

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: STREETWORKS

Report Number: P316101

Luminaire Tested: **GAN-SA7D-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48342 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

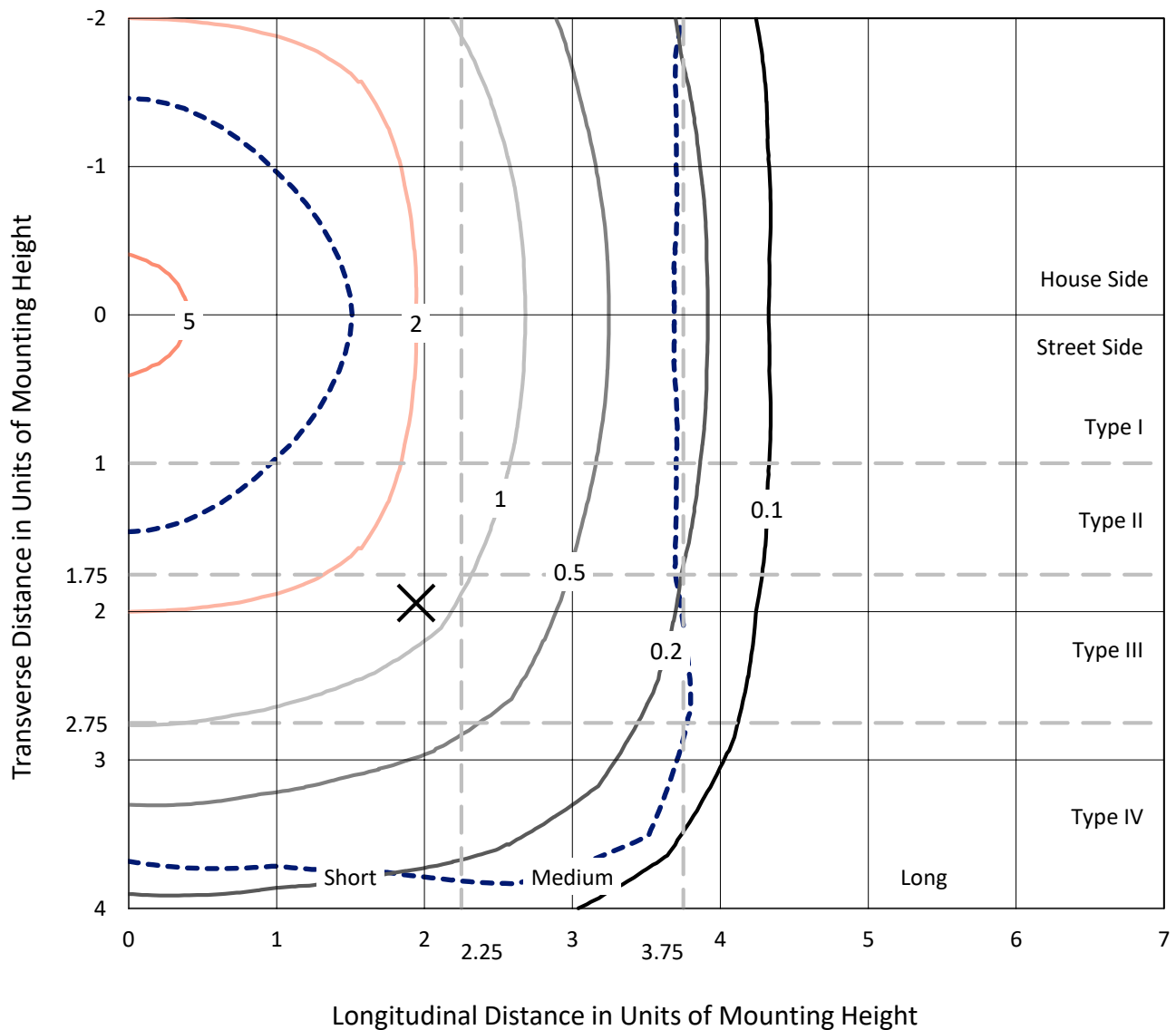
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

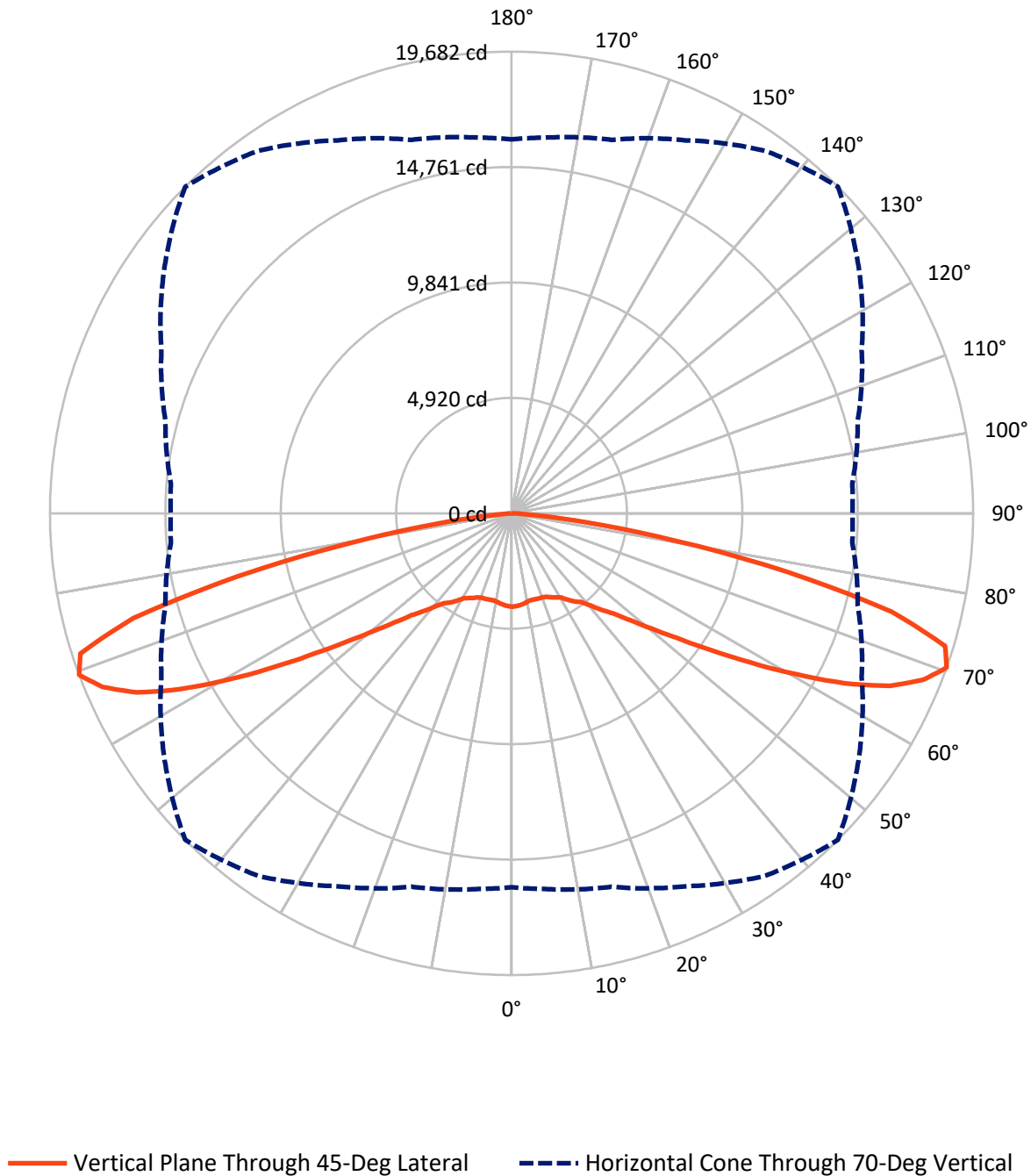
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24171.0	0.0	24171.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24171.0	0.0	24171.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48342.0	0.0	48342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	0.8
10°-20°	1084.7	2.2
20°-30°	1849.3	3.8
30°-40°	2889.6	6.0
40°-50°	4897.3	10.1
50°-60°	8930.5	18.5
60°-70°	15374.5	31.8
70°-80°	12051.1	24.9
80°-90°	893.6	1.8
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°	48342.0	100.0
0°-180°	48342.0	100.0

Coefficient of Utilization



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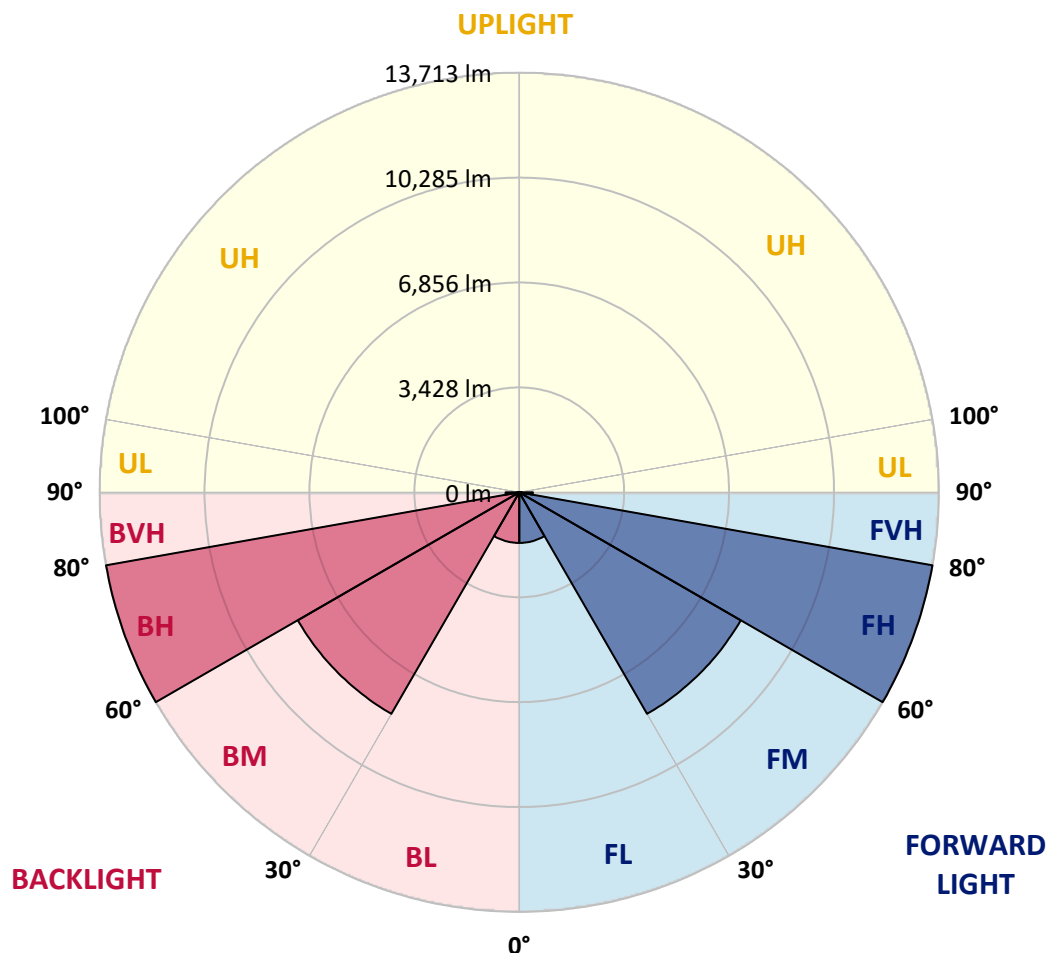
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1652.7	3.4			
FM	(30°-60°)	8358.7	17.3			
FH	(60°-80°)	13712.8	28.4			G5
FVH	(80°-90°)	446.8	0.9			G3/500
BL	(0°-30°)	1652.7	3.4	B3/2500		
BM	(30°-60°)	8358.7	17.3	B4/8500		
BH	(60°-80°)	13712.8	28.4	B5		G5
BVH	(80°-90°)	446.8	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3978.6	3978.6	3978.6	3978.6	3978.6	3978.6	3978.6	3978.6	3978.6	3978.6	3978.6
2.5°	3961.0	3965.8	3961.0	3964.2	3956.2	3959.4	3959.4	3959.4	3957.8	3959.4	3956.2
5°	3925.8	3929.0	3922.6	3925.8	3921.0	3925.8	3927.4	3925.8	3922.6	3924.2	3917.8
7.5°	3873.0	3876.2	3871.4	3876.2	3869.8	3877.8	3876.2	3871.4	3866.6	3866.6	3860.2
10°	3844.2	3845.8	3833.0	3828.2	3813.8	3817.0	3821.8	3826.6	3831.4	3841.0	3839.4
12.5°	3845.8	3845.8	3826.6	3805.9	3785.1	3789.9	3797.9	3815.4	3834.6	3852.2	3853.8
15°	3861.8	3860.2	3831.4	3797.9	3783.5	3797.9	3802.7	3813.8	3844.2	3874.6	3876.2
17.5°	3873.0	3873.0	3828.2	3789.9	3788.3	3810.6	3809.0	3813.8	3847.4	3892.2	3893.8
20°	3893.8	3893.8	3836.2	3794.7	3794.7	3818.6	3820.2	3828.2	3861.8	3911.4	3919.4
22.5°	3940.2	3941.8	3881.0	3847.4	3850.6	3865.0	3869.8	3882.6	3913.0	3967.4	3977.0
25°	4005.7	4008.9	3946.6	3927.4	3938.6	3965.8	3962.6	3972.2	4005.7	4058.5	4068.1
27.5°	4096.9	4088.9	4031.3	4023.3	4034.5	4053.7	4052.1	4053.7	4080.9	4128.9	4140.1
30°	4215.2	4212.0	4170.4	4175.2	4170.4	4164.0	4165.6	4178.4	4192.8	4231.2	4242.4
32.5°	4330.4	4333.6	4308.0	4332.0	4367.1	4391.1	4354.3	4319.2	4303.2	4324.0	4333.6
35°	4538.2	4546.2	4506.3	4490.3	4538.2	4608.6	4504.7	4447.1	4479.1	4506.3	4514.3
37.5°	4891.6	4896.4	4829.3	4765.3	4730.1	4797.3	4693.3	4698.1	4810.1	4861.3	4859.7
40°	5294.6	5296.2	5251.4	5195.5	5134.7	5150.7	5109.1	5121.9	5195.5	5241.8	5254.6
42.5°	5774.3	5769.5	5699.2	5619.2	5601.6	5617.6	5547.3	5537.7	5622.4	5705.6	5707.2
45°	6396.4	6385.2	6294.0	6206.1	6121.3	6086.2	6068.6	6114.9	6231.7	6308.4	6310.0
47.5°	7066.4	7036.0	6988.1	6917.7	6844.1	6809.0	6780.2	6802.6	6887.3	6917.7	6920.9
50°	7755.6	7762.0	7771.6	7744.4	7717.2	7706.0	7630.9	7587.7	7613.3	7557.3	7549.3
52.5°	8572.8	8585.6	8678.3	8756.7	8803.0	8827.0	8684.7	8536.0	8452.8	8344.1	8312.1
55°	9537.0	9557.8	9693.7	9911.2	10135.1	10253.4	9996.0	9717.7	9460.3	9257.2	9191.6
57.5°	10611.6	10648.4	10835.5	11252.8	11711.8	11991.6	11556.7	11051.4	10554.0	10261.4	10210.2
60°	11871.7	11906.9	12165.9	12764.0	13507.6	13928.1	13269.3	12442.6	11823.7	11543.9	11449.5
62.5°	13371.6	13374.8	13693.1	14391.9	15373.7	15959.0	15066.7	13961.7	13323.7	12986.3	12895.1
65°	14985.1	14993.1	15322.5	16077.3	17092.7	17729.2	16721.8	15570.4	14790.0	14292.7	14222.4
67.5°	16125.3	16158.9	16505.9	17414.2	18364.0	18938.1	17895.5	16593.8	15691.9	15098.7	15039.5
70°	15943.0	16074.1	16481.9	17542.1	18862.9	19681.7	18085.8	16472.3	15282.6	14582.2	14532.6
72.5°	13904.1	14155.2	14698.9	16090.1	18202.5	19329.9	17048.0	14753.3	13406.8	12810.4	12720.8
75°	9468.3	9876.0	10696.4	12703.2	15551.2	16736.1	14351.9	11763.0	10496.5	9671.3	9610.6
77.5°	4221.6	4314.4	5353.8	7664.5	10731.5	12018.8	10427.7	7694.9	5775.9	4607.0	4360.7
80°	1176.9	1191.3	1589.5	2854.4	5371.4	7061.6	5766.3	2998.3	1685.4	1188.1	1119.4
82.5°	374.2	406.2	495.7	740.4	1805.4	3222.2	1853.4	799.5	569.3	454.1	409.4
85°	182.3	180.7	251.1	300.6	460.5	713.2	490.9	371.0	324.6	215.9	195.1
87.5°	76.8	78.4	116.7	105.5	134.3	115.1	158.3	166.3	174.3	95.9	83.2
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)