

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: P648030

Luminaire Tested: **GALN-SA7A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21159 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

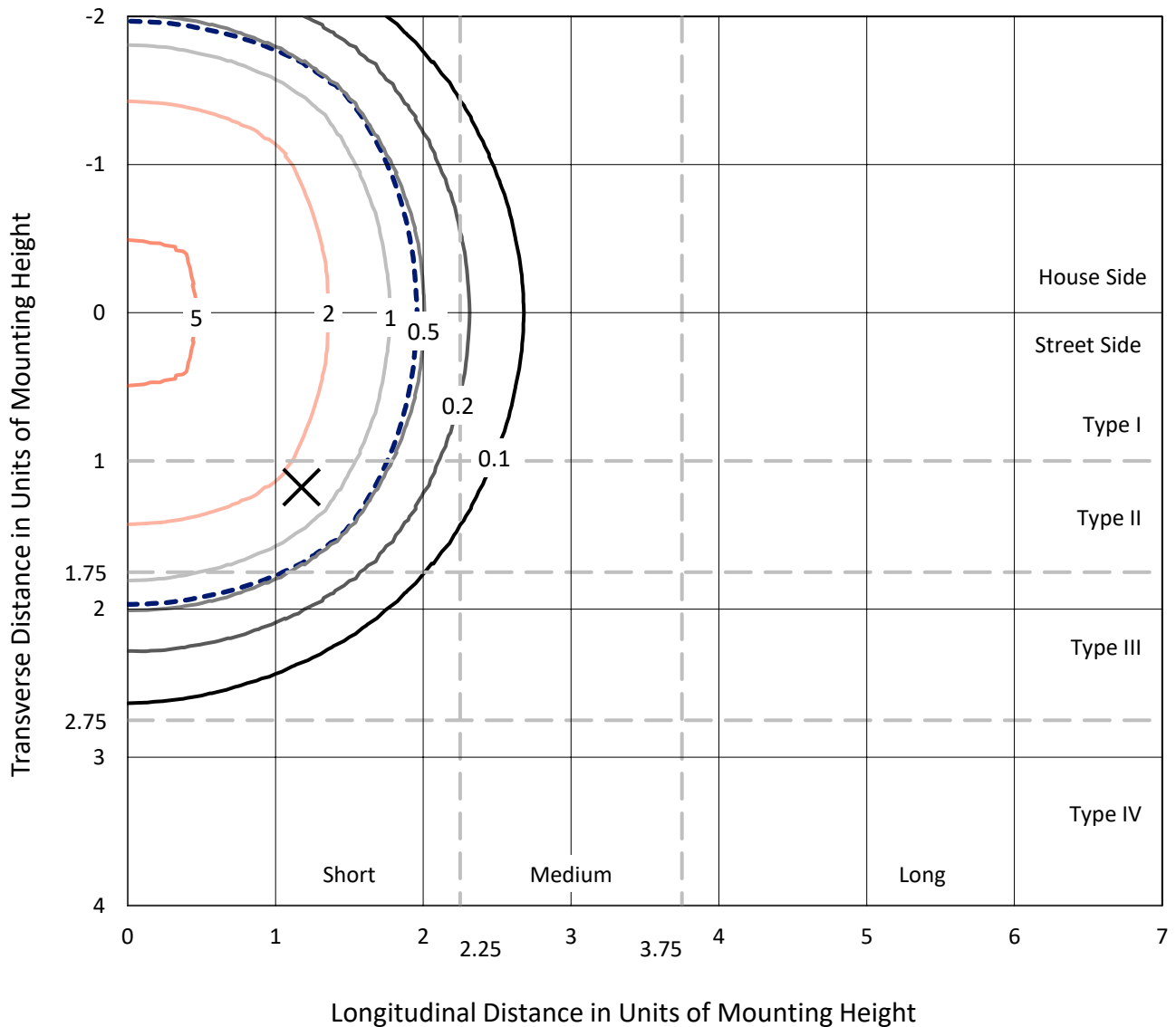
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

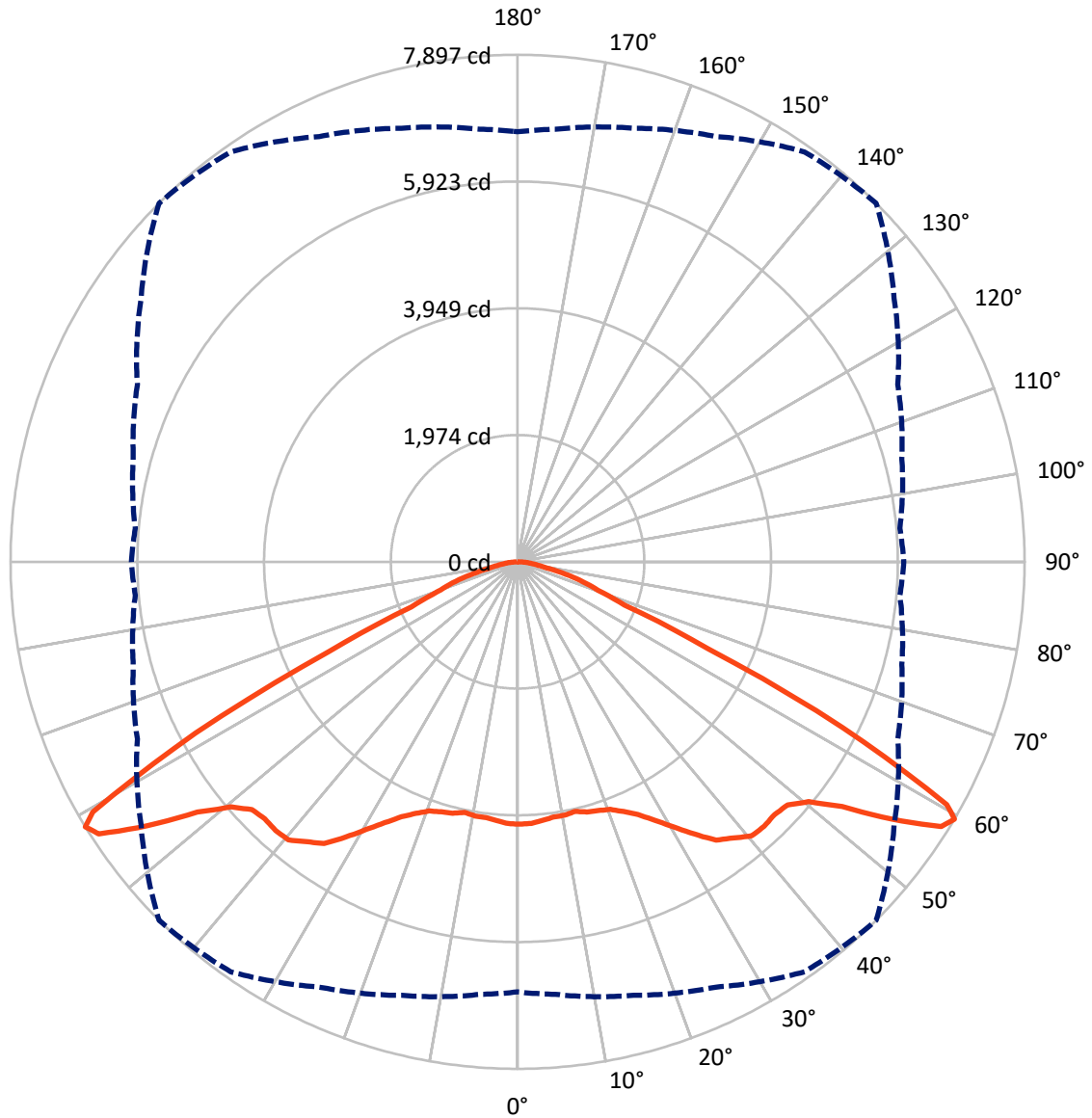
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 59-Deg Vertical

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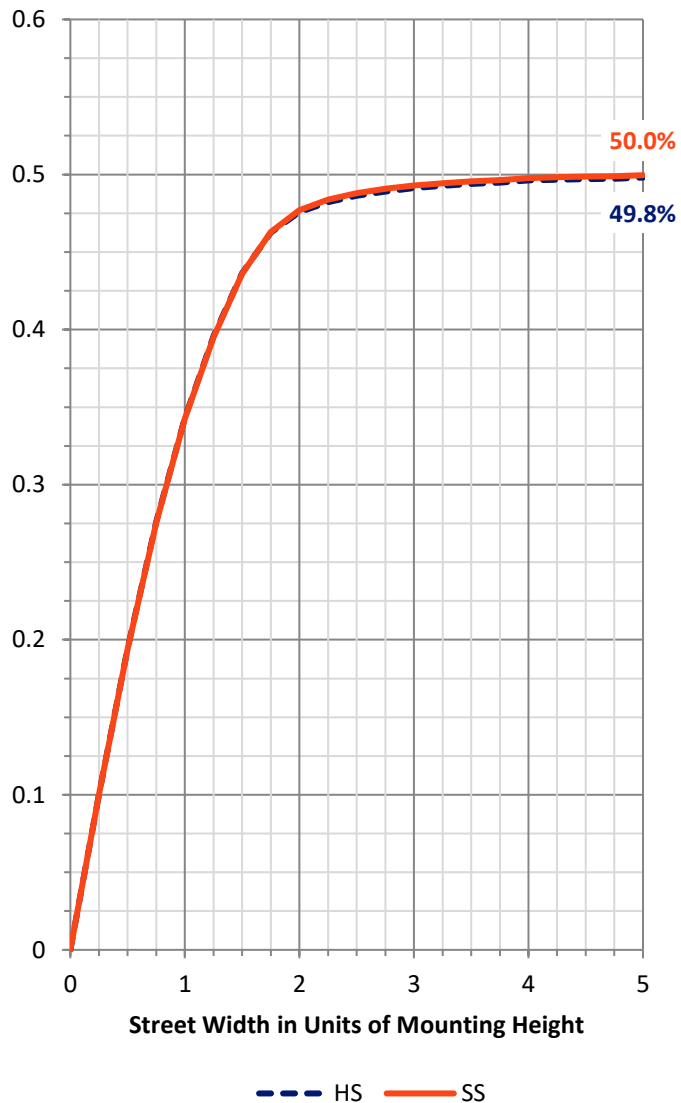
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10579.5	0.0	10579.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10579.5	0.0	10579.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21159.0	0.0	21159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.3	1.8
10°-20°	1145.7	5.4
20°-30°	2000.5	9.5
30°-40°	3195.1	15.1
40°-50°	4352.4	20.6
50°-60°	5885.6	27.8
60°-70°	3227.7	15.3
70°-80°	825.7	3.9
80°-90°	140.8	0.7
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°	21159.0	100.0
0°-180°	21159.0	100.0

**Coefficient of Utilization**



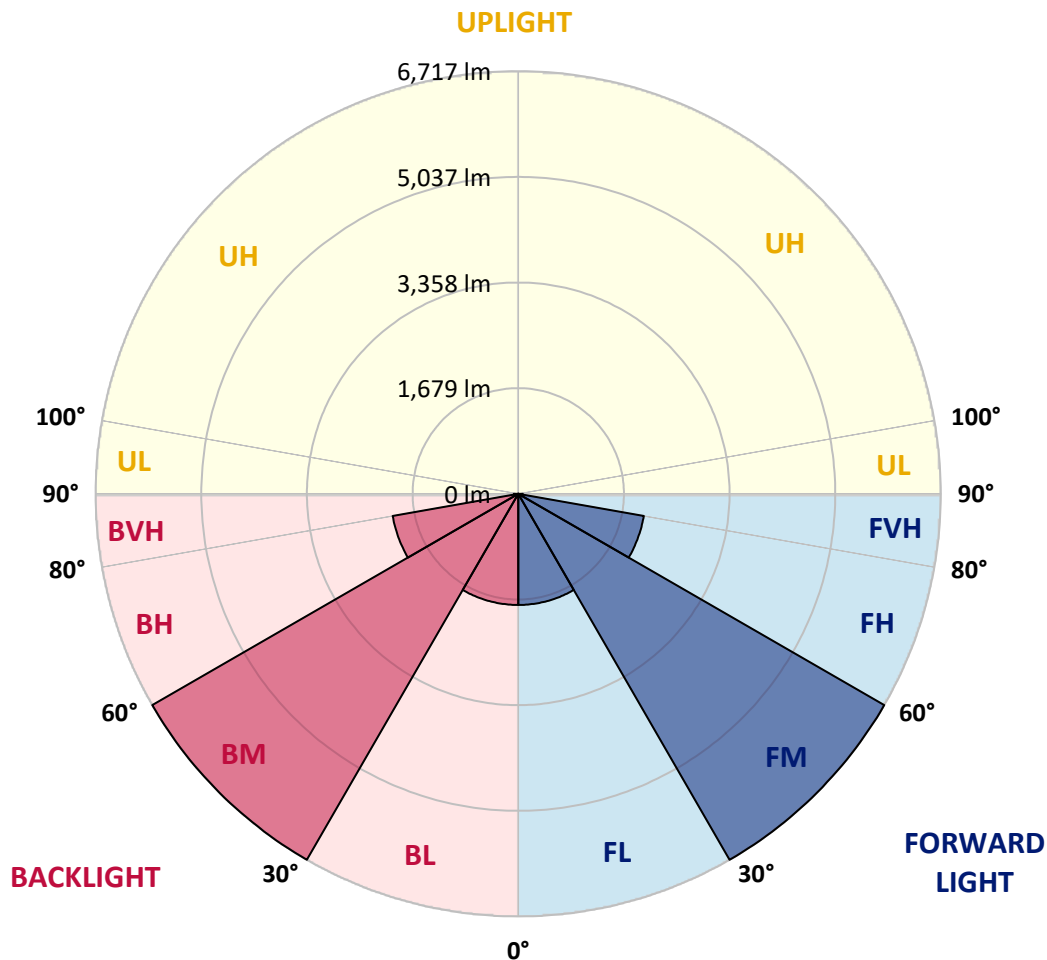
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.8	8.3			
FM (30°-60°)	6716.6	31.7			
FH (60°-80°)	2026.7	9.6			G2/5000
FVH (80°-90°)	70.4	0.3			G1/100
BL (0°-30°)	1765.8	8.3	B3/2500		
BM (30°-60°)	6716.6	31.7	B4/8500		
BH (60°-80°)	2026.7	9.6	B3/2500		G2/5000
BVH (80°-90°)	70.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9
2.5°	4062.5	4092.3	4070.7	4089.6	4086.9	4078.8	4065.2	4057.1	4046.2	4062.5	4035.3
5°	4046.2	4070.7	4095.0	4062.5	4062.5	4046.2	4038.1	4021.8	4021.8	4019.1	4016.4
7.5°	4073.3	4049.0	4038.1	4043.5	4049.0	4013.7	4038.1	4005.5	3978.4	3997.4	4019.1
10°	4049.0	4059.8	4019.1	4038.1	4008.3	4013.7	3997.4	4019.1	3989.3	3989.3	3989.3
12.5°	4073.3	4043.5	4057.1	4043.5	4035.3	3989.3	4011.0	3986.6	3983.8	4011.0	3986.6
15°	4122.2	4073.3	4062.5	4035.3	4043.5	4043.5	4021.8	4024.5	3994.7	4011.0	4016.4
17.5°	4105.9	4078.8	4070.7	4038.1	4065.2	4073.3	4032.7	4005.5	4024.5	4021.8	4019.1
20°	4119.4	4130.3	4122.2	4127.6	4138.5	4116.8	4078.8	4040.8	4016.4	4051.6	4049.0
22.5°	4206.2	4195.4	4190.0	4184.5	4203.5	4225.2	4173.7	4114.0	4114.0	4138.5	4149.3
25°	4276.7	4274.0	4271.3	4295.7	4360.8	4360.8	4295.7	4219.8	4200.8	4217.1	4203.5
27.5°	4379.8	4409.6	4398.8	4442.2	4537.1	4558.8	4472.0	4382.5	4331.0	4312.0	4336.4
30°	4615.7	4580.5	4588.6	4634.7	4718.8	4789.3	4656.4	4561.5	4491.0	4488.3	4499.1
32.5°	4773.0	4800.2	4824.5	4868.0	5000.9	5055.0	4895.1	4740.5	4697.1	4672.7	4680.9
35°	5087.6	5063.2	5057.8	5101.2	5234.0	5323.5	5122.9	4987.2	4930.3	4984.6	4984.6
37.5°	5385.9	5318.1	5266.6	5323.5	5445.6	5456.4	5285.6	5212.4	5182.5	5244.9	5242.2
40°	5527.0	5521.6	5402.2	5434.7	5597.4	5613.7	5453.8	5366.9	5361.5	5442.9	5524.2
42.5°	5673.4	5621.9	5502.5	5524.2	5624.6	5630.0	5478.1	5453.8	5513.4	5592.0	5597.4
45°	5697.8	5654.4	5578.5	5524.2	5597.4	5613.7	5524.2	5540.5	5545.9	5640.9	5640.9
47.5°	5746.6	5741.2	5697.8	5657.1	5670.7	5657.1	5600.2	5624.6	5706.0	5752.1	5730.4
50°	5882.2	5825.3	5868.7	5833.4	5836.1	5874.1	5822.5	5847.0	5830.7	5790.1	5762.9
52.5°	6180.5	6153.4	6191.4	6215.8	6242.9	6329.7	6270.0	6139.8	6017.8	5909.3	5906.6
55°	6617.1	6636.2	6709.4	6834.1	6939.9	7078.2	6790.7	6478.9	6283.6	6112.7	6123.6
57.5°	7029.4	7015.8	7116.1	7400.9	7710.0	7780.6	7216.5	6771.8	6454.4	6346.0	6299.9
59°	6698.5	6763.6	6991.4	7308.7	7794.1	7897.2	7159.5	6533.1	6196.8	5977.1	6015.1
60°	6177.8	6202.2	6405.6	6847.6	7504.0	7680.2	6777.2	6164.2	5716.8	5589.4	5646.3
62.5°	4366.2	4347.3	4493.7	4854.4	5442.9	5681.5	5038.8	4607.6	4325.5	4184.5	4217.1
65°	2321.4	2408.2	2467.9	2693.0	3004.8	3257.0	2991.3	2804.2	2646.9	2530.3	2527.5
67.5°	1567.5	1556.7	1570.2	1621.7	1727.5	1798.0	1792.6	1697.7	1684.2	1662.4	1686.8
70°	1320.7	1315.3	1290.9	1290.9	1312.6	1328.8	1347.9	1358.7	1380.4	1407.5	1404.8
72.5°	1071.2	1057.7	1041.4	1033.2	1060.3	1068.5	1092.9	1103.8	1122.7	1120.0	1144.4
75°	707.8	707.8	726.8	748.5	756.6	772.9	775.6	808.1	808.1	813.6	791.9
77.5°	396.0	385.1	398.6	420.3	439.3	469.2	499.0	523.4	537.0	531.6	531.6
80°	230.5	230.5	244.1	268.5	292.9	320.0	341.7	360.7	374.3	368.8	358.0
82.5°	143.8	143.8	157.3	181.7	200.7	217.0	246.8	271.2	287.4	282.0	268.5
85°	73.2	73.2	89.5	105.8	130.1	141.0	138.3	127.5	124.7	111.2	111.2
87.5°	18.9	18.9	27.1	29.8	24.4	27.1	27.1	27.1	27.1	27.1	29.8
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)