

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: P316301

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-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: 42496 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

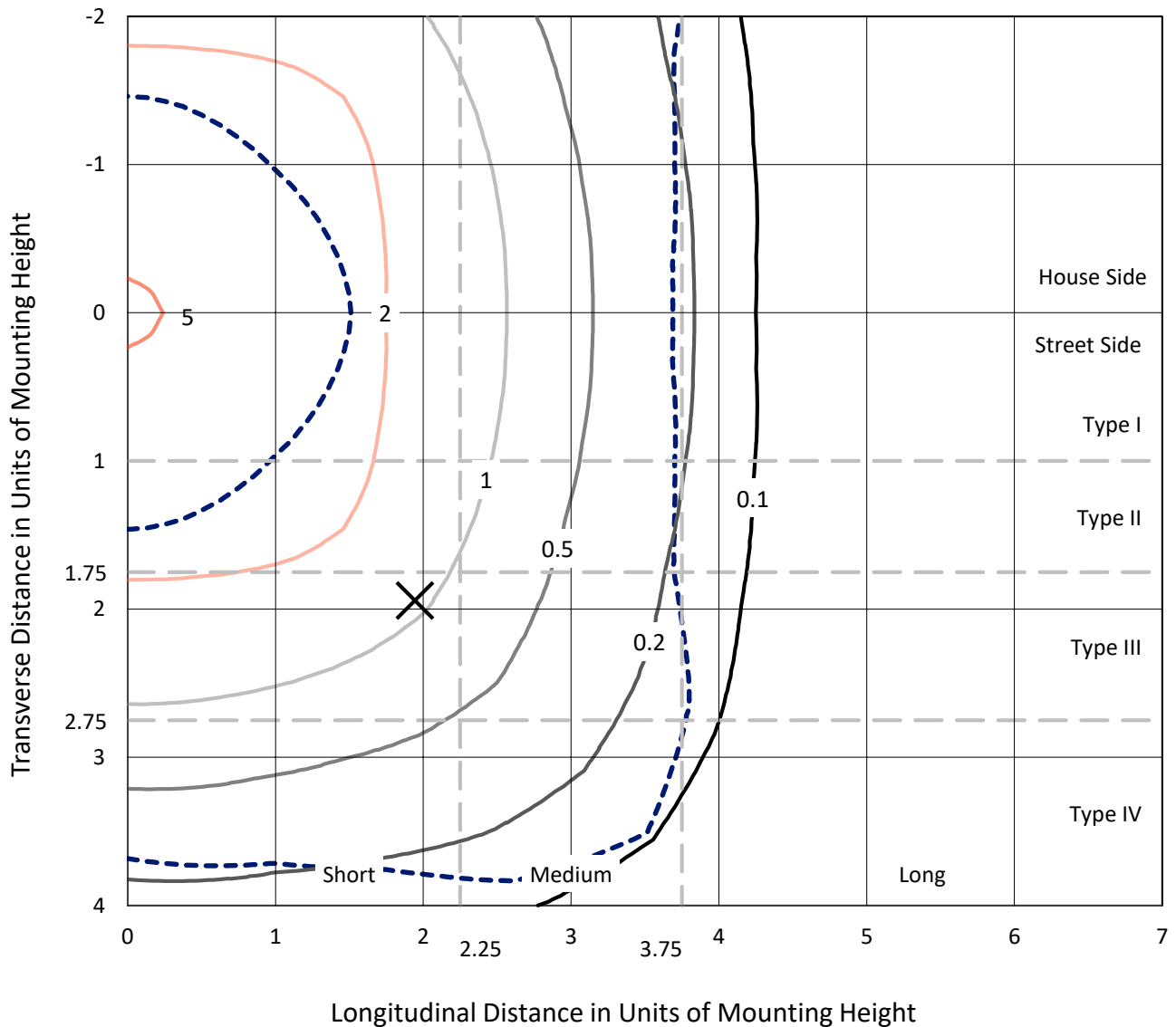
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

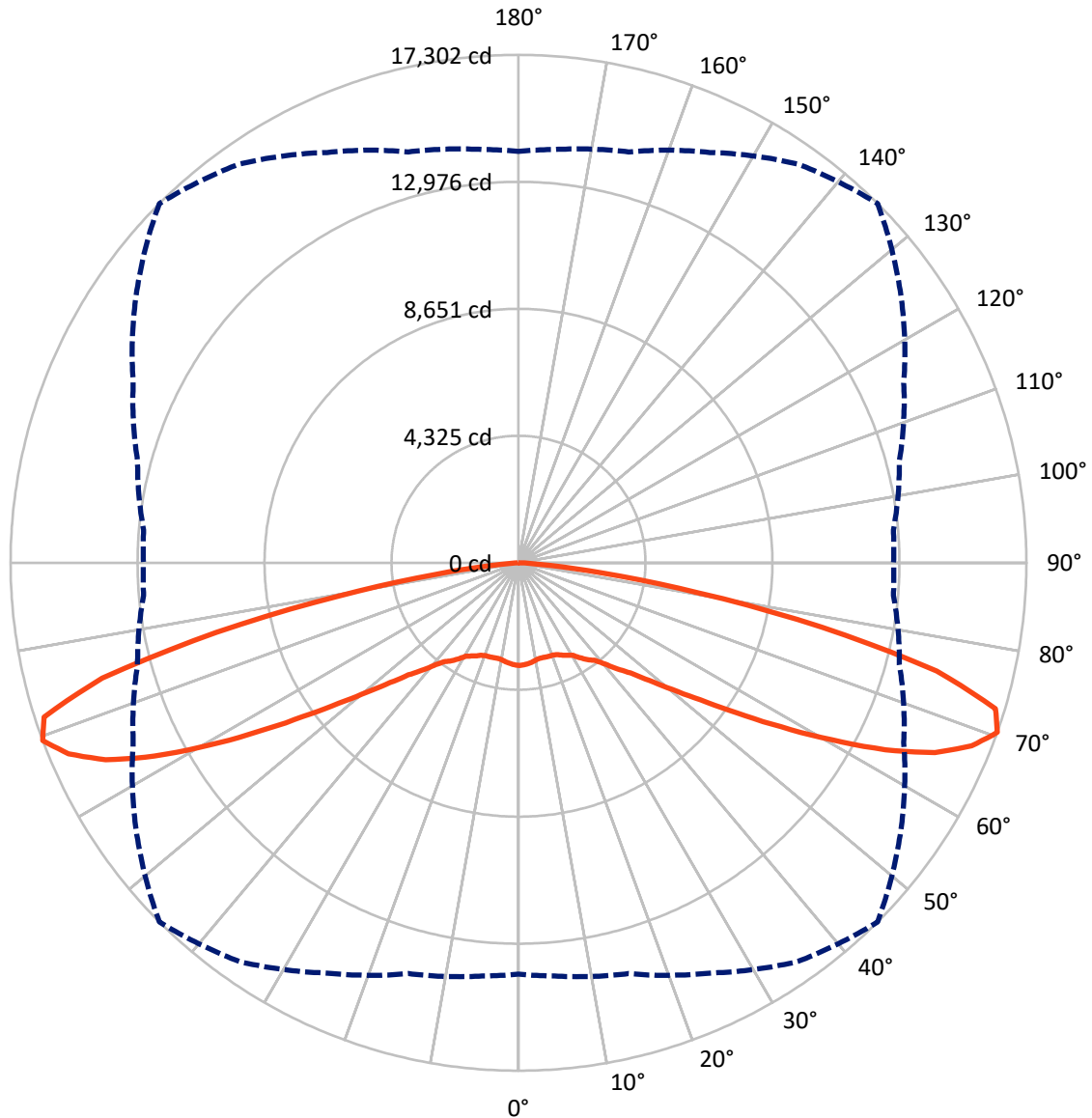
✕ Max cd  
 - - - 1/2 Max cd



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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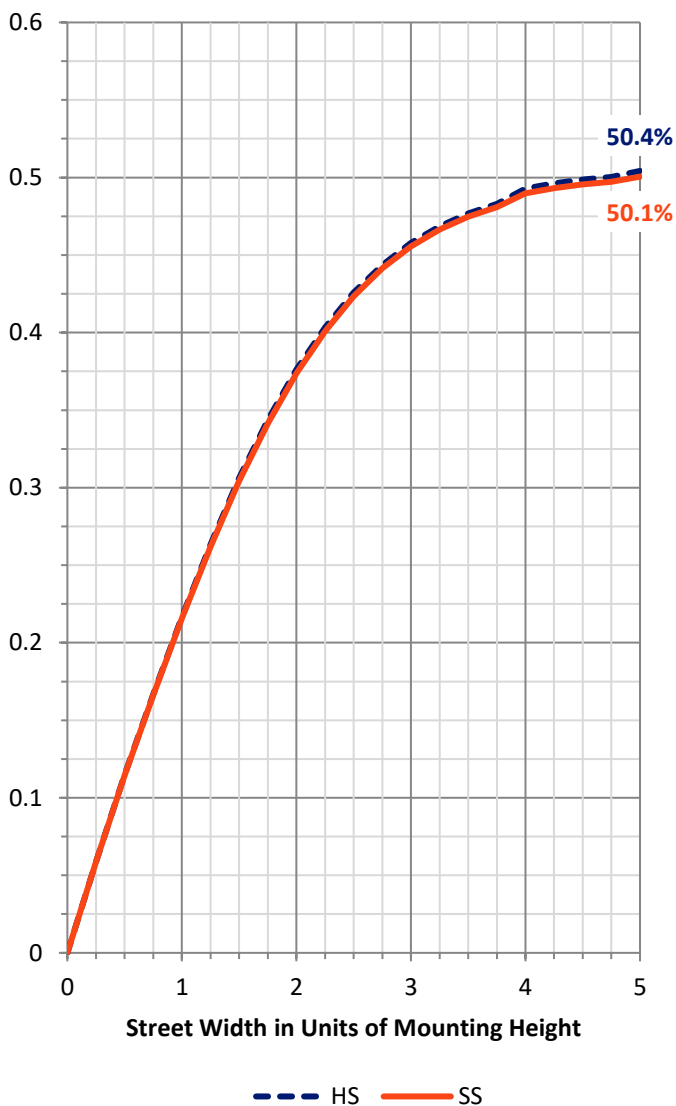
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21248.0	0.0	21248.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21248.0	0.0	21248.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42496.0	0.0	42496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.4	0.8
10°-20°	953.5	2.2
20°-30°	1625.7	3.8
30°-40°	2540.2	6.0
40°-50°	4305.0	10.1
50°-60°	7850.6	18.5
60°-70°	13515.3	31.8
70°-80°	10593.8	24.9
80°-90°	785.5	1.8
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°	42496.0	100.0
0°-180°	42496.0	100.0

**Coefficient of Utilization**

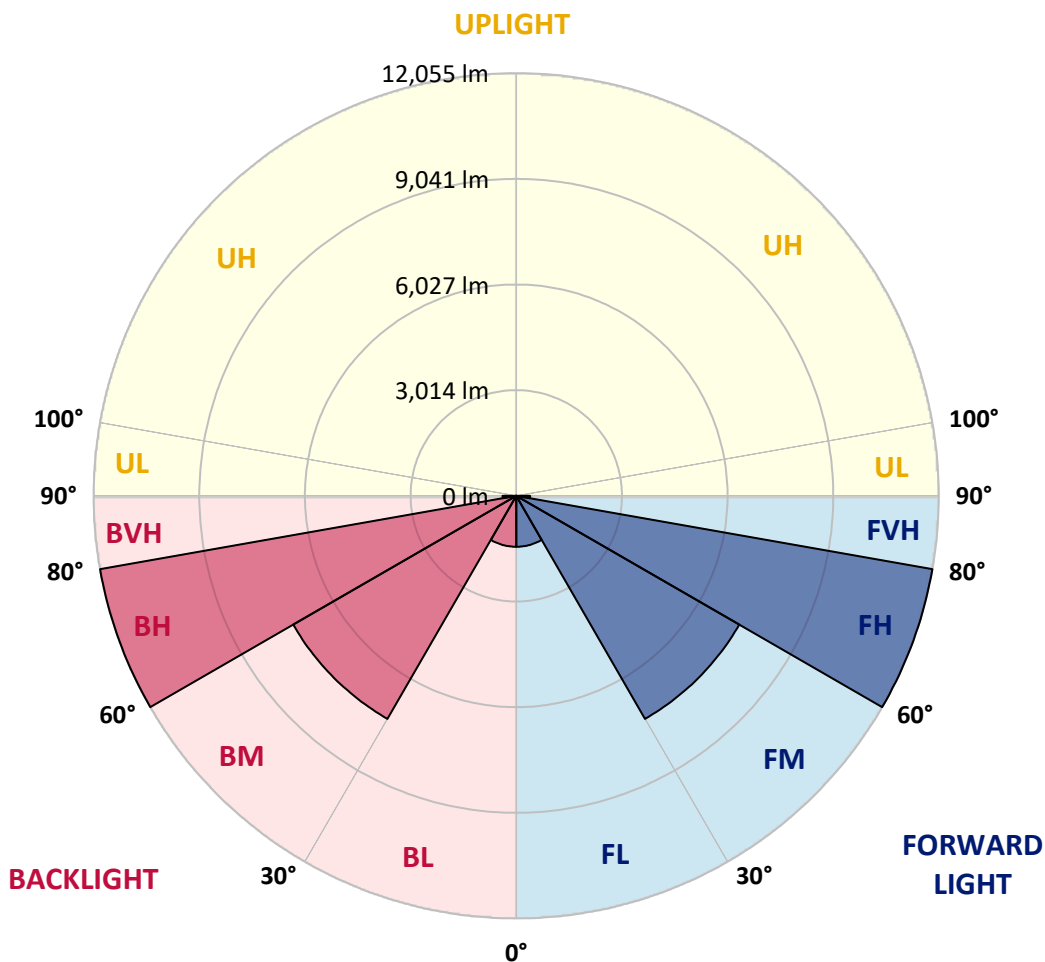


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.8	3.4			
FM (30°-60°)	7347.9	17.3			
FH (60°-80°)	12054.5	28.4			G5
FVH (80°-90°)	392.8	0.9			G3/500
BL (0°-30°)	1452.8	3.4	B3/2500		
BM (30°-60°)	7347.9	17.3	B4/8500		
BH (60°-80°)	12054.5	28.4	B5		G5
BVH (80°-90°)	392.8	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3497.4	3497.4	3497.4	3497.4	3497.4	3497.4	3497.4	3497.4	3497.4	3497.4	3497.4
2.5°	3482.0	3486.2	3482.0	3484.8	3477.7	3480.6	3480.6	3480.6	3479.2	3480.6	3477.7
5°	3451.0	3453.8	3448.2	3451.0	3446.8	3451.0	3452.4	3451.0	3448.2	3449.6	3444.0
7.5°	3404.6	3407.5	3403.2	3407.5	3401.8	3408.9	3407.5	3403.2	3399.0	3399.0	3393.4
10°	3379.3	3380.8	3369.5	3365.3	3352.6	3355.4	3359.7	3363.9	3368.1	3376.5	3375.1
12.5°	3380.8	3380.8	3363.9	3345.6	3327.3	3331.6	3338.6	3354.0	3370.9	3386.4	3387.8
15°	3394.8	3393.4	3368.1	3338.6	3325.9	3338.6	3342.8	3352.6	3379.3	3406.1	3407.5
17.5°	3404.6	3404.6	3365.3	3331.6	3330.1	3349.8	3348.4	3352.6	3382.2	3421.5	3422.9
20°	3422.9	3422.9	3372.3	3335.8	3335.8	3356.9	3358.3	3365.3	3394.8	3438.4	3445.4
22.5°	3463.7	3465.1	3411.7	3382.2	3385.0	3397.6	3401.8	3413.1	3439.8	3487.6	3496.0
25°	3521.3	3524.1	3469.3	3452.4	3462.3	3486.2	3483.4	3491.8	3521.3	3567.7	3576.1
27.5°	3601.4	3594.4	3543.8	3536.8	3546.6	3563.5	3562.1	3563.5	3587.4	3629.6	3639.4
30°	3705.5	3702.7	3666.1	3670.3	3666.1	3660.5	3661.9	3673.1	3685.8	3719.5	3729.4
32.5°	3806.7	3809.5	3787.0	3808.1	3839.0	3860.1	3827.8	3796.8	3782.8	3801.1	3809.5
35°	3989.4	3996.5	3961.3	3947.3	3989.4	4051.3	3959.9	3909.3	3937.4	3961.3	3968.3
37.5°	4300.1	4304.3	4245.3	4189.0	4158.1	4217.2	4125.8	4130.0	4228.4	4273.4	4272.0
40°	4654.3	4655.7	4616.4	4567.2	4513.8	4527.8	4491.3	4502.5	4567.2	4607.9	4619.2
42.5°	5076.0	5071.8	5010.0	4939.7	4924.2	4938.3	4876.4	4868.0	4942.5	5015.6	5017.0
45°	5622.9	5613.0	5532.9	5455.6	5381.1	5350.2	5334.7	5375.5	5478.1	5545.6	5547.0
47.5°	6211.9	6185.2	6143.0	6081.1	6016.5	5985.5	5960.2	5979.9	6054.4	6081.1	6083.9
50°	6817.7	6823.4	6831.8	6807.9	6784.0	6774.2	6708.1	6670.1	6692.6	6643.4	6636.4
52.5°	7536.1	7547.3	7628.8	7697.7	7738.5	7759.6	7634.5	7503.7	7430.6	7335.0	7306.9
55°	8383.7	8402.0	8521.5	8712.6	8909.4	9013.5	8787.1	8542.5	8316.2	8137.7	8080.1
57.5°	9328.3	9360.7	9525.1	9892.0	10295.5	10541.5	10159.1	9714.9	9277.7	9020.5	8975.5
60°	10436.1	10467.0	10694.7	11220.4	11874.1	12243.8	11664.6	10937.9	10393.9	10147.9	10064.9
62.5°	11754.6	11757.4	12037.2	12651.5	13514.6	14029.1	13244.7	12273.3	11712.4	11415.8	11335.7
65°	13173.0	13180.0	13469.6	14133.1	15025.7	15585.2	14699.6	13687.5	13001.5	12564.3	12502.5
67.5°	14175.3	14204.8	14509.8	15308.3	16143.3	16647.9	15731.4	14587.1	13794.3	13272.8	13220.8
70°	14015.0	14130.3	14488.7	15420.7	16581.9	17301.6	15898.7	14480.3	13434.4	12818.7	12775.2
72.5°	12222.7	12443.4	12921.4	14144.3	16001.3	16992.3	14986.4	12969.2	11785.5	11261.2	11182.5
75°	8323.3	8681.7	9402.8	11167.0	13670.6	14712.2	12616.3	10340.5	9227.1	8501.8	8448.4
77.5°	3711.1	3792.6	4706.3	6737.6	9433.8	10565.4	9166.7	6764.3	5077.5	4049.9	3833.4
80°	1034.6	1047.3	1397.3	2509.2	4721.8	6207.7	5069.0	2635.7	1481.6	1044.4	984.0
82.5°	328.9	357.1	435.8	650.8	1587.1	2832.5	1629.2	702.9	500.4	399.2	359.9
85°	160.3	158.8	220.7	264.3	404.8	627.0	431.6	326.1	285.4	189.8	171.5
87.5°	67.5	68.9	102.6	92.8	118.1	101.2	139.2	146.2	153.2	84.3	73.1
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)