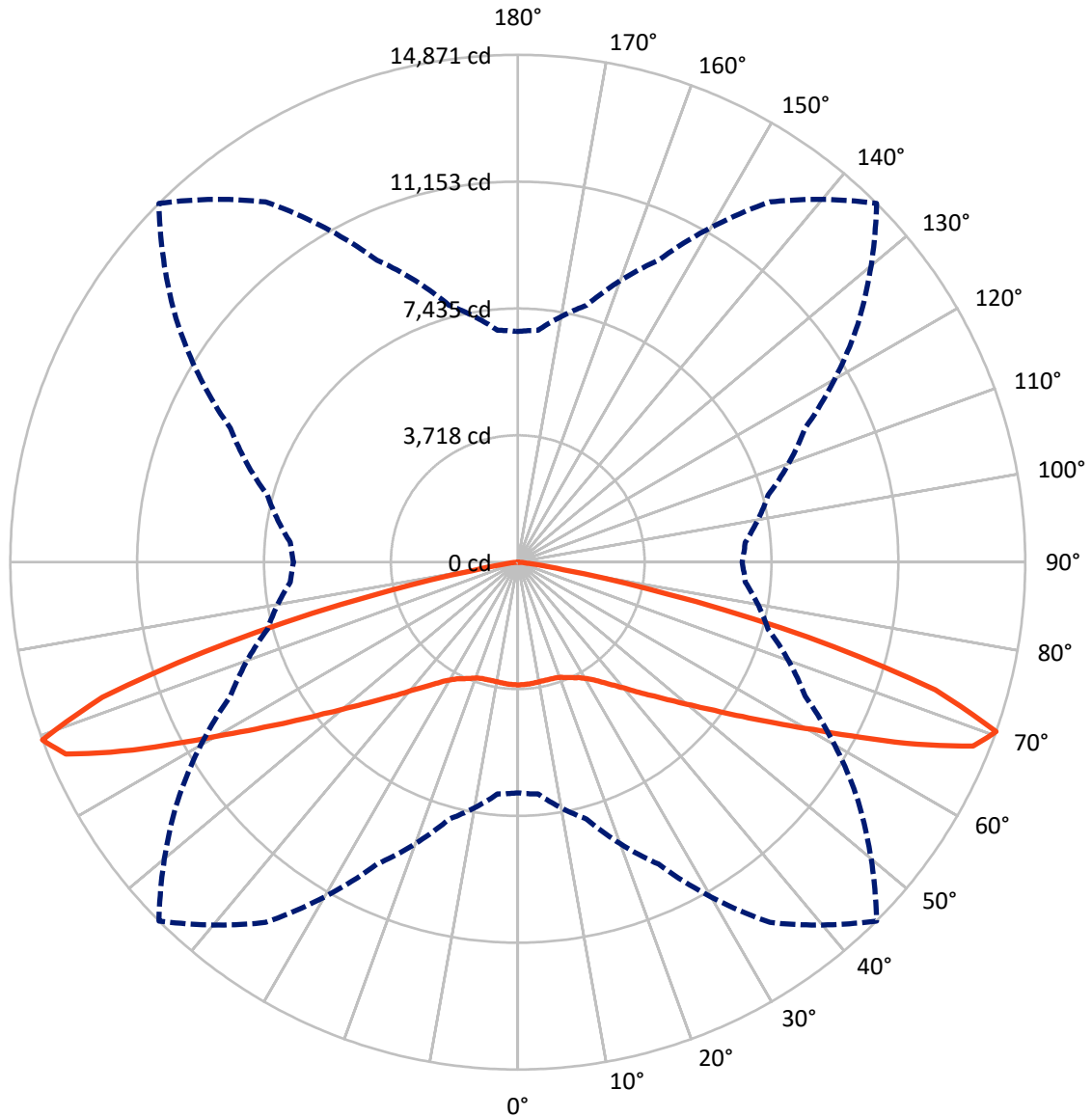
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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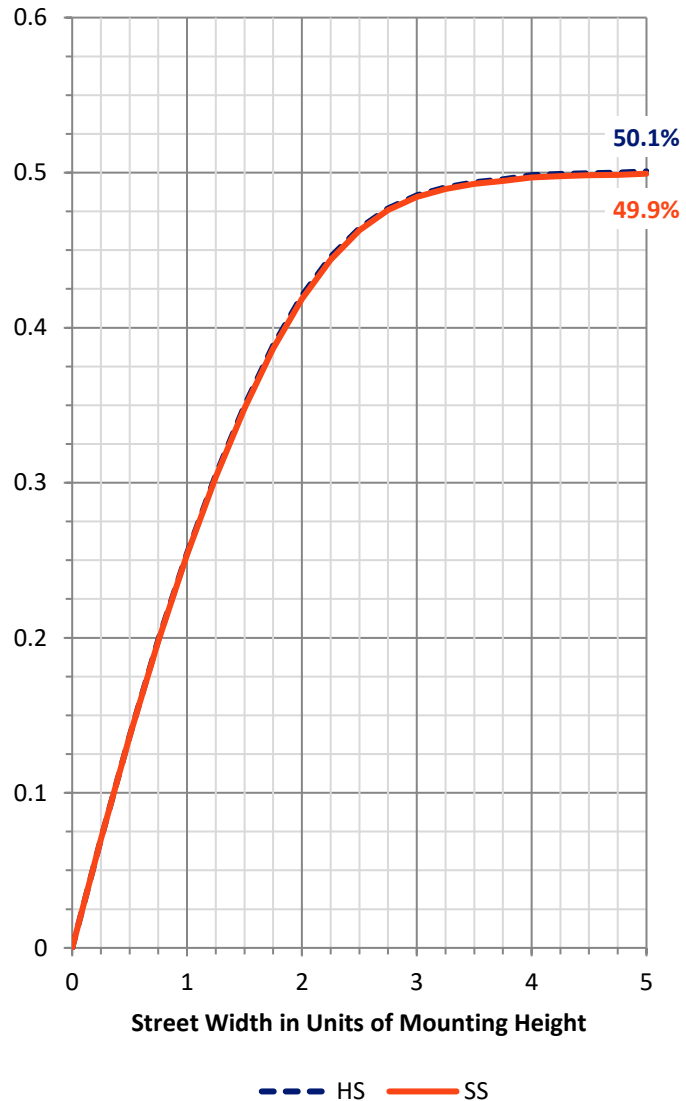
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16195.5	0.0	16195.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16195.5	0.0	16195.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32391.0	0.0	32391.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.1	1.1
10°-20°	1000.9	3.1
20°-30°	1711.8	5.3
30°-40°	2717.0	8.4
40°-50°	4383.3	13.5
50°-60°	7131.7	22.0
60°-70°	10338.5	31.9
70°-80°	4585.8	14.2
80°-90°	180.9	0.6
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°	32391.0	100.0
0°-180°	32391.0	100.0

**Coefficient of Utilization**



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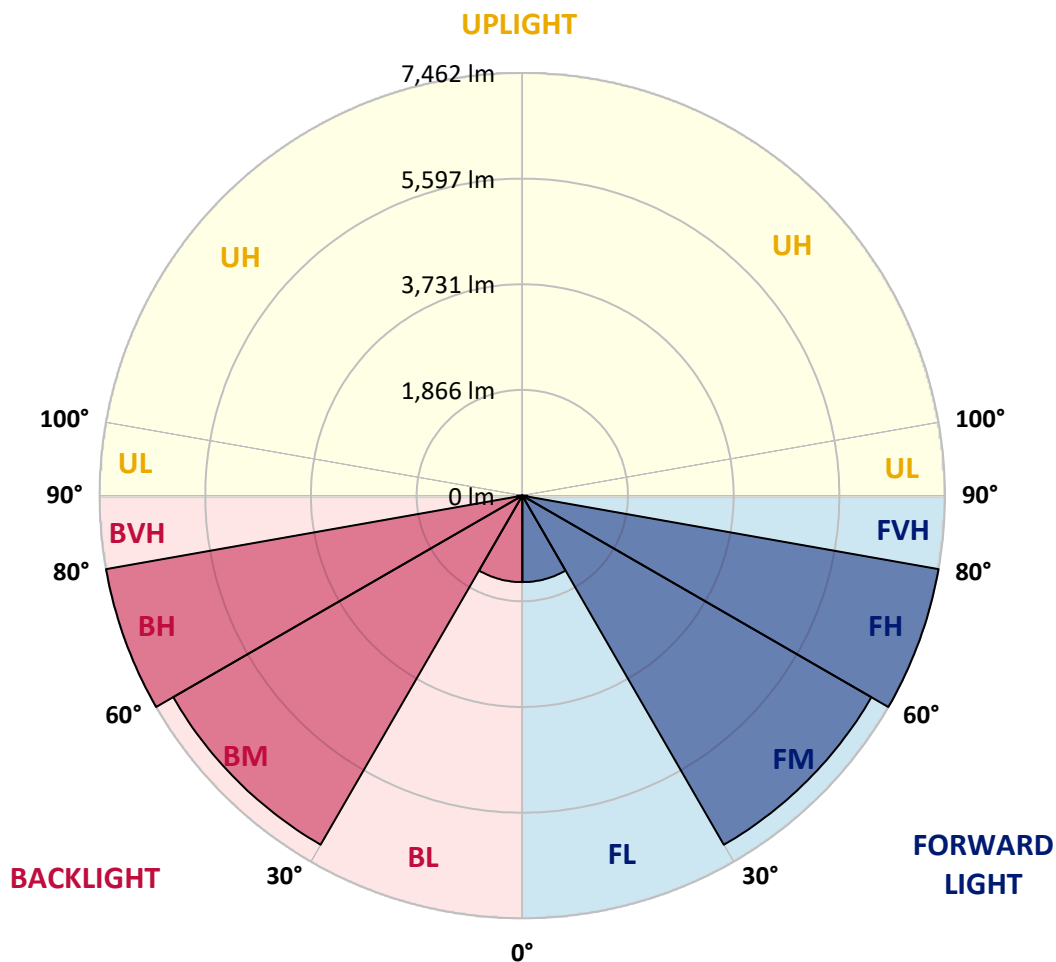
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.9	4.7			
FM (30°-60°)	7116.0	22.0			
FH (60°-80°)	7462.1	23.0			G3/7500
FVH (80°-90°)	90.4	0.3			G1/100
BL (0°-30°)	1526.9	4.7	B3/2500		
BM (30°-60°)	7116.0	22.0	B4/8500		
BH (60°-80°)	7462.1	23.0	B5		G3/7500
BVH (80°-90°)	90.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3596.9	3596.9	3596.9	3596.9	3596.9	3596.9	3596.9	3596.9	3596.9	3596.9	3596.9
2.5°	3596.9	3600.3	3595.2	3591.7	3590.0	3590.0	3588.3	3590.0	3600.3	3602.0	3596.9
5°	3586.6	3590.0	3588.3	3584.9	3583.2	3583.2	3581.5	3579.8	3588.3	3591.7	3590.0
7.5°	3573.0	3574.7	3573.0	3571.3	3573.0	3571.3	3566.1	3562.7	3569.6	3569.6	3567.8
10°	3549.1	3552.5	3550.8	3552.5	3555.9	3555.9	3549.1	3542.2	3543.9	3540.5	3540.5
12.5°	3520.0	3525.2	3526.9	3533.7	3542.2	3552.5	3537.1	3521.8	3518.3	3516.6	3514.9
15°	3501.3	3506.4	3513.2	3520.0	3535.4	3557.6	3535.4	3511.5	3504.7	3497.9	3494.4
17.5°	3496.1	3503.0	3513.2	3523.5	3543.9	3566.1	3547.4	3523.5	3506.4	3496.1	3492.7
20°	3509.8	3514.9	3530.3	3549.1	3578.1	3600.3	3581.5	3555.9	3530.3	3514.9	3509.8
22.5°	3537.1	3545.7	3564.4	3598.6	3639.5	3672.0	3646.4	3603.7	3562.7	3542.2	3535.4
25°	3596.9	3603.7	3625.9	3672.0	3719.8	3750.5	3723.2	3673.7	3617.4	3590.0	3581.5
27.5°	3687.3	3697.6	3721.5	3776.1	3815.4	3832.4	3813.7	3779.5	3738.6	3709.5	3702.7
30°	3815.4	3827.3	3863.2	3921.2	3946.8	3957.1	3948.5	3926.3	3897.3	3866.6	3859.8
32.5°	3987.8	3994.6	4035.6	4090.2	4114.1	4117.5	4107.3	4097.0	4049.3	3998.0	3994.6
35°	4180.7	4192.6	4242.2	4307.0	4329.2	4330.9	4310.4	4295.1	4238.7	4197.8	4197.8
37.5°	4436.8	4441.9	4489.7	4563.1	4587.0	4580.2	4569.9	4556.3	4496.5	4443.6	4445.3
40°	4737.2	4747.5	4788.4	4873.8	4873.8	4865.2	4872.1	4861.8	4802.1	4750.9	4752.6
42.5°	5094.0	5099.1	5148.6	5239.1	5232.3	5215.2	5222.0	5208.4	5170.8	5112.8	5092.3
45°	5474.7	5495.2	5580.5	5667.6	5653.9	5599.3	5626.6	5623.2	5589.1	5502.0	5507.1
47.5°	5933.9	5968.0	6050.0	6154.1	6138.7	6053.4	6084.1	6104.6	6056.8	5961.2	5944.1
50°	6451.1	6473.3	6594.5	6691.8	6678.2	6587.7	6657.7	6661.1	6541.6	6406.8	6406.8
52.5°	7002.5	7024.7	7188.6	7340.5	7349.1	7217.6	7274.0	7270.6	7075.9	6898.4	6864.3
55°	7620.5	7630.8	7842.4	8066.1	8113.9	7985.8	7992.7	7924.4	7671.7	7465.2	7446.4
57.5°	8259.0	8296.5	8530.4	8820.6	8962.3	8883.8	8847.9	8665.3	8421.1	8183.9	8171.9
60°	8965.7	8967.4	9271.3	9614.4	9901.2	9954.1	9807.3	9563.2	9247.4	8933.3	8919.6
62.5°	9455.6	9529.1	9913.2	10493.6	11007.4	11304.4	10916.9	10404.8	9783.4	9276.4	9225.2
65°	9556.4	9605.9	10191.4	11174.7	12224.6	12864.7	11968.5	10879.4	9819.3	9143.2	9109.1
67.5°	8742.1	8795.0	9583.7	11092.8	13078.1	14390.9	12651.3	10650.6	9211.5	8375.1	8308.5
70°	6761.8	6821.6	7796.3	9764.6	12888.6	14870.6	12164.8	9290.1	7596.6	6693.6	6572.3
72.5°	3595.2	3815.4	4648.4	6702.1	10461.1	12803.3	9974.6	6778.9	4899.4	4004.9	3844.4
75°	1312.8	1340.1	1804.4	2972.1	6085.8	8779.6	6319.7	3233.3	1859.0	1435.7	1362.3
77.5°	542.9	541.2	594.1	897.9	2210.7	4496.5	2466.8	949.1	592.4	548.0	541.2
80°	320.9	320.9	353.4	373.9	582.1	1357.1	650.4	423.4	355.1	324.3	329.5
82.5°	143.4	151.9	223.6	235.6	281.7	372.1	314.1	269.7	232.2	160.5	145.1
85°	78.5	68.3	117.8	122.9	134.9	138.3	148.5	146.8	134.9	78.5	80.2
87.5°	15.4	18.8	34.1	25.6	29.0	25.6	34.1	47.8	49.5	27.3	22.2
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)