

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: P383130

Luminaire Tested: **GLEON-SA4D-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383130
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-SA4D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 30630.2 lumens
Efficiency: N/A
Efficacy: 118.7 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): 258
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

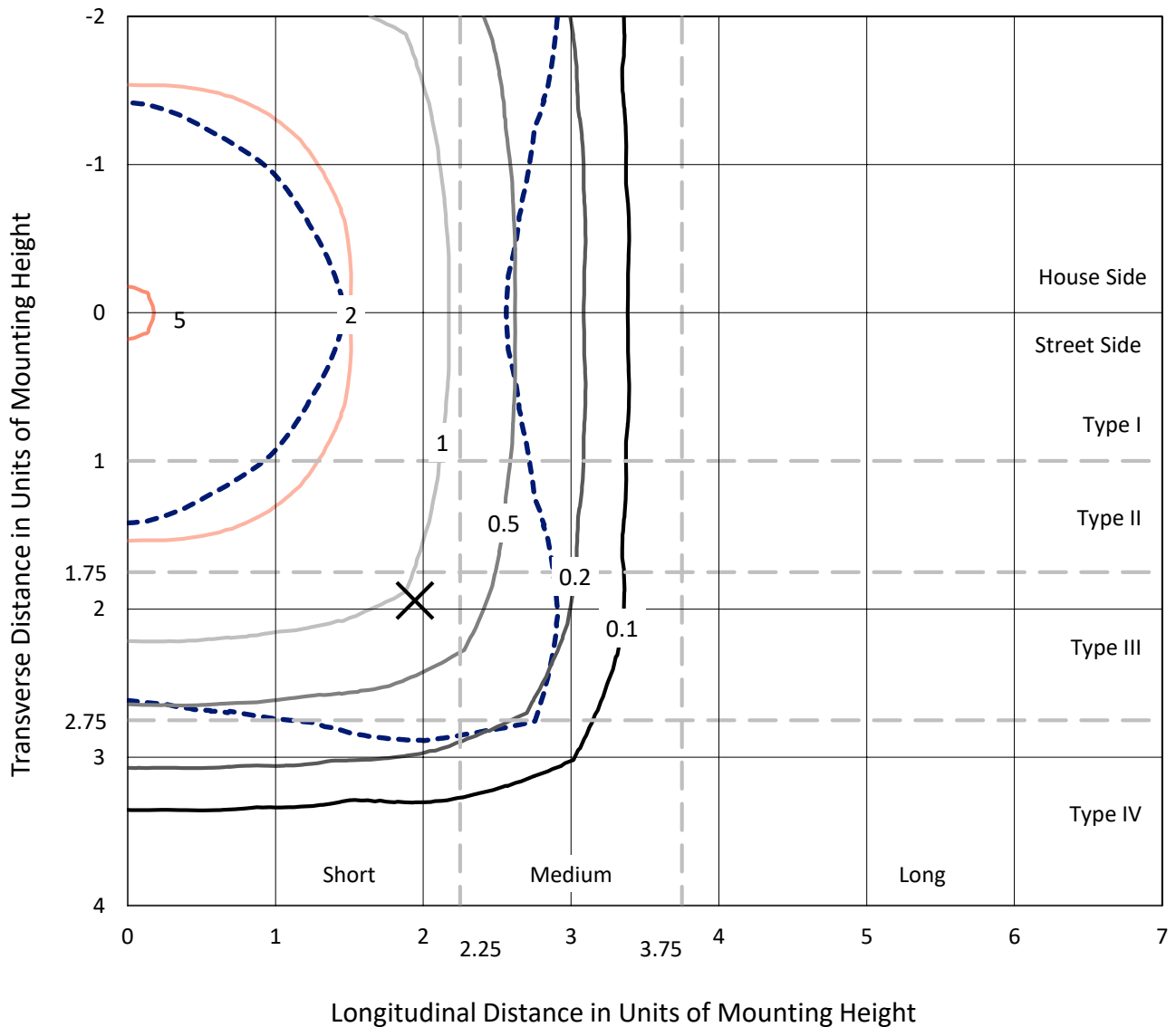




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Iso-Footcandle Lines of Horizontal Illumination

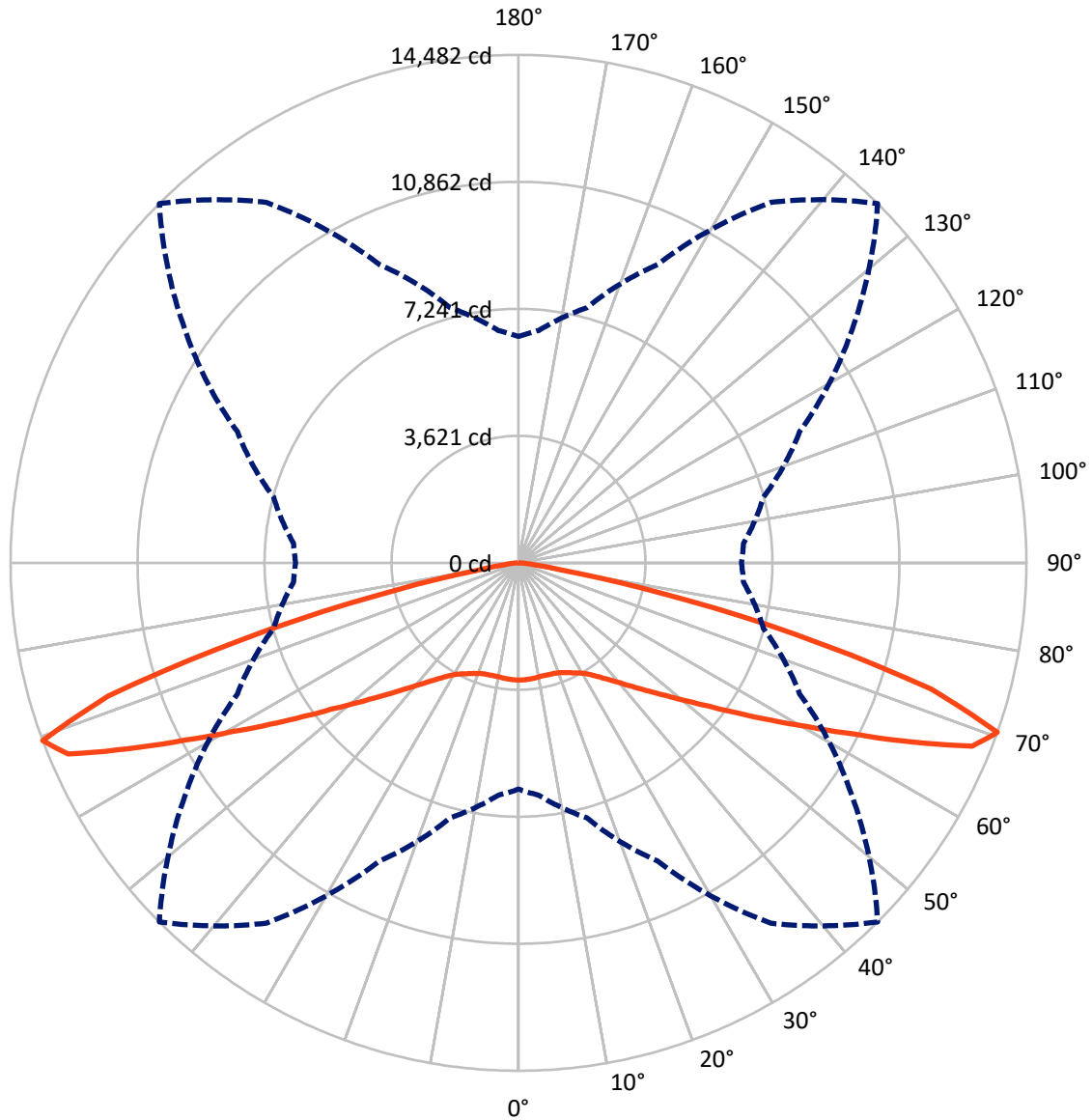
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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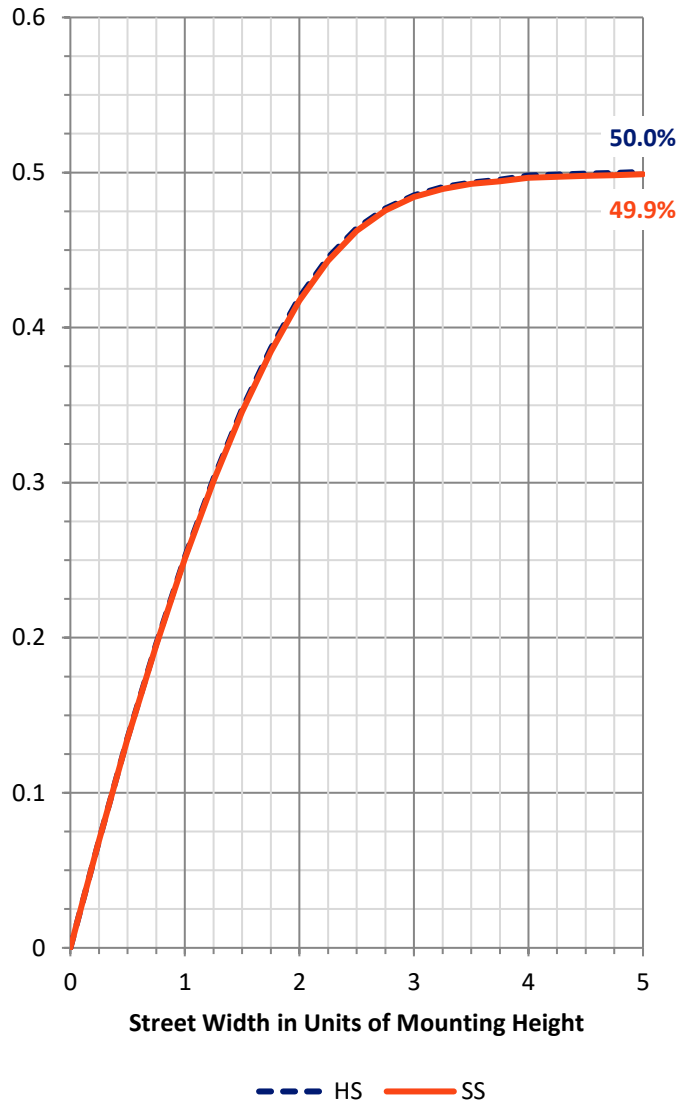
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15315.1	0.0	15315.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15315.1	0.0	15315.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	30630.2	0.0	30630.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	1.0
10°-20°	930.1	3.0
20°-30°	1583.4	5.2
30°-40°	2511.3	8.2
40°-50°	4086.6	13.3
50°-60°	6738.1	22.0
60°-70°	9891.7	32.3
70°-80°	4374.1	14.3
80°-90°	198.1	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°	30630.2	100.0
0°-180°	30630.2	100.0

Coefficient of Utilization



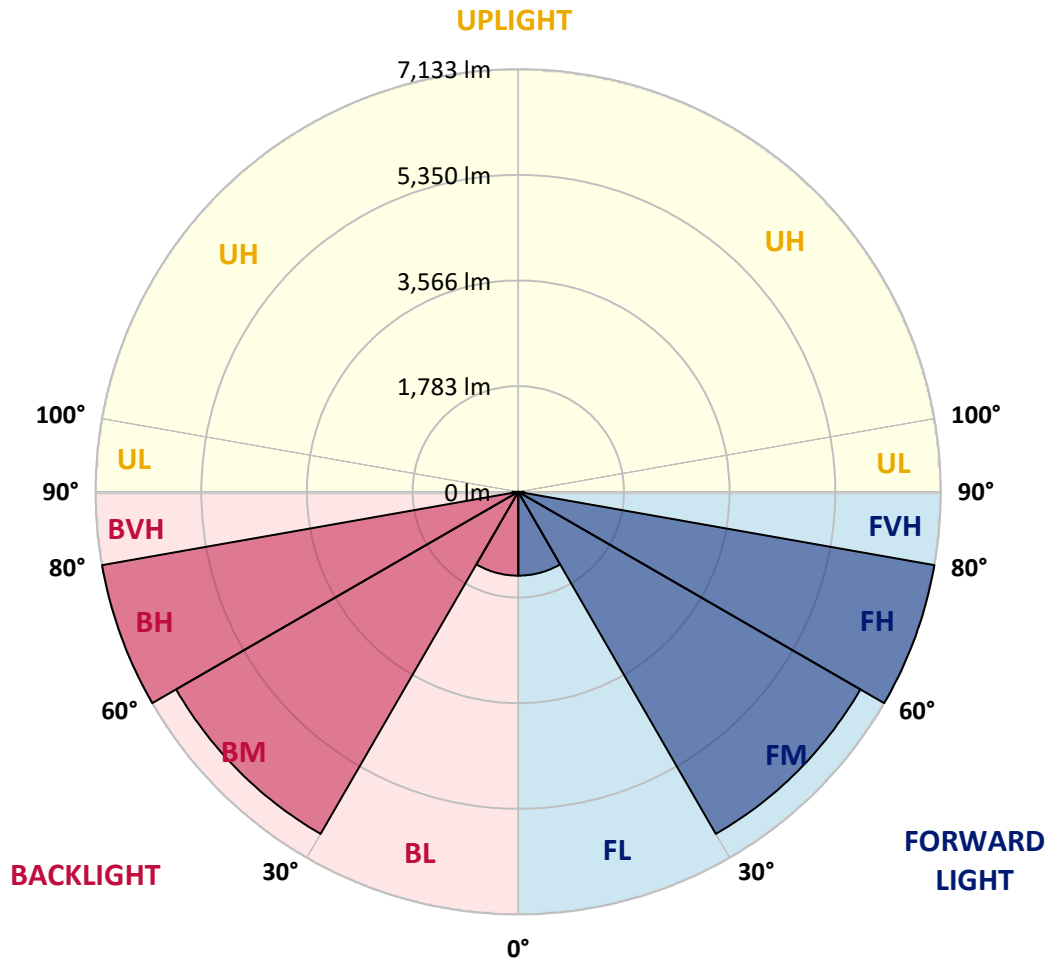
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.2	4.6			
FM (30°-60°)	6668.0	21.8			
FH (60°-80°)	7132.9	23.3			G3/7500
FVH (80°-90°)	99.0	0.3			G1/100
BL (0°-30°)	1415.2	4.6	B3/2500		
BM (30°-60°)	6668.0	21.8	B4/8500		
BH (60°-80°)	7132.9	23.3	B5		G3/7500
BVH (80°-90°)	99.0	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°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
2.5°	3340.3	3337.2	3344.3	3343.2	3337.2	3338.2	3338.2	3341.3	3341.3	3339.2	3339.2
5°	3328.0	3326.0	3334.1	3334.1	3328.0	3330.1	3332.1	3335.1	3334.1	3332.1	3331.1
7.5°	3312.9	3311.8	3319.9	3319.9	3315.9	3317.9	3315.9	3316.9	3314.9	3312.9	3309.8
10°	3287.5	3289.6	3296.7	3298.7	3298.7	3299.6	3297.7	3292.6	3289.6	3286.5	3283.4
12.5°	3264.2	3263.2	3273.4	3278.4	3286.5	3295.6	3289.6	3275.3	3269.3	3263.2	3261.2
15°	3249.0	3250.0	3260.1	3269.3	3283.4	3302.7	3295.6	3273.4	3261.2	3254.1	3252.0
17.5°	3246.0	3247.9	3261.2	3277.4	3292.6	3313.9	3309.8	3287.5	3267.2	3254.1	3251.0
20°	3253.1	3254.1	3274.3	3297.7	3324.0	3344.3	3335.1	3310.8	3283.4	3263.2	3258.1
22.5°	3266.2	3270.3	3295.6	3332.1	3372.7	3400.1	3388.9	3347.3	3304.8	3279.4	3272.3
25°	3307.8	3308.8	3343.2	3393.0	3441.6	3473.0	3459.9	3401.1	3346.3	3317.9	3308.8
27.5°	3394.0	3397.0	3431.4	3489.2	3530.8	3551.1	3543.0	3495.4	3448.7	3418.3	3421.3
30°	3518.6	3522.7	3561.2	3625.1	3650.5	3655.5	3653.4	3631.2	3588.6	3548.1	3551.1
32.5°	3670.7	3672.7	3724.4	3782.2	3802.5	3806.6	3802.5	3782.2	3731.5	3676.8	3679.8
35°	3866.4	3872.4	3922.1	3977.9	3994.1	4002.2	3995.1	3968.8	3916.0	3862.3	3860.2
37.5°	4107.7	4108.6	4160.3	4218.1	4238.4	4240.4	4232.3	4215.1	4149.2	4100.5	4097.5
40°	4387.4	4391.5	4452.3	4514.1	4522.2	4513.1	4524.2	4514.1	4446.2	4390.5	4399.6
42.5°	4728.0	4737.1	4810.1	4871.0	4847.7	4842.6	4849.6	4852.7	4797.9	4730.0	4724.0
45°	5124.4	5132.5	5223.7	5272.4	5257.2	5223.7	5237.9	5262.2	5186.2	5102.1	5110.2
47.5°	5576.5	5596.7	5694.1	5739.7	5702.2	5656.6	5683.9	5720.4	5631.2	5526.9	5521.7
50°	6079.3	6104.6	6234.4	6298.3	6260.7	6176.6	6222.3	6246.6	6117.8	5983.1	5971.9
52.5°	6615.6	6640.9	6804.1	6935.9	6911.6	6780.8	6844.6	6819.3	6671.4	6489.9	6475.7
55°	7222.8	7232.9	7409.3	7622.2	7646.5	7550.2	7546.2	7504.6	7285.6	7075.8	7065.7
57.5°	7847.3	7854.3	8082.5	8333.8	8448.4	8448.4	8334.8	8246.6	7955.7	7712.5	7687.1
60°	8521.4	8546.8	8799.1	9140.8	9408.4	9487.4	9286.8	9046.5	8730.2	8433.2	8403.8
62.5°	9121.5	9150.9	9537.1	10046.0	10475.8	10763.8	10273.1	9881.8	9306.0	8829.6	8773.8
65°	9197.5	9276.6	9839.2	10760.7	11722.7	12297.5	11356.8	10392.7	9343.5	8681.6	8624.8
67.5°	8399.8	8533.5	9293.9	10728.3	12716.2	13949.9	12049.2	10100.8	8670.4	7938.5	7875.7
70°	6454.4	6649.0	7525.9	9384.0	12544.9	14482.1	11615.3	8842.7	7228.9	6441.2	6353.1
72.5°	3540.9	3621.0	4409.7	6426.0	10057.2	12306.7	9688.2	6538.5	4793.9	3900.9	3752.8
75°	1123.2	1151.6	1553.0	2629.6	5689.1	8151.4	6154.4	3209.5	1767.0	1302.7	1287.4
77.5°	498.8	501.8	561.6	767.4	1959.5	4129.9	2353.8	873.8	602.2	526.1	543.4
80°	315.2	315.2	347.7	380.2	533.2	1199.3	636.6	415.7	354.8	329.5	336.6
82.5°	151.0	167.3	226.1	243.3	293.0	403.5	326.4	271.6	237.2	176.3	164.2
85°	99.3	83.1	142.9	161.2	170.3	193.6	189.6	179.4	155.1	88.2	98.4
87.5°	44.6	42.6	74.0	67.9	63.9	48.6	73.0	90.3	87.2	43.6	43.6
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)