

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: P383023

Luminaire Tested: **GLEON-SA3D-735-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22557.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

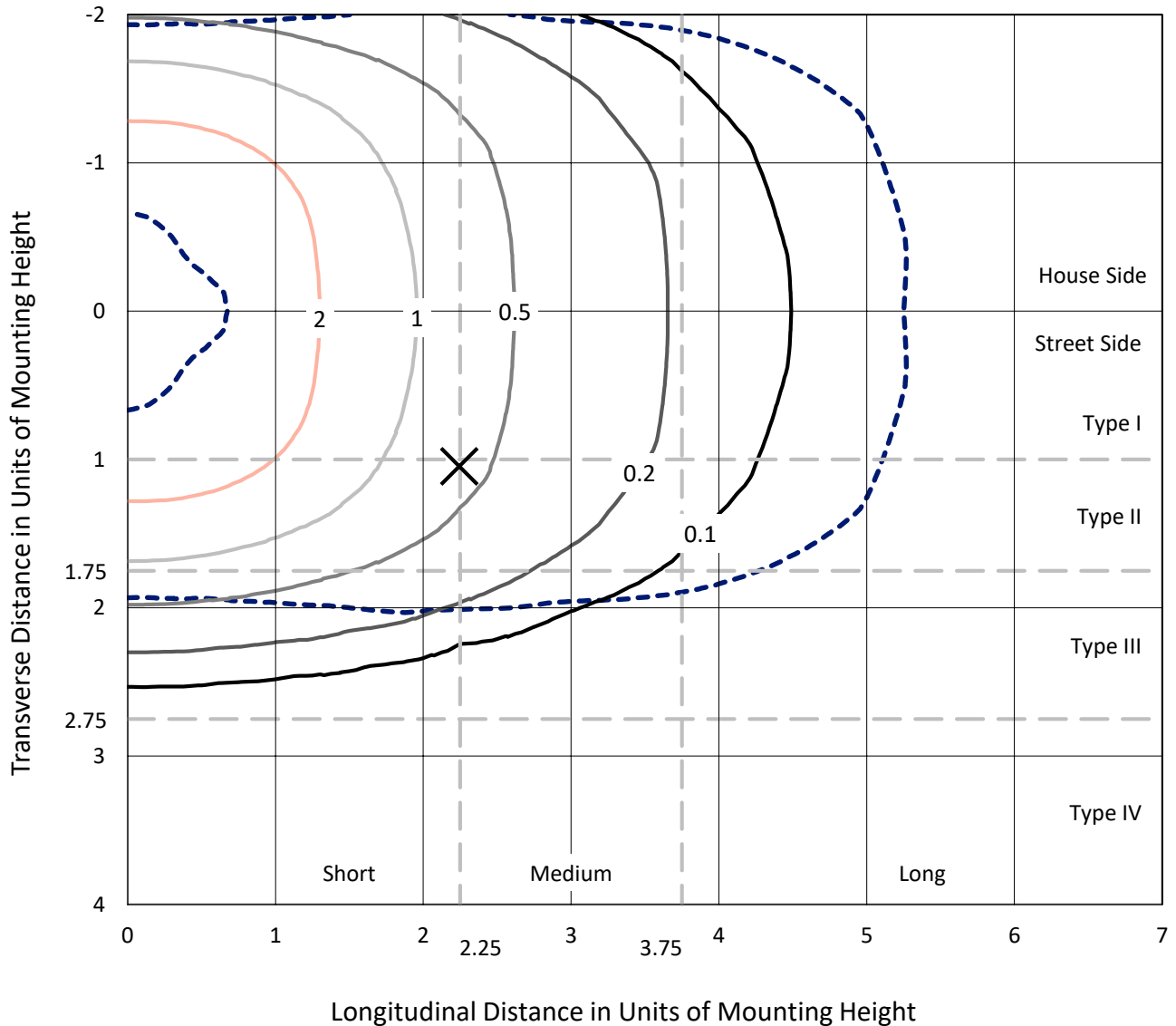
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

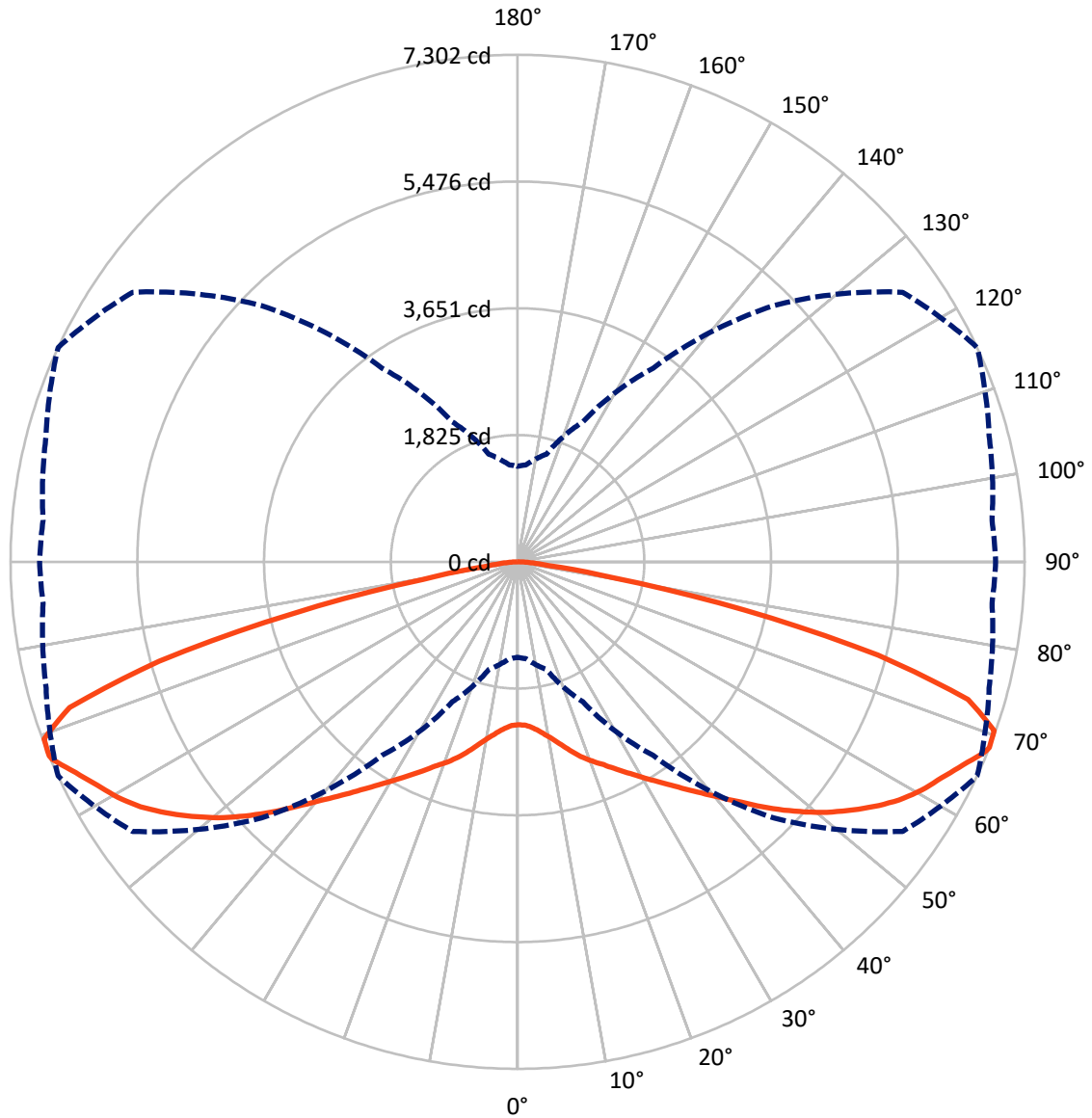
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11278.7	0.0	11278.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11278.7	0.0	11278.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	22557.4	0.0	22557.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	1.0
10°-20°	768.9	3.4
20°-30°	1499.2	6.6
30°-40°	2518.5	11.2
40°-50°	3968.3	17.6
50°-60°	5306.9	23.5
60°-70°	5159.0	22.9
70°-80°	2820.2	12.5
80°-90°	286.8	1.3
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°	22557.4	100.0
0°-180°	22557.4	100.0

Coefficient of Utilization



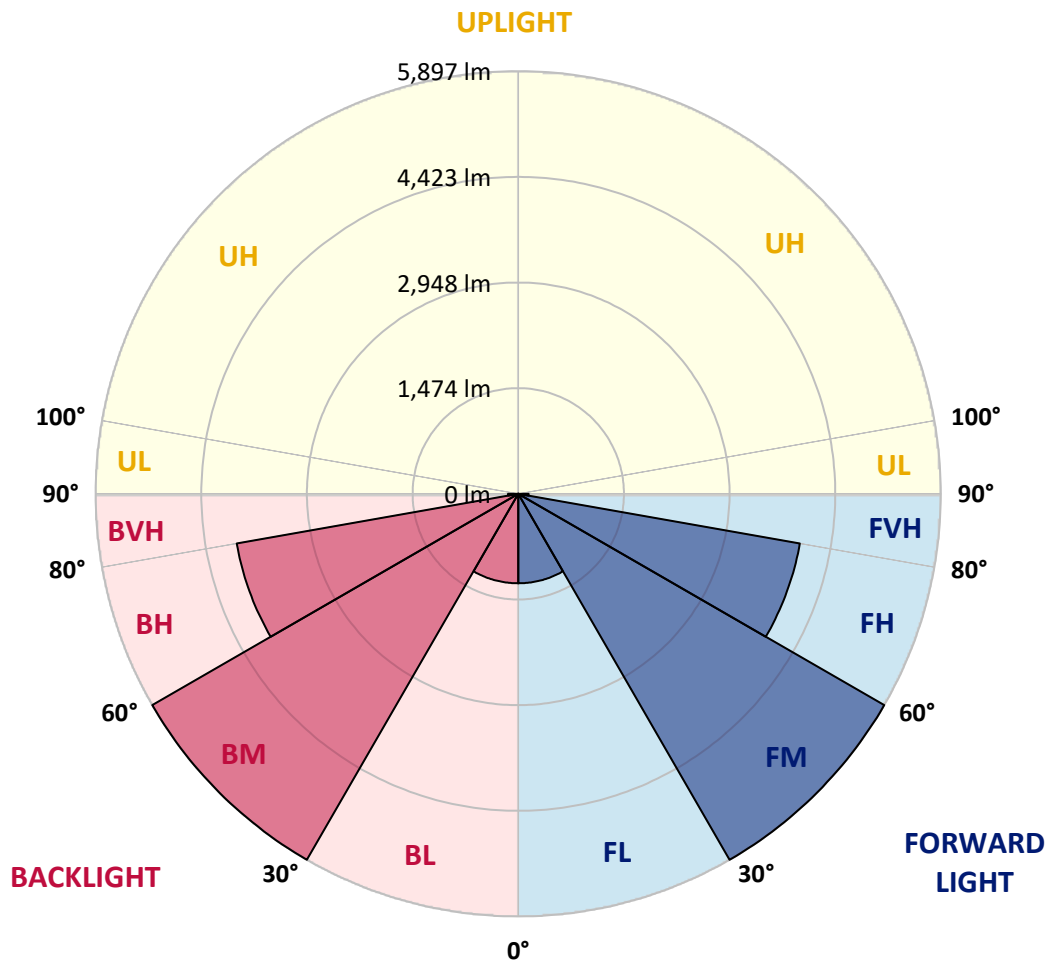
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.9	5.5			
FM (30°-60°)	5896.9	26.1			
FH (60°-80°)	3989.6	17.7			G2/5000
FVH (80°-90°)	143.4	0.6			G2/225
BL (0°-30°)	1248.9	5.5	B3/2500		
BM (30°-60°)	5896.9	26.1	B4/8500		
BH (60°-80°)	3989.6	17.7	B4/5000		G4/5000
BVH (80°-90°)	143.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2345.5	2345.5	2345.5	2345.5	2345.5	2345.5	2345.5	2345.5	2345.5	2345.5	2345.5
2.5°	2328.8	2329.5	2333.3	2337.9	2341.6	2351.5	2353.7	2357.6	2359.1	2362.9	2362.9
5°	2308.4	2309.9	2319.0	2331.1	2344.7	2368.9	2386.3	2405.9	2415.8	2426.4	2425.7
7.5°	2306.1	2309.9	2322.7	2342.4	2365.1	2405.2	2441.5	2480.8	2507.3	2531.5	2530.0
10°	2329.5	2335.6	2353.7	2383.3	2417.3	2467.2	2521.0	2573.9	2620.0	2657.1	2658.5
12.5°	2365.1	2372.7	2401.4	2446.1	2497.5	2561.8	2625.3	2685.0	2748.5	2803.8	2808.3
15°	2412.0	2421.8	2465.0	2531.5	2610.2	2686.6	2754.6	2815.9	2889.3	2965.7	2973.2
17.5°	2481.5	2495.2	2551.9	2642.0	2745.6	2829.5	2900.6	2946.8	3008.0	3086.7	3101.0
20°	2587.5	2604.9	2676.7	2784.1	2910.4	2998.2	3052.6	3062.5	3092.7	3163.1	3179.7
22.5°	2725.1	2740.2	2820.4	2948.3	3089.7	3185.0	3213.7	3174.4	3171.4	3228.1	3244.0
25°	2878.7	2892.3	2985.3	3129.0	3281.0	3386.2	3385.4	3309.0	3256.1	3299.9	3316.6
27.5°	3051.1	3072.3	3161.6	3312.8	3475.4	3579.0	3573.0	3455.0	3354.4	3365.8	3380.1
30°	3249.2	3272.7	3359.7	3513.2	3675.9	3777.2	3769.7	3613.8	3462.6	3432.3	3442.9
32.5°	3495.1	3523.1	3605.6	3756.7	3900.5	3992.1	3970.1	3786.3	3592.7	3526.8	3536.7
35°	3790.8	3807.4	3894.4	4043.5	4159.9	4222.7	4176.6	3986.0	3757.6	3678.1	3678.1
37.5°	4090.3	4103.2	4200.8	4345.2	4457.9	4491.2	4401.2	4204.5	3973.1	3860.4	3862.7
40°	4377.7	4412.6	4522.2	4670.5	4781.6	4790.8	4671.2	4454.1	4212.8	4096.4	4110.0
42.5°	4678.0	4712.0	4842.9	5010.8	5109.2	5124.3	4984.3	4734.0	4483.6	4389.1	4404.3
45°	4945.8	4973.0	5124.3	5319.4	5441.9	5481.2	5315.6	5054.7	4776.3	4684.1	4687.8
47.5°	5132.5	5168.1	5334.5	5564.5	5743.0	5803.4	5640.9	5367.0	5064.5	4952.6	4962.4
50°	5302.0	5320.9	5489.6	5740.7	5967.6	6092.4	5953.2	5675.6	5355.7	5237.0	5247.6
52.5°	5396.5	5420.8	5584.2	5845.8	6114.3	6315.5	6230.8	5953.2	5637.1	5521.4	5534.2
55°	5330.8	5348.9	5544.8	5869.3	6205.1	6453.2	6466.1	6224.8	5913.2	5811.8	5848.1
57.5°	5031.2	5053.9	5293.0	5718.0	6216.4	6546.2	6643.1	6476.6	6171.0	6088.6	6109.8
60°	4563.1	4577.4	4832.3	5310.3	5995.6	6584.7	6755.7	6682.4	6423.7	6341.2	6370.0
62.5°	3728.8	3749.9	4054.7	4695.5	5528.9	6470.5	6864.7	6852.6	6658.9	6583.2	6609.0
65°	2548.9	2586.0	2923.3	3733.4	4809.7	6121.1	6963.7	7050.7	6866.9	6771.6	6805.6
67.5°	1539.2	1566.4	1810.7	2465.0	3680.4	5416.2	6861.6	7276.1	7013.6	6860.1	6888.0
68°	1375.8	1400.8	1605.0	2224.4	3404.3	5217.3	6768.5	7301.8	7029.6	6858.6	6883.6
70°	831.2	847.9	984.7	1375.1	2269.8	4138.8	6134.0	7280.6	7130.9	6879.8	6894.1
72.5°	541.5	546.8	569.5	705.6	1159.5	2314.4	4603.9	6784.5	7282.9	7003.0	7000.8
75°	450.0	447.0	449.3	465.1	571.8	1015.0	2690.3	5359.5	6942.5	6808.7	6761.0
77.5°	380.4	378.2	377.5	378.2	382.7	490.1	1167.8	3338.6	5312.6	6022.8	6065.2
80°	307.9	304.8	314.7	310.1	296.5	304.8	489.3	1388.7	2504.3	2694.1	2524.7
82.5°	223.9	212.6	254.9	242.8	231.5	214.8	270.1	448.5	597.5	410.0	288.1
85°	172.4	160.3	193.7	186.0	158.8	109.6	160.3	219.4	242.0	138.4	108.9
87.5°	70.3	74.2	139.9	110.4	93.1	52.9	65.8	87.8	118.0	59.0	45.4
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)