

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: P317249

Luminaire Tested: **GAN-SA5C-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317249
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-SA5C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26565 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 279
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

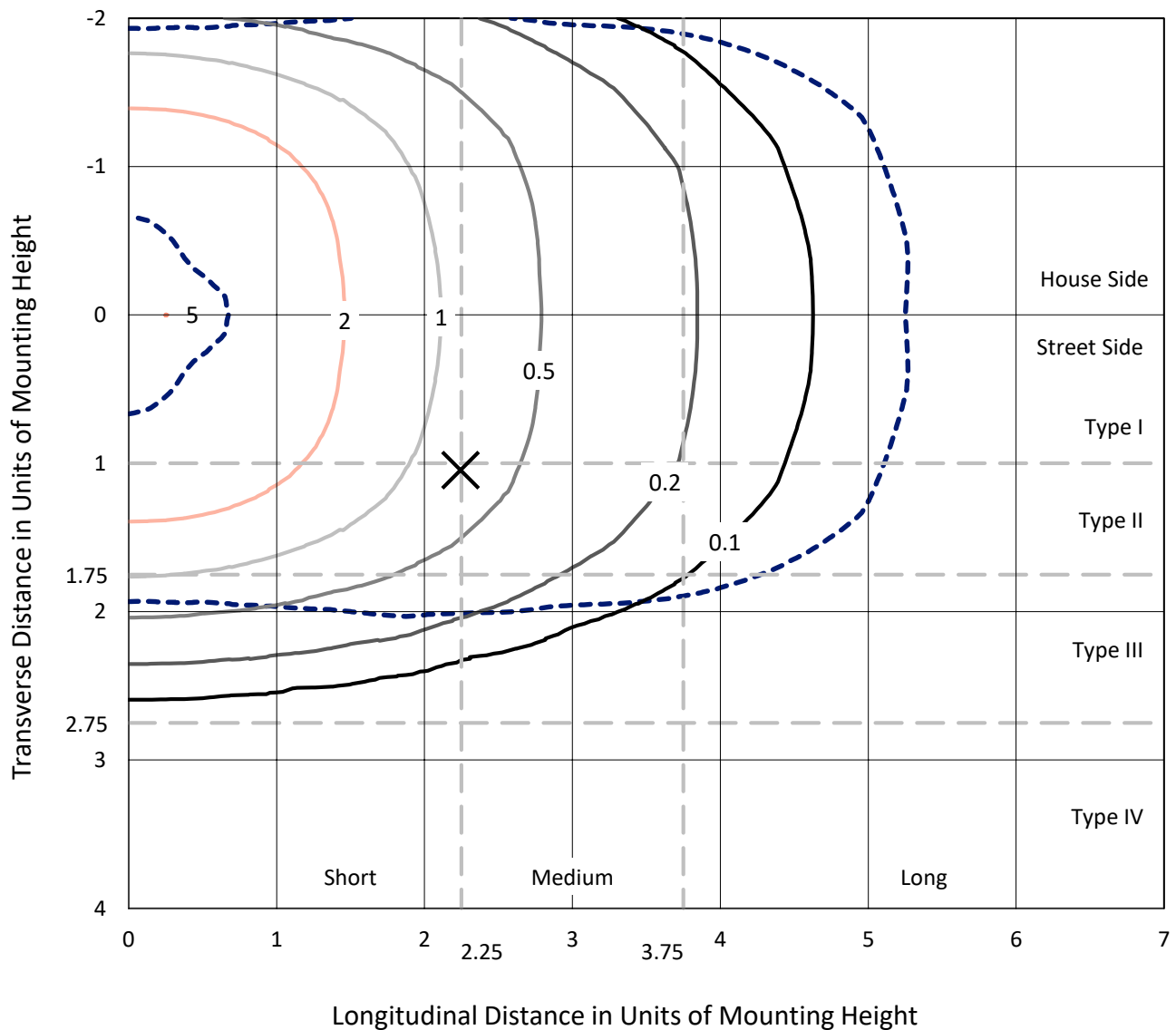


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Iso-Footcandle Lines of Horizontal Illumination

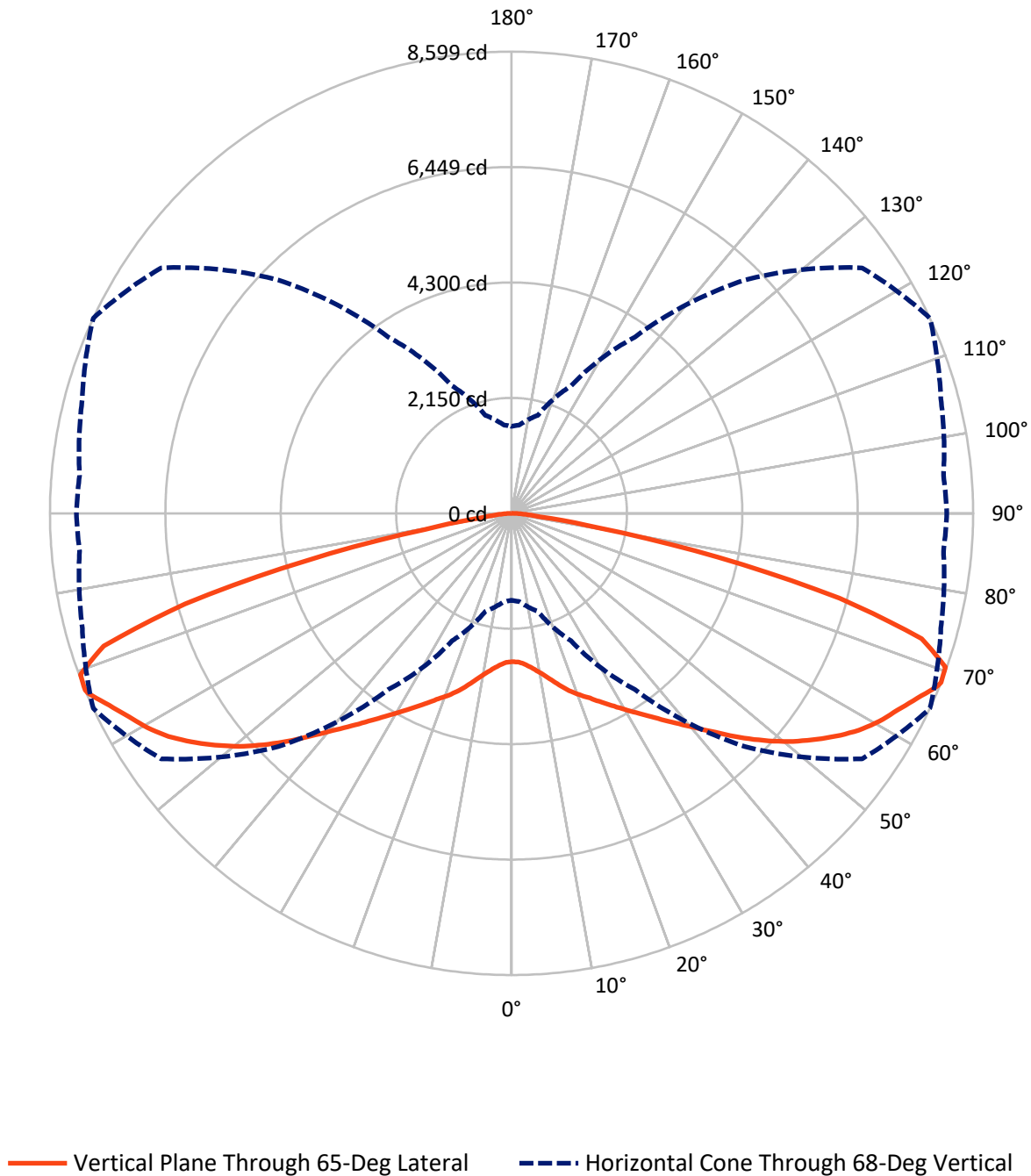
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	13282.5	0.0	13282.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13282.5	0.0	13282.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26565.0	0.0	26565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.0
10°-20°	905.5	3.4
20°-30°	1765.5	6.6
30°-40°	2966.0	11.2
40°-50°	4673.3	17.6
50°-60°	6249.8	23.5
60°-70°	6075.5	22.9
70°-80°	3321.2	12.5
80°-90°	337.8	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°	26565.0	100.0
0°-180°	26565.0	100.0

Coefficient of Utilization



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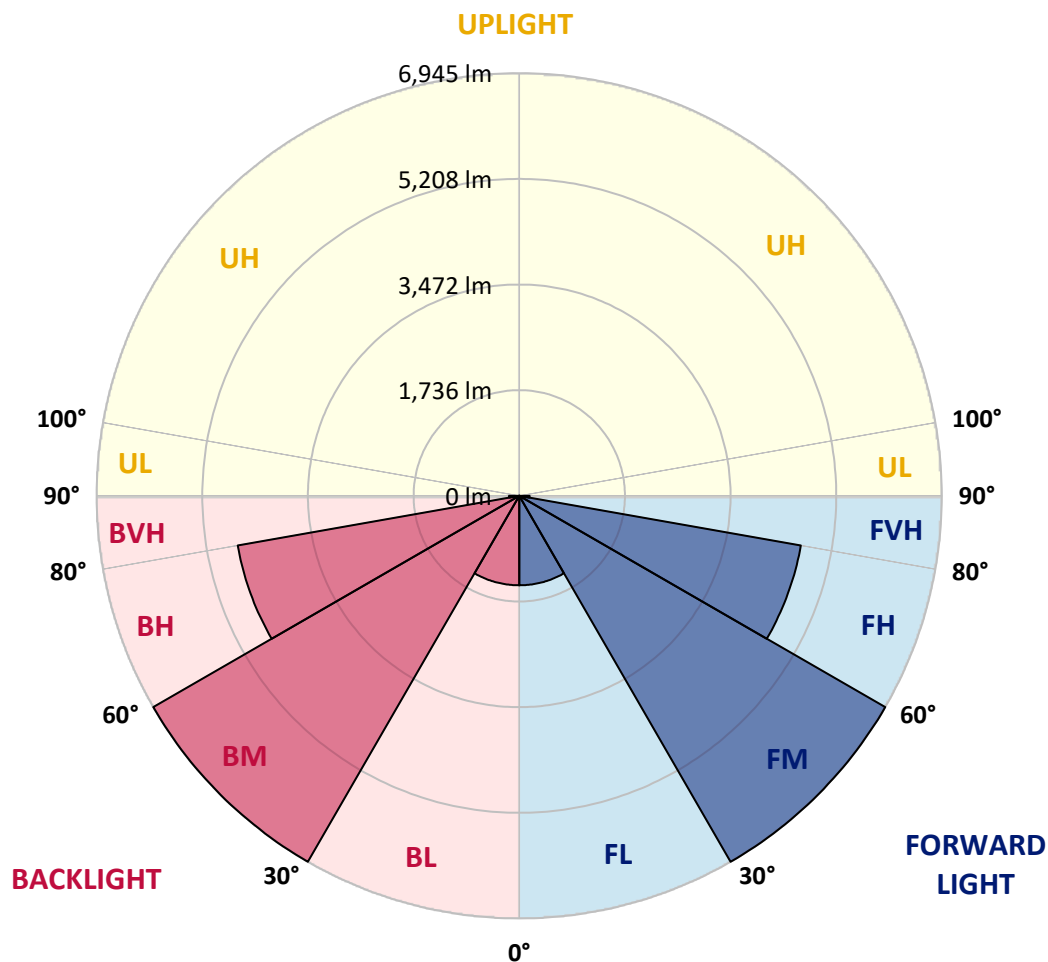
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.7	5.5			
FM	(30°-60°)	6944.5	26.1			
FH	(60°-80°)	4698.4	17.7			G2/5000
FVH	(80°-90°)	168.9	0.6			G2/225
BL	(0°-30°)	1470.7	5.5	B3/2500		
BM	(30°-60°)	6944.5	26.1	B4/8500		
BH	(60°-80°)	4698.4	17.7	B4/5000		G4/5000
BVH	(80°-90°)	168.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1
2.5°	2742.5	2743.4	2747.9	2753.2	2757.7	2769.3	2771.9	2776.4	2778.2	2782.6	2782.6
5°	2718.5	2720.3	2731.0	2745.2	2761.2	2789.7	2810.2	2833.4	2845.0	2857.4	2856.6
7.5°	2715.8	2720.3	2735.4	2758.6	2785.3	2832.5	2875.3	2921.6	2952.7	2981.3	2979.5
10°	2743.4	2750.6	2771.9	2806.7	2846.8	2905.5	2968.8	3031.1	3085.5	3129.1	3130.9
12.5°	2785.3	2794.2	2828.0	2880.6	2941.2	3016.9	3091.7	3162.1	3236.9	3301.9	3307.3
15°	2840.5	2852.1	2902.9	2981.3	3073.9	3163.9	3244.0	3316.2	3402.6	3492.5	3501.4
17.5°	2922.5	2938.5	3005.3	3111.3	3233.3	3332.2	3415.9	3470.3	3542.4	3635.0	3652.0
20°	3047.2	3067.7	3152.3	3278.8	3427.5	3530.8	3595.0	3606.5	3642.2	3725.0	3744.6
22.5°	3209.3	3227.1	3321.5	3472.0	3638.6	3750.8	3784.7	3738.4	3734.8	3801.6	3820.3
25°	3390.1	3406.1	3515.7	3684.9	3864.0	3987.8	3986.9	3896.9	3834.6	3886.2	3905.8
27.5°	3593.2	3618.1	3723.2	3901.4	4092.9	4214.9	4207.8	4068.8	3950.4	3963.7	3980.6
30°	3826.6	3854.2	3956.6	4137.4	4328.9	4448.3	4439.4	4255.9	4077.7	4042.1	4054.6
32.5°	4116.0	4149.0	4246.1	4424.2	4593.5	4701.2	4675.4	4459.0	4230.9	4153.4	4165.0
35°	4464.3	4483.9	4586.3	4761.8	4899.0	4972.9	4918.6	4694.1	4425.1	4331.6	4331.6
37.5°	4817.0	4832.2	4947.1	5117.2	5249.9	5289.1	5183.1	4951.5	4679.0	4546.3	4548.9
40°	5155.5	5196.5	5325.6	5500.2	5631.2	5641.8	5501.1	5245.5	4961.3	4824.2	4840.2
42.5°	5509.1	5549.2	5703.3	5901.0	6016.8	6034.7	5869.9	5575.0	5280.2	5168.9	5186.7
45°	5824.4	5856.5	6034.7	6264.5	6408.8	6455.1	6260.0	5952.7	5624.9	5516.3	5520.7
47.5°	6044.5	6086.3	6282.3	6553.1	6763.3	6834.5	6643.0	6320.6	5964.3	5832.5	5844.0
50°	6244.0	6266.2	6464.9	6760.6	7027.8	7174.8	7010.9	6684.0	6307.2	6167.4	6179.8
52.5°	6355.3	6383.8	6576.2	6884.4	7200.6	7437.5	7337.8	7010.9	6638.6	6502.3	6517.4
55°	6277.8	6299.2	6529.9	6912.0	7307.5	7599.7	7614.8	7330.7	6963.7	6844.3	6887.1
57.5°	5925.1	5951.8	6233.3	6733.9	7320.9	7709.2	7823.2	7627.3	7267.4	7170.3	7195.3
60°	5373.7	5390.7	5690.8	6253.8	7060.8	7754.6	7955.9	7869.5	7564.9	7467.8	7501.7
62.5°	4391.3	4416.2	4775.2	5529.6	6511.2	7620.1	8084.2	8070.0	7841.9	7752.9	7783.1
65°	3001.7	3045.4	3442.6	4396.6	5664.1	7208.6	8200.9	8303.3	8086.9	7974.7	8014.7
67.5°	1812.6	1844.7	2132.4	2902.9	4334.3	6378.5	8080.6	8568.8	8259.7	8078.9	8111.8
68°	1620.2	1649.6	1890.1	2619.6	4009.1	6144.2	7971.1	8599.0	8278.4	8077.1	8106.5
70°	978.9	998.5	1159.7	1619.3	2673.1	4874.0	7223.8	8574.1	8397.7	8102.0	8118.9
72.5°	637.8	644.0	670.7	831.0	1365.5	2725.6	5421.8	7989.8	8576.8	8247.2	8244.5
75°	530.0	526.4	529.1	547.8	673.4	1195.4	3168.3	6311.7	8176.0	8018.3	7962.2
77.5°	448.0	445.4	444.5	445.4	450.7	577.2	1375.3	3931.7	6256.4	7092.8	7142.7
80°	362.5	359.0	370.5	365.2	349.2	359.0	576.3	1635.4	2949.2	3172.8	2973.2
82.5°	263.7	250.3	300.2	285.9	272.6	253.0	318.0	528.2	703.7	482.8	339.4
85°	203.1	188.8	228.0	219.1	187.1	129.2	188.8	258.3	285.0	163.0	128.3
87.5°	82.8	87.3	164.8	130.0	109.6	62.4	77.5	103.3	139.0	69.5	53.4
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)