

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: P456601

Luminaire Tested: **GALN-SA7D-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41456 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

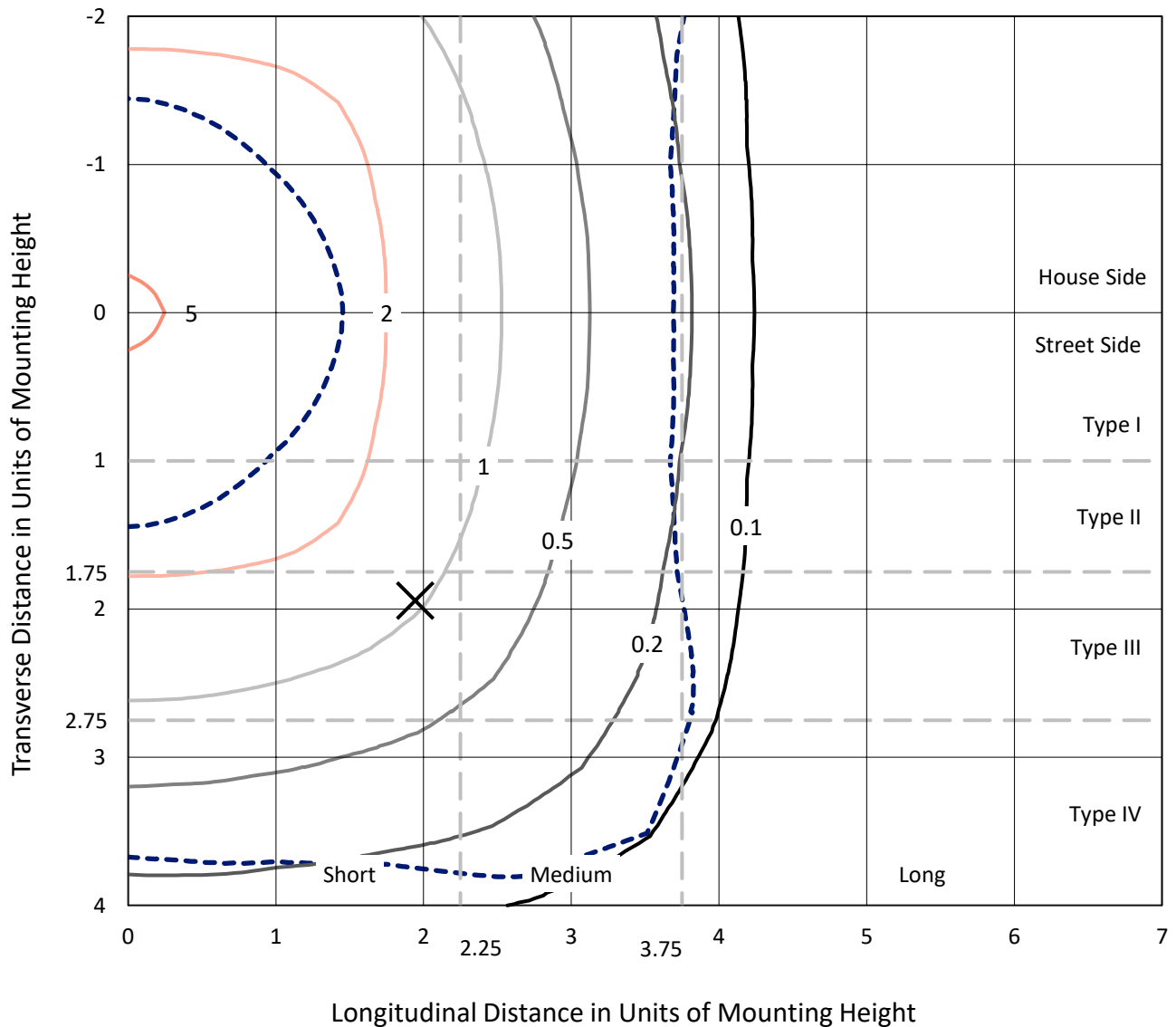
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

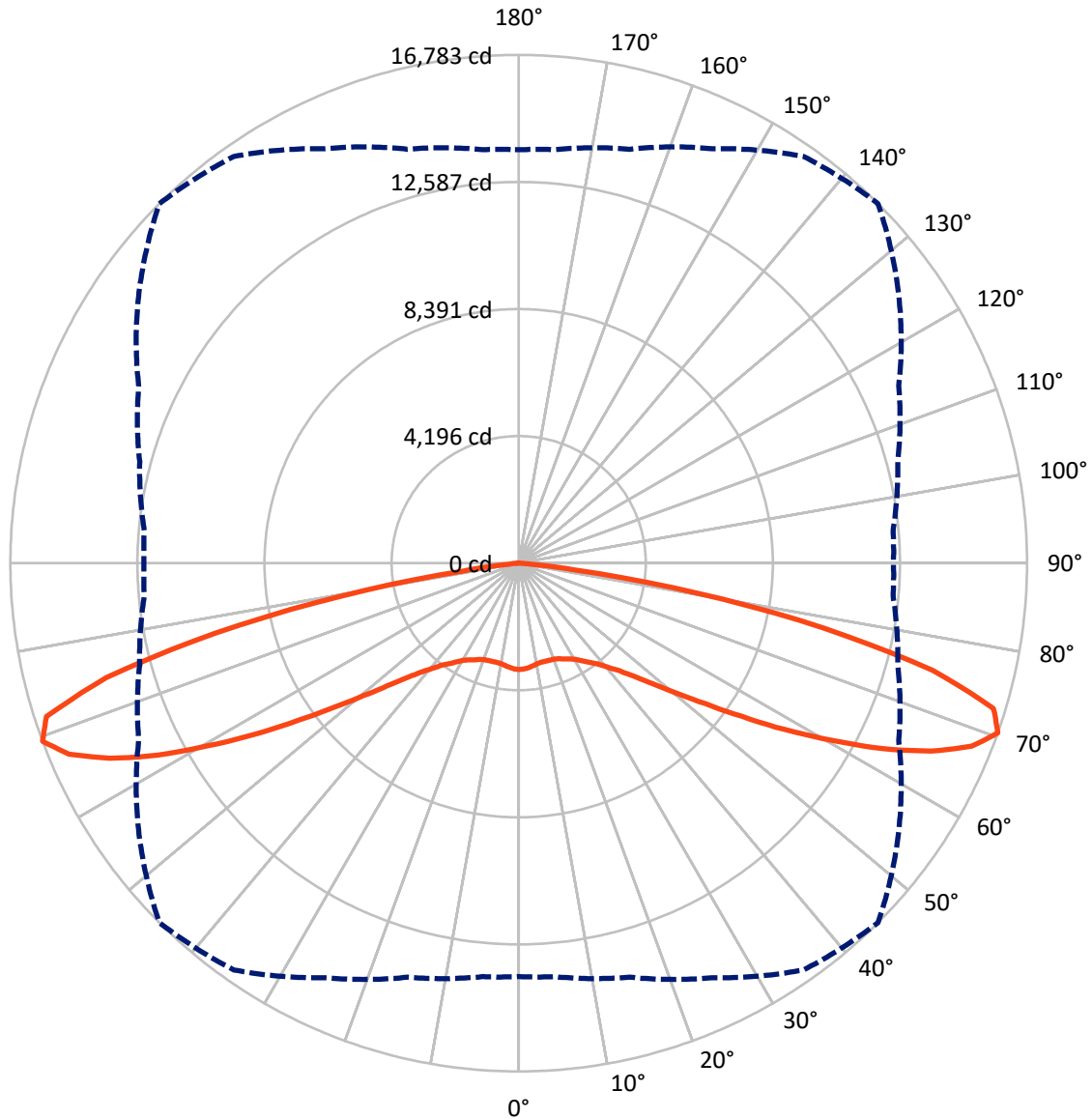
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	20728.0	0.0	20728.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20728.0	0.0	20728.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41456.0	0.0	41456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.2	0.8
10°-20°	960.9	2.3
20°-30°	1637.2	3.9
30°-40°	2537.6	6.1
40°-50°	4271.1	10.3
50°-60°	7771.1	18.7
60°-70°	13156.3	31.7
70°-80°	10183.5	24.6
80°-90°	610.2	1.5
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°	41456.0	100.0
0°-180°	41456.0	100.0

**Coefficient of Utilization**



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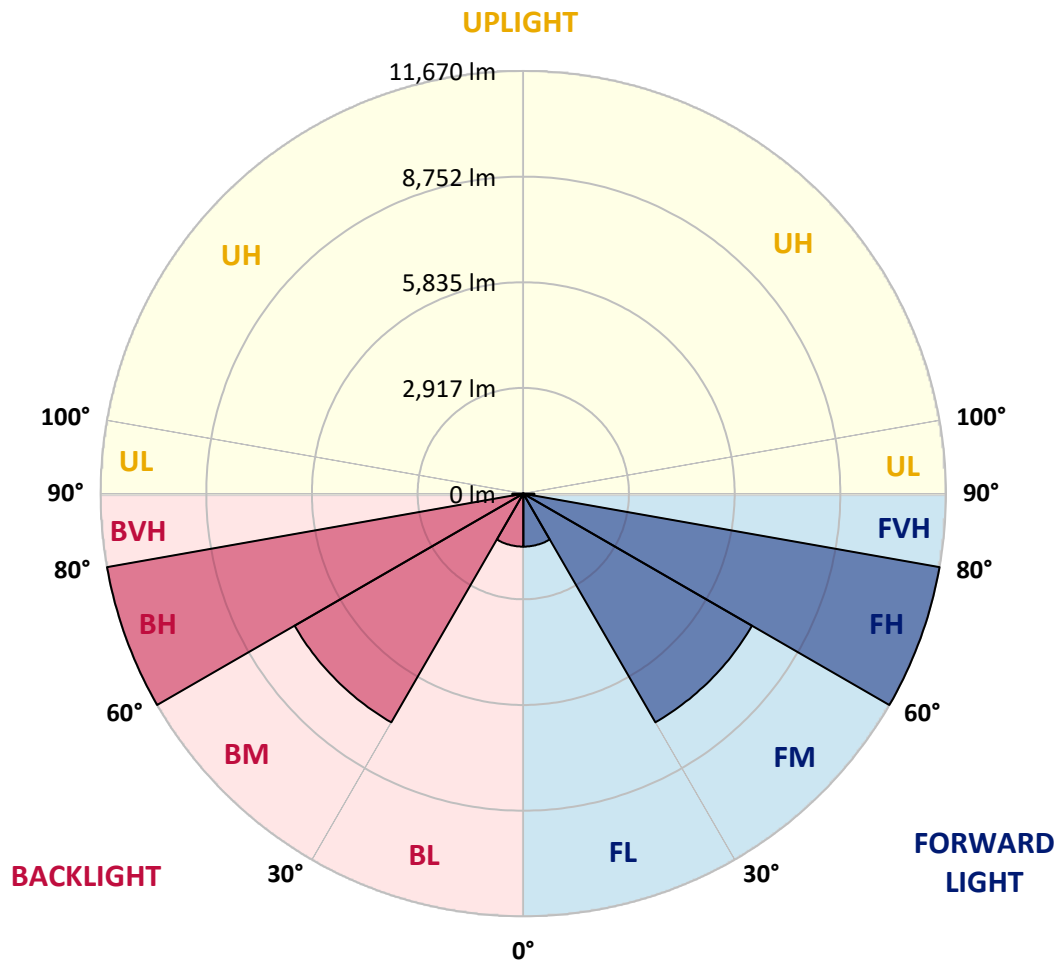
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.1	3.5			
FM (30°-60°)	7289.9	17.6			
FH (60°-80°)	11669.9	28.1			G4/12000
FVH (80°-90°)	305.1	0.7			G3/500
BL (0°-30°)	1463.1	3.5	B3/2500		
BM (30°-60°)	7289.9	17.6	B4/8500		
BH (60°-80°)	11669.9	28.1	B5		G4/12000
BVH (80°-90°)	305.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8
2.5°	3501.0	3503.2	3503.2	3498.8	3496.6	3496.6	3494.4	3494.4	3501.0	3503.2	3505.4
5°	3470.3	3470.3	3470.3	3468.2	3463.8	3463.8	3459.4	3459.4	3461.6	3468.2	3463.8
7.5°	3428.7	3433.1	3433.1	3424.4	3417.8	3417.8	3415.6	3417.8	3420.0	3426.6	3424.4
10°	3415.6	3417.8	3406.9	3391.5	3380.6	3374.0	3376.2	3380.6	3391.5	3395.9	3398.1
12.5°	3424.4	3424.4	3404.7	3382.8	3363.1	3354.3	3352.1	3367.4	3387.1	3400.3	3404.7
15°	3435.3	3430.9	3406.9	3378.4	3358.7	3356.5	3354.3	3365.3	3393.7	3420.0	3422.2
17.5°	3441.9	3439.7	3409.0	3374.0	3363.1	3363.1	3360.9	3369.6	3400.3	3433.1	3435.3
20°	3463.8	3457.2	3422.2	3385.0	3376.2	3380.6	3374.0	3385.0	3417.8	3457.2	3466.0
22.5°	3507.6	3501.0	3466.0	3428.7	3424.4	3424.4	3422.2	3433.1	3468.2	3509.8	3516.3
25°	3560.1	3553.5	3520.7	3494.4	3498.8	3507.6	3503.2	3505.4	3533.8	3568.9	3579.8
27.5°	3630.2	3619.2	3590.8	3568.9	3582.0	3582.0	3582.0	3579.8	3597.3	3630.2	3641.1
30°	3715.6	3711.2	3680.5	3678.3	3689.3	3678.3	3678.3	3680.5	3682.7	3713.4	3724.3
32.5°	3827.2	3818.5	3803.2	3798.8	3829.4	3838.2	3807.5	3779.1	3794.4	3825.0	3831.6
35°	4011.2	3998.0	3976.1	3952.0	3976.1	4017.7	3952.0	3930.1	3969.6	4011.2	4015.5
37.5°	4260.8	4254.2	4219.2	4175.4	4173.2	4217.0	4149.1	4146.9	4221.3	4271.7	4278.3
40°	4573.9	4580.4	4536.6	4495.0	4473.1	4508.2	4455.6	4475.3	4547.6	4604.5	4600.1
42.5°	5013.9	4989.9	4922.0	4882.6	4858.5	4845.3	4832.2	4862.9	4943.9	5005.2	5053.4
45°	5528.5	5519.7	5434.3	5386.2	5333.6	5313.9	5309.5	5364.3	5462.8	5537.2	5543.8
47.5°	6110.9	6091.2	6036.4	5986.1	5966.4	5942.3	5920.4	5962.0	6060.5	6113.1	6128.4
50°	6710.8	6715.2	6715.2	6706.4	6726.1	6730.5	6671.4	6686.7	6741.5	6737.1	6732.7
52.5°	7396.1	7420.2	7534.0	7545.0	7639.1	7702.6	7595.4	7531.9	7512.2	7393.9	7402.7
55°	8201.8	8223.7	8394.5	8565.3	8819.3	8926.6	8701.0	8504.0	8363.9	8184.3	8193.1
57.5°	9206.8	9217.8	9379.8	9708.2	10111.1	10362.9	9966.6	9576.8	9292.2	9121.4	9053.6
60°	10288.4	10299.4	10535.8	10936.5	11562.7	11869.2	11378.8	10741.7	10382.6	10122.0	10139.5
62.5°	11586.8	11630.6	11843.0	12394.7	13154.5	13498.2	12847.9	11996.2	11510.2	11186.1	11199.3
65°	12977.1	13051.6	13283.7	13890.1	14590.8	14960.8	14163.8	13180.8	12576.5	12180.2	12221.8
67.5°	13879.2	13944.9	14279.9	14949.9	15823.5	16130.0	15100.9	13955.8	13200.5	12727.5	12639.9
70°	13649.3	13704.0	14150.7	15100.9	16394.9	16782.5	15324.3	13842.0	12953.0	12407.9	12372.8
72.5°	12048.8	11934.9	12587.4	13951.5	15742.5	16392.7	14621.4	12642.1	11523.3	10962.8	10897.1
75°	7985.1	8232.5	9195.9	10803.0	13318.7	14124.4	12480.1	10150.5	8742.6	8276.3	8204.0
77.5°	2669.0	2859.5	3715.6	6124.0	9079.8	10290.6	9093.0	6638.5	4696.5	3783.4	3801.0
80°	707.2	698.4	904.3	1683.7	3923.6	5959.8	4567.3	2248.6	1230.5	891.1	845.1
82.5°	254.0	284.6	365.6	466.4	1040.0	1852.3	1307.1	630.6	462.0	341.6	330.6
85°	111.7	109.5	157.6	186.1	260.5	345.9	306.5	267.1	234.3	155.5	144.5
87.5°	24.1	24.1	37.2	28.5	46.0	46.0	56.9	67.9	70.1	46.0	37.2
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)