

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: P647420

Luminaire Tested: **GALN-SA5D-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647420
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-SA5D-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 31814.8 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

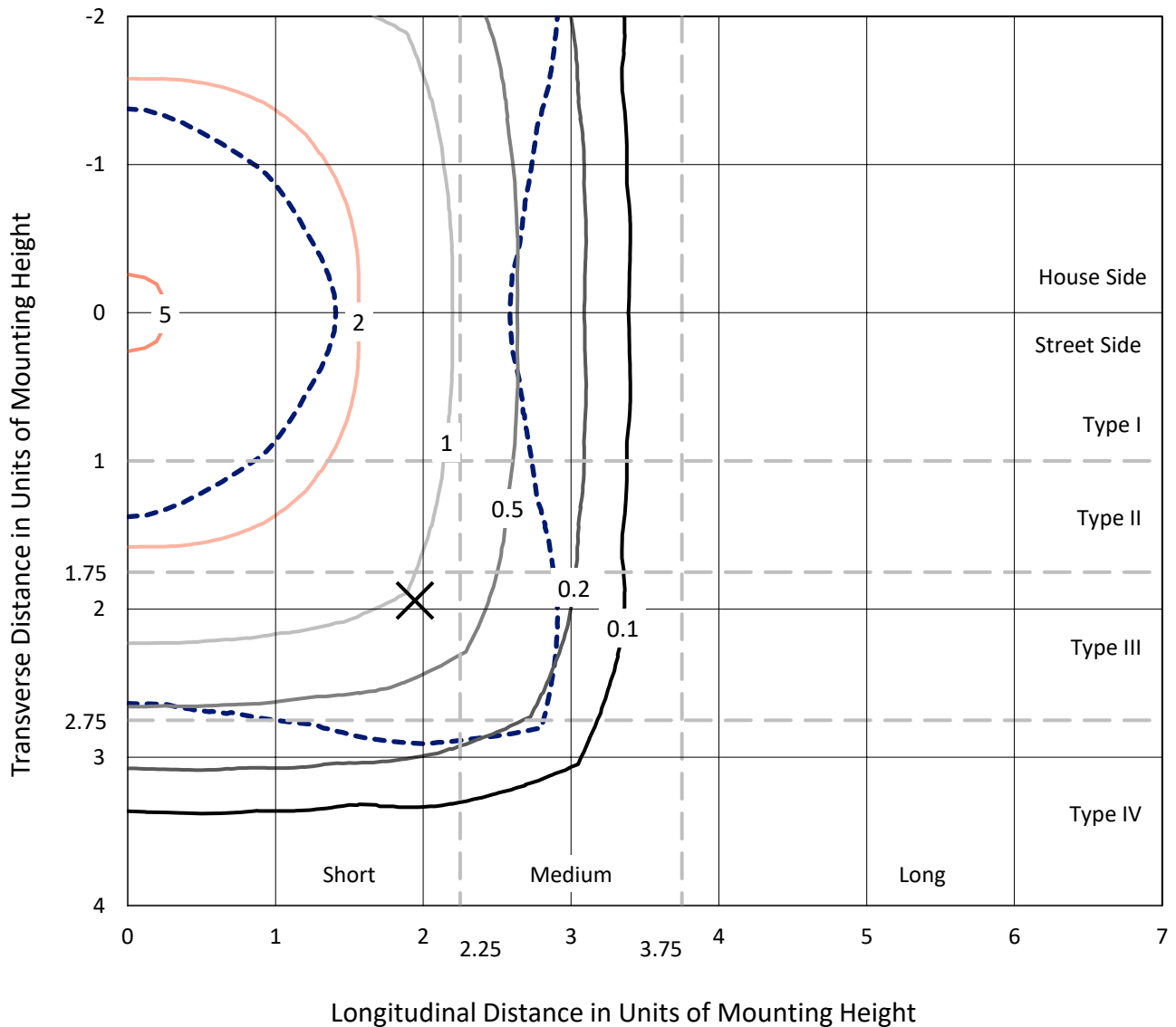
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

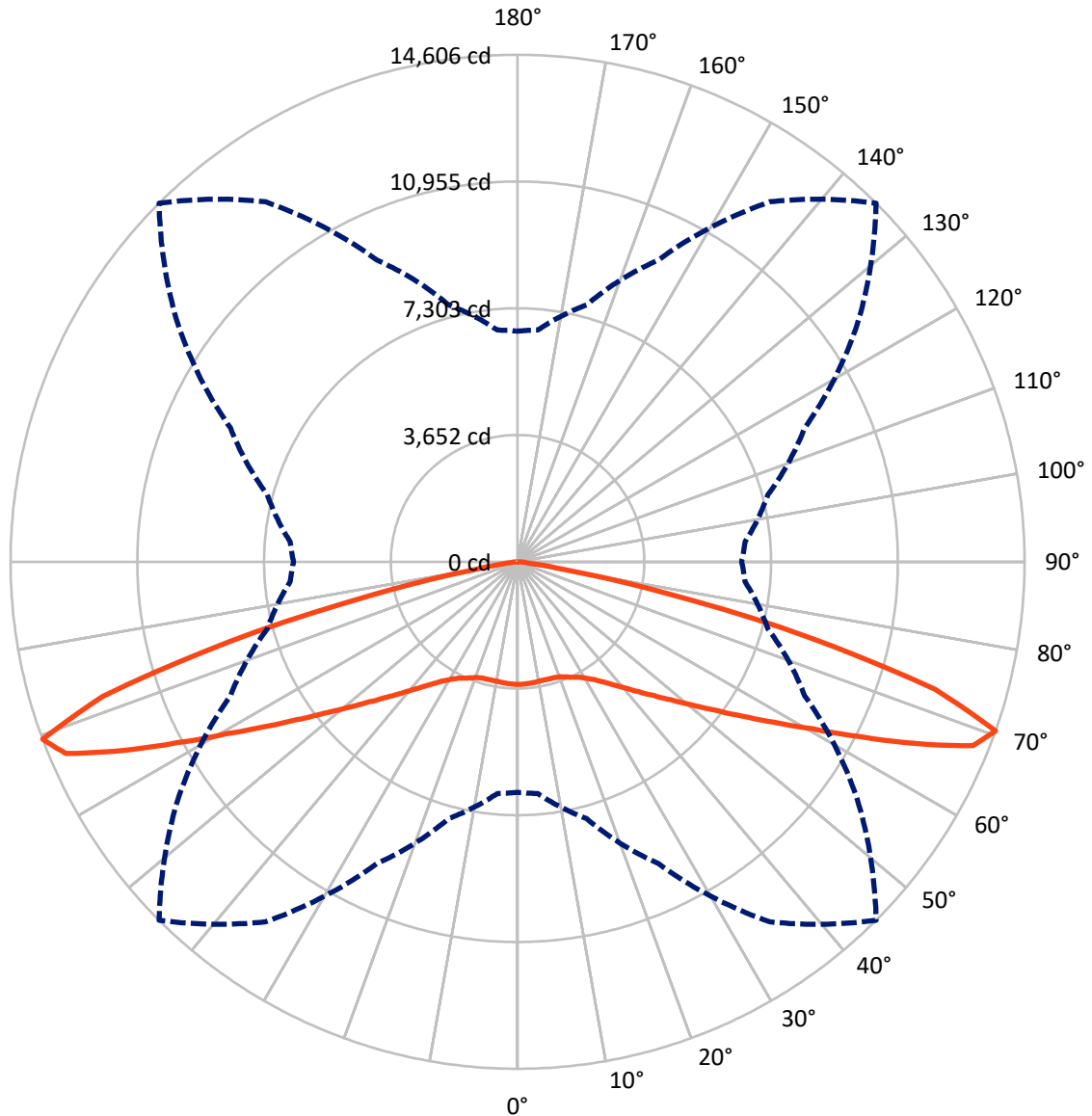
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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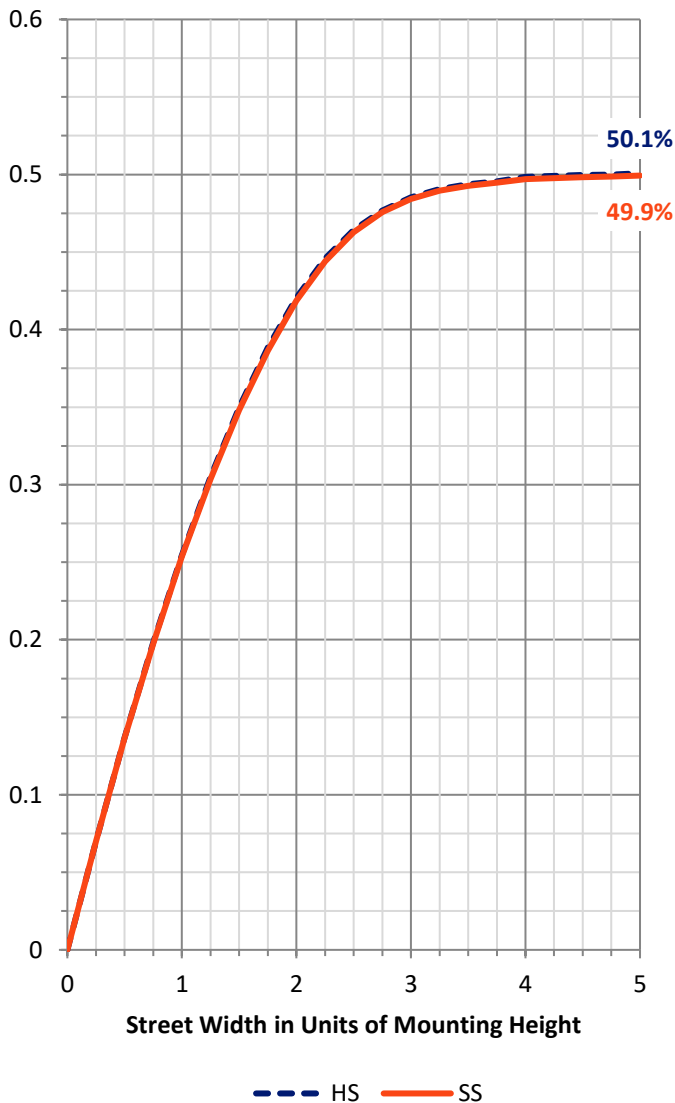
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15907.4	0.0	15907.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15907.4	0.0	15907.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31814.8	0.0	31814.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	1.1
10°-20°	983.1	3.1
20°-30°	1681.4	5.3
30°-40°	2668.7	8.4
40°-50°	4305.3	13.5
50°-60°	7004.9	22.0
60°-70°	10154.6	31.9
70°-80°	4504.2	14.2
80°-90°	177.6	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°	31814.8	100.0
0°-180°	31814.8	100.0



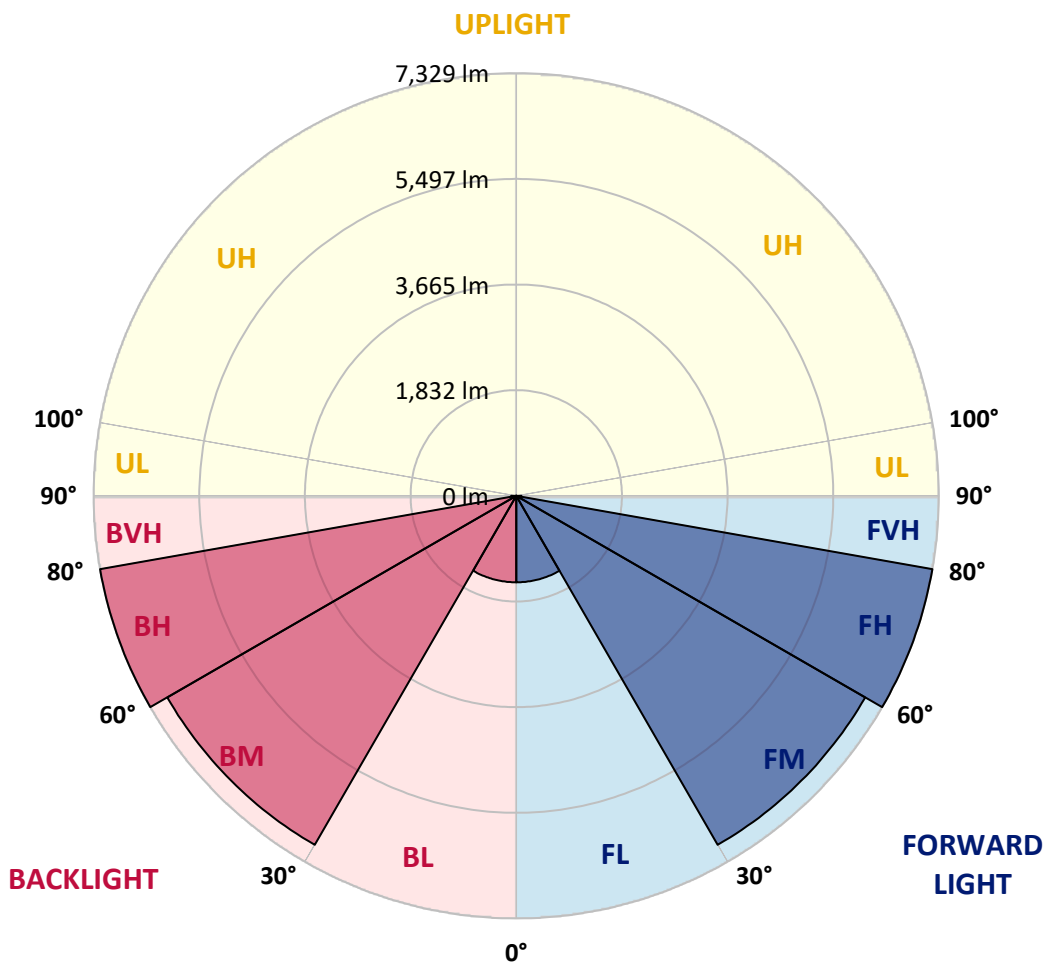
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.7	4.7			
FM (30°-60°)	6989.5	22.0			
FH (60°-80°)	7329.4	23.0			G3/7500
FVH (80°-90°)	88.8	0.3			G1/100
BL (0°-30°)	1499.7	4.7	B3/2500		
BM (30°-60°)	6989.5	22.0	B4/8500		
BH (60°-80°)	7329.4	23.0	B5		G3/7500
BVH (80°-90°)	88.8	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°	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9
2.5°	3532.9	3536.3	3531.3	3527.9	3526.2	3526.2	3524.5	3526.2	3536.3	3537.9	3532.9
5°	3522.8	3526.2	3524.5	3521.2	3519.5	3519.5	3517.8	3516.1	3524.5	3527.9	3526.2
7.5°	3509.4	3511.1	3509.4	3507.8	3509.4	3507.8	3502.7	3499.4	3506.0	3506.0	3504.4
10°	3485.9	3489.3	3487.6	3489.3	3492.6	3492.6	3485.9	3479.3	3480.9	3477.5	3477.5
12.5°	3457.4	3462.5	3464.1	3470.9	3479.3	3489.3	3474.2	3459.1	3455.8	3454.0	3452.4
15°	3439.0	3444.0	3450.8	3457.4	3472.5	3494.3	3472.5	3449.0	3442.4	3435.6	3432.3
17.5°	3433.9	3440.7	3450.8	3460.8	3480.9	3502.7	3484.3	3460.8	3444.0	3433.9	3430.6
20°	3447.4	3452.4	3467.5	3485.9	3514.4	3536.3	3517.8	3492.6	3467.5	3452.4	3447.4
22.5°	3474.2	3482.5	3501.0	3534.5	3574.8	3606.7	3581.5	3539.6	3499.4	3479.3	3472.5
25°	3532.9	3539.6	3561.4	3606.7	3653.6	3683.8	3657.0	3608.4	3553.0	3526.2	3517.8
27.5°	3621.8	3631.8	3655.3	3708.9	3747.5	3764.3	3745.9	3712.3	3672.0	3643.5	3636.9
30°	3747.5	3759.3	3794.5	3851.5	3876.6	3886.7	3878.3	3856.5	3828.0	3797.8	3791.1
32.5°	3916.9	3923.5	3963.8	4017.5	4040.9	4044.3	4034.3	4024.2	3977.2	3926.9	3923.5
35°	4106.4	4118.1	4166.7	4230.4	4252.2	4253.9	4233.8	4218.6	4163.4	4123.1	4123.1
37.5°	4357.9	4362.9	4409.9	4481.9	4505.4	4498.7	4488.6	4475.2	4416.5	4364.5	4366.2
40°	4653.0	4663.0	4703.2	4787.1	4787.1	4778.7	4785.4	4775.4	4716.6	4666.4	4668.0
42.5°	5003.4	5008.5	5057.1	5145.9	5139.2	5122.5	5129.1	5115.7	5078.9	5021.8	5001.7
45°	5377.3	5397.5	5481.2	5566.7	5553.3	5499.7	5526.6	5523.2	5489.6	5404.1	5409.2
47.5°	5828.3	5861.9	5942.3	6044.7	6029.6	5945.7	5975.9	5996.1	5949.1	5855.2	5838.4
50°	6336.4	6358.2	6477.2	6572.8	6559.4	6470.6	6539.3	6542.7	6425.3	6292.8	6292.8
52.5°	6878.0	6899.8	7060.8	7209.9	7218.4	7089.3	7144.6	7141.2	6950.1	6775.7	6742.2
55°	7484.9	7495.0	7702.9	7922.6	7969.5	7843.8	7850.5	7783.4	7535.3	7332.4	7313.9
57.5°	8112.0	8148.9	8378.6	8663.7	8802.9	8725.8	8690.5	8511.1	8271.4	8038.3	8026.5
60°	8806.2	8807.9	9106.4	9443.4	9725.1	9777.1	9632.9	9393.1	9082.9	8774.4	8761.0
62.5°	9287.5	9359.6	9736.8	10306.9	10811.6	11103.3	10722.7	10219.7	9609.4	9111.4	9061.1
65°	9386.4	9435.0	10010.1	10975.9	12007.1	12635.9	11755.6	10685.8	9644.6	8980.6	8947.1
67.5°	8586.6	8638.5	9413.2	10895.4	12845.5	14135.0	12426.3	10461.2	9047.7	8226.1	8160.7
70°	6641.6	6700.3	7657.7	9591.0	12659.4	14606.1	11948.4	9124.8	7461.5	6574.5	6455.4
72.5°	3531.3	3747.5	4565.8	6582.9	10275.1	12575.5	9797.2	6658.3	4812.2	3933.6	3776.0
75°	1289.4	1316.2	1772.3	2919.2	5977.6	8623.5	6207.3	3175.8	1826.0	1410.1	1338.1
77.5°	533.2	531.5	583.5	882.0	2171.4	4416.5	2422.9	932.2	581.8	538.2	531.5
80°	315.2	315.2	347.1	367.2	571.7	1333.0	638.8	415.9	348.7	318.6	323.6
82.5°	140.9	149.2	219.6	231.4	276.6	365.5	308.5	264.9	228.0	157.6	142.5
85°	77.1	67.1	115.7	120.7	132.5	135.9	145.9	144.2	132.5	77.1	78.8
87.5°	15.1	18.5	33.5	25.1	28.5	25.1	33.5	47.0	48.6	26.9	21.8
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)