

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: P316912

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316912  
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-SA8A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 28321 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

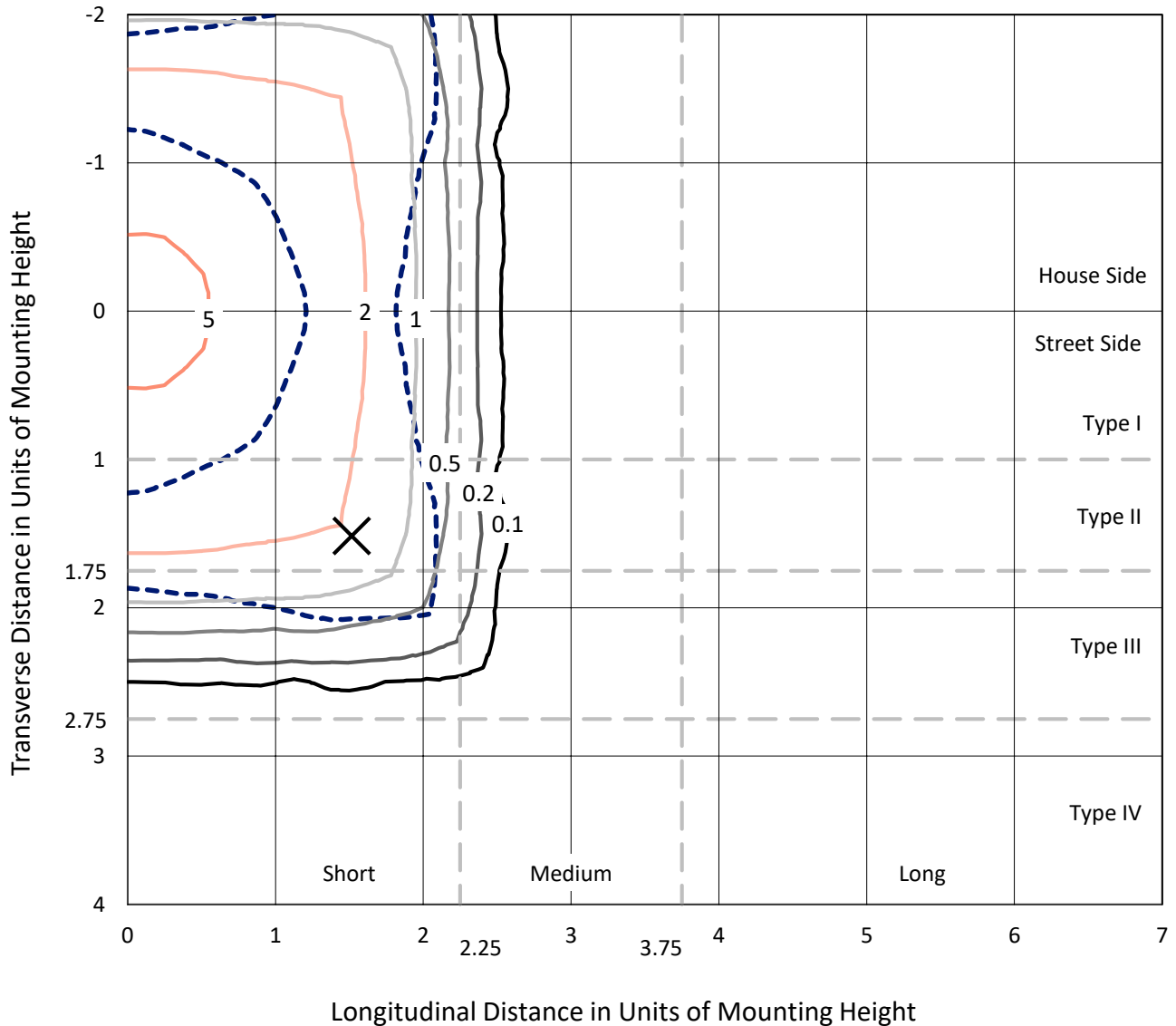
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

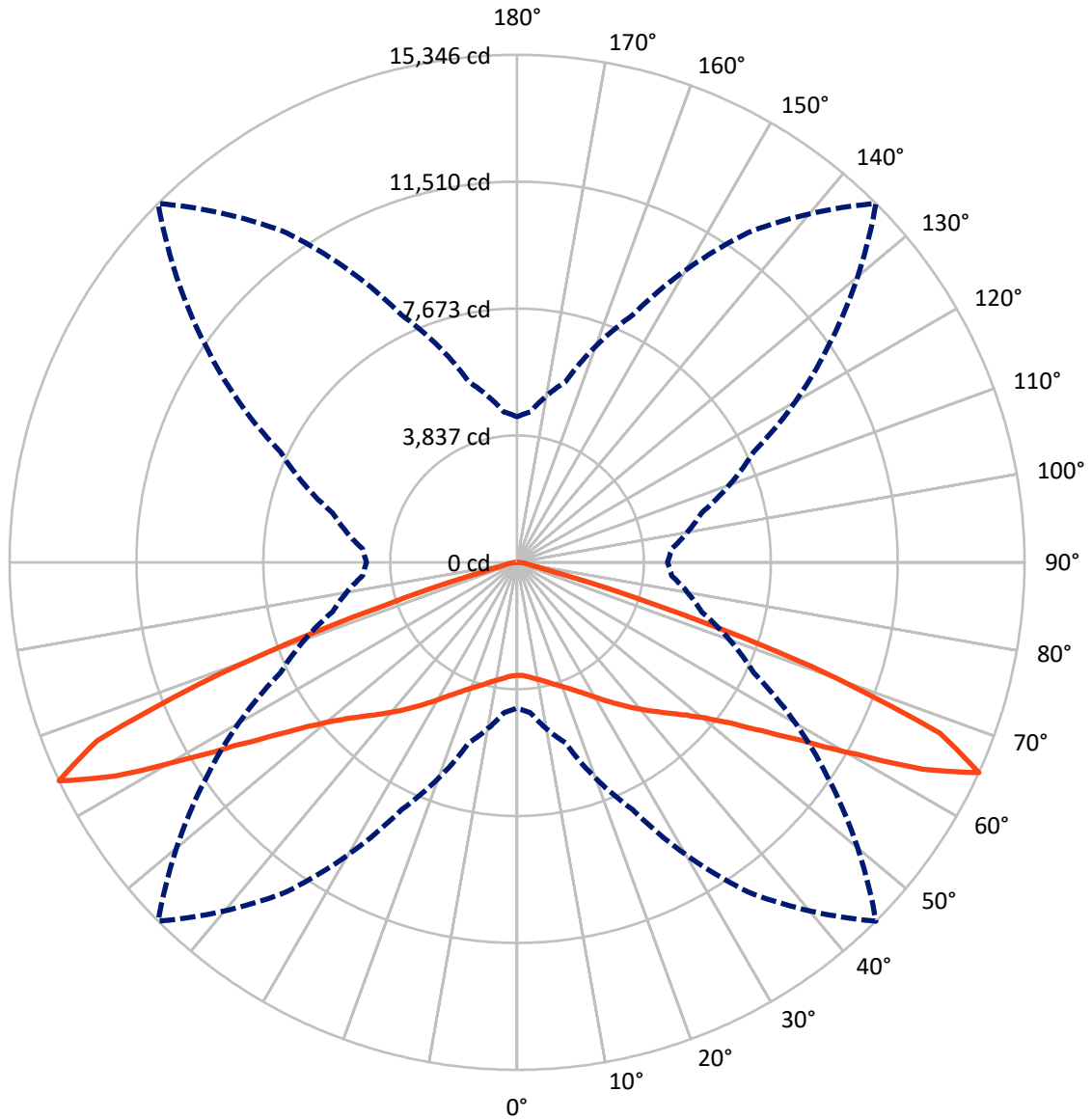
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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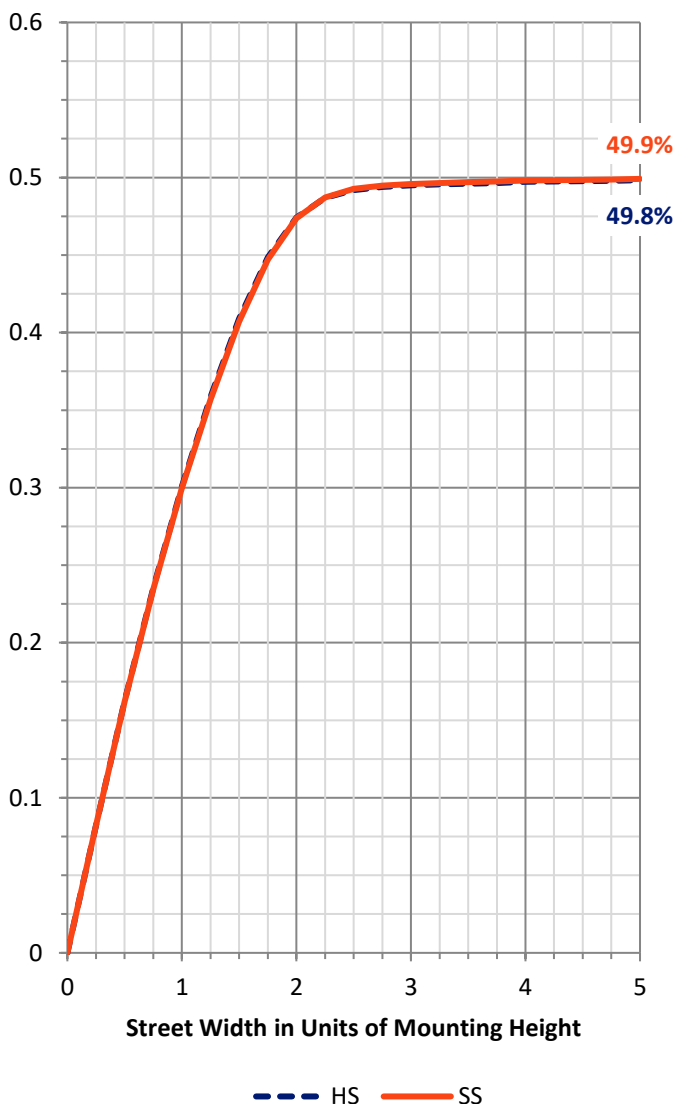
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14160.5	0.0	14160.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14160.5	0.0	14160.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28321.0	0.0	28321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.5	1.2
10°-20°	1078.6	3.8
20°-30°	2023.6	7.1
30°-40°	3346.7	11.8
40°-50°	5183.5	18.3
50°-60°	7950.1	28.1
60°-70°	7418.3	26.2
70°-80°	863.4	3.0
80°-90°	121.3	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°	28321.0	100.0
0°-180°	28321.0	100.0

**Coefficient of Utilization**



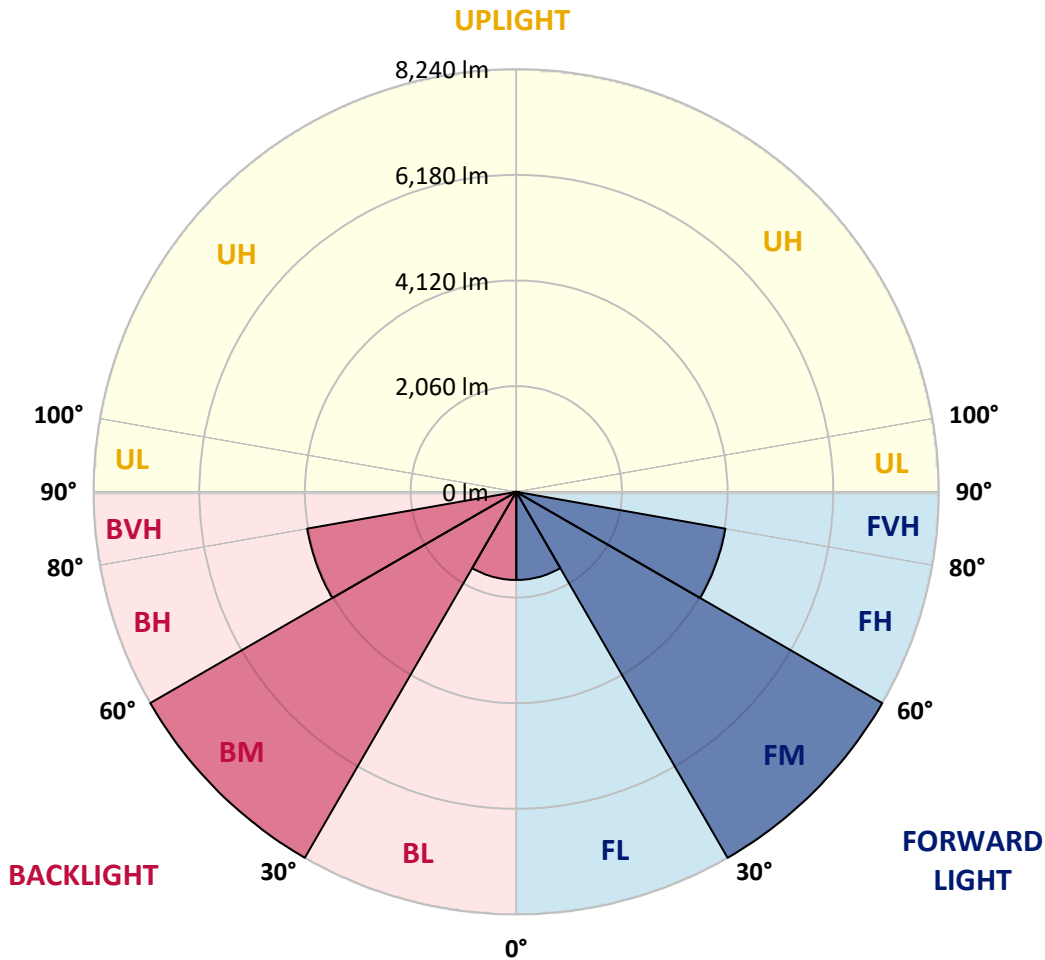
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.9	6.1			
FM (30°-60°)	8240.1	29.1			
FH (60°-80°)	4140.8	14.6			G2/5000
FVH (80°-90°)	60.7	0.2			G1/100
BL (0°-30°)	1718.9	6.1	B3/2500		
BM (30°-60°)	8240.1	29.1	B4/8500		
BH (60°-80°)	4140.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	60.7	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°	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1
2.5°	3431.4	3429.5	3431.4	3432.3	3426.7	3429.5	3428.6	3433.3	3435.2	3433.3	3433.3
5°	3470.9	3468.1	3471.8	3476.5	3469.0	3470.9	3468.1	3473.7	3475.6	3471.8	3474.6
7.5°	3525.4	3526.4	3530.1	3538.6	3533.9	3537.6	3532.0	3532.9	3532.0	3526.4	3527.3
10°	3584.6	3585.6	3592.2	3603.4	3605.3	3605.3	3601.6	3598.7	3595.0	3591.2	3592.2
12.5°	3656.1	3660.8	3665.5	3679.6	3679.6	3687.1	3685.2	3677.7	3671.1	3665.5	3665.5
15°	3752.9	3752.0	3757.6	3771.7	3778.3	3790.5	3790.5	3780.2	3771.7	3766.1	3764.2
17.5°	3854.5	3857.3	3861.0	3878.0	3888.3	3902.4	3904.3	3895.8	3890.2	3882.7	3878.0
20°	3972.9	3977.6	3992.6	3999.2	4008.6	4021.8	4026.5	4024.6	4019.0	4015.2	4016.1
22.5°	4111.1	4123.3	4132.7	4142.1	4153.4	4162.8	4167.5	4174.1	4168.4	4165.6	4163.7
25°	4278.4	4286.9	4305.7	4322.6	4330.1	4333.0	4338.6	4348.0	4347.1	4340.5	4340.5
27.5°	4468.3	4484.3	4507.8	4532.3	4532.3	4522.9	4541.7	4557.7	4552.0	4543.6	4532.3
30°	4698.7	4713.7	4741.0	4774.8	4757.9	4751.3	4776.7	4805.8	4797.4	4783.3	4781.4
32.5°	4946.9	4961.0	4996.7	5033.3	5011.7	5002.3	5029.6	5071.9	5056.9	5028.6	5011.7
35°	5215.7	5229.8	5280.6	5324.8	5288.1	5272.1	5294.7	5340.8	5314.4	5261.8	5248.6
37.5°	5508.1	5515.6	5581.4	5626.6	5601.2	5558.9	5587.1	5620.9	5598.4	5534.4	5509.0
40°	5811.8	5839.0	5915.2	5967.8	5923.6	5856.9	5903.9	5950.9	5917.1	5835.3	5792.0
42.5°	6166.2	6186.9	6288.4	6335.4	6264.0	6169.9	6233.9	6297.8	6264.0	6185.0	6147.4
45°	6534.7	6566.7	6687.9	6734.9	6631.5	6512.1	6590.2	6702.0	6699.2	6585.5	6546.0
47.5°	6936.1	6968.1	7112.9	7174.9	7063.0	6903.2	7013.2	7171.2	7159.9	7034.8	7002.9
50°	7399.6	7433.4	7613.9	7692.0	7587.6	7401.5	7566.9	7706.1	7685.4	7531.2	7534.0
52.5°	7981.5	7979.7	8204.3	8339.7	8232.5	8068.0	8220.3	8355.7	8270.1	8056.7	8050.2
55°	8491.1	8522.1	8800.4	9057.0	9050.4	8987.4	9048.6	9054.2	8809.8	8525.9	8491.1
57.5°	8825.8	8885.0	9277.0	9741.4	10089.3	10172.9	10054.5	9695.4	9122.8	8668.8	8613.3
60°	8619.9	8710.1	9325.9	10272.6	11297.3	11789.0	11120.6	10006.5	8879.3	8246.6	8171.4
62.5°	7230.4	7382.7	8284.2	10015.9	12337.1	13774.5	11893.3	9507.3	7911.0	7039.5	6910.7
65°	4403.5	4564.2	5651.0	8243.8	12168.8	15346.4	11540.8	7891.3	5774.2	4690.2	4551.1
67.5°	1467.5	1514.5	2154.7	4556.7	9563.7	13788.6	9579.7	4724.1	2512.9	1665.9	1617.0
70°	574.4	579.1	683.5	1320.9	4516.3	9470.7	4983.5	1344.4	714.5	565.0	577.2
72.5°	422.1	424.0	453.1	551.8	1177.0	4172.2	1219.3	554.7	440.9	395.8	395.8
75°	339.4	339.4	360.1	402.4	527.4	957.0	534.9	397.7	345.0	315.9	312.1
77.5°	267.9	273.6	289.6	316.8	357.2	460.7	370.4	314.9	278.3	251.0	245.4
80°	199.3	204.9	231.3	244.4	256.6	319.6	273.6	246.3	220.0	188.0	182.4
82.5°	130.7	136.3	169.2	176.7	173.9	208.7	184.3	181.4	161.7	121.3	115.6
85°	85.5	87.4	112.8	117.5	108.1	95.0	117.5	124.1	112.8	79.0	76.1
87.5°	40.4	40.4	57.3	53.6	48.9	39.5	53.6	63.0	63.9	38.5	37.6
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)