

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: P383158

Luminaire Tested: **GLEON-SA5A-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383158
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-SA5A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 22793.1 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

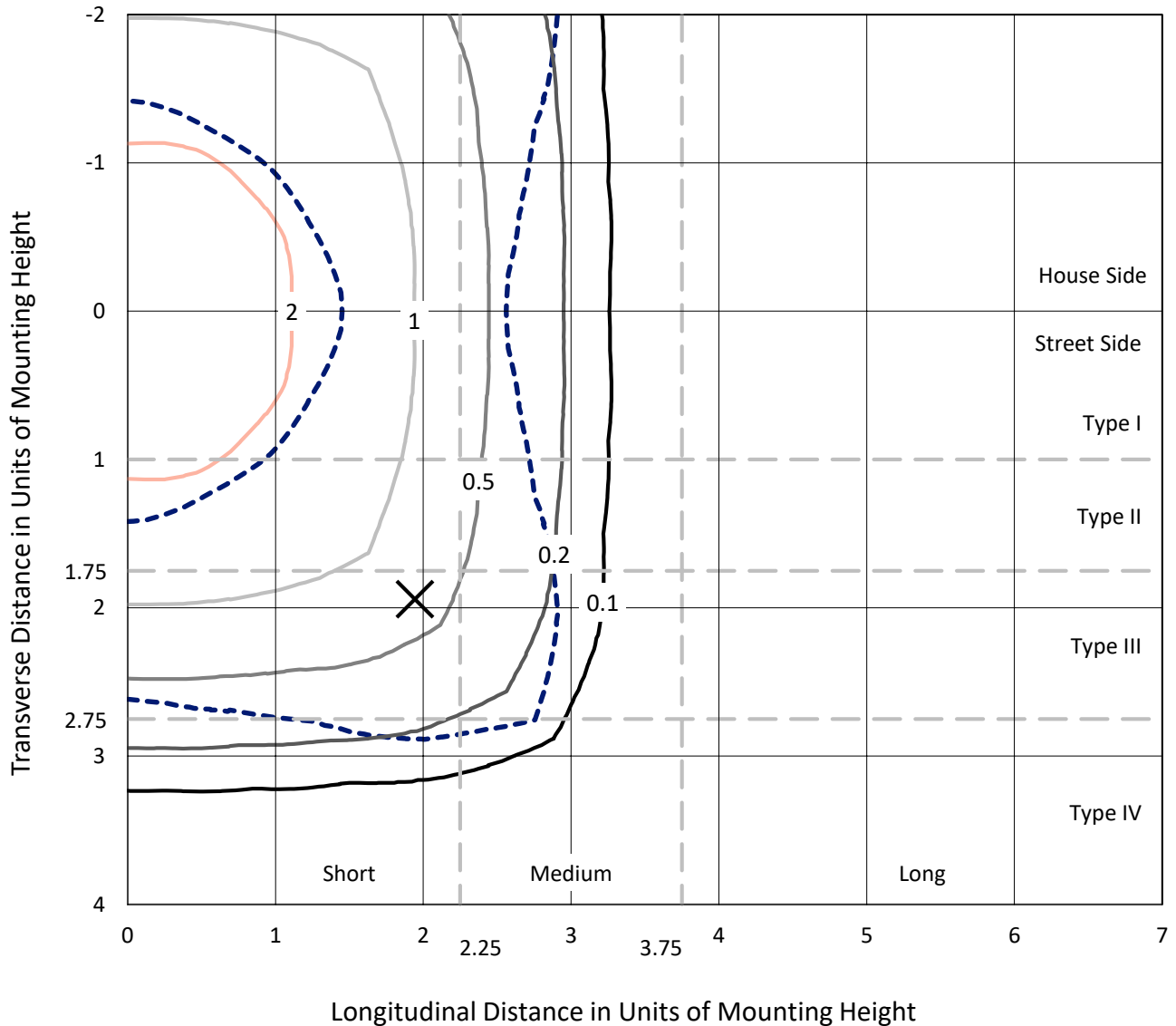
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

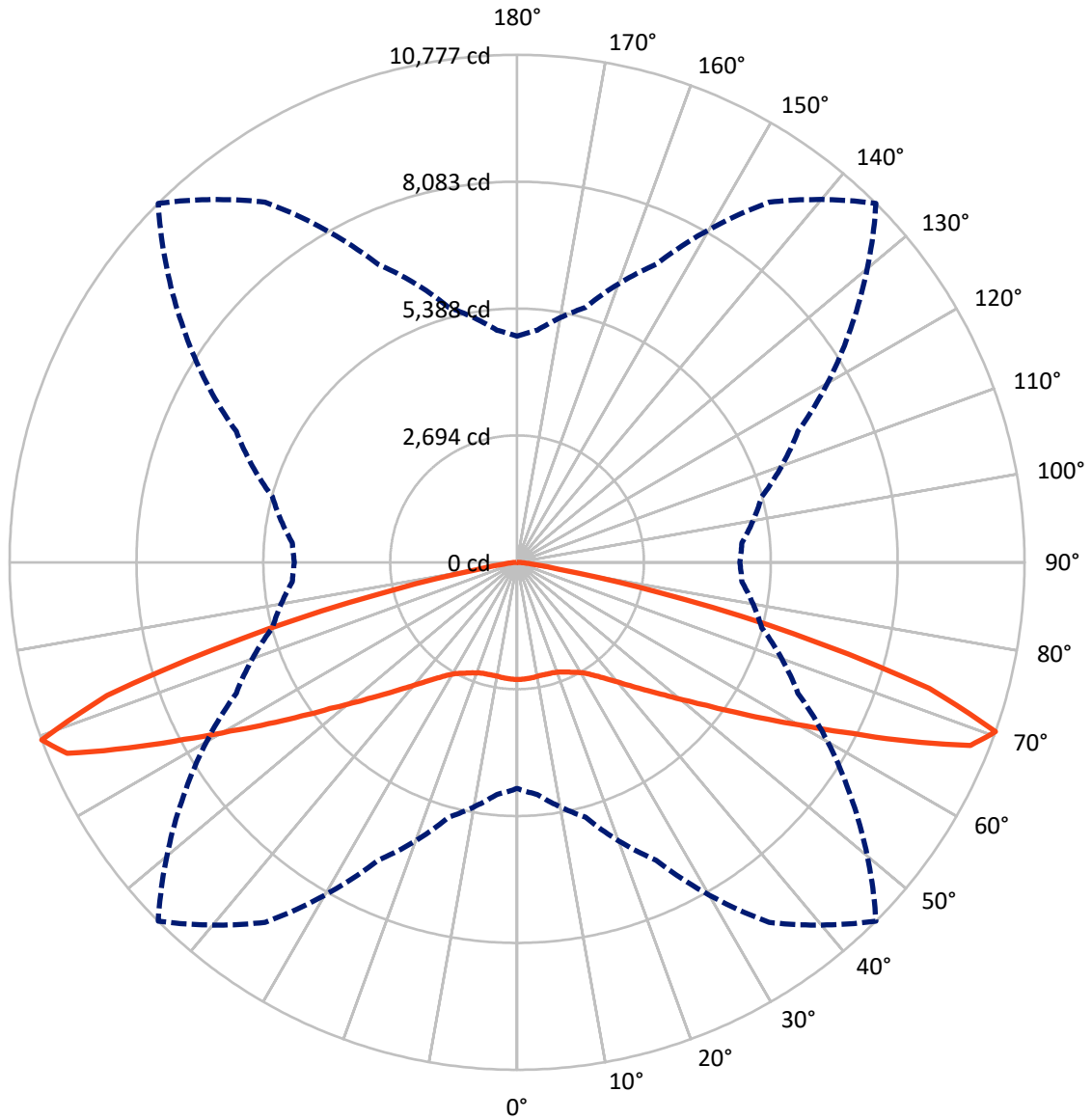
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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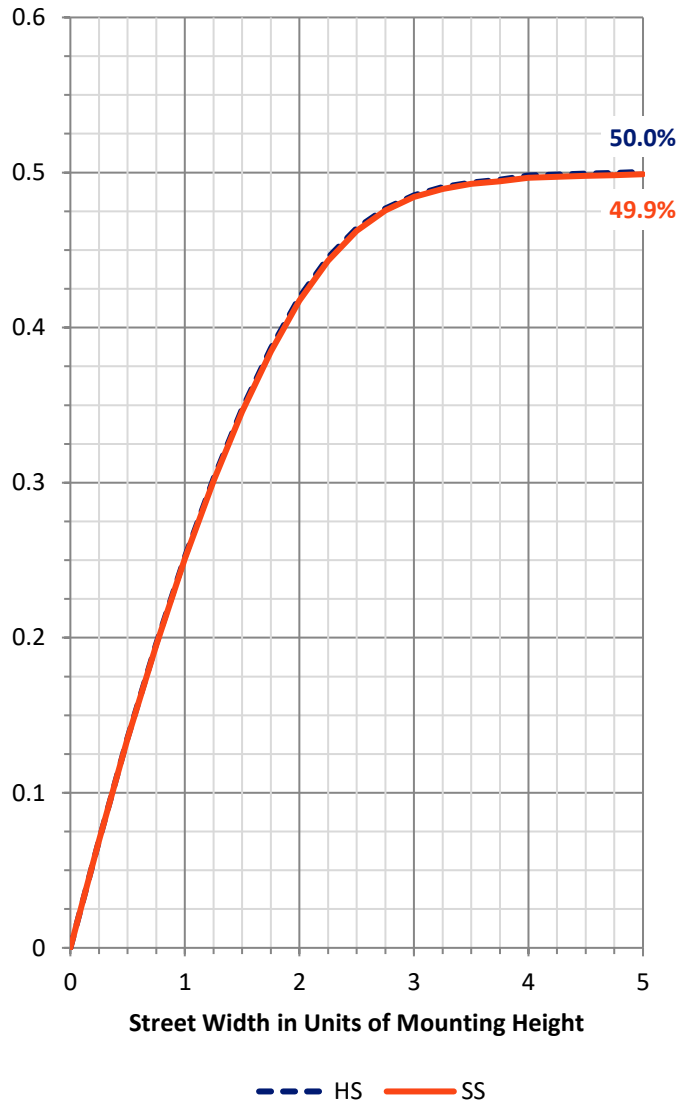
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11396.6	0.0	11396.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11396.6	0.0	11396.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	22793.1	0.0	22793.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	1.0
10°-20°	692.2	3.0
20°-30°	1178.3	5.2
30°-40°	1868.7	8.2
40°-50°	3041.0	13.3
50°-60°	5014.1	22.0
60°-70°	7360.8	32.3
70°-80°	3254.9	14.3
80°-90°	147.4	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°	22793.1	100.0
0°-180°	22793.1	100.0

Coefficient of Utilization



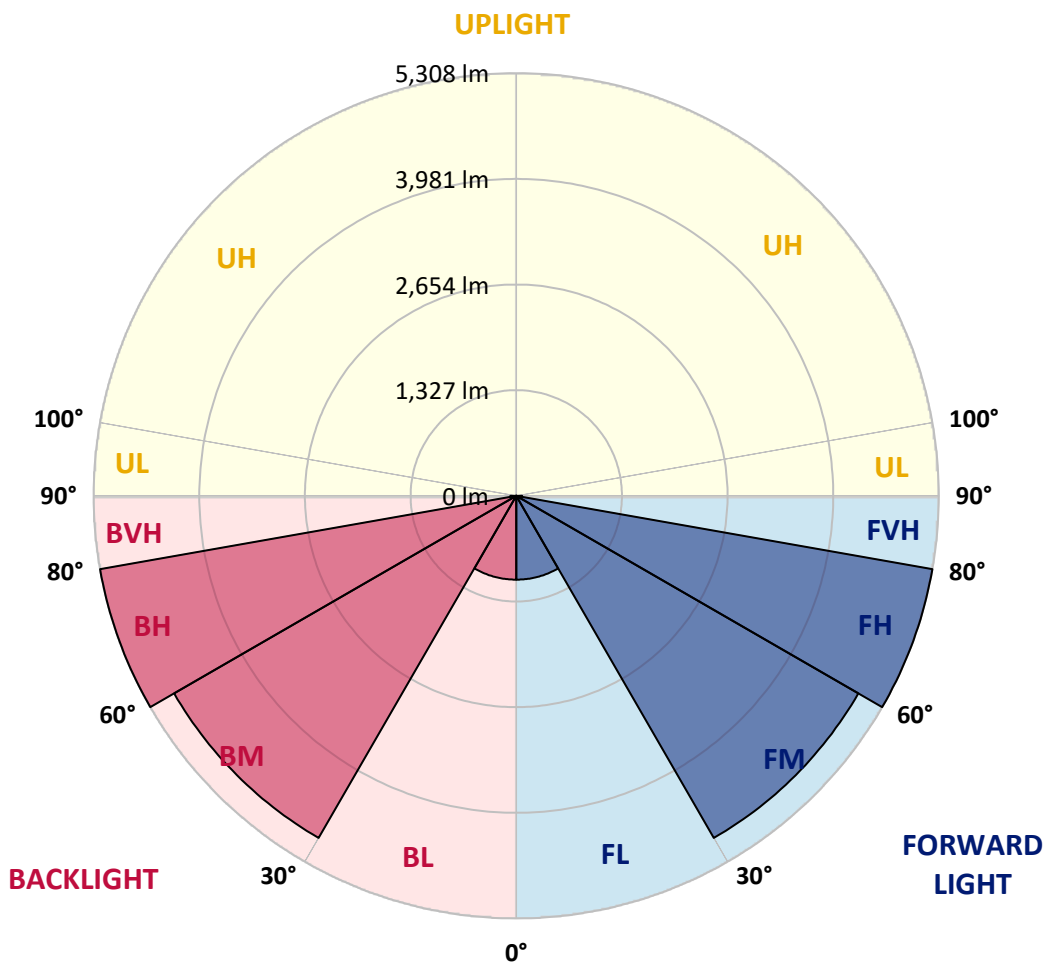
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.1	4.6			
FM (30°-60°)	4961.9	21.8			
FH (60°-80°)	5307.9	23.3			G3/7500
FVH (80°-90°)	73.7	0.3			G1/100
BL (0°-30°)	1053.1	4.6	B3/2500		
BM (30°-60°)	4961.9	21.8	B3/5000		
BH (60°-80°)	5307.9	23.3	B5		G3/7500
BVH (80°-90°)	73.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4
2.5°	2485.6	2483.3	2488.6	2487.9	2483.3	2484.1	2484.1	2486.3	2486.3	2484.8	2484.8
5°	2476.5	2475.0	2481.1	2481.1	2476.5	2478.0	2479.6	2481.8	2481.1	2479.6	2478.8
7.5°	2465.2	2464.5	2470.5	2470.5	2467.5	2469.0	2467.5	2468.2	2466.7	2465.2	2462.9
10°	2446.3	2447.8	2453.1	2454.6	2454.6	2455.4	2453.9	2450.2	2447.8	2445.6	2443.4
12.5°	2429.0	2428.3	2435.8	2439.5	2445.6	2452.4	2447.8	2437.3	2432.8	2428.3	2426.8
15°	2417.7	2418.5	2426.0	2432.8	2443.4	2457.7	2452.4	2435.8	2426.8	2421.5	2420.0
17.5°	2415.4	2416.9	2426.8	2438.8	2450.2	2466.0	2462.9	2446.3	2431.2	2421.5	2419.2
20°	2420.7	2421.5	2436.6	2453.9	2473.5	2488.6	2481.8	2463.8	2443.4	2428.3	2424.4
22.5°	2430.5	2433.6	2452.4	2479.6	2509.8	2530.1	2521.8	2490.9	2459.2	2440.4	2435.1
25°	2461.4	2462.2	2487.9	2524.8	2561.0	2584.4	2574.6	2530.8	2490.1	2469.0	2462.2
27.5°	2525.6	2527.8	2553.5	2596.5	2627.4	2642.5	2636.5	2601.0	2566.3	2543.7	2545.9
30°	2618.4	2621.4	2650.1	2697.6	2716.4	2720.2	2718.7	2702.0	2670.4	2640.2	2642.5
32.5°	2731.5	2733.0	2771.4	2814.5	2829.6	2832.6	2829.6	2814.5	2776.8	2736.0	2738.3
35°	2877.1	2881.6	2918.6	2960.1	2972.1	2978.2	2972.9	2953.3	2914.1	2874.1	2872.6
37.5°	3056.6	3057.4	3095.9	3138.8	3153.9	3155.4	3149.4	3136.6	3087.5	3051.4	3049.0
40°	3264.8	3267.9	3313.1	3359.2	3365.1	3358.4	3366.7	3359.2	3308.6	3267.1	3273.9
42.5°	3518.3	3525.1	3579.4	3624.7	3607.3	3603.5	3608.8	3611.1	3570.3	3519.9	3515.3
45°	3813.3	3819.3	3887.2	3923.4	3912.0	3887.2	3897.8	3915.9	3859.3	3796.6	3802.7
47.5°	4149.7	4164.8	4237.2	4271.1	4243.2	4209.3	4229.7	4256.8	4190.4	4112.7	4109.0
50°	4523.9	4542.7	4639.3	4686.8	4658.9	4596.3	4630.3	4648.3	4552.5	4452.1	4443.9
52.5°	4922.9	4941.8	5063.2	5161.2	5143.2	5045.8	5093.4	5074.5	4964.4	4829.3	4818.8
55°	5374.8	5382.3	5513.6	5672.0	5690.1	5618.4	5615.4	5584.4	5421.5	5265.4	5257.8
57.5°	5839.4	5844.7	6014.4	6201.5	6286.7	6286.7	6202.2	6136.7	5920.2	5739.1	5720.3
60°	6341.0	6360.0	6547.8	6802.0	7001.1	7060.0	6910.6	6731.8	6496.5	6275.5	6253.6
62.5°	6787.6	6809.5	7096.9	7475.7	7795.5	8009.7	7644.6	7353.5	6924.9	6570.4	6528.9
65°	6844.3	6903.0	7321.8	8007.5	8723.3	9151.1	8451.0	7733.6	6952.9	6460.3	6418.0
67.5°	6250.6	6350.2	6915.9	7983.3	9462.6	10380.6	8966.2	7516.4	6452.0	5907.3	5860.6
70°	4803.0	4947.8	5600.3	6983.1	9335.1	10776.7	8643.4	6580.2	5379.3	4793.2	4727.5
72.5°	2635.0	2694.5	3281.5	4781.8	7484.0	9157.9	7209.3	4865.6	3567.4	2902.7	2792.6
75°	835.8	856.9	1155.7	1956.8	4233.4	6065.8	4579.7	2388.3	1314.9	969.4	958.0
77.5°	371.1	373.4	417.9	571.0	1458.2	3073.3	1751.6	650.2	448.1	391.5	404.3
80°	234.6	234.6	258.8	282.9	396.7	892.4	473.7	309.3	264.0	245.2	250.4
82.5°	112.4	124.5	168.2	181.0	218.0	300.2	242.9	202.1	176.5	131.3	122.2
85°	74.0	61.9	106.4	120.0	126.7	144.1	141.0	133.5	115.4	65.7	73.1
87.5°	33.2	31.7	55.1	50.6	47.5	36.2	54.3	67.2	64.8	32.4	32.4
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)