

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: P458948

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-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: 29900 lumens
Efficiency: N/A
Efficacy: 122.0 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): 245
Input Voltage (V): NR
Input Current (A_{in}): 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

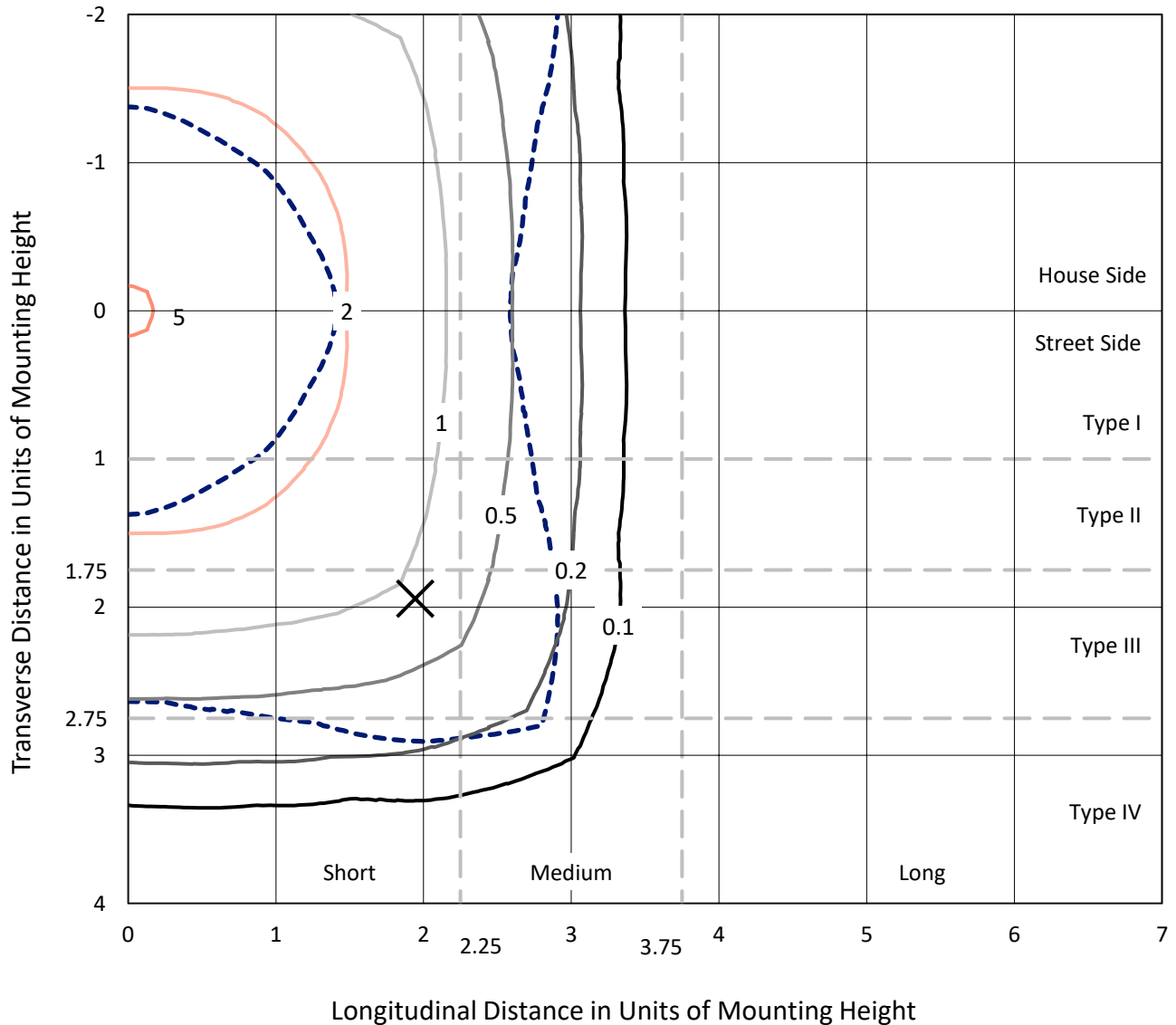




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Iso-Footcandle Lines of Horizontal Illumination

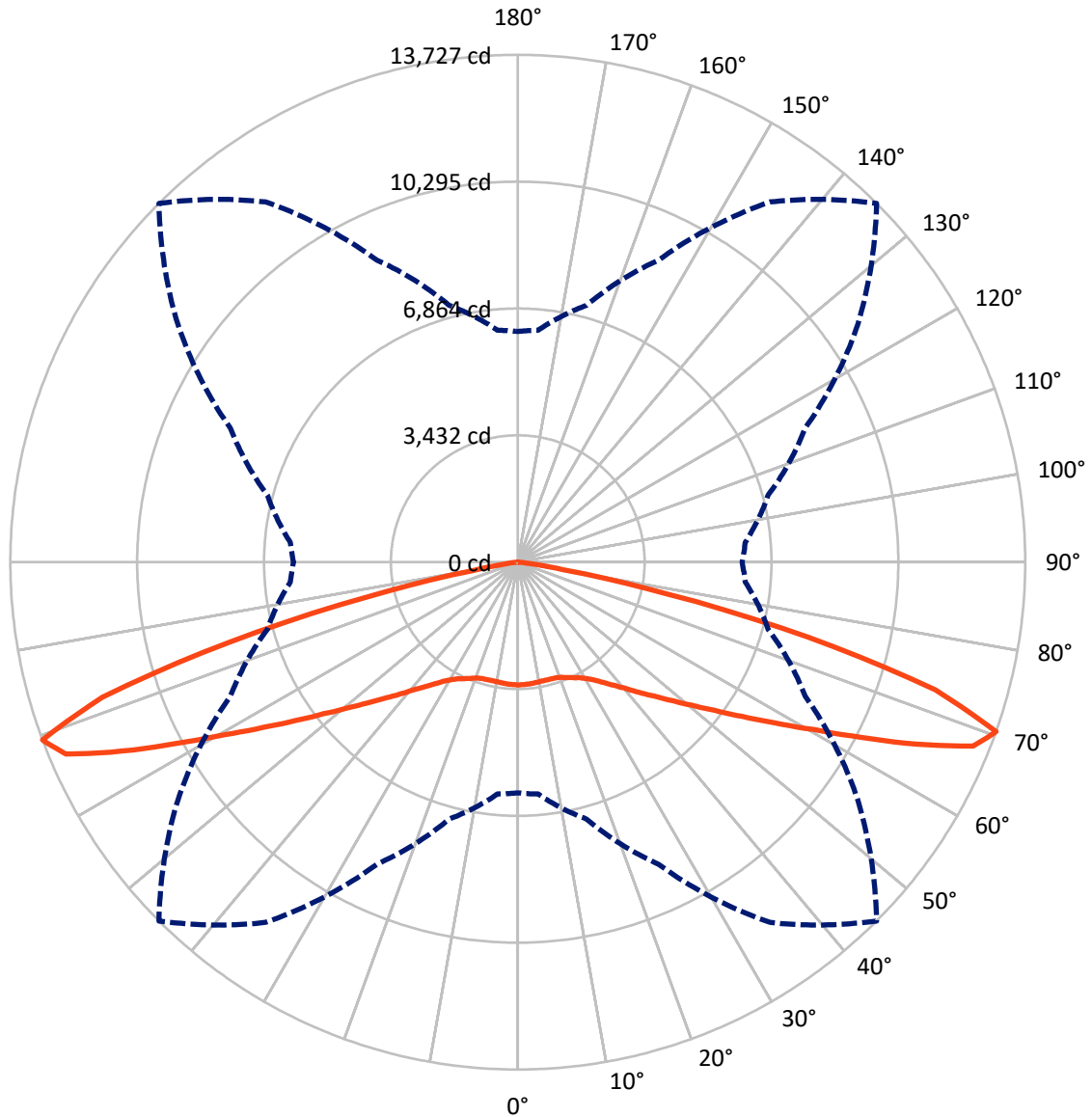
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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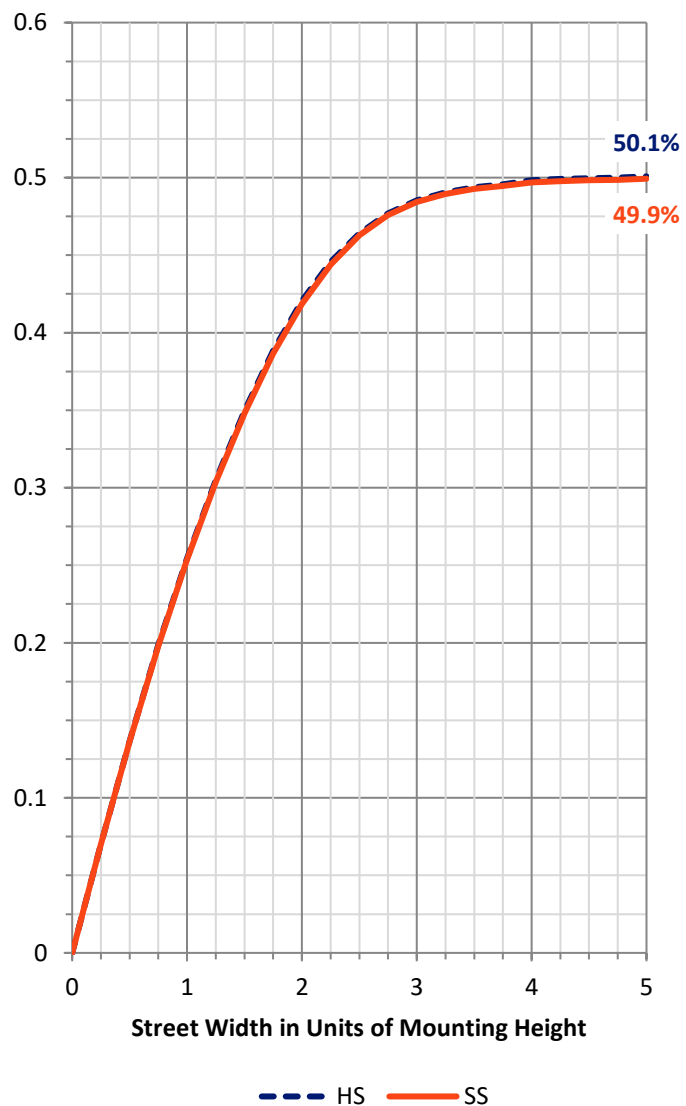
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14950.0	0.0	14950.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14950.0	0.0	14950.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29900.0	0.0	29900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	1.1
10°-20°	923.9	3.1
20°-30°	1580.2	5.3
30°-40°	2508.1	8.4
40°-50°	4046.2	13.5
50°-60°	6583.3	22.0
60°-70°	9543.4	31.9
70°-80°	4233.1	14.2
80°-90°	167.0	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°	29900.0	100.0
0°-180°	29900.0	100.0

Coefficient of Utilization



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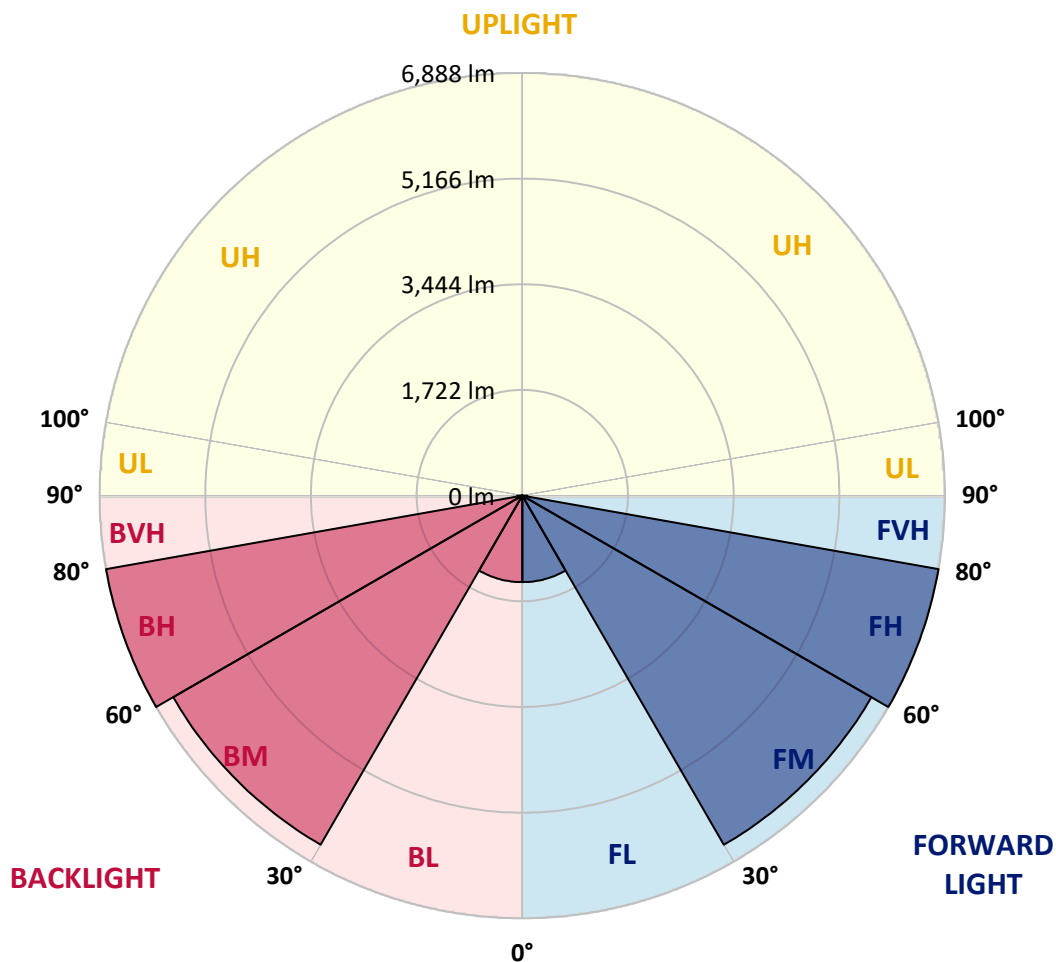
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1409.5	4.7			
FM (30°-60°)	6568.8	22.0			
FH (60°-80°)	6888.2	23.0			G3/7500
FVH (80°-90°)	83.5	0.3			G1/100
BL (0°-30°)	1409.5	4.7	B3/2500		
BM (30°-60°)	6568.8	22.0	B4/8500		
BH (60°-80°)	6888.2	23.0	B5		G3/7500
BVH (80°-90°)	83.5	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°	3320.3	3320.3	3320.3	3320.3	3320.3	3320.3	3320.3	3320.3	3320.3	3320.3	3320.3
2.5°	3320.3	3323.4	3318.7	3315.5	3314.0	3314.0	3312.4	3314.0	3323.4	3325.0	3320.3
5°	3310.8	3314.0	3312.4	3309.2	3307.6	3307.6	3306.1	3304.5	3312.4	3315.5	3314.0
7.5°	3298.2	3299.8	3298.2	3296.6	3298.2	3296.6	3291.9	3288.7	3295.0	3295.0	3293.5
10°	3276.1	3279.3	3277.7	3279.3	3282.4	3282.4	3276.1	3269.8	3271.4	3268.3	3268.3
12.5°	3249.3	3254.1	3255.6	3261.9	3269.8	3279.3	3265.1	3250.9	3247.8	3246.2	3244.6
15°	3232.0	3236.7	3243.0	3249.3	3263.5	3284.0	3263.5	3241.5	3235.2	3228.9	3225.7
17.5°	3227.3	3233.6	3243.0	3252.5	3271.4	3291.9	3274.6	3252.5	3236.7	3227.3	3224.1
20°	3239.9	3244.6	3258.8	3276.1	3302.9	3323.4	3306.1	3282.4	3258.8	3244.6	3239.9
22.5°	3265.1	3273.0	3290.3	3321.8	3359.6	3389.6	3366.0	3326.6	3288.7	3269.8	3263.5
25°	3320.3	3326.6	3347.0	3389.6	3433.7	3462.1	3436.9	3391.2	3339.2	3314.0	3306.1
27.5°	3403.8	3413.2	3435.3	3485.7	3522.0	3537.7	3520.4	3488.9	3451.0	3424.3	3418.0
30°	3522.0	3533.0	3566.1	3619.7	3643.3	3652.8	3644.9	3624.4	3597.6	3569.2	3562.9
32.5°	3681.1	3687.4	3725.2	3775.7	3797.7	3800.9	3791.4	3782.0	3737.8	3690.6	3687.4
35°	3859.2	3870.2	3915.9	3975.8	3996.3	3997.9	3978.9	3964.8	3912.8	3874.9	3874.9
37.5°	4095.6	4100.3	4144.4	4212.2	4234.2	4227.9	4218.5	4205.9	4150.7	4101.9	4103.4
40°	4372.9	4382.4	4420.2	4499.0	4499.0	4491.1	4497.4	4487.9	4432.8	4385.5	4387.1
42.5°	4702.2	4707.0	4752.7	4836.2	4829.9	4814.1	4820.4	4807.8	4773.2	4719.6	4700.7
45°	5053.7	5072.6	5151.4	5231.7	5219.1	5168.7	5193.9	5190.8	5159.2	5078.9	5083.6
47.5°	5477.6	5509.1	5584.7	5680.8	5666.7	5587.9	5616.2	5635.1	5591.0	5502.8	5487.0
50°	5955.0	5975.5	6087.4	6177.2	6164.6	6081.1	6145.7	6148.9	6038.5	5914.1	5914.1
52.5°	6464.0	6484.5	6635.8	6776.0	6783.9	6662.6	6714.6	6711.4	6531.8	6367.9	6336.4
55°	7034.5	7043.9	7239.3	7445.8	7489.9	7371.7	7378.0	7315.0	7081.7	6891.1	6873.7
57.5°	7623.8	7658.5	7874.4	8142.3	8273.1	8200.6	8167.5	7998.9	7773.5	7554.5	7543.5
60°	8276.2	8277.8	8558.3	8875.0	9139.8	9188.6	9053.1	8827.7	8536.2	8246.3	8233.7
62.5°	8728.5	8796.2	9150.8	9686.6	10160.9	10435.1	10077.4	9604.6	9031.0	8563.0	8515.7
65°	8821.4	8867.1	9407.6	10315.3	11284.5	11875.4	11048.1	10042.7	9064.1	8440.1	8408.6
67.5°	8069.8	8118.6	8846.7	10239.7	12072.4	13284.2	11678.4	9831.5	8503.1	7731.0	7669.5
70°	6241.8	6297.0	7196.8	9013.7	11897.4	13727.0	11229.3	8575.6	7012.4	6178.8	6066.9
72.5°	3318.7	3522.0	4291.0	6186.7	9656.6	11818.7	9207.5	6257.6	4522.6	3696.9	3548.7
75°	1211.8	1237.0	1665.6	2743.5	5617.8	8104.4	5833.7	2984.6	1716.1	1325.3	1257.5
77.5°	501.1	499.5	548.4	828.9	2040.7	4150.7	2277.1	876.2	546.8	505.8	499.5
80°	296.3	296.3	326.2	345.1	537.4	1252.8	600.4	390.8	327.8	299.4	304.1
82.5°	132.4	140.2	206.4	217.5	260.0	343.5	290.0	249.0	214.3	148.1	133.9
85°	72.5	63.0	108.7	113.5	124.5	127.6	137.1	135.5	124.5	72.5	74.1
87.5°	14.2	17.3	31.5	23.6	26.8	23.6	31.5	44.1	45.7	25.2	20.5
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)