

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: P316292

Luminaire Tested: **GLEON-SA8C-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316292  
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-SA8C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 43892 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

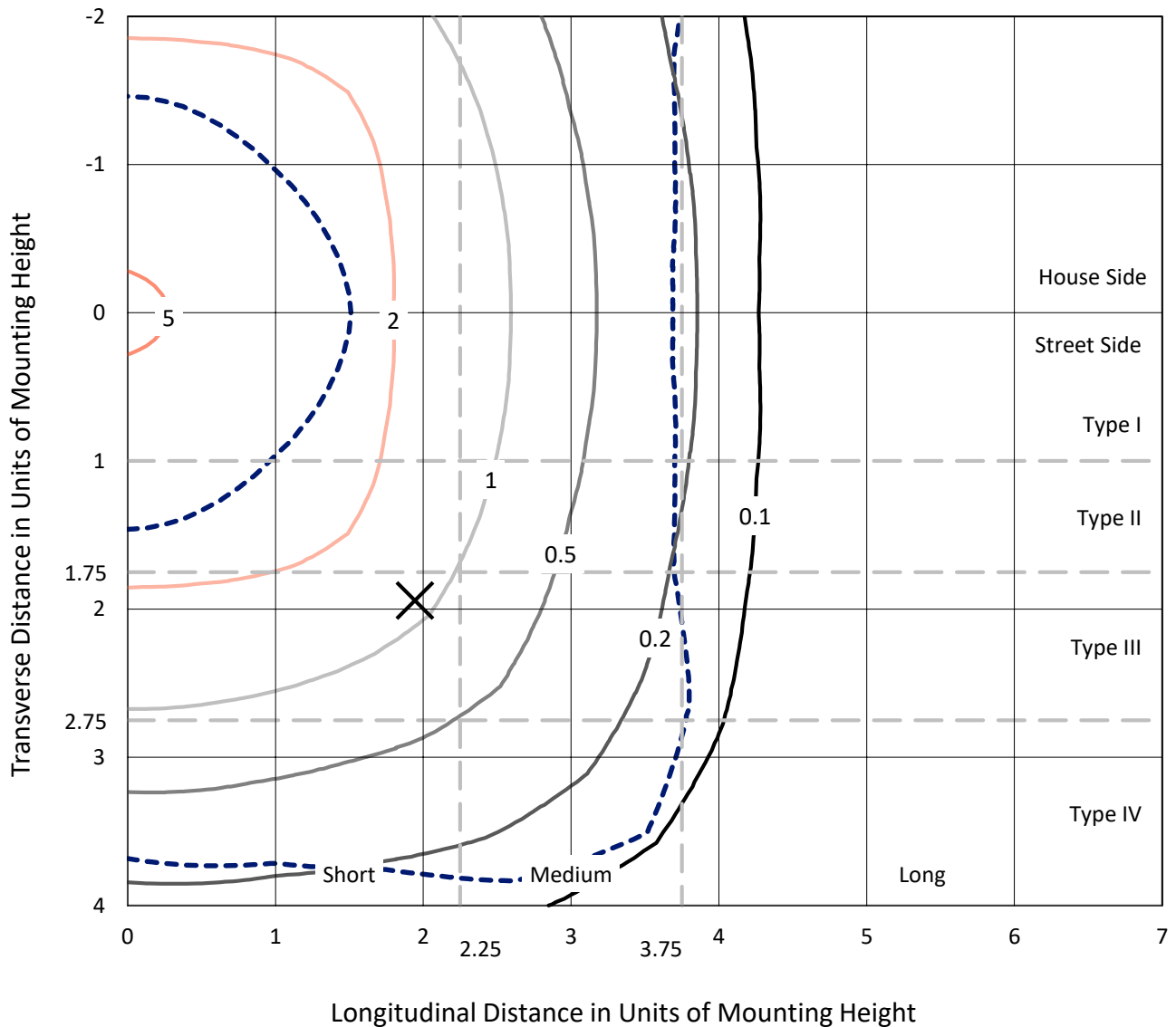
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

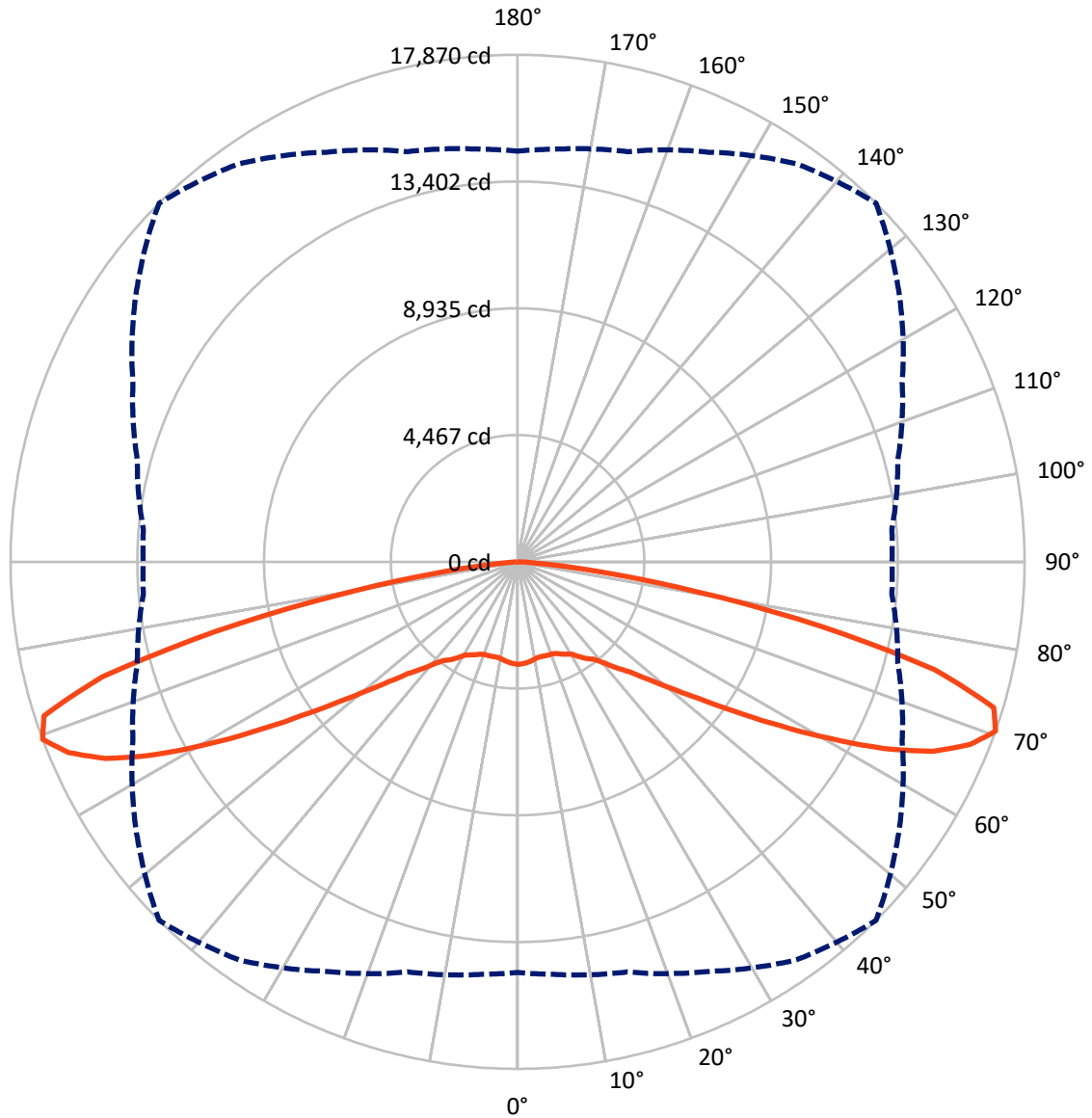
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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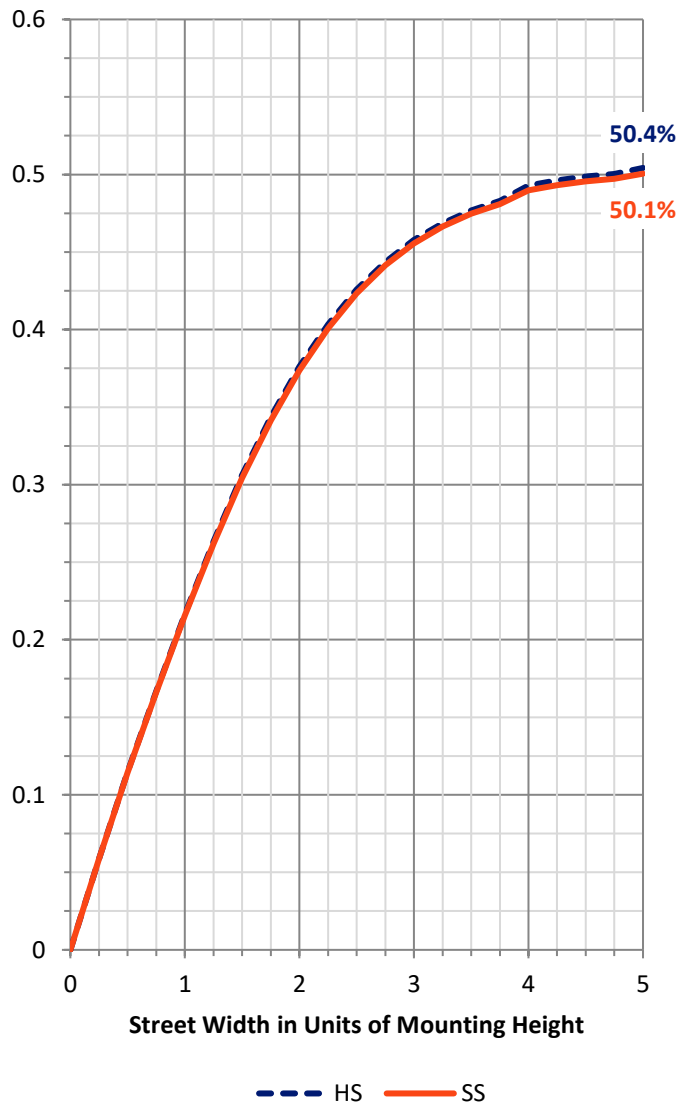
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21946.0	0.0	21946.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21946.0	0.0	21946.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43892.0	0.0	43892.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.2	0.8
10°-20°	984.8	2.2
20°-30°	1679.1	3.8
30°-40°	2623.6	6.0
40°-50°	4446.5	10.1
50°-60°	8108.5	18.5
60°-70°	13959.3	31.8
70°-80°	10941.8	24.9
80°-90°	811.3	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°	43892.0	100.0
0°-180°	43892.0	100.0

**Coefficient of Utilization**

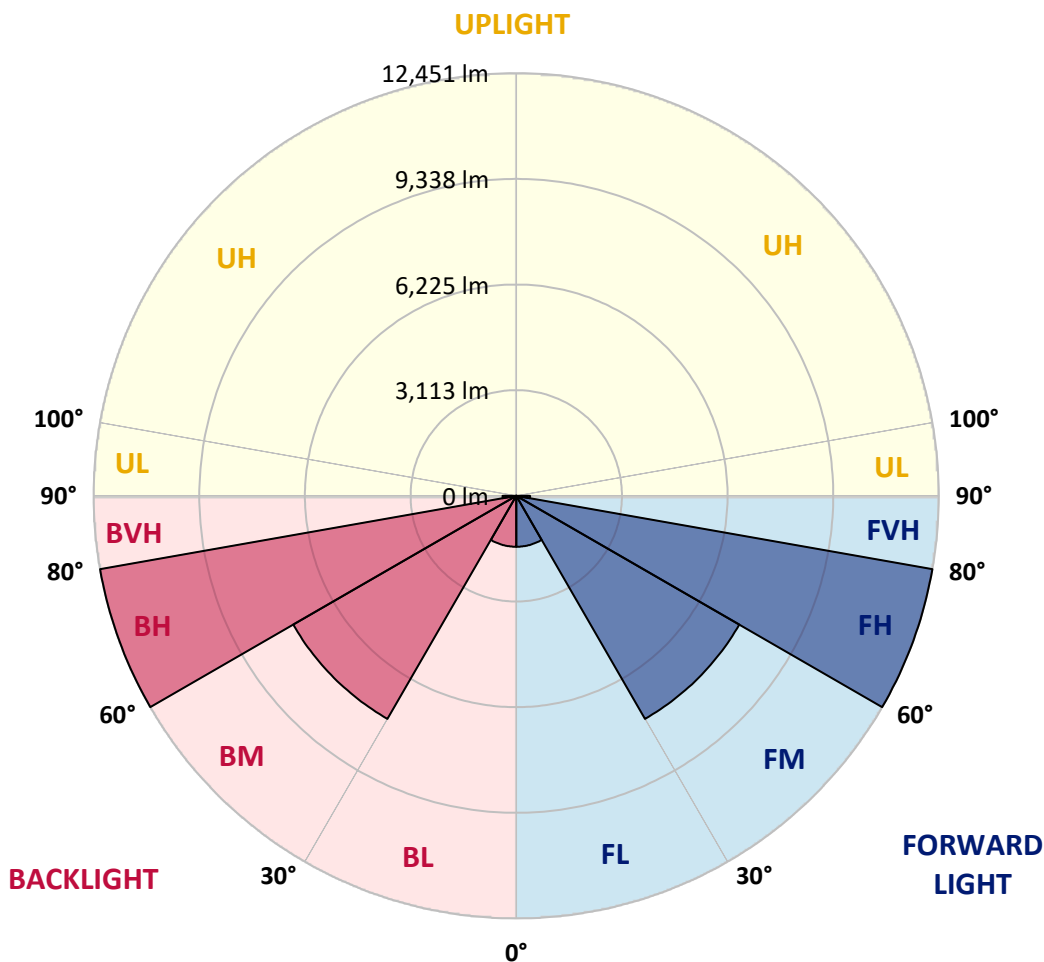


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1500.5	3.4			
FM (30°-60°)	7589.3	17.3			
FH (60°-80°)	12450.5	28.4			G5
FVH (80°-90°)	405.7	0.9			G3/500
BL (0°-30°)	1500.5	3.4	B3/2500		
BM (30°-60°)	7589.3	17.3	B4/8500		
BH (60°-80°)	12450.5	28.4	B5		G5
BVH (80°-90°)	405.7	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°	3612.3	3612.3	3612.3	3612.3	3612.3	3612.3	3612.3	3612.3	3612.3	3612.3	3612.3
2.5°	3596.3	3600.7	3596.3	3599.3	3592.0	3594.9	3594.9	3594.9	3593.4	3594.9	3592.0
5°	3564.4	3567.3	3561.5	3564.4	3560.0	3564.4	3565.9	3564.4	3561.5	3563.0	3557.1
7.5°	3516.5	3519.4	3515.0	3519.4	3513.6	3520.8	3519.4	3515.0	3510.7	3510.7	3504.9
10°	3490.4	3491.8	3480.2	3475.8	3462.8	3465.7	3470.0	3474.4	3478.7	3487.5	3486.0
12.5°	3491.8	3491.8	3474.4	3455.5	3436.6	3441.0	3448.3	3464.2	3481.6	3497.6	3499.1
15°	3506.3	3504.9	3478.7	3448.3	3435.2	3448.3	3452.6	3462.8	3490.4	3517.9	3519.4
17.5°	3516.5	3516.5	3475.8	3441.0	3439.5	3459.9	3458.4	3462.8	3493.3	3533.9	3535.4
20°	3535.4	3535.4	3483.1	3445.3	3445.3	3467.1	3468.6	3475.8	3506.3	3551.3	3558.6
22.5°	3577.5	3578.9	3523.8	3493.3	3496.2	3509.2	3513.6	3525.2	3552.8	3602.2	3610.9
25°	3637.0	3639.9	3583.3	3565.9	3576.0	3600.7	3597.8	3606.5	3637.0	3684.9	3693.6
27.5°	3719.8	3712.5	3660.2	3653.0	3663.1	3680.6	3679.1	3680.6	3705.2	3748.8	3759.0
30°	3827.2	3824.3	3786.5	3790.9	3786.5	3780.7	3782.2	3793.8	3806.9	3841.7	3851.9
32.5°	3931.7	3934.6	3911.4	3933.2	3965.1	3986.9	3953.5	3921.6	3907.1	3925.9	3934.6
35°	4120.5	4127.7	4091.4	4076.9	4120.5	4184.4	4090.0	4037.7	4066.8	4091.4	4098.7
37.5°	4441.4	4445.7	4384.7	4326.7	4294.7	4355.7	4261.3	4265.7	4367.3	4413.8	4412.3
40°	4807.2	4808.7	4768.0	4717.2	4662.0	4676.6	4638.8	4650.4	4717.2	4759.3	4770.9
42.5°	5242.8	5238.4	5174.6	5102.0	5086.0	5100.5	5036.6	5027.9	5104.9	5180.4	5181.8
45°	5807.6	5797.4	5714.7	5634.8	5557.9	5525.9	5509.9	5552.1	5658.0	5727.7	5729.2
47.5°	6415.9	6388.3	6344.8	6280.9	6214.1	6182.2	6156.0	6176.4	6253.3	6280.9	6283.8
50°	7041.7	7047.5	7056.2	7031.5	7006.9	6996.7	6928.4	6889.2	6912.5	6861.7	6854.4
52.5°	7783.6	7795.2	7879.4	7950.6	7992.7	8014.5	7885.2	7750.2	7674.7	7576.0	7547.0
55°	8659.1	8678.0	8801.4	8998.9	9202.1	9309.6	9075.8	8823.2	8589.4	8405.0	8345.5
57.5°	9634.8	9668.2	9838.0	10217.0	10633.7	10887.8	10492.9	10034.1	9582.5	9316.8	9270.4
60°	10778.9	10810.8	11046.0	11589.0	12264.2	12646.0	12047.8	11297.2	10735.3	10481.2	10395.6
62.5°	12140.8	12143.7	12432.6	13067.1	13958.5	14489.9	13679.8	12676.5	12097.2	11790.8	11708.1
65°	13605.7	13613.0	13912.1	14597.4	15519.3	16097.2	15182.5	14137.1	13428.6	12977.0	12913.2
67.5°	14640.9	14671.4	14986.5	15811.1	16673.6	17194.8	16248.2	15066.3	14247.5	13708.8	13655.1
70°	14475.4	14594.5	14964.7	15927.3	17126.6	17869.9	16420.9	14956.0	13875.8	13239.8	13194.8
72.5°	12624.2	12852.2	13345.8	14609.0	16526.9	17550.5	15478.7	13395.2	12172.7	11631.1	11549.8
75°	8596.7	8966.9	9711.7	11533.9	14119.7	15195.5	13030.8	10680.1	9530.2	8781.1	8725.9
77.5°	3833.0	3917.2	4860.9	6958.9	9743.7	10912.5	9467.8	6986.5	5244.2	4182.9	3959.3
80°	1068.6	1081.7	1443.2	2591.6	4876.9	6411.6	5235.5	2722.3	1530.3	1078.8	1016.3
82.5°	339.7	368.8	450.1	672.2	1639.2	2925.6	1682.7	725.9	516.9	412.3	371.7
85°	165.5	164.1	227.9	273.0	418.1	647.5	445.7	336.8	294.7	196.0	177.1
87.5°	69.7	71.1	106.0	95.8	122.0	104.5	143.7	151.0	158.3	87.1	75.5
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)