

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: P316592

Luminaire Tested: **GLEON-SA8A-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28843 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

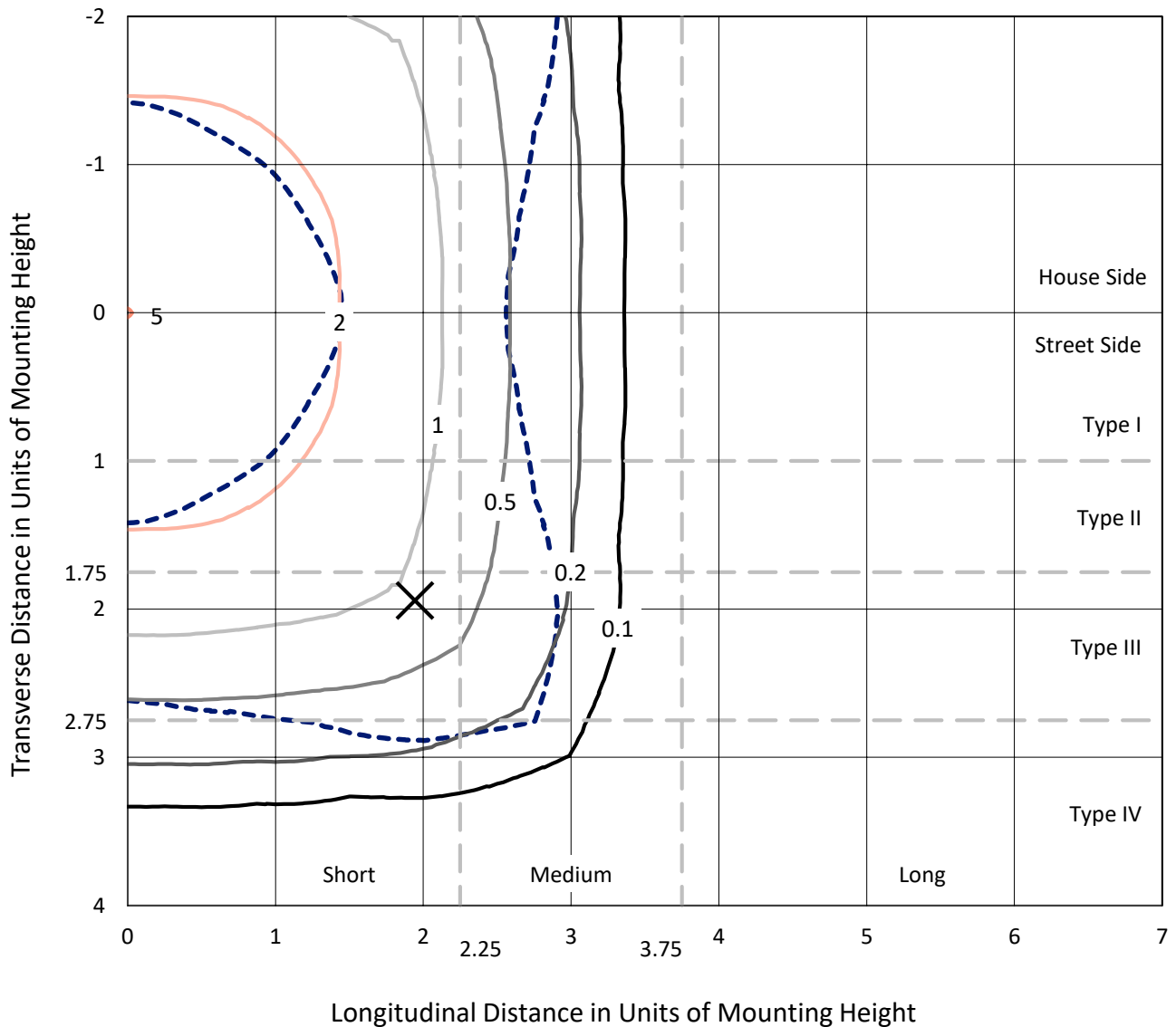
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

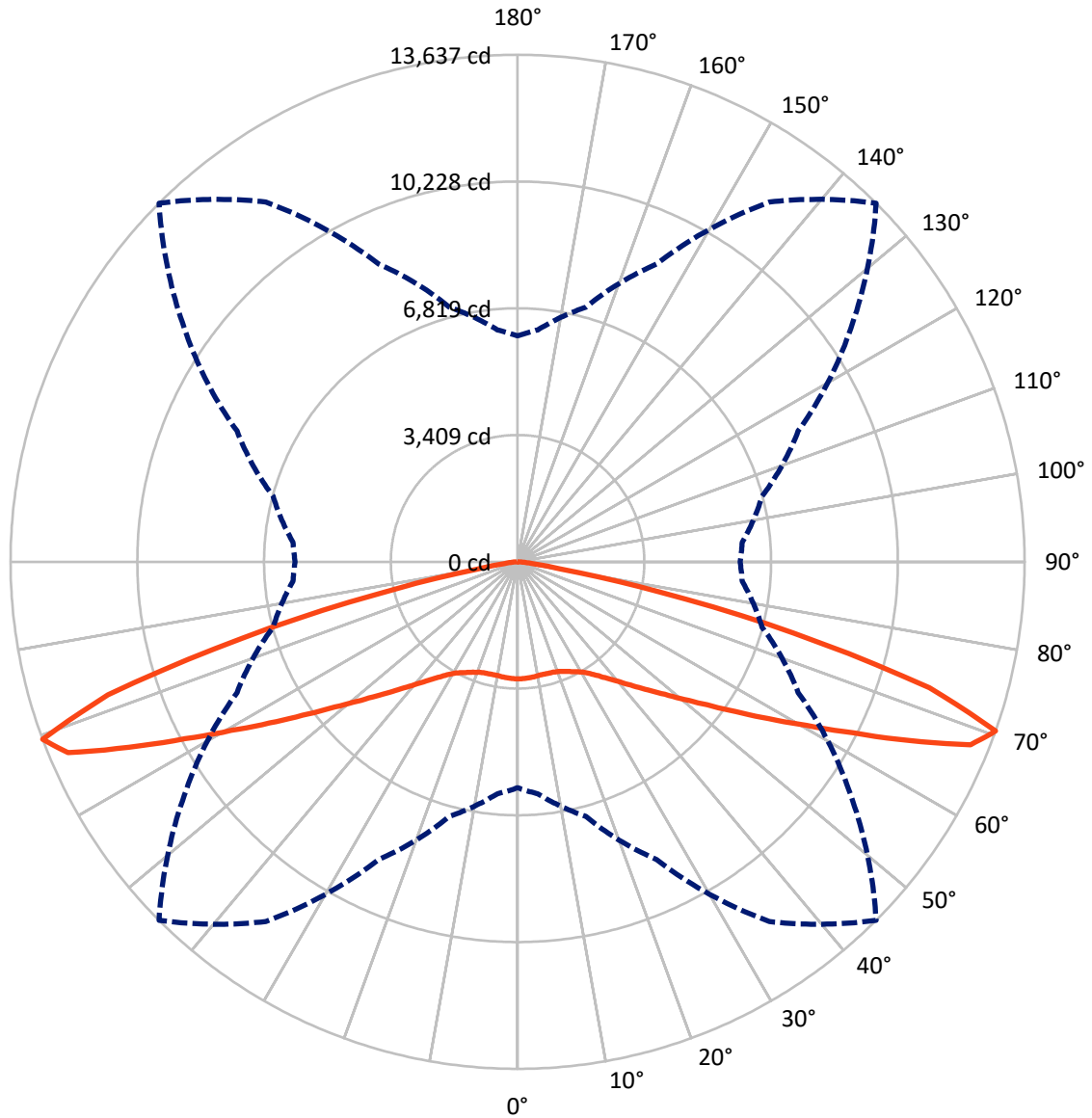
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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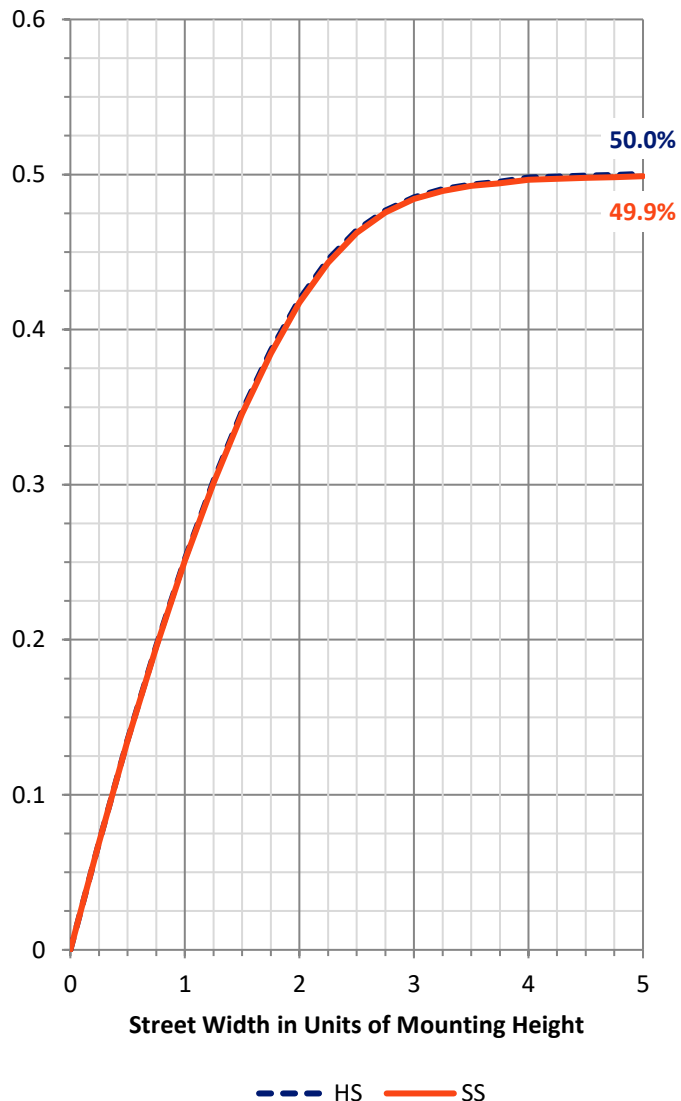
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14421.5	0.0	14421.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14421.5	0.0	14421.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28843.0	0.0	28843.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.4	1.0
10°-20°	875.9	3.0
20°-30°	1491.0	5.2
30°-40°	2364.7	8.2
40°-50°	3848.2	13.3
50°-60°	6344.9	22.0
60°-70°	9314.5	32.3
70°-80°	4118.9	14.3
80°-90°	186.5	0.6
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°	28843.0	100.0
0°-180°	28843.0	100.0

**Coefficient of Utilization**



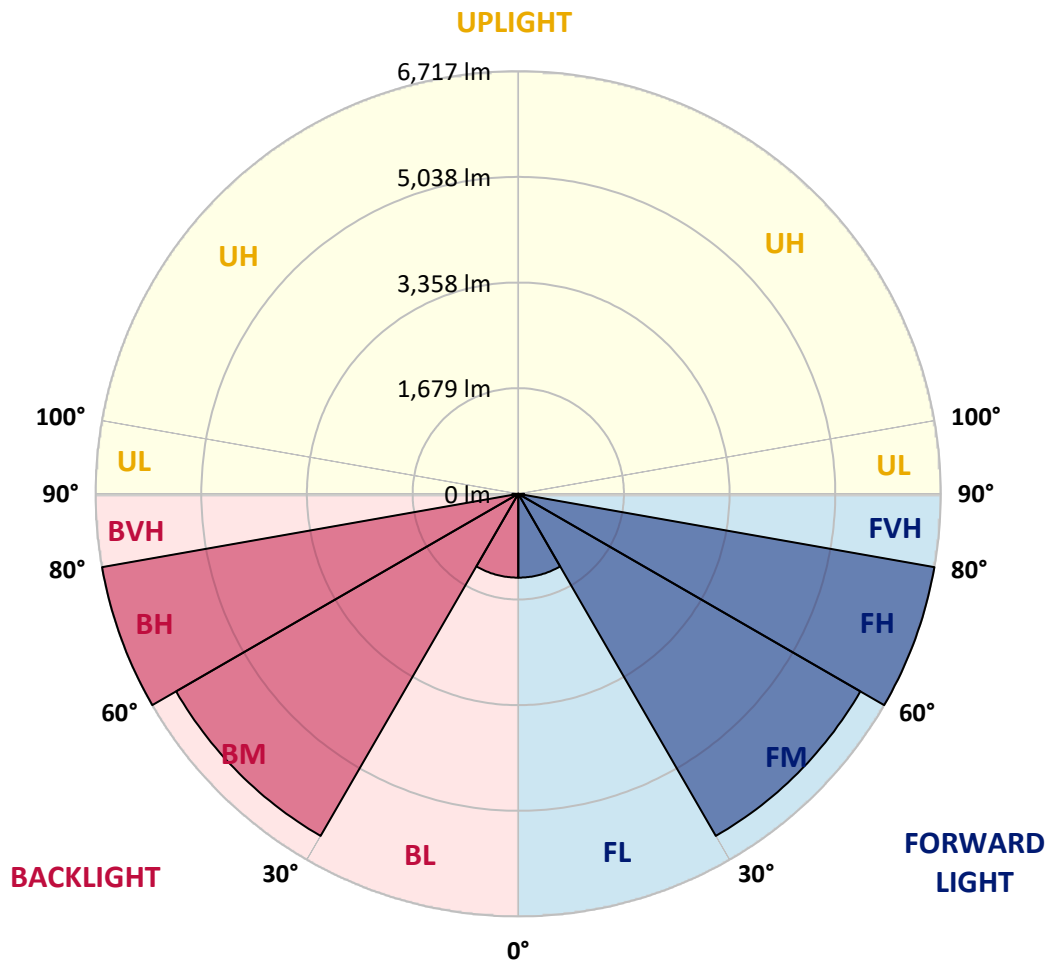
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.6	4.6			
FM (30°-60°)	6278.9	21.8			
FH (60°-80°)	6716.7	23.3			G3/7500
FVH (80°-90°)	93.3	0.3			G1/100
BL (0°-30°)	1332.6	4.6	B3/2500		
BM (30°-60°)	6278.9	21.8	B4/8500		
BH (60°-80°)	6716.7	23.3	B5		G3/7500
BVH (80°-90°)	93.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1
2.5°	3145.3	3142.5	3149.1	3148.2	3142.5	3143.4	3143.4	3146.3	3146.3	3144.4	3144.4
5°	3133.9	3132.0	3139.6	3139.6	3133.9	3135.8	3137.7	3140.6	3139.6	3137.7	3136.7
7.5°	3119.6	3118.6	3126.2	3126.2	3122.4	3124.3	3122.4	3123.4	3121.5	3119.6	3116.7
10°	3095.7	3097.6	3104.3	3106.2	3106.2	3107.1	3105.2	3100.5	3097.6	3094.7	3091.9
12.5°	3073.7	3072.8	3082.3	3087.1	3094.7	3103.3	3097.6	3084.2	3078.5	3072.8	3070.9
15°	3059.4	3060.4	3069.9	3078.5	3091.9	3110.0	3103.3	3082.3	3070.9	3064.2	3062.3
17.5°	3056.6	3058.5	3070.9	3086.1	3100.5	3120.5	3116.7	3095.7	3076.6	3064.2	3061.3
20°	3063.2	3064.2	3083.3	3105.2	3130.1	3149.1	3140.6	3117.6	3091.9	3072.8	3068.0
22.5°	3075.6	3079.5	3103.3	3137.7	3175.9	3201.7	3191.2	3152.0	3111.9	3088.1	3081.4
25°	3114.8	3115.7	3148.2	3195.0	3240.8	3270.4	3258.0	3202.6	3151.1	3124.3	3115.7
27.5°	3195.9	3198.8	3231.2	3285.7	3324.8	3343.9	3336.2	3291.4	3247.5	3218.8	3221.7
30°	3313.3	3317.2	3353.4	3413.6	3437.4	3442.2	3440.3	3419.3	3379.2	3341.0	3343.9
32.5°	3456.5	3458.4	3507.1	3561.5	3580.6	3584.4	3580.6	3561.5	3513.8	3462.3	3465.1
35°	3640.8	3646.5	3693.3	3745.8	3761.0	3768.7	3762.0	3737.2	3687.5	3636.9	3635.0
37.5°	3867.9	3868.9	3917.6	3972.0	3991.1	3993.0	3985.4	3969.1	3907.1	3861.3	3858.4
40°	4131.4	4135.2	4192.5	4250.7	4258.4	4249.8	4260.3	4250.7	4186.8	4134.3	4142.9
42.5°	4452.1	4460.7	4529.5	4586.7	4564.8	4560.0	4566.7	4569.6	4518.0	4454.1	4448.3
45°	4825.4	4833.0	4918.9	4964.8	4950.4	4918.9	4932.3	4955.2	4883.6	4804.4	4812.0
47.5°	5251.1	5270.2	5361.9	5404.8	5369.5	5326.5	5352.3	5386.7	5302.7	5204.4	5199.6
50°	5724.6	5748.5	5870.6	5930.8	5895.5	5816.2	5859.2	5882.1	5760.9	5633.9	5623.4
52.5°	6229.6	6253.4	6407.1	6531.2	6508.3	6385.2	6445.3	6421.4	6282.1	6111.2	6097.8
55°	6801.4	6810.9	6977.0	7177.5	7200.4	7109.7	7105.9	7066.7	6860.5	6662.9	6653.4
57.5°	7389.4	7396.1	7610.8	7847.6	7955.4	7955.4	7848.5	7765.5	7491.5	7262.4	7238.6
60°	8024.2	8048.0	8285.7	8607.4	8859.4	8933.9	8744.9	8518.6	8220.8	7941.1	7913.4
62.5°	8589.3	8617.0	8980.7	9459.9	9864.6	10135.7	9673.7	9305.2	8763.0	8314.4	8261.9
65°	8660.9	8735.3	9265.1	10132.8	11038.7	11580.0	10694.1	9786.3	8798.3	8175.0	8121.5
67.5°	7909.6	8035.6	8751.6	10102.3	11974.2	13135.9	11346.1	9511.4	8164.5	7475.3	7416.1
70°	6077.8	6261.1	7086.8	8836.5	11812.9	13637.1	10937.5	8326.8	6807.1	6065.4	5982.3
72.5°	3334.3	3409.7	4152.4	6051.1	9470.4	11588.6	9122.9	6157.0	4514.2	3673.2	3533.8
75°	1057.7	1084.4	1462.4	2476.2	5357.1	7675.8	5795.2	3022.2	1663.8	1226.6	1212.3
77.5°	469.7	472.5	528.8	722.6	1845.2	3888.9	2216.5	822.8	567.0	495.4	511.7
80°	296.9	296.9	327.4	358.0	502.1	1129.3	599.5	391.4	334.1	310.2	316.9
82.5°	142.2	157.5	212.9	229.1	275.9	379.9	307.4	255.8	223.4	166.1	154.6
85°	93.5	78.3	134.6	151.8	160.4	182.3	178.5	169.0	146.1	83.0	92.6
87.5°	42.0	40.1	69.7	64.0	60.1	45.8	68.7	85.0	82.1	41.0	41.0
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)