

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: P456454

Luminaire Tested: **GALN-SA7D-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456454
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-SA7D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 47262 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

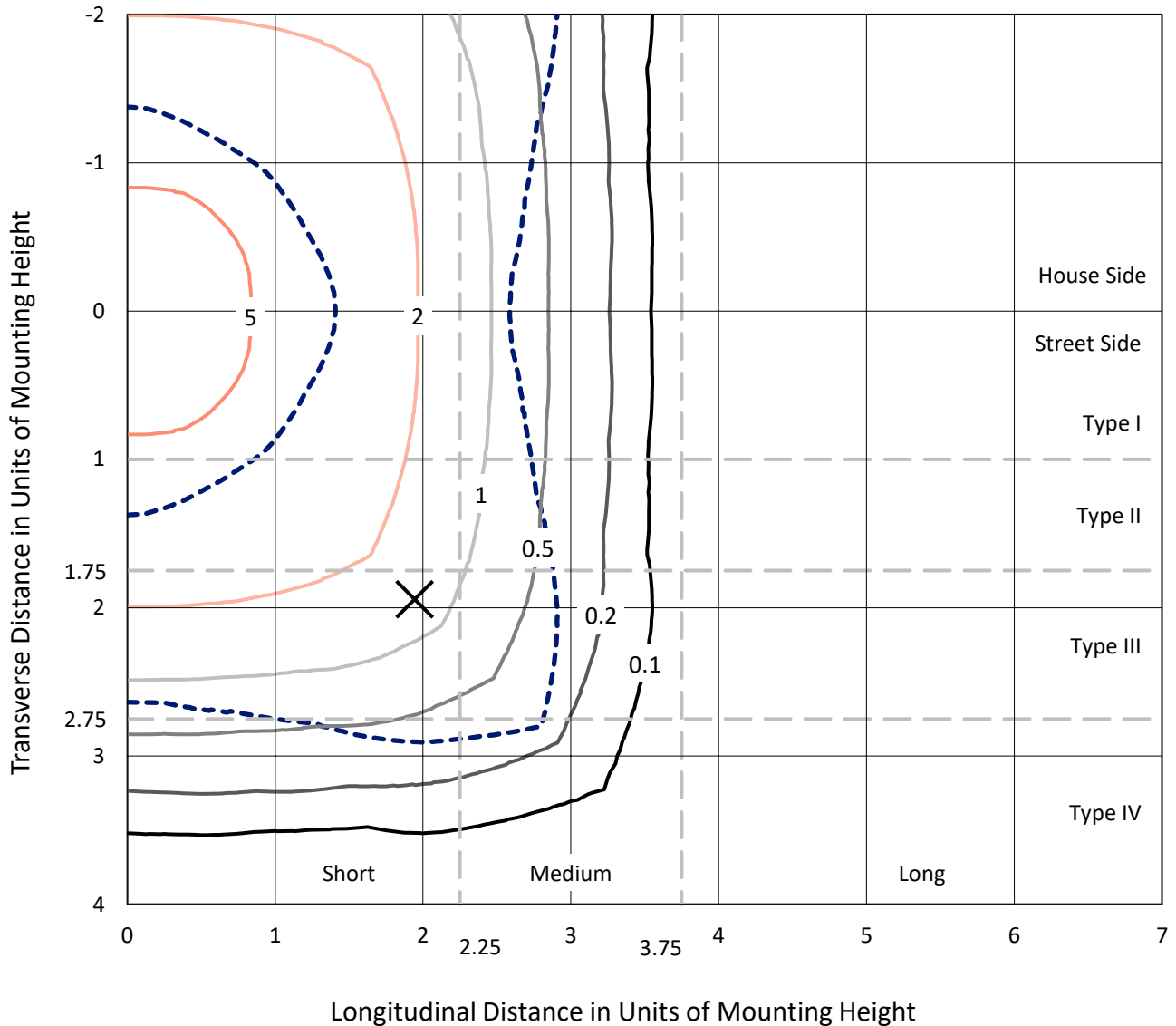
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

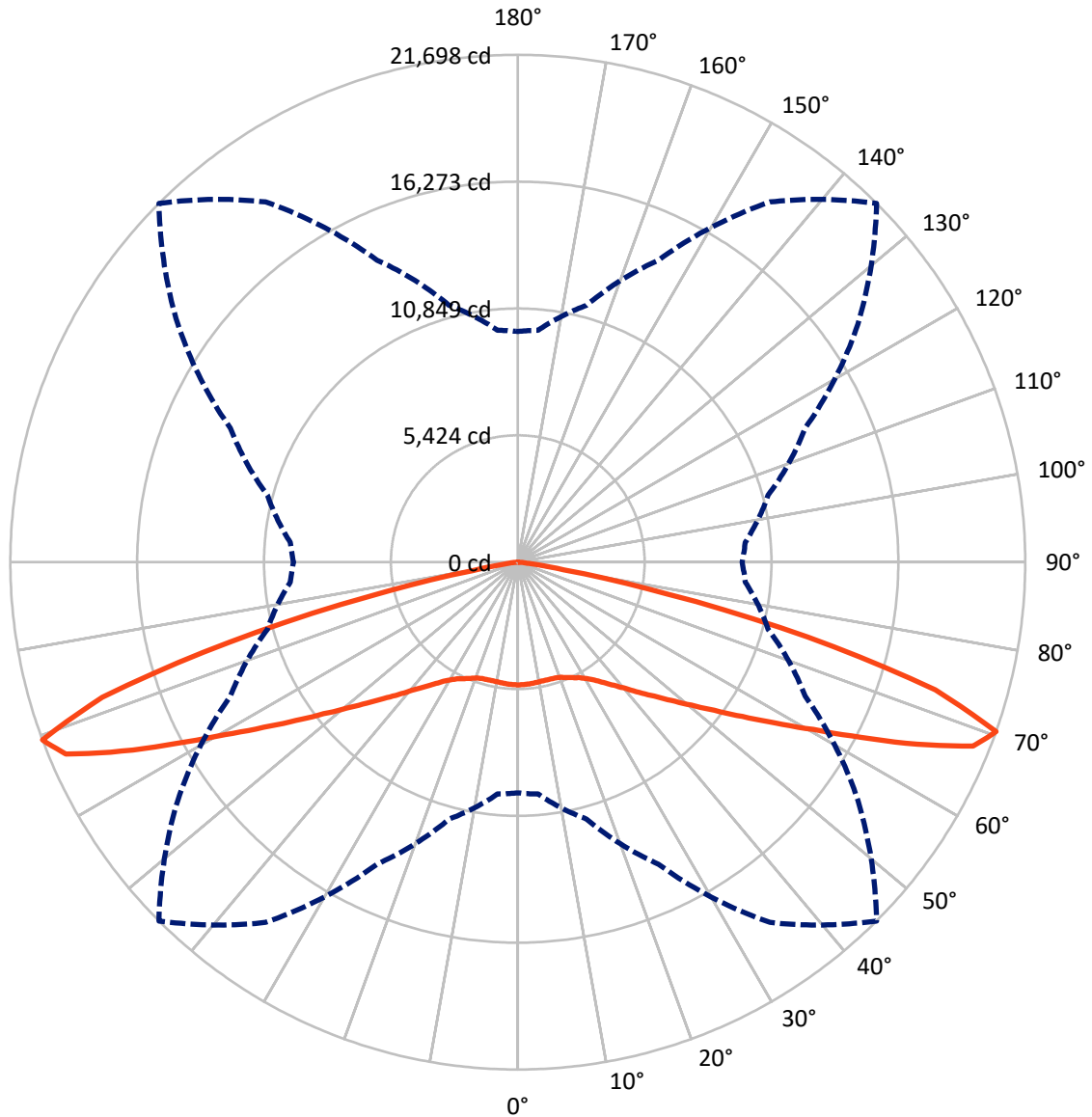
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	23631.0	0.0	23631.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23631.0	0.0	23631.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	47262.0	0.0	47262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	1.1
10°-20°	1460.4	3.1
20°-30°	2497.7	5.3
30°-40°	3964.5	8.4
40°-50°	6395.7	13.5
50°-60°	10406.0	22.0
60°-70°	15084.9	31.9
70°-80°	6691.1	14.2
80°-90°	263.9	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°	47262.0	100.0
0°-180°	47262.0	100.0

Coefficient of Utilization



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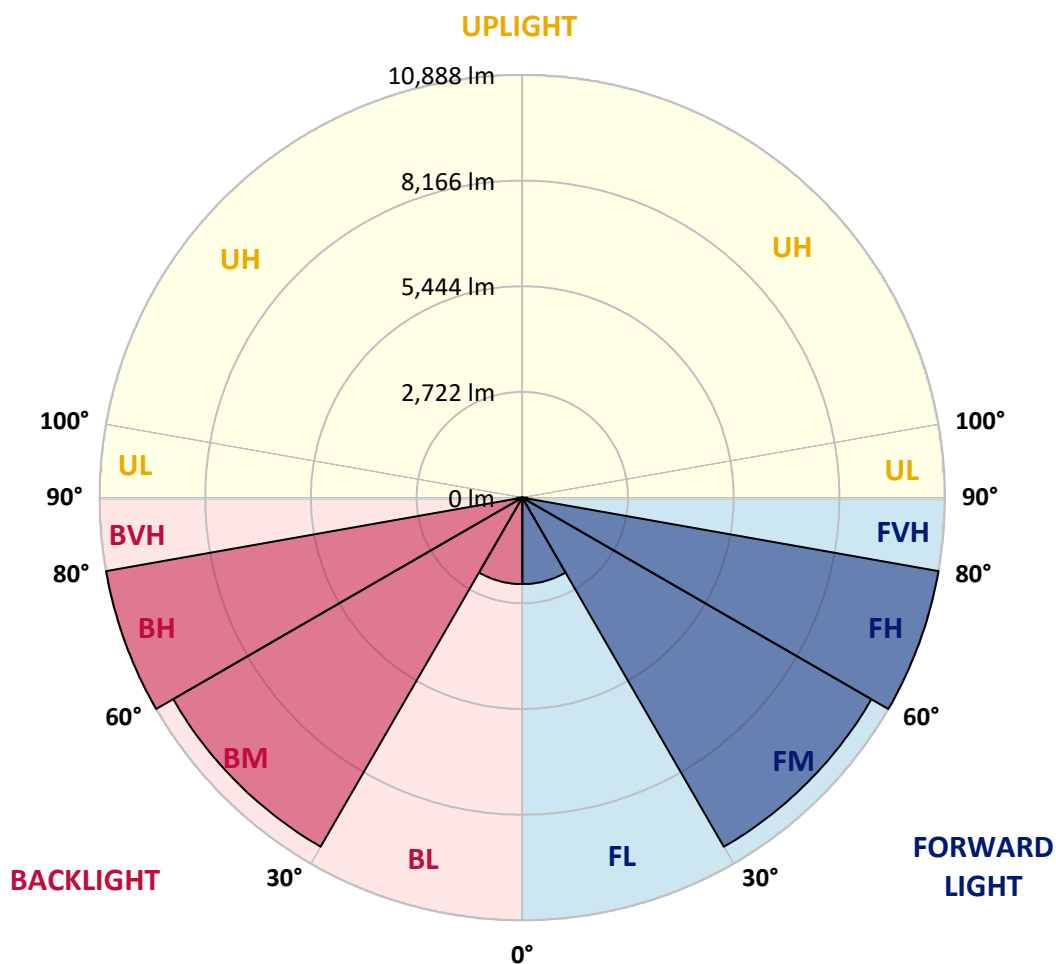
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2227.9	4.7			
FM (30°-60°)	10383.1	22.0			
FH (60°-80°)	10888.0	23.0			G4/12000
FVH (80°-90°)	132.0	0.3			G2/225
BL (0°-30°)	2227.9	4.7	B3/2500		
BM (30°-60°)	10383.1	22.0	B5		
BH (60°-80°)	10888.0	23.0	B5		G4/12000
BVH (80°-90°)	132.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5248.2	5248.2	5248.2	5248.2	5248.2	5248.2	5248.2	5248.2	5248.2	5248.2	5248.2
2.5°	5248.2	5253.2	5245.7	5240.7	5238.3	5238.3	5235.8	5238.3	5253.2	5255.7	5248.2
5°	5233.3	5238.3	5235.8	5230.8	5228.3	5228.3	5225.8	5223.3	5235.8	5240.7	5238.3
7.5°	5213.4	5215.8	5213.4	5210.9	5213.4	5210.9	5203.4	5198.4	5208.4	5208.4	5205.9
10°	5178.5	5183.5	5181.0	5183.5	5188.4	5188.4	5178.5	5168.5	5171.0	5166.0	5166.0
12.5°	5136.1	5143.6	5146.1	5156.1	5168.5	5183.5	5161.0	5138.6	5133.6	5131.2	5128.7
15°	5108.7	5116.2	5126.2	5136.1	5158.6	5190.9	5158.6	5123.7	5113.7	5103.8	5098.8
17.5°	5101.3	5111.2	5126.2	5141.1	5171.0	5203.4	5176.0	5141.1	5116.2	5101.3	5096.3
20°	5121.2	5128.7	5151.1	5178.5	5220.8	5253.2	5225.8	5188.4	5151.1	5128.7	5121.2
22.5°	5161.0	5173.5	5200.9	5250.7	5310.5	5357.8	5320.5	5258.2	5198.4	5168.5	5158.6
25°	5248.2	5258.2	5290.6	5357.8	5427.6	5472.4	5432.5	5360.3	5278.1	5238.3	5225.8
27.5°	5380.2	5395.2	5430.1	5509.8	5567.1	5592.0	5564.6	5514.7	5455.0	5412.6	5402.7
30°	5567.1	5584.5	5636.8	5721.5	5758.8	5773.8	5761.3	5729.0	5686.6	5641.8	5631.8
32.5°	5818.6	5828.6	5888.4	5968.1	6003.0	6007.9	5993.0	5978.0	5908.3	5833.6	5828.6
35°	6100.1	6117.5	6189.8	6284.4	6316.8	6319.3	6289.4	6267.0	6184.8	6125.0	6125.0
37.5°	6473.7	6481.2	6550.9	6658.0	6692.9	6683.0	6668.0	6648.1	6560.9	6483.7	6486.2
40°	6912.1	6927.1	6986.8	7111.4	7111.4	7098.9	7108.9	7093.9	7006.8	6932.0	6934.5
42.5°	7432.7	7440.2	7512.4	7644.4	7634.5	7609.5	7619.5	7599.6	7544.8	7460.1	7430.2
45°	7988.2	8018.0	8142.6	8269.6	8249.7	8170.0	8209.8	8204.9	8155.0	8028.0	8035.5
47.5°	8658.2	8708.0	8827.6	8979.5	8957.1	8832.6	8877.4	8907.3	8837.5	8698.1	8673.1
50°	9412.9	9445.3	9622.2	9764.1	9744.2	9612.2	9714.3	9719.3	9544.9	9348.2	9348.2
52.5°	10217.5	10249.9	10489.0	10710.7	10723.1	10531.3	10613.5	10608.5	10324.6	10065.5	10015.7
55°	11119.2	11134.1	11443.0	11769.3	11839.0	11652.2	11662.2	11562.5	11193.9	10892.5	10865.1
57.5°	12050.7	12105.5	12446.8	12870.2	13077.0	12962.4	12910.1	12643.6	12287.4	11941.1	11923.7
60°	13081.9	13084.4	13527.8	14028.5	14446.9	14524.2	14309.9	13953.7	13492.9	13034.6	13014.7
62.5°	13796.8	13903.9	14464.4	15311.3	16061.0	16494.4	15929.0	15181.7	14275.1	13535.3	13460.6
65°	13943.8	14016.0	14870.4	16305.1	17837.0	18771.1	17463.4	15874.2	14327.4	13341.0	13291.2
67.5°	12755.6	12832.9	13983.6	16185.5	19082.4	20997.9	18459.7	15540.4	13440.6	12220.1	12123.0
70°	9866.3	9953.4	11375.7	14247.7	18805.9	21697.8	17749.8	13555.2	11084.3	9766.6	9589.8
72.5°	5245.7	5567.1	6782.6	9779.1	15263.9	18681.4	14554.0	9891.2	7148.7	5843.5	5609.4
75°	1915.5	1955.3	2632.8	4336.6	8879.9	12810.4	9221.1	4717.7	2712.5	2094.8	1987.7
77.5°	792.1	789.6	866.8	1310.2	3225.7	6560.9	3599.3	1384.9	864.3	799.6	789.6
80°	468.3	468.3	515.6	545.5	849.4	1980.2	949.0	617.7	518.1	473.3	480.7
82.5°	209.2	221.7	326.3	343.7	411.0	543.0	458.3	393.6	338.8	234.1	211.7
85°	114.6	99.6	171.9	179.3	196.8	201.8	216.7	214.2	196.8	114.6	117.1
87.5°	22.4	27.4	49.8	37.4	42.3	37.4	49.8	69.7	72.2	39.9	32.4
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)