

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: P316928

Luminaire Tested: **GLEON-SA4C-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316928
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-SA4C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21635 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

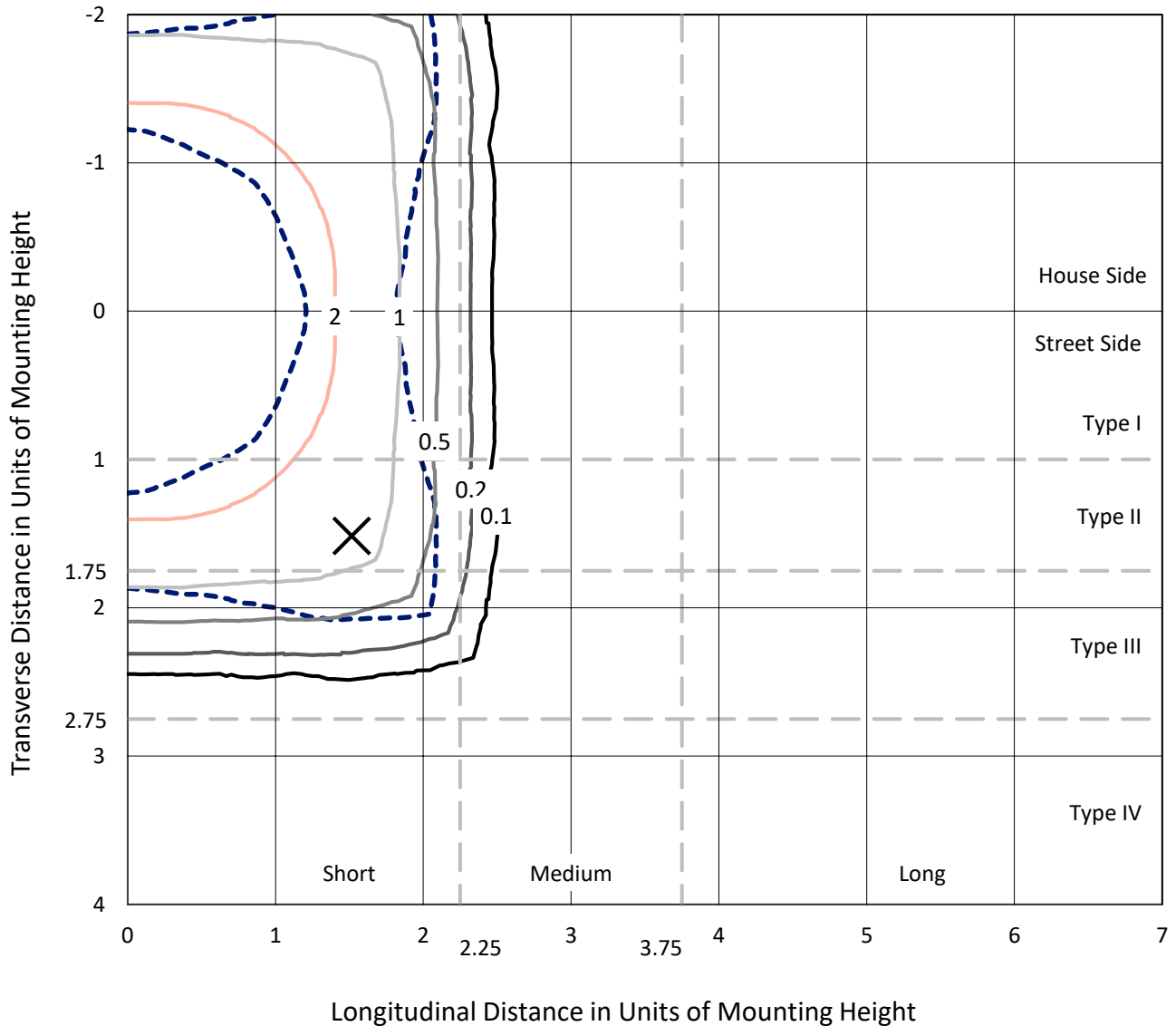
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

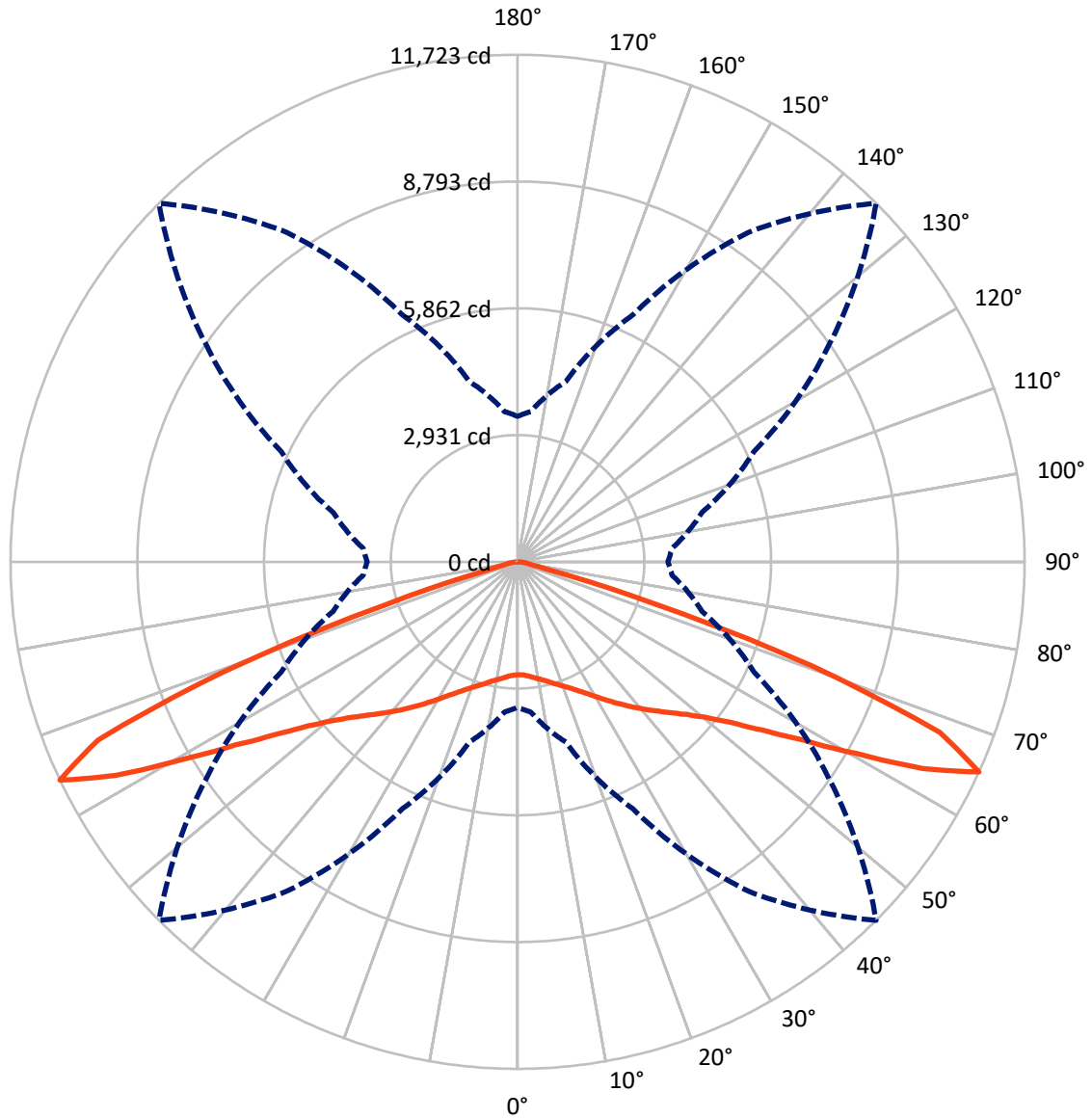
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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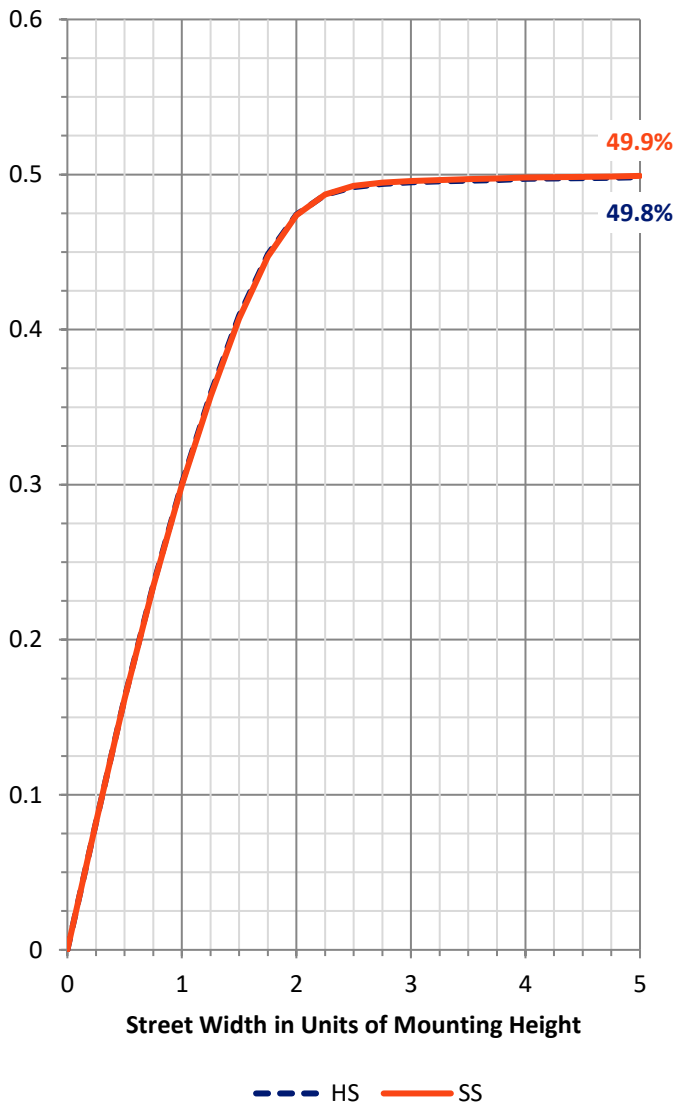
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10817.5	0.0	10817.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10817.5	0.0	10817.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21635.0	0.0	21635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.2
10°-20°	823.9	3.8
20°-30°	1545.9	7.1
30°-40°	2556.6	11.8
40°-50°	3959.8	18.3
50°-60°	6073.2	28.1
60°-70°	5667.0	26.2
70°-80°	659.6	3.0
80°-90°	92.7	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°	21635.0	100.0
0°-180°	21635.0	100.0

Coefficient of Utilization

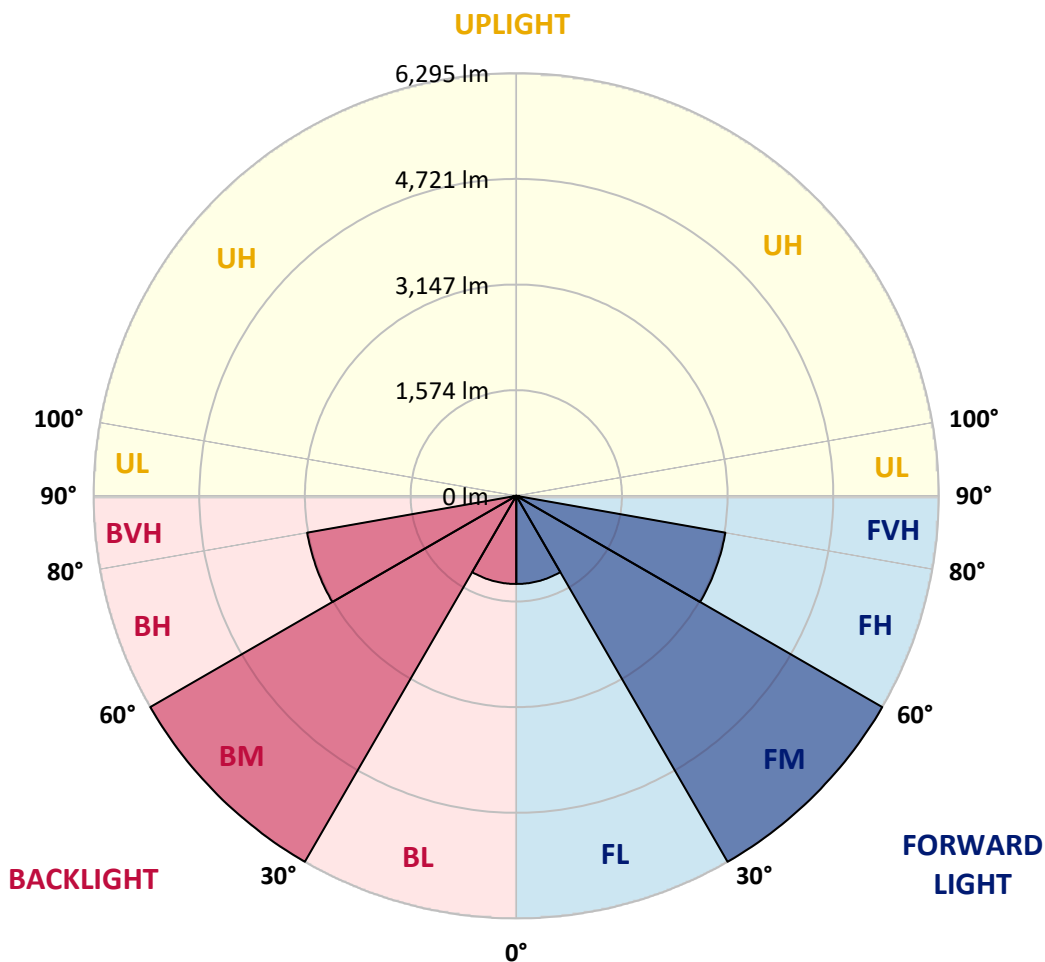


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.1	6.1			
FM (30°-60°)	6294.8	29.1			
FH (60°-80°)	3163.3	14.6			G2/5000
FVH (80°-90°)	46.3	0.2			G1/100
BL (0°-30°)	1313.1	6.1	B3/2500		
BM (30°-60°)	6294.8	29.1	B4/8500		
BH (60°-80°)	3163.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	46.3	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°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2621.3	2619.9	2621.3	2622.0	2617.7	2619.9	2619.2	2622.8	2624.2	2622.8	2622.8
5°	2651.5	2649.3	2652.2	2655.8	2650.0	2651.5	2649.3	2653.6	2655.1	2652.2	2654.4
7.5°	2693.1	2693.9	2696.7	2703.2	2699.6	2702.5	2698.2	2698.9	2698.2	2693.9	2694.6
10°	2738.4	2739.1	2744.1	2752.7	2754.2	2754.2	2751.3	2749.2	2746.3	2743.4	2744.1
12.5°	2793.0	2796.6	2800.1	2810.9	2810.9	2816.7	2815.2	2809.5	2804.5	2800.1	2800.1
15°	2866.9	2866.2	2870.5	2881.3	2886.3	2895.7	2895.7	2887.8	2881.3	2877.0	2875.6
17.5°	2944.5	2946.6	2949.5	2962.4	2970.3	2981.1	2982.6	2976.1	2971.8	2966.0	2962.4
20°	3035.0	3038.6	3050.1	3055.1	3062.3	3072.3	3075.9	3074.5	3070.2	3067.3	3068.0
22.5°	3140.6	3149.9	3157.1	3164.3	3172.9	3180.1	3183.6	3188.7	3184.4	3182.2	3180.8
25°	3268.4	3274.9	3289.2	3302.1	3307.9	3310.0	3314.4	3321.5	3320.8	3315.8	3315.8
27.5°	3413.5	3425.7	3443.6	3462.3	3462.3	3455.1	3469.5	3481.7	3477.4	3470.9	3462.3
30°	3589.4	3600.9	3621.7	3647.6	3634.7	3629.6	3649.0	3671.3	3664.8	3654.0	3652.6
32.5°	3779.0	3789.8	3817.1	3845.1	3828.6	3821.4	3842.2	3874.5	3863.0	3841.5	3828.6
35°	3984.4	3995.2	4034.0	4067.7	4039.7	4027.5	4044.7	4079.9	4059.8	4019.6	4009.5
37.5°	4207.8	4213.5	4263.8	4298.2	4278.9	4246.5	4268.1	4293.9	4276.7	4227.9	4208.5
40°	4439.7	4460.6	4518.7	4558.9	4525.2	4474.2	4510.1	4546.0	4520.2	4457.7	4424.6
42.5°	4710.5	4726.3	4803.8	4839.7	4785.2	4713.3	4762.2	4811.0	4785.2	4724.8	4696.1
45°	4992.0	5016.4	5109.1	5145.0	5066.0	4974.8	5034.4	5119.8	5117.7	5030.8	5000.6
47.5°	5298.7	5323.1	5433.7	5481.1	5395.6	5273.5	5357.5	5478.2	5469.6	5374.1	5349.6
50°	5652.7	5678.6	5816.5	5876.1	5796.3	5654.1	5780.5	5886.8	5871.0	5753.3	5755.4
52.5°	6097.3	6095.8	6267.5	6370.9	6289.0	6163.3	6279.7	6383.1	6317.7	6154.7	6149.7
55°	6486.5	6510.2	6722.8	6918.8	6913.8	6865.7	6912.4	6916.7	6730.0	6513.1	6486.5
57.5°	6742.2	6787.4	7086.9	7441.7	7707.4	7771.3	7680.8	7406.5	6969.1	6622.2	6579.9
60°	6584.9	6653.8	7124.2	7847.4	8630.2	9005.8	8495.2	7644.2	6783.1	6299.8	6242.3
62.5°	5523.4	5639.8	6328.5	7651.4	9424.5	10522.6	9085.6	7262.8	6043.4	5377.7	5279.3
65°	3363.9	3486.7	4316.9	6297.6	9296.0	11723.4	8816.2	6028.3	4411.0	3582.9	3476.7
67.5°	1121.1	1157.0	1646.0	3481.0	7305.9	10533.4	7318.1	3608.8	1919.7	1272.6	1235.3
70°	438.8	442.4	522.1	1009.0	3450.1	7234.8	3807.0	1027.0	545.8	431.6	441.0
72.5°	322.5	323.9	346.2	421.6	899.1	3187.2	931.5	423.7	336.8	302.3	302.3
75°	259.3	259.3	275.1	307.4	402.9	731.1	408.6	303.8	263.6	241.3	238.4
77.5°	204.7	209.0	221.2	242.0	272.9	351.9	283.0	240.6	212.6	191.8	187.4
80°	152.3	156.6	176.7	186.7	196.1	244.2	209.0	188.2	168.1	143.6	139.3
82.5°	99.8	104.1	129.3	135.0	132.9	159.4	140.8	138.6	123.5	92.6	88.3
85°	65.4	66.8	86.2	89.8	82.6	72.5	89.8	94.8	86.2	60.3	58.2
87.5°	30.9	30.9	43.8	40.9	37.3	30.2	40.9	48.1	48.8	29.4	28.7
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)