

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: P316937

Luminaire Tested: **GLEON-SA3D-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316937
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-SA3D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 17963 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

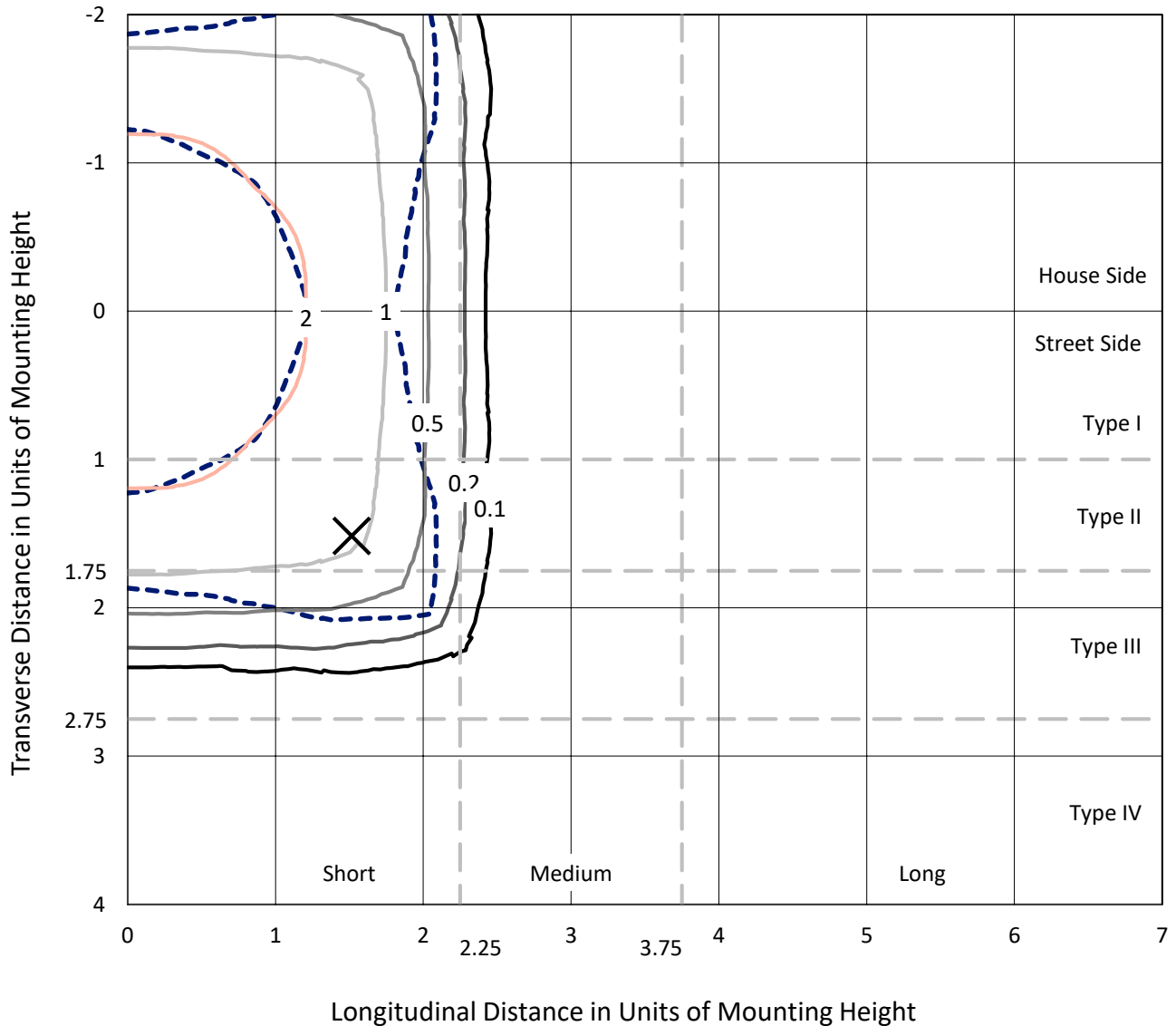
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

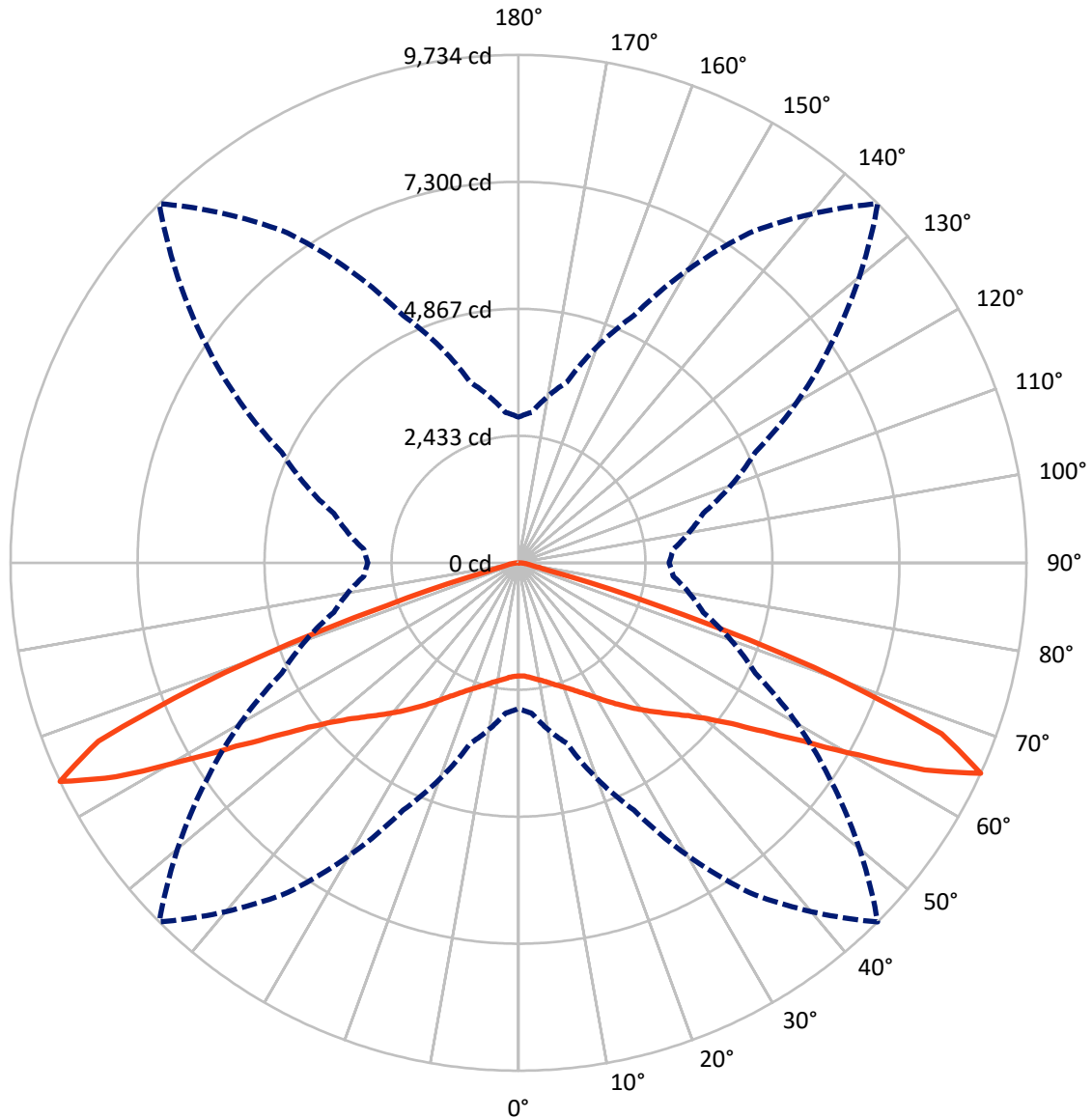
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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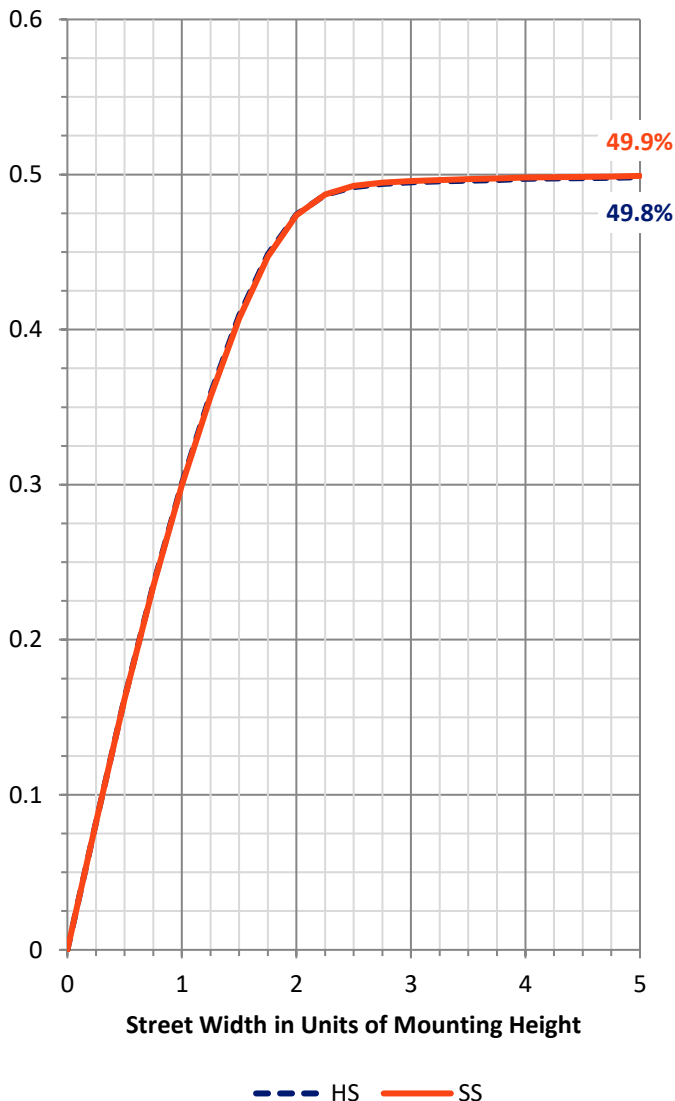
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8981.5	0.0	8981.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8981.5	0.0	8981.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17963.0	0.0	17963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.2
10°-20°	684.1	3.8
20°-30°	1283.5	7.1
30°-40°	2122.7	11.8
40°-50°	3287.7	18.3
50°-60°	5042.4	28.1
60°-70°	4705.2	26.2
70°-80°	547.6	3.0
80°-90°	76.9	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°	17963.0	100.0
0°-180°	17963.0	100.0

Coefficient of Utilization

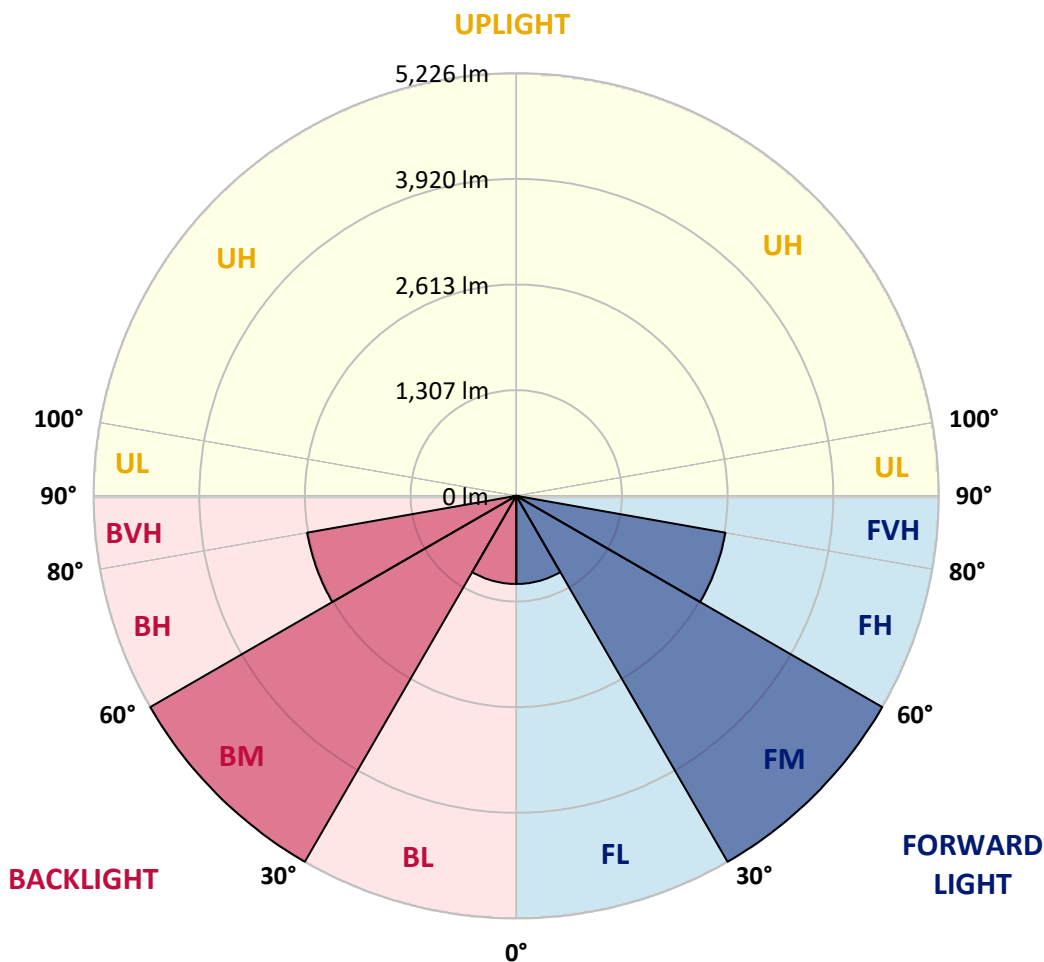


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.2	6.1			
FM (30°-60°)	5226.4	29.1			
FH (60°-80°)	2626.4	14.6			G2/5000
FVH (80°-90°)	38.5	0.2			G1/100
BL (0°-30°)	1090.2	6.1	B3/2500		
BM (30°-60°)	5226.4	29.1	B4/8500		
BH (60°-80°)	2626.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	38.5	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°	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2176.4	2175.2	2176.4	2177.0	2173.4	2175.2	2174.6	2177.6	2178.8	2177.6	2177.6
5°	2201.5	2199.7	2202.1	2205.0	2200.3	2201.5	2199.7	2203.2	2204.4	2202.1	2203.8
7.5°	2236.0	2236.6	2239.0	2244.4	2241.4	2243.8	2240.2	2240.8	2240.2	2236.6	2237.2
10°	2273.6	2274.2	2278.4	2285.5	2286.7	2286.7	2284.3	2282.6	2280.2	2277.8	2278.4
12.5°	2318.9	2321.9	2324.9	2333.8	2333.8	2338.6	2337.4	2332.6	2328.5	2324.9	2324.9
15°	2380.3	2379.7	2383.3	2392.3	2396.4	2404.2	2404.2	2397.6	2392.3	2388.7	2387.5
17.5°	2444.7	2446.5	2448.9	2459.6	2466.2	2475.2	2476.3	2471.0	2467.4	2462.6	2459.6
20°	2519.9	2522.9	2532.4	2536.6	2542.5	2550.9	2553.9	2552.7	2549.1	2546.7	2547.3
22.5°	2607.5	2615.3	2621.2	2627.2	2634.4	2640.3	2643.3	2647.5	2643.9	2642.1	2640.9
25°	2713.7	2719.0	2731.0	2741.7	2746.5	2748.2	2751.8	2757.8	2757.2	2753.0	2753.0
27.5°	2834.1	2844.2	2859.2	2874.7	2874.7	2868.7	2880.6	2890.8	2887.2	2881.8	2874.7
30°	2980.2	2989.7	3007.0	3028.5	3017.8	3013.6	3029.7	3048.2	3042.8	3033.9	3032.7
32.5°	3137.6	3146.6	3169.2	3192.5	3178.8	3172.8	3190.1	3216.9	3207.4	3189.5	3178.8
35°	3308.2	3317.1	3349.3	3377.3	3354.1	3343.9	3358.2	3387.5	3370.8	3337.4	3329.0
37.5°	3493.6	3498.4	3540.1	3568.7	3552.6	3525.8	3543.7	3565.1	3550.8	3510.3	3494.2
40°	3686.2	3703.5	3751.8	3785.2	3757.1	3714.8	3744.6	3774.4	3753.0	3701.1	3673.7
42.5°	3911.0	3924.1	3988.5	4018.3	3973.0	3913.4	3953.9	3994.5	3973.0	3922.9	3899.1
45°	4144.7	4165.0	4241.9	4271.7	4206.1	4130.4	4179.9	4250.9	4249.1	4176.9	4151.9
47.5°	4399.3	4419.6	4511.4	4550.8	4479.8	4378.5	4448.2	4548.4	4541.3	4461.9	4441.7
50°	4693.3	4714.8	4829.3	4878.7	4812.6	4694.5	4799.4	4887.7	4874.6	4776.8	4778.6
52.5°	5062.4	5061.2	5203.7	5289.6	5221.6	5117.3	5213.9	5299.7	5245.5	5110.1	5105.9
55°	5385.6	5405.3	5581.8	5744.5	5740.4	5700.4	5739.2	5742.8	5587.7	5407.6	5385.6
57.5°	5597.9	5635.4	5884.1	6178.6	6399.3	6452.3	6377.2	6149.4	5786.3	5498.3	5463.1
60°	5467.3	5524.5	5915.1	6515.5	7165.5	7477.3	7053.4	6346.8	5631.8	5230.6	5182.8
62.5°	4586.0	4682.6	5254.4	6352.7	7825.0	8736.7	7543.5	6030.2	5017.7	4464.9	4383.2
65°	2793.0	2894.9	3584.2	5228.8	7718.2	9733.6	7319.9	5005.2	3662.3	2974.8	2886.6
67.5°	930.8	960.6	1366.7	2890.2	6065.9	8745.6	6076.1	2996.3	1593.9	1056.6	1025.6
70°	364.3	367.3	433.5	837.8	2864.5	6006.9	3160.9	852.7	453.2	358.4	366.1
72.5°	267.7	268.9	287.4	350.0	746.5	2646.3	773.4	351.8	279.7	251.0	251.0
75°	215.3	215.3	228.4	255.2	334.5	607.0	339.3	252.2	218.8	200.3	198.0
77.5°	169.9	173.5	183.7	200.9	226.6	292.2	234.9	199.8	176.5	159.2	155.6
80°	126.4	130.0	146.7	155.0	162.8	202.7	173.5	156.2	139.5	119.3	115.7
82.5°	82.9	86.5	107.3	112.1	110.3	132.4	116.9	115.1	102.6	76.9	73.3
85°	54.3	55.5	71.6	74.5	68.6	60.2	74.5	78.7	71.6	50.1	48.3
87.5°	25.6	25.6	36.4	34.0	31.0	25.0	34.0	40.0	40.5	24.4	23.9
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)