

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: P316594

Luminaire Tested: **GLEON-SA0A-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316594  
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-SA0A-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35622 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

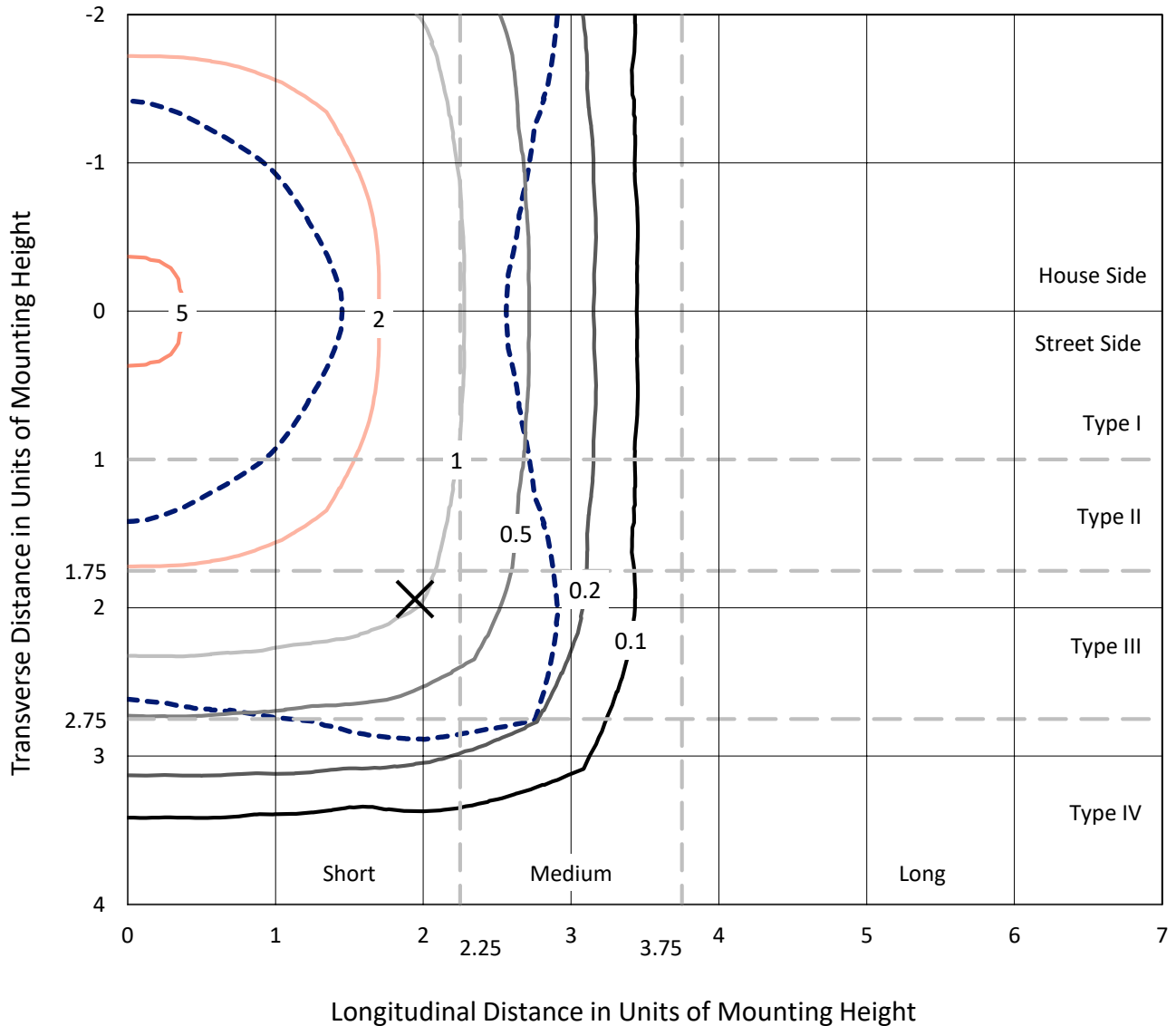
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

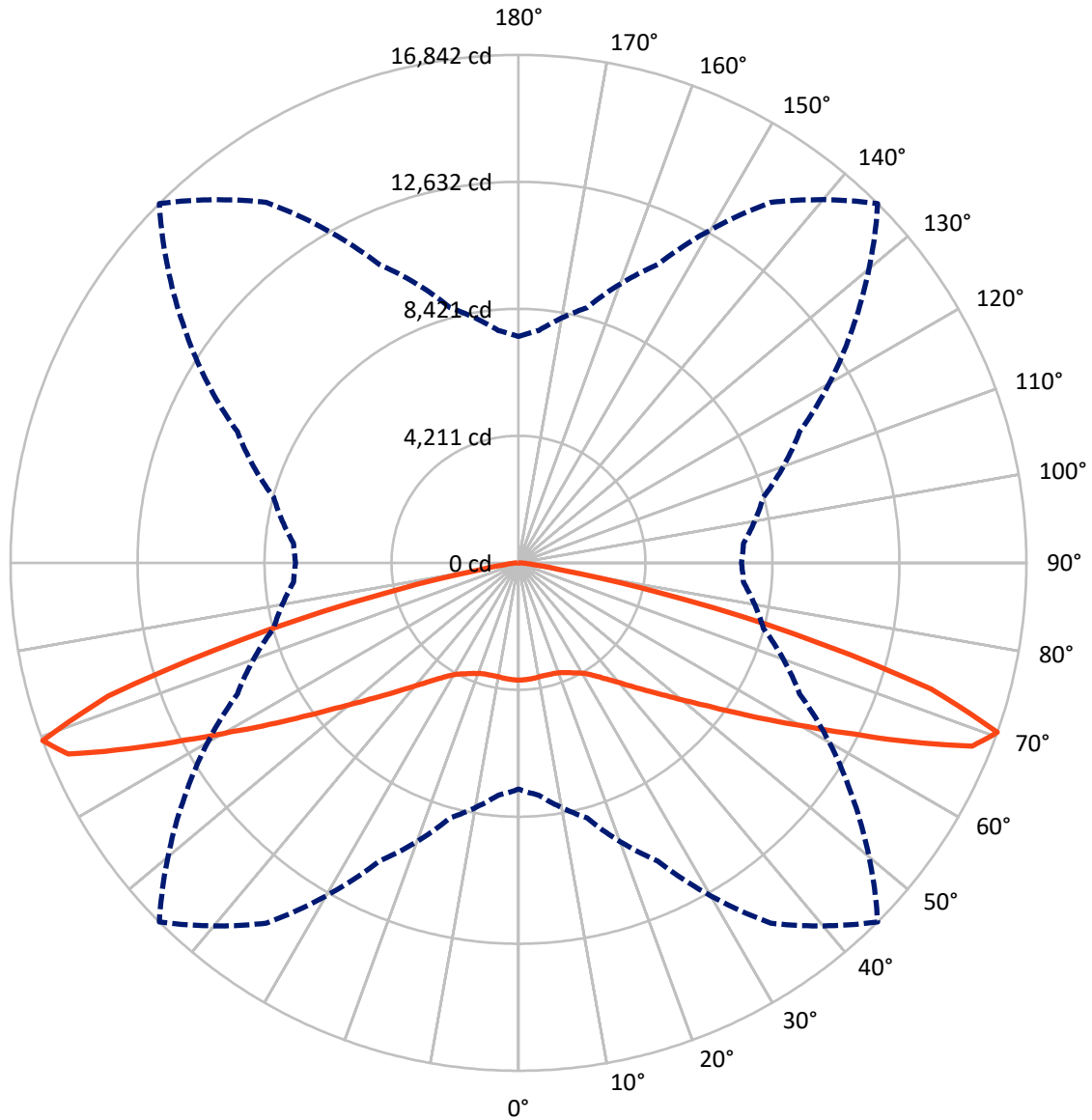
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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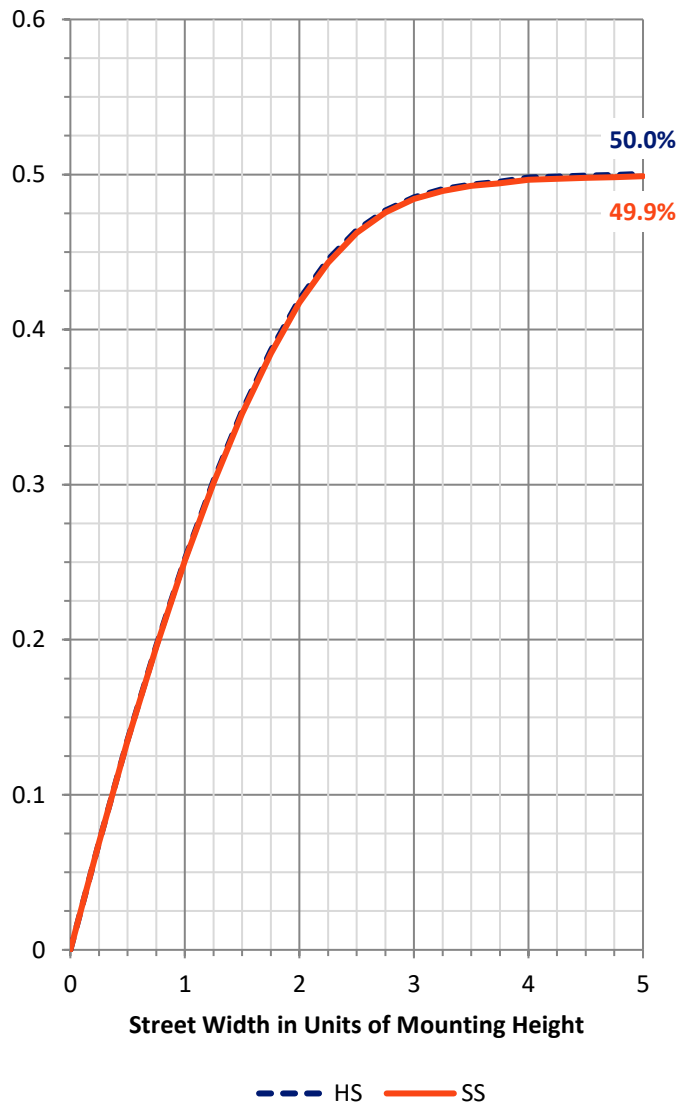
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17811.0	0.0	17811.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17811.0	0.0	17811.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35622.0	0.0	35622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.5	1.0
10°-20°	1081.7	3.0
20°-30°	1841.5	5.2
30°-40°	2920.5	8.2
40°-50°	4752.6	13.3
50°-60°	7836.2	22.0
60°-70°	11503.7	32.3
70°-80°	5086.9	14.3
80°-90°	230.4	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°	35622.0	100.0
0°-180°	35622.0	100.0

**Coefficient of Utilization**

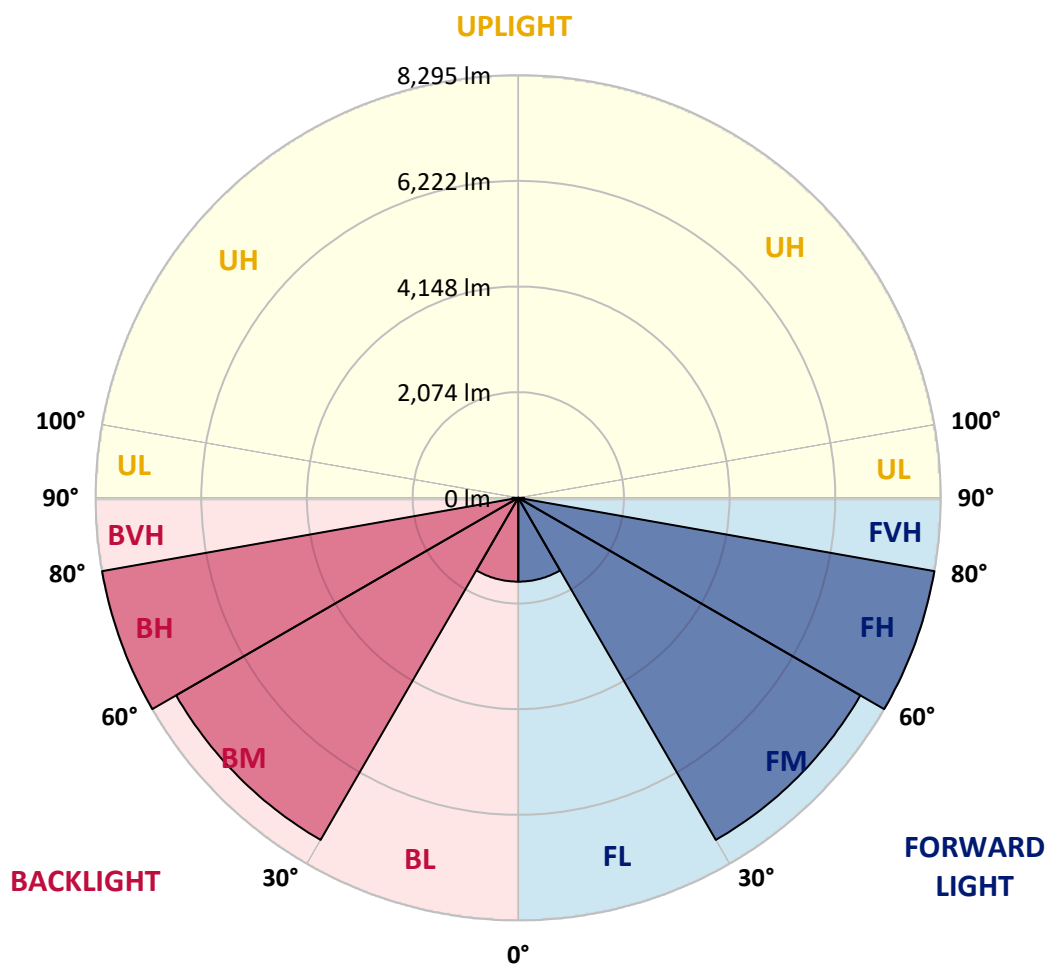


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.8	4.6			
FM (30°-60°)	7754.7	21.8			
FH (60°-80°)	8295.3	23.3			G4/12000
FVH (80°-90°)	115.2	0.3			G2/225
BL (0°-30°)	1645.8	4.6	B3/2500		
BM (30°-60°)	7754.7	21.8	B4/8500		
BH (60°-80°)	8295.3	23.3	B5		G4/12000
BVH (80°-90°)	115.2	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-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5
2.5°	3884.6	3881.0	3889.3	3888.1	3881.0	3882.2	3882.2	3885.8	3885.8	3883.4	3883.4
5°	3870.4	3868.1	3877.5	3877.5	3870.4	3872.8	3875.2	3878.7	3877.5	3875.2	3874.0
7.5°	3852.8	3851.6	3861.0	3861.0	3856.3	3858.6	3856.3	3857.5	3855.1	3852.8	3849.2
10°	3823.3	3825.6	3833.9	3836.2	3836.2	3837.4	3835.1	3829.2	3825.6	3822.1	3818.6
12.5°	3796.2	3795.0	3806.8	3812.7	3822.1	3832.7	3825.6	3809.1	3802.1	3795.0	3792.6
15°	3778.5	3779.7	3791.4	3802.1	3818.6	3841.0	3832.7	3806.8	3792.6	3784.4	3782.0
17.5°	3774.9	3777.3	3792.6	3811.5	3829.2	3853.9	3849.2	3823.3	3799.7	3784.4	3780.8
20°	3783.2	3784.4	3808.0	3835.1	3865.7	3889.3	3878.7	3850.4	3818.6	3795.0	3789.1
22.5°	3798.5	3803.2	3832.7	3875.2	3922.3	3954.1	3941.2	3892.8	3843.3	3813.8	3805.6
25°	3846.9	3848.0	3888.1	3945.9	4002.5	4039.0	4023.7	3955.3	3891.7	3858.6	3848.0
27.5°	3947.1	3950.6	3990.7	4057.9	4106.2	4129.8	4120.4	4065.0	4010.7	3975.4	3978.9
30°	4092.1	4096.8	4141.6	4215.9	4245.3	4251.2	4248.9	4222.9	4173.4	4126.3	4129.8
32.5°	4268.9	4271.3	4331.4	4398.6	4422.2	4426.9	4422.2	4398.6	4339.6	4276.0	4279.5
35°	4496.4	4503.5	4561.3	4626.1	4645.0	4654.4	4646.2	4615.5	4554.2	4491.7	4489.4
37.5°	4777.0	4778.2	4838.3	4905.5	4929.1	4931.5	4922.0	4902.0	4825.4	4768.8	4765.2
40°	5102.4	5107.1	5177.9	5249.8	5259.2	5248.6	5261.6	5249.8	5170.8	5106.0	5116.6
42.5°	5498.5	5509.2	5594.0	5664.8	5637.7	5631.8	5640.0	5643.5	5579.9	5500.9	5493.8
45°	5959.5	5968.9	6075.0	6131.6	6113.9	6075.0	6091.5	6119.8	6031.4	5933.6	5943.0
47.5°	6485.3	6508.9	6622.1	6675.1	6631.5	6578.4	6610.3	6652.7	6549.0	6427.5	6421.6
50°	7070.1	7099.5	7250.4	7324.7	7281.1	7183.2	7236.3	7264.6	7114.9	6958.1	6945.1
52.5°	7693.7	7723.2	7913.0	8066.3	8038.0	7885.9	7960.2	7930.7	7758.6	7547.5	7531.0
55°	8399.9	8411.7	8616.8	8864.4	8892.7	8780.7	8776.0	8727.6	8473.0	8228.9	8217.2
57.5°	9126.1	9134.4	9399.6	9692.0	9825.2	9825.2	9693.2	9590.6	9252.3	8969.3	8939.8
60°	9910.1	9939.6	10233.1	10630.4	10941.7	11033.6	10800.2	10520.8	10153.0	9807.5	9773.3
62.5°	10608.0	10642.2	11091.4	11683.2	12183.1	12517.9	11947.3	11492.2	10822.6	10268.5	10203.7
65°	10696.5	10788.4	11442.7	12514.4	13633.2	14301.6	13207.6	12086.4	10866.2	10096.4	10030.4
67.5°	9768.6	9924.3	10808.5	12476.6	14788.5	16223.3	14012.8	11746.9	10083.4	9232.2	9159.1
70°	7506.3	7732.6	8752.4	10913.4	14589.3	16842.2	13508.2	10283.8	8407.0	7490.9	7388.4
72.5°	4118.0	4211.1	5128.4	7473.3	11696.2	14312.2	11267.1	7604.1	5575.2	4536.5	4364.4
75°	1306.3	1339.3	1806.1	3058.2	6616.2	9479.8	7157.3	3732.5	2054.9	1514.9	1497.2
77.5°	580.0	583.6	653.1	892.5	2278.9	4803.0	2737.5	1016.2	700.3	611.9	631.9
80°	366.6	366.6	404.4	442.1	620.1	1394.7	740.4	483.4	412.6	383.2	391.4
82.5°	175.7	194.5	262.9	282.9	340.7	469.2	379.6	316.0	275.9	205.1	191.0
85°	115.5	96.7	166.2	187.5	198.1	225.2	220.5	208.7	180.4	102.6	114.4
87.5°	51.9	49.5	86.1	79.0	74.3	56.6	84.9	104.9	101.4	50.7	50.7
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)