

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: P316299

Luminaire Tested: **GLEON-SA5D-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30027 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

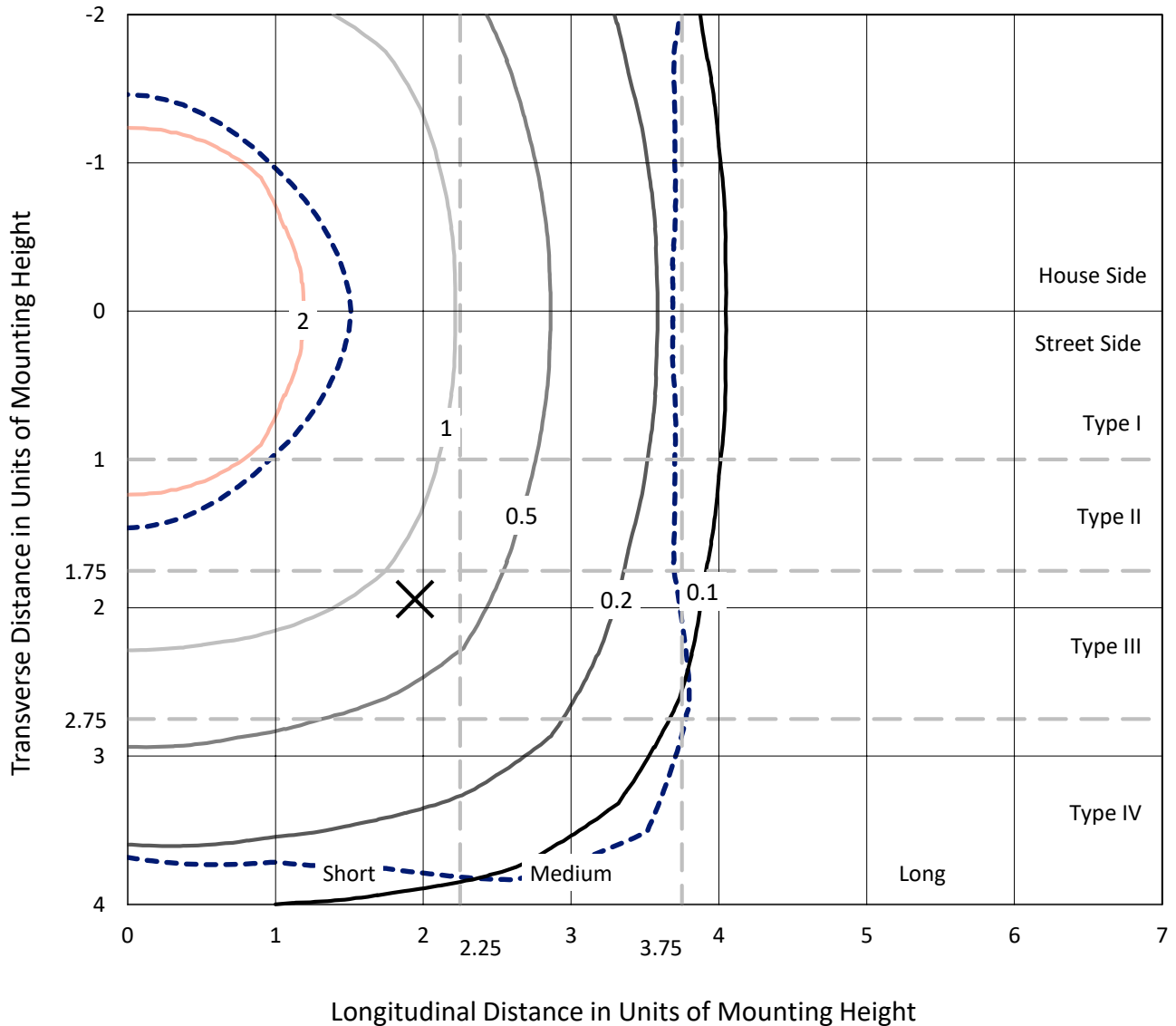
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

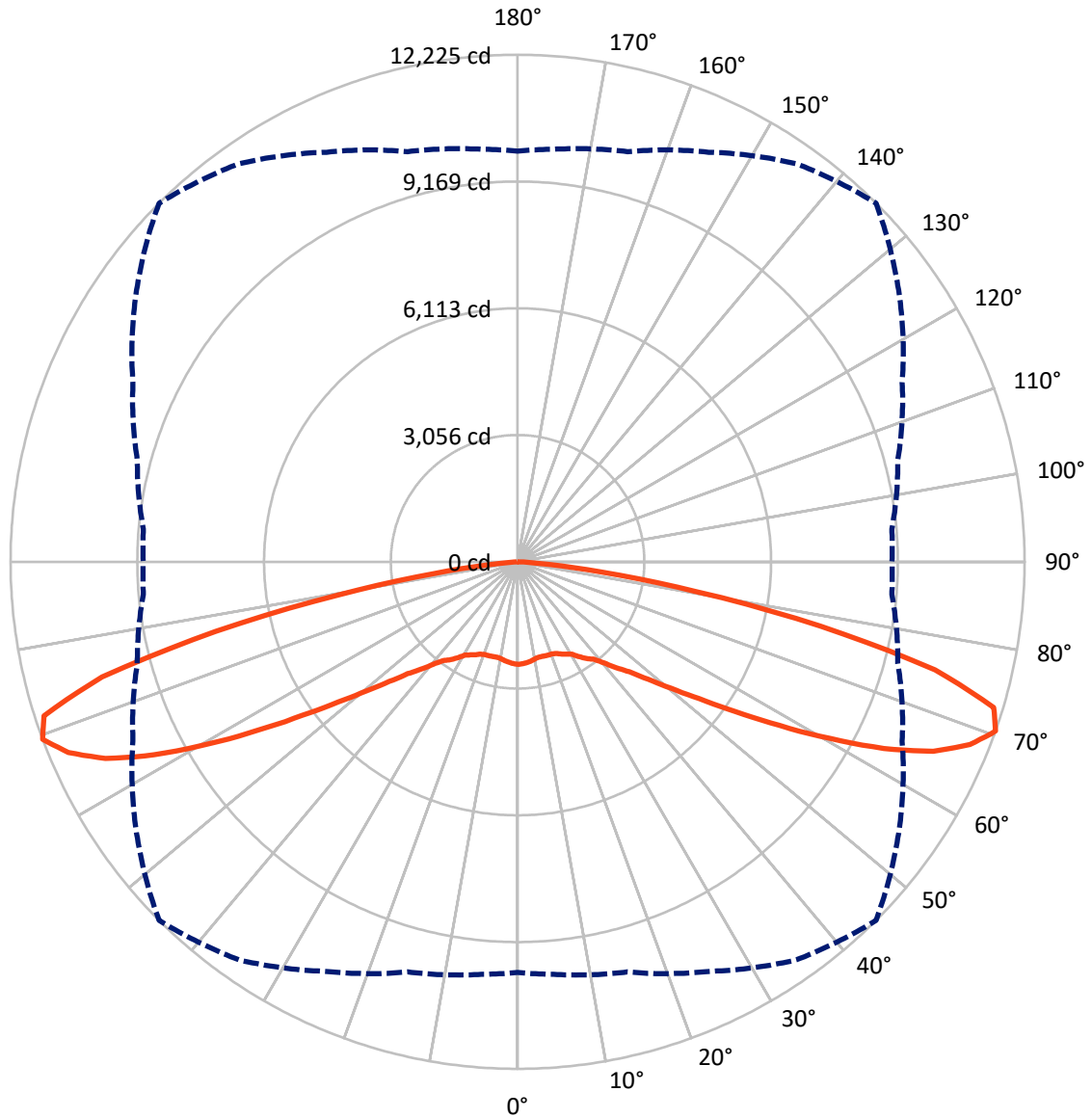
✕ Max cd
 - - - 1/2 Max cd



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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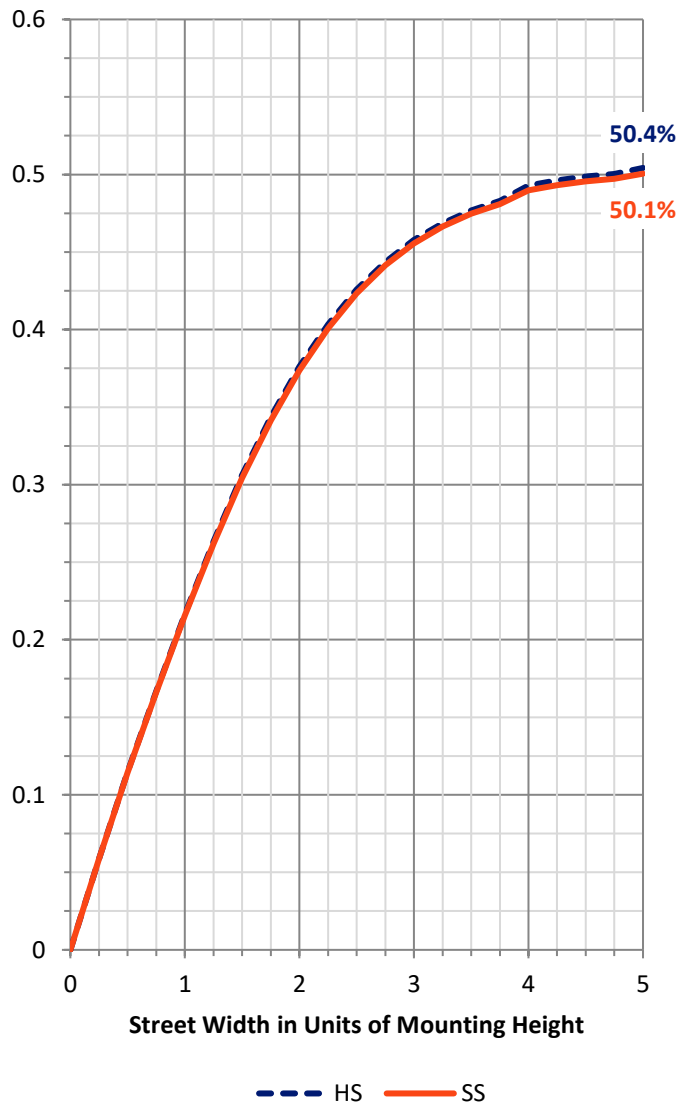
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15013.5	0.0	15013.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15013.5	0.0	15013.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30027.0	0.0	30027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	0.8
10°-20°	673.7	2.2
20°-30°	1148.7	3.8
30°-40°	1794.9	6.0
40°-50°	3041.9	10.1
50°-60°	5547.1	18.5
60°-70°	9549.7	31.8
70°-80°	7485.4	24.9
80°-90°	555.0	1.8
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°	30027.0	100.0
0°-180°	30027.0	100.0

Coefficient of Utilization

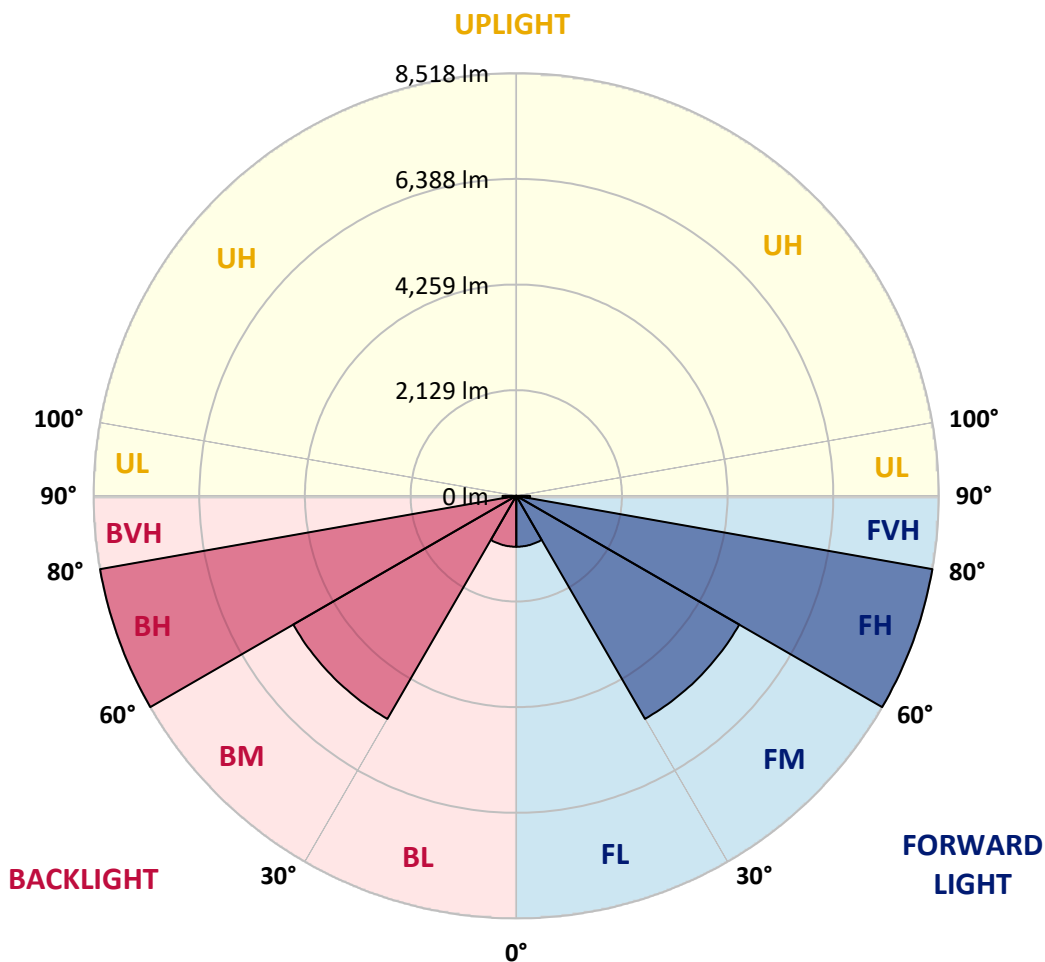


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.5	3.4			
FM (30°-60°)	5191.9	17.3			
FH (60°-80°)	8517.5	28.4			G4/12000
FVH (80°-90°)	277.5	0.9			G3/500
BL (0°-30°)	1026.5	3.4	B3/2500		
BM (30°-60°)	5191.9	17.3	B4/8500		
BH (60°-80°)	8517.5	28.4	B5		G4/12000
BVH (80°-90°)	277.5	0.9			G3/500
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°	2471.2	2471.2	2471.2	2471.2	2471.2	2471.2	2471.2	2471.2	2471.2	2471.2	2471.2
2.5°	2460.3	2463.3	2460.3	2462.3	2457.3	2459.3	2459.3	2459.3	2458.3	2459.3	2457.3
5°	2438.4	2440.4	2436.5	2438.4	2435.5	2438.4	2439.4	2438.4	2436.5	2437.5	2433.5
7.5°	2405.7	2407.7	2404.7	2407.7	2403.7	2408.7	2407.7	2404.7	2401.7	2401.7	2397.7
10°	2387.8	2388.8	2380.8	2377.9	2368.9	2370.9	2373.9	2376.9	2379.8	2385.8	2384.8
12.5°	2388.8	2388.8	2376.9	2364.0	2351.0	2354.0	2359.0	2369.9	2381.8	2392.8	2393.8
15°	2398.7	2397.7	2379.8	2359.0	2350.0	2359.0	2362.0	2368.9	2387.8	2406.7	2407.7
17.5°	2405.7	2405.7	2377.9	2354.0	2353.0	2366.9	2365.9	2368.9	2389.8	2417.6	2418.6
20°	2418.6	2418.6	2382.8	2357.0	2357.0	2371.9	2372.9	2377.9	2398.7	2429.5	2434.5
22.5°	2447.4	2448.4	2410.6	2389.8	2391.8	2400.7	2403.7	2411.6	2430.5	2464.3	2470.2
25°	2488.1	2490.1	2451.4	2439.4	2446.4	2463.3	2461.3	2467.3	2488.1	2520.9	2526.8
27.5°	2544.7	2539.8	2504.0	2499.0	2506.0	2517.9	2516.9	2517.9	2534.8	2564.6	2571.5
30°	2618.2	2616.2	2590.4	2593.4	2590.4	2586.4	2587.4	2595.4	2604.3	2628.2	2635.1
32.5°	2689.7	2691.7	2675.8	2690.7	2712.6	2727.5	2704.6	2682.8	2672.9	2685.8	2691.7
35°	2818.9	2823.8	2799.0	2789.1	2818.9	2862.6	2798.0	2762.3	2782.1	2799.0	2804.0
37.5°	3038.4	3041.4	2999.6	2959.9	2938.1	2979.8	2915.2	2918.2	2987.7	3019.5	3018.5
40°	3288.7	3289.7	3261.9	3227.1	3189.4	3199.3	3173.5	3181.4	3227.1	3255.9	3263.8
42.5°	3586.7	3583.7	3540.0	3490.3	3479.4	3489.3	3445.6	3439.7	3492.3	3543.9	3544.9
45°	3973.0	3966.1	3909.5	3854.8	3802.2	3780.3	3769.4	3798.2	3870.7	3918.4	3919.4
47.5°	4389.2	4370.3	4340.5	4296.8	4251.1	4229.3	4211.4	4225.3	4278.0	4296.8	4298.8
50°	4817.3	4821.3	4827.2	4810.3	4793.5	4786.5	4739.8	4713.0	4728.9	4694.1	4689.2
52.5°	5324.9	5332.8	5390.4	5439.1	5467.9	5482.8	5394.4	5302.0	5250.4	5182.8	5163.0
55°	5923.8	5936.7	6021.1	6156.2	6295.3	6368.8	6208.9	6036.0	5876.1	5750.0	5709.2
57.5°	6591.3	6614.1	6730.3	6989.6	7274.6	7448.4	7178.3	6864.4	6555.5	6373.7	6342.0
60°	7373.9	7395.8	7556.7	7928.2	8390.1	8651.3	8242.1	7728.5	7344.2	7170.3	7111.7
62.5°	8305.6	8307.6	8505.3	8939.3	9549.2	9912.7	9358.5	8672.1	8275.8	8066.2	8009.6
65°	9307.8	9312.8	9517.4	9986.2	10616.9	11012.3	10386.5	9671.4	9186.6	8877.7	8834.0
67.5°	10016.0	10036.9	10252.4	10816.6	11406.6	11763.2	11115.6	10307.0	9746.8	9378.3	9341.6
70°	9902.8	9984.2	10237.5	10896.0	11716.5	12225.0	11233.7	10231.6	9492.6	9057.5	9026.7
72.5°	8636.4	8792.3	9130.0	9994.2	11306.3	12006.5	10589.1	9163.8	8327.5	7957.0	7901.4
75°	5881.1	6134.4	6643.9	7890.4	9659.4	10395.4	8914.5	7306.4	6519.7	6007.2	5969.5
77.5°	2622.2	2679.8	3325.4	4760.7	6665.8	7465.3	6477.0	4779.6	3587.6	2861.6	2708.6
80°	731.0	740.0	987.3	1773.0	3336.4	4386.2	3581.7	1862.4	1046.9	738.0	695.3
82.5°	232.4	252.3	307.9	459.9	1121.4	2001.4	1151.2	496.6	353.6	282.1	254.3
85°	113.2	112.2	155.9	186.7	286.1	443.0	304.9	230.4	201.6	134.1	121.2
87.5°	47.7	48.7	72.5	65.6	83.4	71.5	98.3	103.3	108.3	59.6	51.6
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)