

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: P316303

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
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-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53710 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

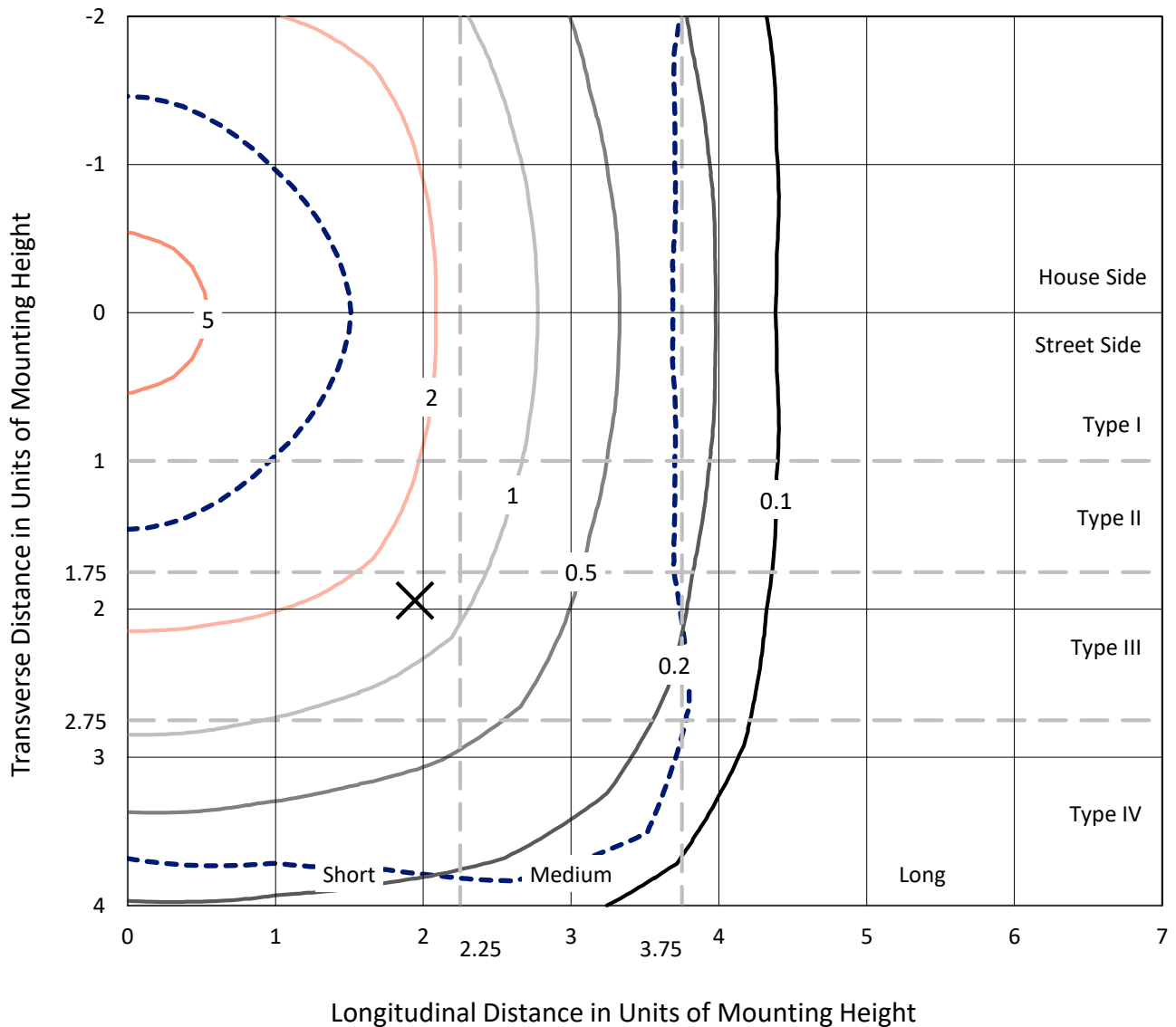
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P316303  
 CATALOG NUMBER: GLEON-SA9D-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

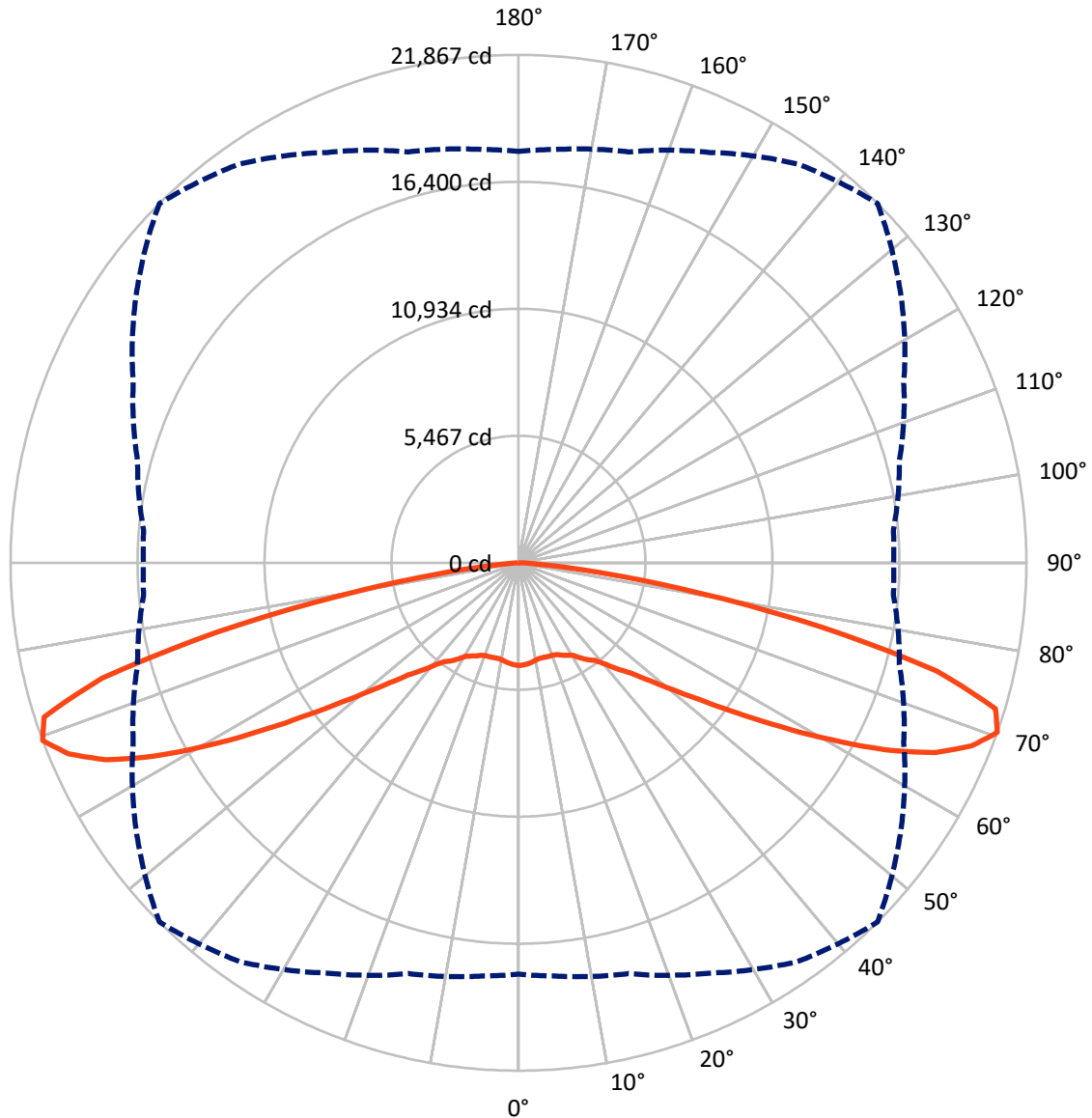
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P316303  
CATALOG NUMBER: GLEON-SA9D-827-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P316303  
 CATALOG NUMBER: GLEON-SA9D-827-U-5WQ

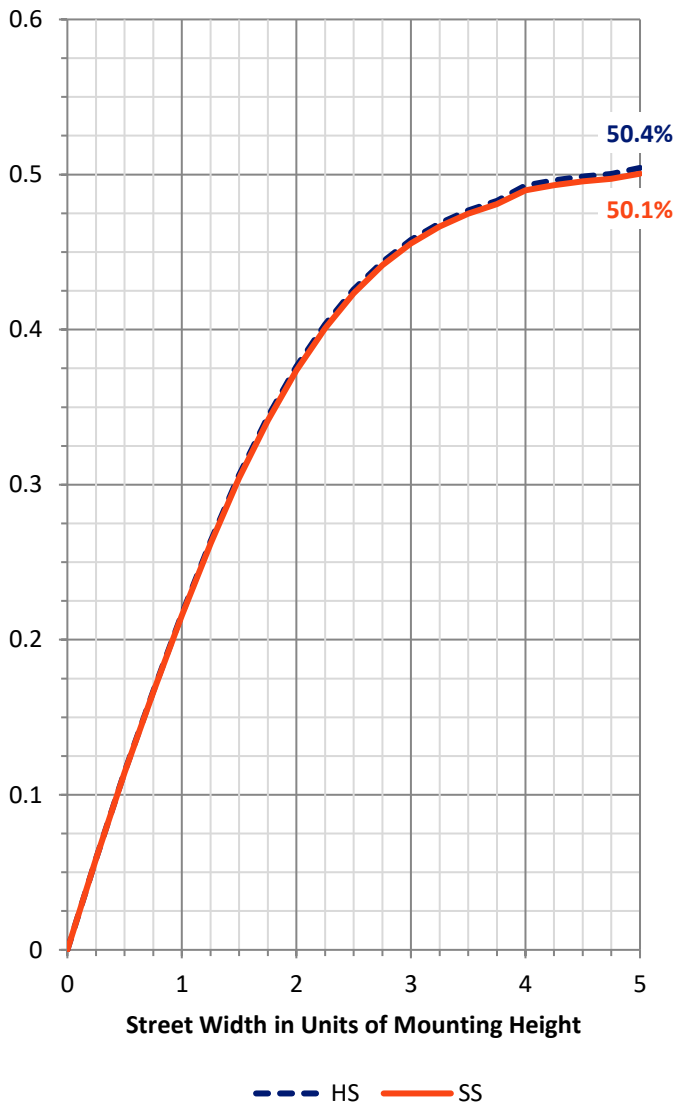
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26855.0	0.0	26855.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26855.0	0.0	26855.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53710.0	0.0	53710.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.6	0.8
10°-20°	1205.1	2.2
20°-30°	2054.7	3.8
30°-40°	3210.5	6.0
40°-50°	5441.1	10.1
50°-60°	9922.2	18.5
60°-70°	17081.7	31.8
70°-80°	13389.3	24.9
80°-90°	992.8	1.8
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°	53710.0	100.0
0°-180°	53710.0	100.0

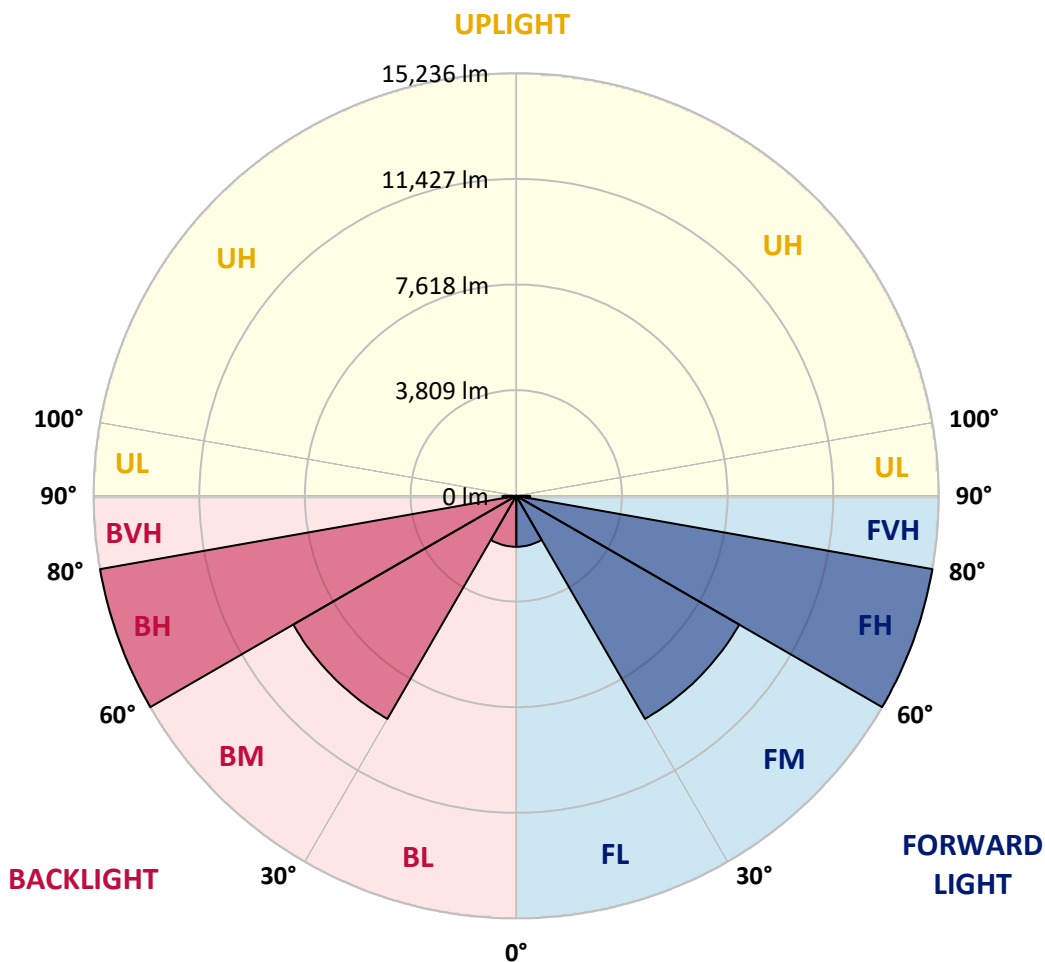


REPORT NUMBER: P316303  
 CATALOG NUMBER: GLEON-SA9D-827-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.2	3.4			
FM (30°-60°)	9286.9	17.3			
FH (60°-80°)	15235.5	28.4			G5
FVH (80°-90°)	496.4	0.9			G3/500
BL (0°-30°)	1836.2	3.4	B3/2500		
BM (30°-60°)	9286.9	17.3	B5		
BH (60°-80°)	15235.5	28.4	B5		G5
BVH (80°-90°)	496.4	0.9			G3/500
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





REPORT NUMBER: P316303  
 CATALOG NUMBER: GLEON-SA9D-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3
2.5°	4400.8	4406.1	4400.8	4404.4	4395.5	4399.0	4399.0	4399.0	4397.2	4399.0	4395.5
5°	4361.7	4365.3	4358.2	4361.7	4356.4	4361.7	4363.5	4361.7	4358.2	4359.9	4352.8
7.5°	4303.1	4306.6	4301.3	4306.6	4299.5	4308.4	4306.6	4301.3	4296.0	4296.0	4288.9
10°	4271.1	4272.9	4258.7	4253.3	4237.3	4240.9	4246.2	4251.6	4256.9	4267.5	4265.8
12.5°	4272.9	4272.9	4251.6	4228.5	4205.4	4210.7	4219.6	4239.1	4260.4	4280.0	4281.8
15°	4290.6	4288.9	4256.9	4219.6	4203.6	4219.6	4224.9	4237.3	4271.1	4304.9	4306.6
17.5°	4303.1	4303.1	4253.3	4210.7	4208.9	4233.8	4232.0	4237.3	4274.7	4324.4	4326.2
20°	4326.2	4326.2	4262.2	4216.0	4216.0	4242.7	4244.5	4253.3	4290.6	4345.7	4354.6
22.5°	4377.7	4379.5	4312.0	4274.7	4278.2	4294.2	4299.5	4313.7	4347.5	4407.9	4418.6
25°	4450.5	4454.1	4384.8	4363.5	4375.9	4406.1	4402.6	4413.2	4450.5	4509.2	4519.8
27.5°	4551.8	4542.9	4479.0	4470.1	4482.5	4503.8	4502.1	4503.8	4534.0	4587.3	4599.8
30°	4683.3	4679.7	4633.5	4638.9	4633.5	4626.4	4628.2	4642.4	4658.4	4701.1	4713.5
32.5°	4811.2	4814.8	4786.3	4813.0	4852.1	4878.7	4837.9	4798.8	4781.0	4804.1	4814.8
35°	5042.2	5051.1	5006.6	4988.9	5042.2	5120.3	5004.9	4940.9	4976.4	5006.6	5015.5
37.5°	5434.8	5440.1	5365.5	5294.5	5255.4	5330.0	5214.5	5219.8	5344.2	5401.1	5399.3
40°	5882.5	5884.3	5834.6	5772.4	5704.9	5722.6	5676.4	5690.7	5772.4	5823.9	5838.1
42.5°	6415.5	6410.2	6332.0	6243.2	6223.7	6241.4	6163.2	6152.6	6246.8	6339.1	6340.9
45°	7106.7	7094.2	6993.0	6895.2	6801.1	6762.0	6742.4	6794.0	6923.7	7008.9	7010.7
47.5°	7851.1	7817.3	7764.0	7685.8	7604.1	7565.0	7533.1	7557.9	7652.1	7685.8	7689.4
50°	8616.8	8623.9	8634.6	8604.4	8574.2	8561.7	8478.2	8430.3	8458.7	8396.5	8387.6
52.5°	9524.7	9538.9	9642.0	9729.0	9780.5	9807.2	9649.1	9483.8	9391.4	9270.6	9235.1
55°	10596.0	10619.1	10770.1	11011.8	11260.5	11392.0	11105.9	10796.8	10510.7	10285.1	10212.3
57.5°	11789.9	11830.8	12038.7	12502.4	13012.3	13323.2	12840.0	12278.5	11726.0	11400.9	11344.0
60°	13190.0	13229.0	13516.9	14181.3	15007.5	15474.7	14742.8	13824.2	13136.7	12825.7	12720.9
62.5°	14856.5	14860.0	15213.6	15990.0	17080.8	17731.1	16739.7	15512.1	14803.2	14428.3	14327.0
65°	16649.1	16658.0	17024.0	17862.6	18990.8	19697.9	18578.6	17299.4	16432.4	15879.8	15801.7
67.5°	17915.9	17953.2	18338.7	19347.9	20403.2	21041.0	19882.6	18436.4	17434.4	16775.3	16709.5
70°	17713.3	17859.0	18312.1	19490.0	20957.5	21867.2	20094.1	18301.4	16979.6	16201.4	16146.3
72.5°	15448.1	15727.0	16331.1	17876.8	20223.8	21476.3	18941.0	16391.5	14895.6	14232.9	14133.4
75°	10519.6	10972.7	11884.1	14113.8	17278.1	18594.6	15945.6	13069.1	11662.0	10745.3	10677.8
77.5°	4690.4	4793.4	5948.3	8515.6	11923.2	13353.4	11585.6	8549.3	6417.3	5118.6	4845.0
80°	1307.6	1323.6	1766.0	3171.3	5967.8	7845.7	6406.7	3331.2	1872.6	1320.1	1243.7
82.5°	415.7	451.3	550.8	822.6	2005.9	3580.0	2059.2	888.3	632.5	504.6	454.8
85°	202.5	200.8	278.9	334.0	511.7	792.4	545.4	412.2	360.7	239.8	216.8
87.5°	85.3	87.1	129.7	117.3	149.2	127.9	175.9	184.8	193.7	106.6	92.4
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)