

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: P316944

Luminaire Tested: **GLEON-SA0D-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316944  
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-SA0D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 58237 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

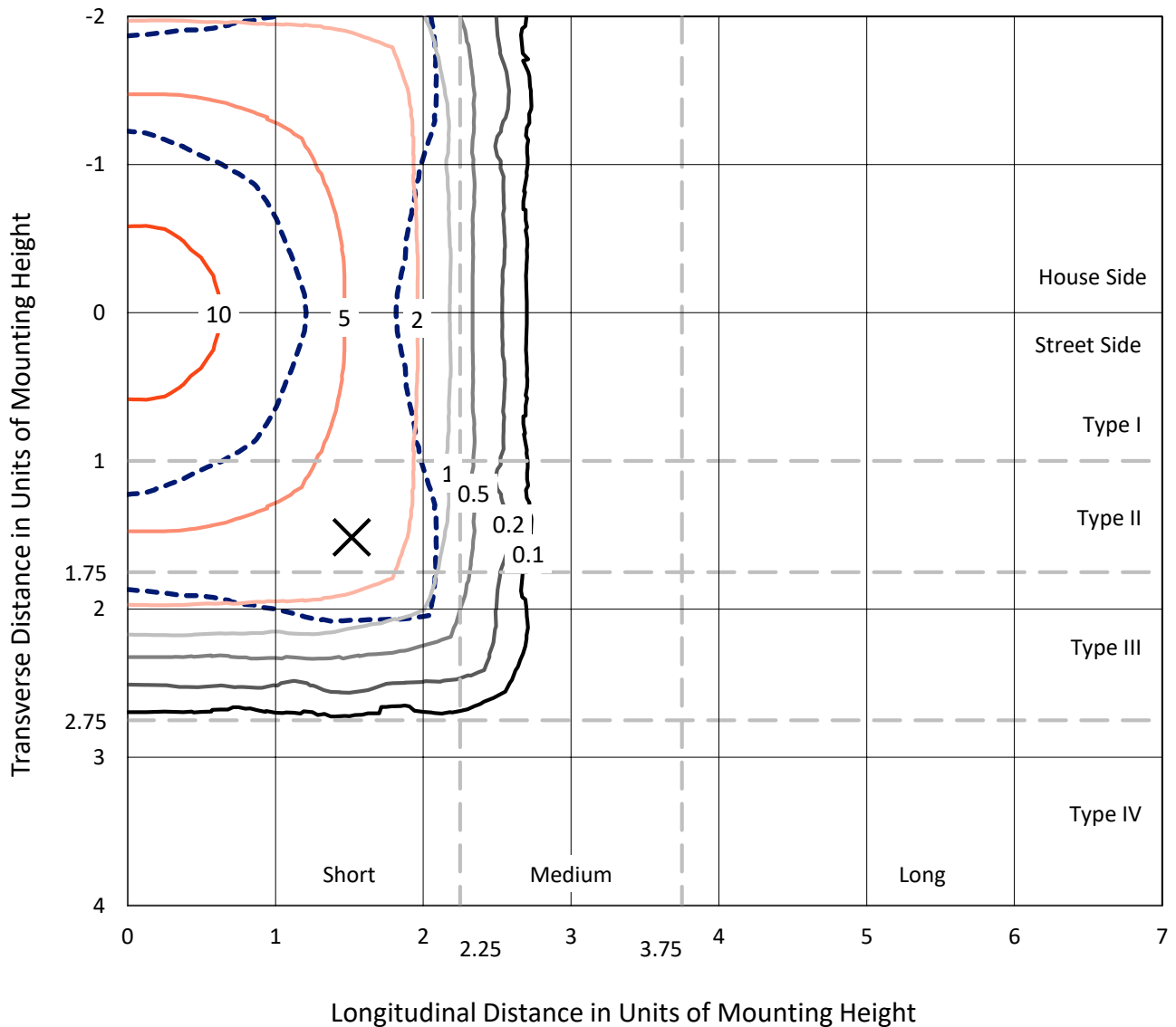
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

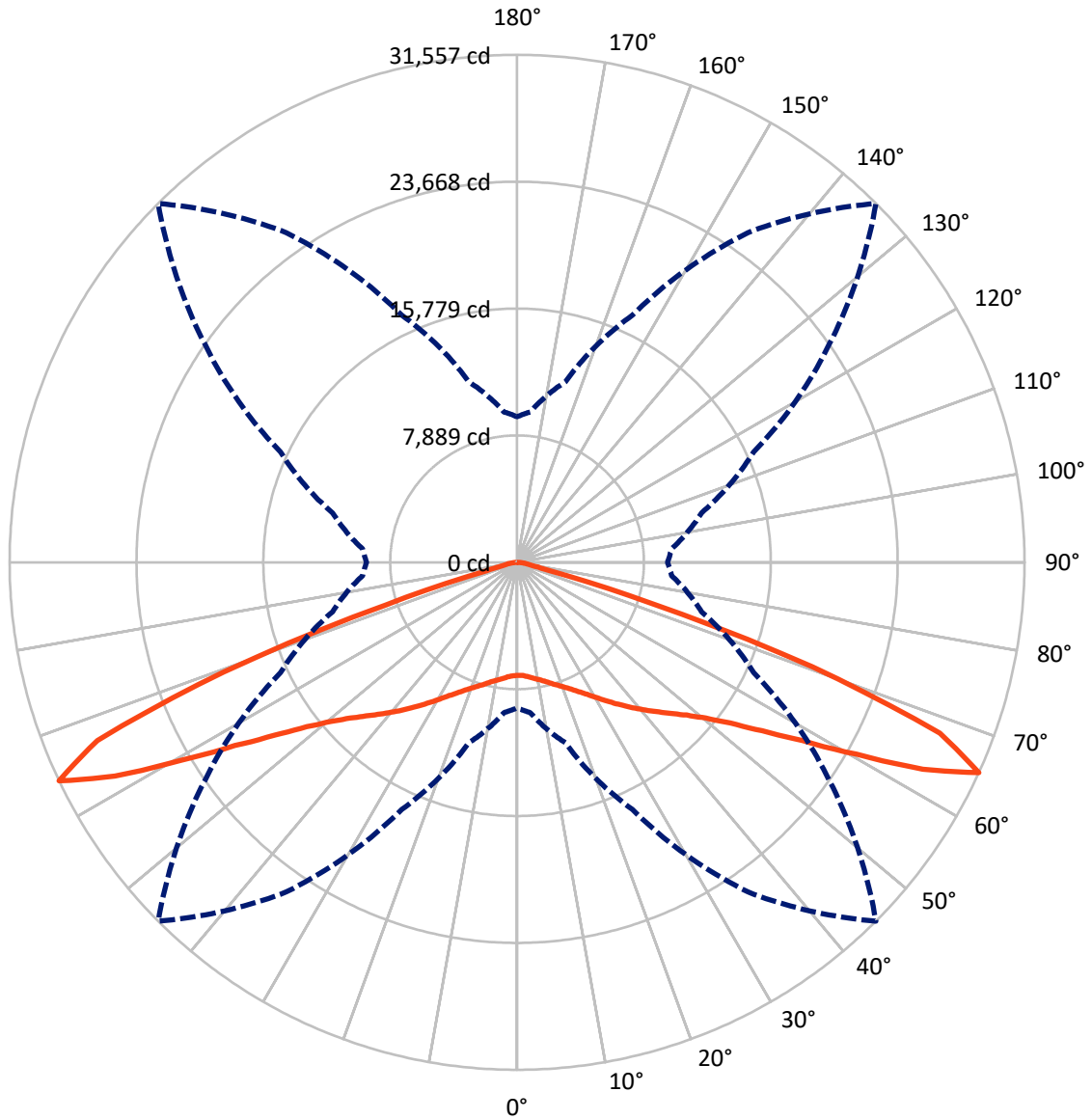
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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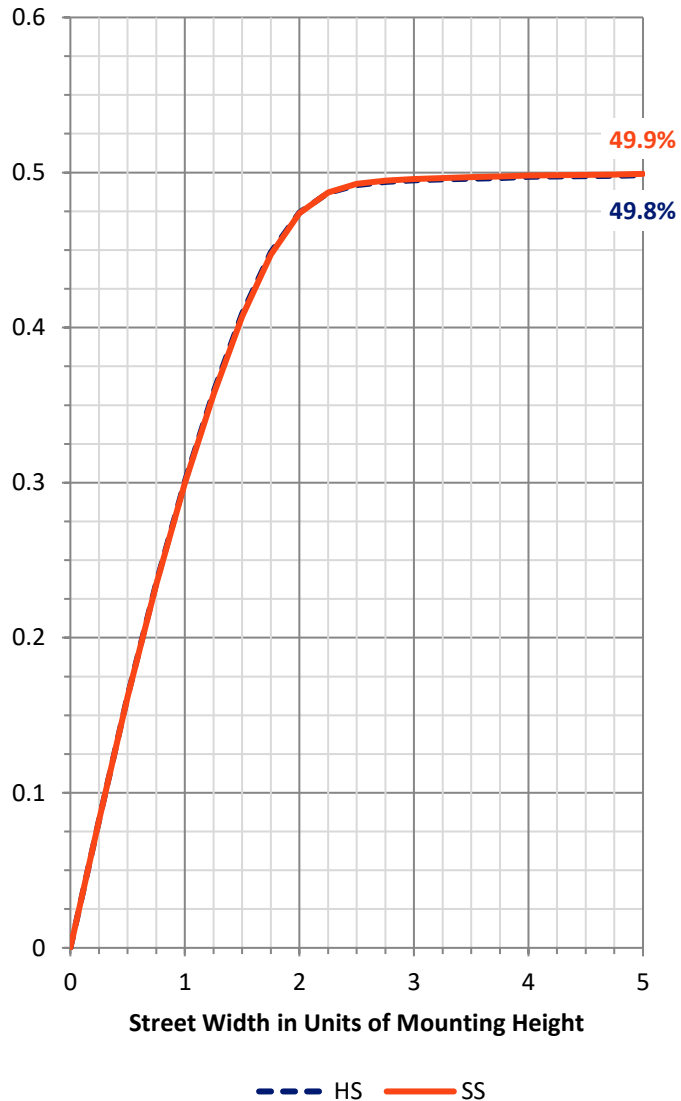
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29118.5	0.0	29118.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29118.5	0.0	29118.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	58237.0	0.0	58237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.0	1.2
10°-20°	2217.9	3.8
20°-30°	4161.2	7.1
30°-40°	6881.8	11.8
40°-50°	10659.0	18.3
50°-60°	16347.9	28.1
60°-70°	15254.4	26.2
70°-80°	1775.4	3.0
80°-90°	249.5	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°	58237.0	100.0
0°-180°	58237.0	100.0

**Coefficient of Utilization**

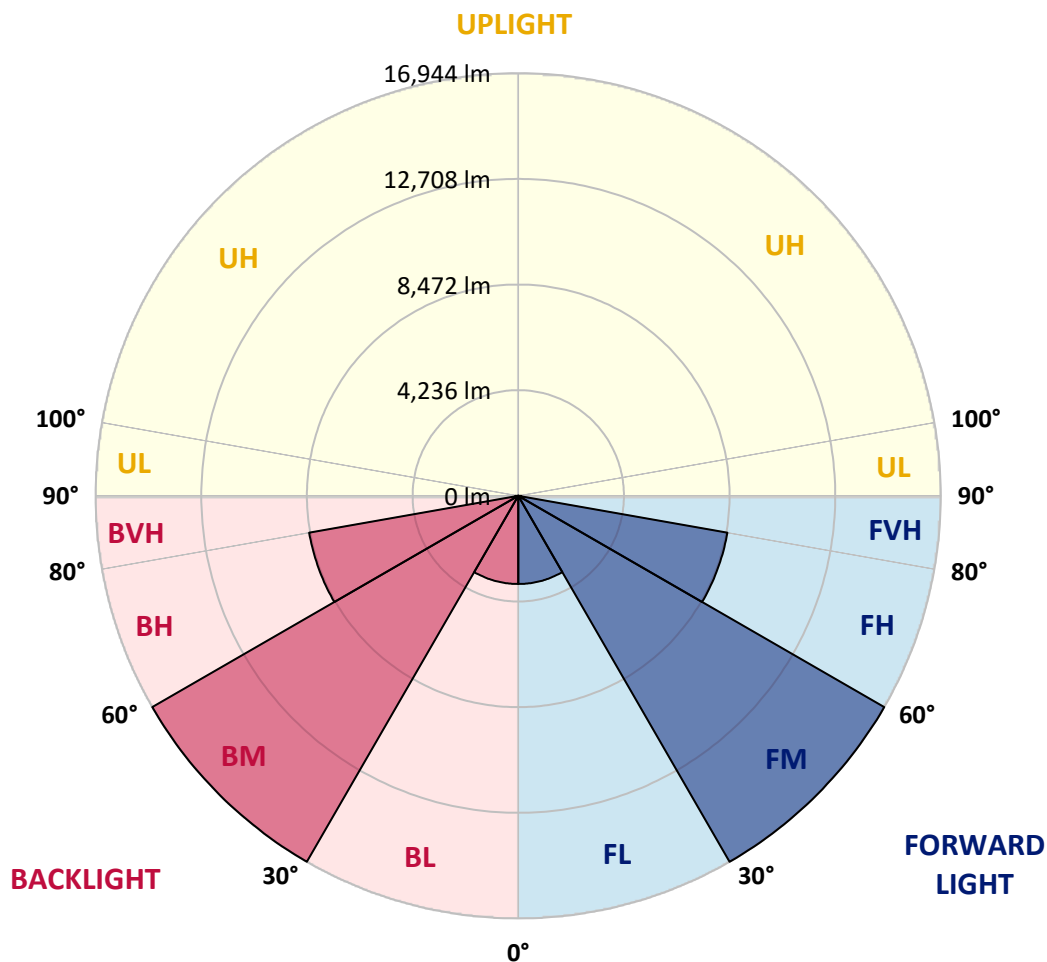


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3534.6	6.1			
FM (30°-60°)	16944.3	29.1			
FH (60°-80°)	8514.9	14.6			G4/12000
FVH (80°-90°)	124.7	0.2			G2/225
BL (0°-30°)	3534.6	6.1	B4/5000		
BM (30°-60°)	16944.3	29.1	B5		
BH (60°-80°)	8514.9	14.6	B5		G4/12000
BVH (80°-90°)	124.7	0.2			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°	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9
2.5°	7056.1	7052.2	7056.1	7058.0	7046.4	7052.2	7050.3	7059.9	7063.8	7059.9	7059.9
5°	7137.2	7131.4	7139.2	7148.8	7133.4	7137.2	7131.4	7143.0	7146.9	7139.2	7145.0
7.5°	7249.4	7251.3	7259.0	7276.4	7266.8	7274.5	7262.9	7264.8	7262.9	7251.3	7253.2
10°	7371.2	7373.1	7386.6	7409.8	7413.7	7413.7	7406.0	7400.2	7392.4	7384.7	7386.6
12.5°	7518.1	7527.7	7537.4	7566.4	7566.4	7581.9	7578.0	7562.5	7549.0	7537.4	7537.4
15°	7717.2	7715.3	7726.9	7755.9	7769.4	7794.5	7794.5	7773.3	7755.9	7744.3	7740.4
17.5°	7926.0	7931.8	7939.5	7974.3	7995.6	8024.6	8028.4	8011.0	7999.4	7984.0	7974.3
20°	8169.6	8179.2	8210.2	8223.7	8243.0	8270.1	8279.7	8275.9	8264.3	8256.5	8258.5
22.5°	8453.7	8478.9	8498.2	8517.5	8540.7	8560.1	8569.7	8583.3	8571.7	8565.9	8562.0
25°	8797.8	8815.2	8853.9	8888.7	8904.2	8910.0	8921.6	8940.9	8939.0	8925.4	8925.4
27.5°	9188.3	9221.2	9269.5	9319.8	9319.8	9300.5	9339.1	9372.0	9360.4	9343.0	9319.8
30°	9662.0	9692.9	9749.0	9818.5	9783.7	9770.2	9822.4	9882.3	9864.9	9835.9	9832.1
32.5°	10172.3	10201.3	10274.8	10350.2	10305.7	10286.4	10342.4	10429.4	10398.5	10340.5	10305.7
35°	10725.2	10754.2	10858.6	10949.4	10874.1	10841.2	10887.6	10982.3	10928.2	10819.9	10792.9
37.5°	11326.4	11341.9	11477.2	11570.0	11517.8	11430.8	11488.8	11558.4	11512.0	11380.5	11328.3
40°	11950.8	12006.9	12163.5	12271.7	12180.9	12043.6	12140.3	12236.9	12167.3	11999.2	11910.2
42.5°	12679.6	12722.2	12930.9	13027.6	12880.7	12687.4	12818.8	12950.3	12880.7	12718.3	12641.0
45°	13437.4	13503.2	13752.5	13849.2	13636.5	13391.0	13551.5	13781.5	13775.7	13541.8	13460.6
47.5°	14262.9	14328.6	14626.3	14753.9	14523.9	14195.2	14421.4	14746.2	14723.0	14465.9	14400.1
50°	15215.9	15285.5	15656.7	15817.2	15602.6	15219.8	15560.0	15846.2	15803.6	15486.6	15492.4
52.5°	16412.6	16408.7	16870.7	17149.1	16928.7	16590.4	16903.6	17182.0	17006.1	16567.2	16553.7
55°	17460.3	17524.1	18096.4	18624.1	18610.6	18481.1	18606.7	18618.3	18115.7	17531.9	17460.3
57.5°	18148.6	18270.3	19076.5	20031.5	20746.7	20918.8	20675.2	19936.7	18759.4	17825.7	17711.7
60°	17725.2	17910.8	19177.0	21123.7	23230.8	24241.9	22867.4	20576.6	18258.7	16957.7	16803.1
62.5°	14868.0	15181.1	17035.1	20595.9	25368.9	28324.7	24456.5	19550.1	16267.6	14475.5	14210.7
65°	9054.9	9385.5	11620.3	16951.9	25022.9	31557.0	23731.5	16227.0	11873.5	9644.6	9358.5
67.5°	3017.7	3114.3	4430.8	9370.1	19666.1	28353.7	19699.0	9714.2	5167.4	3425.6	3325.0
70°	1181.2	1190.8	1405.4	2716.1	9286.9	19474.7	10247.7	2764.4	1469.2	1161.8	1187.0
72.5°	868.0	871.9	931.8	1134.8	2420.3	8579.4	2507.3	1140.6	906.7	813.9	813.9
75°	697.9	697.9	740.4	827.4	1084.5	1968.0	1100.0	817.7	709.5	649.5	641.8
77.5°	551.0	562.6	595.4	651.5	734.6	947.3	761.7	647.6	572.2	516.2	504.6
80°	409.8	421.4	475.6	502.6	527.8	657.3	562.6	506.5	452.4	386.6	375.0
82.5°	268.7	280.3	348.0	363.4	357.6	429.2	378.9	373.1	332.5	249.4	237.8
85°	175.9	179.8	232.0	241.6	222.3	195.2	241.6	255.2	232.0	162.4	156.6
87.5°	83.1	83.1	117.9	110.2	100.5	81.2	110.2	129.5	131.5	79.3	77.3
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)