

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: P316940

Luminaire Tested: **GLEON-SA6D-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316940  
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-SA6D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35190 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

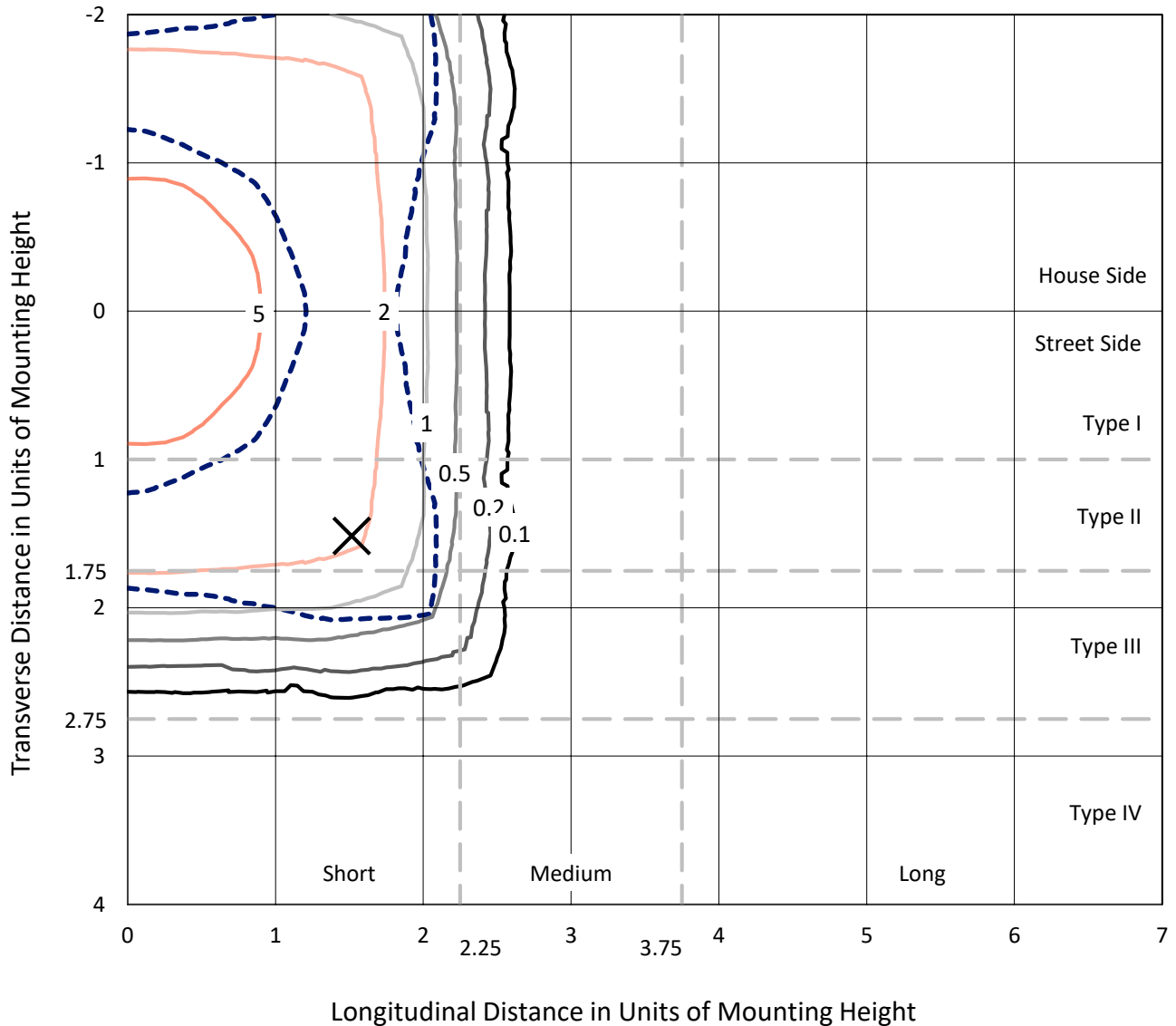
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

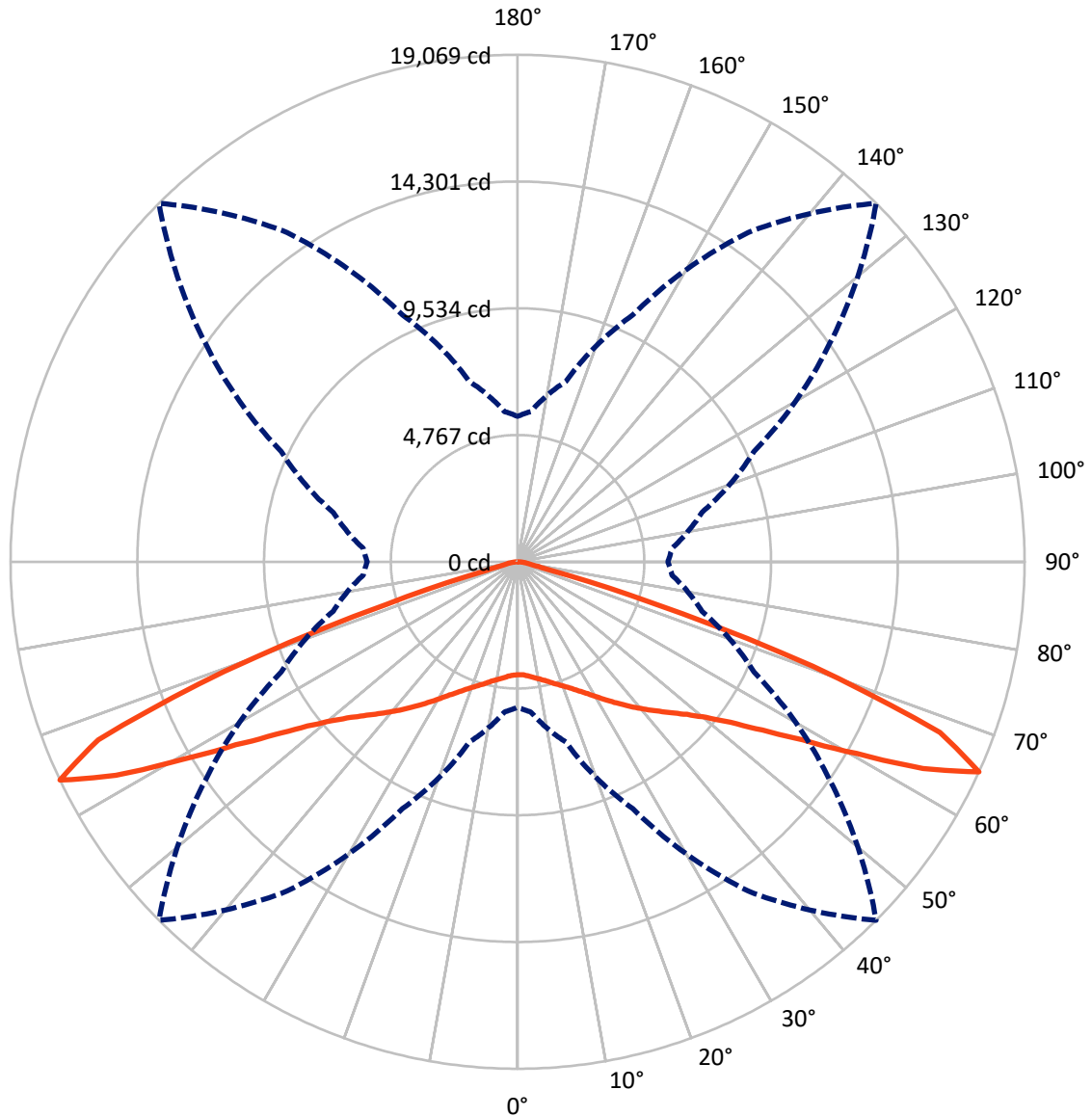
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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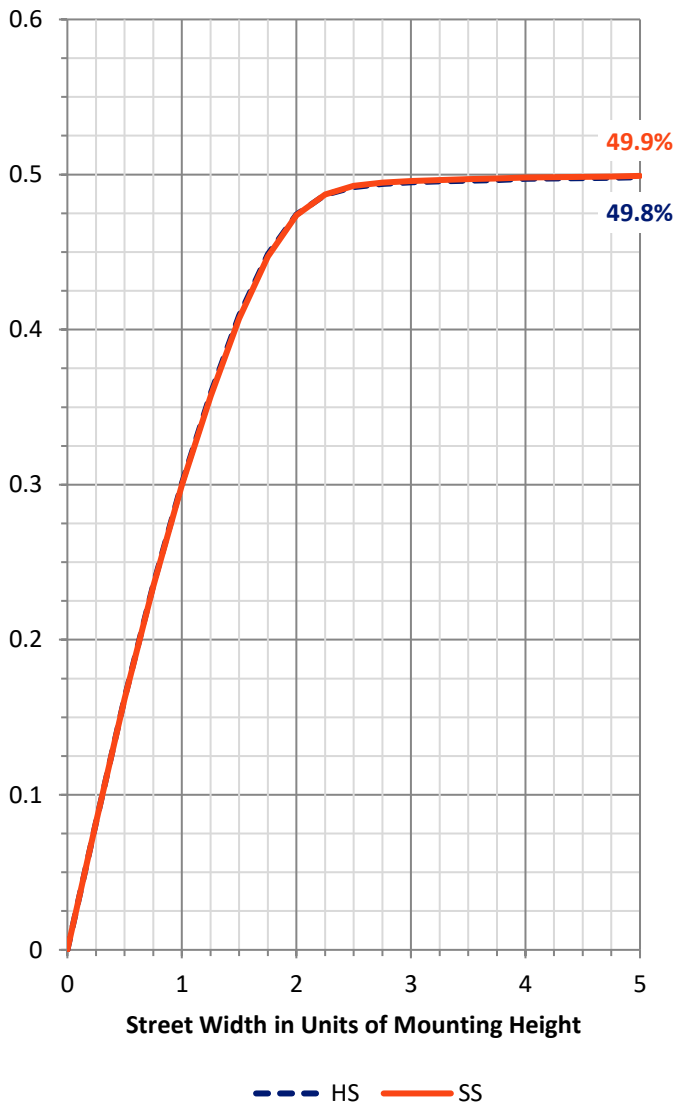
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17595.0	0.0	17595.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17595.0	0.0	17595.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35190.0	0.0	35190.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.9	1.2
10°-20°	1340.2	3.8
20°-30°	2514.4	7.1
30°-40°	4158.4	11.8
40°-50°	6440.7	18.3
50°-60°	9878.3	28.1
60°-70°	9217.5	26.2
70°-80°	1072.8	3.0
80°-90°	150.7	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°	35190.0	100.0
0°-180°	35190.0	100.0

**Coefficient of Utilization**



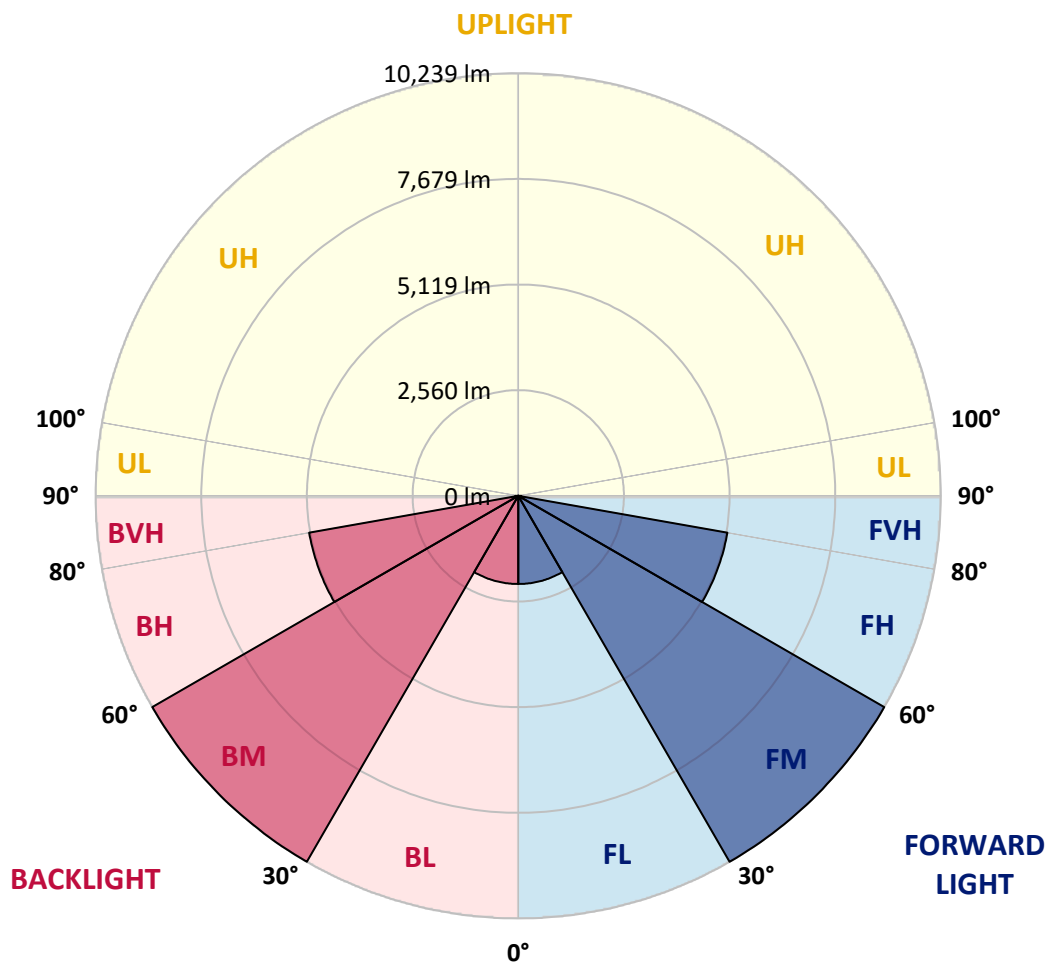
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.8	6.1			
FM (30°-60°)	10238.7	29.1			
FH (60°-80°)	5145.2	14.6			G3/7500
FVH (80°-90°)	75.4	0.2			G1/100
BL (0°-30°)	2135.8	6.1	B3/2500		
BM (30°-60°)	10238.7	29.1	B5		
BH (60°-80°)	5145.2	14.6	B5		G3/7500
BVH (80°-90°)	75.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4249.6	4249.6	4249.6	4249.6	4249.6	4249.6	4249.6	4249.6	4249.6	4249.6	4249.6
2.5°	4263.7	4261.3	4263.7	4264.8	4257.8	4261.3	4260.2	4266.0	4268.3	4266.0	4266.0
5°	4312.7	4309.2	4313.9	4319.7	4310.4	4312.7	4309.2	4316.2	4318.6	4313.9	4317.4
7.5°	4380.5	4381.6	4386.3	4396.8	4391.0	4395.7	4388.6	4389.8	4388.6	4381.6	4382.8
10°	4454.1	4455.2	4463.4	4477.4	4479.8	4479.8	4475.1	4471.6	4466.9	4462.2	4463.4
12.5°	4542.8	4548.7	4554.5	4572.0	4572.0	4581.4	4579.0	4569.7	4561.5	4554.5	4554.5
15°	4663.2	4662.0	4669.0	4686.5	4694.7	4709.9	4709.9	4697.0	4686.5	4679.5	4677.2
17.5°	4789.3	4792.8	4797.5	4818.5	4831.4	4848.9	4851.2	4840.7	4833.7	4824.4	4818.5
20°	4936.5	4942.3	4961.0	4969.2	4980.9	4997.2	5003.1	5000.7	4993.7	4989.1	4990.2
22.5°	5108.2	5123.4	5135.1	5146.8	5160.8	5172.5	5178.3	5186.5	5179.5	5176.0	5173.6
25°	5316.1	5326.6	5350.0	5371.0	5380.4	5383.9	5390.9	5402.6	5401.4	5393.2	5393.2
27.5°	5552.1	5572.0	5601.2	5631.5	5631.5	5619.8	5643.2	5663.1	5656.1	5645.5	5631.5
30°	5838.3	5857.0	5890.9	5932.9	5911.9	5903.7	5935.2	5971.5	5960.9	5943.4	5941.1
32.5°	6146.7	6164.2	6208.6	6254.1	6227.3	6215.6	6249.5	6302.0	6283.3	6248.3	6227.3
35°	6480.8	6498.3	6561.4	6616.3	6570.7	6550.8	6578.9	6636.1	6603.4	6538.0	6521.6
37.5°	6844.0	6853.4	6935.2	6991.2	6959.7	6907.1	6942.2	6984.2	6956.2	6876.8	6845.2
40°	7221.3	7255.2	7349.8	7415.3	7360.4	7277.4	7335.8	7394.2	7352.2	7250.6	7196.8
42.5°	7661.7	7687.4	7813.6	7872.0	7783.2	7666.4	7745.8	7825.3	7783.2	7685.1	7638.4
45°	8119.6	8159.4	8310.0	8368.4	8240.0	8091.6	8188.6	8327.6	8324.1	8182.7	8133.7
47.5°	8618.4	8658.1	8838.0	8915.1	8776.1	8577.5	8714.2	8910.5	8896.4	8741.1	8701.4
50°	9194.3	9236.4	9460.6	9557.6	9427.9	9196.6	9402.2	9575.1	9549.4	9357.8	9361.4
52.5°	9917.4	9915.0	10194.2	10362.4	10229.3	10024.8	10214.1	10382.3	10276.0	10010.8	10002.7
55°	10550.5	10589.1	10934.8	11253.7	11245.5	11167.3	11243.2	11250.2	10946.5	10593.7	10550.5
57.5°	10966.4	11039.9	11527.1	12104.1	12536.3	12640.3	12493.1	12046.9	11335.5	10771.3	10702.4
60°	10710.5	10822.7	11587.8	12764.1	14037.4	14648.3	13817.7	12433.5	11032.9	10246.8	10153.3
62.5°	8984.0	9173.3	10293.5	12445.2	15329.3	17115.4	14777.9	11813.2	9829.8	8746.9	8586.9
65°	5471.5	5671.2	7021.6	10243.3	15120.2	19068.5	14339.9	9805.2	7174.6	5827.8	5654.9
67.5°	1823.4	1881.8	2677.3	5661.9	11883.3	17132.9	11903.2	5869.8	3122.4	2069.9	2009.2
70°	713.7	719.6	849.2	1641.2	5611.7	11767.7	6192.2	1670.4	887.8	702.0	717.2
72.5°	524.5	526.8	563.0	685.7	1462.5	5184.1	1515.1	689.2	547.9	491.8	491.8
75°	421.7	421.7	447.4	500.0	655.3	1189.2	664.7	494.1	428.7	392.5	387.8
77.5°	332.9	339.9	359.8	393.7	443.9	572.4	460.2	391.3	345.8	311.9	304.9
80°	247.6	254.7	287.4	303.7	318.9	397.2	339.9	306.0	273.3	233.6	226.6
82.5°	162.4	169.4	210.3	219.6	216.1	259.3	229.0	225.4	200.9	150.7	143.7
85°	106.3	108.6	140.2	146.0	134.3	118.0	146.0	154.2	140.2	98.1	94.6
87.5°	50.2	50.2	71.3	66.6	60.7	49.1	66.6	78.3	79.4	47.9	46.7
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)