

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: P383018

Luminaire Tested: **GLEON-SA3D-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383018
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-SA3D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23181.6 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

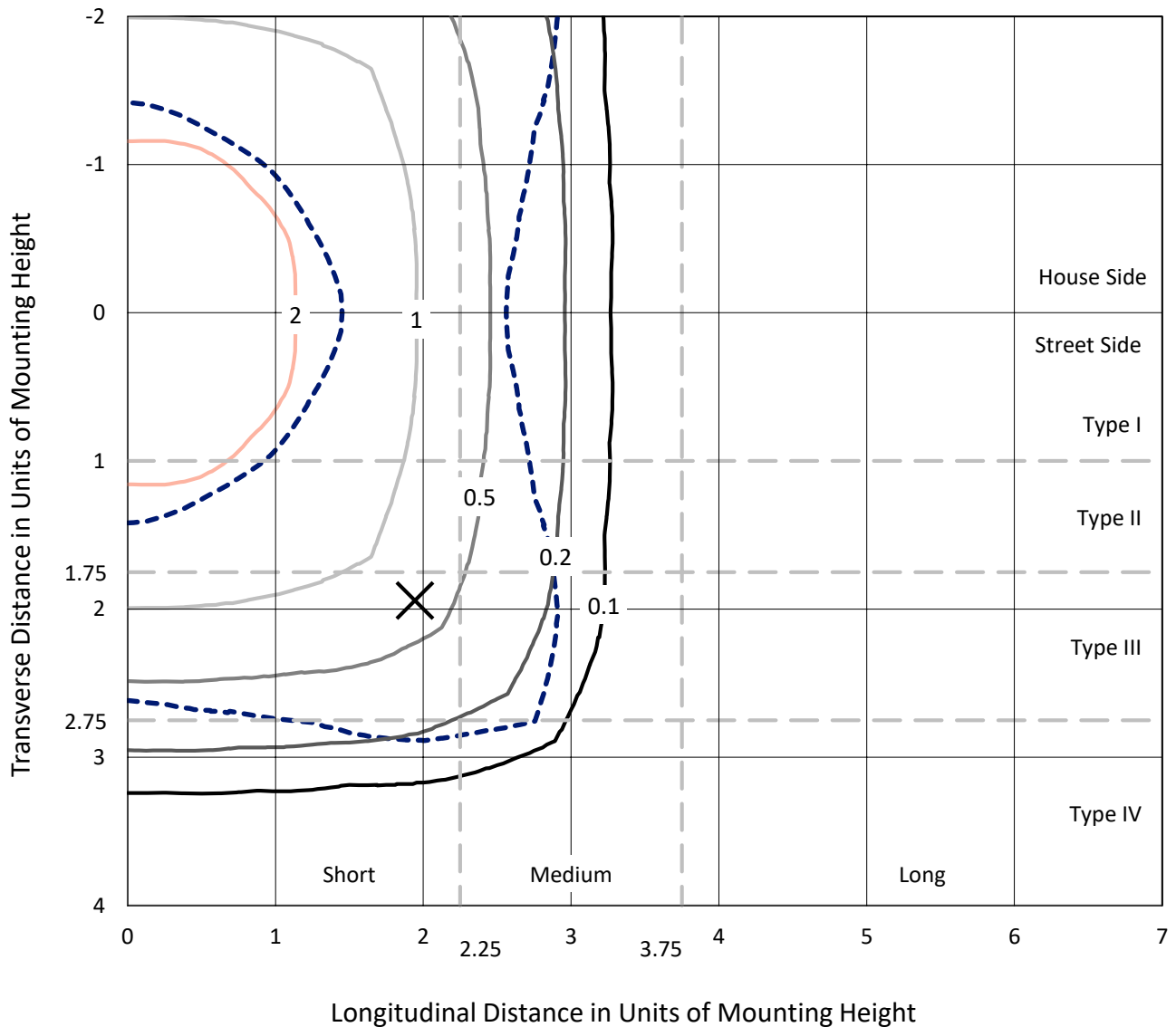
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383018
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Iso-Footcandle Lines of Horizontal Illumination

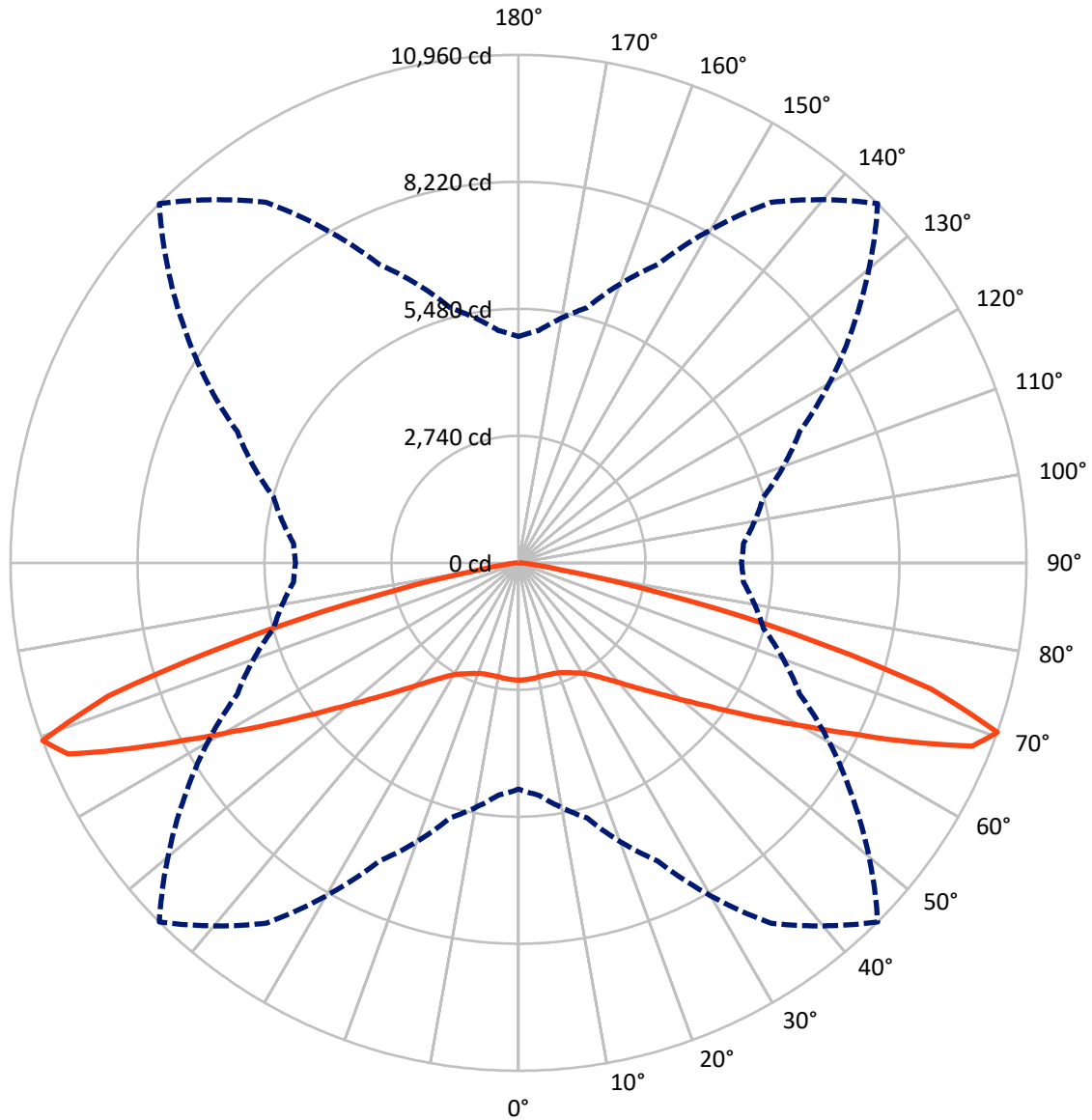
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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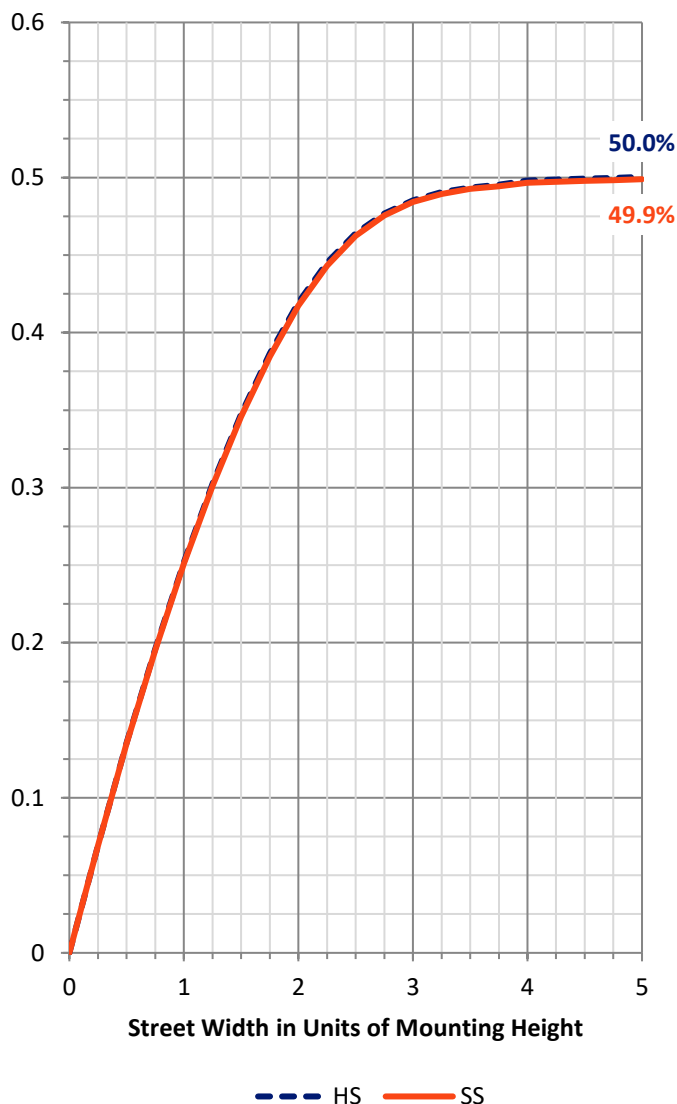
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11590.8	0.0	11590.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11590.8	0.0	11590.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23181.6	0.0	23181.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	1.0
10°-20°	704.0	3.0
20°-30°	1198.4	5.2
30°-40°	1900.6	8.2
40°-50°	3092.8	13.3
50°-60°	5099.5	22.0
60°-70°	7486.2	32.3
70°-80°	3310.4	14.3
80°-90°	149.9	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°	23181.6	100.0
0°-180°	23181.6	100.0

Coefficient of Utilization



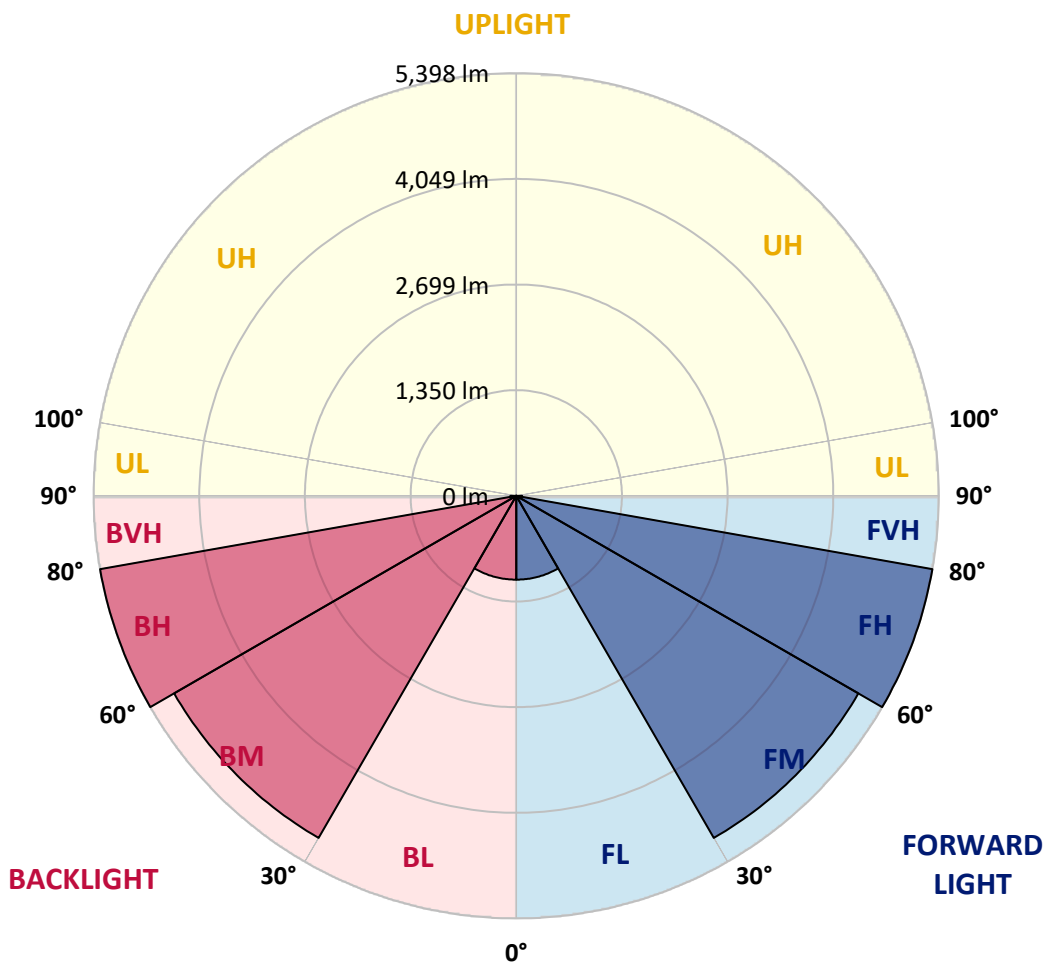
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 CATALOG NUMBER: GLEON-SA3D-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.0	4.6			
FM (30°-60°)	5046.5	21.8			
FH (60°-80°)	5398.3	23.3			G3/7500
FVH (80°-90°)	75.0	0.3			G1/100
BL (0°-30°)	1071.0	4.6	B3/2500		
BM (30°-60°)	5046.5	21.8	B4/8500		
BH (60°-80°)	5398.3	23.3	B5		G3/7500
BVH (80°-90°)	75.0	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°	2531.8	2531.8	2531.8	2531.8	2531.8	2531.8	2531.8	2531.8	2531.8	2531.8	2531.8
2.5°	2527.9	2525.6	2531.0	2530.3	2525.6	2526.5	2526.5	2528.7	2528.7	2527.2	2527.2
5°	2518.7	2517.2	2523.4	2523.4	2518.7	2520.3	2521.8	2524.1	2523.4	2521.8	2521.0
7.5°	2507.3	2506.5	2512.6	2512.6	2509.5	2511.1	2509.5	2510.3	2508.8	2507.3	2504.9
10°	2488.1	2489.6	2495.0	2496.5	2496.5	2497.3	2495.7	2491.9	2489.6	2487.3	2485.0
12.5°	2470.4	2469.6	2477.4	2481.2	2487.3	2494.2	2489.6	2478.8	2474.3	2469.6	2468.1
15°	2458.9	2459.7	2467.3	2474.3	2485.0	2499.5	2494.2	2477.4	2468.1	2462.7	2461.2
17.5°	2456.6	2458.2	2468.1	2480.3	2491.9	2508.0	2504.9	2488.1	2472.7	2462.7	2460.4
20°	2462.0	2462.7	2478.1	2495.7	2515.6	2531.0	2524.1	2505.7	2485.0	2469.6	2465.8
22.5°	2472.0	2475.0	2494.2	2521.8	2552.5	2573.2	2564.7	2533.3	2501.1	2481.9	2476.5
25°	2503.4	2504.2	2530.3	2567.8	2604.7	2628.5	2618.5	2574.0	2532.6	2511.1	2504.2
27.5°	2568.6	2570.9	2597.0	2640.8	2672.1	2687.5	2681.4	2645.3	2610.0	2587.0	2589.3
30°	2663.0	2666.1	2695.2	2743.5	2762.7	2766.5	2765.0	2748.2	2715.9	2685.2	2687.5
32.5°	2778.1	2779.6	2818.7	2862.5	2877.8	2880.9	2877.8	2862.5	2824.1	2782.6	2785.0
35°	2926.2	2930.7	2968.3	3010.5	3022.8	3028.9	3023.5	3003.6	2963.7	2923.1	2921.5
37.5°	3108.8	3109.5	3148.6	3192.3	3207.7	3209.3	3203.1	3190.1	3140.2	3103.4	3101.0
40°	3320.5	3323.6	3369.6	3416.4	3422.5	3415.6	3424.1	3416.4	3364.9	3322.7	3329.7
42.5°	3578.3	3585.2	3640.4	3686.4	3668.8	3665.0	3670.3	3672.6	3631.2	3579.8	3575.2
45°	3878.2	3884.4	3953.4	3990.3	3978.7	3953.4	3964.2	3982.6	3925.1	3861.4	3867.5
47.5°	4220.4	4235.7	4309.4	4343.9	4315.6	4281.0	4301.7	4329.4	4261.8	4182.8	4179.0
50°	4600.9	4620.1	4718.3	4766.6	4738.3	4674.6	4709.2	4727.5	4630.1	4528.1	4519.6
52.5°	5006.8	5026.0	5149.5	5249.3	5230.8	5131.9	5180.1	5161.1	5049.0	4911.7	4901.0
55°	5466.3	5474.1	5607.5	5768.6	5787.1	5714.2	5711.1	5679.6	5513.9	5355.1	5347.5
57.5°	5939.0	5944.3	6116.9	6307.2	6394.0	6394.0	6308.0	6241.3	6021.1	5836.9	5817.7
60°	6449.2	6468.3	6659.4	6918.0	7120.5	7180.3	7028.4	6846.6	6607.2	6382.4	6360.1
62.5°	6903.3	6925.6	7217.9	7603.0	7928.3	8146.2	7774.9	7478.7	7043.0	6682.4	6640.2
65°	6960.9	7020.7	7446.5	8144.0	8872.0	9307.0	8595.0	7865.4	7071.4	6570.4	6527.4
67.5°	6357.1	6458.3	7033.7	8119.4	9623.8	10557.5	9119.0	7644.5	6561.9	6008.0	5960.4
70°	4884.8	5032.1	5695.8	7102.0	9494.2	10960.3	8790.6	6692.3	5471.0	4874.9	4808.1
72.5°	2679.9	2740.4	3337.4	4863.3	7611.5	9313.9	7332.2	4948.5	3628.1	2952.3	2840.2
75°	850.0	871.6	1175.3	1990.2	4305.6	6169.1	4657.7	2429.0	1337.2	985.9	974.4
77.5°	377.5	379.8	425.1	580.8	1483.0	3125.6	1781.5	661.3	455.7	398.1	411.2
80°	238.6	238.6	263.2	287.7	403.5	907.6	481.8	314.6	268.6	249.4	254.7
82.5°	114.3	126.6	171.1	184.2	221.7	305.4	247.0	205.6	179.5	133.5	124.3
85°	75.2	62.9	108.2	121.9	128.9	146.5	143.5	135.8	117.4	66.8	74.4
87.5°	33.7	32.2	56.0	51.4	48.3	36.8	55.2	68.3	66.0	33.0	33.0
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)