

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: P317262

Luminaire Tested: **GLEON-SA8D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46729 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

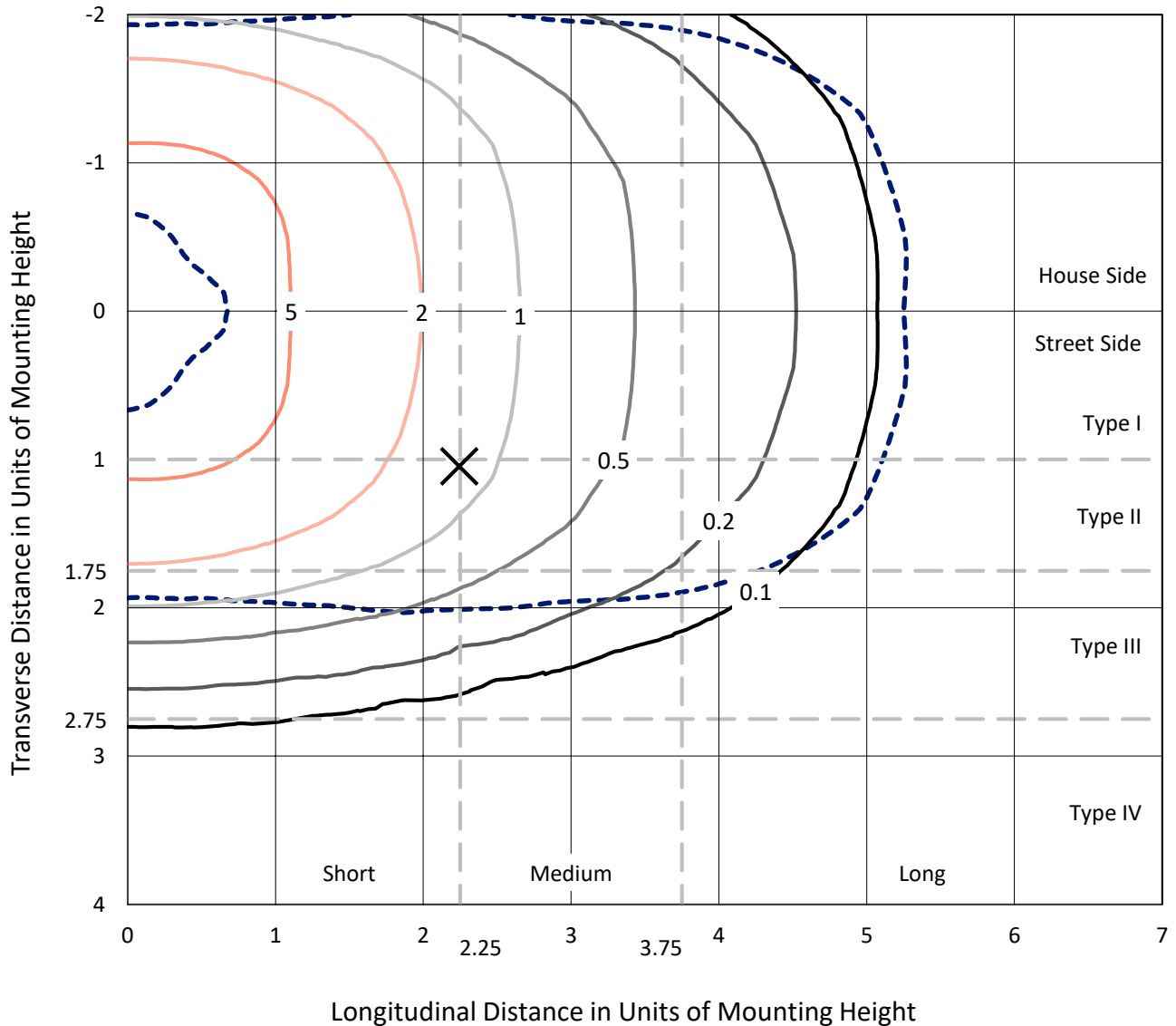
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

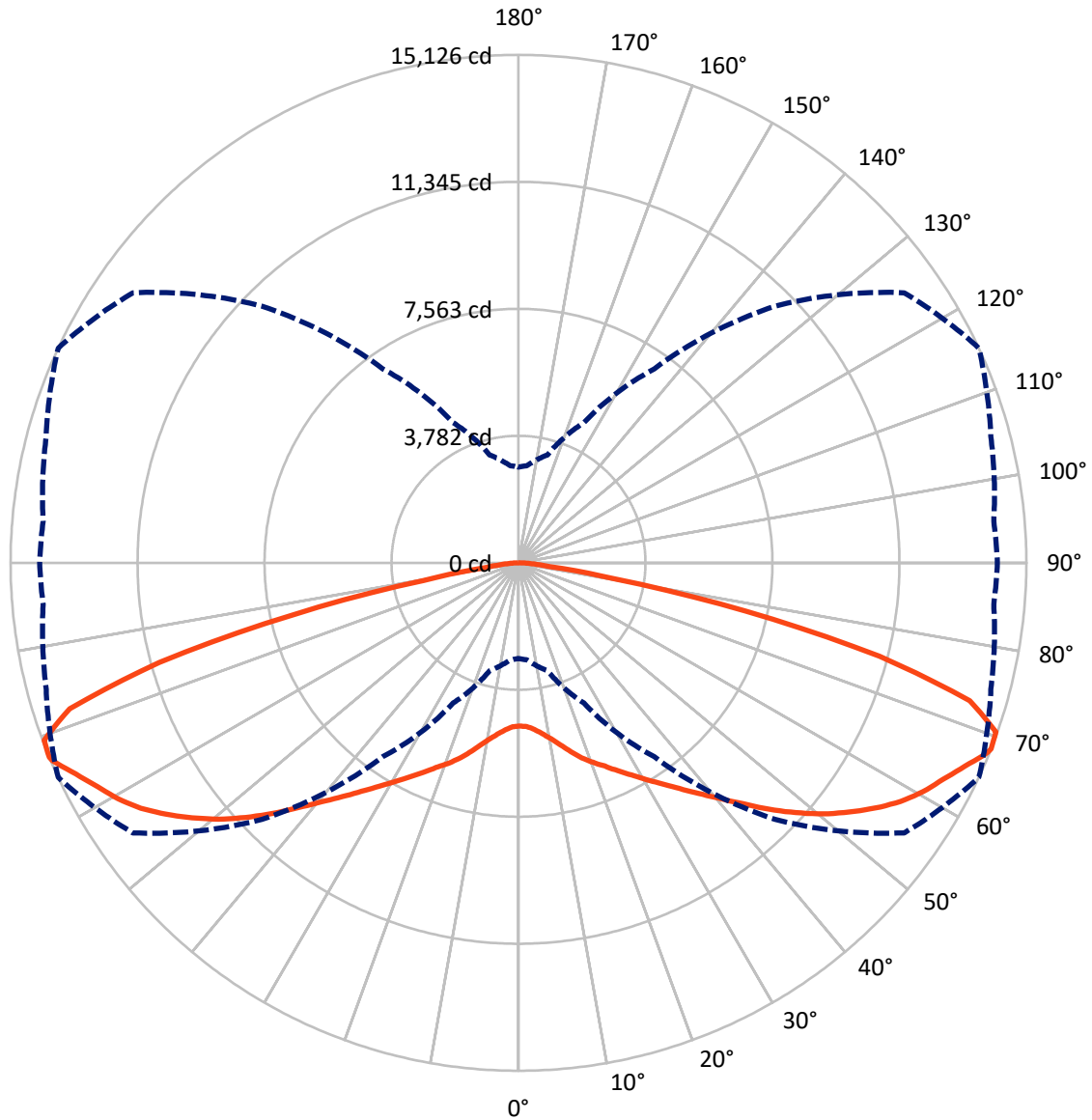
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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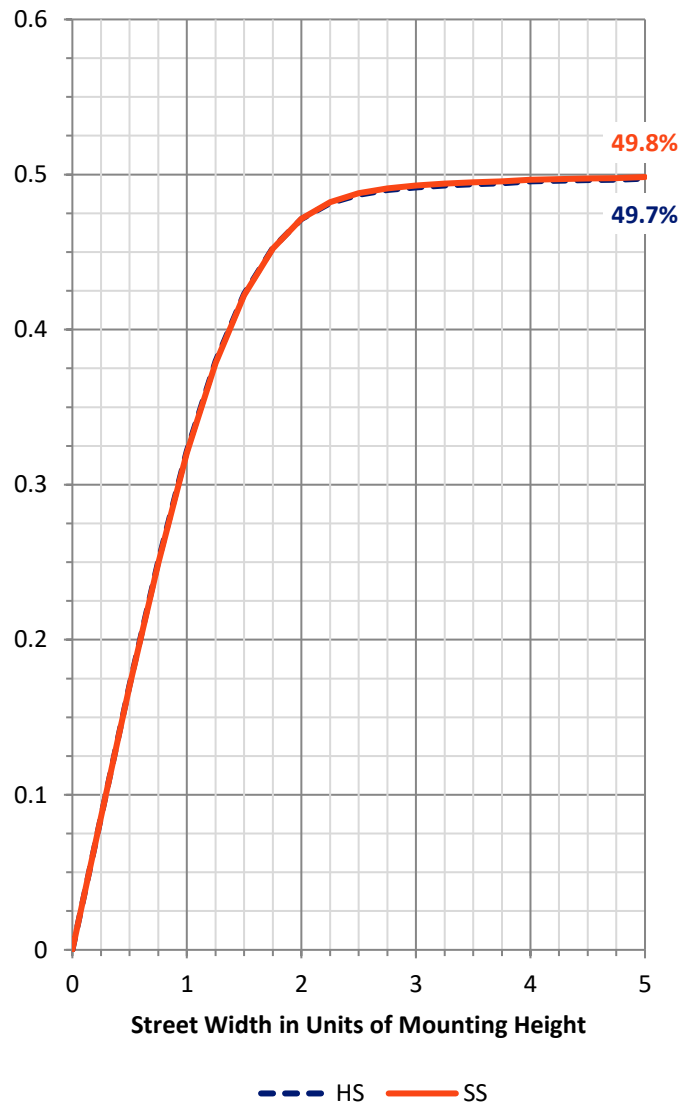
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23364.5	0.0	23364.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23364.5	0.0	23364.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46729.0	0.0	46729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	1.0
10°-20°	1592.8	3.4
20°-30°	3105.7	6.6
30°-40°	5217.3	11.2
40°-50°	8220.5	17.6
50°-60°	10993.6	23.5
60°-70°	10687.1	22.9
70°-80°	5842.1	12.5
80°-90°	594.2	1.3
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°	46729.0	100.0
0°-180°	46729.0	100.0

Coefficient of Utilization



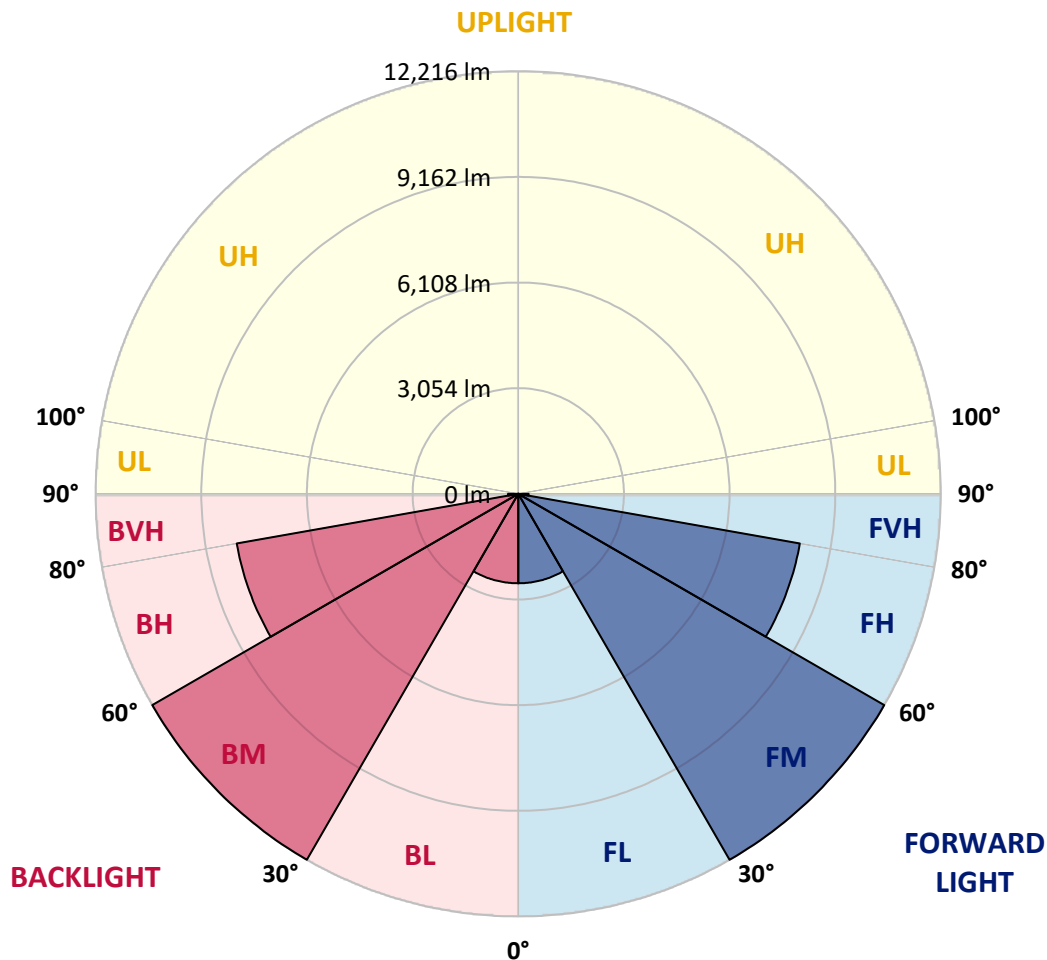
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.1	5.5			
FM (30°-60°)	12215.7	26.1			
FH (60°-80°)	8264.6	17.7			G4/12000
FVH (80°-90°)	297.1	0.6			G3/500
BL (0°-30°)	2587.1	5.5	B4/5000		
BM (30°-60°)	12215.7	26.1	B5		
BH (60°-80°)	8264.6	17.7	B5		G5
BVH (80°-90°)	297.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4858.7	4858.7	4858.7	4858.7	4858.7	4858.7	4858.7	4858.7	4858.7	4858.7	4858.7
2.5°	4824.2	4825.8	4833.6	4843.0	4850.9	4871.3	4876.0	4883.8	4886.9	4894.8	4894.8
5°	4781.9	4785.1	4803.9	4828.9	4857.1	4907.3	4943.3	4984.1	5004.4	5026.4	5024.8
7.5°	4777.2	4785.1	4811.7	4852.4	4899.5	4982.5	5057.7	5139.2	5194.0	5244.2	5241.0
10°	4825.8	4838.3	4876.0	4937.1	5007.6	5111.0	5222.2	5331.9	5427.5	5504.2	5507.4
12.5°	4899.5	4915.1	4974.7	5067.1	5173.6	5306.8	5438.4	5562.2	5693.8	5808.2	5817.6
15°	4996.6	5017.0	5106.3	5244.2	5407.1	5565.4	5706.4	5833.3	5985.3	6143.5	6159.2
17.5°	5140.7	5168.9	5286.5	5472.9	5687.6	5861.5	6008.8	6104.3	6231.3	6394.2	6424.0
20°	5360.1	5396.1	5545.0	5767.5	6029.1	6210.9	6323.7	6344.1	6406.7	6552.5	6586.9
22.5°	5645.3	5676.6	5842.7	6107.5	6400.5	6597.9	6657.4	6576.0	6569.7	6687.2	6720.1
25°	5963.3	5991.5	6184.2	6481.9	6796.9	7014.7	7013.1	6854.8	6745.2	6836.0	6870.5
27.5°	6320.6	6364.4	6549.3	6862.7	7199.5	7414.2	7401.7	7157.2	6948.9	6972.4	7002.1
30°	6731.1	6779.6	6959.8	7277.9	7614.8	7824.7	7809.0	7486.3	7172.9	7110.2	7132.2
32.5°	7240.3	7298.3	7469.0	7782.4	8080.1	8269.7	8224.3	7843.5	7442.4	7306.1	7326.5
35°	7852.9	7887.4	8067.6	8376.2	8617.5	8747.6	8652.0	8257.2	7784.0	7619.5	7619.5
37.5°	8473.4	8500.0	8702.1	9001.4	9234.9	9303.8	9117.3	8710.0	8230.5	7997.1	8001.8
40°	9068.8	9140.8	9368.0	9675.1	9905.5	9924.3	9676.7	9227.0	8727.2	8485.9	8514.1
42.5°	9690.8	9761.3	10032.4	10380.2	10583.9	10615.2	10325.4	9806.7	9288.1	9092.3	9123.6
45°	10245.5	10301.9	10615.2	11019.5	11273.3	11354.8	11011.6	10471.1	9894.5	9703.3	9711.2
47.5°	10632.5	10706.1	11050.8	11527.1	11896.9	12022.2	11685.4	11118.2	10491.4	10259.6	10279.9
50°	10983.4	11022.6	11372.0	11892.2	12362.2	12620.8	12332.5	11757.4	11094.7	10848.7	10870.6
52.5°	11179.3	11229.4	11567.9	12110.0	12666.2	13083.0	12907.5	12332.5	11677.5	11437.8	11464.4
55°	11043.0	11080.6	11486.4	12158.5	12854.2	13368.1	13394.8	12894.9	12249.4	12039.5	12114.7
57.5°	10422.5	10469.5	10964.6	11845.2	12877.7	13560.8	13761.4	13416.7	12783.7	12612.9	12656.8
60°	9452.6	9482.4	10010.4	11000.7	12420.2	13640.8	13994.9	13842.9	13307.0	13136.2	13195.8
62.5°	7724.4	7768.3	8399.7	9726.8	11453.5	13404.2	14220.5	14195.4	13794.3	13637.6	13690.9
65°	5280.2	5357.0	6055.8	7733.8	9963.4	12680.3	14425.7	14605.9	14225.2	14027.8	14098.3
67.5°	3188.5	3244.9	3751.0	5106.3	7624.2	11220.0	14214.2	15072.8	14529.1	14211.1	14269.1
68°	2850.1	2901.8	3324.8	4608.0	7052.3	10807.9	14021.5	15126.1	14562.0	14207.9	14259.7
70°	1721.9	1756.4	2040.0	2848.5	4702.0	8573.7	12706.9	15082.2	14772.0	14251.8	14281.6
72.5°	1121.8	1132.8	1179.8	1461.8	2401.9	4794.5	9537.2	14054.4	15086.9	14507.2	14502.5
75°	932.3	926.0	930.7	963.6	1184.5	2102.7	5573.2	11102.5	14381.9	14104.5	14005.8
77.5°	788.1	783.4	781.8	783.4	792.8	1015.3	2419.2	6916.0	11005.4	12476.6	12564.3
80°	637.7	631.4	651.8	642.4	614.2	631.4	1013.7	2876.7	5187.7	5581.0	5230.1
82.5°	463.8	440.3	528.0	503.0	479.4	445.0	559.4	929.1	1237.8	849.2	597.0
85°	357.2	332.2	401.1	385.4	329.0	227.2	332.2	454.4	501.4	286.7	225.6
87.5°	145.7	153.5	289.9	228.8	192.7	109.7	136.3	181.8	244.4	122.2	94.0
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)