

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: P316621

Luminaire Tested: **GLEON-SA7D-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316621  
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-SA7D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 42382 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

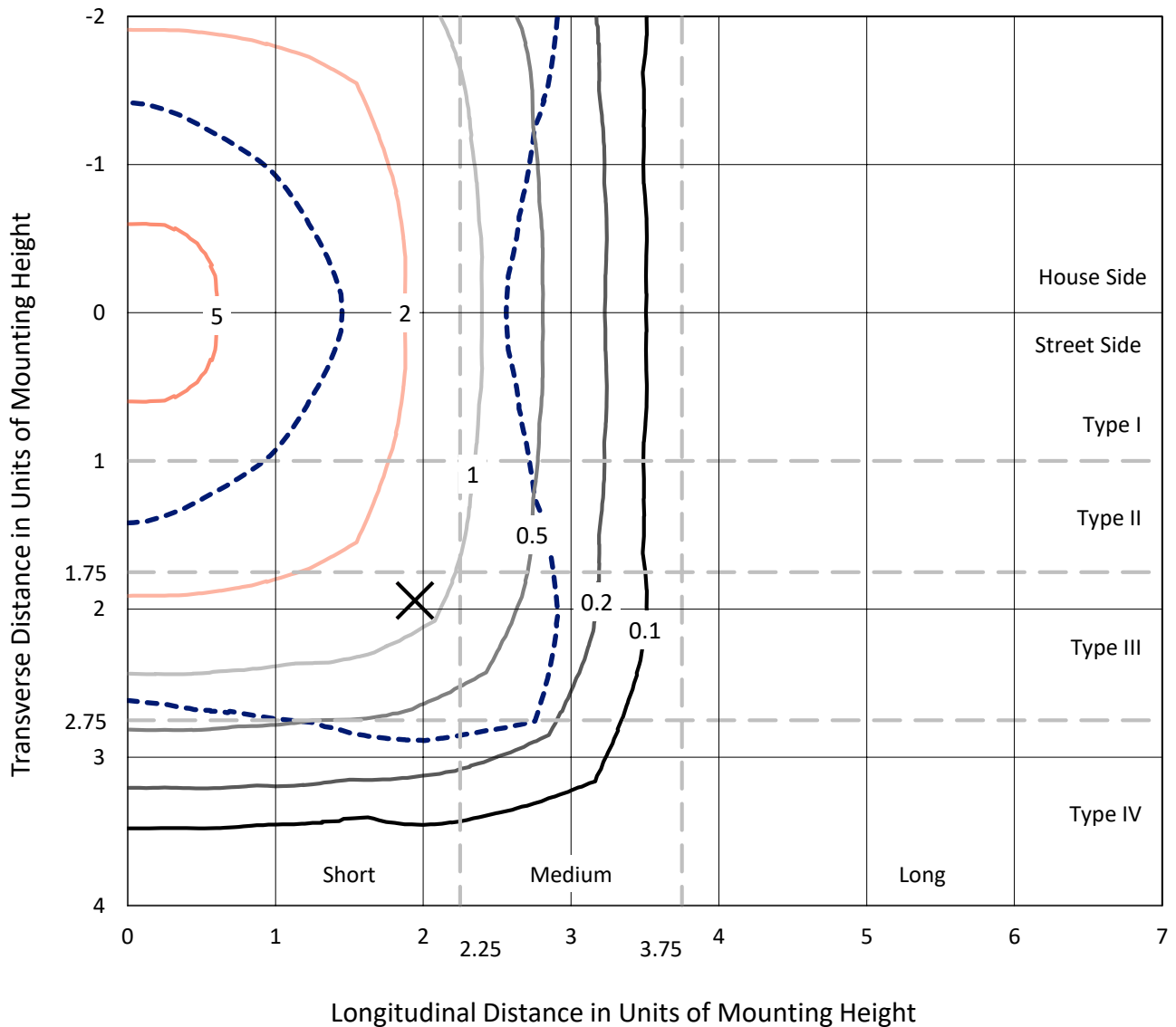
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

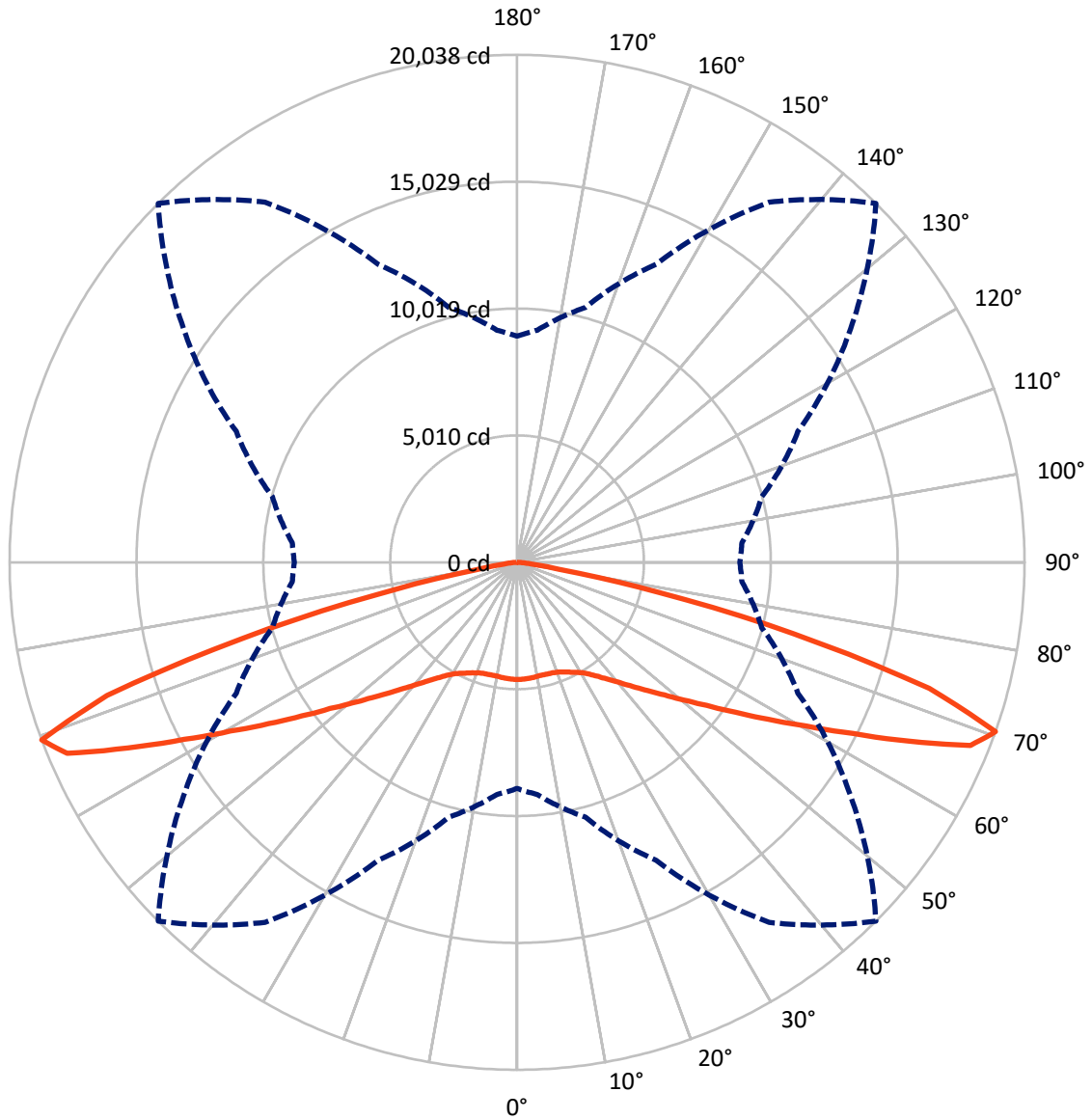
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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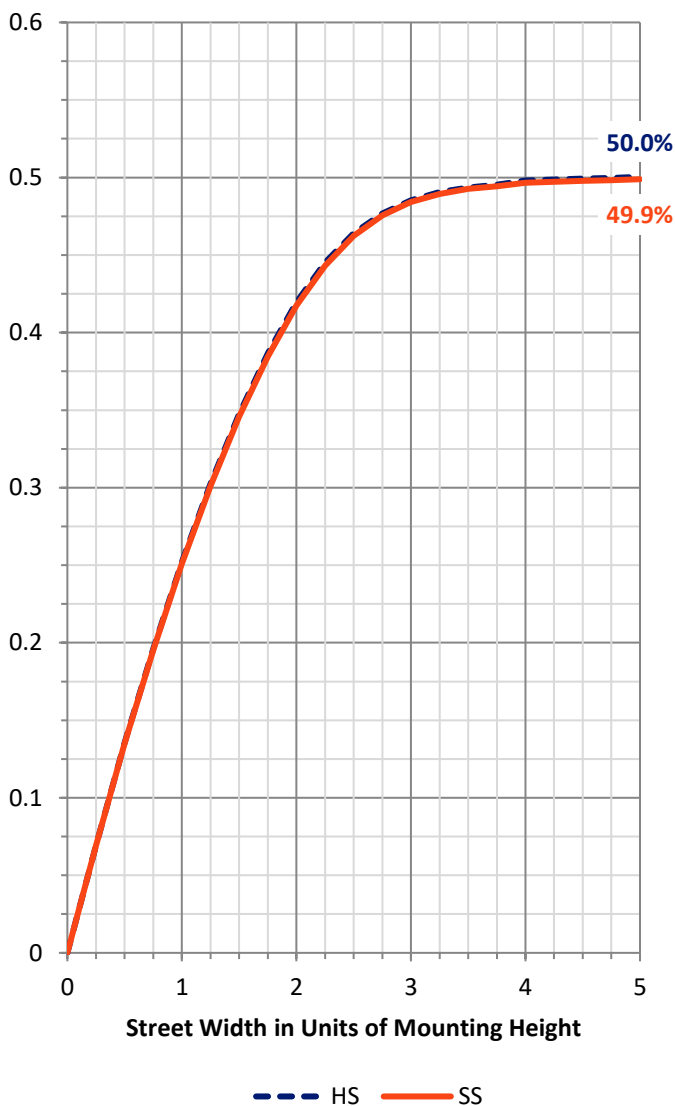
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21191.0	0.0	21191.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21191.0	0.0	21191.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42382.0	0.0	42382.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.4	1.0
10°-20°	1287.0	3.0
20°-30°	2190.9	5.2
30°-40°	3474.8	8.2
40°-50°	5654.5	13.3
50°-60°	9323.3	22.0
60°-70°	13686.8	32.3
70°-80°	6052.3	14.3
80°-90°	274.1	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°	42382.0	100.0
0°-180°	42382.0	100.0

**Coefficient of Utilization**



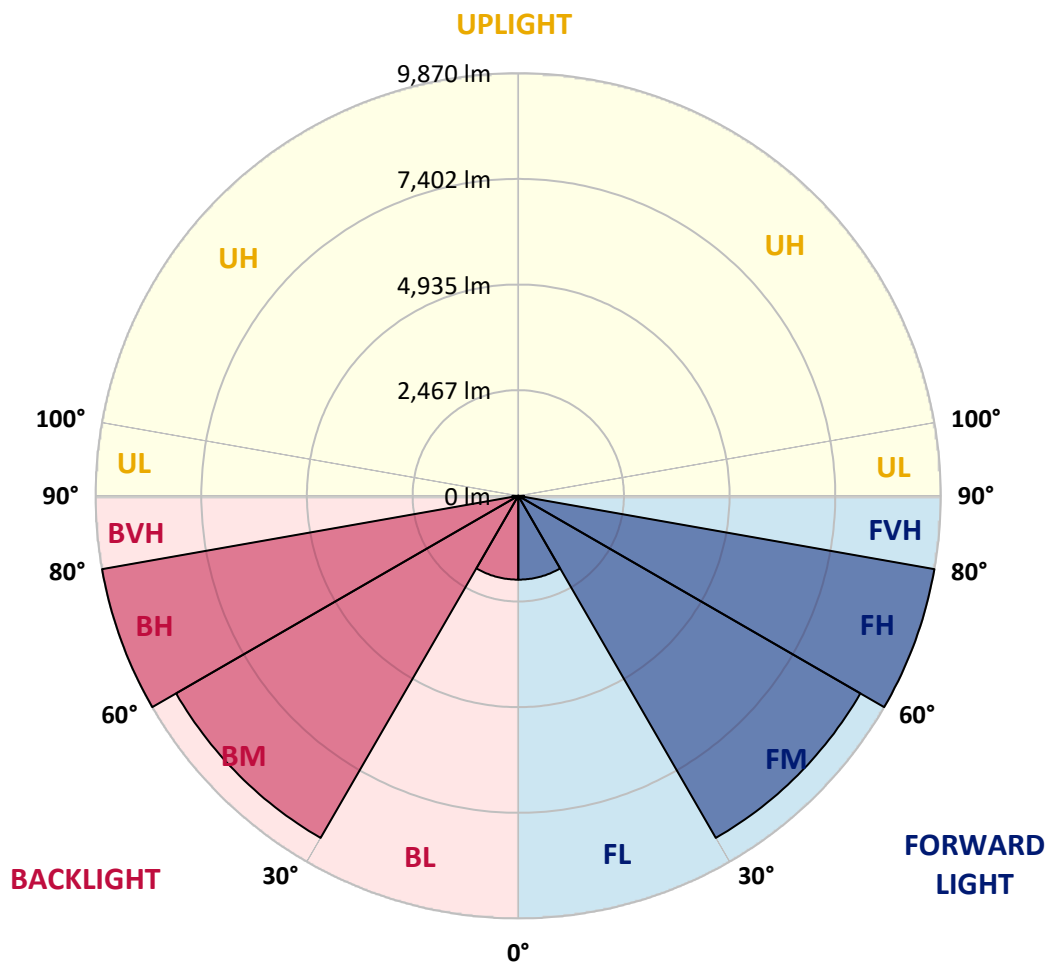
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.2	4.6			
FM (30°-60°)	9226.3	21.8			
FH (60°-80°)	9869.5	23.3			G4/12000
FVH (80°-90°)	137.0	0.3			G2/225
BL (0°-30°)	1958.2	4.6	B3/2500		
BM (30°-60°)	9226.3	21.8	B5		
BH (60°-80°)	9869.5	23.3	B5		G4/12000
BVH (80°-90°)	137.0	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4628.8	4628.8	4628.8	4628.8	4628.8	4628.8	4628.8	4628.8	4628.8	4628.8	4628.8
2.5°	4621.8	4617.6	4627.4	4626.0	4617.6	4619.0	4619.0	4623.2	4623.2	4620.4	4620.4
5°	4604.9	4602.1	4613.3	4613.3	4604.9	4607.7	4610.5	4614.7	4613.3	4610.5	4609.1
7.5°	4583.9	4582.5	4593.7	4593.7	4588.1	4590.9	4588.1	4589.5	4586.7	4583.9	4579.7
10°	4548.8	4551.6	4561.4	4564.3	4564.3	4565.7	4562.8	4555.8	4551.6	4547.4	4543.2
12.5°	4516.6	4515.2	4529.2	4536.2	4547.4	4560.0	4551.6	4532.0	4523.6	4515.2	4512.4
15°	4495.5	4496.9	4511.0	4523.6	4543.2	4569.9	4560.0	4529.2	4512.4	4502.5	4499.7
17.5°	4491.3	4494.1	4512.4	4534.8	4555.8	4585.3	4579.7	4548.8	4520.8	4502.5	4498.3
20°	4501.1	4502.5	4530.6	4562.8	4599.3	4627.4	4614.7	4581.1	4543.2	4515.2	4508.1
22.5°	4519.4	4525.0	4560.0	4610.5	4666.6	4704.5	4689.1	4631.6	4572.7	4537.6	4527.8
25°	4576.9	4578.3	4626.0	4694.7	4762.0	4805.5	4787.3	4705.9	4630.2	4590.9	4578.3
27.5°	4696.1	4700.3	4748.0	4828.0	4885.5	4913.5	4902.3	4836.4	4771.8	4729.8	4734.0
30°	4868.6	4874.2	4927.5	5015.9	5051.0	5058.0	5055.2	5024.3	4965.4	4909.3	4913.5
32.5°	5079.0	5081.8	5153.4	5233.3	5261.4	5267.0	5261.4	5233.3	5163.2	5087.4	5091.7
35°	5349.7	5358.2	5426.9	5504.0	5526.5	5537.7	5527.9	5491.4	5418.5	5344.1	5341.3
37.5°	5683.6	5685.0	5756.5	5836.5	5864.5	5867.3	5856.1	5832.3	5741.1	5673.8	5669.5
40°	6070.7	6076.3	6160.5	6246.0	6257.3	6244.6	6260.1	6246.0	6152.1	6074.9	6087.5
42.5°	6542.0	6554.6	6655.6	6739.8	6707.5	6700.5	6710.3	6714.5	6638.8	6544.8	6536.4
45°	7090.4	7101.7	7227.9	7295.2	7274.2	7227.9	7247.5	7281.2	7176.0	7059.6	7070.8
47.5°	7716.0	7744.1	7878.7	7941.9	7890.0	7826.8	7864.7	7915.2	7791.8	7647.3	7640.3
50°	8411.7	8446.8	8626.4	8714.7	8662.8	8546.4	8609.5	8643.2	8465.0	8278.5	8263.1
52.5°	9153.8	9188.8	9414.6	9597.0	9563.3	9382.4	9470.8	9435.7	9230.9	8979.8	8960.2
55°	9993.9	10008.0	10252.0	10546.6	10580.3	10447.0	10441.4	10383.9	10080.9	9790.6	9776.5
57.5°	10858.0	10867.8	11183.4	11531.3	11689.8	11689.8	11532.7	11410.6	11008.1	10671.4	10636.4
60°	11790.7	11825.8	12175.1	12647.8	13018.1	13127.5	12849.8	12517.3	12079.7	11668.7	11628.0
62.5°	12621.1	12661.8	13196.2	13900.3	14495.1	14893.4	14214.5	13673.1	12876.4	12217.2	12140.0
65°	12726.3	12835.7	13614.2	14889.2	16220.3	17015.7	15714.0	14380.1	12928.3	12012.4	11933.8
67.5°	11622.4	11807.6	12859.6	14844.3	17595.0	19302.0	16672.0	13976.1	11996.9	10984.2	10897.3
70°	8930.7	9200.0	10413.3	12984.4	17357.9	20038.4	16071.7	12235.4	10002.4	8912.5	8790.5
72.5°	4899.5	5010.3	6101.6	8891.5	13915.8	17028.3	13405.2	9047.1	6633.2	5397.4	5192.6
75°	1554.1	1593.4	2148.9	3638.5	7871.7	11278.8	8515.5	4440.8	2444.8	1802.4	1781.4
77.5°	690.1	694.3	777.1	1061.8	2711.3	5714.4	3257.0	1209.1	833.2	728.0	751.8
80°	436.2	436.2	481.1	526.0	737.8	1659.3	880.9	575.1	490.9	455.9	465.7
82.5°	209.0	231.4	312.8	336.6	405.4	558.3	451.7	375.9	328.2	244.1	227.2
85°	137.5	115.0	197.8	223.0	235.6	267.9	262.3	248.3	214.6	122.0	136.1
87.5°	61.7	58.9	102.4	94.0	88.4	67.3	101.0	124.8	120.6	60.3	60.3
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)