

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: P530535

Luminaire Tested: **GALN-SA5D-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530535
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-SA5D-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 21659 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

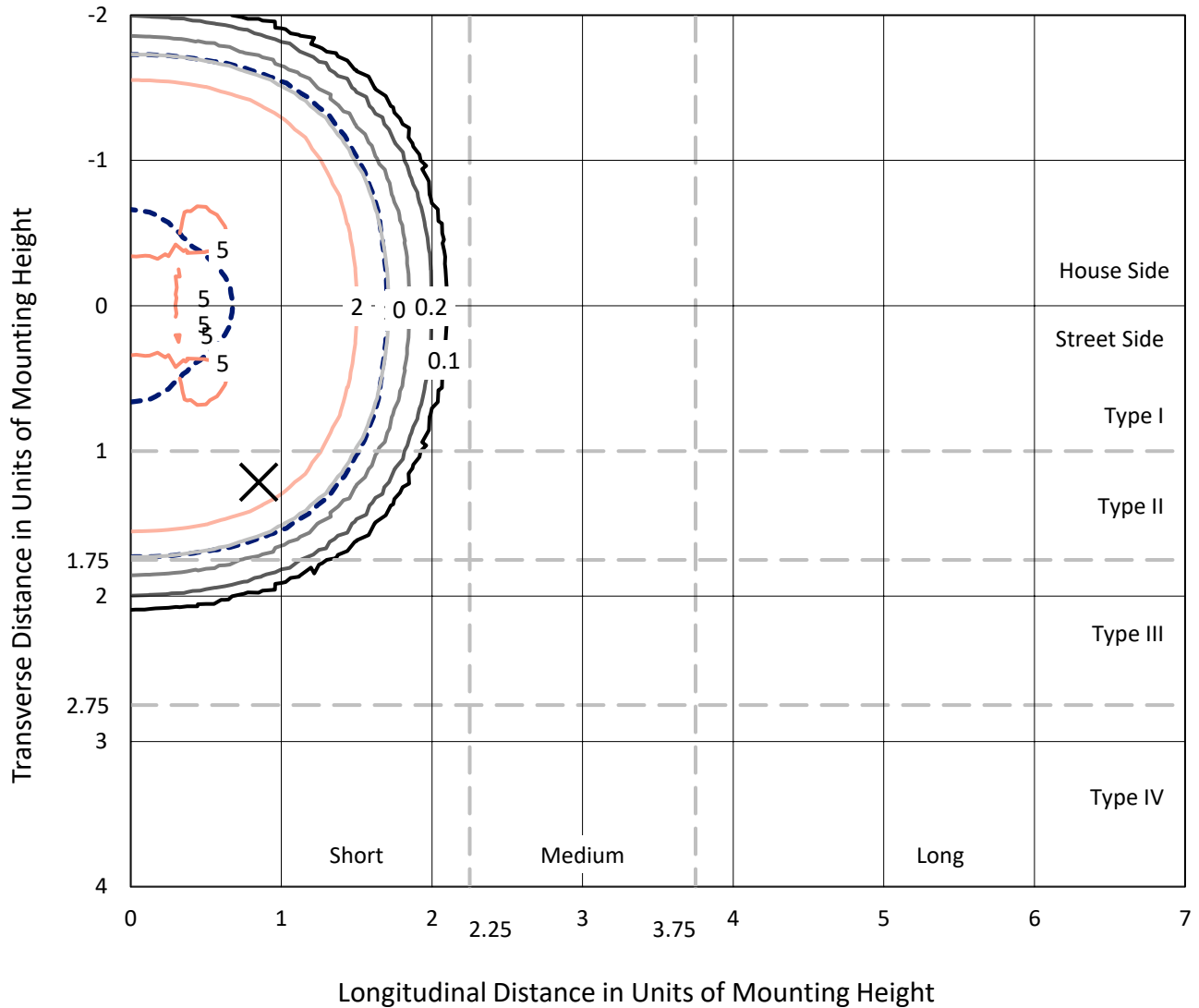
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

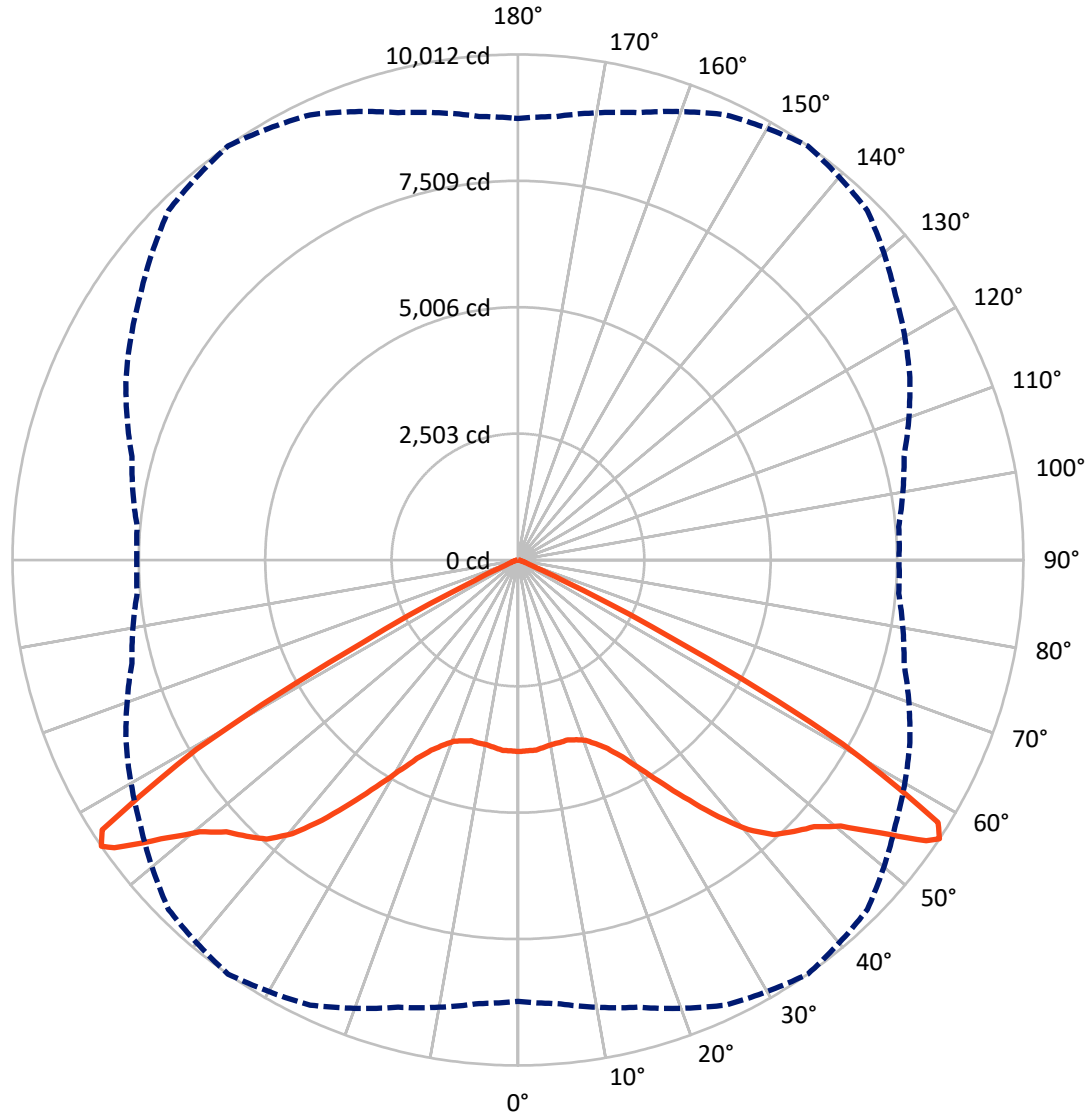
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	10829.5	0.0	10829.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10829.5	0.0	10829.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21659.0	0.0	21659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	1.6
10°-20°	1041.3	4.8
20°-30°	1885.7	8.7
30°-40°	3496.8	16.1
40°-50°	5739.8	26.5
50°-60°	7394.5	34.1
60°-70°	1629.7	7.5
70°-80°	94.6	0.4
80°-90°	19.9	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°	21659.0	100.0
0°-180°	21659.0	100.0

Coefficient of Utilization

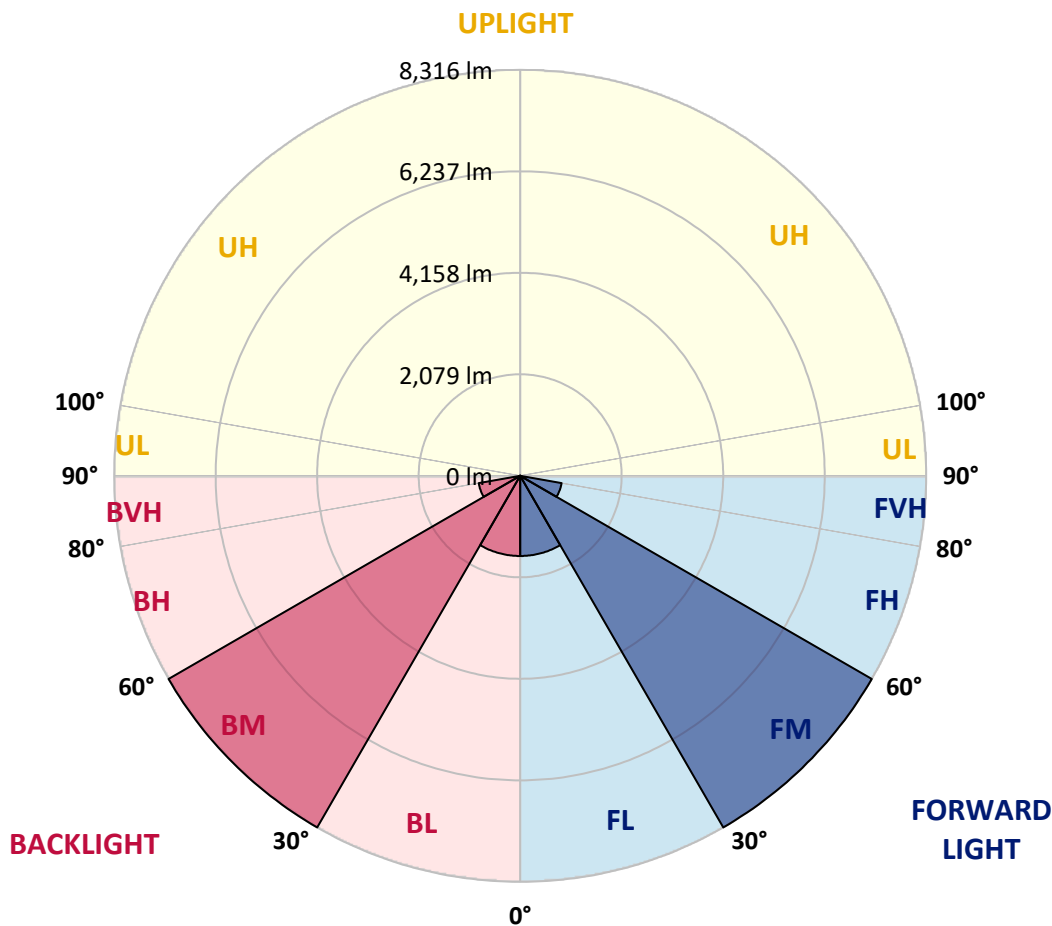


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.9	7.6			
FM (30°-60°)	8315.6	38.4			
FH (60°-80°)	862.1	4.0			G1/1800
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	1641.9	7.6	B3/2500		
BM (30°-60°)	8315.6	38.4	B4/8500		
BH (60°-80°)	862.1	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.9	0.0			G0/10
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°	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1
2.5°	3803.0	3803.0	3806.9	3810.8	3783.3	3771.6	3775.5	3767.7	3763.7	3775.5	3775.5
5°	3791.2	3791.2	3779.4	3783.3	3783.3	3748.0	3748.0	3755.9	3755.9	3732.3	3724.5
7.5°	3759.8	3752.0	3736.3	3755.9	3744.1	3744.1	3716.6	3697.0	3689.2	3704.9	3689.2
10°	3693.1	3697.0	3712.7	3720.6	3712.7	3736.3	3689.2	3661.7	3634.2	3622.4	3622.4
12.5°	3661.7	3685.2	3661.7	3681.3	3708.8	3689.2	3661.7	3642.1	3602.8	3587.1	3587.1
15°	3657.8	3673.5	3681.3	3708.8	3697.0	3704.9	3649.9	3626.4	3567.5	3540.0	3528.2
17.5°	3653.8	3673.5	3685.2	3736.3	3744.1	3748.0	3704.9	3634.2	3583.2	3555.7	3528.2
20°	3697.0	3704.9	3728.4	3779.4	3810.8	3865.8	3787.3	3712.7	3602.8	3571.4	3559.6
22.5°	3752.0	3791.2	3814.7	3869.7	3952.1	3999.2	3897.2	3803.0	3689.2	3649.9	3602.8
25°	3928.6	3920.7	3960.0	4073.8	4140.5	4175.8	4093.4	3956.0	3806.9	3759.8	3767.7
27.5°	4148.3	4156.2	4191.5	4317.1	4415.2	4470.2	4372.0	4191.5	4046.3	3967.8	3960.0
30°	4434.8	4427.0	4466.2	4635.0	4811.6	4894.0	4721.3	4509.4	4368.1	4266.1	4289.6
32.5°	4737.0	4741.0	4850.8	5003.9	5290.4	5451.3	5172.7	4913.6	4701.7	4631.1	4595.7
35°	5184.4	5204.1	5290.4	5525.9	5843.8	6051.8	5745.7	5435.6	5192.3	5062.8	5078.5
37.5°	5737.8	5718.2	5863.4	6118.5	6452.1	6605.2	6346.1	5992.9	5745.7	5659.3	5714.3
40°	6326.5	6346.1	6420.7	6652.3	7025.1	7127.1	6742.5	6550.2	6334.4	6291.2	6357.9
42.5°	6915.2	6903.4	6958.4	7166.4	7437.2	7366.5	7138.9	7025.1	6872.0	6785.7	6876.0
45°	7346.9	7327.3	7429.3	7570.6	7668.7	7535.3	7433.3	7394.0	7315.5	7221.3	7303.7
47.5°	7766.9	7751.2	7849.3	7888.5	7896.4	7719.8	7739.4	7810.0	7613.8	7417.6	7511.8
50°	8124.0	8096.5	8218.2	8304.5	8284.9	8002.3	8073.0	8002.3	7696.2	7464.7	7429.3
52.5°	8720.5	8732.3	8861.8	9018.8	8971.7	8736.2	8634.2	8312.4	7919.9	7711.9	7590.2
55°	9097.3	9038.4	9262.1	9760.6	9815.5	9572.2	9120.9	8646.0	8057.3	7802.2	7770.8
56°	8744.1	8818.7	9171.9	9729.2	10011.7	9788.0	9132.6	8563.6	7916.0	7570.6	7547.1
57.5°	7845.3	7806.1	8284.9	9046.3	9815.5	9721.3	8810.8	7974.9	7221.3	6832.8	6785.7
60°	4882.2	4996.1	5416.0	6357.9	7386.2	7433.3	6530.6	5812.4	4933.3	4587.9	4670.3
62.5°	1911.3	1813.2	2076.1	2778.6	3485.1	3642.1	3300.6	2743.3	2252.7	1911.3	1887.7
65°	443.5	431.7	486.7	671.1	938.0	1087.1	1032.2	741.8	545.5	518.1	478.8
67.5°	251.2	251.2	239.4	239.4	263.0	278.6	266.9	263.0	274.7	286.5	282.6
70°	176.6	172.7	164.8	168.8	160.9	160.9	172.7	192.3	208.0	208.0	211.9
72.5°	106.0	106.0	106.0	117.7	117.7	117.7	129.5	145.2	149.1	145.2	141.3
75°	47.1	47.1	54.9	66.7	74.6	78.5	90.3	98.1	106.0	98.1	90.3
77.5°	11.8	11.8	19.6	27.5	35.3	43.2	58.9	70.6	74.6	70.6	58.9
80°	3.9	3.9	7.8	19.6	35.3	43.2	58.9	62.8	66.7	58.9	47.1
82.5°	3.9	3.9	7.8	19.6	27.5	35.3	47.1	54.9	58.9	51.0	47.1
85°	0.0	3.9	7.8	15.7	23.5	31.4	31.4	23.5	19.6	11.8	15.7
87.5°	0.0	0.0	3.9	3.9	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)