

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: P456459

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46492 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

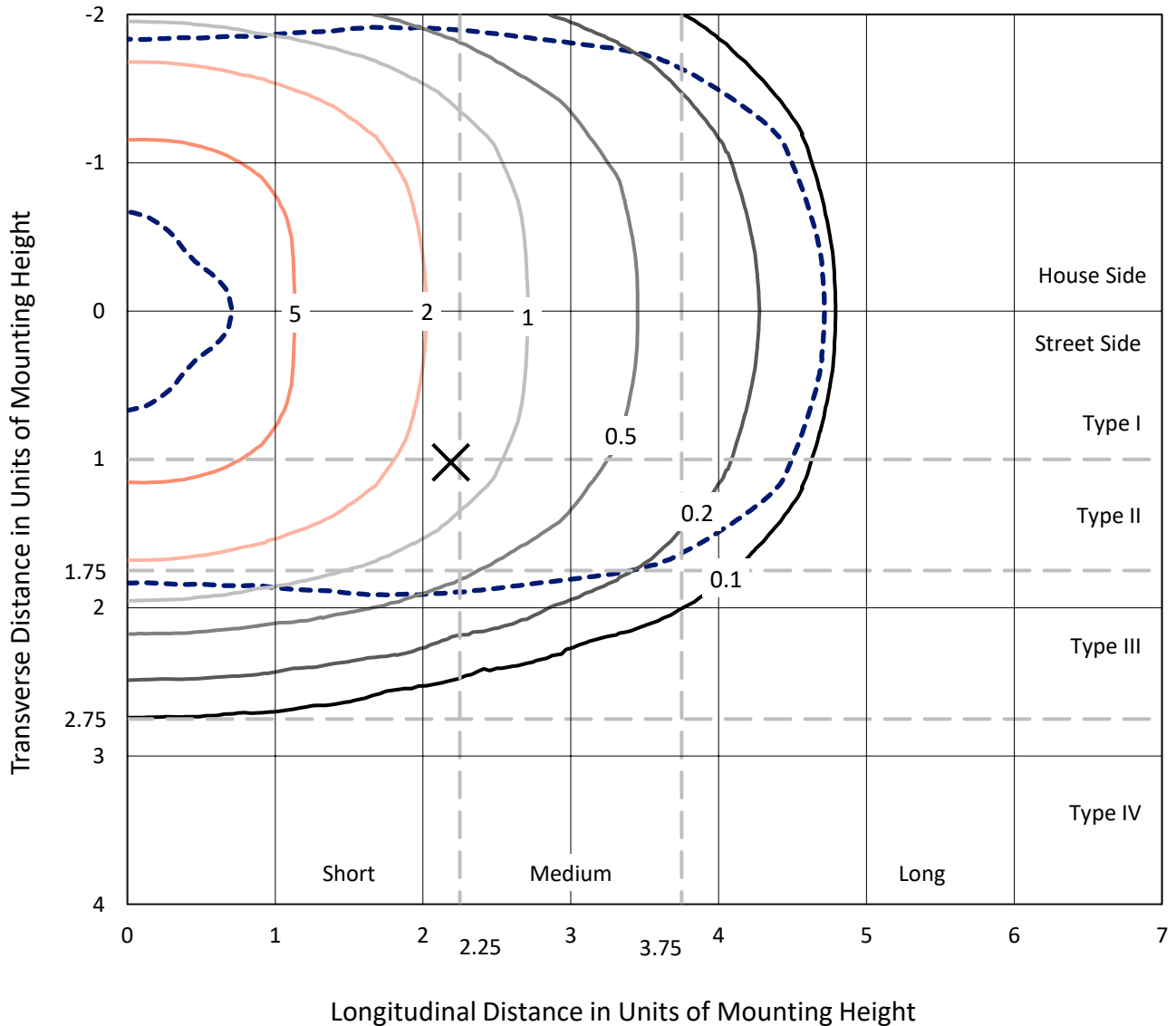
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

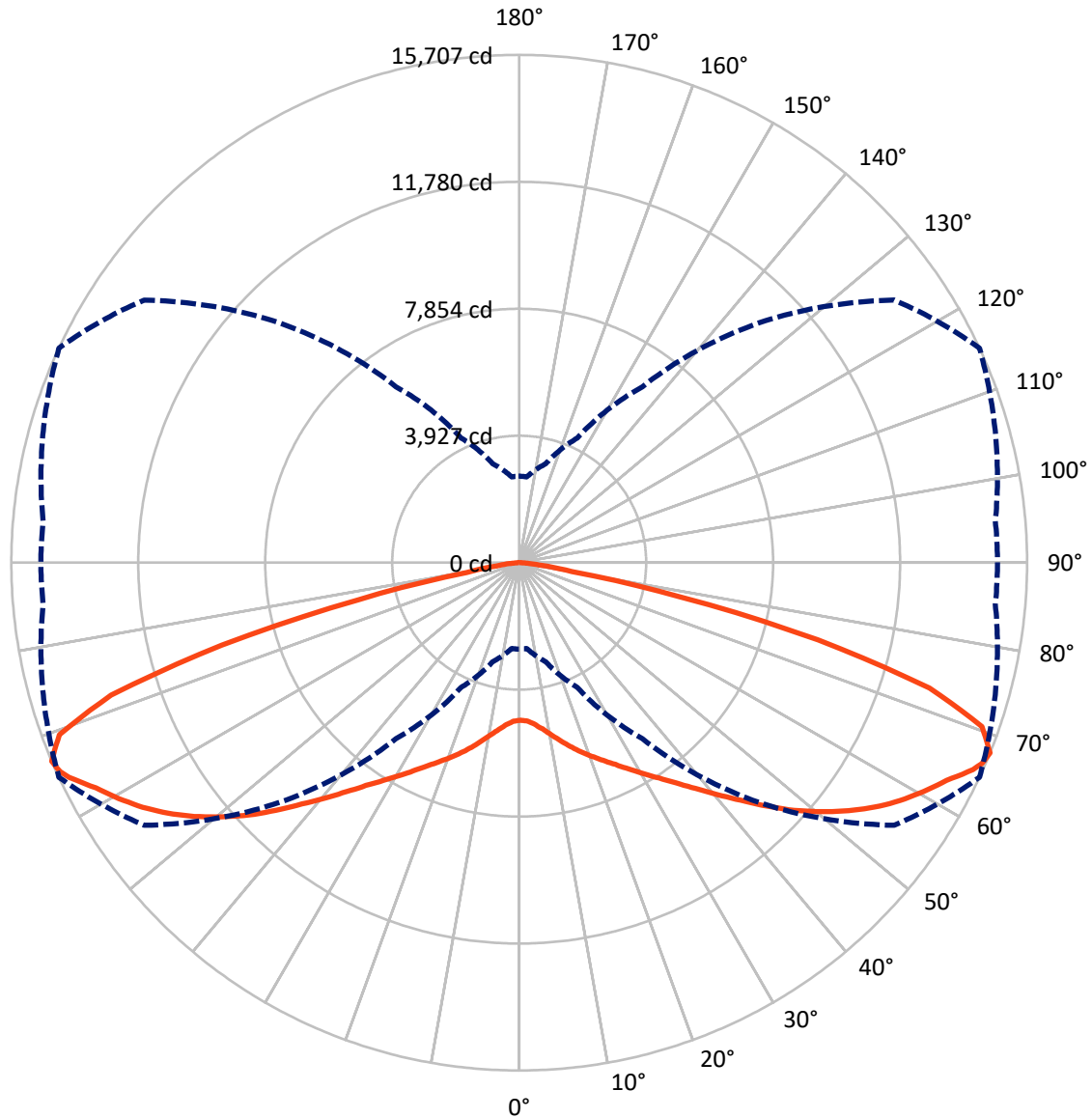
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23246.0	0.0	23246.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23246.0	0.0	23246.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46492.0	0.0	46492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	1.0
10°-20°	1607.4	3.5
20°-30°	3144.3	6.8
30°-40°	5348.0	11.5
40°-50°	8464.3	18.2
50°-60°	11223.4	24.1
60°-70°	10587.2	22.8
70°-80°	5233.8	11.3
80°-90°	403.4	0.9
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°	46492.0	100.0
0°-180°	46492.0	100.0

Coefficient of Utilization



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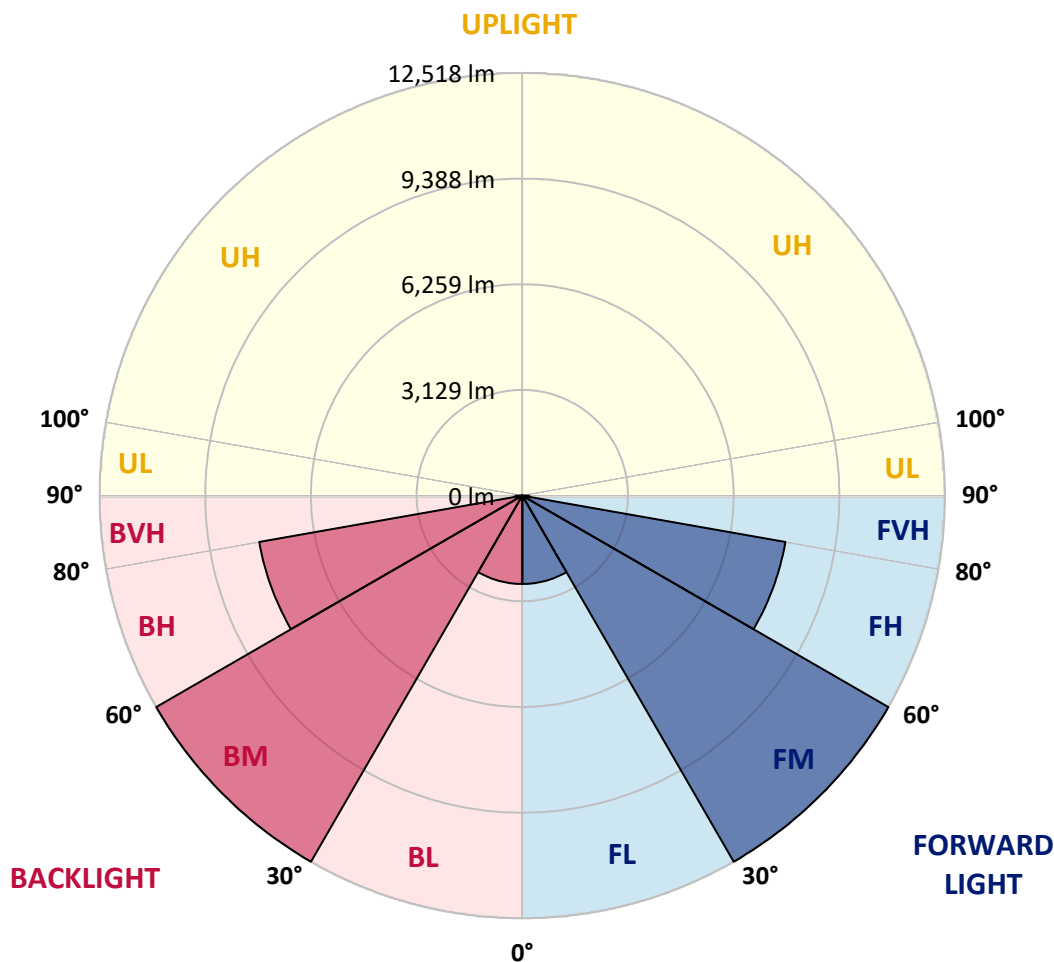
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2616.0	5.6			
FM	(30°-60°)	12517.9	26.9			
FH	(60°-80°)	7910.5	17.0			G4/12000
FVH	(80°-90°)	201.7	0.4			G2/225
BL	(0°-30°)	2616.0	5.6	B4/5000		
BM	(30°-60°)	12517.9	26.9	B5		
BH	(60°-80°)	7910.5	17.0	B5		G5
BVH	(80°-90°)	201.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6
2.5°	4844.7	4849.7	4854.7	4862.2	4872.1	4887.1	4897.0	4904.5	4924.4	4926.9	4924.4
5°	4827.3	4832.3	4844.7	4867.1	4899.5	4944.4	4979.2	5021.6	5054.0	5076.4	5071.4
7.5°	4824.8	4834.8	4854.7	4902.0	4964.3	5041.5	5121.2	5193.4	5255.7	5305.5	5298.1
10°	4864.6	4877.1	4909.5	4979.2	5076.4	5188.5	5300.5	5407.7	5497.3	5562.1	5584.5
12.5°	4931.9	4941.9	5001.6	5106.3	5245.7	5385.2	5512.3	5644.3	5768.8	5878.4	5878.4
15°	5049.0	5066.4	5141.1	5293.1	5464.9	5626.8	5756.4	5895.9	6030.4	6154.9	6192.3
17.5°	5210.9	5235.8	5347.9	5542.2	5761.4	5910.8	6032.9	6147.4	6264.5	6384.1	6401.5
20°	5432.6	5457.5	5606.9	5841.1	6100.1	6279.5	6361.7	6389.1	6446.3	6560.9	6575.9
22.5°	5734.0	5758.9	5925.8	6189.8	6478.7	6673.0	6707.9	6643.1	6628.2	6717.8	6727.8
25°	6075.2	6097.6	6289.4	6573.4	6872.3	7084.0	7074.0	6914.6	6825.0	6879.7	6894.7
27.5°	6458.8	6491.2	6685.5	6979.4	7303.2	7490.0	7460.1	7228.5	7036.7	7026.7	7031.7
30°	6949.5	6984.4	7168.7	7450.2	7769.0	7940.9	7878.6	7567.2	7270.8	7171.2	7171.2
32.5°	7467.6	7554.8	7741.6	8035.5	8284.6	8409.1	8314.5	7940.9	7547.3	7407.8	7400.3
35°	8142.6	8189.9	8374.3	8660.7	8847.5	8944.7	8762.8	8361.8	7908.5	7744.1	7721.7
37.5°	8802.7	8842.5	9056.8	9330.8	9557.4	9552.4	9305.8	8862.5	8356.8	8172.5	8157.6
40°	9477.7	9520.1	9764.2	10015.7	10242.4	10222.5	9923.6	9427.9	8889.9	8683.1	8723.0
42.5°	10063.1	10110.4	10386.9	10745.6	10949.8	10944.8	10598.6	10040.6	9480.2	9295.9	9330.8
45°	10596.1	10638.5	10959.8	11370.8	11669.7	11707.0	11328.4	10738.1	10162.7	9926.1	9936.0
47.5°	10972.2	11051.9	11388.2	11859.0	12265.0	12397.0	12025.9	11448.0	10785.4	10538.8	10553.8
50°	11258.7	11308.5	11674.7	12210.2	12723.3	12997.3	12698.4	12105.6	11408.1	11146.6	11181.5
52.5°	11293.5	11353.3	11751.9	12369.6	13027.2	13443.2	13296.2	12748.2	12043.3	11774.3	11849.0
55°	11009.6	11044.5	11520.2	12270.0	13146.7	13774.4	13811.8	13346.0	12648.6	12444.3	12494.1
57.5°	10200.1	10289.7	10892.5	11804.2	12982.4	13951.3	14197.9	13889.0	13261.3	13059.6	13139.3
60°	8872.4	8962.1	9567.4	10723.1	12362.1	13869.1	14516.7	14369.8	13816.8	13654.9	13697.2
62.5°	6952.0	6944.5	7694.3	9111.6	11129.2	13465.6	14753.4	14833.1	14364.8	14160.5	14225.3
65°	4506.0	4528.4	5253.2	6780.1	9268.5	12439.3	14805.7	15423.4	14902.8	14593.9	14641.3
66°	3624.2	3691.5	4306.7	5714.0	8319.5	11766.8	14648.7	15597.8	15067.2	14693.6	14716.0
67.5°	2675.2	2662.7	3168.4	4254.4	6643.1	10489.0	14158.0	15707.3	15254.0	14783.2	14793.2
70°	1526.9	1524.4	1703.7	2336.4	3905.7	7385.4	11933.7	15181.8	15632.6	15107.1	15079.7
72.5°	1115.9	1108.4	1133.3	1290.3	1905.5	3728.8	8232.3	13268.8	15438.3	15054.7	14977.5
75°	936.6	931.6	926.6	946.5	1068.6	1688.8	4369.0	9545.0	13395.8	14130.6	14050.9
77.5°	764.7	764.7	767.2	762.2	767.2	889.2	1810.9	5116.2	8157.6	9106.6	9328.3
80°	597.8	595.3	637.7	620.2	580.4	570.4	802.1	1646.5	2707.6	2692.6	2221.8
82.5°	440.9	411.0	485.7	473.3	428.4	363.7	468.3	702.4	904.2	587.8	435.9
85°	279.0	276.5	343.7	313.8	261.5	171.9	224.2	301.4	373.6	226.7	184.3
87.5°	49.8	47.3	109.6	79.7	79.7	49.8	62.3	82.2	122.1	84.7	62.3
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)