

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: P317303

Luminaire Tested: **GAN-SA9D-830-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317303
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-SA9D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56346 lumens
Efficiency: N/A
Efficacy: 98.0 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): 575
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

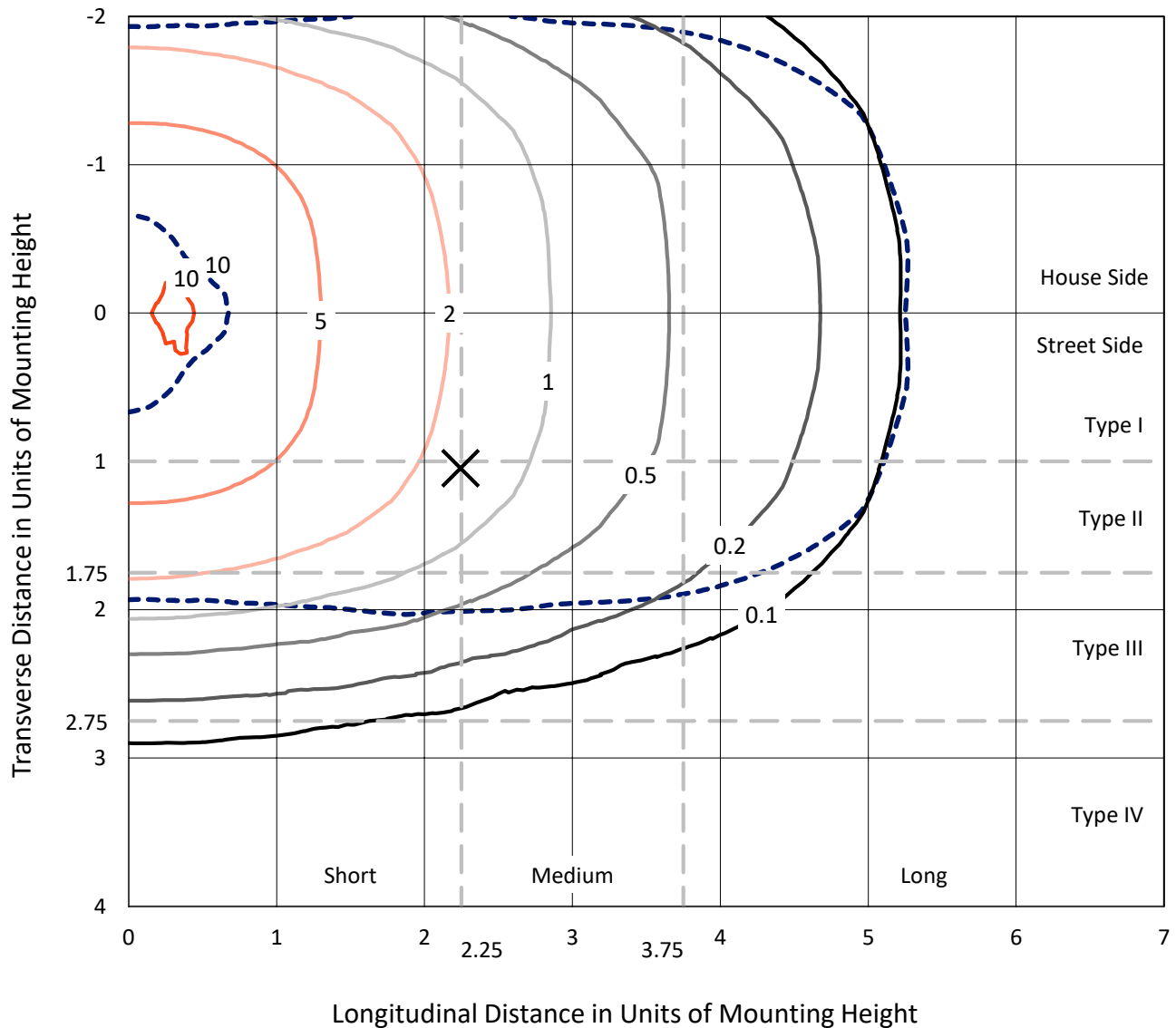


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Iso-Footcandle Lines of Horizontal Illumination

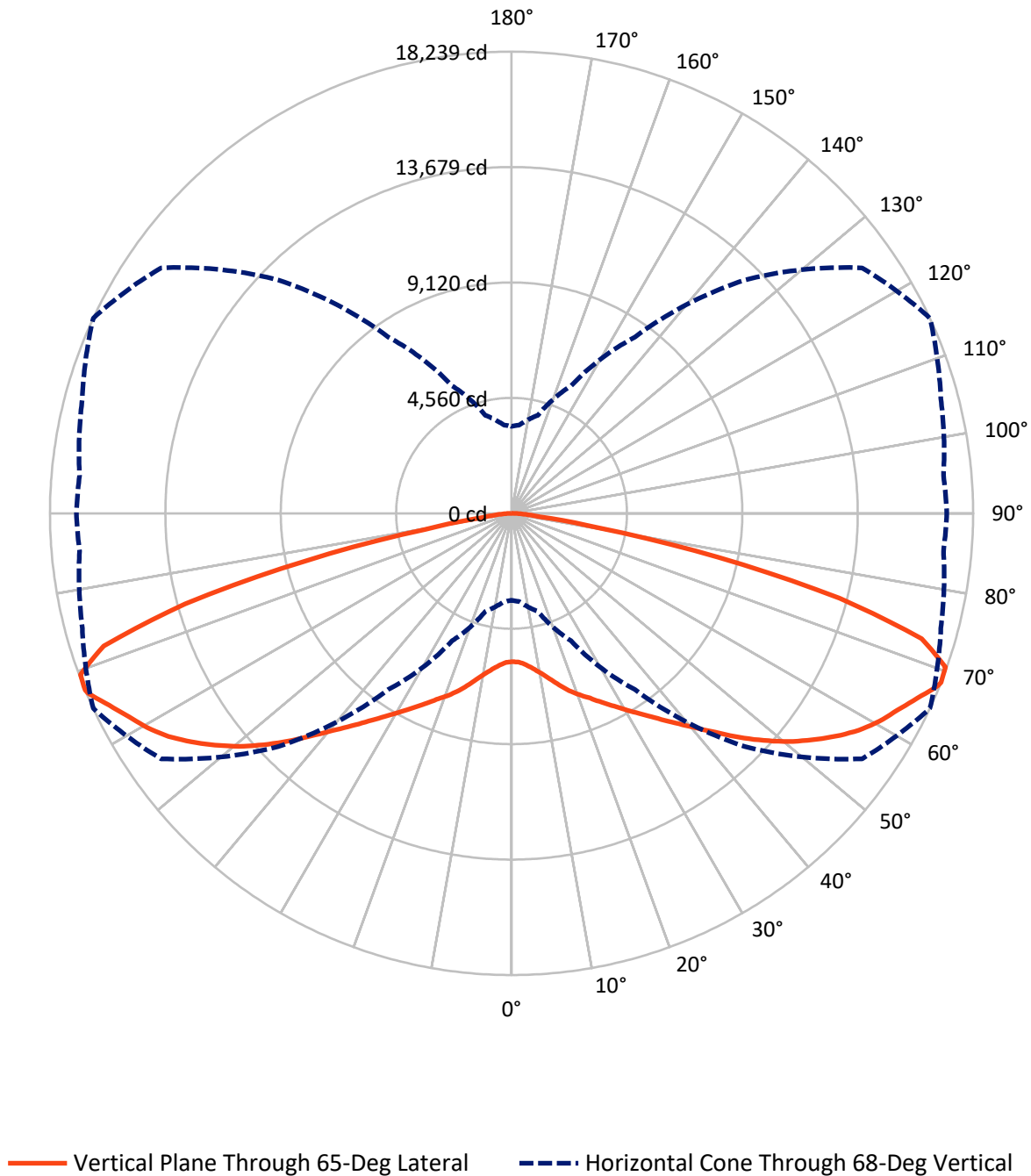
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	28173.0	0.0	28173.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28173.0	0.0	28173.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	56346.0	0.0	56346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.6	1.0
10°-20°	1920.7	3.4
20°-30°	3744.8	6.6
30°-40°	6291.0	11.2
40°-50°	9912.4	17.6
50°-60°	13256.1	23.5
60°-70°	12886.6	22.9
70°-80°	7044.4	12.5
80°-90°	716.4	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°	56346.0	100.0
0°-180°	56346.0	100.0

Coefficient of Utilization



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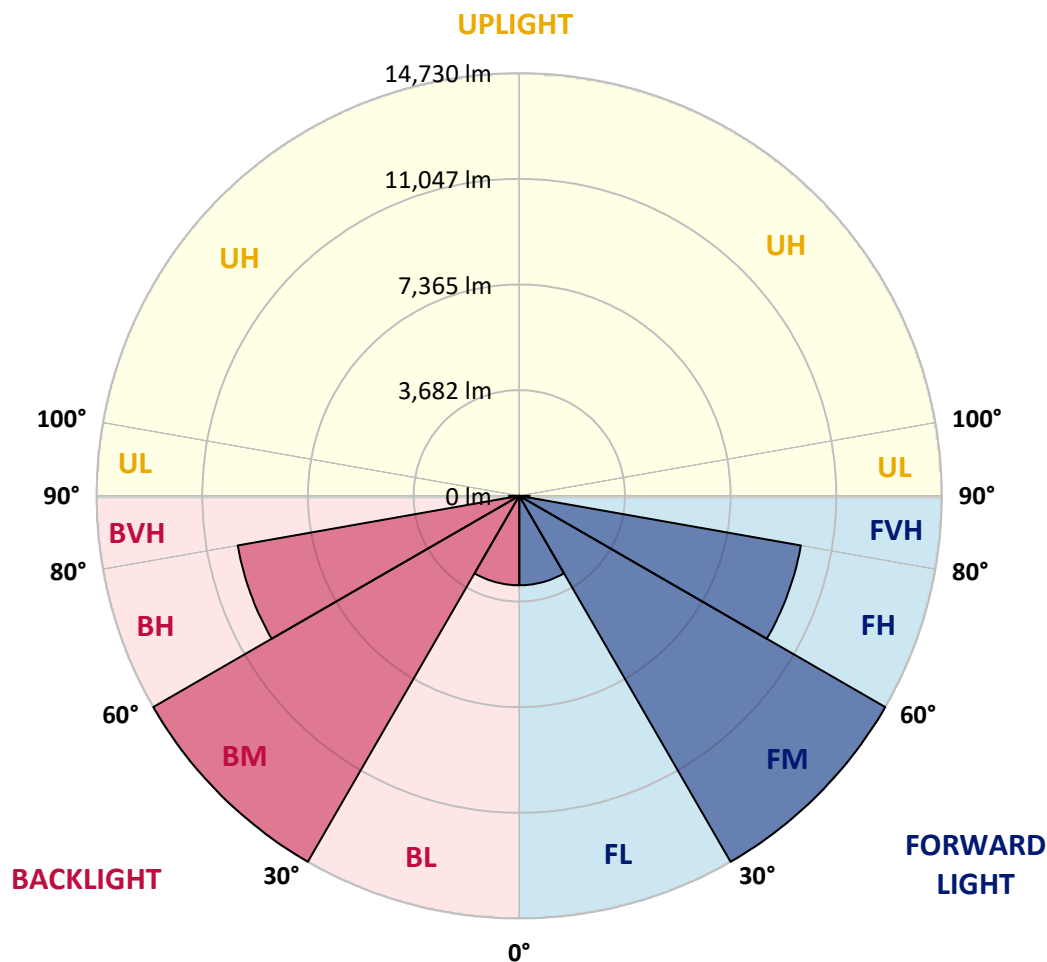
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3119.5	5.5			
FM	(30°-60°)	14729.7	26.1			
FH	(60°-80°)	9965.5	17.7			G4/12000
FVH	(80°-90°)	358.2	0.6			G3/500
BL	(0°-30°)	3119.5	5.5	B4/5000		
BM	(30°-60°)	14729.7	26.1	B5		
BH	(60°-80°)	9965.5	17.7	B5		G5
BVH	(80°-90°)	358.2	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°	5858.7	5858.7	5858.7	5858.7	5858.7	5858.7	5858.7	5858.7	5858.7	5858.7	5858.7
2.5°	5817.1	5819.0	5828.4	5839.8	5849.2	5873.8	5879.4	5888.9	5892.7	5902.1	5902.1
5°	5766.1	5769.9	5792.5	5822.8	5856.8	5917.2	5960.7	6009.8	6034.4	6060.8	6058.9
7.5°	5760.4	5769.9	5802.0	5851.1	5907.8	6007.9	6098.6	6196.8	6263.0	6323.4	6319.6
10°	5819.0	5834.1	5879.4	5953.1	6038.1	6162.8	6297.0	6429.2	6544.5	6637.0	6640.8
12.5°	5907.8	5926.7	5998.5	6109.9	6238.4	6399.0	6557.7	6706.9	6865.6	7003.6	7014.9
15°	6024.9	6049.5	6157.2	6323.4	6519.9	6710.7	6880.8	7033.8	7217.1	7407.9	7426.8
17.5°	6198.7	6232.7	6374.4	6599.3	6858.1	7067.8	7245.4	7360.6	7513.7	7710.2	7746.0
20°	6463.2	6506.7	6686.2	6954.4	7270.0	7489.1	7625.1	7649.7	7725.3	7901.0	7942.5
22.5°	6807.1	6844.9	7045.1	7364.4	7717.7	7955.8	8027.6	7929.3	7921.8	8063.4	8103.1
25°	7190.6	7224.6	7457.0	7816.0	8195.7	8458.3	8456.4	8265.6	8133.4	8242.9	8284.5
27.5°	7621.4	7674.3	7897.2	8275.0	8681.2	8940.1	8925.0	8630.2	8379.0	8407.3	8443.2
30°	8116.3	8174.9	8392.2	8775.7	9181.9	9435.1	9416.2	9027.0	8649.1	8573.6	8600.0
32.5°	8730.4	8800.3	9006.2	9384.1	9743.0	9971.6	9916.8	9457.7	8974.1	8809.7	8834.3
35°	9469.1	9510.6	9727.9	10100.1	10391.0	10547.9	10432.6	9956.5	9385.9	9187.6	9187.6
37.5°	10217.2	10249.3	10493.1	10853.9	11135.4	11218.5	10993.7	10502.5	9924.4	9642.9	9648.6
40°	10935.2	11022.1	11296.0	11666.3	11944.0	11966.7	11668.2	11126.0	10523.3	10232.3	10266.3
42.5°	11685.2	11770.2	12097.1	12516.5	12762.1	12799.9	12450.4	11825.0	11199.7	10963.5	11001.3
45°	12354.0	12422.0	12799.9	13287.3	13593.4	13691.6	13277.9	12626.1	11930.8	11700.3	11709.8
47.5°	12820.7	12909.5	13325.1	13899.4	14345.3	14496.4	14090.3	13406.3	12650.6	12371.0	12395.6
50°	13243.9	13291.1	13712.4	14339.6	14906.4	15218.2	14870.5	14177.2	13378.0	13081.4	13107.8
52.5°	13480.0	13540.5	13948.6	14602.2	15272.9	15775.5	15563.9	14870.5	14080.8	13791.7	13823.9
55°	13315.6	13361.0	13850.3	14660.8	15499.7	16119.3	16151.5	15548.8	14770.4	14517.2	14607.9
57.5°	12567.5	12624.2	13221.2	14283.0	15528.0	16351.7	16593.5	16177.9	15414.6	15208.7	15261.6
60°	11398.0	11433.9	12070.6	13264.6	14976.3	16448.1	16875.1	16691.8	16045.7	15839.7	15911.5
62.5°	9314.2	9367.1	10128.4	11728.7	13810.6	16162.8	17147.1	17116.9	16633.2	16444.3	16508.5
65°	6366.9	6459.4	7302.1	9325.5	12013.9	15289.9	17394.6	17611.9	17152.8	16914.7	16999.7
67.5°	3844.7	3912.7	4522.9	6157.2	9193.2	13529.1	17139.6	18174.9	17519.3	17135.8	17205.7
68°	3436.6	3498.9	4009.1	5556.4	8503.7	13032.3	16907.2	18239.1	17559.0	17132.0	17194.3
70°	2076.3	2117.9	2459.8	3434.7	5669.7	10338.1	15322.1	18186.2	17812.1	17184.9	17220.8
72.5°	1352.7	1365.9	1422.6	1762.7	2896.3	5781.2	11500.0	16946.8	18191.9	17492.8	17487.2
75°	1124.1	1116.6	1122.2	1161.9	1428.3	2535.4	6720.2	13387.4	17341.7	17007.3	16888.3
77.5°	950.3	944.6	942.8	944.6	956.0	1224.3	2917.0	8339.3	13270.3	15044.3	15150.1
80°	768.9	761.4	785.9	774.6	740.6	761.4	1222.4	3468.7	6255.4	6729.6	6306.4
82.5°	559.2	530.9	636.7	606.5	578.1	536.6	674.5	1120.3	1492.5	1024.0	719.8
85°	430.8	400.5	483.7	464.8	396.7	273.9	400.5	547.9	604.6	345.7	272.1
87.5°	175.7	185.1	349.5	275.8	232.4	132.2	164.4	219.2	294.7	147.4	113.4
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)