

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: P383019

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383019
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-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 22763.3 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

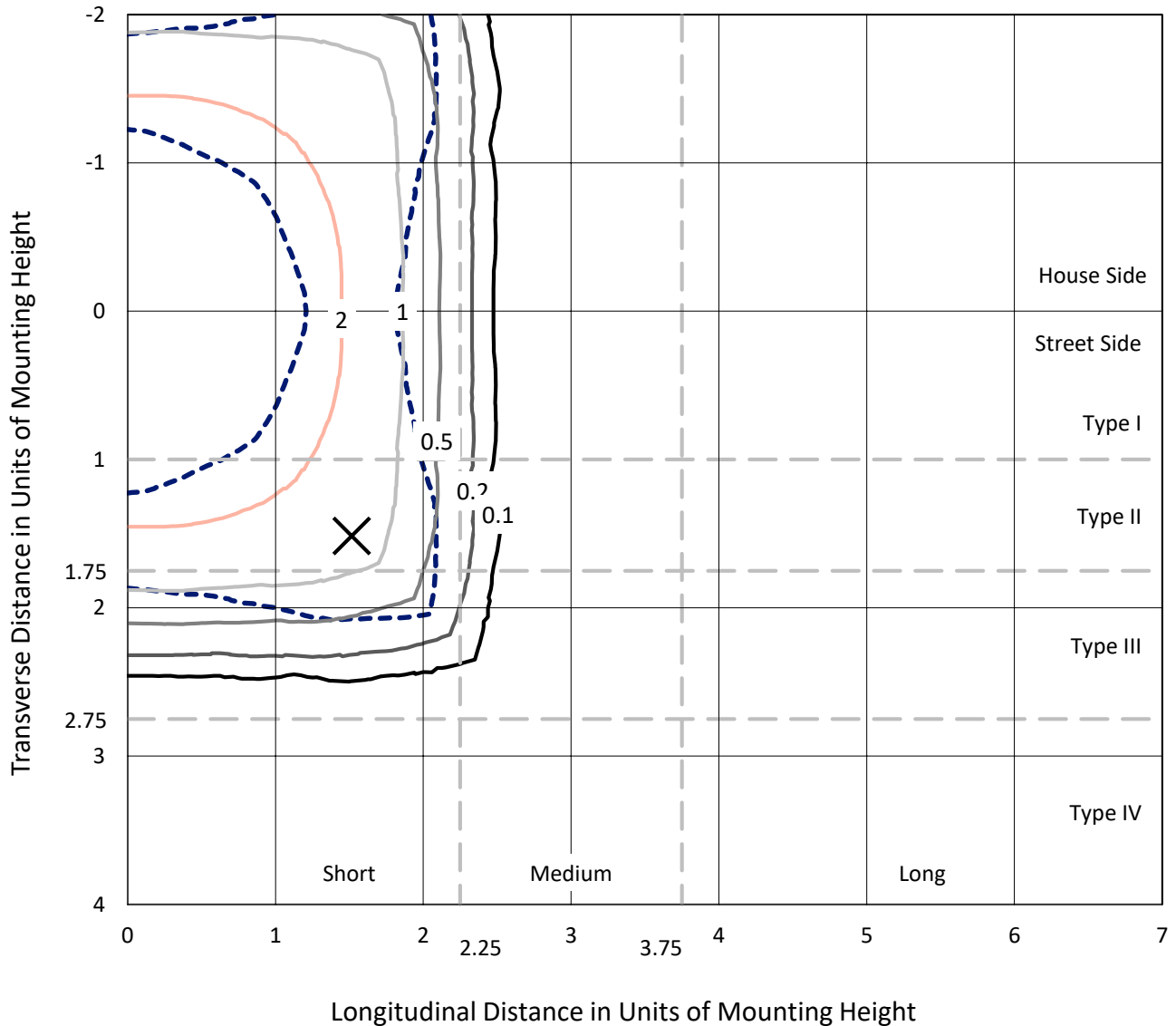
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

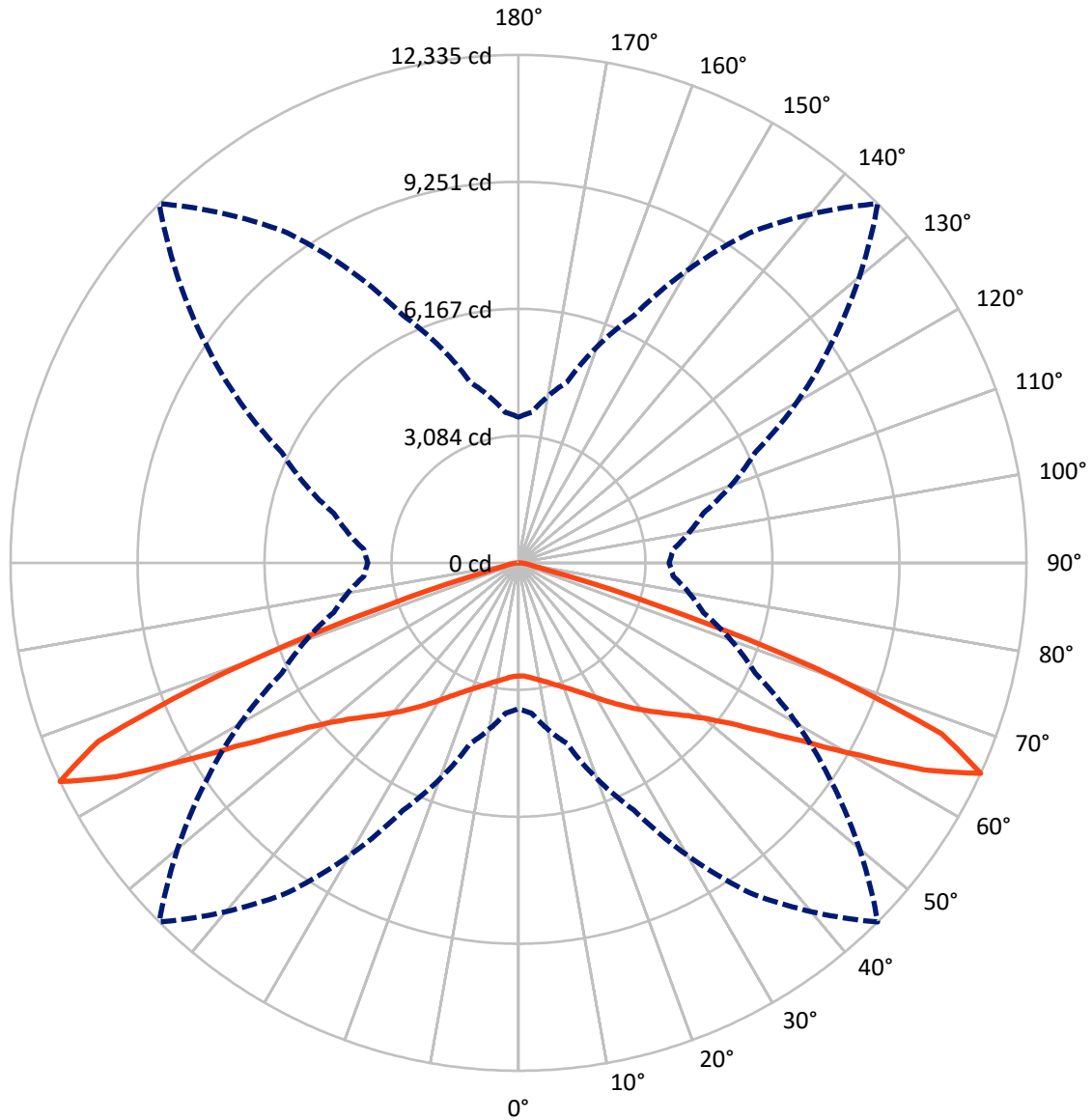
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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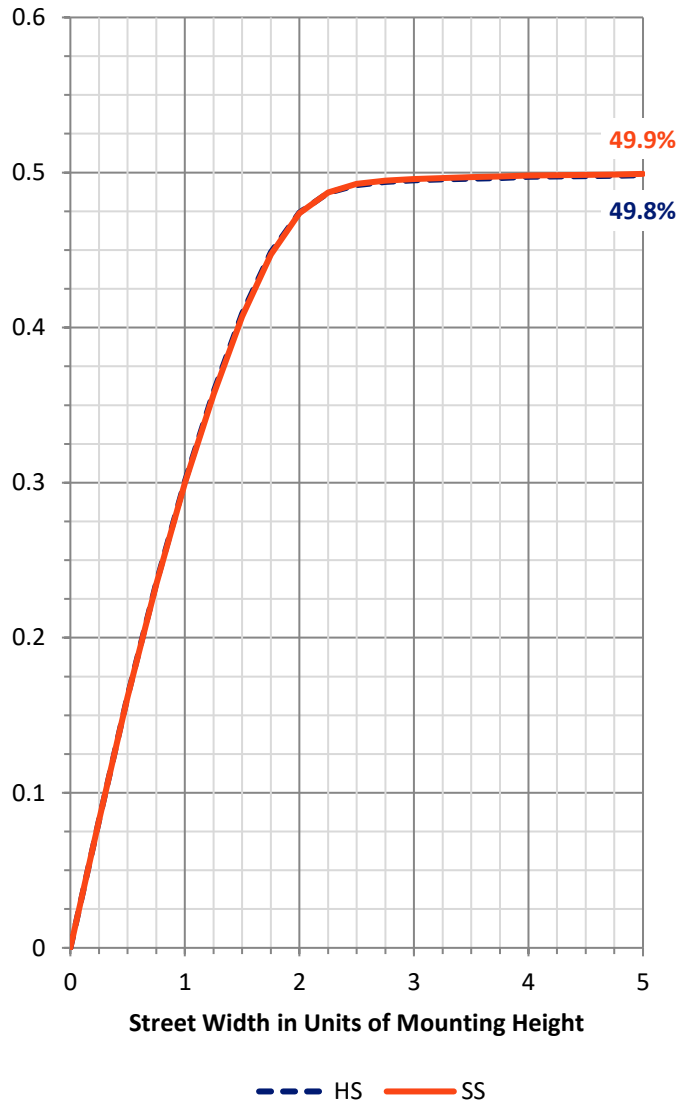
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11381.6	0.0	11381.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11381.6	0.0	11381.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	22763.3	0.0	22763.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.7	1.2
10°-20°	866.9	3.8
20°-30°	1626.5	7.1
30°-40°	2689.9	11.8
40°-50°	4166.3	18.3
50°-60°	6390.0	28.1
60°-70°	5962.5	26.2
70°-80°	693.9	3.0
80°-90°	97.5	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°	22763.3	100.0
0°-180°	22763.3	100.0

Coefficient of Utilization

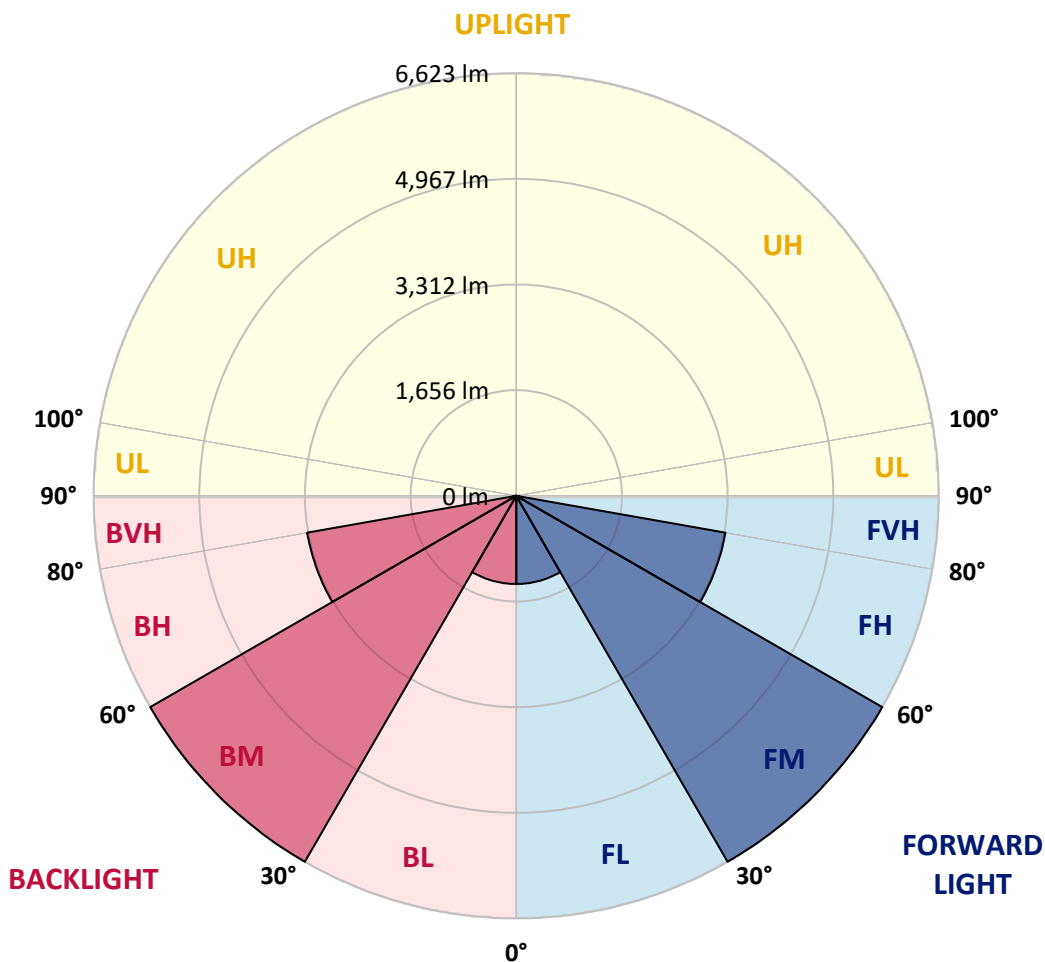


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.6	6.1			
FM (30°-60°)	6623.1	29.1			
FH (60°-80°)	3328.2	14.6			G2/5000
FVH (80°-90°)	48.8	0.2			G1/100
BL (0°-30°)	1381.6	6.1	B3/2500		
BM (30°-60°)	6623.1	29.1	B4/8500		
BH (60°-80°)	3328.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	48.8	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°	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0
2.5°	2758.0	2756.5	2758.0	2758.8	2754.2	2756.5	2755.8	2759.5	2761.0	2759.5	2759.5
5°	2789.8	2787.5	2790.5	2794.3	2788.2	2789.8	2787.5	2792.0	2793.5	2790.5	2792.8
7.5°	2833.6	2834.3	2837.4	2844.2	2840.4	2843.4	2838.9	2839.6	2838.9	2834.3	2835.1
10°	2881.2	2881.9	2887.2	2896.3	2897.9	2897.9	2894.8	2892.5	2889.5	2886.5	2887.2
12.5°	2938.7	2942.4	2946.2	2957.5	2957.5	2963.5	2962.0	2956.0	2950.7	2946.2	2946.2
15°	3016.4	3015.7	3020.3	3031.5	3036.8	3046.6	3046.6	3038.3	3031.5	3027.1	3025.5
17.5°	3098.0	3100.3	3103.4	3117.0	3125.2	3136.6	3138.1	3131.3	3126.7	3120.7	3117.0
20°	3193.3	3197.1	3209.1	3214.4	3221.9	3232.6	3236.3	3234.8	3230.3	3227.3	3228.0
22.5°	3304.4	3314.2	3321.7	3329.3	3338.4	3345.9	3349.7	3355.0	3350.4	3348.2	3346.7
25°	3438.8	3445.6	3460.8	3474.4	3480.4	3482.7	3487.2	3494.8	3494.0	3488.7	3488.7
27.5°	3591.5	3604.3	3623.3	3642.8	3642.8	3635.3	3650.5	3663.2	3658.7	3651.9	3642.8
30°	3776.6	3788.7	3810.6	3837.8	3824.2	3818.9	3839.3	3862.8	3856.0	3844.6	3843.1
32.5°	3976.1	3987.4	4016.2	4045.6	4028.2	4020.7	4042.5	4076.5	4064.5	4041.8	4028.2
35°	4192.2	4203.5	4244.3	4279.8	4250.4	4237.5	4255.7	4292.7	4271.5	4229.2	4218.6
37.5°	4427.2	4433.2	4486.1	4522.4	4502.0	4468.0	4490.7	4517.9	4499.7	4448.3	4427.9
40°	4671.2	4693.1	4754.3	4796.7	4761.1	4707.6	4745.3	4783.1	4755.9	4690.2	4655.4
42.5°	4956.1	4972.8	5054.4	5092.1	5034.7	4959.2	5010.5	5061.9	5034.7	4971.2	4941.0
45°	5252.3	5278.1	5375.5	5413.3	5330.1	5234.2	5296.9	5386.9	5384.5	5293.1	5261.4
47.5°	5574.9	5600.7	5717.0	5766.9	5677.0	5548.6	5637.0	5763.9	5754.8	5654.3	5628.6
50°	5947.5	5974.7	6119.8	6182.5	6098.7	5949.0	6082.0	6193.9	6177.2	6053.3	6055.5
52.5°	6415.2	6413.7	6594.3	6703.1	6617.0	6484.8	6607.2	6716.0	6647.2	6475.7	6470.4
55°	6824.8	6849.8	7073.4	7279.7	7274.4	7223.8	7272.9	7277.4	7081.0	6852.7	6824.8
57.5°	7093.8	7141.4	7456.5	7829.8	8109.3	8176.6	8081.4	7792.8	7332.6	6967.6	6923.0
60°	6928.3	7000.9	7495.8	8256.7	9080.4	9475.5	8938.3	8042.9	7136.9	6628.3	6567.9
62.5°	5811.5	5933.9	6658.5	8050.4	9916.0	11071.4	9559.4	7641.6	6358.6	5658.1	5554.5
65°	3539.3	3668.5	4542.0	6626.1	9780.8	12334.8	9276.1	6342.7	4641.1	3769.8	3658.0
67.5°	1179.5	1217.3	1731.9	3662.5	7686.9	11082.7	7699.8	3797.0	2019.8	1339.0	1299.7
70°	461.7	465.5	549.3	1061.7	3630.1	7612.1	4005.6	1080.5	574.3	454.1	463.9
72.5°	339.3	340.8	364.2	443.5	946.1	3353.5	980.1	445.8	354.4	318.1	318.1
75°	272.8	272.8	289.4	323.4	423.9	769.2	429.9	319.6	277.3	253.8	250.9
77.5°	215.4	219.8	232.7	254.7	287.1	370.3	297.7	253.1	223.7	201.8	197.2
80°	160.2	164.7	185.8	196.5	206.2	256.9	219.8	198.0	176.8	151.1	146.6
82.5°	105.0	109.5	136.0	142.1	139.8	167.8	148.1	145.9	130.0	97.4	93.0
85°	68.7	70.2	90.6	94.5	86.9	76.3	94.5	99.8	90.6	63.4	61.2
87.5°	32.5	32.5	46.1	43.0	39.3	31.8	43.0	50.6	51.4	31.0	30.2
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)