

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: P317253

Luminaire Tested: **GAN-SA9C-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317253
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-SA9C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47516 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 501
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

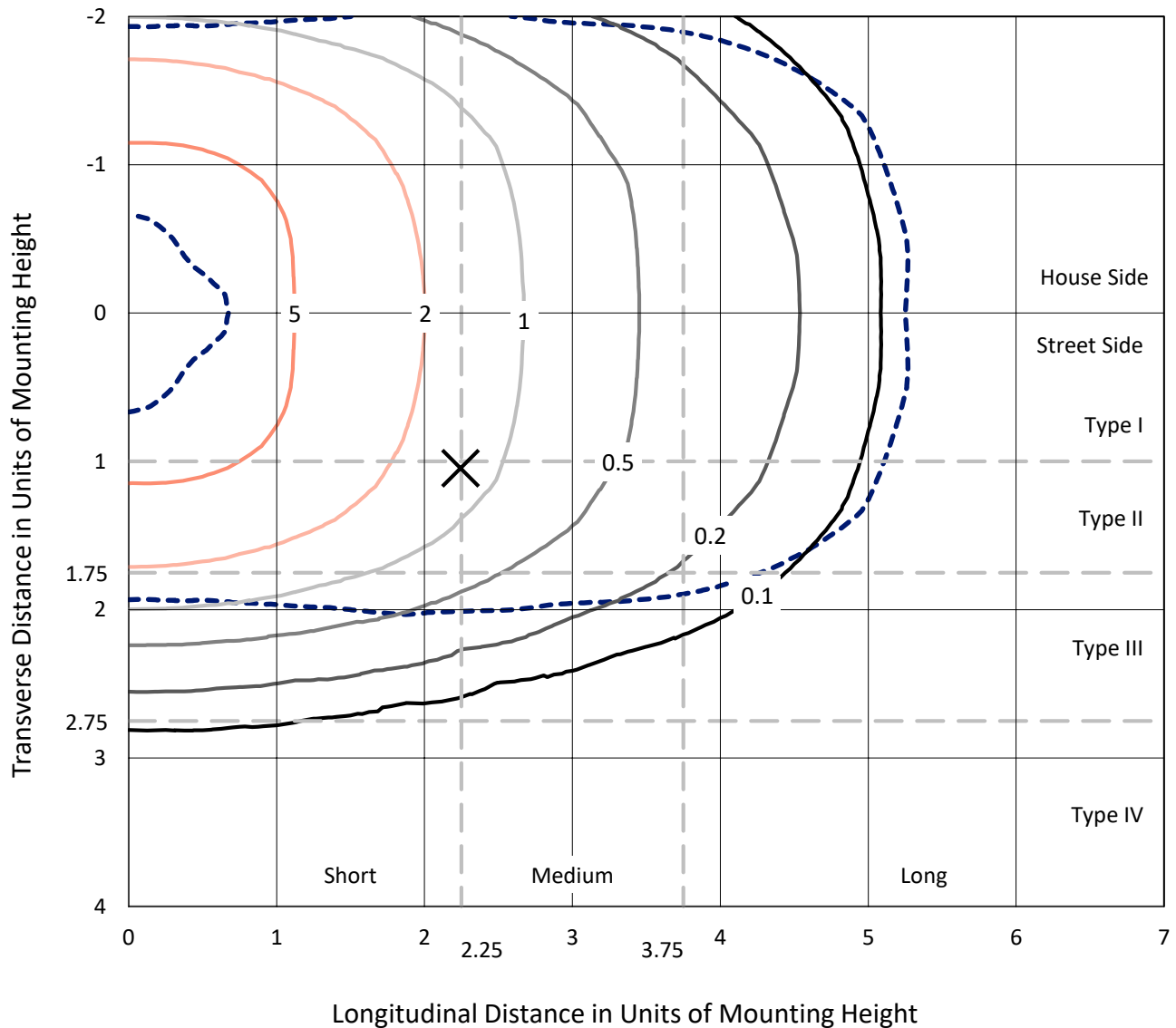


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Iso-Footcandle Lines of Horizontal Illumination

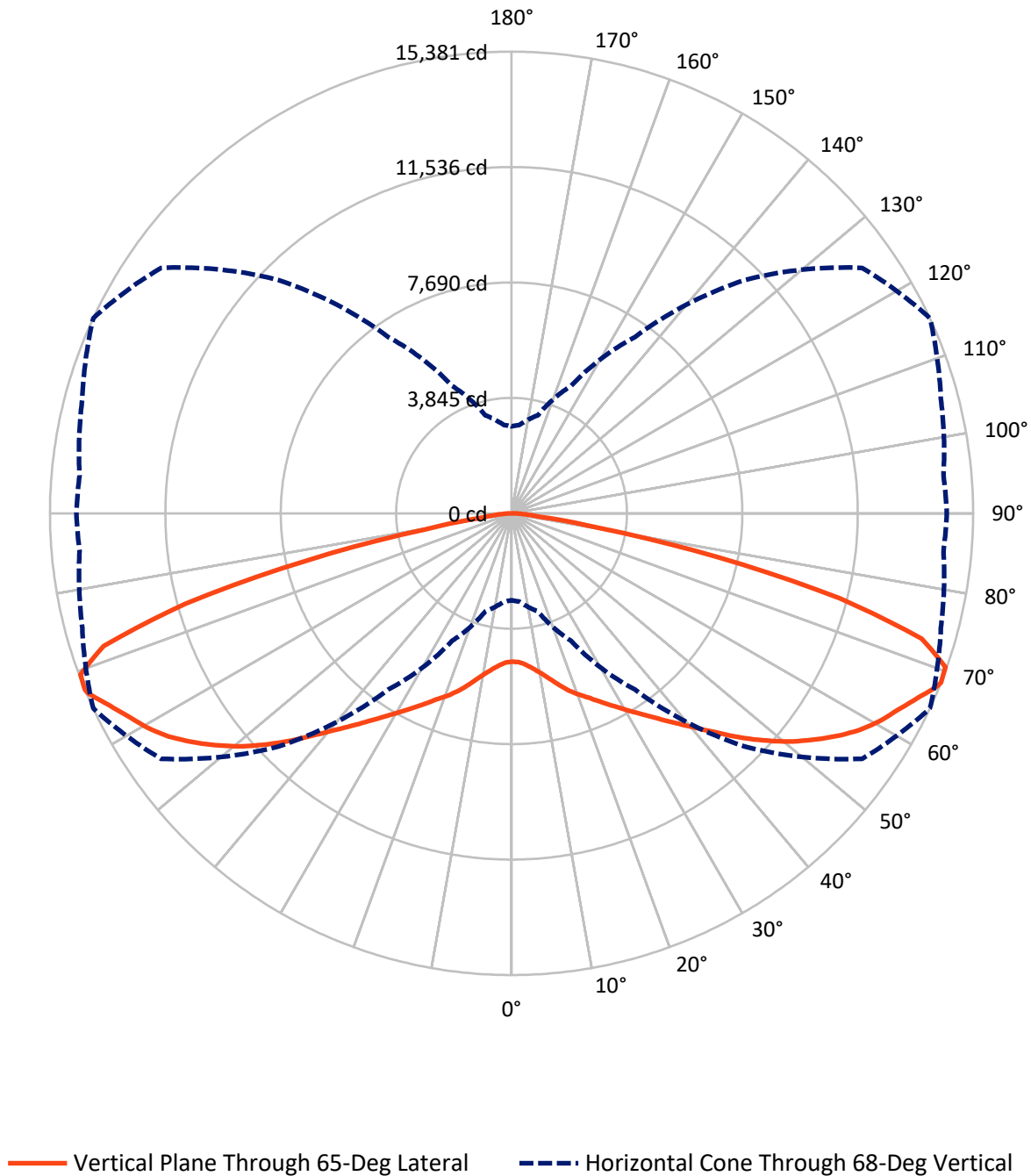
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	23758.0	0.0	23758.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23758.0	0.0	23758.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	47516.0	0.0	47516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.7	1.0
10°-20°	1619.7	3.4
20°-30°	3158.0	6.6
30°-40°	5305.1	11.2
40°-50°	8359.0	17.6
50°-60°	11178.7	23.5
60°-70°	10867.1	22.9
70°-80°	5940.5	12.5
80°-90°	604.2	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°	47516.0	100.0
0°-180°	47516.0	100.0

Coefficient of Utilization



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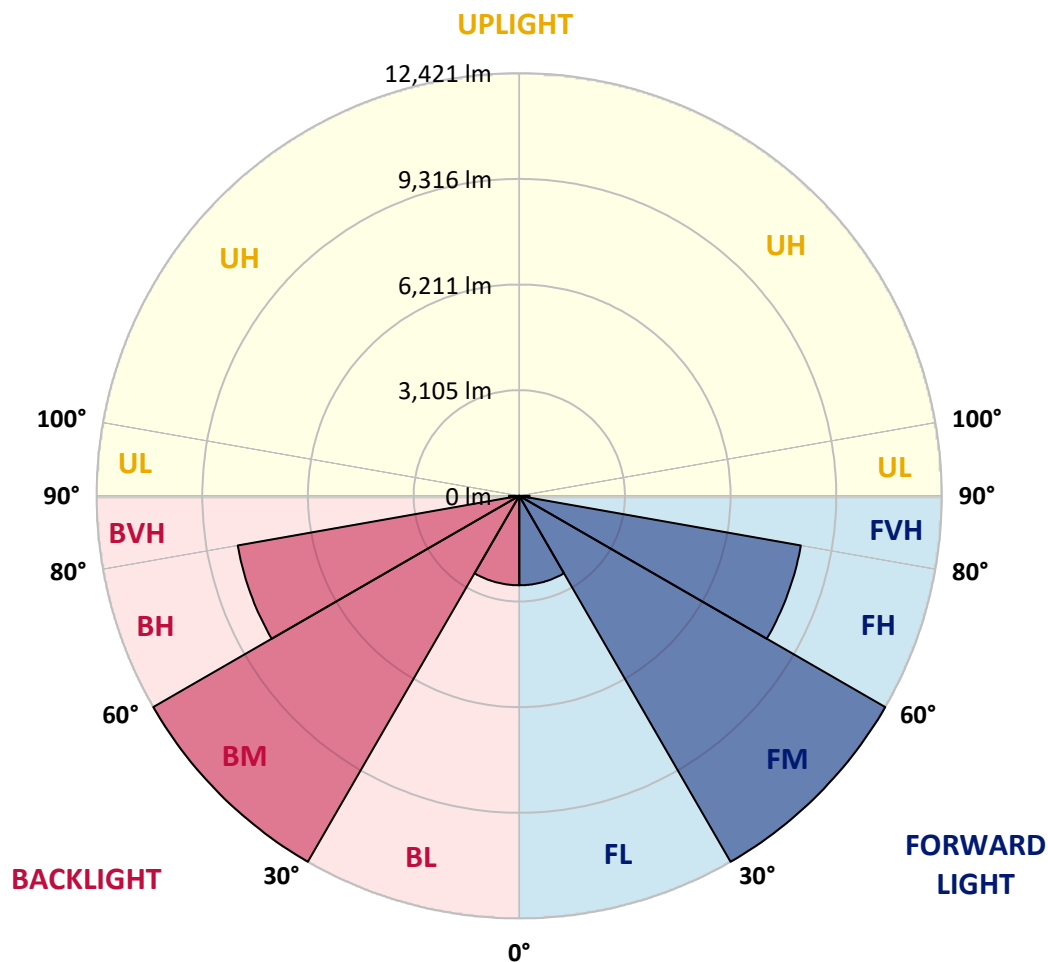
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2630.7	5.5			
FM	(30°-60°)	12421.4	26.1			
FH	(60°-80°)	8403.8	17.7			G4/12000
FVH	(80°-90°)	302.1	0.6			G3/500
BL	(0°-30°)	2630.7	5.5	B4/5000		
BM	(30°-60°)	12421.4	26.1	B5		
BH	(60°-80°)	8403.8	17.7	B5		G5
BVH	(80°-90°)	302.1	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°	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5
2.5°	4905.5	4907.1	4915.1	4924.6	4932.6	4953.3	4958.1	4966.0	4969.2	4977.2	4977.2
5°	4862.5	4865.7	4884.8	4910.3	4939.0	4989.9	5026.6	5068.0	5088.7	5111.0	5109.4
7.5°	4857.7	4865.7	4892.7	4934.2	4982.0	5066.4	5142.9	5225.7	5281.5	5332.5	5329.3
10°	4907.1	4919.8	4958.1	5020.2	5091.9	5197.1	5310.2	5421.7	5518.9	5596.9	5600.1
12.5°	4982.0	4997.9	5058.4	5152.4	5260.8	5396.2	5530.0	5655.9	5789.7	5906.0	5915.6
15°	5080.7	5101.5	5192.3	5332.5	5498.2	5659.1	5802.5	5931.5	6086.1	6247.0	6262.9
17.5°	5227.3	5256.0	5375.5	5565.1	5783.4	5960.2	6110.0	6207.1	6336.2	6501.9	6532.2
20°	5450.4	5487.0	5638.4	5864.6	6130.7	6315.5	6430.2	6450.9	6514.6	6662.8	6697.9
22.5°	5740.3	5772.2	5941.1	6210.3	6508.3	6709.0	6769.6	6686.7	6680.3	6799.8	6833.3
25°	6063.8	6092.4	6288.4	6591.1	6911.3	7132.8	7131.2	6970.3	6858.8	6951.2	6986.2
27.5°	6427.0	6471.6	6659.6	6978.3	7320.8	7539.1	7526.3	7277.8	7065.9	7089.8	7120.1
30°	6844.4	6893.8	7077.0	7400.5	7743.0	7956.5	7940.6	7612.4	7293.7	7230.0	7252.3
32.5°	7362.2	7421.2	7594.8	7913.5	8216.2	8409.0	8362.8	7975.6	7567.8	7429.1	7449.9
35°	7985.2	8020.2	8203.4	8517.3	8762.7	8894.9	8797.7	8396.2	7915.1	7747.8	7747.8
37.5°	8616.1	8643.2	8848.7	9153.0	9390.4	9460.5	9270.9	8856.7	8369.1	8131.7	8136.5
40°	9221.5	9294.8	9525.8	9838.1	10072.3	10091.4	9839.7	9382.4	8874.2	8628.8	8657.5
42.5°	9854.0	9925.7	10201.3	10555.0	10762.1	10794.0	10499.3	9971.9	9444.6	9245.4	9277.3
45°	10418.0	10475.4	10794.0	11205.0	11463.1	11546.0	11197.1	10647.4	10061.1	9866.8	9874.7
47.5°	10811.5	10886.4	11236.9	11721.3	12097.2	12224.7	11882.2	11305.4	10668.1	10432.3	10453.1
50°	11168.4	11208.2	11563.5	12092.5	12570.4	12833.3	12540.2	11955.5	11281.5	11031.4	11053.7
52.5°	11367.6	11418.5	11762.7	12313.9	12879.5	13303.3	13124.9	12540.2	11874.2	11630.4	11657.5
55°	11228.9	11267.2	11679.8	12363.3	13070.7	13593.3	13620.4	13112.1	12455.7	12242.2	12318.7
57.5°	10598.0	10645.8	11149.3	12044.7	13094.6	13789.2	13993.2	13642.7	12999.0	12825.3	12870.0
60°	9611.8	9642.1	10179.0	11185.9	12629.4	13870.5	14230.6	14076.0	13531.1	13357.5	13418.0
62.5°	7854.5	7899.1	8541.2	9890.7	11646.4	13629.9	14460.0	14434.5	14026.6	13867.3	13921.5
65°	5369.1	5447.2	6157.8	7864.1	10131.2	12893.9	14668.7	14851.9	14464.8	14264.0	14335.7
67.5°	3242.2	3299.5	3814.1	5192.3	7752.6	11409.0	14453.6	15326.7	14773.8	14450.4	14509.4
68°	2898.0	2950.6	3380.8	4685.6	7171.0	10990.0	14257.6	15380.9	14807.3	14447.2	14499.8
70°	1750.9	1786.0	2074.4	2896.5	4781.2	8718.0	12920.9	15336.2	15020.8	14491.8	14522.1
72.5°	1140.7	1151.9	1199.7	1486.5	2442.4	4875.2	9697.9	14291.1	15341.0	14751.5	14746.8
75°	948.0	941.6	946.4	979.8	1204.5	2138.1	5667.0	11289.5	14624.1	14342.1	14241.7
77.5°	801.4	796.6	795.0	796.6	806.2	1032.4	2459.9	7032.4	11190.7	12686.7	12776.0
80°	648.4	642.1	662.8	653.2	624.5	642.1	1030.8	2925.1	5275.1	5675.0	5318.1
82.5°	471.6	447.7	536.9	511.4	487.5	452.5	568.8	944.8	1258.6	863.5	607.0
85°	363.3	337.8	407.9	391.9	334.6	231.0	337.8	462.0	509.8	291.6	229.4
87.5°	148.2	156.1	294.7	232.6	196.0	111.5	138.6	184.8	248.5	124.3	95.6
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)