

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: P317259

Luminaire Tested: **GLEON-SA5D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317259
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-SA5D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29141 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

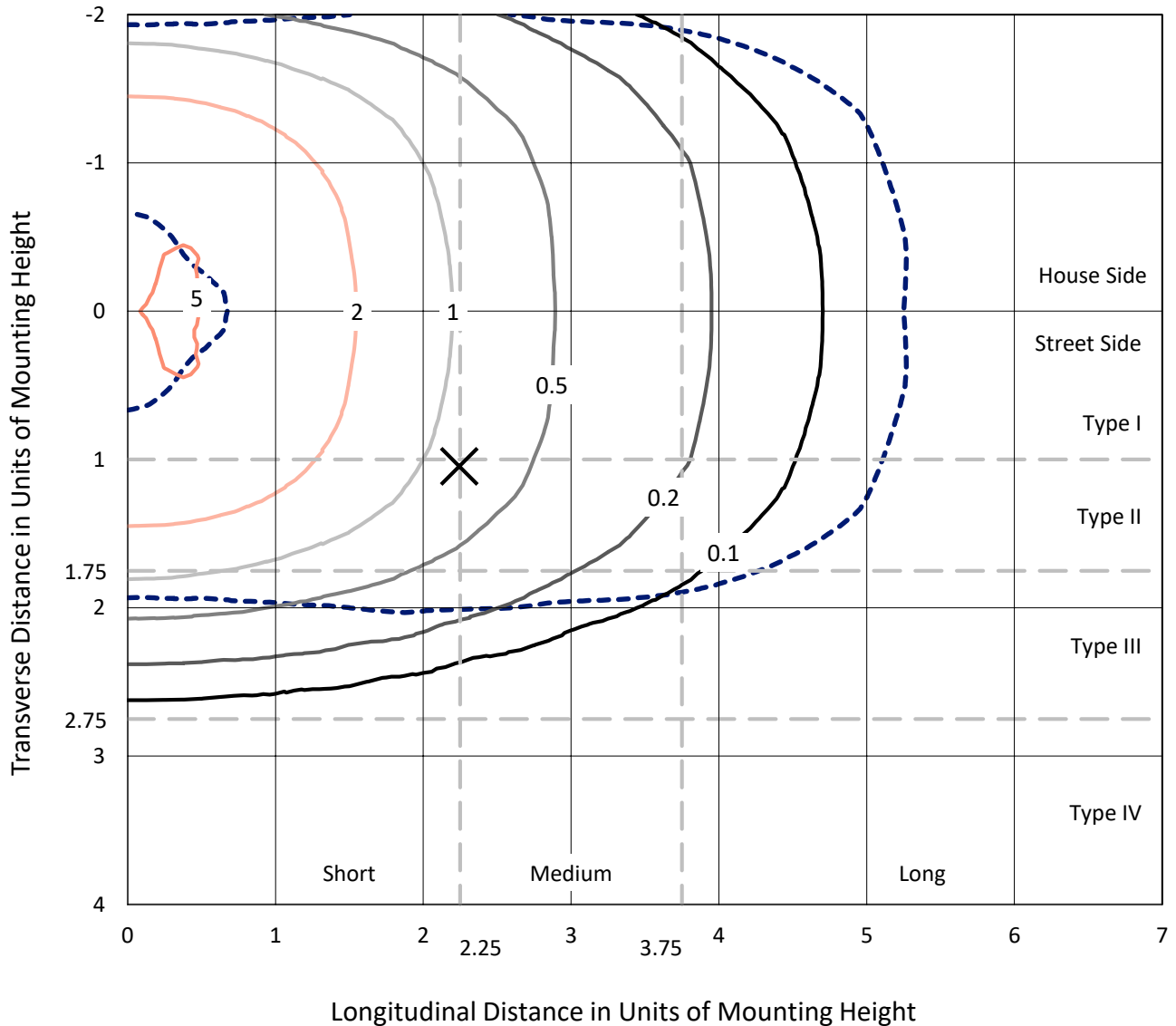
Input Watts (W): 320
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

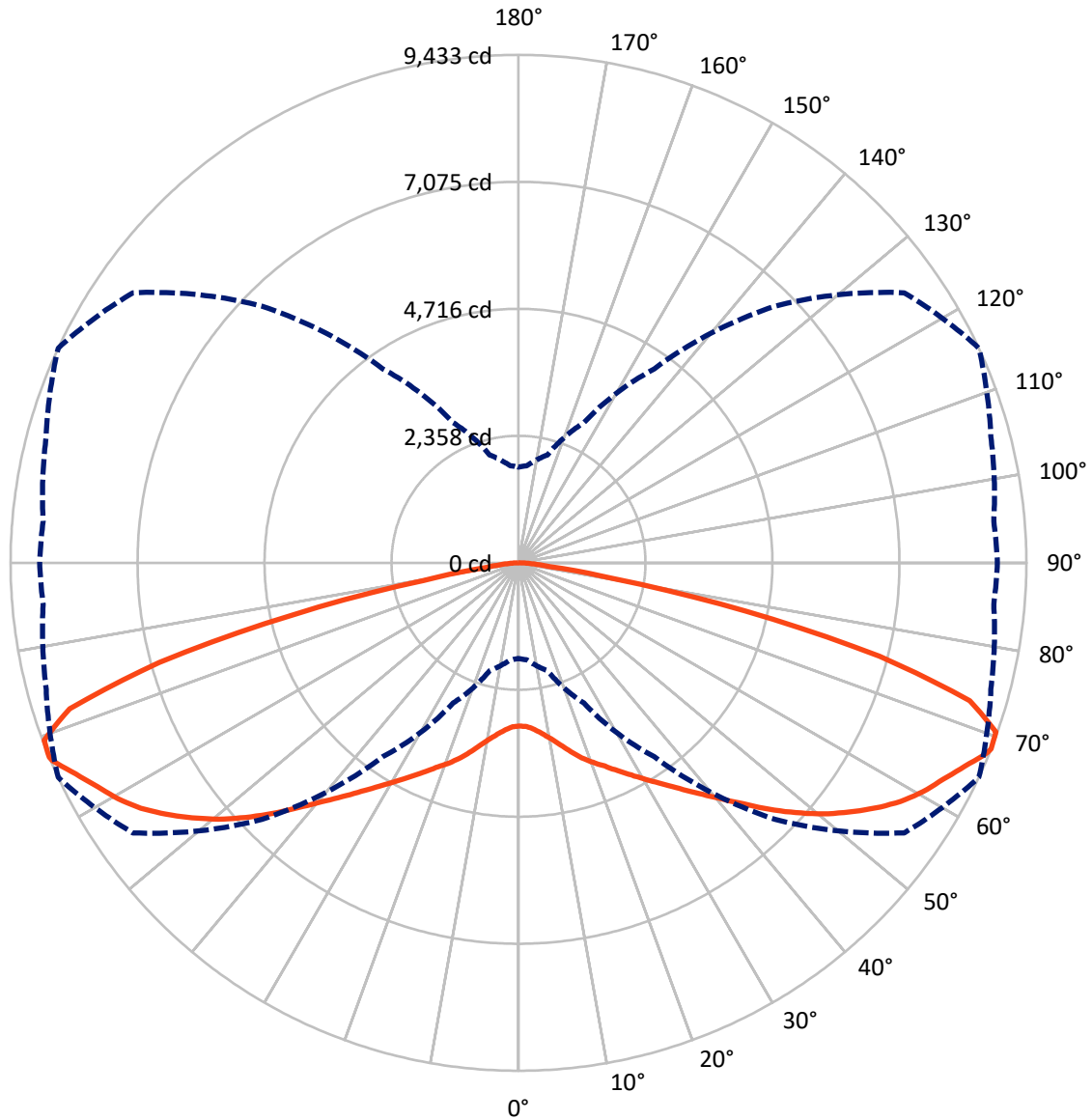
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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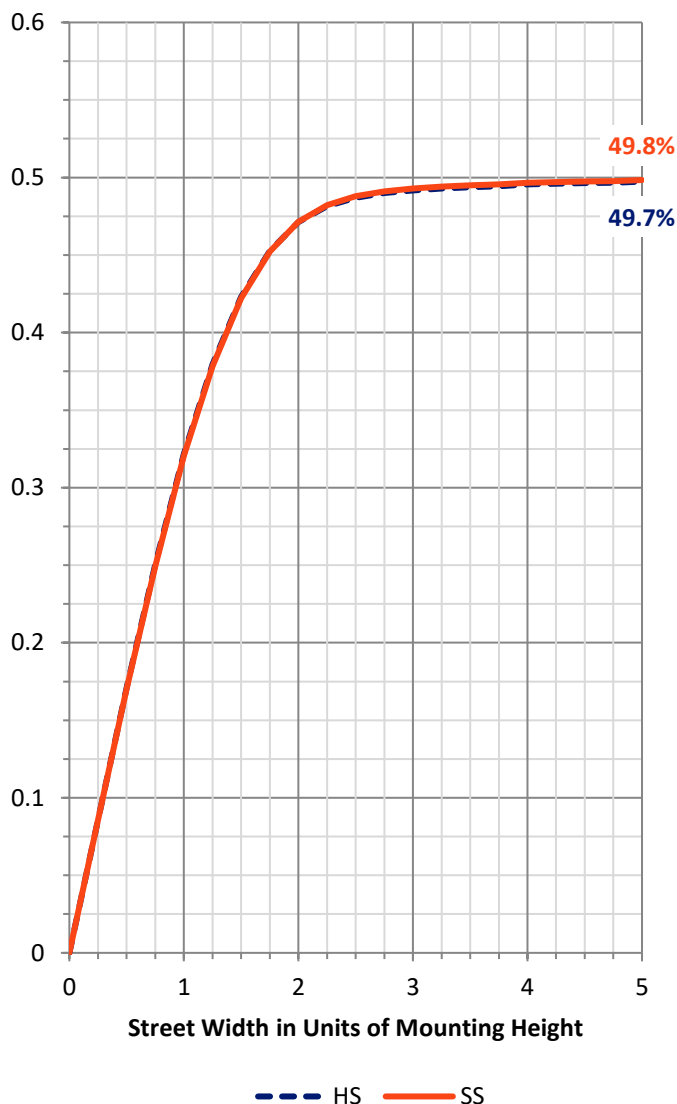
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14570.5	0.0	14570.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14570.5	0.0	14570.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29141.0	0.0	29141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	1.0
10°-20°	993.3	3.4
20°-30°	1936.7	6.6
30°-40°	3253.6	11.2
40°-50°	5126.5	17.6
50°-60°	6855.8	23.5
60°-70°	6664.7	22.9
70°-80°	3643.2	12.5
80°-90°	370.5	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°	29141.0	100.0
0°-180°	29141.0	100.0

Coefficient of Utilization



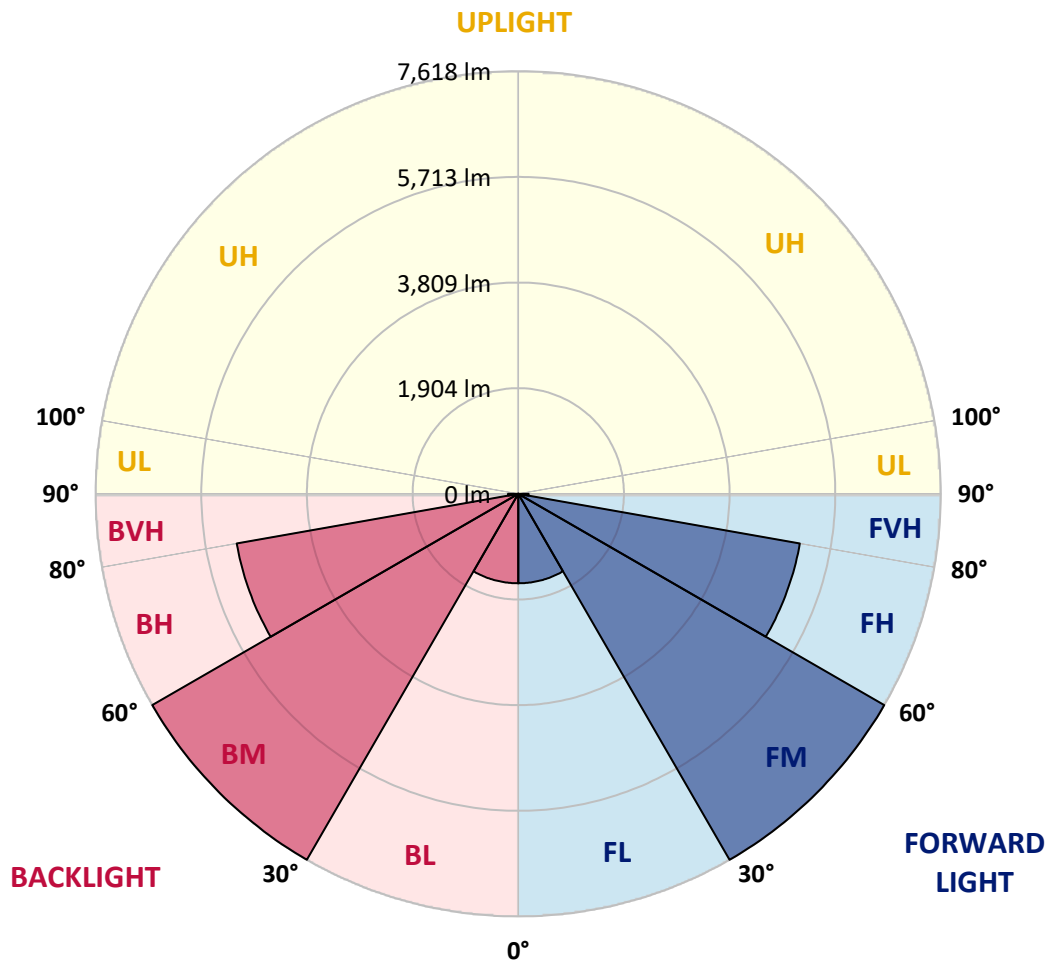
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.4	5.5			
FM (30°-60°)	7617.9	26.1			
FH (60°-80°)	5154.0	17.7			G3/7500
FVH (80°-90°)	185.3	0.6			G2/225
BL (0°-30°)	1613.4	5.5	B3/2500		
BM (30°-60°)	7617.9	26.1	B4/8500		
BH (60°-80°)	5154.0	17.7	B5		G5
BVH (80°-90°)	185.3	0.6			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0
2.5°	3008.5	3009.5	3014.3	3020.2	3025.1	3037.8	3040.7	3045.6	3047.6	3052.5	3052.5
5°	2982.1	2984.1	2995.8	3011.4	3029.0	3060.3	3082.7	3108.1	3120.8	3134.5	3133.6
7.5°	2979.2	2984.1	3000.7	3026.1	3055.4	3107.2	3154.1	3204.9	3239.1	3270.3	3268.4
10°	3009.5	3017.3	3040.7	3078.8	3122.8	3187.3	3256.7	3325.1	3384.7	3432.5	3434.5
12.5°	3055.4	3065.2	3102.3	3159.9	3226.4	3309.4	3391.5	3468.7	3550.8	3622.1	3628.0
15°	3116.0	3128.7	3184.4	3270.3	3372.0	3470.6	3558.6	3637.7	3732.5	3831.2	3841.0
17.5°	3205.9	3223.4	3296.7	3413.0	3546.9	3655.3	3747.2	3806.8	3885.9	3987.5	4006.1
20°	3342.6	3365.1	3457.9	3596.7	3759.9	3873.2	3943.6	3956.3	3995.4	4086.2	4107.7
22.5°	3520.5	3540.0	3643.6	3808.7	3991.4	4114.6	4151.7	4100.9	4097.0	4170.3	4190.8
25°	3718.8	3736.4	3856.6	4042.3	4238.6	4374.5	4373.5	4274.8	4206.4	4263.1	4284.6
27.5°	3941.6	3969.0	4084.3	4279.7	4489.8	4623.6	4615.8	4463.4	4333.4	4348.1	4366.6
30°	4197.6	4227.9	4340.3	4538.6	4748.7	4879.6	4869.9	4668.6	4473.2	4434.1	4447.7
32.5°	4515.2	4551.3	4657.8	4853.2	5038.9	5157.1	5128.8	4891.3	4641.2	4556.2	4568.9
35°	4897.2	4918.7	5031.1	5223.6	5374.0	5455.1	5395.5	5149.3	4854.2	4751.6	4751.6
37.5°	5284.1	5300.8	5426.8	5613.4	5759.0	5802.0	5685.7	5431.7	5132.7	4987.1	4990.0
40°	5655.4	5700.4	5842.1	6033.6	6177.2	6188.9	6034.6	5754.1	5442.4	5292.0	5309.5
42.5°	6043.3	6087.3	6256.4	6473.3	6600.3	6619.8	6439.1	6115.7	5792.2	5670.1	5689.6
45°	6389.2	6424.4	6619.8	6871.9	7030.2	7081.0	6867.0	6529.9	6170.4	6051.2	6056.0
47.5°	6630.6	6676.5	6891.5	7188.5	7419.1	7497.3	7287.2	6933.5	6542.6	6398.0	6410.7
50°	6849.5	6873.9	7091.8	7416.2	7709.3	7870.5	7690.7	7332.1	6918.8	6765.4	6779.1
52.5°	6971.6	7002.9	7213.9	7552.0	7898.9	8158.8	8049.3	7690.7	7282.3	7132.8	7149.4
55°	6886.6	6910.0	7163.1	7582.3	8016.1	8336.6	8353.2	8041.5	7638.9	7508.0	7554.9
57.5°	6499.7	6529.0	6837.7	7386.9	8030.8	8456.8	8581.8	8366.9	7972.1	7865.6	7893.0
60°	5894.8	5913.4	6242.7	6860.2	7745.4	8506.6	8727.4	8632.7	8298.5	8192.0	8229.1
62.5°	4817.1	4844.4	5238.2	6065.8	7142.6	8359.1	8868.1	8852.5	8602.4	8504.7	8537.9
65°	3292.8	3340.7	3776.5	4823.0	6213.4	7907.6	8996.1	9108.5	8871.1	8748.0	8791.9
67.5°	1988.4	2023.6	2339.2	3184.4	4754.6	6997.0	8864.2	9399.7	9060.6	8862.3	8898.4
68°	1777.3	1809.6	2073.4	2873.6	4397.9	6740.0	8744.0	9432.9	9081.1	8860.3	8892.6
70°	1073.8	1095.3	1272.2	1776.4	2932.3	5346.7	7924.3	9405.5	9212.1	8887.7	8906.2
72.5°	699.6	706.4	735.8	911.6	1497.9	2989.9	5947.6	8764.6	9408.5	9046.9	9044.0
75°	581.4	577.5	580.4	600.9	738.7	1311.3	3475.5	6923.7	8968.8	8795.8	8734.3
77.5°	491.5	488.5	487.6	488.5	494.4	633.2	1508.6	4312.9	6863.1	7780.6	7835.3
80°	397.7	393.8	406.5	400.6	383.0	393.8	632.2	1794.0	3235.2	3480.4	3261.6
82.5°	289.2	274.6	329.3	313.6	299.0	277.5	348.8	579.4	771.9	529.6	372.3
85°	222.8	207.1	250.1	240.4	205.2	141.7	207.1	283.4	312.7	178.8	140.7
87.5°	90.9	95.8	180.8	142.7	120.2	68.4	85.0	113.3	152.4	76.2	58.6
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)