

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: P316938

Luminaire Tested: **GLEON-SA4D-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316938
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-SA4D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23735 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

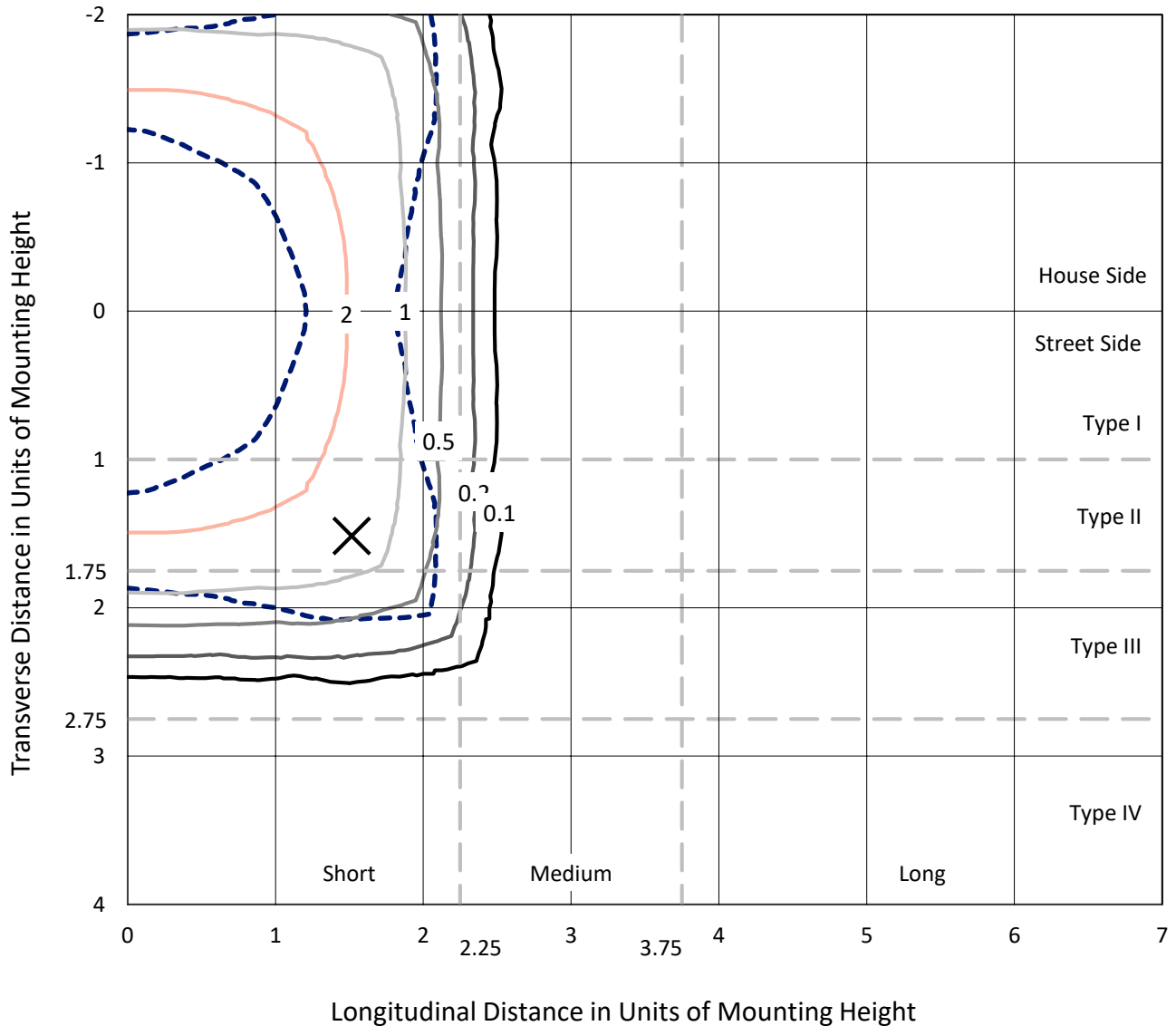
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

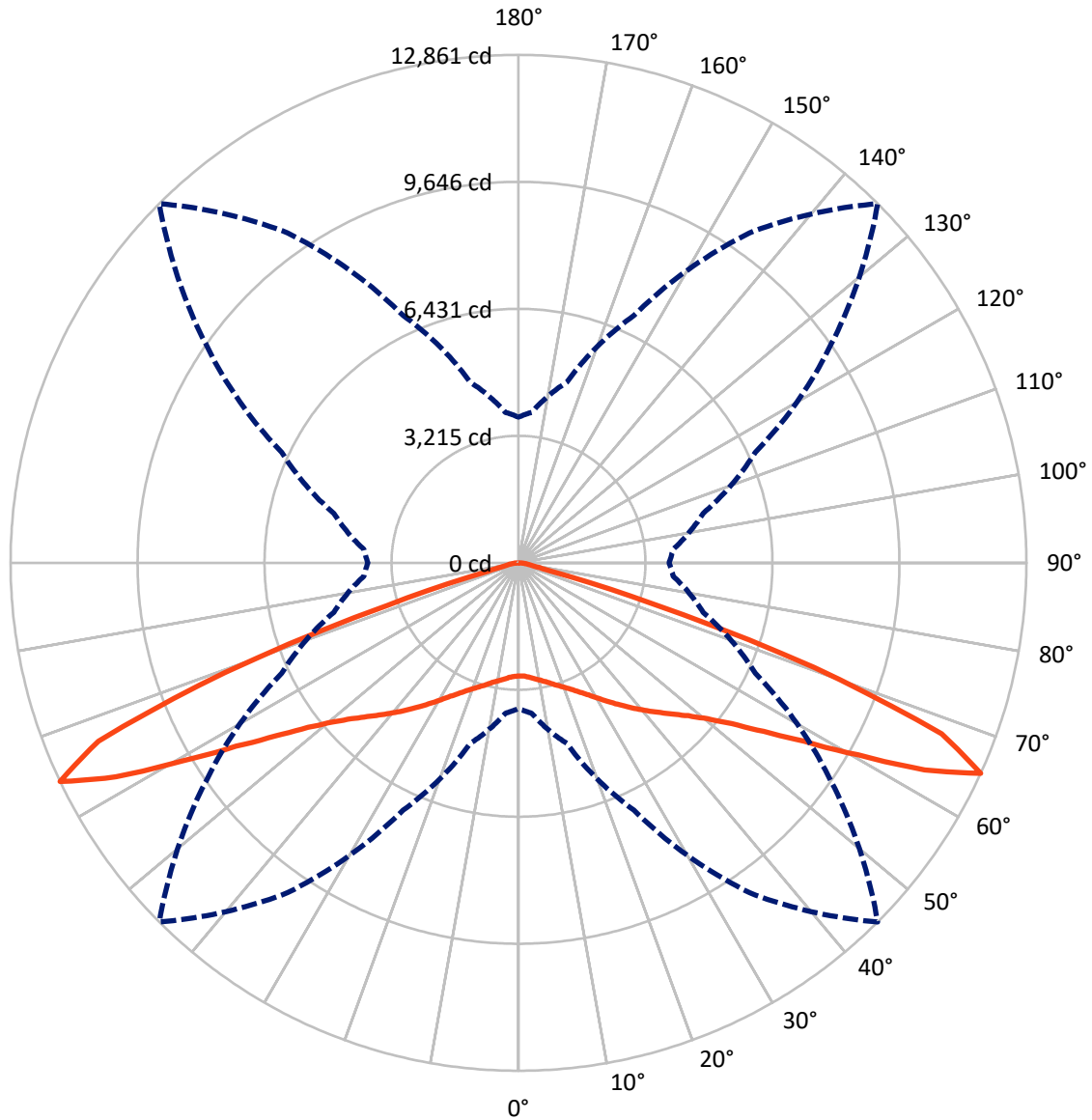
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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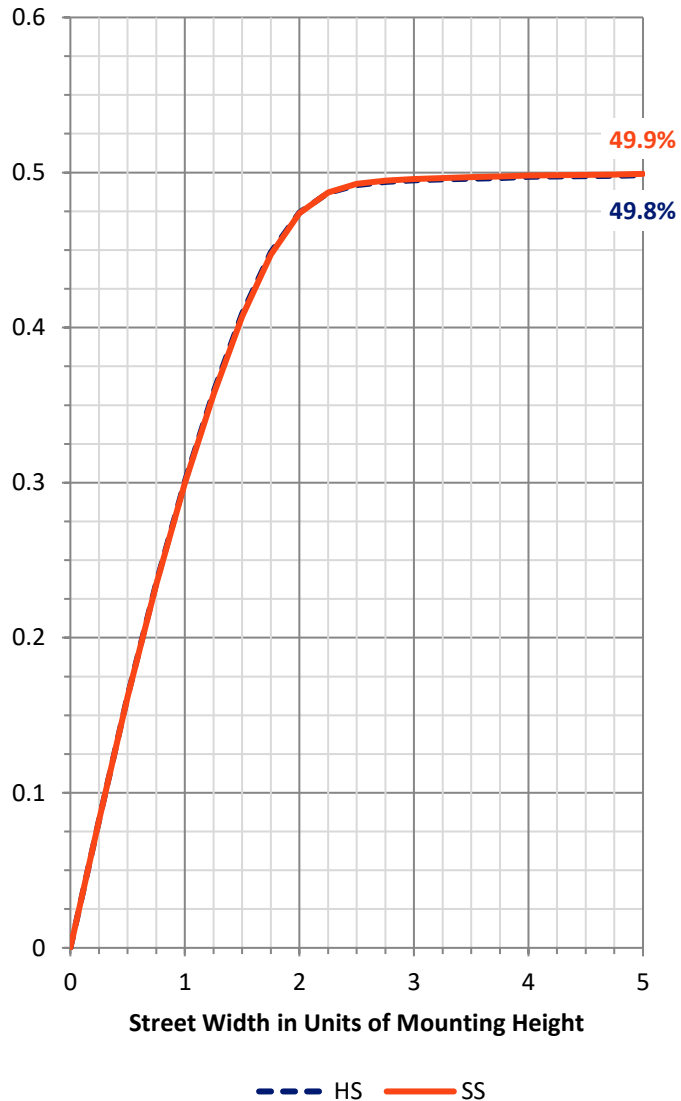
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11867.5	0.0	11867.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11867.5	0.0	11867.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23735.0	0.0	23735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	1.2
10°-20°	903.9	3.8
20°-30°	1695.9	7.1
30°-40°	2804.7	11.8
40°-50°	4344.2	18.3
50°-60°	6662.7	28.1
60°-70°	6217.1	26.2
70°-80°	723.6	3.0
80°-90°	101.7	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°	23735.0	100.0
0°-180°	23735.0	100.0

Coefficient of Utilization

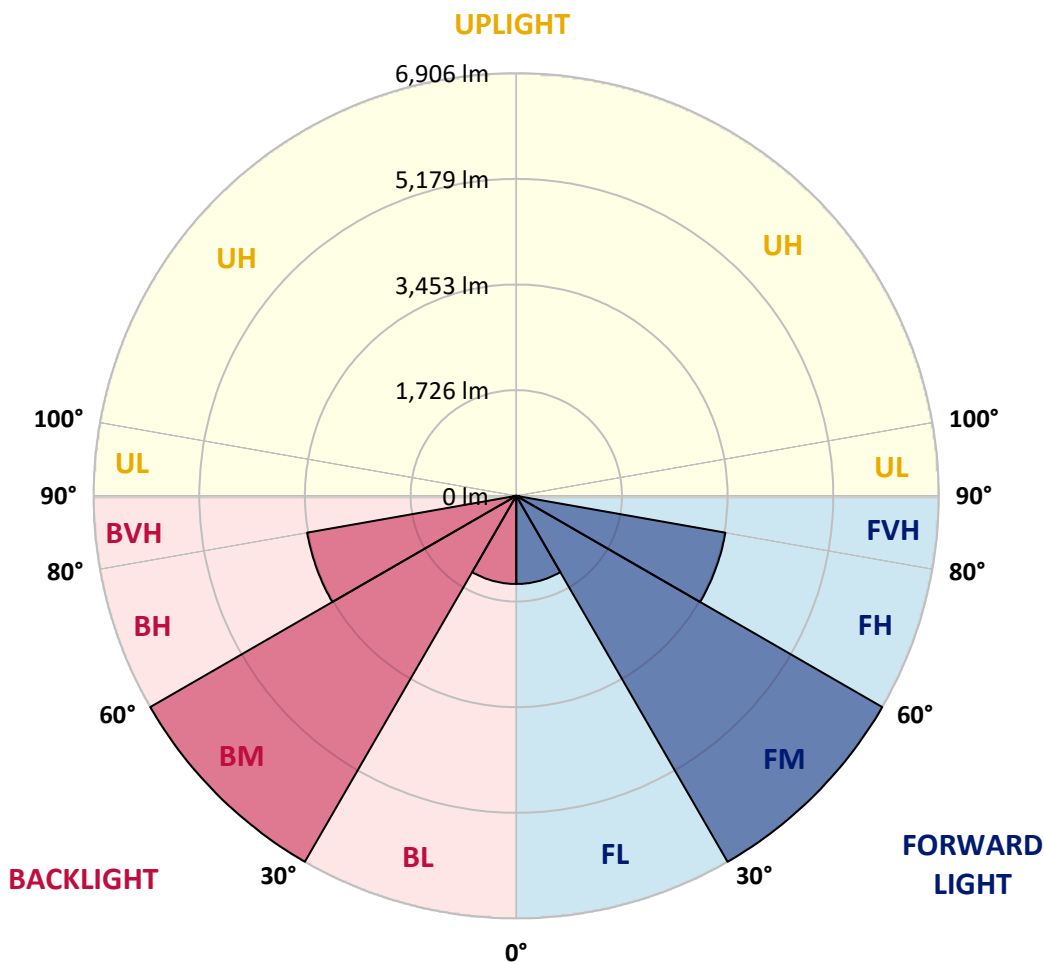


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.5	6.1			
FM (30°-60°)	6905.8	29.1			
FH (60°-80°)	3470.3	14.6			G2/5000
FVH (80°-90°)	50.8	0.2			G1/100
BL (0°-30°)	1440.5	6.1	B3/2500		
BM (30°-60°)	6905.8	29.1	B4/8500		
BH (60°-80°)	3470.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	50.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3
2.5°	2875.8	2874.2	2875.8	2876.5	2871.8	2874.2	2873.4	2877.3	2878.9	2877.3	2877.3
5°	2908.8	2906.5	2909.6	2913.6	2907.3	2908.8	2906.5	2911.2	2912.8	2909.6	2912.0
7.5°	2954.5	2955.3	2958.5	2965.6	2961.6	2964.8	2960.1	2960.8	2960.1	2955.3	2956.1
10°	3004.2	3005.0	3010.5	3019.9	3021.5	3021.5	3018.4	3016.0	3012.8	3009.7	3010.5
12.5°	3064.1	3068.0	3071.9	3083.8	3083.8	3090.1	3088.5	3082.2	3076.7	3071.9	3071.9
15°	3145.2	3144.4	3149.2	3161.0	3166.5	3176.7	3176.7	3168.1	3161.0	3156.2	3154.7
17.5°	3230.3	3232.7	3235.8	3250.0	3258.7	3270.5	3272.1	3265.0	3260.2	3253.9	3250.0
20°	3329.6	3333.5	3346.1	3351.6	3359.5	3370.5	3374.5	3372.9	3368.2	3365.0	3365.8
22.5°	3445.4	3455.6	3463.5	3471.4	3480.8	3488.7	3492.7	3498.2	3493.5	3491.1	3489.5
25°	3585.6	3592.7	3608.5	3622.7	3629.0	3631.3	3636.1	3643.9	3643.1	3637.6	3637.6
27.5°	3744.8	3758.2	3777.9	3798.4	3798.4	3790.5	3806.2	3819.6	3814.9	3807.8	3798.4
30°	3937.8	3950.4	3973.3	4001.6	3987.5	3981.9	4003.2	4027.6	4020.5	4008.7	4007.1
32.5°	4145.8	4157.6	4187.6	4218.3	4200.2	4192.3	4215.1	4250.6	4238.0	4214.4	4200.2
35°	4371.1	4383.0	4425.5	4462.5	4431.8	4418.4	4437.3	4475.9	4453.9	4409.8	4398.7
37.5°	4616.2	4622.5	4677.6	4715.5	4694.2	4658.7	4682.4	4710.7	4691.8	4638.2	4617.0
40°	4870.7	4893.5	4957.3	5001.5	4964.4	4908.5	4947.9	4987.3	4958.9	4890.4	4854.1
42.5°	5167.7	5185.0	5270.1	5309.5	5249.6	5170.8	5224.4	5278.0	5249.6	5183.5	5151.9
45°	5476.5	5503.3	5605.0	5644.4	5557.7	5457.6	5523.0	5616.8	5614.4	5519.1	5486.0
47.5°	5813.0	5839.8	5961.1	6013.1	5919.3	5785.4	5877.6	6009.9	6000.5	5895.7	5868.9
50°	6201.4	6229.8	6381.0	6446.4	6359.0	6203.0	6341.6	6458.2	6440.9	6311.7	6314.1
52.5°	6689.1	6687.5	6875.8	6989.3	6899.5	6761.6	6889.2	7002.7	6931.0	6752.1	6746.6
55°	7116.1	7142.1	7375.3	7590.4	7584.9	7532.1	7583.3	7588.1	7383.2	7145.3	7116.1
57.5°	7396.6	7446.2	7774.8	8164.0	8455.5	8525.6	8426.4	8125.4	7645.6	7265.0	7218.5
60°	7224.1	7299.7	7815.8	8609.1	9467.9	9880.0	9319.8	8386.2	7441.5	6911.3	6848.2
62.5°	6059.6	6187.2	6942.8	8394.1	10339.3	11544.0	9967.5	7967.8	6630.0	5899.6	5791.7
65°	3690.4	3825.1	4735.9	6908.9	10198.3	12861.3	9672.0	6613.5	4839.1	3930.7	3814.1
67.5°	1229.9	1269.3	1805.8	3818.8	8015.1	11555.8	8028.5	3959.1	2106.0	1396.1	1355.2
70°	481.4	485.3	572.8	1107.0	3785.0	7937.1	4176.5	1126.7	598.8	473.5	483.8
72.5°	353.8	355.3	379.8	462.5	986.4	3496.6	1021.9	464.8	369.5	331.7	331.7
75°	284.4	284.4	301.8	337.2	442.0	802.1	448.3	333.3	289.2	264.7	261.6
77.5°	224.5	229.3	242.7	265.5	299.4	386.1	310.4	263.9	233.2	210.4	205.6
80°	167.0	171.8	193.8	204.8	215.1	267.9	229.3	206.4	184.4	157.6	152.8
82.5°	109.5	114.2	141.8	148.1	145.8	174.9	154.4	152.1	135.5	101.6	96.9
85°	71.7	73.3	94.5	98.5	90.6	79.6	98.5	104.0	94.5	66.2	63.8
87.5°	33.9	33.9	48.1	44.9	41.0	33.1	44.9	52.8	53.6	32.3	31.5
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)