

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: P316910

Luminaire Tested: **GLEON-SA6A-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21135 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

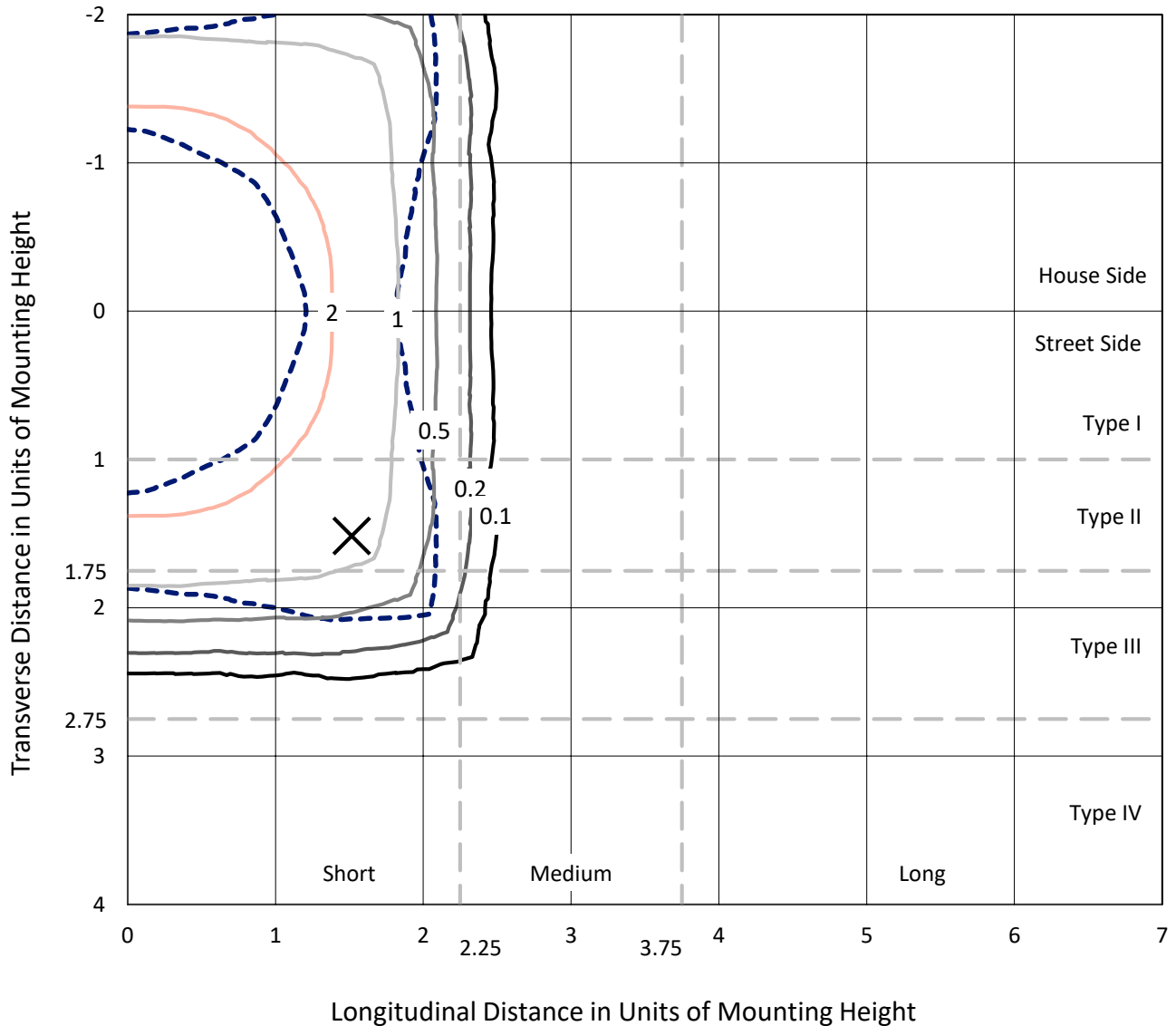
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

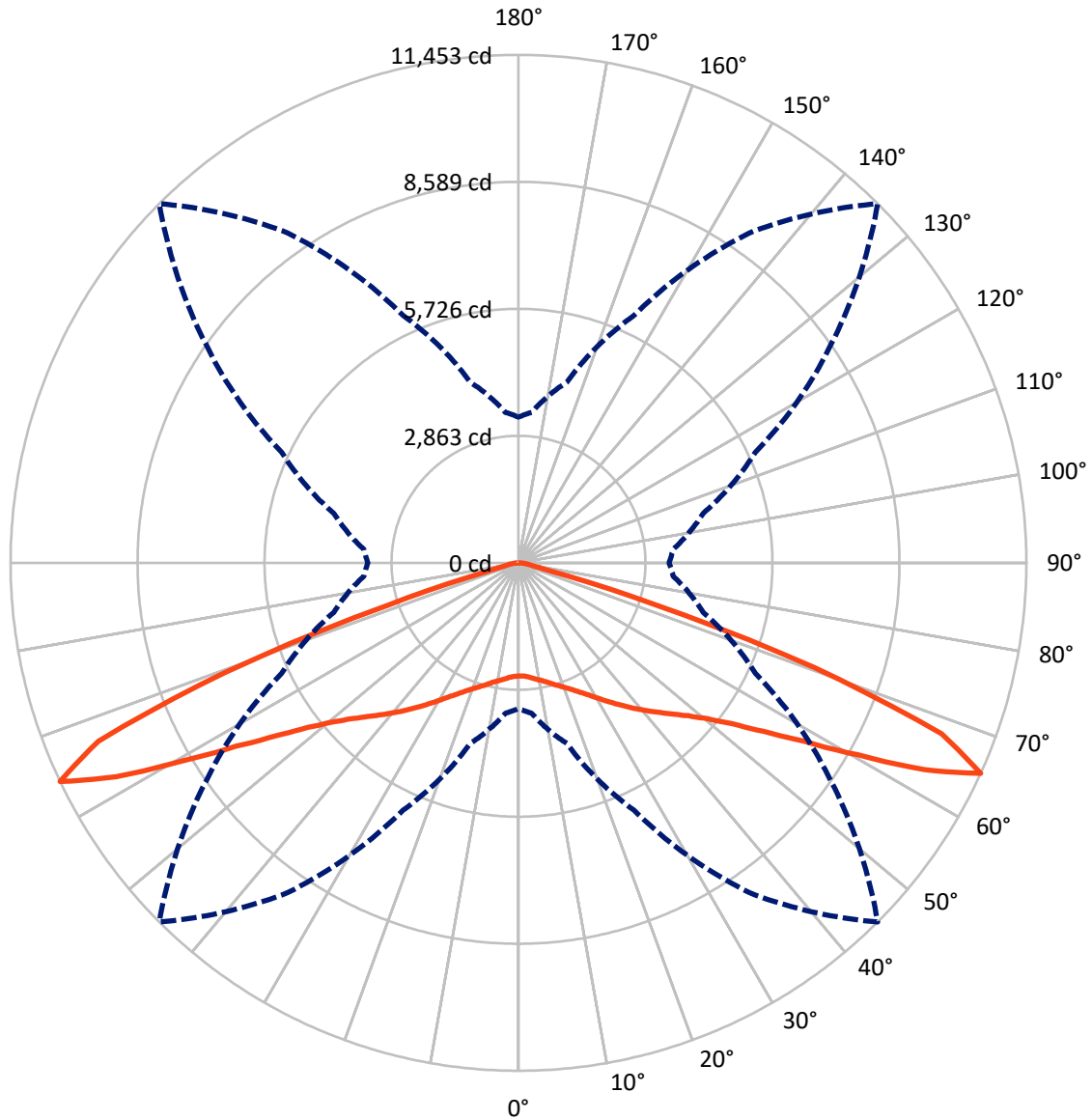
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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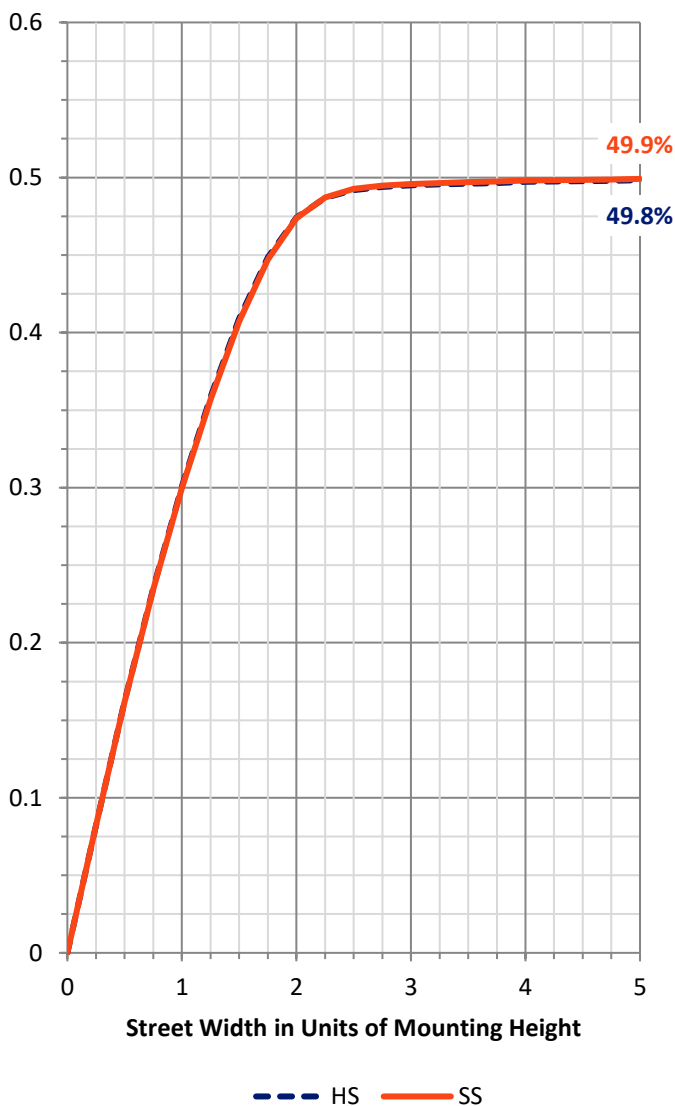
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10567.5	0.0	10567.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10567.5	0.0	10567.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21135.0	0.0	21135.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.4	1.2
10°-20°	804.9	3.8
20°-30°	1510.2	7.1
30°-40°	2497.5	11.8
40°-50°	3868.3	18.3
50°-60°	5932.9	28.1
60°-70°	5536.0	26.2
70°-80°	644.3	3.0
80°-90°	90.5	0.4
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°	21135.0	100.0
0°-180°	21135.0	100.0

**Coefficient of Utilization**



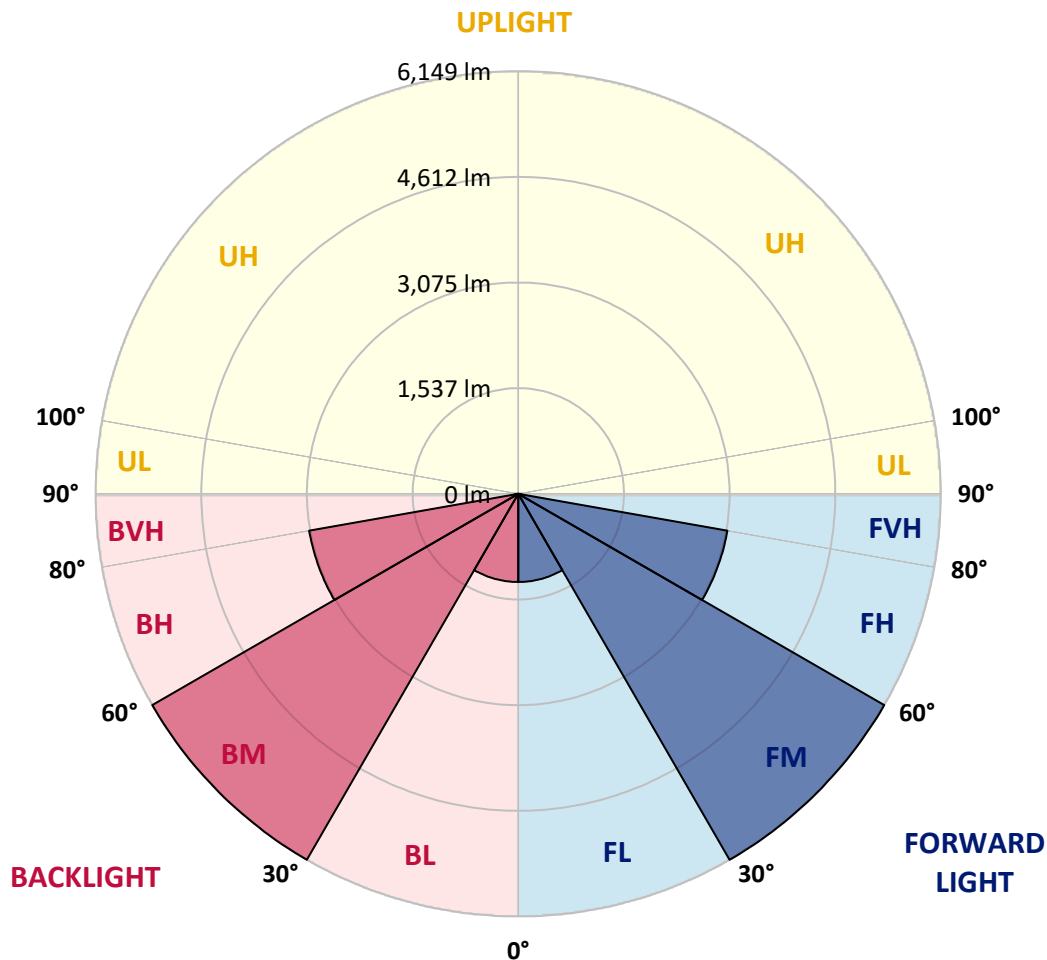
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.7	6.1			
FM (30°-60°)	6149.3	29.1			
FH (60°-80°)	3090.2	14.6			G2/5000
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	1282.7	6.1	B3/2500		
BM (30°-60°)	6149.3	29.1	B4/8500		
BH (60°-80°)	3090.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	45.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3
2.5°	2560.7	2559.3	2560.7	2561.4	2557.2	2559.3	2558.6	2562.1	2563.5	2562.1	2562.1
5°	2590.2	2588.1	2590.9	2594.4	2588.8	2590.2	2588.1	2592.3	2593.7	2590.9	2593.0
7.5°	2630.9	2631.6	2634.4	2640.7	2637.2	2640.0	2635.8	2636.5	2635.8	2631.6	2632.3
10°	2675.1	2675.8	2680.7	2689.1	2690.5	2690.5	2687.7	2685.6	2682.8	2680.0	2680.7
12.5°	2728.4	2731.9	2735.4	2746.0	2746.0	2751.6	2750.2	2744.5	2739.6	2735.4	2735.4
15°	2800.7	2800.0	2804.2	2814.7	2819.6	2828.7	2828.7	2821.0	2814.7	2810.5	2809.1
17.5°	2876.4	2878.5	2881.4	2894.0	2901.7	2912.2	2913.6	2907.3	2903.1	2897.5	2894.0
20°	2964.8	2968.4	2979.6	2984.5	2991.5	3001.3	3004.8	3003.4	2999.2	2996.4	2997.1
22.5°	3068.0	3077.1	3084.1	3091.1	3099.5	3106.6	3110.1	3115.0	3110.8	3108.7	3107.3
25°	3192.9	3199.2	3213.2	3225.8	3231.4	3233.5	3237.8	3244.8	3244.1	3239.2	3239.2
27.5°	3334.6	3346.5	3364.0	3382.3	3382.3	3375.3	3389.3	3401.2	3397.0	3390.7	3382.3
30°	3506.5	3517.7	3538.0	3563.3	3550.7	3545.7	3564.7	3586.4	3580.1	3569.6	3568.2
32.5°	3691.7	3702.2	3728.9	3756.2	3740.1	3733.1	3753.4	3785.0	3773.8	3752.7	3740.1
35°	3892.3	3902.8	3940.7	3973.7	3946.3	3934.4	3951.3	3985.6	3966.0	3926.7	3916.9
37.5°	4110.5	4116.1	4165.2	4198.9	4180.0	4148.4	4169.4	4194.7	4177.9	4130.2	4111.2
40°	4337.1	4357.5	4414.3	4453.6	4420.6	4370.8	4405.9	4441.0	4415.7	4354.7	4322.4
42.5°	4601.6	4617.0	4692.8	4727.9	4674.6	4604.4	4652.1	4699.8	4674.6	4615.6	4587.6
45°	4876.6	4900.5	4991.0	5026.1	4948.9	4859.8	4918.0	5001.5	4999.4	4914.5	4885.0
47.5°	5176.2	5200.1	5308.1	5354.4	5270.9	5151.6	5233.7	5351.6	5343.2	5249.9	5226.0
50°	5522.1	5547.3	5682.0	5740.3	5662.4	5523.5	5647.0	5750.8	5735.4	5620.3	5622.4
52.5°	5956.3	5954.9	6122.6	6223.6	6143.7	6020.9	6134.5	6235.6	6171.7	6012.5	6007.6
55°	6336.6	6359.8	6567.4	6758.9	6754.0	6707.0	6752.6	6756.8	6574.4	6362.6	6336.6
57.5°	6586.4	6630.6	6923.1	7269.7	7529.3	7591.7	7503.3	7235.3	6808.1	6469.2	6427.8
60°	6432.7	6500.1	6959.6	7666.1	8430.8	8797.7	8298.9	7467.5	6626.3	6154.2	6098.1
62.5°	5395.8	5509.4	6182.3	7474.5	9206.7	10279.4	8875.6	7095.0	5903.7	5253.4	5157.3
65°	3286.2	3406.1	4217.1	6152.1	9081.1	11452.5	8612.5	5889.0	4309.1	3500.1	3396.3
67.5°	1095.2	1130.2	1608.0	3400.5	7137.1	10290.0	7149.0	3525.4	1875.3	1243.2	1206.7
70°	428.7	432.2	510.0	985.7	3370.4	7067.6	3719.0	1003.2	533.2	421.6	430.8
72.5°	315.0	316.4	338.2	411.8	878.4	3113.6	909.9	413.9	329.0	295.4	295.4
75°	253.3	253.3	268.7	300.3	393.6	714.2	399.2	296.8	257.5	235.7	232.9
77.5°	199.9	204.2	216.1	236.4	266.6	343.8	276.4	235.0	207.7	187.3	183.1
80°	148.7	152.9	172.6	182.4	191.5	238.5	204.2	183.8	164.2	140.3	136.1
82.5°	97.5	101.7	126.3	131.9	129.8	155.7	137.5	135.4	120.7	90.5	86.3
85°	63.8	65.2	84.2	87.7	80.7	70.9	87.7	92.6	84.2	58.9	56.8
87.5°	30.2	30.2	42.8	40.0	36.5	29.5	40.0	47.0	47.7	28.8	28.1
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)