

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: P532363

Luminaire Tested: **GALN-SA7D-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29121 lumens
Efficiency: N/A
Efficacy: 67.3 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

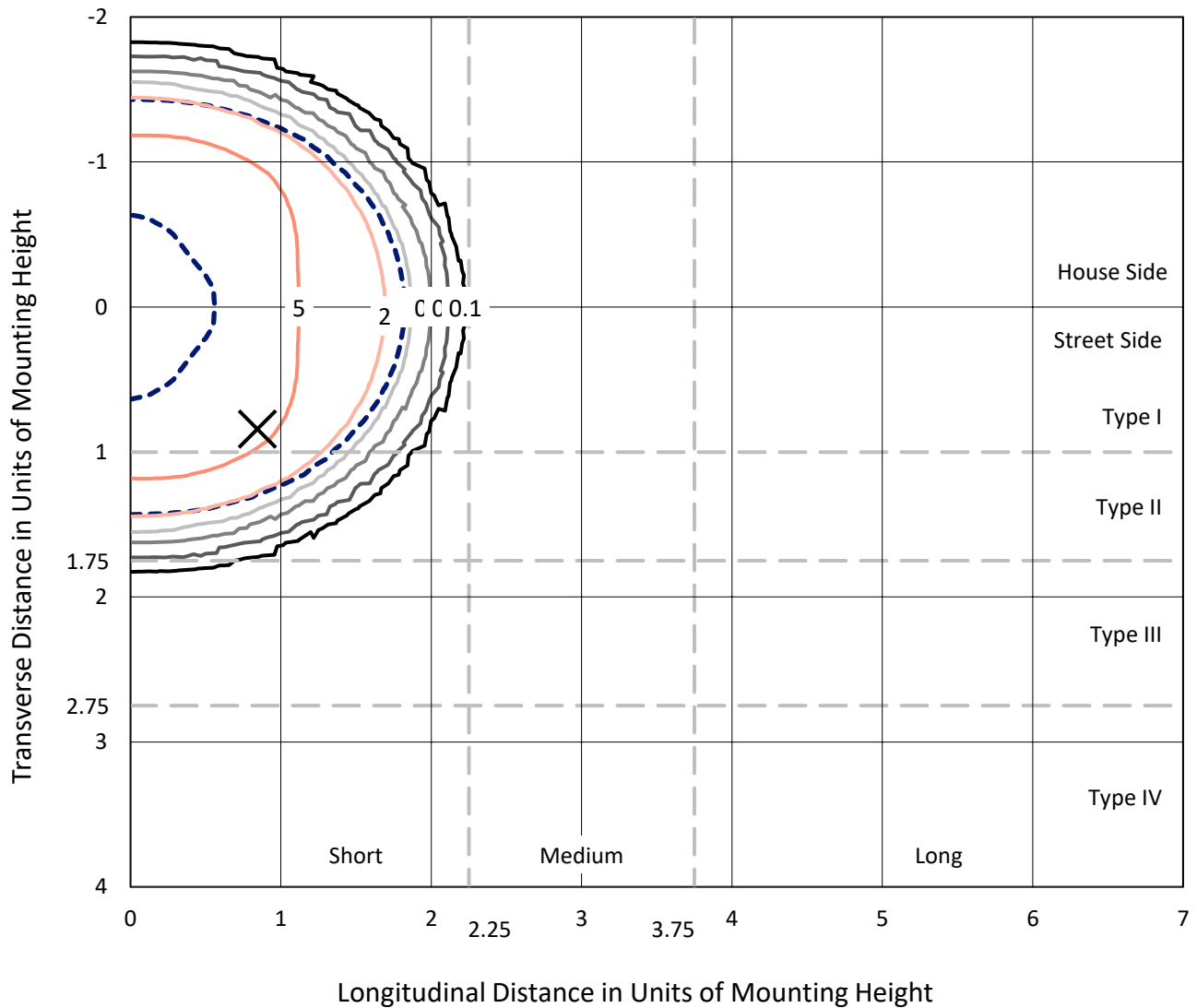
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

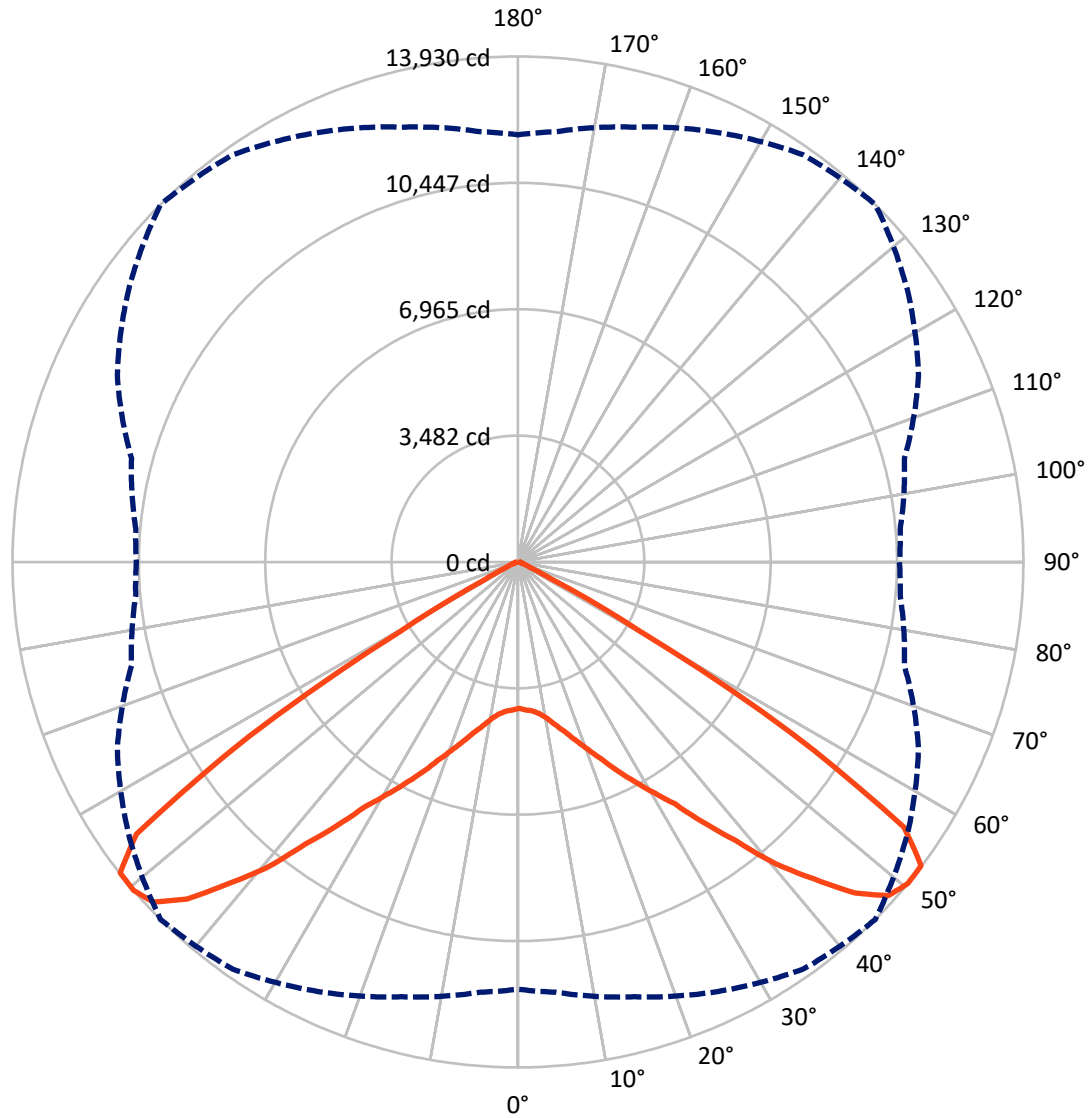
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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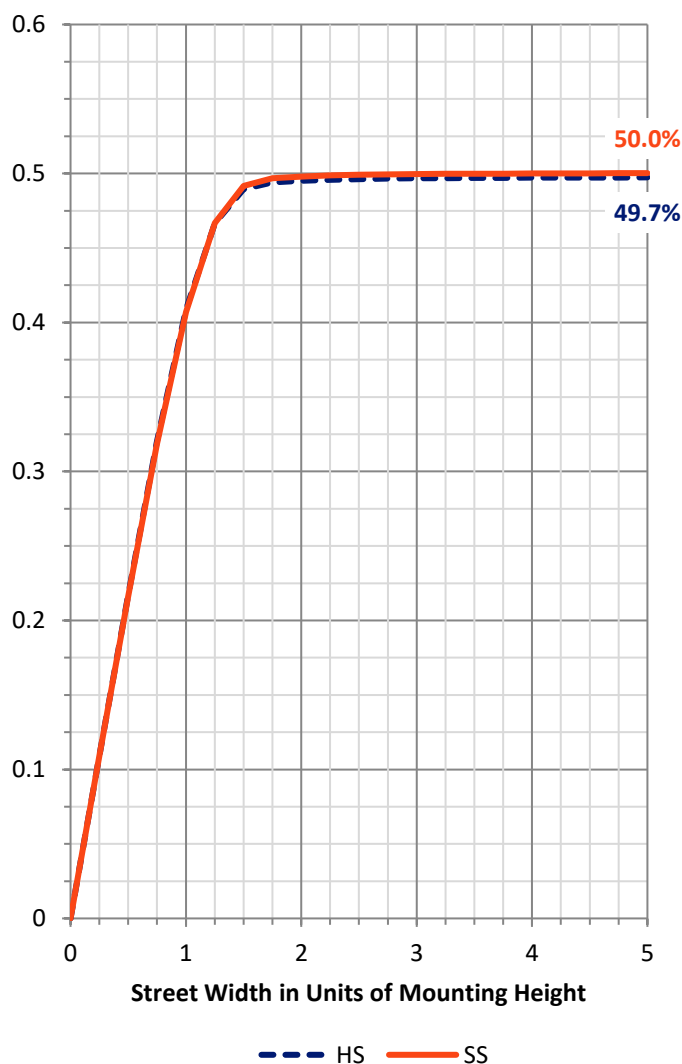
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14560.5	0.0	14560.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14560.5	0.0	14560.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29121.0	0.0	29121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	1.4
10°-20°	1384.3	4.8
20°-30°	2827.3	9.7
30°-40°	5391.7	18.5
40°-50°	9085.8	31.2
50°-60°	8664.9	29.8
60°-70°	1209.6	4.2
70°-80°	115.7	0.4
80°-90°	40.0	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°	29121.0	100.0
0°-180°	29121.0	100.0

Coefficient of Utilization



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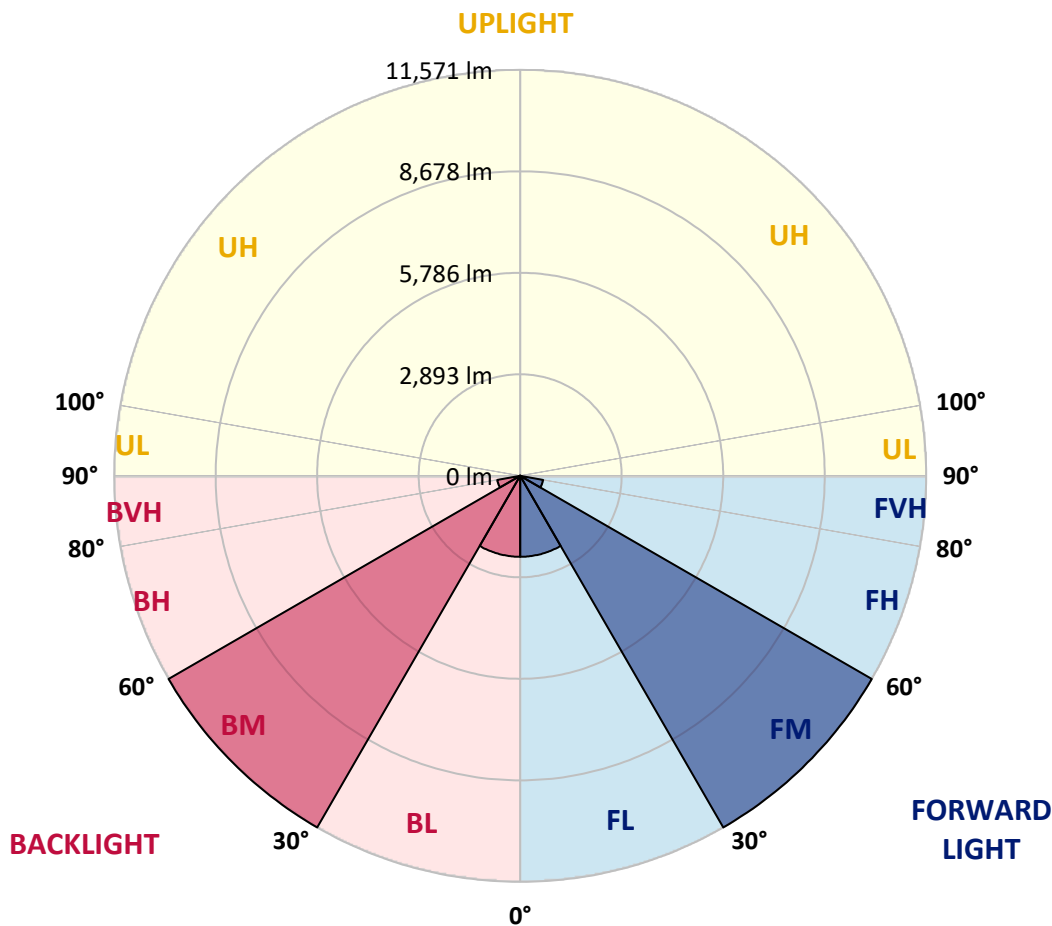
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2306.6	7.9			
FM (30°-60°)	11571.2	39.7			
FH (60°-80°)	662.6	2.3			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	2306.6	7.9	B3/2500		
BM (30°-60°)	11571.2	39.7	B5		
BH (60°-80°)	662.6	2.3	B2/1000		G1/1800
BVH (80°-90°)	20.0	0.1			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°	4037.3	4037.3	4037.3	4037.3	4037.3	4037.3	4037.3	4037.3	4037.3	4037.3	4037.3
2.5°	4022.6	4022.6	4017.7	4056.9	4037.3	4081.4	4076.5	4091.2	4105.9	4101.0	4140.2
5°	3988.3	3983.4	3983.4	4027.5	4071.6	4120.6	4164.7	4194.1	4243.1	4243.1	4292.1
7.5°	4022.6	3998.1	4032.4	4052.0	4135.3	4218.6	4292.1	4350.9	4463.6	4502.8	4488.1
10°	4032.4	4061.8	4086.3	4145.1	4248.0	4375.4	4439.1	4586.1	4713.5	4801.7	4821.2
12.5°	4096.1	4140.2	4208.8	4350.9	4444.0	4610.6	4698.8	4840.8	5017.2	5115.2	5183.8
15°	4218.6	4233.3	4321.5	4502.8	4703.7	4855.5	4992.7	5095.6	5267.1	5379.8	5384.7
17.5°	4375.4	4439.1	4561.6	4733.1	4943.7	5169.1	5276.9	5389.6	5453.3	5605.2	5639.5
20°	4689.0	4698.8	4816.3	5041.7	5306.3	5512.1	5590.5	5649.3	5624.8	5781.6	5811.0
22.5°	4982.9	4992.7	5139.7	5443.5	5727.7	5904.1	5938.4	5904.1	5830.6	5943.3	5953.1
25°	5281.8	5370.0	5477.8	5781.6	6134.4	6369.5	6374.4	6281.3	6129.5	6149.1	6198.0
27.5°	5747.3	5811.0	5923.7	6202.9	6590.0	6854.6	6810.5	6697.8	6501.8	6516.5	6501.8
30°	6291.1	6349.9	6443.0	6800.7	7084.9	7374.0	7437.7	7329.9	7035.9	6972.2	7045.7
32.5°	6947.7	7031.0	7202.5	7530.8	7770.8	7947.2	7991.3	7952.1	7677.7	7653.2	7702.2
35°	7746.3	7859.0	8015.8	8304.9	8500.9	8819.4	8819.4	8687.1	8437.2	8466.6	8461.7
37.5°	8589.1	8755.7	9000.6	9294.6	9559.2	9730.7	9676.8	9564.1	9314.2	9250.5	9314.2
40°	9647.4	9730.7	10039.4	10421.5	10744.9	10940.9	10710.6	10465.6	9867.9	9961.0	10132.5
42.5°	10612.6	10744.9	10980.1	11401.5	11768.9	11930.6	11656.3	11171.2	10450.9	10377.4	10504.8
45°	11435.8	11577.9	11886.5	12489.2	12876.3	13018.4	12410.8	11626.9	10803.7	10617.5	10671.4
47.5°	11984.5	12058.0	12489.2	13062.4	13415.2	13738.6	12866.5	11940.4	10970.3	10617.5	10597.9
50°	11773.8	11901.2	12405.9	13057.6	13699.4	13929.7	13096.7	12180.5	11024.2	10573.4	10514.6
52.5°	10455.8	10676.3	11239.8	12116.8	13086.9	13910.1	13415.2	12102.1	11004.6	10617.5	10705.7
55°	7276.0	7280.9	7966.8	9260.3	10975.2	12915.5	12949.8	12190.3	11132.0	10891.9	10896.8
57.5°	2925.1	3072.1	3596.3	4894.7	6477.3	8868.4	10544.0	11308.4	11146.7	11087.9	11239.8
60°	739.8	744.7	906.4	1381.7	2278.3	3802.1	5521.9	7472.0	8603.8	8990.8	9044.7
62.5°	377.3	382.2	421.4	490.0	622.3	1019.1	1812.9	2876.1	4091.2	4708.6	4870.2
65°	308.7	308.7	333.2	367.5	372.4	392.0	470.4	671.3	975.0	1107.3	1122.0
67.5°	235.2	235.2	254.8	274.4	284.2	279.3	269.5	279.3	338.1	323.4	313.6
70°	147.0	151.9	161.7	181.3	191.1	196.0	200.9	210.7	240.1	249.9	240.1
72.5°	88.2	88.2	93.1	107.8	122.5	132.3	147.0	156.8	171.5	196.0	191.1
75°	39.2	39.2	49.0	63.7	78.4	93.1	107.8	122.5	132.3	147.0	151.9
77.5°	9.8	14.7	24.5	44.1	58.8	78.4	98.0	112.7	122.5	122.5	117.6
80°	4.9	4.9	19.6	34.3	63.7	83.3	107.8	117.6	132.3	122.5	107.8
82.5°	4.9	4.9	19.6	34.3	58.8	83.3	112.7	127.4	137.2	122.5	102.9
85°	0.0	4.9	14.7	29.4	49.0	58.8	49.0	34.3	19.6	19.6	14.7
87.5°	0.0	0.0	4.9	4.9	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)