

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: P316624

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316624  
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-SA0D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 59309 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

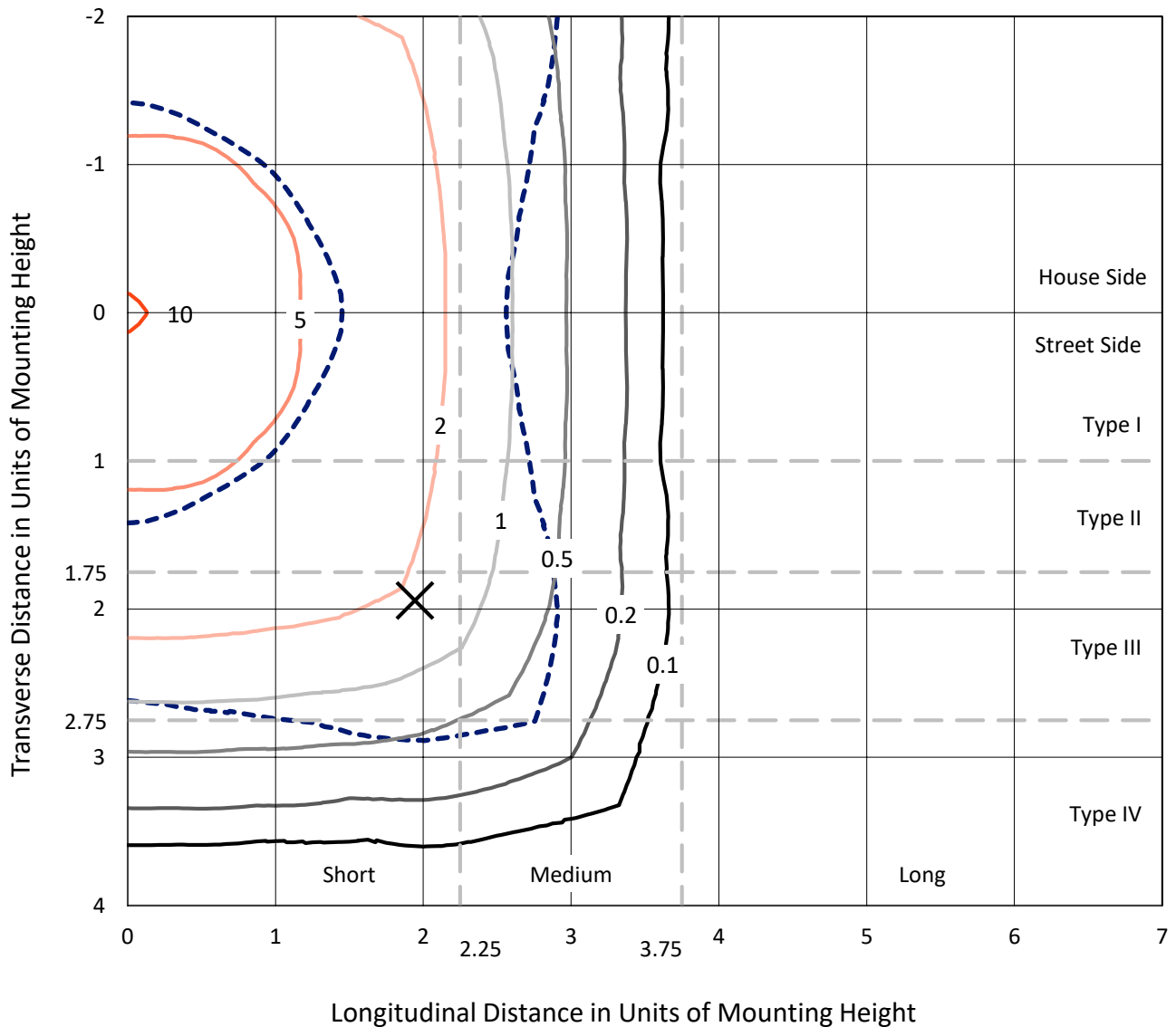
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

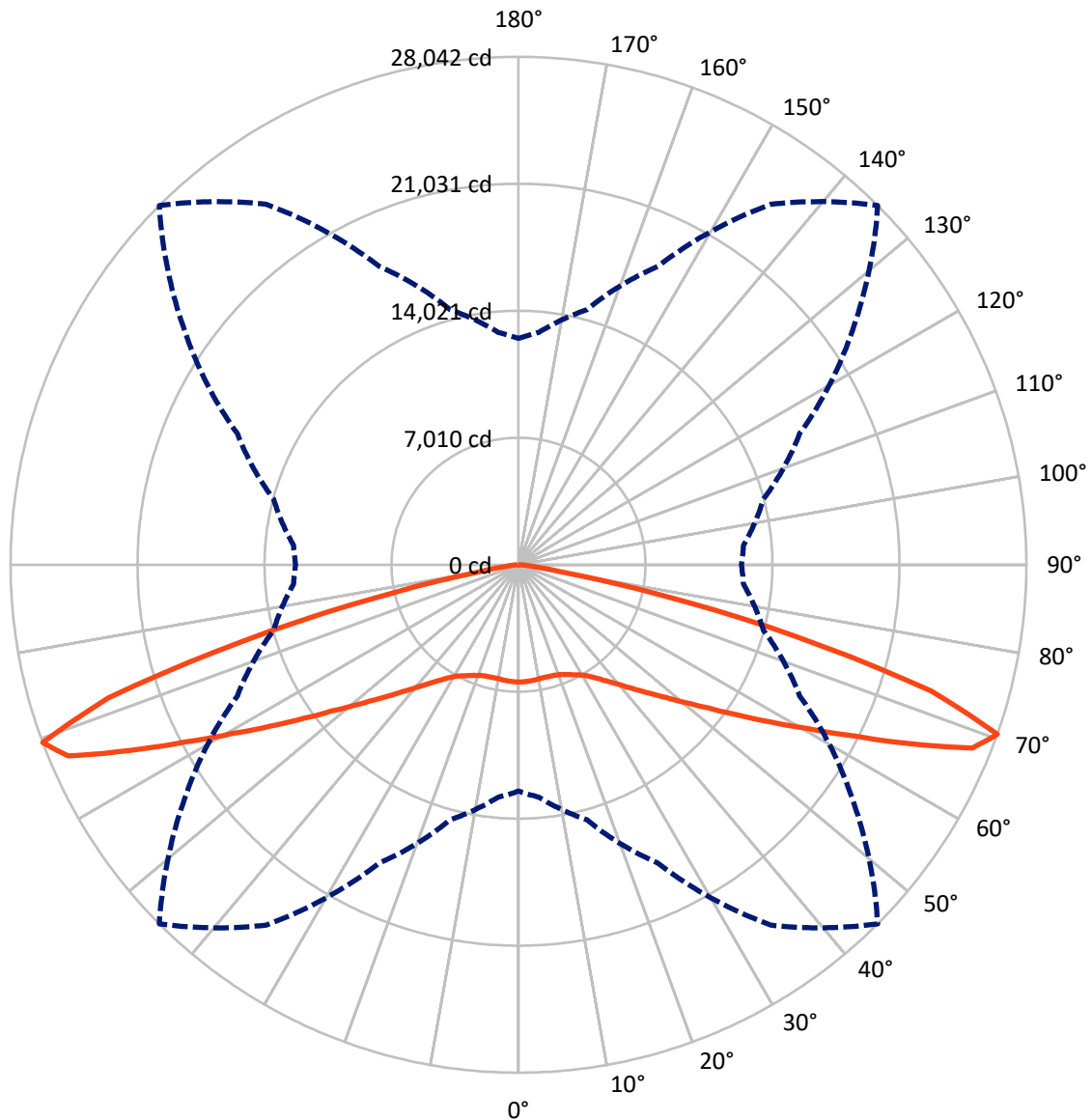
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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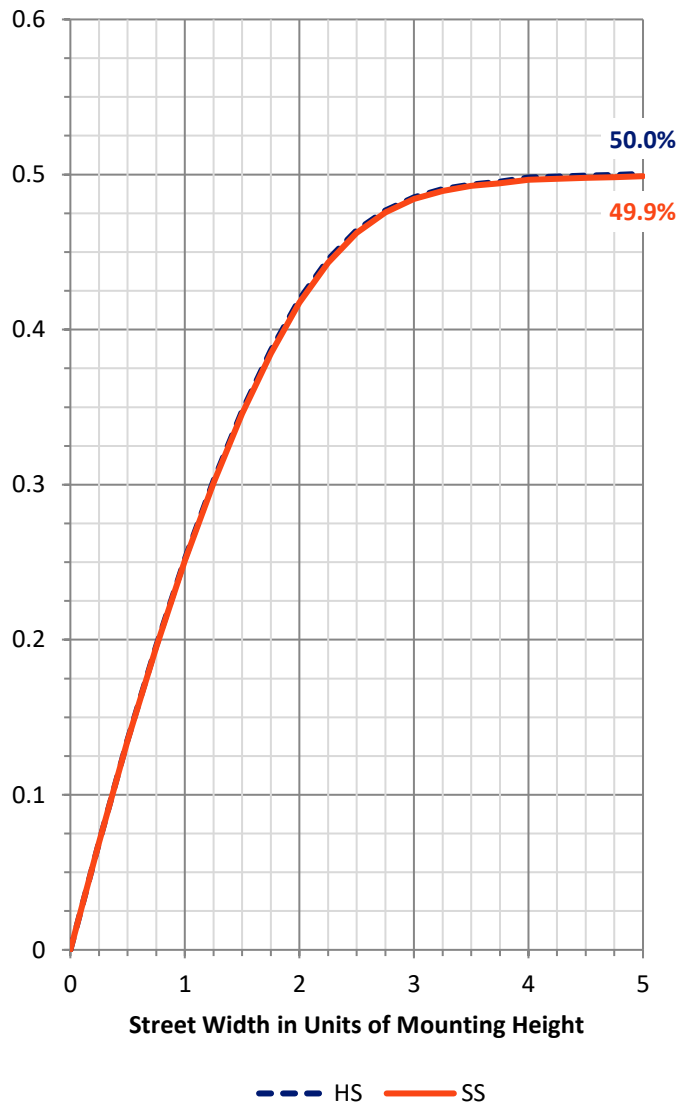
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29654.5	0.0	29654.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29654.5	0.0	29654.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	59309.0	0.0	59309.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.5	1.0
10°-20°	1801.0	3.0
20°-30°	3065.9	5.2
30°-40°	4862.6	8.2
40°-50°	7912.9	13.3
50°-60°	13046.9	22.0
60°-70°	19153.2	32.3
70°-80°	8469.5	14.3
80°-90°	383.5	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°	59309.0	100.0
0°-180°	59309.0	100.0

**Coefficient of Utilization**



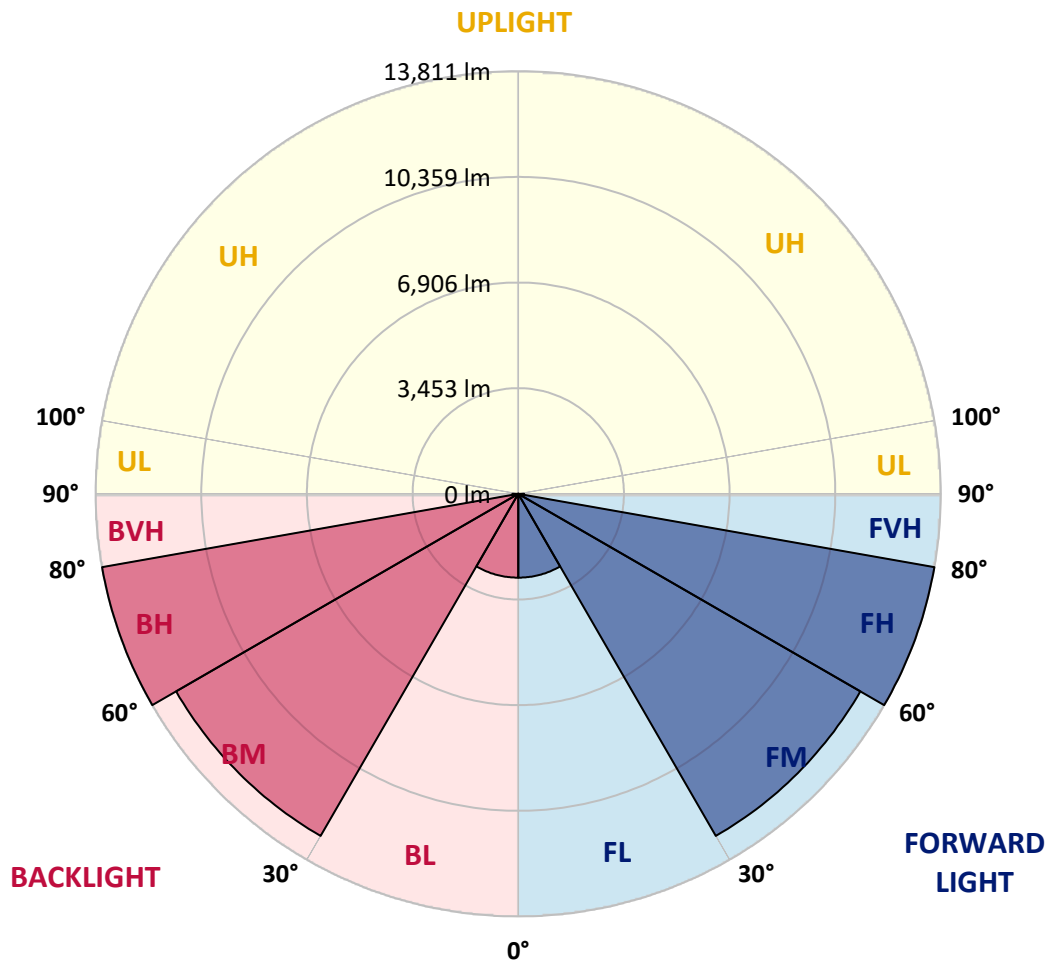
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2740.2	4.6			
FM (30°-60°)	12911.1	21.8			
FH (60°-80°)	13811.3	23.3			G5
FVH (80°-90°)	191.8	0.3			G2/225
BL (0°-30°)	2740.2	4.6	B4/5000		
BM (30°-60°)	12911.1	21.8	B5		
BH (60°-80°)	13811.3	23.3	B5		G5
BVH (80°-90°)	191.8	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°	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5
2.5°	6467.7	6461.8	6475.5	6473.5	6461.8	6463.7	6463.7	6469.6	6469.6	6465.7	6465.7
5°	6444.1	6440.2	6455.9	6455.9	6444.1	6448.0	6451.9	6457.8	6455.9	6451.9	6450.0
7.5°	6414.7	6412.7	6428.4	6428.4	6420.5	6424.5	6420.5	6422.5	6418.6	6414.7	6408.8
10°	6365.6	6369.5	6383.2	6387.2	6387.2	6389.1	6385.2	6375.4	6369.5	6363.6	6357.7
12.5°	6320.4	6318.5	6338.1	6347.9	6363.6	6381.3	6369.5	6342.0	6330.3	6318.5	6314.5
15°	6291.0	6293.0	6312.6	6330.3	6357.7	6395.0	6381.3	6338.1	6314.5	6300.8	6296.9
17.5°	6285.1	6289.0	6314.5	6346.0	6375.4	6416.6	6408.8	6365.6	6326.3	6300.8	6294.9
20°	6298.8	6300.8	6340.1	6385.2	6436.2	6475.5	6457.8	6410.7	6357.7	6318.5	6308.7
22.5°	6324.4	6332.2	6381.3	6451.9	6530.5	6583.5	6561.9	6481.4	6399.0	6349.9	6336.1
25°	6404.8	6406.8	6473.5	6569.7	6663.9	6724.8	6699.3	6585.4	6479.4	6424.5	6406.8
27.5°	6571.7	6577.6	6644.3	6756.2	6836.7	6875.9	6860.2	6768.0	6677.7	6618.8	6624.7
30°	6813.1	6821.0	6895.6	7019.2	7068.3	7078.1	7074.2	7031.0	6948.6	6870.0	6875.9
32.5°	7107.5	7111.5	7211.6	7323.5	7362.7	7370.6	7362.7	7323.5	7225.3	7119.3	7125.2
35°	7486.4	7498.2	7594.3	7702.3	7733.7	7749.4	7735.7	7684.6	7582.6	7478.5	7474.6
37.5°	7953.5	7955.5	8055.6	8167.5	8206.8	8210.7	8195.0	8161.6	8034.0	7939.8	7933.9
40°	8495.3	8503.1	8620.9	8740.7	8756.4	8738.7	8760.3	8740.7	8609.1	8501.2	8518.8
42.5°	9154.8	9172.5	9313.8	9431.6	9386.4	9376.6	9390.4	9396.3	9290.3	9158.7	9147.0
45°	9922.3	9938.0	10114.7	10208.9	10179.4	10114.7	10142.1	10189.2	10042.0	9879.1	9894.8
47.5°	10797.7	10837.0	11025.4	11113.8	11041.1	10952.8	11005.8	11076.5	10903.7	10701.6	10691.7
50°	11771.3	11820.4	12071.6	12195.3	12122.7	11959.8	12048.1	12095.2	11845.9	11584.8	11563.3
52.5°	12809.7	12858.8	13174.8	13429.9	13382.8	13129.6	13253.3	13204.2	12917.6	12566.3	12538.8
55°	13985.4	14005.1	14346.6	14758.8	14805.9	14619.4	14611.6	14531.1	14107.1	13700.8	13681.2
57.5°	15194.6	15208.3	15649.9	16136.7	16358.5	16358.5	16138.7	15967.9	15404.6	14933.5	14884.4
60°	16499.9	16548.9	17037.7	17699.2	18217.4	18370.5	17981.8	17516.6	16904.2	16329.1	16272.2
62.5°	17661.9	17718.8	18466.7	19452.0	20284.3	20841.7	19891.7	19134.0	18019.1	17096.6	16988.6
65°	17809.1	17962.2	19051.6	20835.8	22698.6	23811.6	21990.0	20123.3	18091.8	16810.0	16700.1
67.5°	16264.3	16523.4	17995.6	20773.0	24622.2	27011.0	23330.7	19558.0	16788.4	15371.2	15249.5
70°	12497.6	12874.5	14572.3	18170.3	24290.5	28041.5	22490.5	17122.1	13997.2	12472.1	12301.3
72.5°	6856.3	7011.4	8538.5	12442.6	19473.6	23829.2	18759.1	12660.5	9282.4	7553.1	7266.5
75°	2174.9	2229.8	3007.1	5091.7	11015.6	15783.4	11916.6	6214.4	3421.3	2522.3	2492.8
77.5°	965.7	971.6	1087.4	1485.9	3794.2	7996.7	4557.8	1692.0	1165.9	1018.7	1052.1
80°	610.5	610.5	673.3	736.1	1032.5	2322.1	1232.7	804.8	687.0	637.9	651.7
82.5°	292.5	323.9	437.7	471.1	567.3	781.2	632.0	526.0	459.3	341.5	318.0
85°	192.4	161.0	276.8	312.1	329.8	374.9	367.1	347.4	300.3	170.8	190.4
87.5°	86.4	82.4	143.3	131.5	123.7	94.2	141.3	174.7	168.8	84.4	84.4
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)