

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: P647377

Luminaire Tested: **GALN-SA4D-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20996.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 245
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

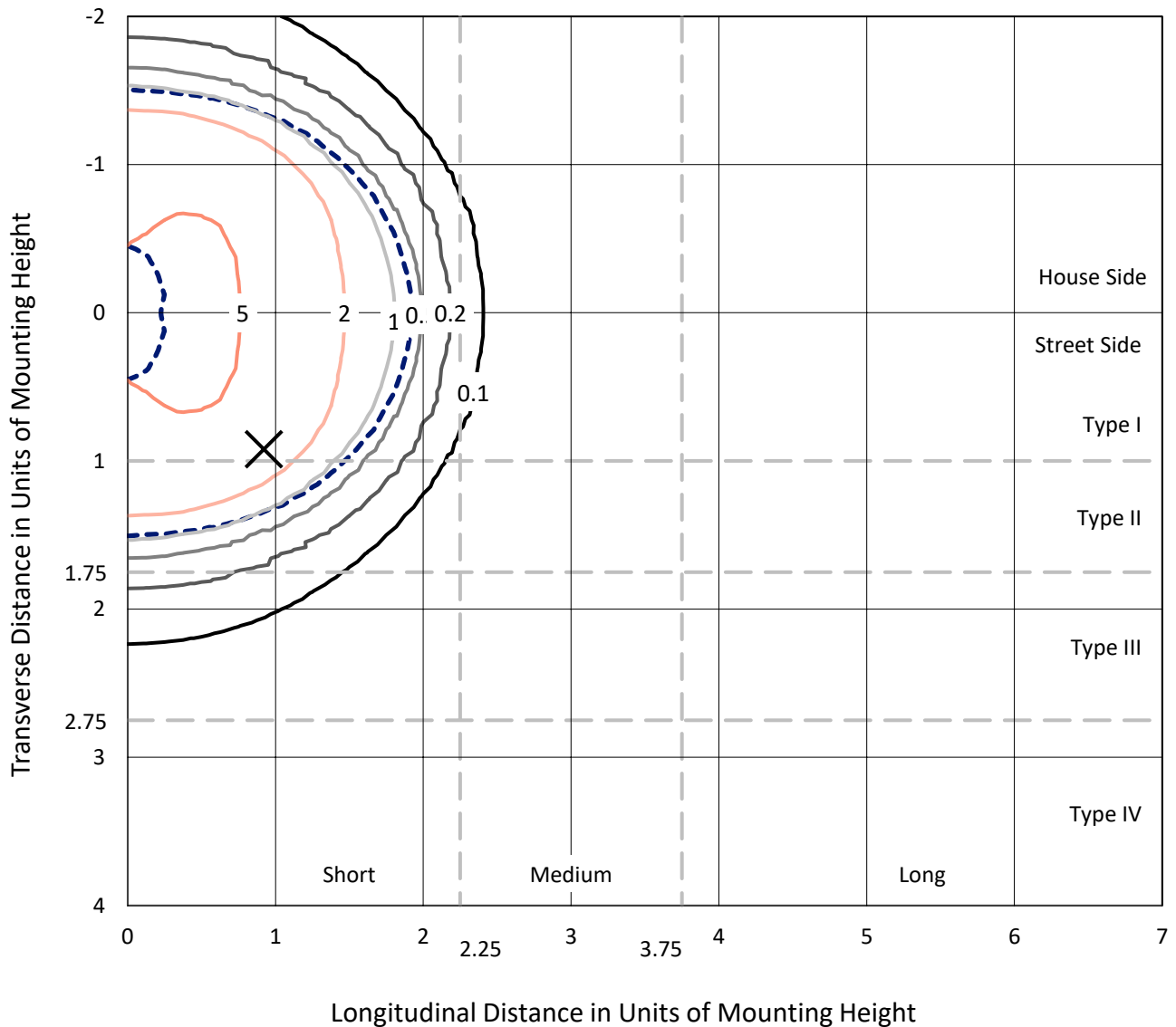




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Iso-Footcandle Lines of Horizontal Illumination

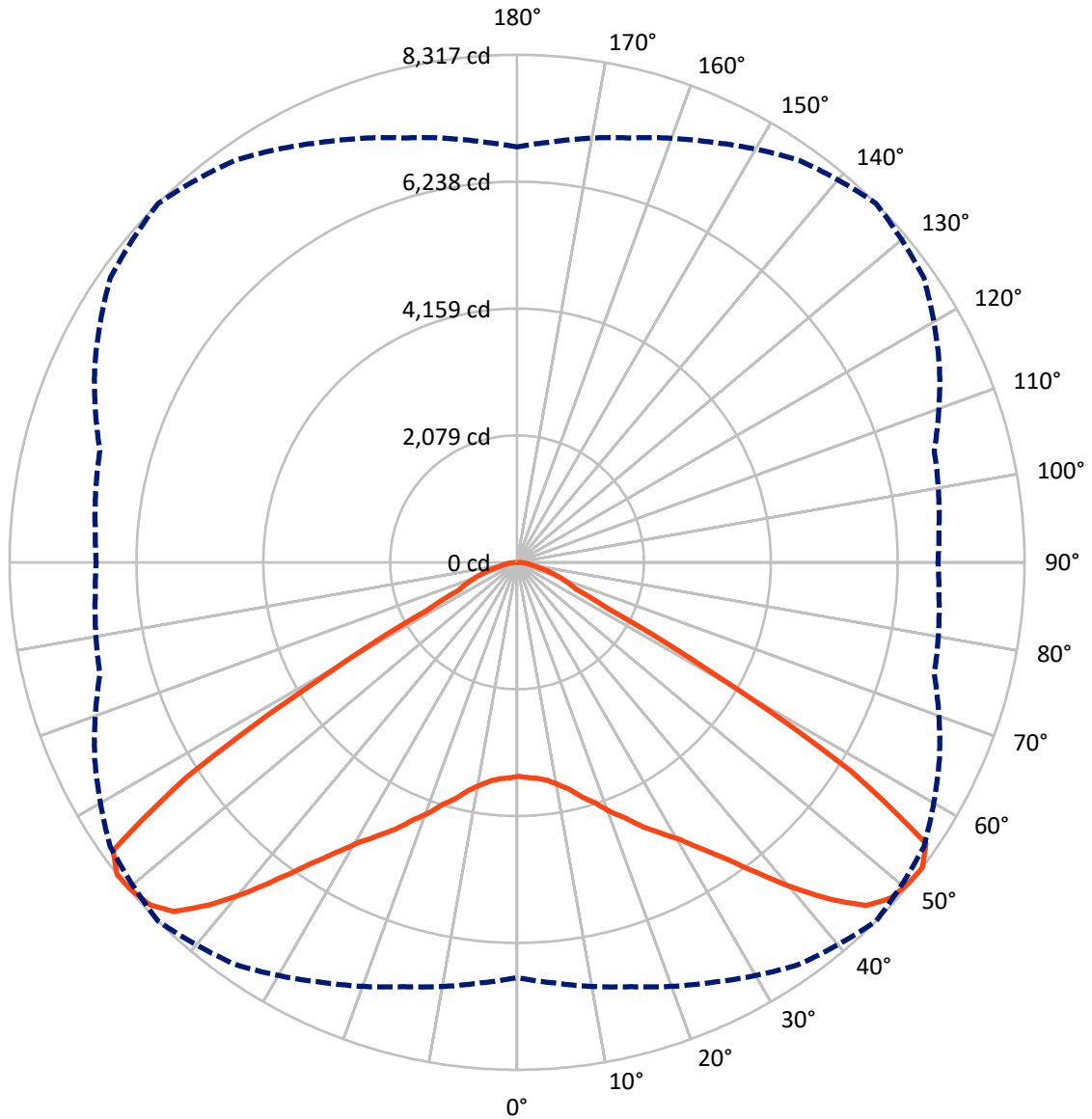
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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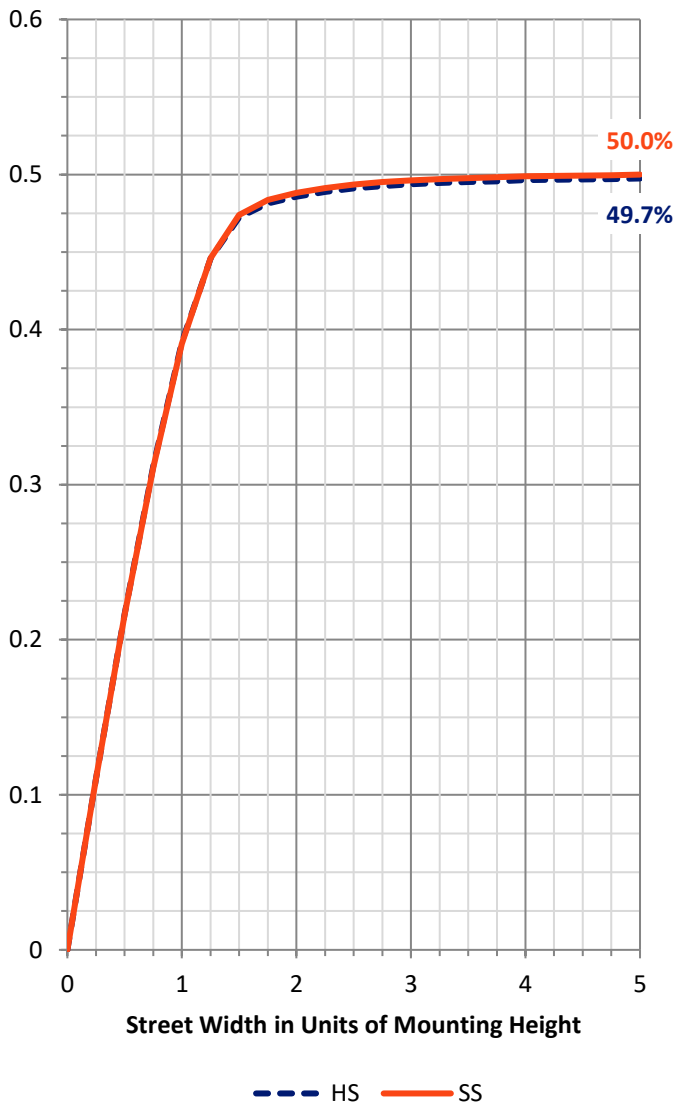
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10498.1	0.0	10498.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10498.1	0.0	10498.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20996.2	0.0	20996.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.6
10°-20°	1133.1	5.4
20°-30°	2157.2	10.3
30°-40°	3704.1	17.6
40°-50°	5693.3	27.1
50°-60°	5781.4	27.5
60°-70°	1611.2	7.7
70°-80°	475.3	2.3
80°-90°	95.7	0.5
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°	20996.2	100.0
0°-180°	20996.2	100.0

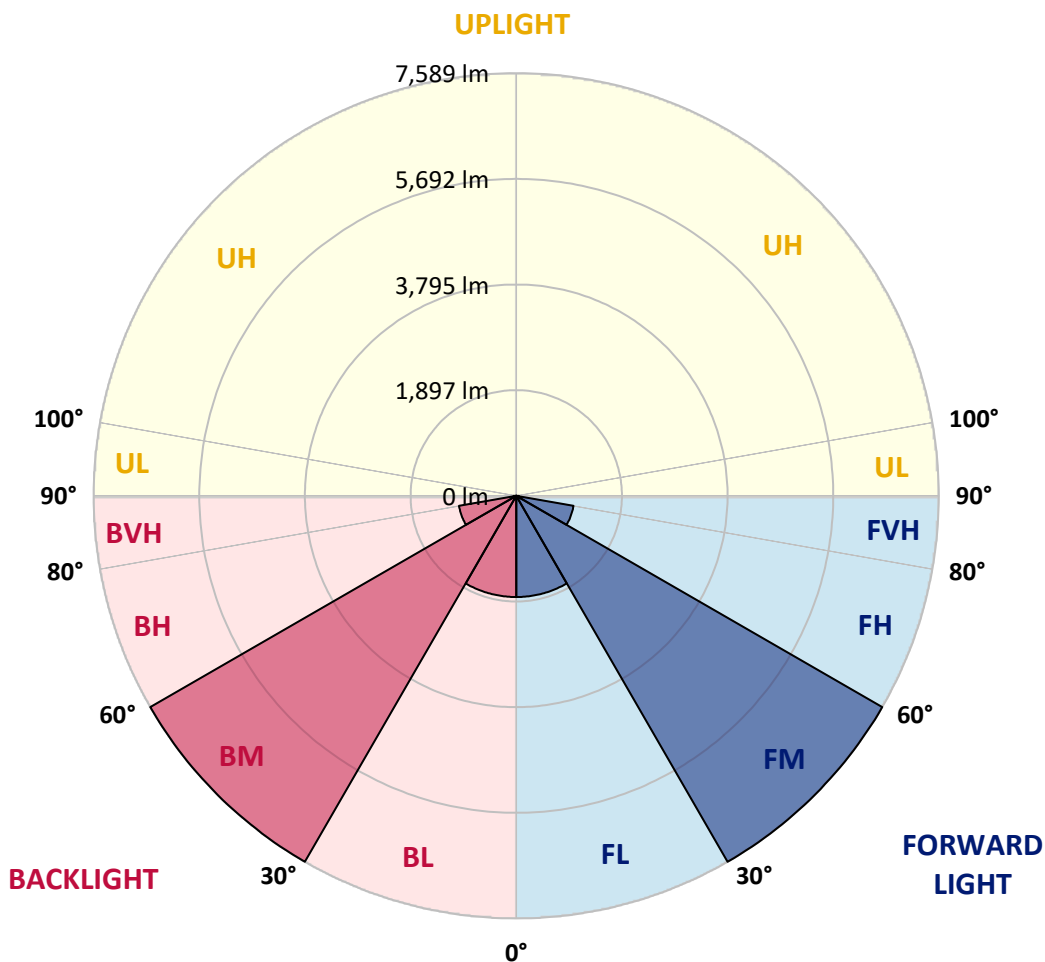


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.6	8.7			
FM (30°-60°)	7589.4	36.1			
FH (60°-80°)	1043.3	5.0			G1/1800
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	1817.6	8.7	B3/2500		
BM (30°-60°)	7589.4	36.1	B4/8500		
BH (60°-80°)	1043.3	5.0	B3/2500		G1/1800
BVH (80°-90°)	47.9	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8
2.5°	3517.6	3481.1	3494.1	3502.0	3535.9	3533.2	3525.4	3535.9	3546.3	3548.9	3543.6
5°	3515.0	3489.0	3499.4	3507.2	3541.0	3559.3	3554.1	3598.4	3629.7	3621.8	3660.9
7.5°	3494.1	3509.8	3496.7	3535.9	3564.5	3608.8	3655.7	3697.4	3736.5	3780.8	3788.5
10°	3541.0	3541.0	3564.5	3595.8	3671.3	3705.2	3773.0	3832.9	3908.4	3960.6	3939.7
12.5°	3590.5	3598.4	3598.4	3679.2	3741.7	3817.3	3879.8	3960.6	4067.4	4129.9	4161.2
15°	3640.1	3645.3	3671.3	3780.8	3874.6	3994.4	4051.8	4124.7	4184.7	4301.9	4304.5
17.5°	3684.3	3713.0	3791.2	3913.7	4030.9	4145.6	4236.7	4312.3	4364.4	4411.3	4400.9
20°	3851.1	3871.9	3952.7	4075.2	4249.8	4361.9	4393.1	4406.1	4440.0	4533.8	4505.1
22.5°	4012.6	4020.5	4096.0	4283.6	4406.1	4554.6	4588.5	4580.7	4593.7	4617.2	4658.8
25°	4179.4	4192.5	4296.7	4455.7	4627.6	4804.8	4833.5	4773.5	4755.2	4781.3	4784.0
27.5°	4393.1	4395.7	4528.6	4666.7	4862.1	5028.9	5073.1	5026.2	4940.3	4961.1	4995.0
30°	4664.1	4645.9	4778.7	4976.7	5182.6	5276.4	5352.0	5328.5	5234.7	5216.5	5187.8
32.5°	4976.7	4982.0	5101.8	5318.1	5453.6	5609.9	5690.7	5651.6	5591.7	5560.4	5578.6
35°	5417.1	5440.5	5521.3	5701.1	5920.0	5998.2	6125.8	6042.5	5886.1	5925.2	5959.1
37.5°	5779.3	5847.1	5998.2	6211.9	6342.1	6485.4	6532.3	6420.3	6305.7	6258.8	6370.8
40°	6334.3	6313.4	6480.2	6693.9	6886.6	7030.0	6970.0	6858.0	6574.0	6576.6	6607.9
42.5°	6811.1	6821.6	6949.2	7204.5	7467.7	7556.3	7366.2	7092.5	6777.3	6743.4	6811.1
45°	7212.4	7254.1	7327.0	7668.4	7926.3	8022.7	7671.0	7347.9	6925.8	6785.1	6897.1
47.5°	7355.7	7423.5	7582.4	7895.1	8150.4	8228.5	7947.1	7483.4	7063.8	6834.6	6894.5
50°	7376.6	7353.1	7613.7	7900.2	8124.3	8293.7	8046.2	7582.4	7030.0	6910.1	6891.9
52.5°	6805.9	6920.5	7199.4	7592.8	8046.2	8317.2	8134.7	7637.1	7076.9	6941.4	6897.1
55°	5508.3	5372.8	5880.9	6542.7	7376.6	8129.6	8103.5	7665.7	7105.6	6993.5	6933.5
57.5°	3074.6	3113.8	3400.3	4119.5	5195.6	6446.4	7204.5	7363.5	7092.5	7027.3	7058.7
60°	1422.7	1435.7	1558.2	1894.3	2561.3	3655.7	4653.7	5667.3	6133.6	6227.4	6227.4
62.5°	1060.5	1055.2	1086.6	1146.5	1287.2	1680.6	2243.5	3048.6	3689.6	4137.8	4255.0
65°	958.9	956.3	971.9	992.8	1003.2	1057.9	1183.0	1430.5	1639.0	1758.8	1737.9
67.5°	839.0	836.4	841.6	854.6	872.9	901.5	932.8	984.9	1057.9	1052.7	1039.7
70°	677.5	677.5	685.3	695.7	716.5	750.4	786.9	823.4	885.9	899.0	896.3
72.5°	500.3	492.4	508.1	528.9	549.8	591.5	630.5	664.5	708.7	721.8	716.5
75°	317.9	323.1	333.6	357.0	393.5	422.1	463.8	492.4	521.2	531.6	534.2
77.5°	177.2	182.4	200.6	229.3	265.8	297.1	333.6	357.0	375.2	377.8	380.5
80°	106.8	109.5	127.7	153.7	185.0	218.8	247.5	271.0	286.7	278.8	276.2
82.5°	65.1	67.7	83.4	106.8	132.9	158.9	190.2	211.0	226.7	216.3	205.9
85°	33.9	36.5	49.5	65.1	86.0	99.0	99.0	88.6	86.0	80.8	78.1
87.5°	10.4	10.4	13.0	15.7	13.0	15.7	18.2	20.8	20.8	23.4	20.8
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)