

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: P316942

Luminaire Tested: **GLEON-SA8D-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316942
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-SA8D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 47153 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

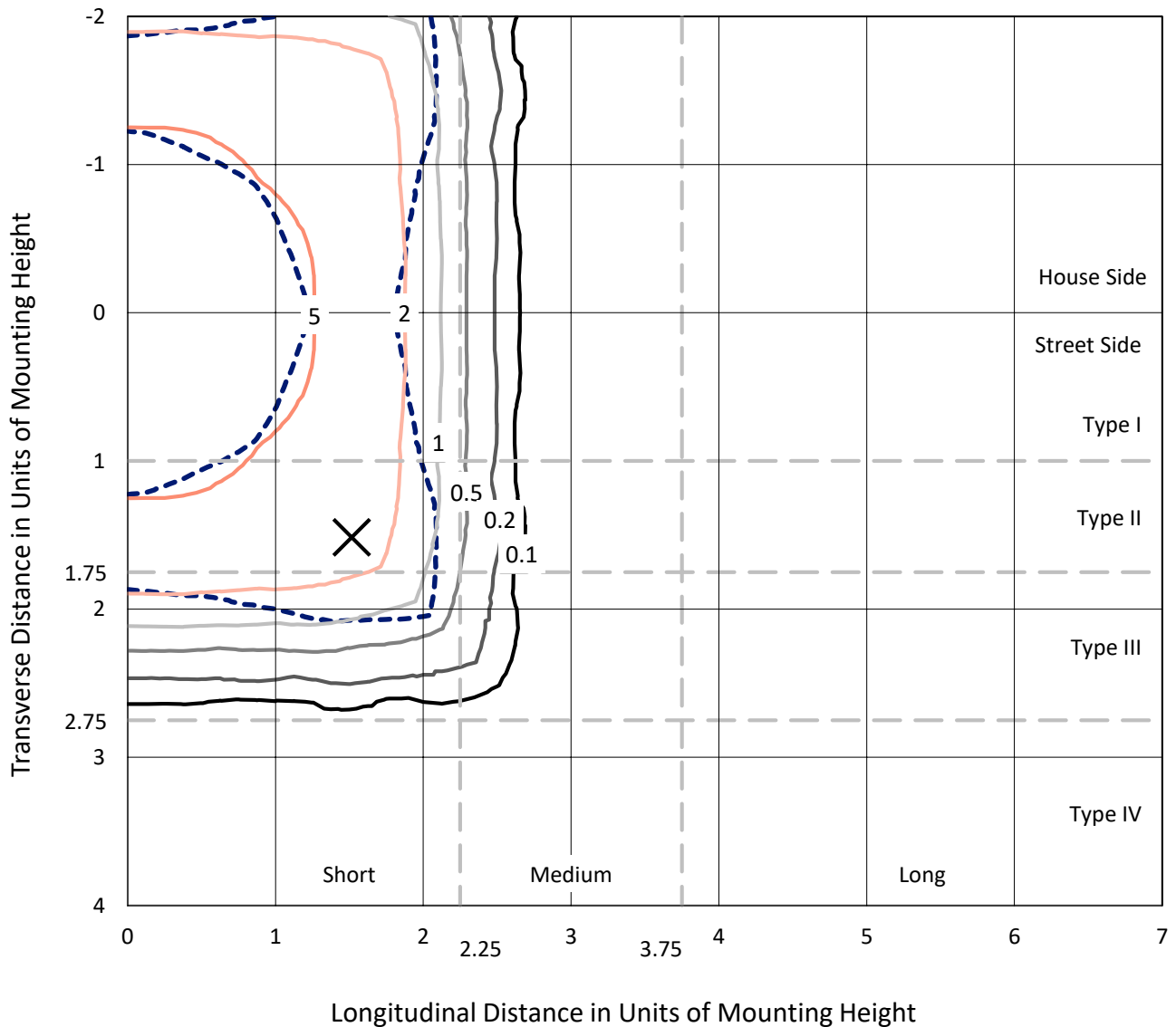
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

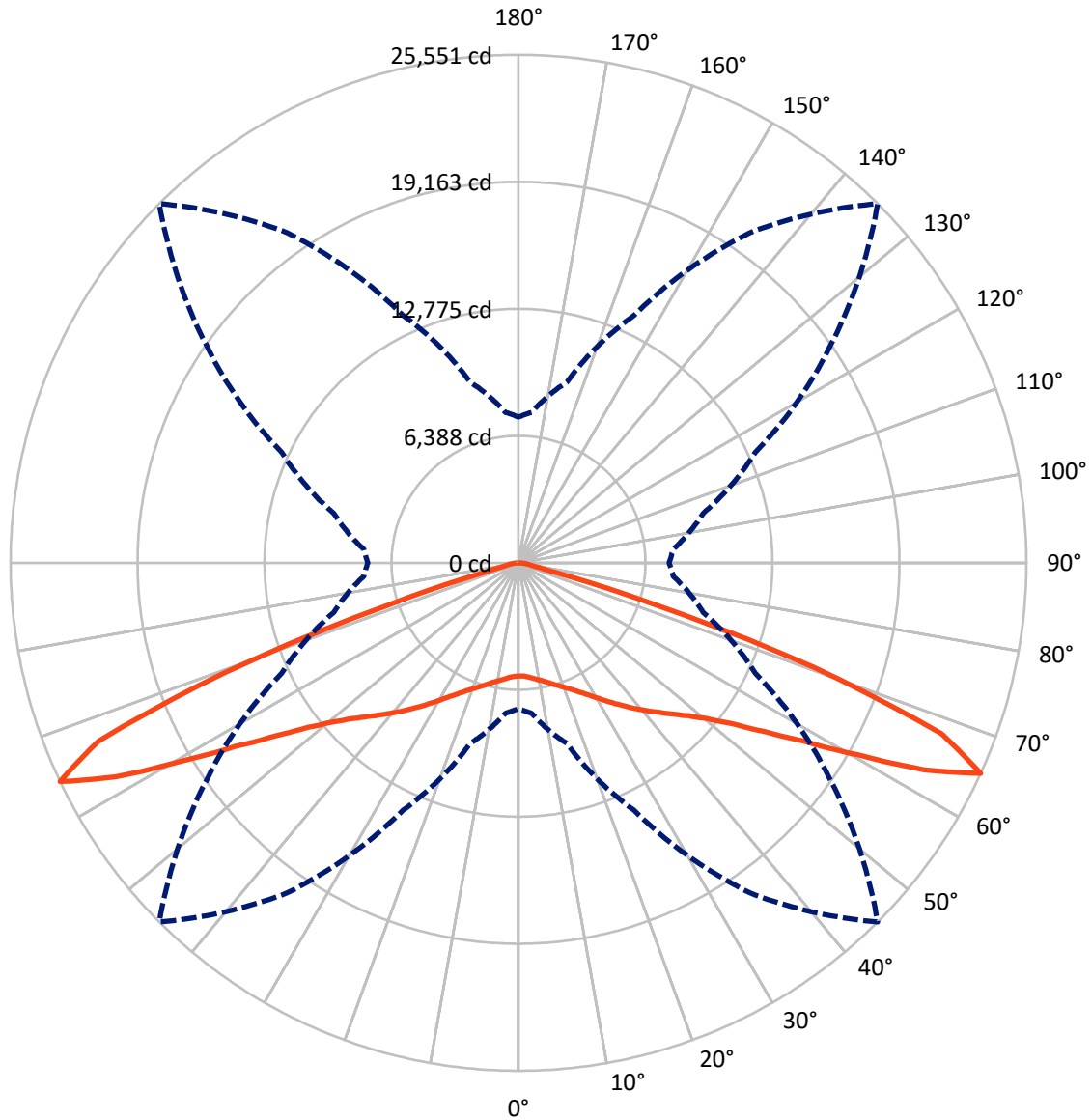
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

REPORT NUMBER: P316942
CATALOG NUMBER: GLEON-SA8D-827-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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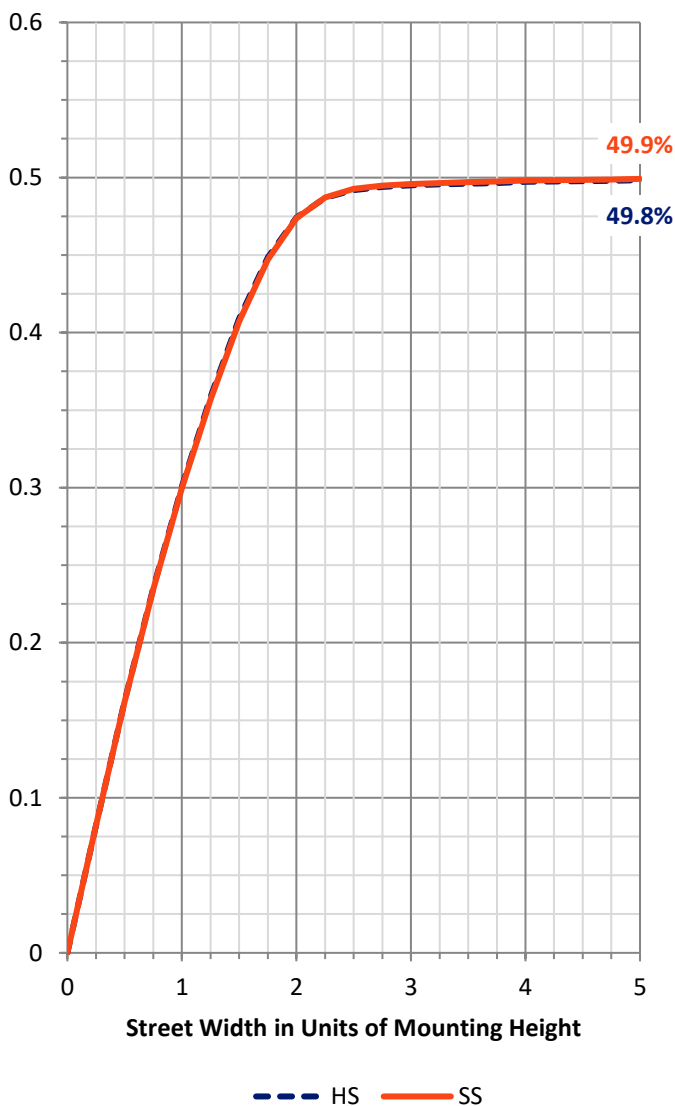
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23576.5	0.0	23576.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23576.5	0.0	23576.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47153.0	0.0	47153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.7	1.2
10°-20°	1795.8	3.8
20°-30°	3369.2	7.1
30°-40°	5572.0	11.8
40°-50°	8630.3	18.3
50°-60°	13236.4	28.1
60°-70°	12351.1	26.2
70°-80°	1437.5	3.0
80°-90°	202.0	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°	47153.0	100.0
0°-180°	47153.0	100.0

Coefficient of Utilization



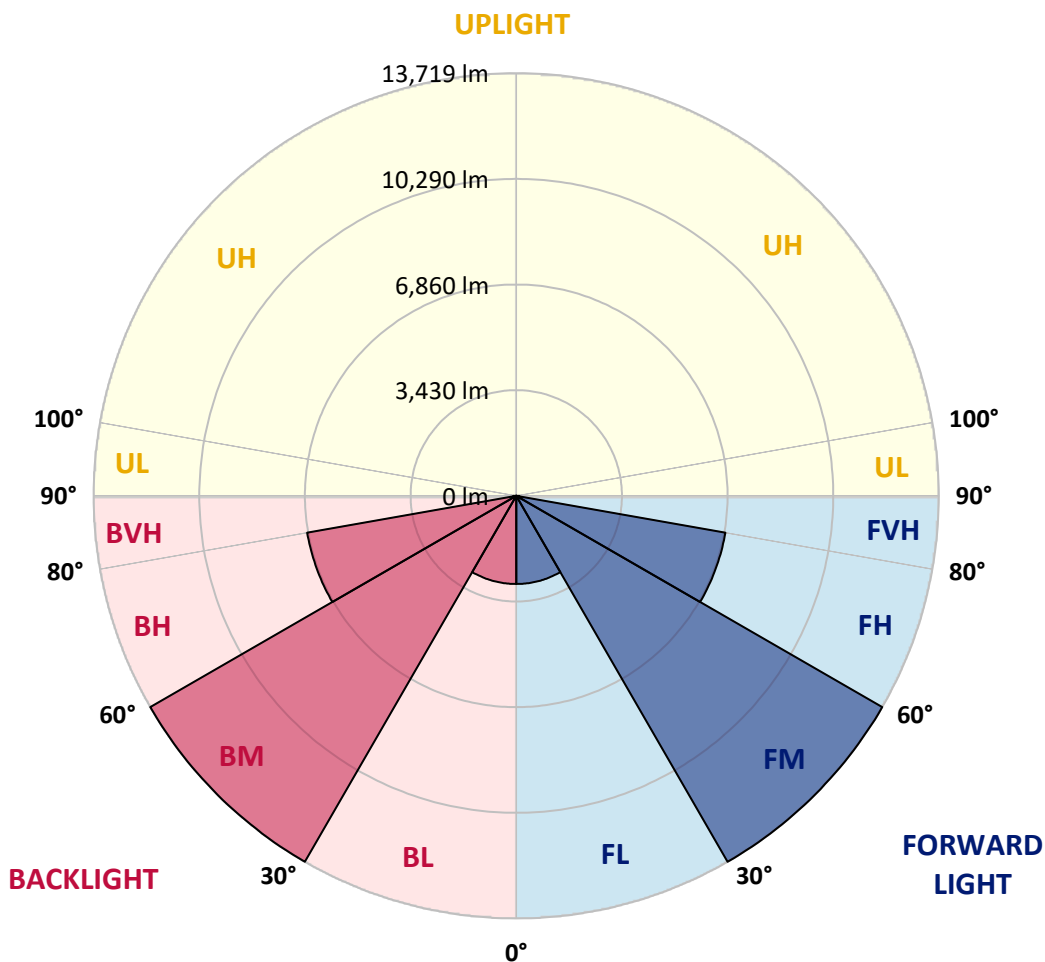
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 CATALOG NUMBER: GLEON-SA8D-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.8	6.1			
FM (30°-60°)	13719.4	29.1			
FH (60°-80°)	6894.3	14.6			G3/7500
FVH (80°-90°)	101.0	0.2			G2/225
BL (0°-30°)	2861.8	6.1	B4/5000		
BM (30°-60°)	13719.4	29.1	B5		
BH (60°-80°)	6894.3	14.6	B5		G3/7500
BVH (80°-90°)	101.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3
2.5°	5713.1	5710.0	5713.1	5714.7	5705.3	5710.0	5708.4	5716.2	5719.4	5716.2	5716.2
5°	5778.8	5774.1	5780.4	5788.2	5775.7	5778.8	5774.1	5783.5	5786.7	5780.4	5785.1
7.5°	5869.6	5871.2	5877.5	5891.5	5883.7	5890.0	5880.6	5882.1	5880.6	5871.2	5872.8
10°	5968.2	5969.8	5980.8	5999.5	6002.7	6002.7	5996.4	5991.7	5985.5	5979.2	5980.8
12.5°	6087.2	6095.0	6102.8	6126.3	6126.3	6138.8	6135.7	6123.2	6112.2	6102.8	6102.8
15°	6248.4	6246.8	6256.2	6279.7	6290.7	6311.0	6311.0	6293.8	6279.7	6270.3	6267.2
17.5°	6417.5	6422.2	6428.4	6456.6	6473.8	6497.3	6500.4	6486.3	6476.9	6464.4	6456.6
20°	6614.7	6622.5	6647.5	6658.5	6674.2	6696.1	6703.9	6700.8	6691.4	6685.1	6686.7
22.5°	6844.8	6865.1	6880.8	6896.4	6915.2	6930.9	6938.7	6949.6	6940.2	6935.6	6932.4
25°	7123.4	7137.5	7168.8	7196.9	7209.5	7214.2	7223.6	7239.2	7237.6	7226.7	7226.7
27.5°	7439.6	7466.2	7505.3	7546.0	7546.0	7530.3	7561.6	7588.3	7578.9	7564.8	7546.0
30°	7823.0	7848.1	7893.5	7949.8	7921.7	7910.7	7953.0	8001.5	7987.4	7963.9	7960.8
32.5°	8236.3	8259.7	8319.2	8380.3	8344.3	8328.6	8374.0	8444.4	8419.4	8372.4	8344.3
35°	8683.9	8707.4	8791.9	8865.5	8804.4	8777.8	8815.4	8892.1	8848.3	8760.6	8738.7
37.5°	9170.7	9183.2	9292.8	9367.9	9325.7	9255.2	9302.2	9358.5	9321.0	9214.5	9172.3
40°	9676.3	9721.7	9848.5	9936.1	9862.5	9751.4	9829.7	9907.9	9851.6	9715.4	9643.4
42.5°	10266.4	10300.8	10469.9	10548.1	10429.2	10272.6	10379.1	10485.5	10429.2	10297.7	10235.1
45°	10879.9	10933.2	11135.1	11213.3	11041.2	10842.4	10972.3	11158.6	11153.9	10964.5	10898.7
47.5°	11548.3	11601.5	11842.6	11945.9	11759.6	11493.5	11676.6	11939.6	11920.8	11712.6	11659.4
50°	12320.0	12376.3	12676.8	12806.7	12633.0	12323.1	12598.6	12830.2	12795.8	12539.1	12543.8
52.5°	13288.8	13285.7	13659.8	13885.2	13706.8	13432.8	13686.4	13911.8	13769.4	13414.1	13403.1
55°	14137.2	14188.8	14652.2	15079.5	15068.5	14963.6	15065.4	15074.8	14667.8	14195.1	14137.2
57.5°	14694.4	14793.0	15445.7	16219.0	16798.1	16937.4	16740.2	16142.3	15189.0	14433.0	14340.7
60°	14351.6	14501.9	15527.1	17103.3	18809.4	19628.0	18515.2	16660.4	14783.6	13730.2	13605.0
62.5°	12038.2	12291.8	13792.8	16676.0	20540.6	22933.8	19801.8	15829.2	13171.4	11720.5	11506.0
65°	7331.6	7599.2	9408.6	13725.5	20260.4	25550.9	19214.8	13138.6	9613.7	7809.0	7577.3
67.5°	2443.3	2521.6	3587.5	7586.7	15923.1	22957.3	15949.7	7865.3	4183.9	2773.6	2692.2
70°	956.4	964.2	1137.9	2199.2	7519.4	15768.2	8297.3	2238.3	1189.6	940.7	961.1
72.5°	702.8	705.9	754.4	918.8	1959.7	6946.5	2030.1	923.5	734.1	659.0	659.0
75°	565.0	565.0	599.5	669.9	878.1	1593.4	890.6	662.1	574.4	525.9	519.7
77.5°	446.1	455.5	482.1	527.5	594.8	767.0	616.7	524.4	463.3	417.9	408.5
80°	331.8	341.2	385.0	407.0	427.3	532.2	455.5	410.1	366.3	313.0	303.7
82.5°	217.6	227.0	281.7	294.3	289.6	347.5	306.8	302.1	269.2	201.9	192.5
85°	142.4	145.6	187.8	195.7	180.0	158.1	195.7	206.6	187.8	131.5	126.8
87.5°	67.3	67.3	95.5	89.2	81.4	65.7	89.2	104.9	106.4	64.2	62.6
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)