

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: P316623

Luminaire Tested: **GLEON-SA9D-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316623  
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-SA9D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53567 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

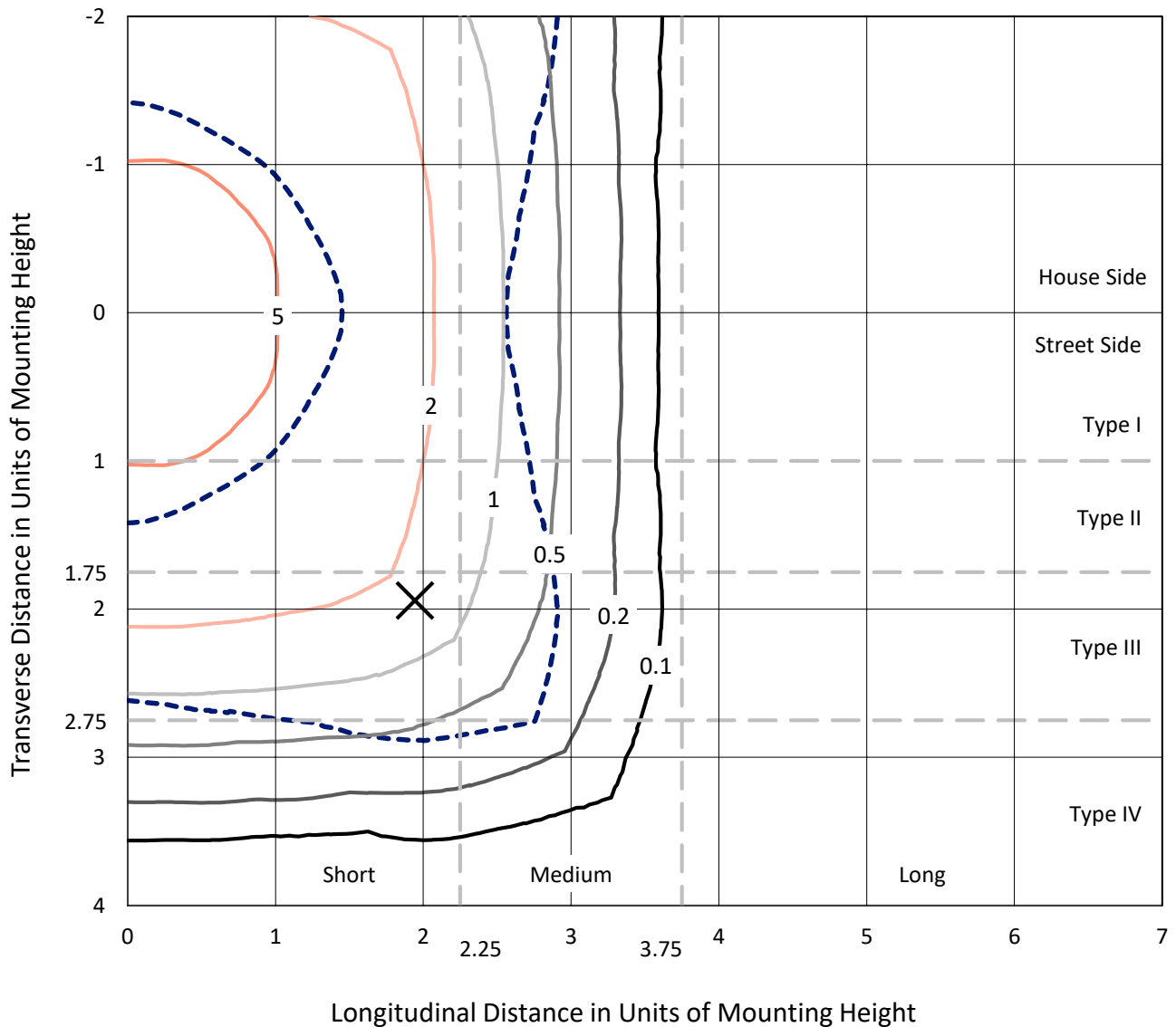
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

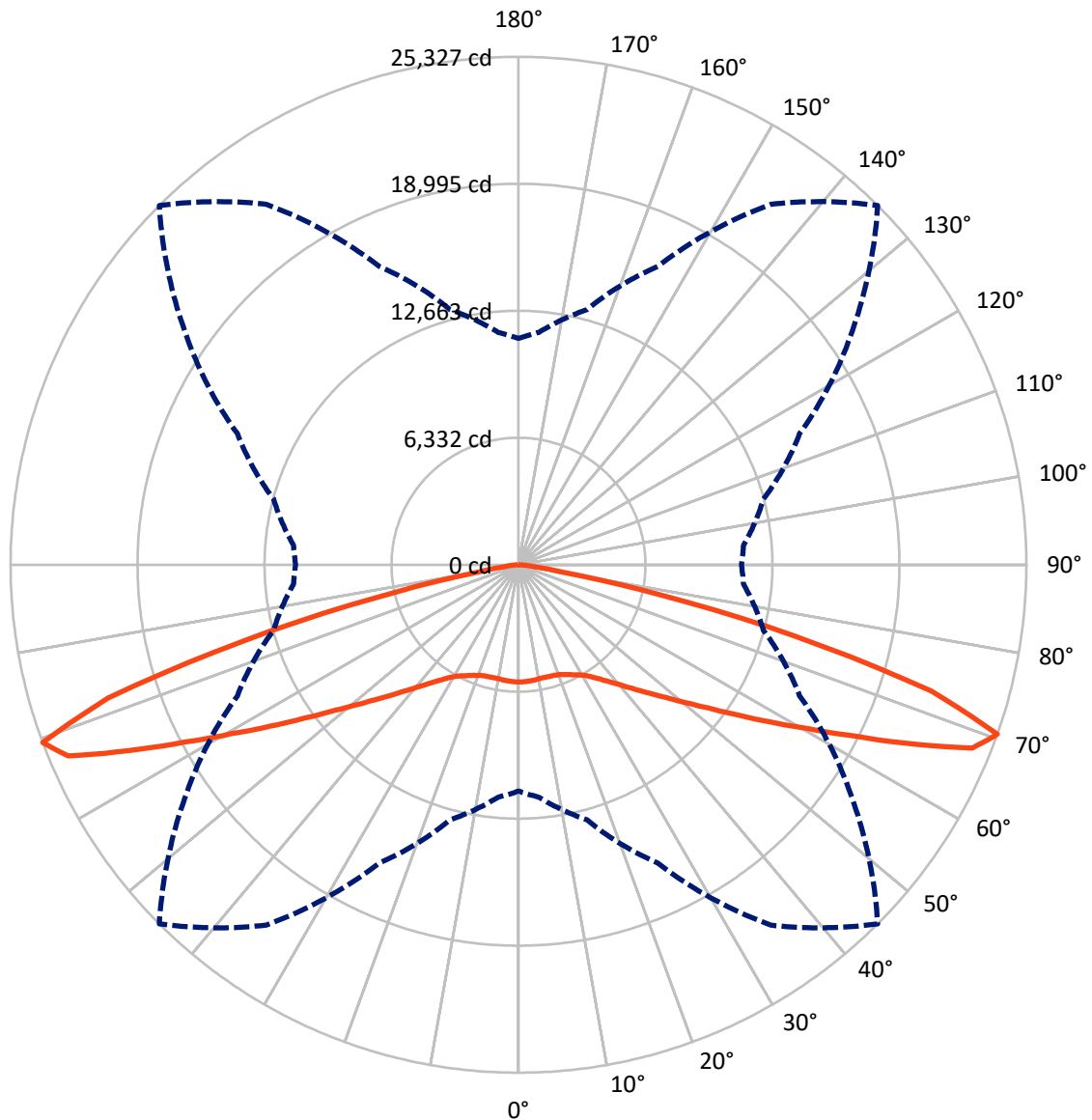
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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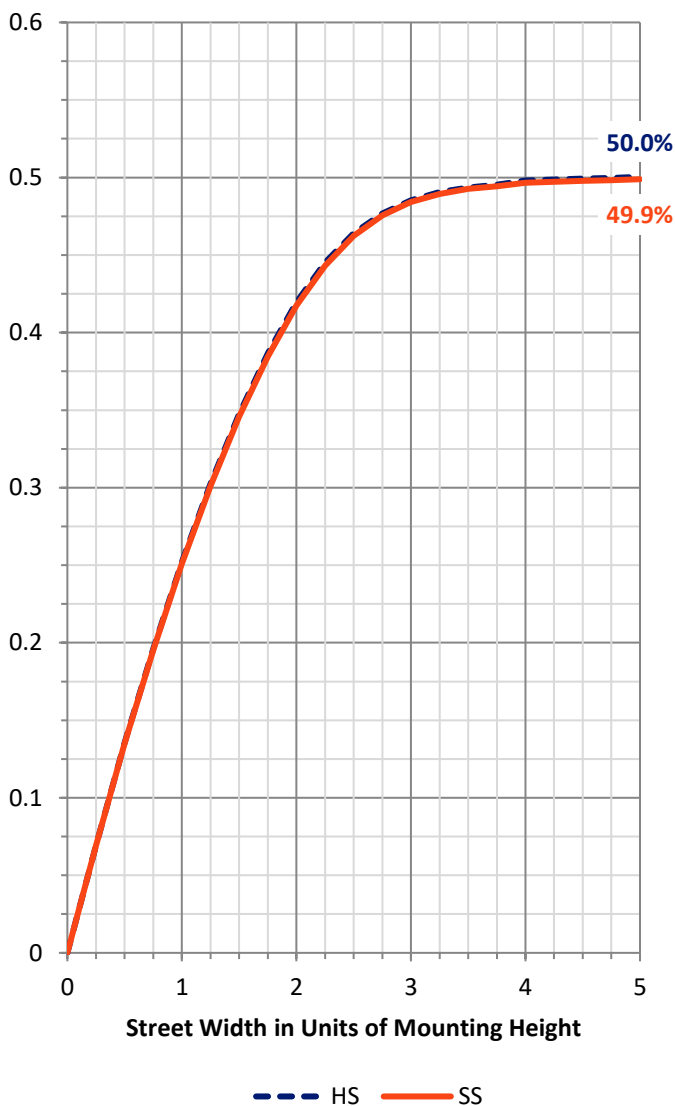
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26783.5	0.0	26783.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26783.5	0.0	26783.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53567.0	0.0	53567.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.1	1.0
10°-20°	1626.7	3.0
20°-30°	2769.1	5.2
30°-40°	4391.8	8.2
40°-50°	7146.8	13.3
50°-60°	11783.8	22.0
60°-70°	17298.9	32.3
70°-80°	7649.5	14.3
80°-90°	346.4	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°	53567.0	100.0
0°-180°	53567.0	100.0

**Coefficient of Utilization**



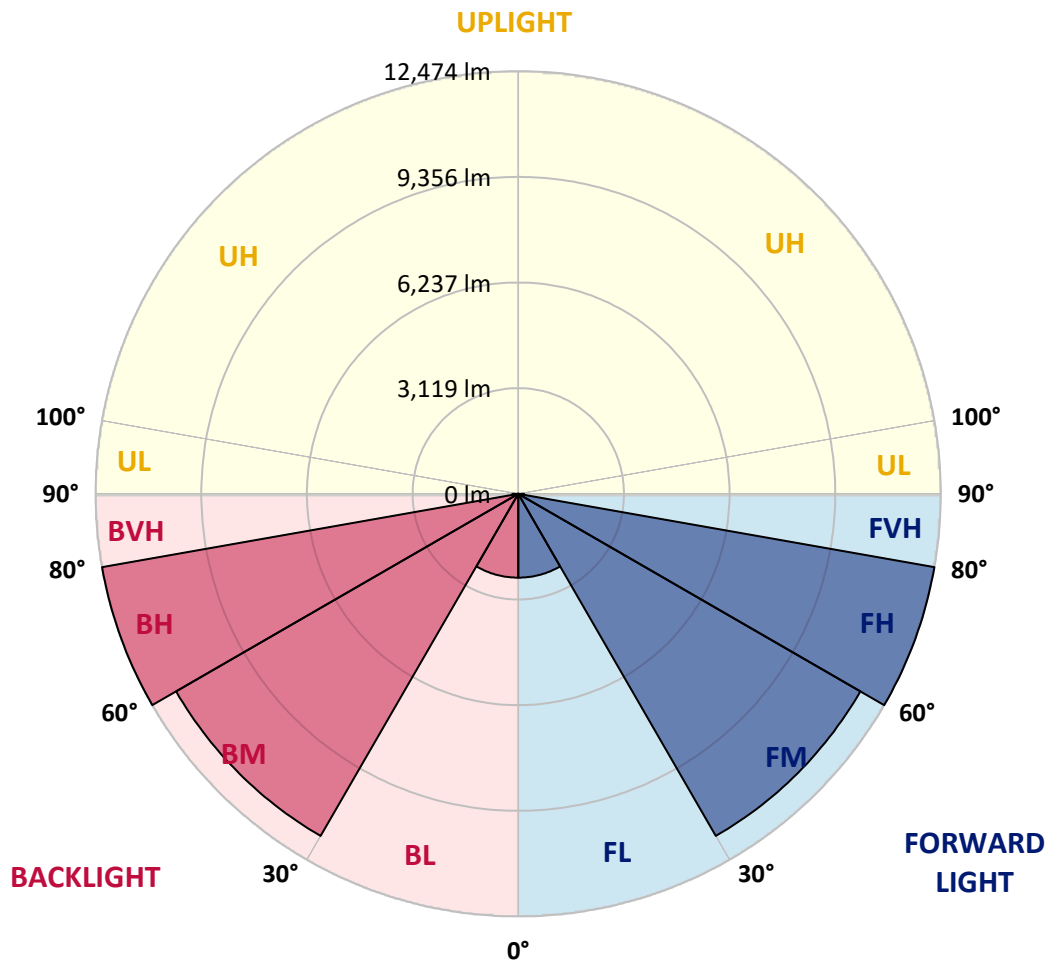
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.9	4.6			
FM (30°-60°)	11661.2	21.8			
FH (60°-80°)	12474.2	23.3			G5
FVH (80°-90°)	173.2	0.3			G2/225
BL (0°-30°)	2474.9	4.6	B3/2500		
BM (30°-60°)	11661.2	21.8	B5		
BH (60°-80°)	12474.2	23.3	B5		G5
BVH (80°-90°)	173.2	0.3			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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5850.4	5850.4	5850.4	5850.4	5850.4	5850.4	5850.4	5850.4	5850.4	5850.4	5850.4
2.5°	5841.5	5836.2	5848.6	5846.8	5836.2	5837.9	5837.9	5843.3	5843.3	5839.7	5839.7
5°	5820.2	5816.7	5830.8	5830.8	5820.2	5823.8	5827.3	5832.6	5830.8	5827.3	5825.5
7.5°	5793.6	5791.8	5806.0	5806.0	5798.9	5802.5	5798.9	5800.7	5797.2	5793.6	5788.3
10°	5749.3	5752.8	5765.3	5768.8	5768.8	5770.6	5767.0	5758.2	5752.8	5747.5	5742.2
12.5°	5708.5	5706.8	5724.5	5733.3	5747.5	5763.5	5752.8	5728.0	5717.4	5706.8	5703.2
15°	5681.9	5683.7	5701.4	5717.4	5742.2	5775.9	5763.5	5724.5	5703.2	5690.8	5687.2
17.5°	5676.6	5680.2	5703.2	5731.6	5758.2	5795.4	5788.3	5749.3	5713.8	5690.8	5685.5
20°	5689.0	5690.8	5726.3	5767.0	5813.1	5848.6	5832.6	5790.1	5742.2	5706.8	5697.9
22.5°	5712.1	5719.2	5763.5	5827.3	5898.2	5946.1	5926.6	5853.9	5779.4	5735.1	5722.7
25°	5784.8	5786.5	5846.8	5933.7	6018.8	6073.7	6050.7	5947.9	5852.1	5802.5	5786.5
27.5°	5935.4	5940.8	6001.0	6102.1	6174.8	6210.2	6196.1	6112.7	6031.2	5978.0	5983.3
30°	6153.5	6160.6	6228.0	6339.7	6384.0	6392.8	6389.3	6350.3	6275.8	6204.9	6210.2
32.5°	6419.4	6423.0	6513.4	6614.4	6649.9	6657.0	6649.9	6614.4	6525.8	6430.1	6435.4
35°	6761.6	6772.2	6859.1	6956.6	6985.0	6999.1	6986.7	6940.6	6848.5	6754.5	6750.9
37.5°	7183.5	7185.3	7275.7	7376.8	7412.2	7415.8	7401.6	7371.4	7256.2	7171.1	7165.8
40°	7672.8	7679.9	7786.3	7894.4	7908.6	7892.7	7912.2	7894.4	7775.6	7678.1	7694.1
42.5°	8268.5	8284.5	8412.1	8518.5	8477.7	8468.8	8481.2	8486.6	8390.8	8272.0	8261.4
45°	8961.7	8975.9	9135.4	9220.5	9193.9	9135.4	9160.2	9202.8	9069.8	8922.7	8936.9
47.5°	9752.4	9787.8	9958.0	10037.8	9972.2	9892.4	9940.3	10004.1	9848.1	9665.5	9656.6
50°	10631.7	10676.0	10902.9	11014.6	10949.0	10801.9	10881.7	10924.2	10699.0	10463.3	10443.8
52.5°	11569.5	11613.8	11899.3	12129.7	12087.2	11858.5	11970.2	11925.8	11667.0	11349.7	11324.9
55°	12631.4	12649.2	12957.6	13329.9	13372.5	13204.1	13197.0	13124.3	12741.4	12374.4	12356.6
57.5°	13723.5	13735.9	14134.8	14574.5	14774.8	14774.8	14576.2	14422.0	13913.2	13487.7	13443.4
60°	14902.4	14946.8	15388.2	15985.6	16453.7	16591.9	16240.9	15820.8	15267.6	14748.2	14696.8
62.5°	15952.0	16003.4	16678.8	17568.8	18320.5	18823.9	17965.9	17281.6	16274.6	15441.4	15343.9
65°	16084.9	16223.2	17207.1	18818.6	20501.0	21506.2	19861.1	18175.1	16340.2	15182.5	15083.3
67.5°	14689.7	14923.7	16253.3	18761.9	22238.4	24396.0	21071.9	17664.5	15163.0	13883.1	13773.1
70°	11287.6	11628.0	13161.5	16411.1	21938.8	25326.7	20313.1	15464.4	12642.1	11264.6	11110.3
72.5°	6192.5	6332.6	7711.8	11238.0	17588.3	21522.2	16943.0	11434.8	8383.7	6821.9	6563.0
75°	1964.3	2013.9	2716.0	4598.7	9949.1	14255.4	10762.9	5612.8	3090.0	2278.1	2251.5
77.5°	872.2	877.6	982.1	1342.0	3426.9	7222.5	4116.5	1528.2	1053.1	920.1	950.2
80°	551.4	551.4	608.1	664.8	932.5	2097.3	1113.3	726.9	620.5	576.2	588.6
82.5°	264.2	292.5	395.3	425.5	512.3	705.6	570.9	475.1	414.8	308.5	287.2
85°	173.7	145.4	250.0	281.9	297.8	338.6	331.5	313.8	271.2	154.2	172.0
87.5°	78.0	74.5	129.4	118.8	111.7	85.1	127.6	157.8	152.5	76.2	76.2
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)