

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: P647528

Luminaire Tested: **GALN-SA7D-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25319.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

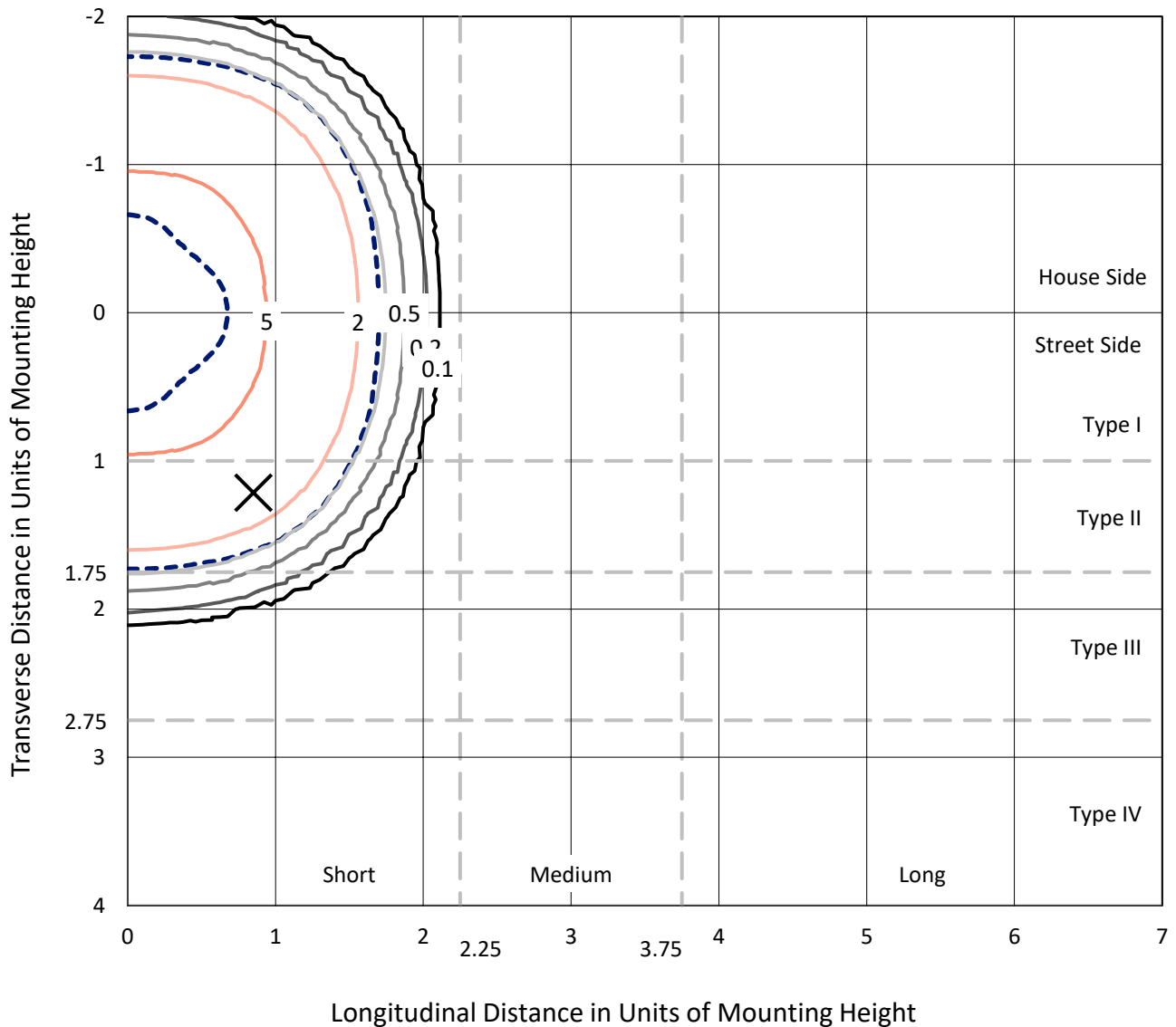
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

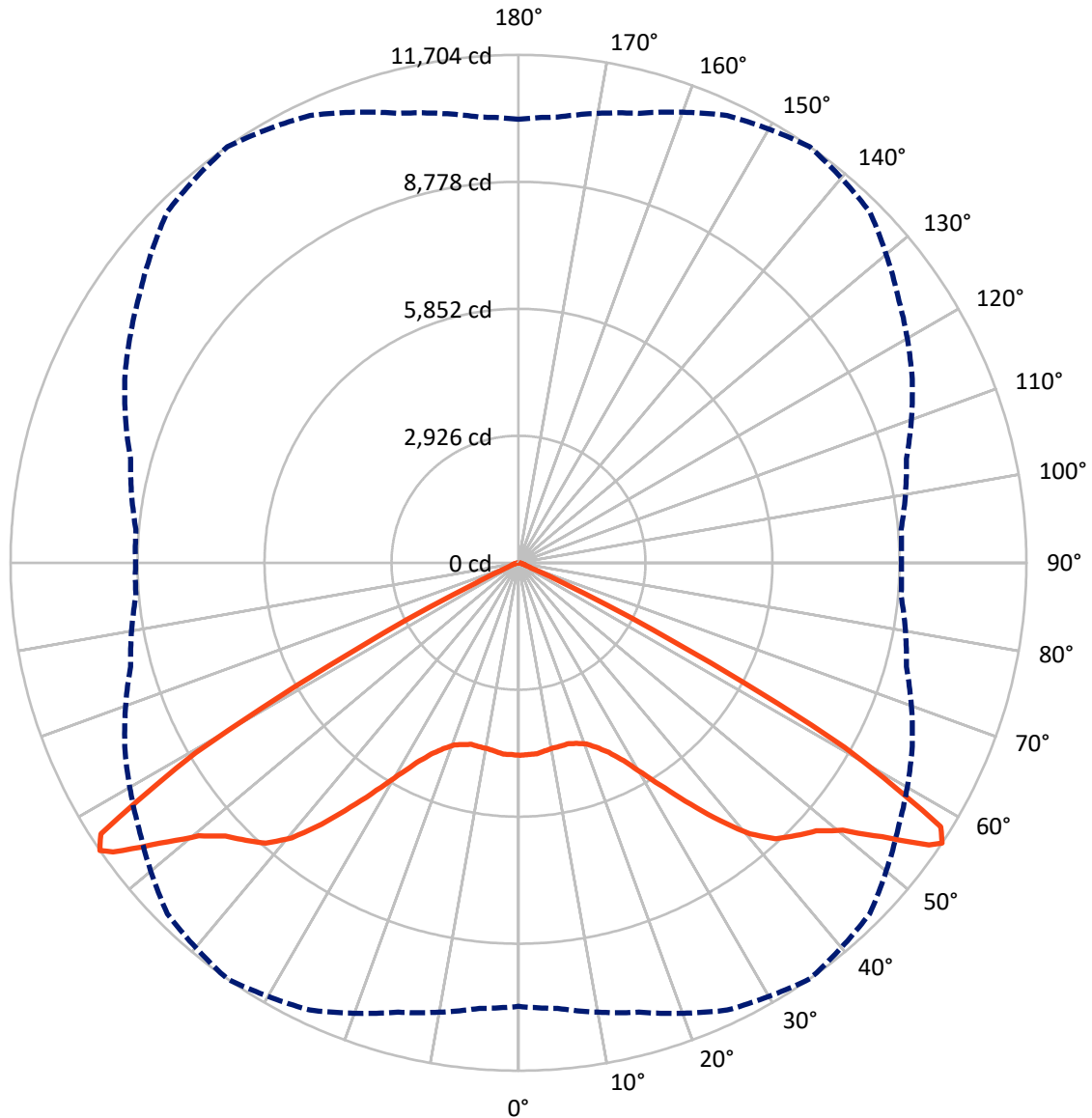
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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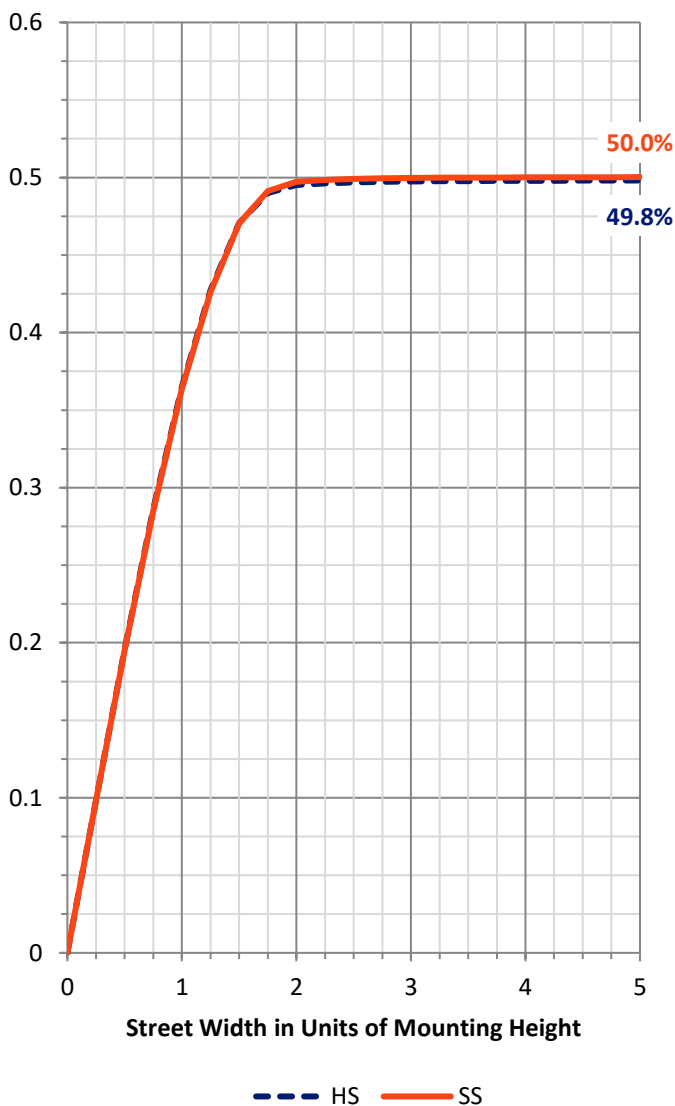
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12659.9	0.0	12659.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12659.9	0.0	12659.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	25319.9	0.0	25319.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.6
10°-20°	1217.4	4.8
20°-30°	2204.5	8.7
30°-40°	4087.9	16.1
40°-50°	6709.9	26.5
50°-60°	8644.4	34.1
60°-70°	1905.1	7.5
70°-80°	110.5	0.4
80°-90°	23.3	0.1
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°	25319.9	100.0
0°-180°	25319.9	100.0

Coefficient of Utilization



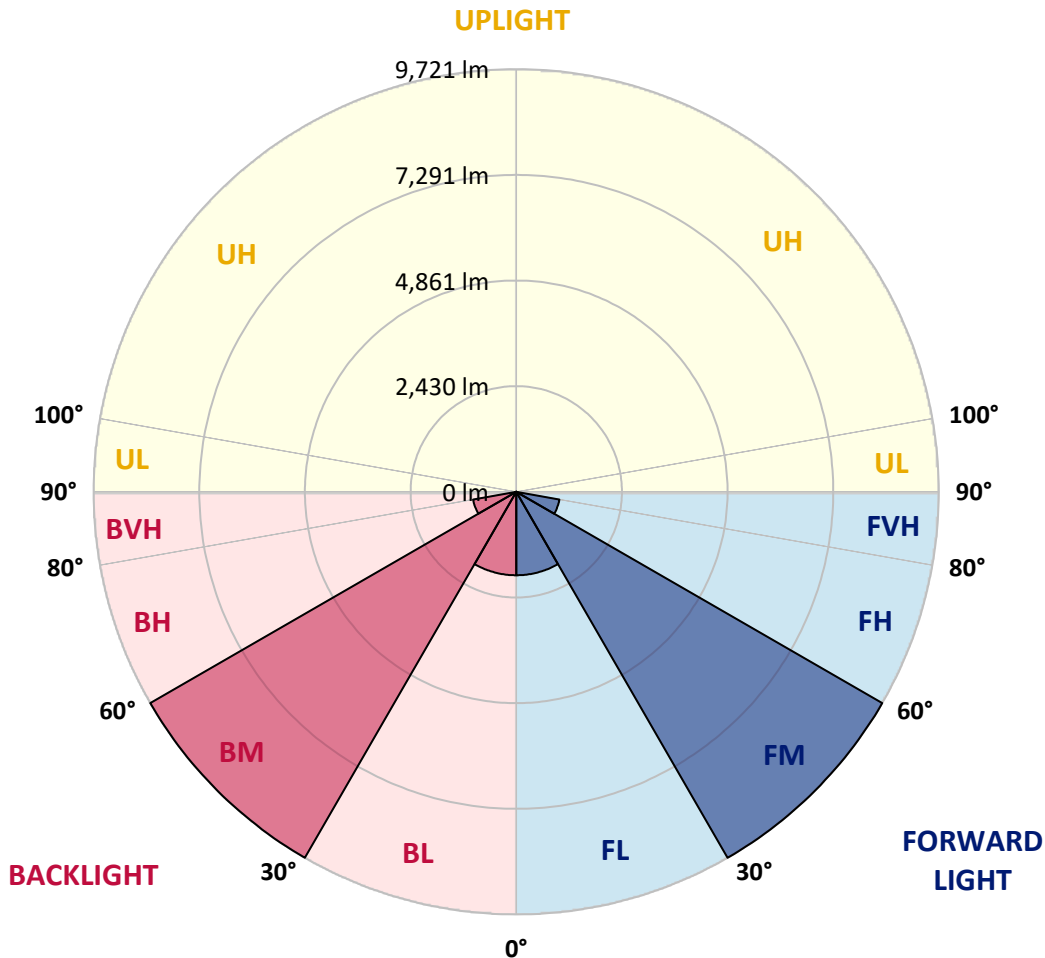
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.4	7.6			
FM (30°-60°)	9721.1	38.4			
FH (60°-80°)	1007.8	4.0			G1/1800
FVH (80°-90°)	11.6	0.0			G1/100
BL (0°-30°)	1919.4	7.6	B3/2500		
BM (30°-60°)	9721.1	38.4	B5		
BH (60°-80°)	1007.8	4.0	B3/2500		G1/1800
BVH (80°-90°)	11.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6
2.5°	4445.8	4445.8	4450.3	4455.0	4422.9	4409.1	4413.6	4404.5	4399.9	4413.6	4413.6
5°	4432.0	4432.0	4418.2	4422.9	4422.9	4381.5	4381.5	4390.7	4390.7	4363.2	4354.0
7.5°	4395.3	4386.1	4367.7	4390.7	4377.0	4377.0	4344.8	4321.9	4312.7	4331.1	4312.7
10°	4317.3	4321.9	4340.2	4349.4	4340.2	4367.7	4312.7	4280.6	4248.5	4234.7	4234.7
12.5°	4280.6	4308.1	4280.6	4303.5	4335.6	4312.7	4280.6	4257.6	4211.8	4193.4	4193.4
15°	4276.0	4294.4	4303.5	4335.6	4321.9	4331.1	4266.8	4239.3	4170.5	4138.4	4124.6
17.5°	4271.4	4294.4	4308.1	4367.7	4377.0	4381.5	4331.1	4248.5	4188.8	4156.7	4124.6
20°	4321.9	4331.1	4358.6	4418.2	4455.0	4519.2	4427.4	4340.2	4211.8	4175.0	4161.3
22.5°	4386.1	4432.0	4459.5	4523.8	4620.1	4675.1	4555.9	4445.8	4312.7	4266.8	4211.8
25°	4592.6	4583.4	4629.3	4762.4	4840.3	4881.6	4785.3	4624.7	4450.3	4395.3	4404.5
27.5°	4849.5	4858.7	4899.9	5046.8	5161.5	5225.7	5111.0	4899.9	4730.2	4638.5	4629.3
30°	5184.4	5175.2	5221.1	5418.4	5624.8	5721.2	5519.4	5271.6	5106.4	4987.2	5014.6
32.5°	5537.7	5542.3	5670.7	5849.7	6184.6	6372.7	6047.0	5744.2	5496.4	5413.8	5372.6
35°	6060.7	6083.7	6184.6	6459.9	6831.5	7074.7	6716.8	6354.4	6069.9	5918.5	5936.9
37.5°	6707.6	6684.7	6854.5	7152.7	7542.6	7721.6	7418.8	7005.9	6716.8	6615.9	6680.1
40°	7395.8	7418.8	7505.9	7776.7	8212.5	8331.8	7882.1	7657.3	7405.0	7354.6	7432.5
42.5°	8084.0	8070.3	8134.5	8377.6	8694.3	8611.7	8345.5	8212.5	8033.6	7932.7	8038.1
45°	8588.7	8565.8	8685.0	8850.2	8965.0	8808.9	8689.7	8643.8	8552.0	8441.9	8538.2
47.5°	9079.7	9061.3	9176.0	9221.9	9231.0	9024.5	9047.5	9130.1	8900.7	8671.3	8781.4
50°	9497.2	9465.1	9607.3	9708.2	9685.2	9354.9	9437.5	9354.9	8997.1	8726.4	8685.0
52.5°	10194.5	10208.3	10359.7	10543.2	10488.1	10212.9	10093.6	9717.3	9258.6	9015.4	8873.2
55°	10634.9	10566.1	10827.6	11410.3	11474.6	11190.1	10662.5	10107.4	9419.2	9120.9	9084.2
56°	10222.1	10309.2	10722.2	11373.6	11704.0	11442.4	10676.3	10011.0	9254.0	8850.2	8822.7
57.5°	9171.4	9125.5	9685.2	10575.4	11474.6	11364.5	10300.1	9322.8	8441.9	7987.7	7932.7
60°	5707.4	5840.5	6331.4	7432.5	8634.6	8689.7	7634.4	6794.8	5767.1	5363.4	5459.7
62.5°	2234.4	2119.7	2427.1	3248.3	4074.1	4257.6	3858.5	3207.0	2633.5	2234.4	2206.8
65°	518.4	504.6	568.9	784.6	1096.5	1270.9	1206.6	867.1	637.8	605.7	559.8
67.5°	293.6	293.6	279.8	279.8	307.4	325.7	311.9	307.4	321.2	334.9	330.3
70°	206.5	201.9	192.7	197.3	188.1	188.1	201.9	224.8	243.2	243.2	247.7
72.5°	123.9	123.9	123.9	137.7	137.7	137.7	151.4	169.8	174.4	169.8	165.1
75°	55.0	55.0	64.2	78.0	87.1	91.8	105.5	114.7	123.9	114.7	105.5
77.5°	13.8	13.8	22.9	32.1	41.3	50.5	68.8	82.6	87.1	82.6	68.8
80°	4.6	4.6	9.2	22.9	41.3	50.5	68.8	73.4	78.0	68.8	55.0
82.5°	4.6	4.6	9.2	22.9	32.1	41.3	55.0	64.2	68.8	59.7	55.0
85°	0.0	4.6	9.2	18.3	27.6	36.7	36.7	27.6	22.9	13.8	18.3
87.5°	0.0	0.0	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)