

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: P317234

Luminaire Tested: **GLEON-SA0A-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34662 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

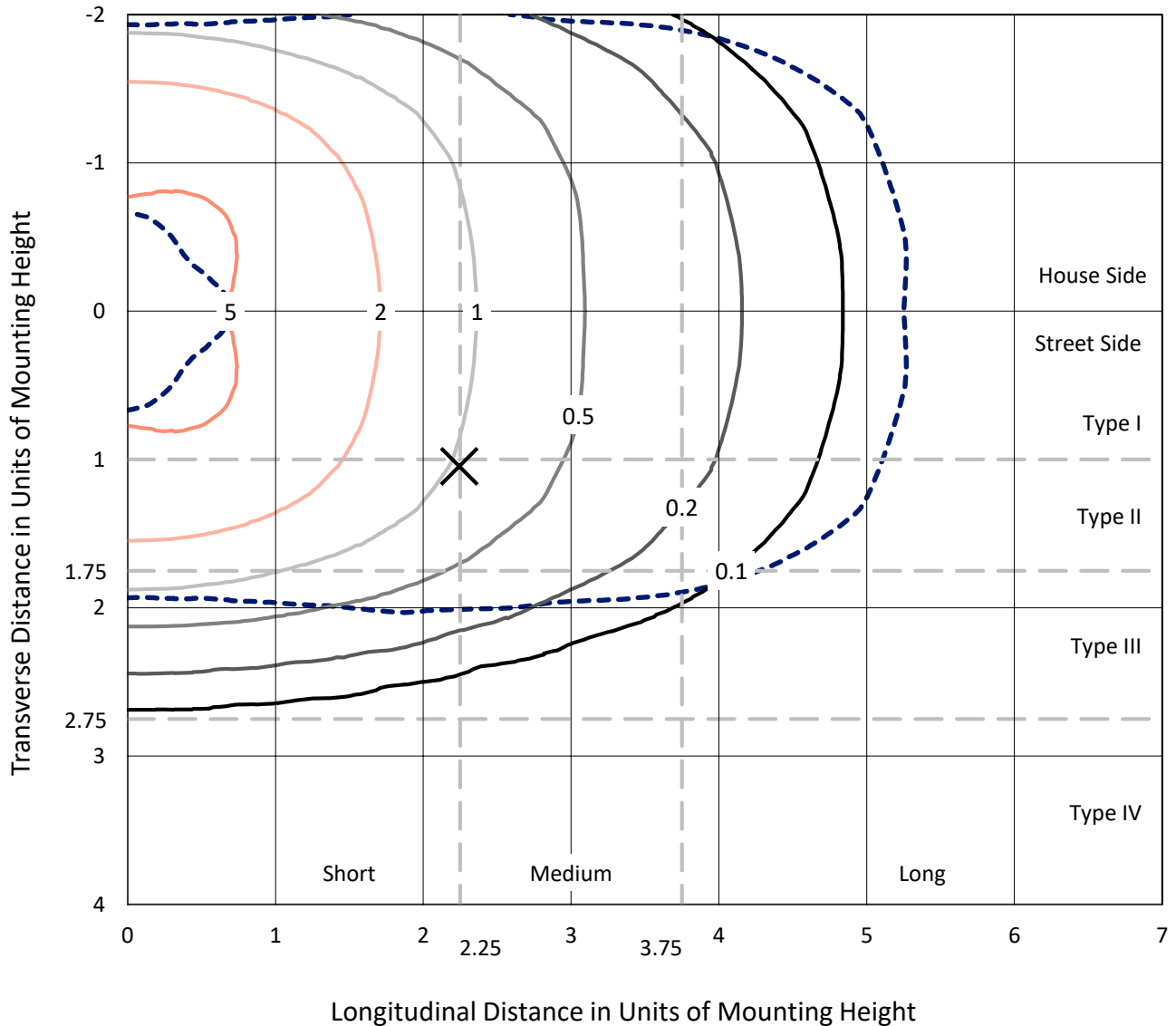
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

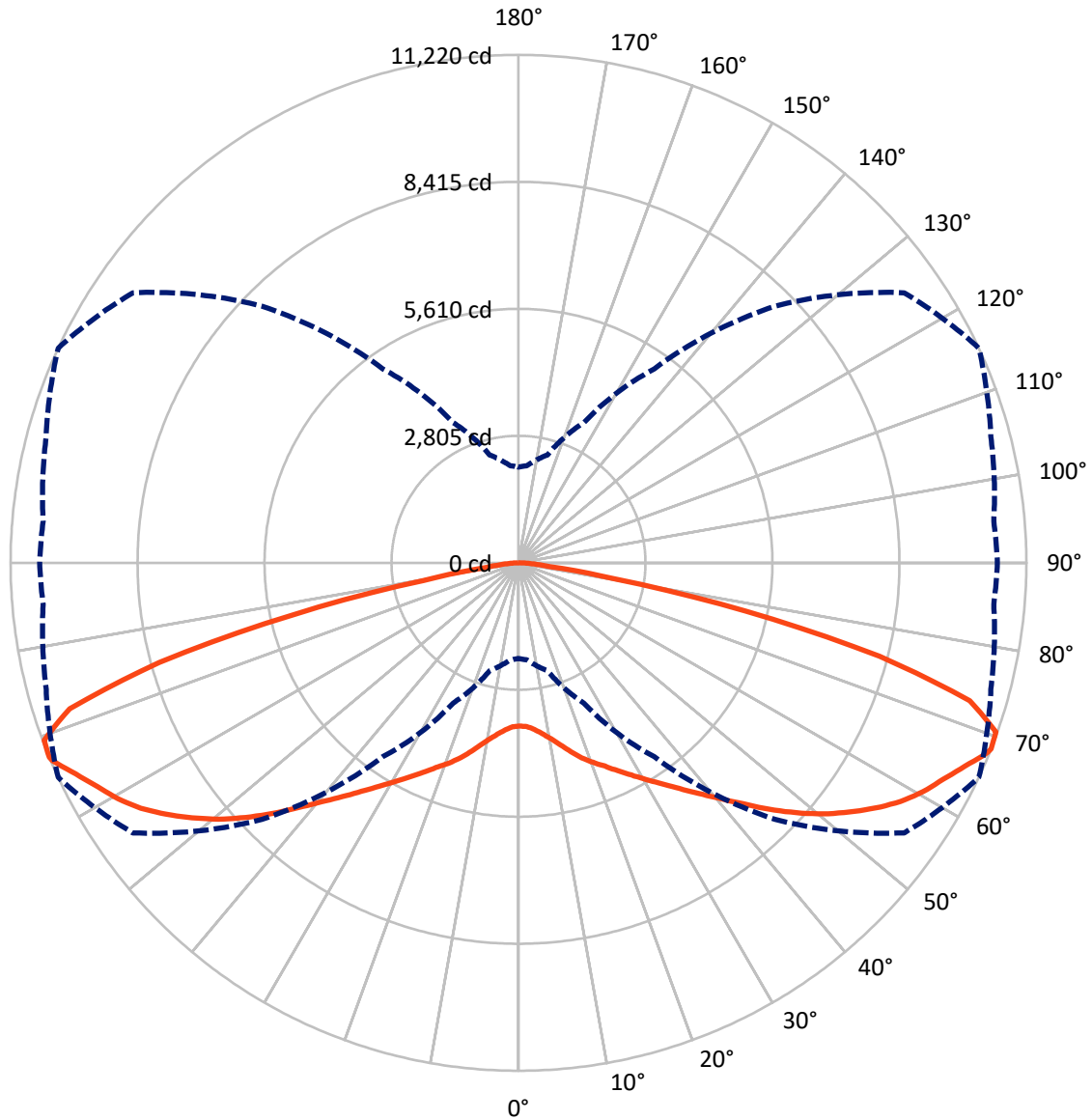
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17331.0	0.0	17331.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17331.0	0.0	17331.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34662.0	0.0	34662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.9	1.0
10°-20°	1181.5	3.4
20°-30°	2303.7	6.6
30°-40°	3870.0	11.2
40°-50°	6097.7	17.6
50°-60°	8154.7	23.5
60°-70°	7927.4	22.9
70°-80°	4333.5	12.5
80°-90°	440.7	1.3
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°	34662.0	100.0
0°-180°	34662.0	100.0

**Coefficient of Utilization**

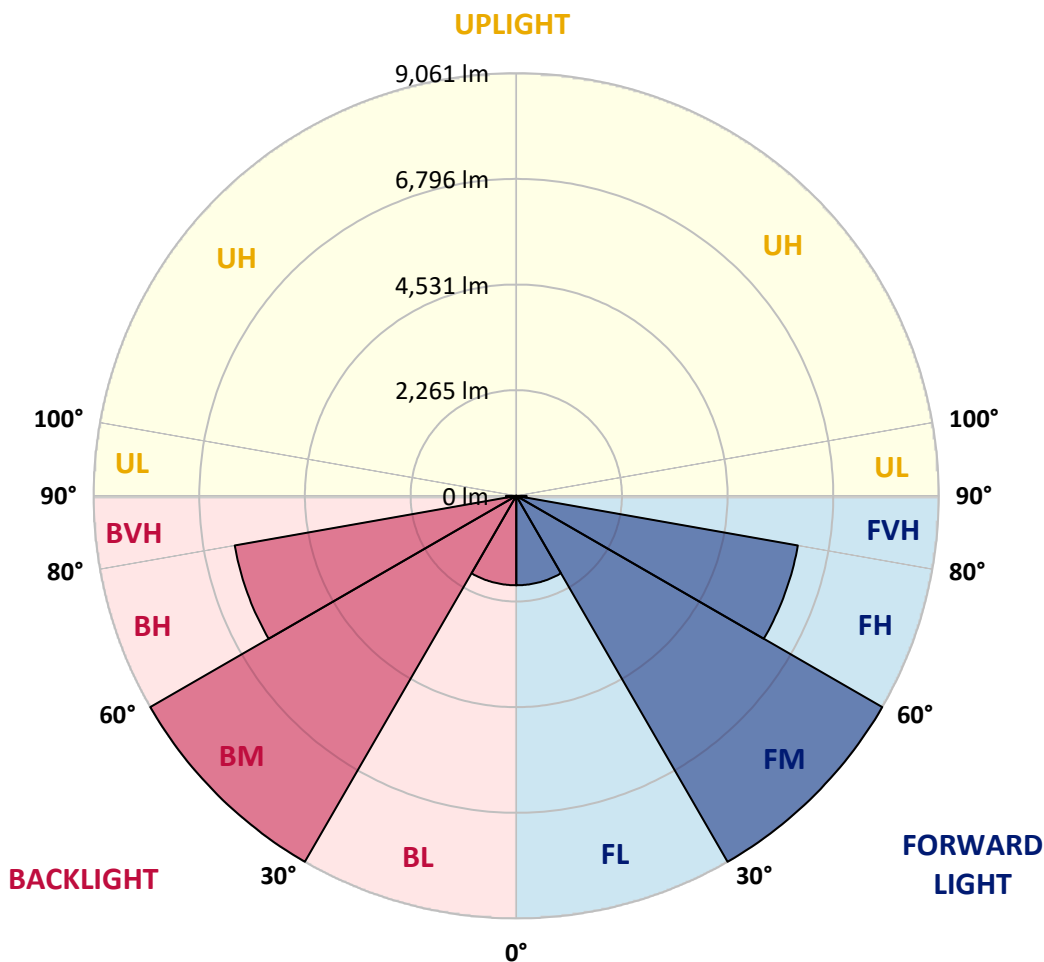


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.0	5.5			
FM (30°-60°)	9061.2	26.1			
FH (60°-80°)	6130.4	17.7			G3/7500
FVH (80°-90°)	220.4	0.6			G2/225
BL (0°-30°)	1919.0	5.5	B3/2500		
BM (30°-60°)	9061.2	26.1	B5		
BH (60°-80°)	6130.4	17.7	B5		G5
BVH (80°-90°)	220.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0
2.5°	3578.5	3579.6	3585.4	3592.4	3598.2	3613.3	3616.8	3622.6	3625.0	3630.8	3630.8
5°	3547.1	3549.4	3563.4	3582.0	3602.9	3640.1	3666.8	3697.0	3712.1	3728.4	3727.2
7.5°	3543.6	3549.4	3569.2	3599.4	3634.3	3695.8	3751.6	3812.1	3852.7	3889.9	3887.6
10°	3579.6	3588.9	3616.8	3662.1	3714.4	3791.1	3873.7	3955.0	4025.9	4082.9	4085.2
12.5°	3634.3	3645.9	3690.0	3758.6	3837.6	3936.4	4034.1	4125.9	4223.5	4308.3	4315.3
15°	3706.3	3721.4	3787.7	3889.9	4010.8	4128.2	4232.8	4326.9	4439.7	4557.0	4568.7
17.5°	3813.2	3834.2	3921.3	4059.6	4218.8	4347.9	4457.1	4528.0	4622.1	4743.0	4765.1
20°	3975.9	4002.7	4113.1	4278.1	4472.2	4607.0	4690.7	4705.8	4752.3	4860.4	4886.0
22.5°	4187.5	4210.7	4333.9	4530.3	4747.7	4894.1	4938.3	4877.8	4873.2	4960.3	4984.7
25°	4423.4	4444.3	4587.3	4808.1	5041.7	5203.2	5202.1	5084.7	5003.3	5070.7	5096.3
27.5°	4688.4	4720.9	4858.1	5090.5	5340.4	5499.6	5490.3	5309.0	5154.4	5171.9	5193.9
30°	4992.9	5028.9	5162.6	5398.5	5648.4	5804.1	5792.5	5553.1	5320.6	5274.1	5290.4
32.5°	5370.6	5413.6	5540.3	5772.7	5993.5	6134.2	6100.5	5818.1	5520.5	5419.4	5434.5
35°	5825.0	5850.6	5984.3	6213.2	6392.2	6488.7	6417.8	6124.9	5773.9	5651.9	5651.9
37.5°	6285.3	6305.0	6454.9	6676.9	6850.1	6901.2	6762.9	6460.8	6105.1	5932.0	5935.4
40°	6726.9	6780.4	6948.9	7176.7	7347.5	7361.5	7177.8	6844.3	6473.5	6294.6	6315.5
42.5°	7188.3	7240.6	7441.7	7699.7	7850.8	7874.0	7659.0	7274.3	6889.6	6744.3	6767.6
45°	7599.7	7641.6	7874.0	8173.9	8362.1	8422.6	8168.1	7767.1	7339.4	7197.6	7203.4
47.5°	7886.8	7941.4	8197.1	8550.4	8824.7	8917.7	8667.8	8247.1	7782.2	7610.2	7625.3
50°	8147.1	8176.2	8435.4	8821.2	9169.9	9361.7	9147.8	8721.3	8229.7	8047.2	8063.5
52.5°	8292.4	8329.6	8580.6	8982.8	9395.4	9704.5	9574.3	9147.8	8662.0	8484.2	8503.9
55°	8191.3	8219.2	8520.2	9018.8	9534.8	9916.0	9935.8	9565.0	9086.2	8930.5	8986.3
57.5°	7731.1	7765.9	8133.2	8786.4	9552.3	10059.0	10207.7	9952.1	9482.5	9355.8	9388.4
60°	7011.7	7033.7	7425.4	8159.9	9212.9	10118.3	10380.9	10268.2	9870.7	9744.0	9788.2
62.5°	5729.7	5762.3	6230.6	7215.0	8495.8	9942.8	10548.3	10529.7	10232.2	10115.9	10155.4
65°	3916.7	3973.6	4492.0	5736.7	7390.5	9405.8	10700.5	10834.2	10551.8	10405.3	10457.6
67.5°	2365.1	2406.9	2782.3	3787.7	5655.3	8322.6	10543.6	11180.5	10777.2	10541.3	10584.3
68°	2114.1	2152.4	2466.2	3418.1	5231.1	8017.0	10400.7	11220.0	10801.6	10539.0	10577.3
70°	1277.3	1302.8	1513.2	2112.9	3487.8	6359.6	9425.6	11187.5	10957.4	10571.5	10593.6
72.5°	832.1	840.3	875.1	1084.3	1781.7	3556.4	7074.4	10425.1	11191.0	10761.0	10757.5
75°	691.5	686.9	690.4	714.8	878.6	1559.7	4134.0	8235.5	10668.0	10462.3	10389.1
77.5°	584.6	581.1	579.9	581.1	588.1	753.1	1794.5	5130.0	8163.4	9254.7	9319.8
80°	473.0	468.4	483.5	476.5	455.6	468.4	752.0	2133.8	3848.1	4139.8	3879.5
82.5°	344.0	326.6	391.7	373.1	355.6	330.1	414.9	689.2	918.2	629.9	442.8
85°	265.0	246.4	297.5	285.9	244.1	168.5	246.4	337.0	371.9	212.7	167.4
87.5°	108.1	113.9	215.0	169.7	143.0	81.4	101.1	134.8	181.3	90.7	69.7
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)