

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: P647433

Luminaire Tested: **GALN-SA5D-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 31296.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

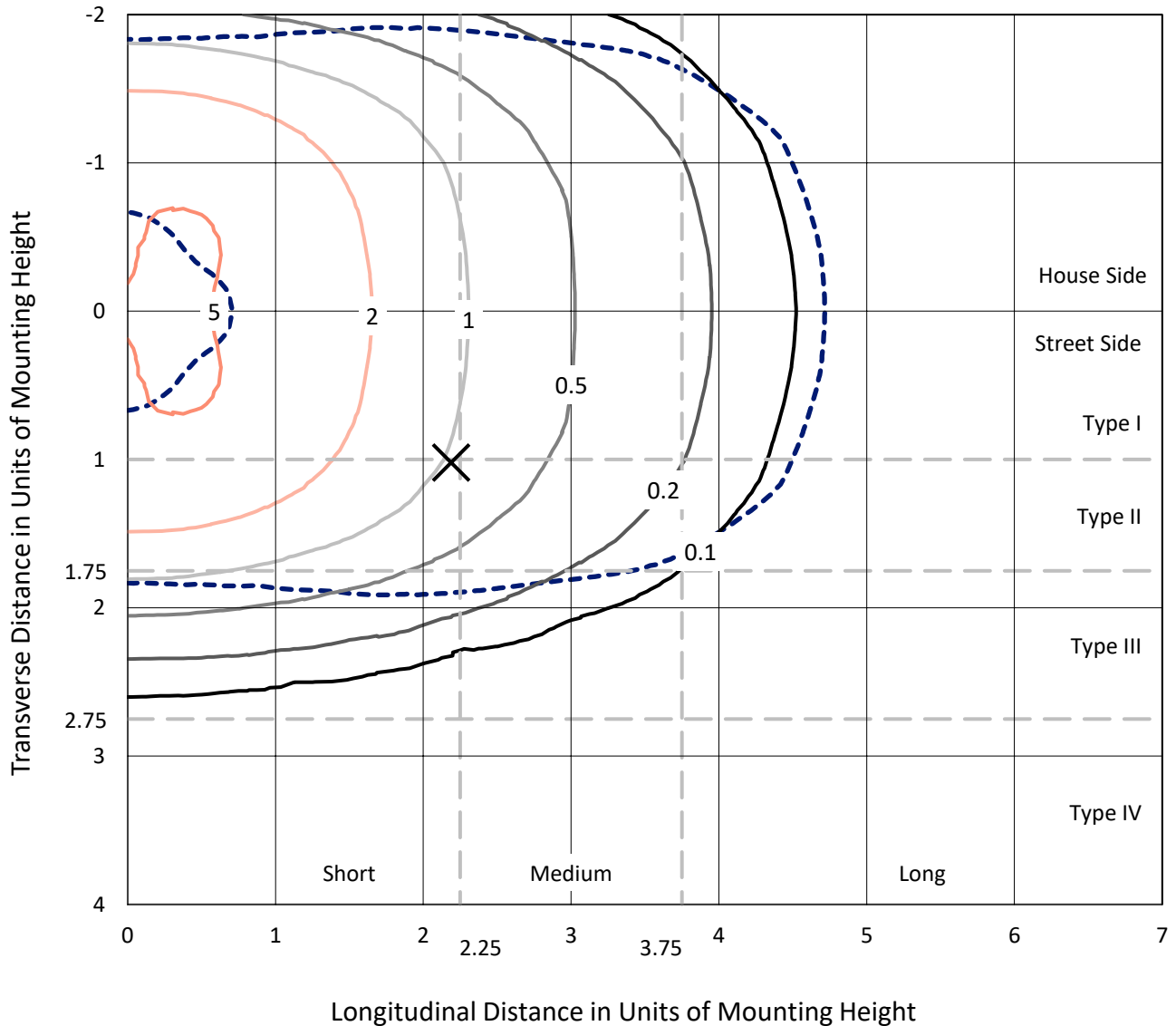
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

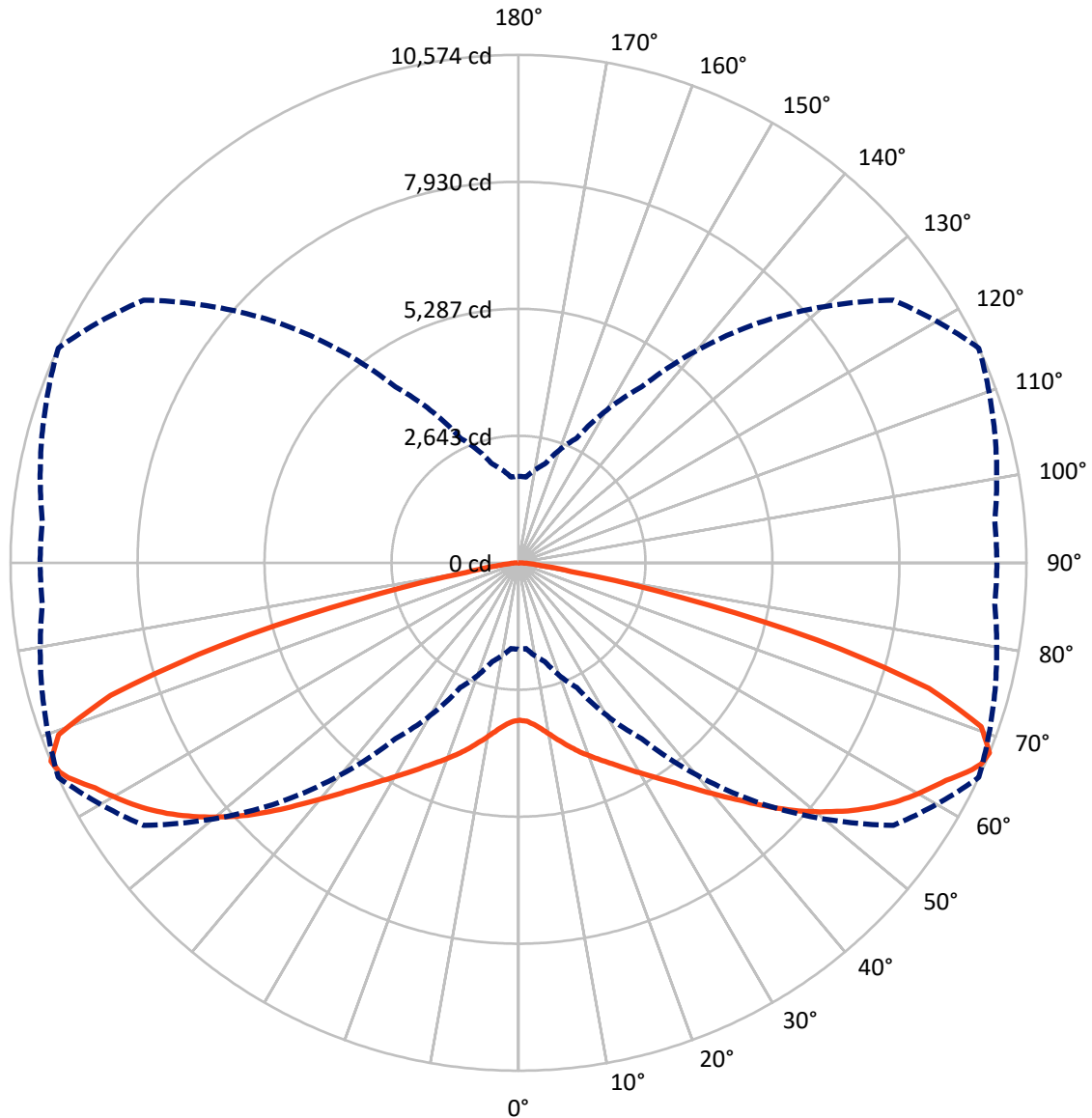
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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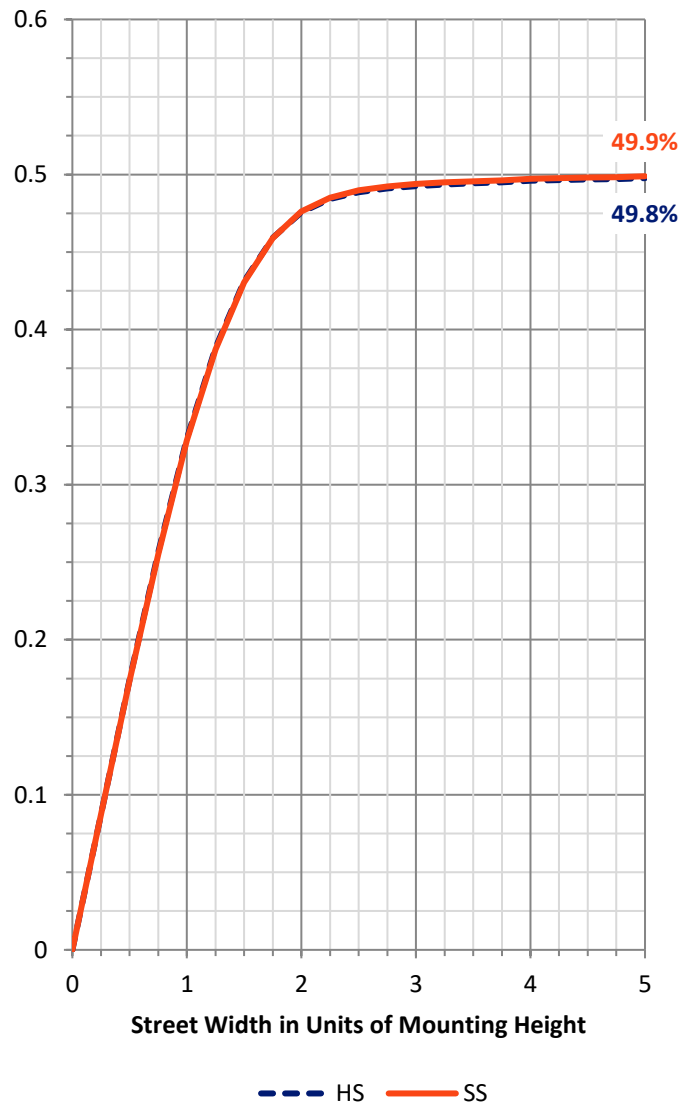
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15648.3	0.0	15648.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15648.3	0.0	15648.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	31296.5	0.0	31296.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	1.0
10°-20°	1082.1	3.5
20°-30°	2116.6	6.8
30°-40°	3600.1	11.5
40°-50°	5697.8	18.2
50°-60°	7555.2	24.1
60°-70°	7126.9	22.8
70°-80°	3523.2	11.3
80°-90°	271.5	0.9
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°	31296.5	100.0
0°-180°	31296.5	100.0

Coefficient of Utilization

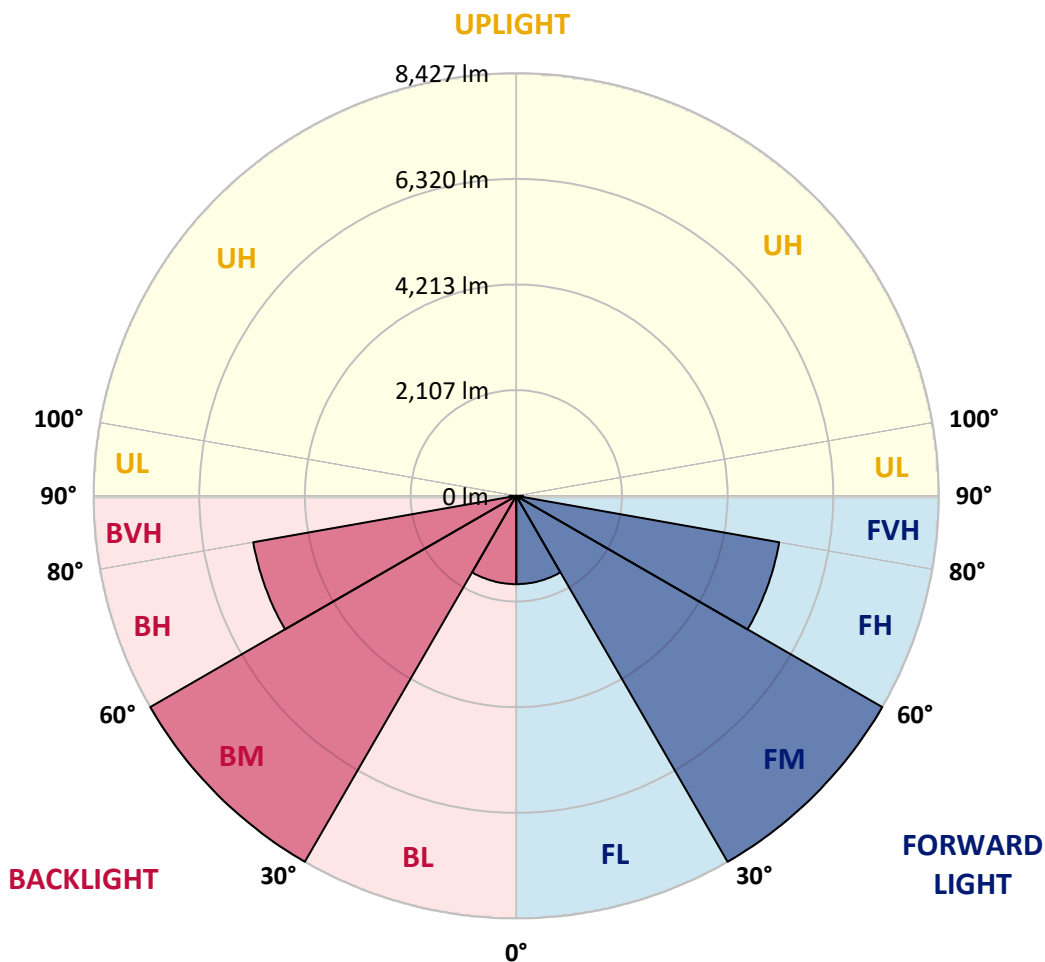


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1761.0	5.6			
FM	(30°-60°)	8426.5	26.9			
FH	(60°-80°)	5325.0	17.0			G3/7500
FVH	(80°-90°)	135.8	0.4			G2/225
BL	(0°-30°)	1761.0	5.6	B3/2500		
BM	(30°-60°)	8426.5	26.9	B4/8500		
BH	(60°-80°)	5325.0	17.0	B5		G5
BVH	(80°-90°)	135.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3278.0	3278.0	3278.0	3278.0	3278.0	3278.0	3278.0	3278.0	3278.0	3278.0	3278.0
2.5°	3261.3	3264.6	3268.0	3273.0	3279.7	3289.8	3296.5	3301.5	3314.9	3316.6	3314.9
5°	3249.5	3252.9	3261.3	3276.4	3298.2	3328.3	3351.8	3380.3	3402.1	3417.2	3413.9
7.5°	3247.9	3254.5	3268.0	3299.8	3341.8	3393.8	3447.4	3496.0	3537.9	3571.5	3566.4
10°	3274.7	3283.0	3304.9	3351.8	3417.2	3492.6	3568.1	3640.2	3700.5	3744.1	3759.3
12.5°	3319.9	3326.7	3366.9	3437.3	3531.3	3625.1	3710.6	3799.5	3883.4	3957.1	3957.1
15°	3398.8	3410.5	3460.8	3563.0	3678.8	3787.8	3875.0	3968.9	4059.4	4143.2	4168.4
17.5°	3507.8	3524.5	3600.0	3730.8	3878.3	3978.9	4061.1	4138.2	4217.0	4297.5	4309.2
20°	3657.0	3673.8	3774.4	3932.0	4106.4	4227.1	4282.4	4300.9	4339.4	4416.5	4426.6
22.5°	3859.9	3876.6	3989.0	4166.7	4361.2	4492.0	4515.5	4471.9	4461.8	4522.1	4528.9
25°	4089.6	4104.6	4233.8	4424.9	4626.1	4768.6	4762.0	4654.6	4594.3	4631.1	4641.2
27.5°	4347.8	4369.6	4500.4	4698.2	4916.2	5042.0	5021.8	4865.9	4736.8	4730.1	4733.5
30°	4678.1	4701.6	4825.6	5015.1	5229.7	5345.5	5303.6	5094.0	4894.4	4827.4	4827.4
32.5°	5026.9	5085.6	5211.3	5409.2	5576.8	5660.7	5597.0	5345.5	5080.5	4986.6	4981.6
35°	5481.3	5513.1	5637.2	5830.1	5955.8	6021.2	5898.8	5628.8	5323.7	5213.0	5197.9
37.5°	5925.6	5952.4	6096.7	6281.1	6433.7	6430.3	6264.3	5965.8	5625.5	5501.4	5491.3
40°	6380.0	6408.5	6572.8	6742.2	6894.8	6881.3	6680.2	6346.4	5984.3	5845.1	5872.0
42.5°	6774.0	6805.9	6992.0	7233.4	7370.9	7367.6	7134.5	6758.9	6381.7	6257.6	6281.1
45°	7132.9	7161.4	7377.7	7654.3	7855.5	7880.7	7625.8	7228.4	6841.1	6681.8	6688.5
47.5°	7386.0	7439.7	7666.0	7983.0	8256.3	8345.1	8095.3	7706.3	7260.3	7094.3	7104.4
50°	7578.9	7612.4	7858.9	8219.4	8564.8	8749.2	8548.0	8149.0	7679.5	7503.4	7526.9
52.5°	7602.4	7642.6	7910.9	8326.7	8769.4	9049.4	8950.5	8581.6	8107.0	7926.0	7976.3
55°	7411.2	7434.7	7754.9	8259.6	8849.9	9272.4	9297.6	8984.0	8514.5	8377.0	8410.5
57.5°	6866.3	6926.7	7332.4	7946.1	8739.2	9391.5	9557.5	9349.5	8927.0	8791.1	8844.8
60°	5972.6	6032.9	6440.4	7218.4	8321.6	9336.1	9772.1	9673.1	9300.9	9191.9	9220.4
62.5°	4679.8	4674.7	5179.5	6133.6	7491.7	9064.5	9931.3	9985.0	9669.8	9532.3	9575.9
65°	3033.3	3048.3	3536.3	4564.1	6239.2	8373.6	9966.6	10382.4	10032.0	9824.1	9855.9
66°	2439.7	2484.9	2899.1	3846.5	5600.3	7920.9	9860.9	10499.8	10142.6	9891.1	9906.2
67.5°	1800.8	1792.4	2132.8	2863.9	4471.9	7060.8	9530.6	10573.6	10268.3	9951.5	9958.2
70°	1027.8	1026.2	1146.9	1572.8	2629.2	4971.6	8033.3	10219.7	10523.2	10169.4	10151.0
72.5°	751.2	746.1	763.0	868.6	1282.7	2510.1	5541.6	8932.0	10392.4	10134.2	10082.2
75°	630.5	627.1	623.7	637.1	719.3	1136.8	2941.0	6425.3	9017.5	9512.2	9458.5
77.5°	514.7	514.7	516.5	513.1	516.5	598.6	1219.0	3444.0	5491.3	6130.2	6279.4
80°	402.4	400.7	429.2	417.5	390.7	384.0	539.9	1108.3	1822.6	1812.6	1495.7
82.5°	296.8	276.6	327.0	318.6	288.4	244.8	315.2	472.9	608.6	395.7	293.5
85°	187.8	186.1	231.4	211.3	176.1	115.7	150.9	202.9	251.5	152.6	124.1
87.5°	33.5	31.9	73.8	53.6	53.6	33.5	41.9	55.4	82.1	57.0	41.9
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)