

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: P317062

Luminaire Tested: **GAN-SA8D-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 53160 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

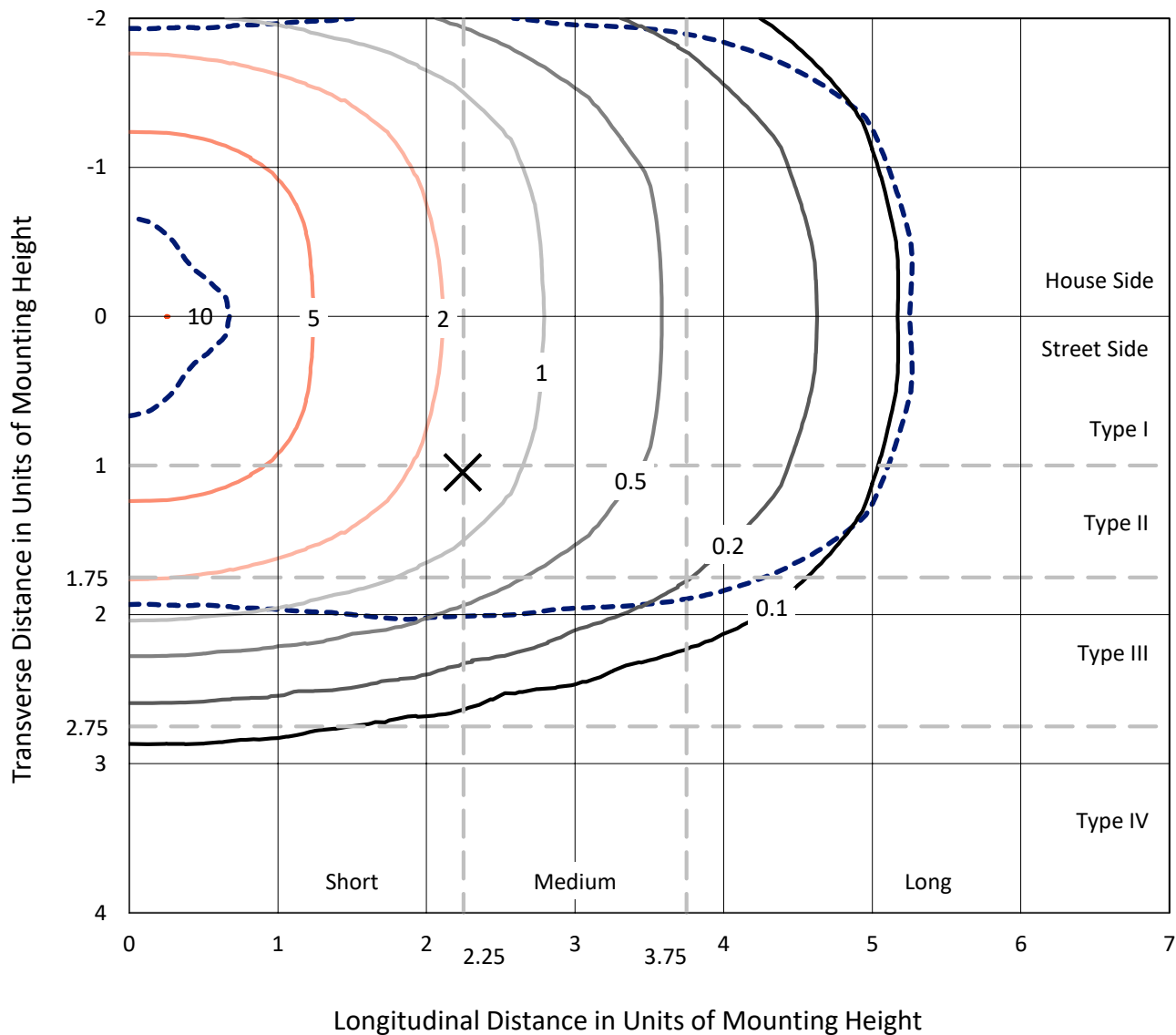
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

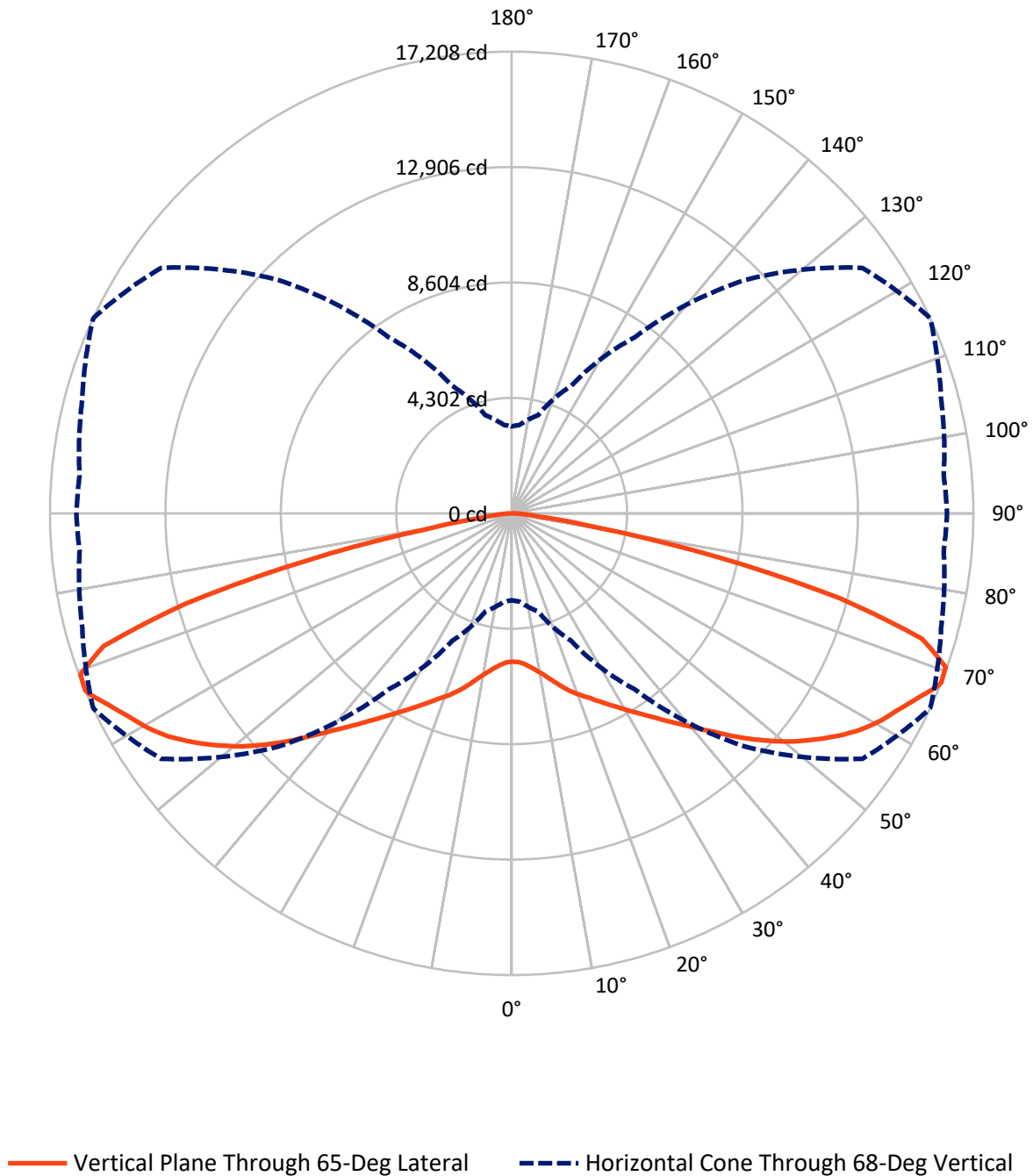
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26580.0	0.0	26580.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26580.0	0.0	26580.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53160.0	0.0	53160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	1.0
10°-20°	1812.1	3.4
20°-30°	3533.1	6.6
30°-40°	5935.3	11.2
40°-50°	9351.9	17.6
50°-60°	12506.6	23.5
60°-70°	12157.9	22.9
70°-80°	6646.1	12.5
80°-90°	675.9	1.3
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°	53160.0	100.0
0°-180°	53160.0	100.0

Coefficient of Utilization



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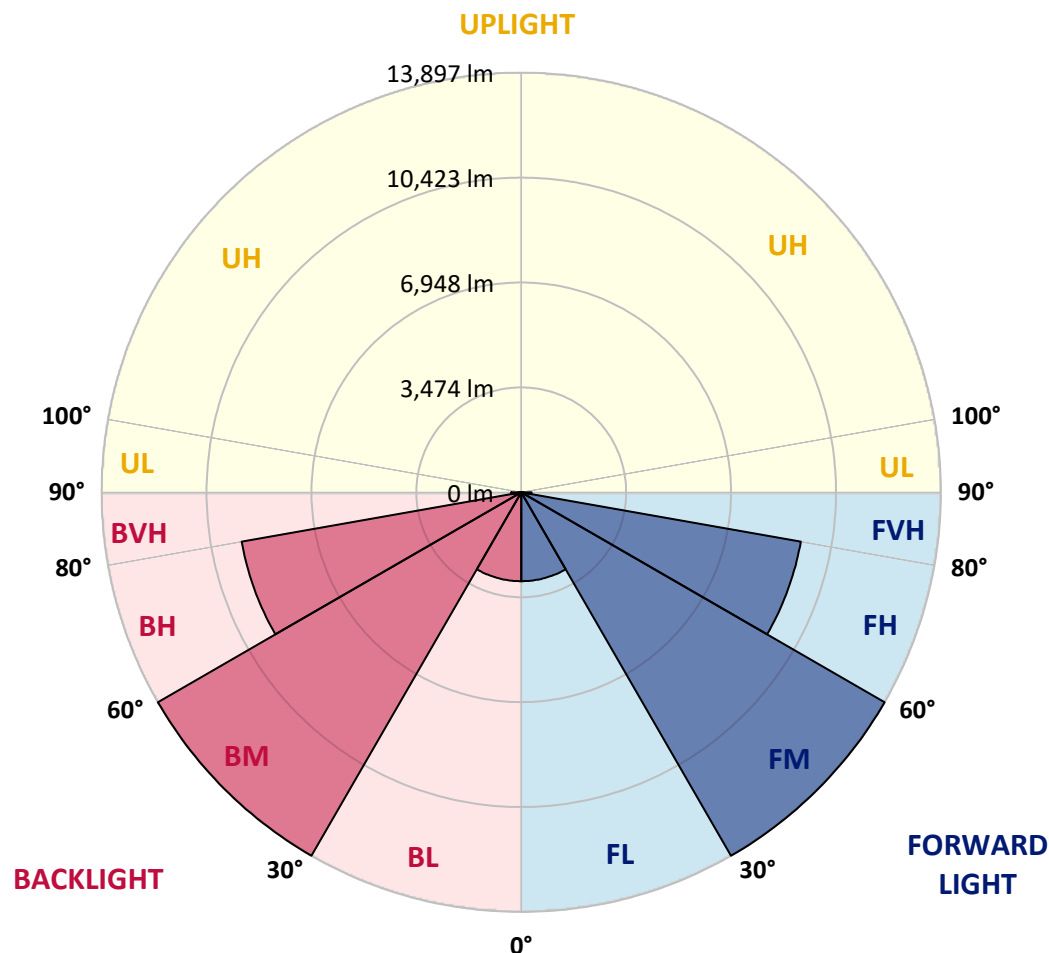
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2943.1	5.5			
FM	(30°-60°)	13896.9	26.1			
FH	(60°-80°)	9402.0	17.7			G4/12000
FVH	(80°-90°)	338.0	0.6			G3/500
BL	(0°-30°)	2943.1	5.5	B4/5000		
BM	(30°-60°)	13896.9	26.1	B5		
BH	(60°-80°)	9402.0	17.7	B5		G5
BVH	(80°-90°)	338.0	0.6			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5527.4	5527.4	5527.4	5527.4	5527.4	5527.4	5527.4	5527.4	5527.4	5527.4	5527.4
2.5°	5488.2	5490.0	5498.9	5509.6	5518.5	5541.6	5547.0	5555.9	5559.5	5568.4	5568.4
5°	5440.0	5443.6	5465.0	5493.5	5525.6	5582.6	5623.6	5670.0	5693.2	5718.1	5716.3
7.5°	5434.7	5443.6	5473.9	5520.3	5573.7	5668.2	5753.8	5846.4	5908.8	5965.9	5962.3
10°	5490.0	5504.2	5547.0	5616.5	5696.7	5814.4	5940.9	6065.7	6174.4	6261.8	6265.3
12.5°	5573.7	5591.6	5659.3	5764.5	5885.7	6037.2	6186.9	6327.7	6477.4	6607.6	6618.3
15°	5684.2	5707.4	5809.0	5965.9	6151.2	6331.3	6491.7	6636.1	6809.0	6989.0	7006.8
17.5°	5848.2	5880.3	6014.0	6226.1	6470.3	6668.2	6835.7	6944.4	7088.8	7274.2	7308.1
20°	6097.8	6138.8	6308.1	6561.2	6858.9	7065.6	7194.0	7217.2	7288.5	7454.2	7493.4
22.5°	6422.2	6457.8	6646.8	6948.0	7281.3	7505.9	7573.6	7481.0	7473.8	7607.5	7644.9
25°	6784.0	6816.1	7035.3	7374.0	7732.3	7980.0	7978.3	7798.2	7673.5	7776.8	7816.1
27.5°	7190.4	7240.3	7450.7	7807.1	8190.4	8434.6	8420.3	8142.2	7905.2	7931.9	7965.8
30°	7657.4	7712.7	7917.7	8279.5	8662.7	8901.6	8883.7	8516.6	8160.1	8088.8	8113.7
32.5°	8236.7	8302.7	8497.0	8853.4	9192.1	9407.8	9356.1	8923.0	8466.7	8311.6	8334.8
35°	8933.7	8972.9	9177.9	9529.0	9803.5	9951.4	9842.7	9393.5	8855.2	8668.1	8668.1
37.5°	9639.5	9669.8	9899.7	10240.2	10505.8	10584.2	10372.1	9908.7	9363.2	9097.6	9103.0
40°	10316.8	10398.8	10657.3	11006.7	11268.7	11290.1	11008.4	10496.9	9928.3	9653.8	9685.9
42.5°	11024.5	11104.7	11413.1	11808.8	12040.5	12076.1	11746.4	11156.4	10566.4	10343.6	10379.2
45°	11655.5	11719.6	12076.1	12536.0	12824.8	12917.4	12527.1	11912.1	11256.2	11038.7	11047.6
47.5°	12095.7	12179.5	12571.6	13113.5	13534.2	13676.8	13293.5	12648.3	11935.3	11671.5	11694.7
50°	12495.0	12539.6	12937.0	13528.8	14063.6	14357.7	14029.7	13375.5	12621.6	12341.7	12366.7
52.5°	12717.8	12774.8	13159.9	13776.6	14409.4	14883.5	14683.9	14029.7	13284.6	13011.9	13042.2
55°	12562.7	12605.5	13067.2	13831.8	14623.3	15207.9	15238.2	14669.6	13935.2	13696.4	13781.9
57.5°	11856.9	11910.4	12473.6	13475.4	14650.0	15427.1	15655.3	15263.2	14543.0	14348.8	14398.7
60°	10753.5	10787.4	11388.1	12514.6	14129.5	15518.0	15920.9	15748.0	15138.4	14944.1	15011.8
62.5°	8787.5	8837.4	9555.7	11065.5	13029.7	15248.9	16177.6	16149.0	15692.7	15514.5	15575.1
65°	6006.9	6094.2	6889.2	8798.2	11334.6	14425.4	16411.1	16616.0	16182.9	15958.3	16038.5
67.5°	3627.3	3691.5	4267.2	5809.0	8673.4	12764.2	16170.4	17147.2	16528.7	16166.9	16232.8
68°	3242.3	3301.1	3782.4	5242.2	8022.8	12295.4	15951.2	17207.8	16566.1	16163.3	16222.1
70°	1958.9	1998.1	2320.8	3240.5	5349.1	9753.6	14455.7	17157.9	16805.0	16213.2	16247.1
72.5°	1276.2	1288.7	1342.2	1663.0	2732.5	5454.3	10849.8	15988.6	17163.2	16503.7	16498.4
75°	1060.6	1053.4	1058.8	1096.2	1347.5	2392.1	6340.2	12630.5	16361.1	16045.6	15933.4
77.5°	896.6	891.2	889.4	891.2	901.9	1155.0	2752.1	7867.8	12520.0	14193.7	14293.5
80°	725.5	718.3	741.5	730.8	698.7	718.3	1153.2	3272.6	5901.7	6349.1	5949.8
82.5°	527.6	500.9	600.7	572.2	545.4	506.2	636.3	1057.0	1408.1	966.1	679.1
85°	406.4	377.9	456.3	438.5	374.3	258.5	377.9	516.9	570.4	326.2	256.7
87.5°	165.8	174.7	329.8	260.2	219.2	124.8	155.1	206.8	278.1	139.0	106.9
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)