

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: P531818

Luminaire Tested: **GALN-SA7A-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20517 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

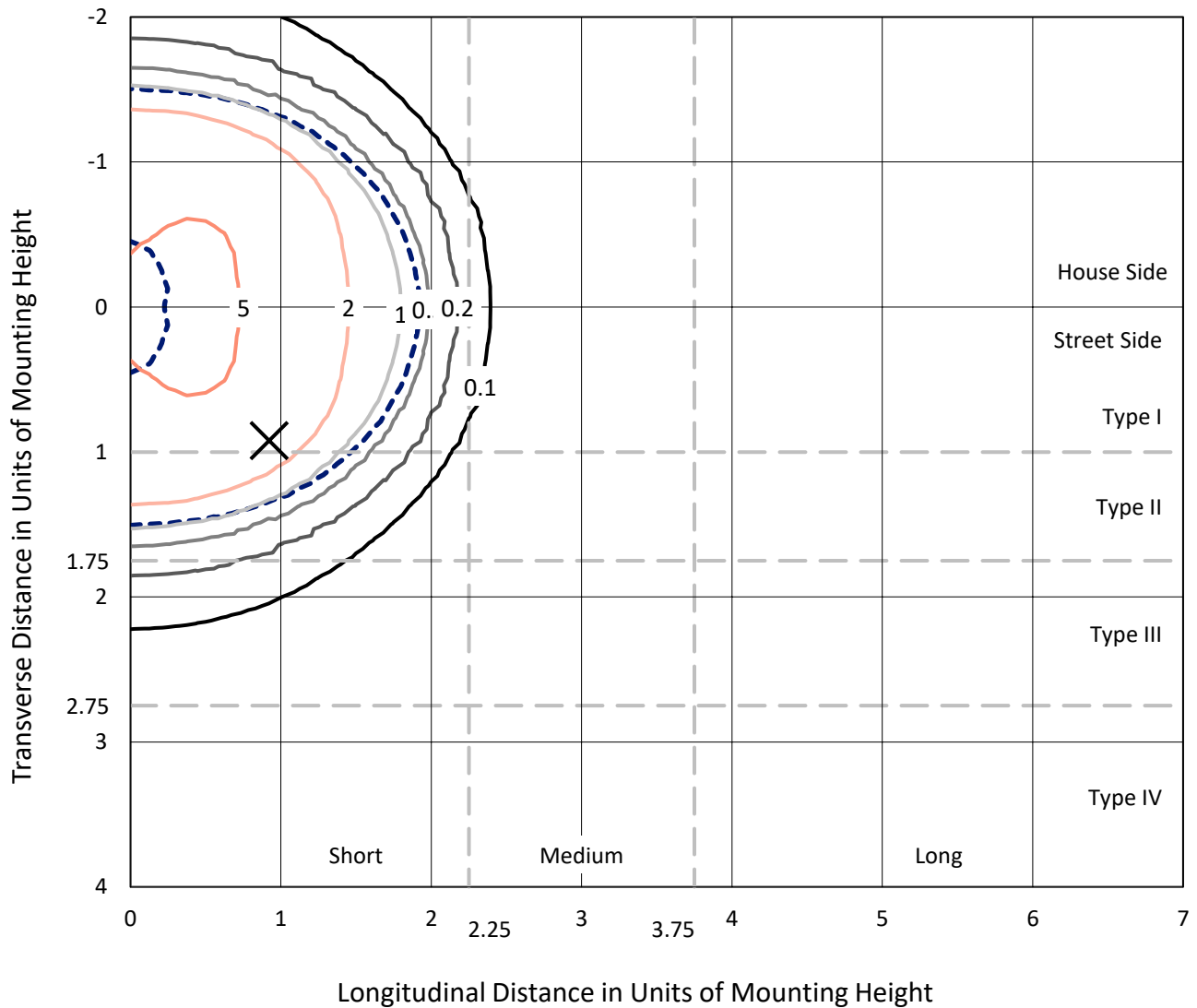
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

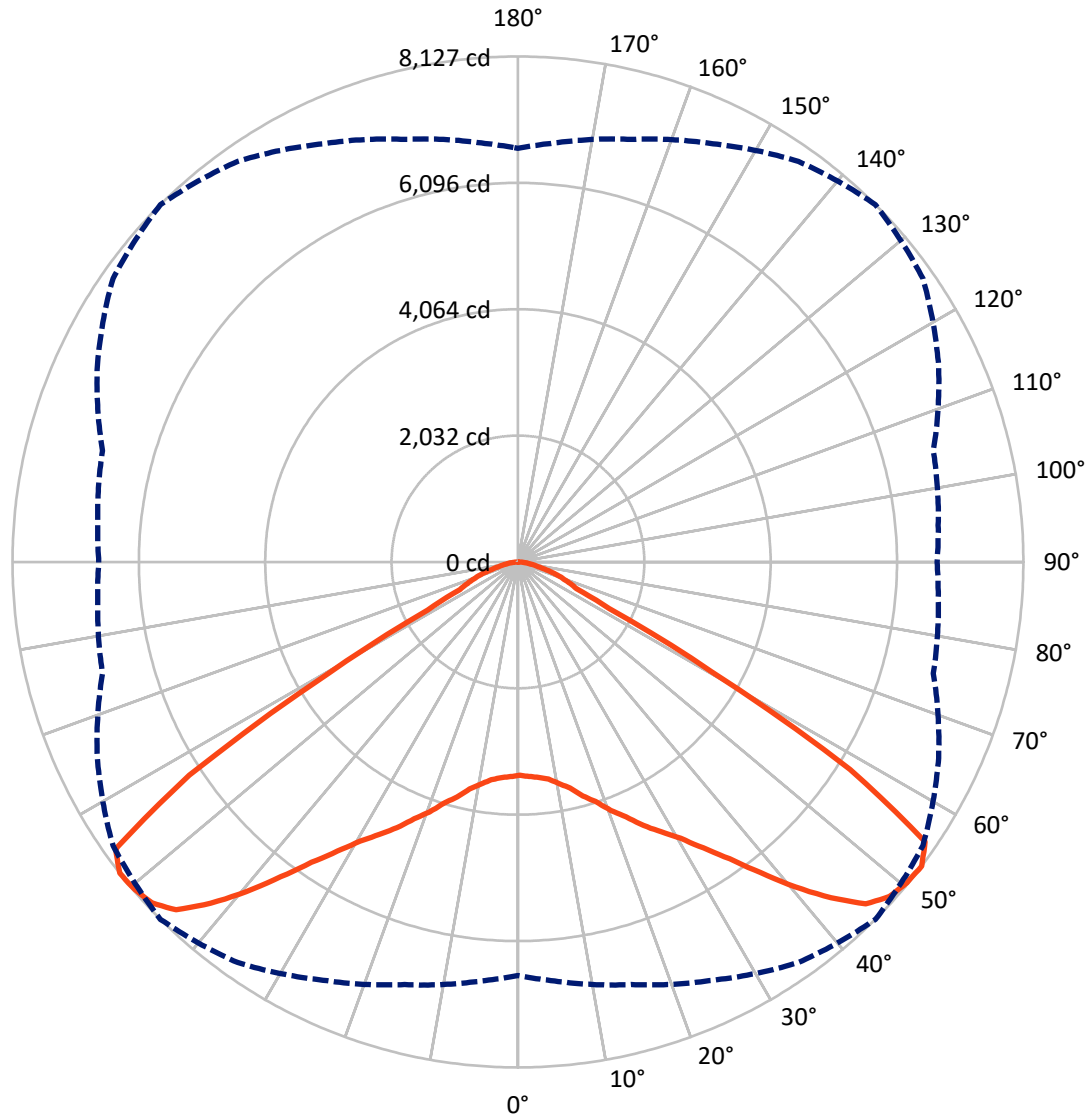
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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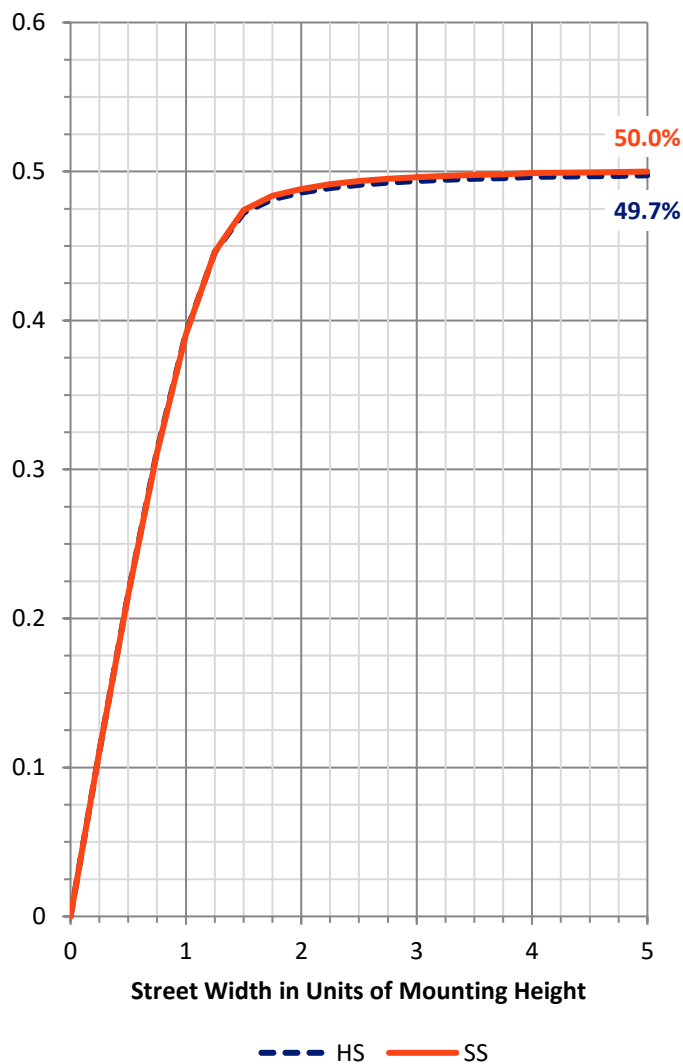
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10258.5	0.0	10258.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10258.5	0.0	10258.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20517.0	0.0	20517.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.0	1.6
10°-20°	1107.2	5.4
20°-30°	2108.0	10.3
30°-40°	3619.6	17.6
40°-50°	5563.4	27.1
50°-60°	5649.5	27.5
60°-70°	1574.4	7.7
70°-80°	464.4	2.3
80°-90°	93.6	0.5
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°	20517.0	100.0
0°-180°	20517.0	100.0

**Coefficient of Utilization**

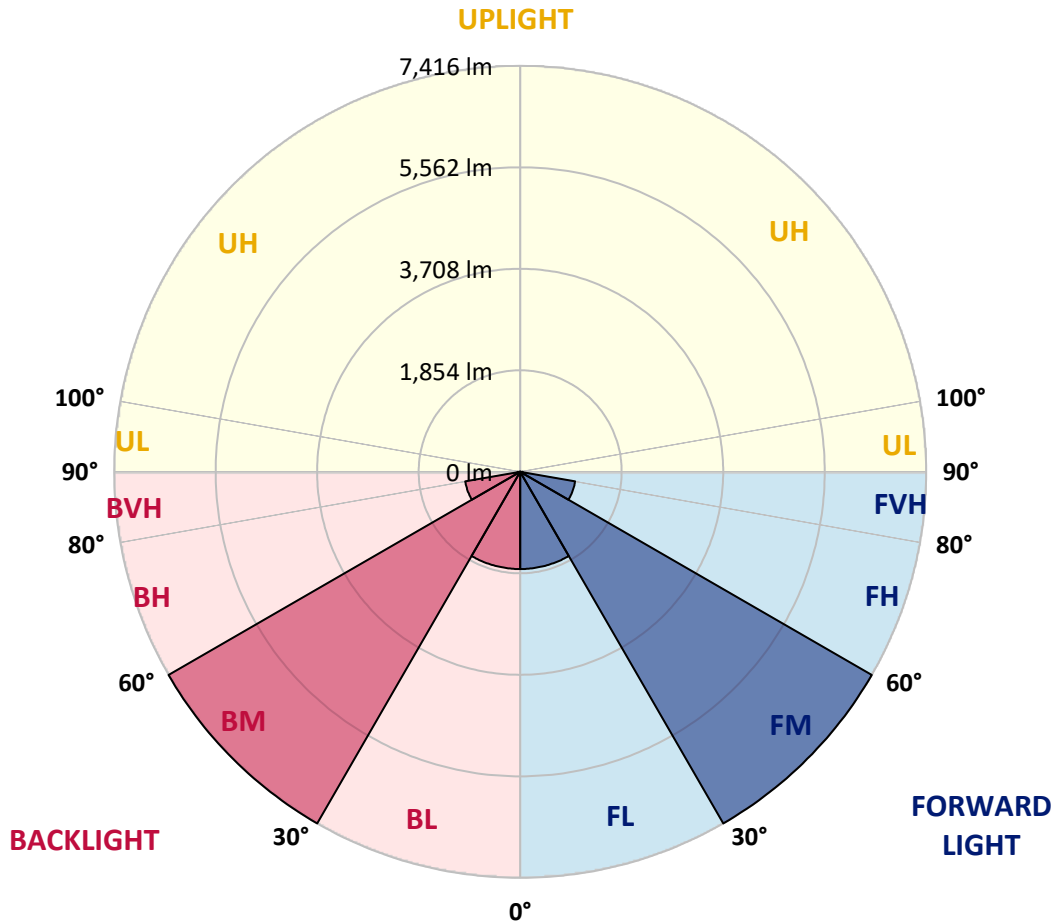


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.1	8.7			
FM (30°-60°)	7416.2	36.1			
FH (60°-80°)	1019.4	5.0			G1/1800
FVH (80°-90°)	46.8	0.2			G1/100
BL (0°-30°)	1776.1	8.7	B3/2500		
BM (30°-60°)	7416.2	36.1	B4/8500		
BH (60°-80°)	1019.4	5.0	B3/2500		G1/1800
BVH (80°-90°)	46.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7
2.5°	3437.3	3401.7	3414.4	3422.0	3455.1	3452.6	3445.0	3455.1	3465.3	3467.9	3462.8
5°	3434.8	3409.3	3419.5	3427.1	3460.2	3478.1	3473.0	3516.3	3546.8	3539.2	3577.4
7.5°	3414.4	3429.7	3417.0	3455.1	3483.2	3526.4	3572.3	3613.0	3651.2	3694.5	3702.1
10°	3460.2	3460.2	3483.2	3513.7	3587.5	3620.6	3686.8	3745.4	3819.3	3870.2	3849.8
12.5°	3508.6	3516.3	3516.3	3595.2	3656.3	3730.1	3791.2	3870.2	3974.6	4035.7	4066.2
15°	3557.0	3562.1	3587.5	3694.5	3786.2	3903.3	3959.3	4030.6	4089.1	4203.7	4206.3
17.5°	3600.3	3628.3	3704.7	3824.3	3938.9	4051.0	4140.1	4213.9	4264.8	4310.7	4300.5
20°	3763.2	3783.6	3862.5	3982.2	4152.8	4262.3	4292.8	4305.6	4338.7	4430.3	4402.3
22.5°	3921.1	3928.7	4002.6	4185.9	4305.6	4450.7	4483.8	4476.2	4488.9	4511.8	4552.5
25°	4084.1	4096.8	4198.6	4353.9	4522.0	4695.1	4723.1	4664.6	4646.8	4672.2	4674.8
27.5°	4292.8	4295.4	4425.2	4560.2	4751.1	4914.1	4957.4	4911.6	4827.5	4847.9	4881.0
30°	4557.6	4539.8	4669.7	4863.2	5064.3	5156.0	5229.8	5206.9	5115.2	5097.4	5069.4
32.5°	4863.2	4868.3	4985.4	5196.7	5329.1	5481.9	5560.8	5522.6	5464.1	5433.5	5451.3
35°	5293.5	5316.4	5395.3	5571.0	5784.9	5861.3	5986.0	5904.6	5751.8	5790.0	5823.1
37.5°	5647.4	5713.6	5861.3	6070.1	6197.4	6337.4	6383.2	6273.8	6161.7	6115.9	6225.4
40°	6189.7	6169.4	6332.3	6541.1	6729.5	6869.6	6811.0	6701.5	6424.0	6426.5	6457.1
42.5°	6655.7	6665.9	6790.6	7040.2	7297.3	7383.9	7198.0	6930.7	6622.6	6589.5	6655.7
45°	7047.8	7088.5	7159.8	7493.4	7745.4	7839.6	7495.9	7180.2	6767.7	6630.2	6739.7
47.5°	7187.8	7254.0	7409.3	7714.9	7964.4	8040.8	7765.8	7312.6	6902.7	6678.6	6737.2
50°	7208.2	7185.3	7439.9	7720.0	7938.9	8104.4	7862.6	7409.3	6869.6	6752.4	6734.6
52.5°	6650.6	6762.6	7035.1	7419.5	7862.6	8127.4	7949.1	7462.8	6915.4	6783.0	6739.7
55°	5382.6	5250.2	5746.7	6393.4	7208.2	7944.0	7918.6	7490.8	6943.4	6833.9	6775.4
57.5°	3004.5	3042.7	3322.7	4025.5	5077.1	6299.2	7040.2	7195.5	6930.7	6867.0	6897.6
60°	1390.2	1402.9	1522.6	1851.1	2502.9	3572.3	4547.5	5537.9	5993.7	6085.3	6085.3
62.5°	1036.3	1031.2	1061.8	1120.3	1257.8	1642.3	2192.2	2979.0	3605.4	4043.3	4157.9
65°	937.0	934.4	949.7	970.1	980.3	1033.7	1156.0	1397.8	1601.5	1718.7	1698.3
67.5°	819.9	817.3	822.4	835.1	853.0	881.0	911.5	962.5	1033.7	1028.7	1015.9
70°	662.0	662.0	669.6	679.8	700.2	733.3	768.9	804.6	865.7	878.4	875.9
72.5°	488.9	481.2	496.5	516.9	537.2	578.0	616.2	649.3	692.6	705.3	700.2
75°	310.6	315.7	325.9	348.8	384.5	412.5	453.2	481.2	509.2	519.4	522.0
77.5°	173.1	178.2	196.1	224.1	259.7	290.3	325.9	348.8	366.6	369.2	371.7
80°	104.4	106.9	124.8	150.2	180.8	213.9	241.9	264.8	280.1	272.4	269.9
82.5°	63.7	66.2	81.5	104.4	129.9	155.3	185.9	206.2	221.5	211.3	201.1
85°	33.1	35.6	48.4	63.7	84.0	96.8	96.8	86.6	84.0	78.9	76.4
87.5°	10.2	10.2	12.7	15.3	12.7	15.3	17.8	20.4	20.4	22.9	20.4
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)