

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: P647041

Luminaire Tested: **GALN-SA7C-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647041  
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-SA7C-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40128.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

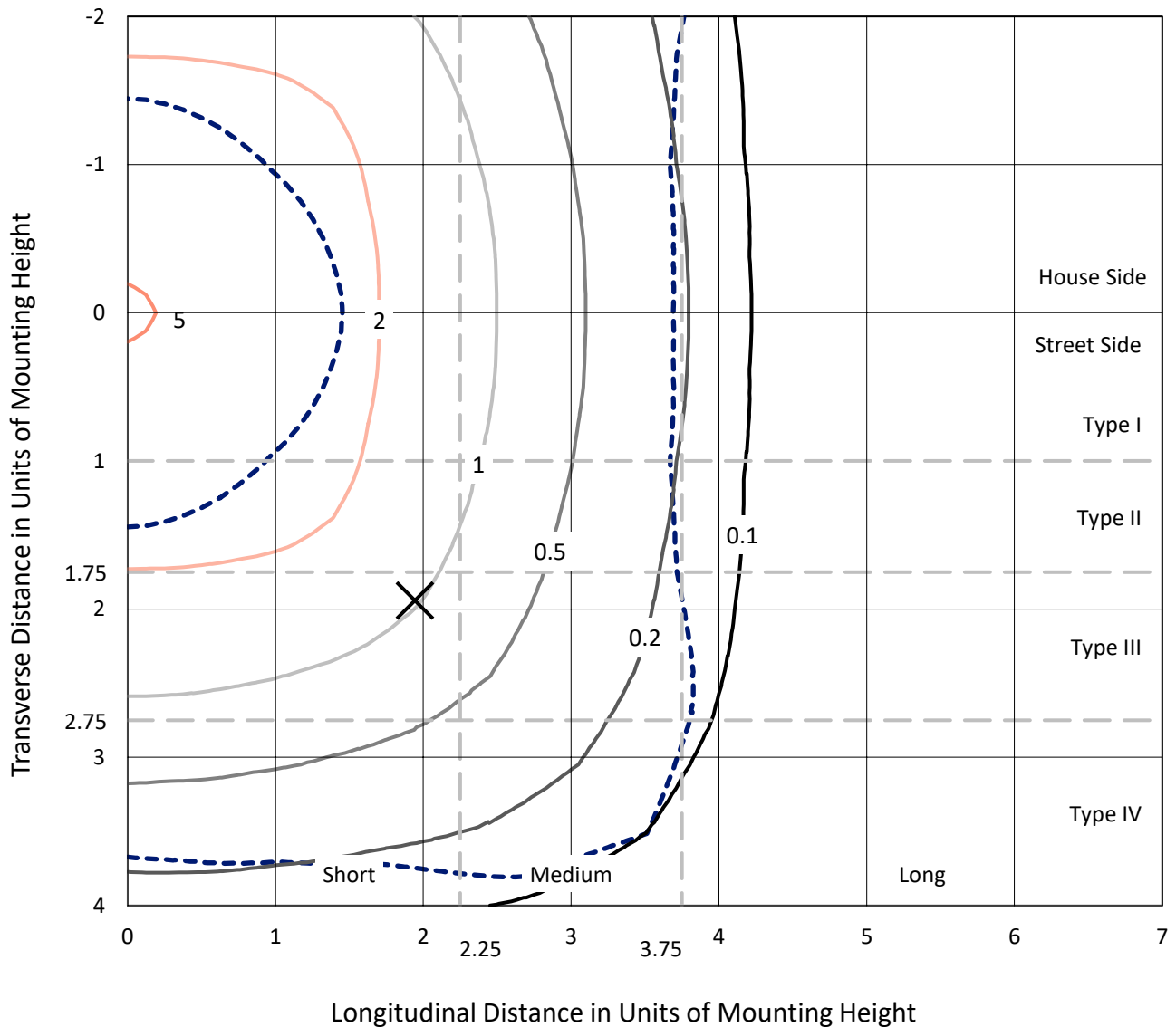
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

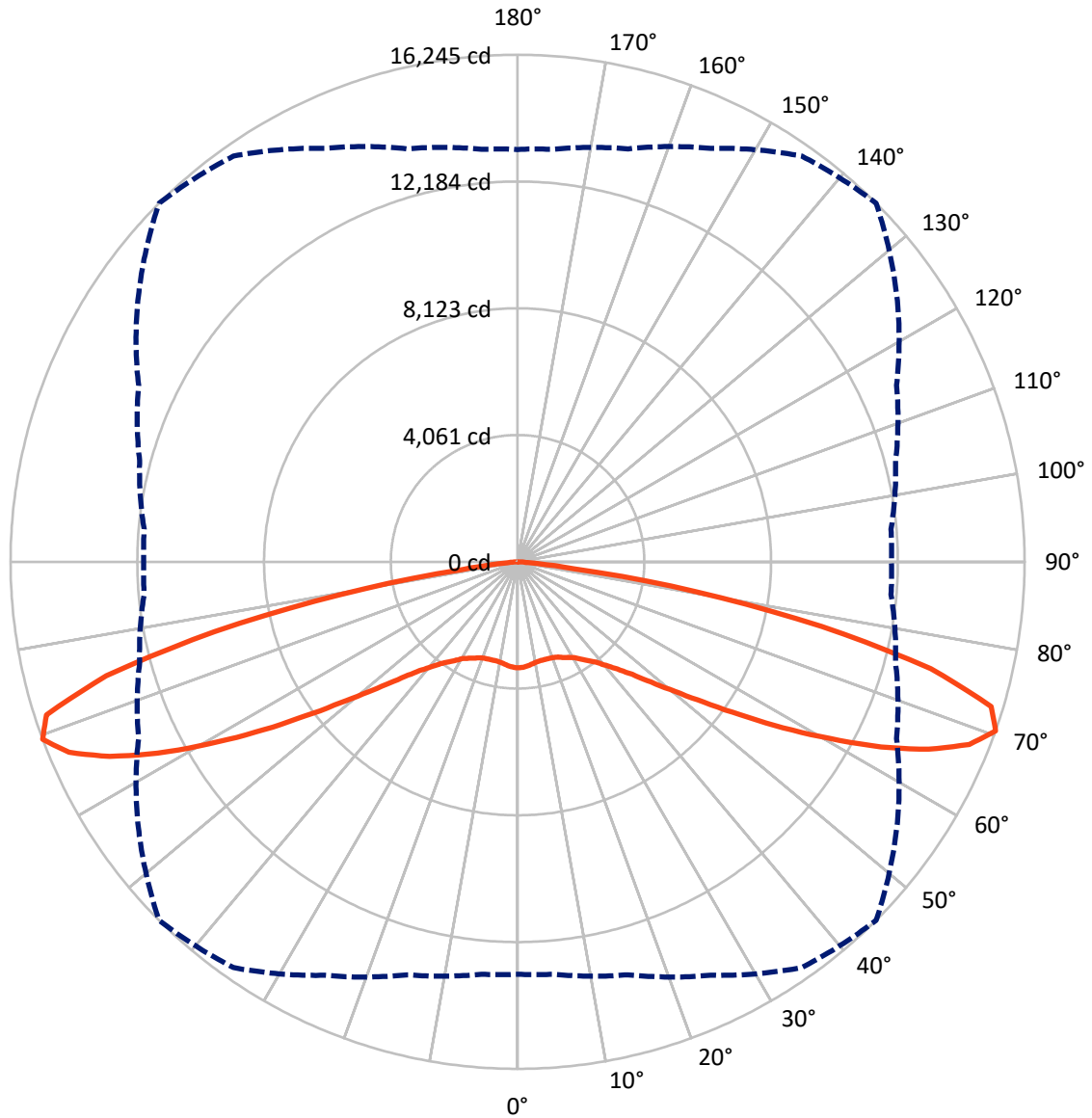
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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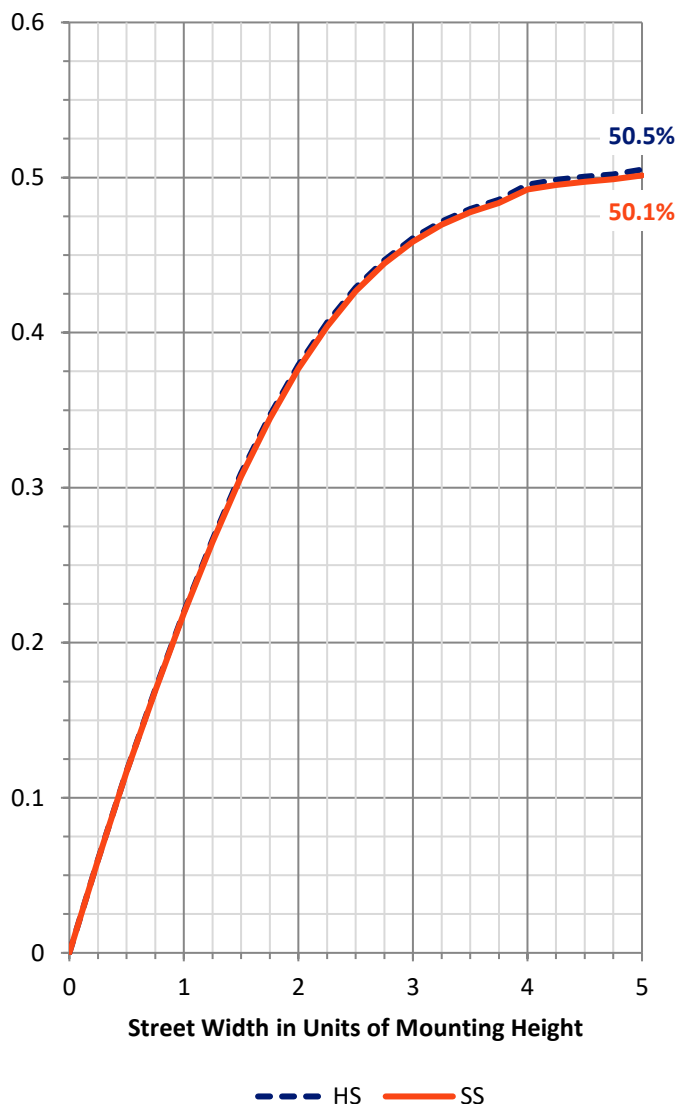
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20064.4	0.0	20064.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20064.4	0.0	20064.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40128.7	0.0	40128.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.7	0.8
10°-20°	930.1	2.3
20°-30°	1584.8	3.9
30°-40°	2456.3	6.1
40°-50°	4134.4	10.3
50°-60°	7522.3	18.7
60°-70°	12735.0	31.7
70°-80°	9857.4	24.6
80°-90°	590.7	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°	40128.7	100.0
0°-180°	40128.7	100.0

**Coefficient of Utilization**



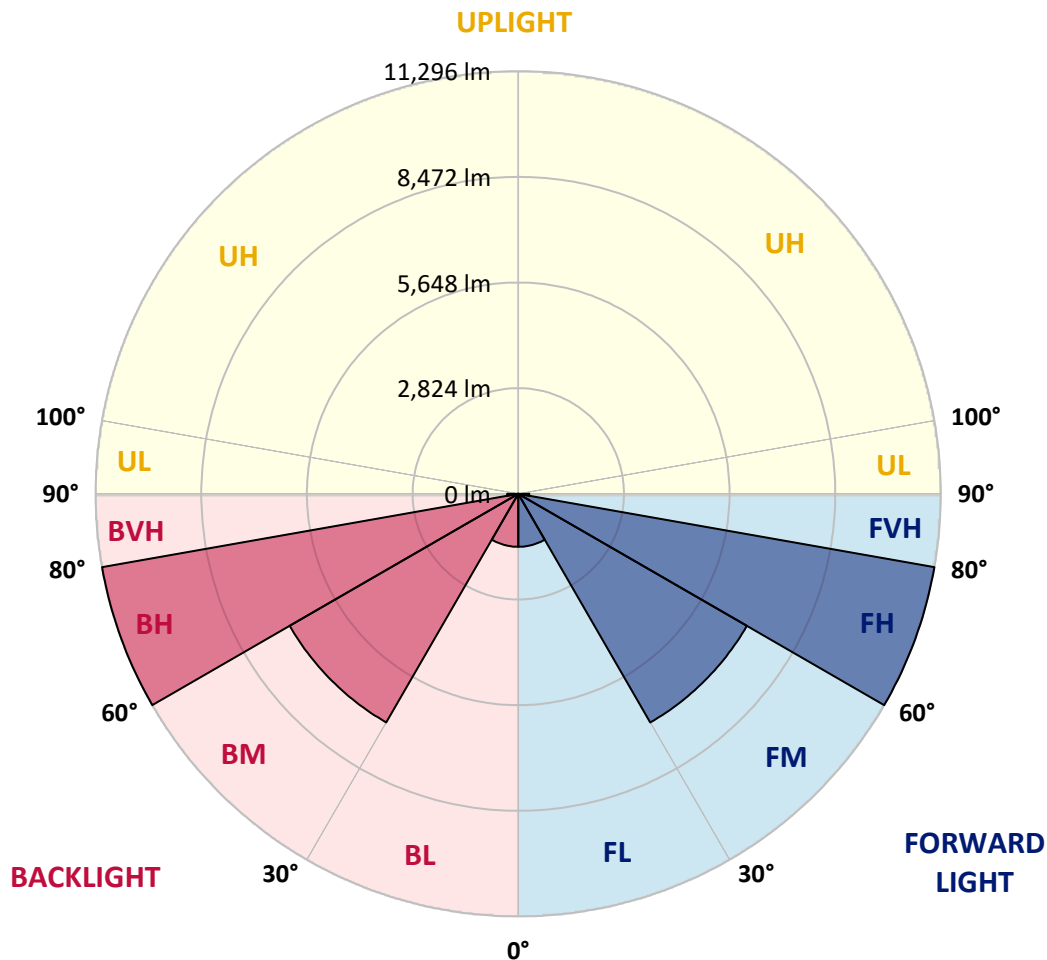
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.3	3.5			
FM (30°-60°)	7056.5	17.6			
FH (60°-80°)	11296.2	28.1			G4/12000
FVH (80°-90°)	295.3	0.7			G3/500
BL (0°-30°)	1416.3	3.5	B3/2500		
BM (30°-60°)	7056.5	17.6	B4/8500		
BH (60°-80°)	11296.2	28.1	B5		G4/12000
BVH (80°-90°)	295.3	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°	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4	3397.4
2.5°	3388.9	3391.0	3391.0	3386.8	3384.7	3384.7	3382.6	3382.6	3388.9	3391.0	3393.1
5°	3359.2	3359.2	3359.2	3357.1	3352.9	3352.9	3348.7	3348.7	3350.8	3357.1	3352.9
7.5°	3319.0	3323.2	3323.2	3314.8	3308.4	3308.4	3306.2	3308.4	3310.5	3316.9	3314.8
10°	3306.2	3308.4	3297.8	3283.0	3272.3	3266.0	3268.1	3272.3	3283.0	3287.2	3289.3
12.5°	3314.8	3314.8	3295.6	3274.4	3255.4	3246.9	3244.8	3259.6	3278.7	3291.4	3295.6
15°	3325.3	3321.1	3297.8	3270.2	3251.2	3249.1	3246.9	3257.5	3285.1	3310.5	3312.6
17.5°	3331.7	3329.6	3299.9	3266.0	3255.4	3255.4	3253.3	3261.7	3291.4	3323.2	3325.3
20°	3352.9	3346.5	3312.6	3276.6	3268.1	3272.3	3266.0	3276.6	3308.4	3346.5	3355.0
22.5°	3395.2	3388.9	3355.0	3319.0	3314.8	3314.8	3312.6	3323.2	3357.1	3397.4	3403.8
25°	3446.1	3439.8	3408.0	3382.6	3386.8	3395.2	3391.0	3393.1	3420.7	3454.6	3465.2
27.5°	3513.9	3503.4	3475.8	3454.6	3467.4	3467.4	3467.4	3465.2	3482.2	3513.9	3524.5
30°	3596.6	3592.4	3562.7	3560.6	3571.2	3560.6	3560.6	3562.7	3564.8	3594.5	3605.1
32.5°	3704.7	3696.2	3681.4	3677.1	3706.8	3715.3	3685.7	3658.1	3672.9	3702.6	3708.9
35°	3882.7	3870.0	3848.8	3825.5	3848.8	3889.1	3825.5	3804.3	3842.5	3882.7	3887.0
37.5°	4124.4	4118.0	4084.0	4041.7	4039.6	4081.9	4016.2	4014.1	4086.2	4134.9	4141.3
40°	4427.4	4433.7	4391.4	4351.1	4329.9	4363.8	4313.0	4332.0	4401.9	4457.1	4452.8
42.5°	4853.4	4830.1	4764.4	4726.3	4702.9	4690.2	4677.5	4707.2	4785.6	4845.0	4891.6
45°	5351.5	5343.0	5260.4	5213.7	5162.9	5143.8	5139.5	5192.5	5287.9	5359.9	5366.3
47.5°	5915.3	5896.1	5843.1	5794.4	5775.3	5752.1	5730.9	5771.1	5866.5	5917.4	5932.2
50°	6495.9	6500.2	6500.2	6491.7	6510.8	6515.0	6457.8	6472.7	6525.6	6521.4	6517.1
52.5°	7159.3	7182.6	7292.9	7303.4	7394.6	7456.0	7352.2	7290.7	7271.6	7157.2	7165.7
55°	7939.2	7960.4	8125.7	8291.1	8536.9	8640.8	8422.5	8231.8	8096.1	7922.3	7930.8
57.5°	8912.0	8922.7	9079.5	9397.4	9787.3	10031.1	9647.5	9270.3	8994.7	8829.4	8763.7
60°	9959.1	9969.6	10198.5	10586.4	11192.5	11489.3	11014.5	10397.8	10050.2	9798.0	9814.9
62.5°	11215.8	11258.2	11463.8	11997.9	12733.3	13066.1	12436.6	11612.2	11141.6	10828.0	10840.7
65°	12561.7	12633.7	12858.3	13445.4	14123.7	14481.8	13710.3	12758.8	12173.8	11790.2	11830.4
67.5°	13434.9	13498.5	13822.7	14471.2	15316.9	15613.6	14617.4	13509.0	12777.9	12320.0	12235.2
70°	13212.3	13265.3	13697.6	14617.4	15870.0	16245.1	14833.6	13398.9	12538.3	12010.6	11976.7
72.5°	11663.0	11552.9	12184.4	13504.8	15238.4	15867.9	14153.4	12237.4	11154.4	10611.8	10548.3
75°	7729.5	7968.9	8901.5	10457.1	12892.3	13672.2	12080.5	9825.6	8462.7	8011.3	7941.3
77.5°	2583.5	2767.9	3596.6	5927.9	8789.1	9961.2	8801.9	6426.0	4546.1	3662.3	3679.2
80°	684.6	676.1	875.3	1629.8	3797.9	5769.0	4421.1	2176.6	1191.1	862.6	818.1
82.5°	245.9	275.5	353.9	451.4	1006.7	1793.0	1265.2	610.3	447.2	330.7	320.0
85°	108.1	105.9	152.6	180.2	252.2	334.9	296.7	258.5	226.8	150.5	139.8
87.5°	23.3	23.3	36.0	27.6	44.5	44.5	55.1	65.7	67.8	44.5	36.0
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)