

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: P316939

Luminaire Tested: **GLEON-SA5D-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316939
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-SA5D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29407 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

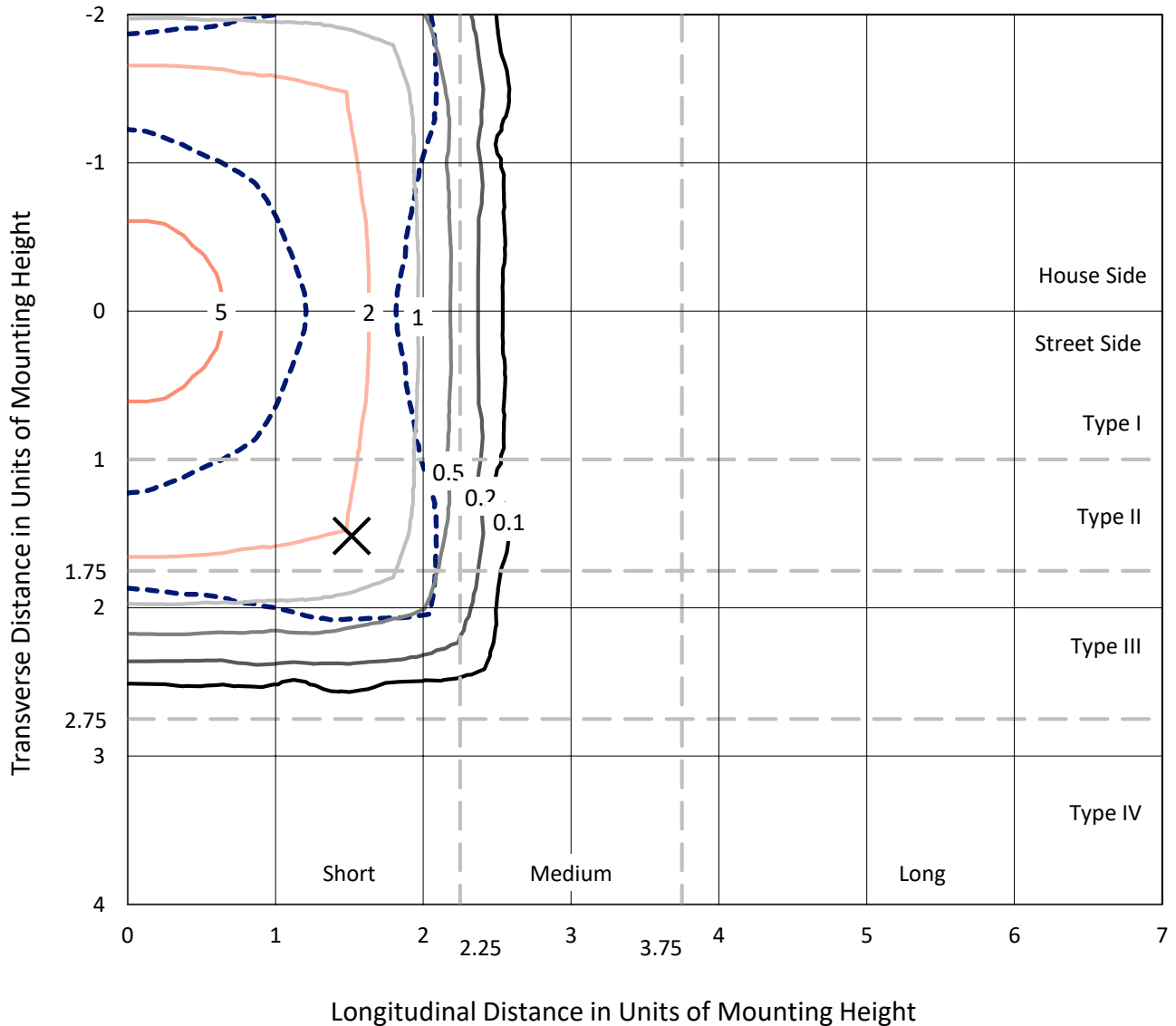
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

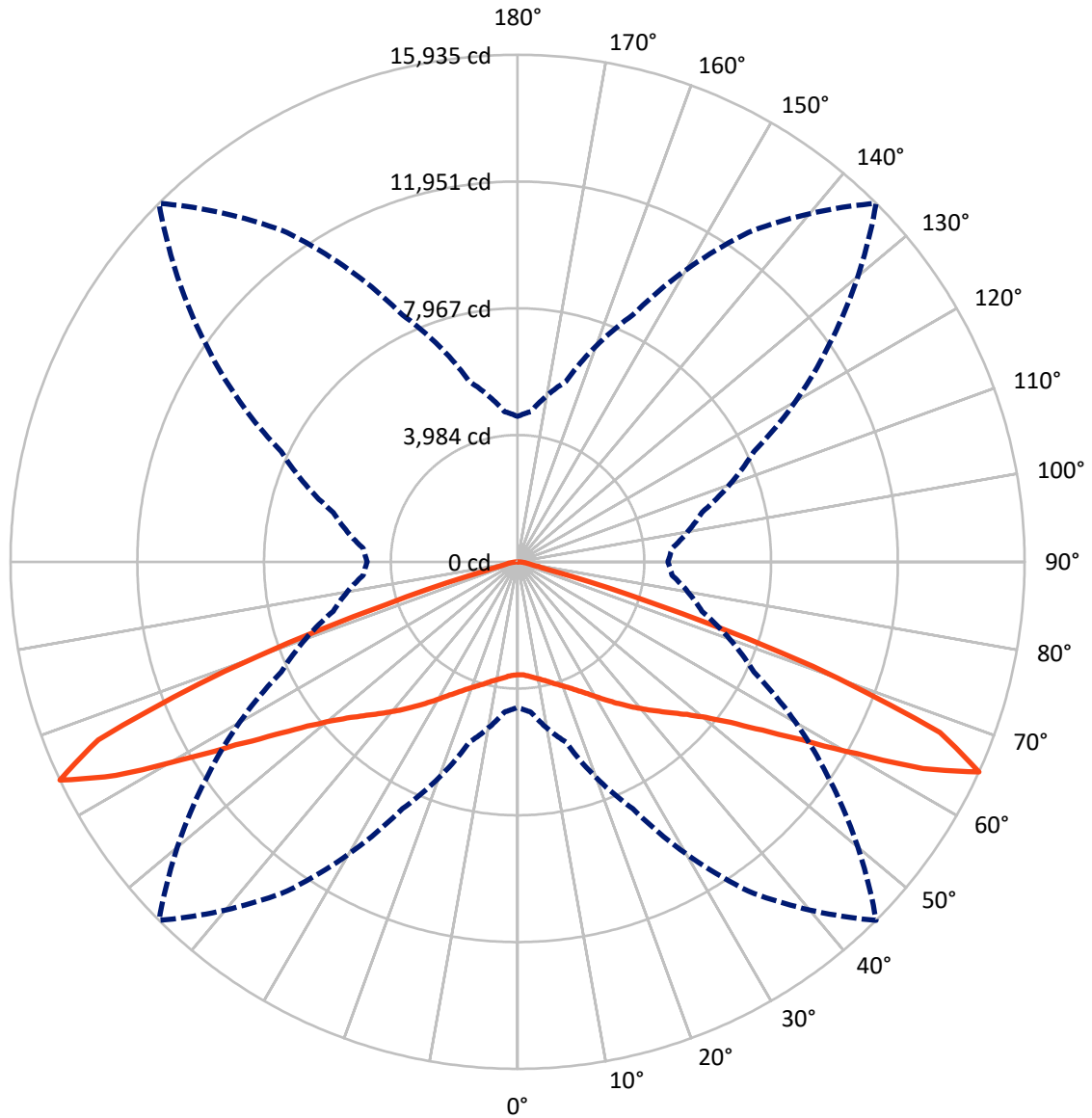
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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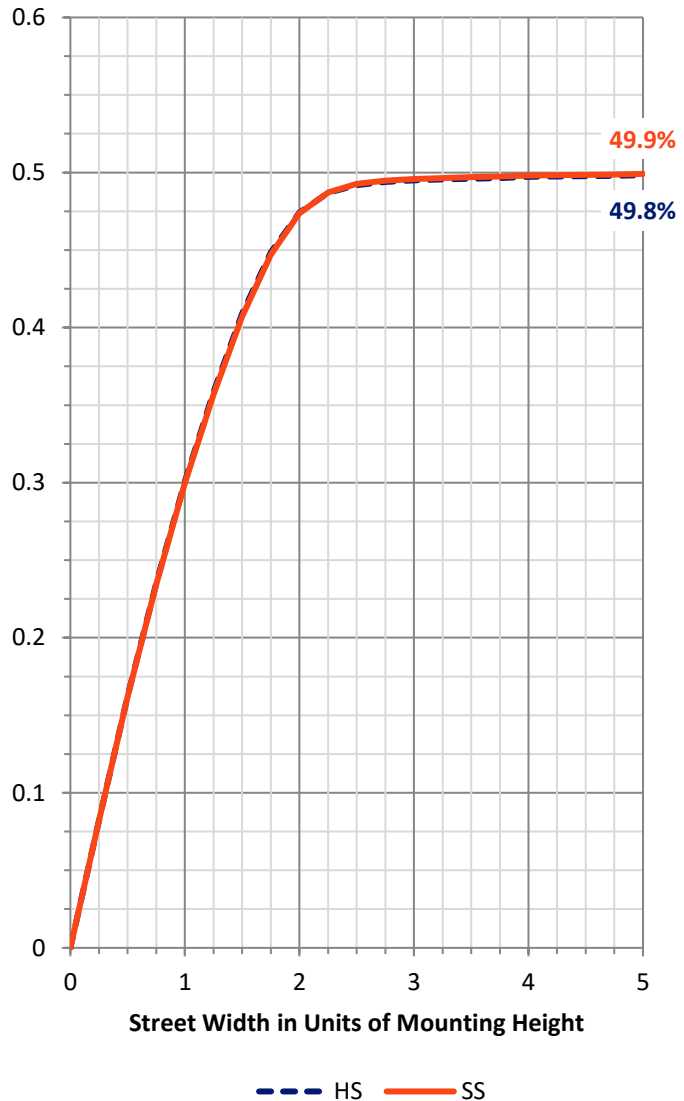
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14703.5	0.0	14703.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14703.5	0.0	14703.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29407.0	0.0	29407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	1.2
10°-20°	1119.9	3.8
20°-30°	2101.2	7.1
30°-40°	3475.0	11.8
40°-50°	5382.3	18.3
50°-60°	8254.9	28.1
60°-70°	7702.8	26.2
70°-80°	896.5	3.0
80°-90°	126.0	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°	29407.0	100.0
0°-180°	29407.0	100.0

Coefficient of Utilization



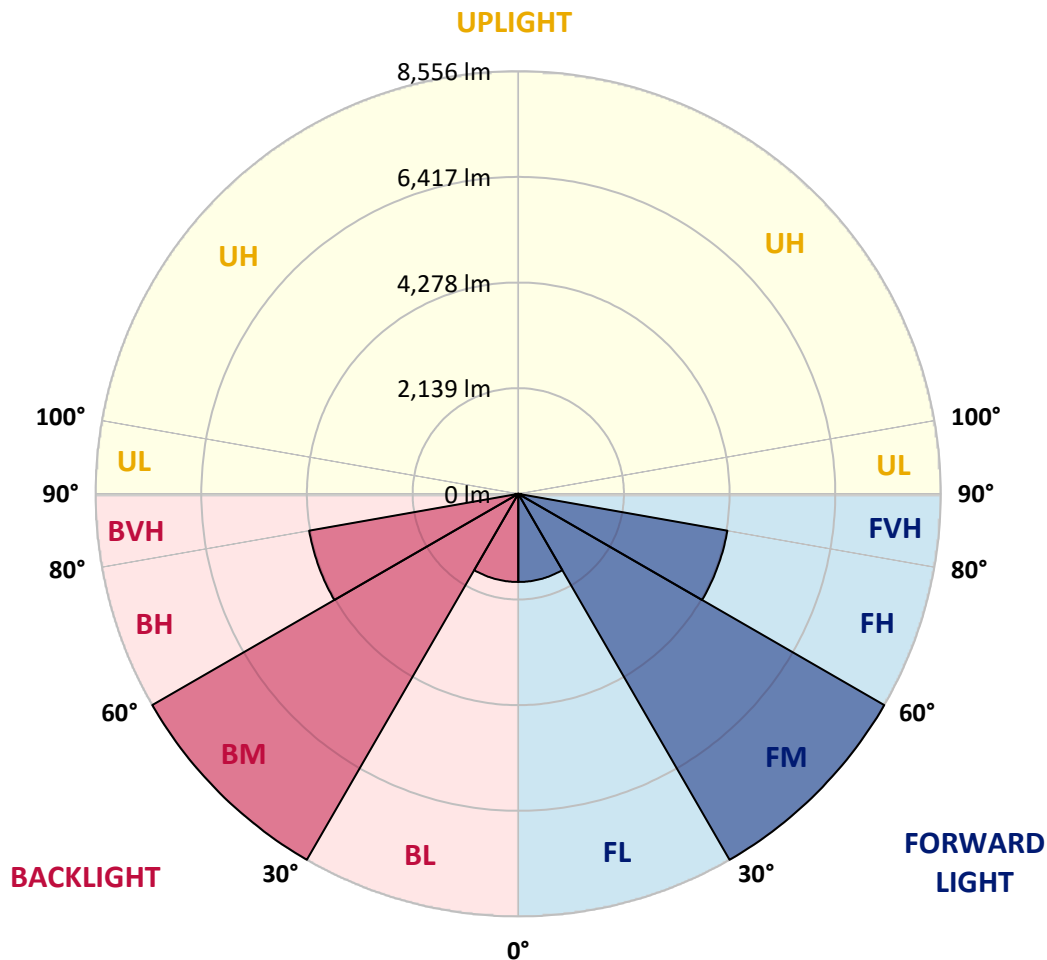
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.8	6.1			
FM (30°-60°)	8556.1	29.1			
FH (60°-80°)	4299.6	14.6			G2/5000
FVH (80°-90°)	63.0	0.2			G1/100
BL (0°-30°)	1784.8	6.1	B3/2500		
BM (30°-60°)	8556.1	29.1	B5		
BH (60°-80°)	4299.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	63.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3551.3	3551.3	3551.3	3551.3	3551.3	3551.3	3551.3	3551.3	3551.3	3551.3	3551.3
2.5°	3563.0	3561.0	3563.0	3564.0	3558.1	3561.0	3560.1	3564.9	3566.9	3564.9	3564.9
5°	3604.0	3601.1	3605.0	3609.8	3602.0	3604.0	3601.1	3606.9	3608.9	3605.0	3607.9
7.5°	3660.6	3661.6	3665.5	3674.3	3669.4	3673.3	3667.4	3668.4	3667.4	3661.6	3662.5
10°	3722.1	3723.1	3729.9	3741.6	3743.6	3743.6	3739.7	3736.7	3732.8	3728.9	3729.9
12.5°	3796.3	3801.2	3806.0	3820.7	3820.7	3828.5	3826.5	3818.7	3811.9	3806.0	3806.0
15°	3896.8	3895.9	3901.7	3916.4	3923.2	3935.9	3935.9	3925.1	3916.4	3910.5	3908.5
17.5°	4002.3	4005.2	4009.1	4026.7	4037.4	4052.0	4054.0	4045.2	4039.3	4031.5	4026.7
20°	4125.2	4130.1	4145.7	4152.6	4162.3	4176.0	4180.9	4178.9	4173.1	4169.2	4170.2
22.5°	4268.7	4281.4	4291.2	4301.0	4312.7	4322.4	4327.3	4334.1	4328.3	4325.4	4323.4
25°	4442.5	4451.3	4470.8	4488.4	4496.2	4499.1	4505.0	4514.7	4513.8	4506.9	4506.9
27.5°	4639.7	4656.3	4680.7	4706.1	4706.1	4696.3	4715.8	4732.4	4726.6	4717.8	4706.1
30°	4878.8	4894.5	4922.8	4957.9	4940.3	4933.5	4959.9	4990.1	4981.3	4966.7	4964.7
32.5°	5136.6	5151.2	5188.3	5226.4	5203.9	5194.1	5222.5	5266.4	5250.8	5221.5	5203.9
35°	5415.7	5430.4	5483.1	5529.0	5490.9	5474.3	5497.7	5545.6	5518.2	5463.6	5449.9
37.5°	5719.3	5727.1	5795.5	5842.3	5816.0	5772.0	5801.3	5836.5	5813.0	5746.6	5720.3
40°	6034.6	6062.9	6142.0	6196.7	6150.8	6081.5	6130.3	6179.1	6143.9	6059.0	6014.1
42.5°	6402.6	6424.1	6529.5	6578.3	6504.1	6406.5	6472.9	6539.3	6504.1	6422.2	6383.1
45°	6785.3	6818.5	6944.4	6993.2	6885.8	6761.9	6842.9	6959.0	6956.1	6838.0	6797.0
47.5°	7202.1	7235.3	7385.6	7450.0	7333.9	7167.9	7282.1	7446.1	7434.4	7304.6	7271.4
50°	7683.4	7718.5	7905.9	7986.9	7878.6	7685.3	7857.1	8001.6	7980.1	7820.0	7822.9
52.5°	8287.6	8285.6	8518.9	8659.5	8548.2	8377.4	8535.5	8676.1	8587.3	8365.7	8358.9
55°	8816.7	8848.9	9137.8	9404.3	9397.5	9332.1	9395.5	9401.4	9147.6	8852.8	8816.7
57.5°	9164.2	9225.7	9632.7	10115.0	10476.1	10563.0	10440.0	10067.1	9472.7	9001.2	8943.6
60°	8950.4	9044.1	9683.5	10666.5	11730.5	12241.0	11547.0	10390.2	9219.8	8562.9	8484.8
62.5°	7507.6	7665.8	8601.9	10400.0	12810.1	14302.7	12349.4	9871.9	8214.4	7309.5	7175.7
65°	4572.3	4739.3	5867.7	8559.9	12635.4	15934.8	11983.3	8193.9	5995.6	4870.1	4725.6
67.5°	1523.8	1572.6	2237.4	4731.4	9930.5	14317.3	9947.1	4905.2	2609.3	1729.8	1679.0
70°	596.4	601.3	709.7	1371.5	4689.5	9833.8	5174.6	1395.9	741.9	586.7	599.4
72.5°	438.3	440.2	470.5	573.0	1222.2	4332.2	1266.1	575.9	457.8	411.0	411.0
75°	352.4	352.4	373.9	417.8	547.6	993.7	555.4	412.9	358.3	328.0	324.1
77.5°	278.2	284.1	300.7	329.0	370.9	478.3	384.6	327.0	288.9	260.6	254.8
80°	206.9	212.8	240.1	253.8	266.5	331.9	284.1	255.8	228.4	195.2	189.4
82.5°	135.7	141.5	175.7	183.5	180.6	216.7	191.3	188.4	167.9	125.9	120.1
85°	88.8	90.8	117.1	122.0	112.3	98.6	122.0	128.9	117.1	82.0	79.1
87.5°	42.0	42.0	59.5	55.6	50.8	41.0	55.6	65.4	66.4	40.0	39.0
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)