

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: P316092

Luminaire Tested: **GAN-SA8C-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316092
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-SA8C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49934 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

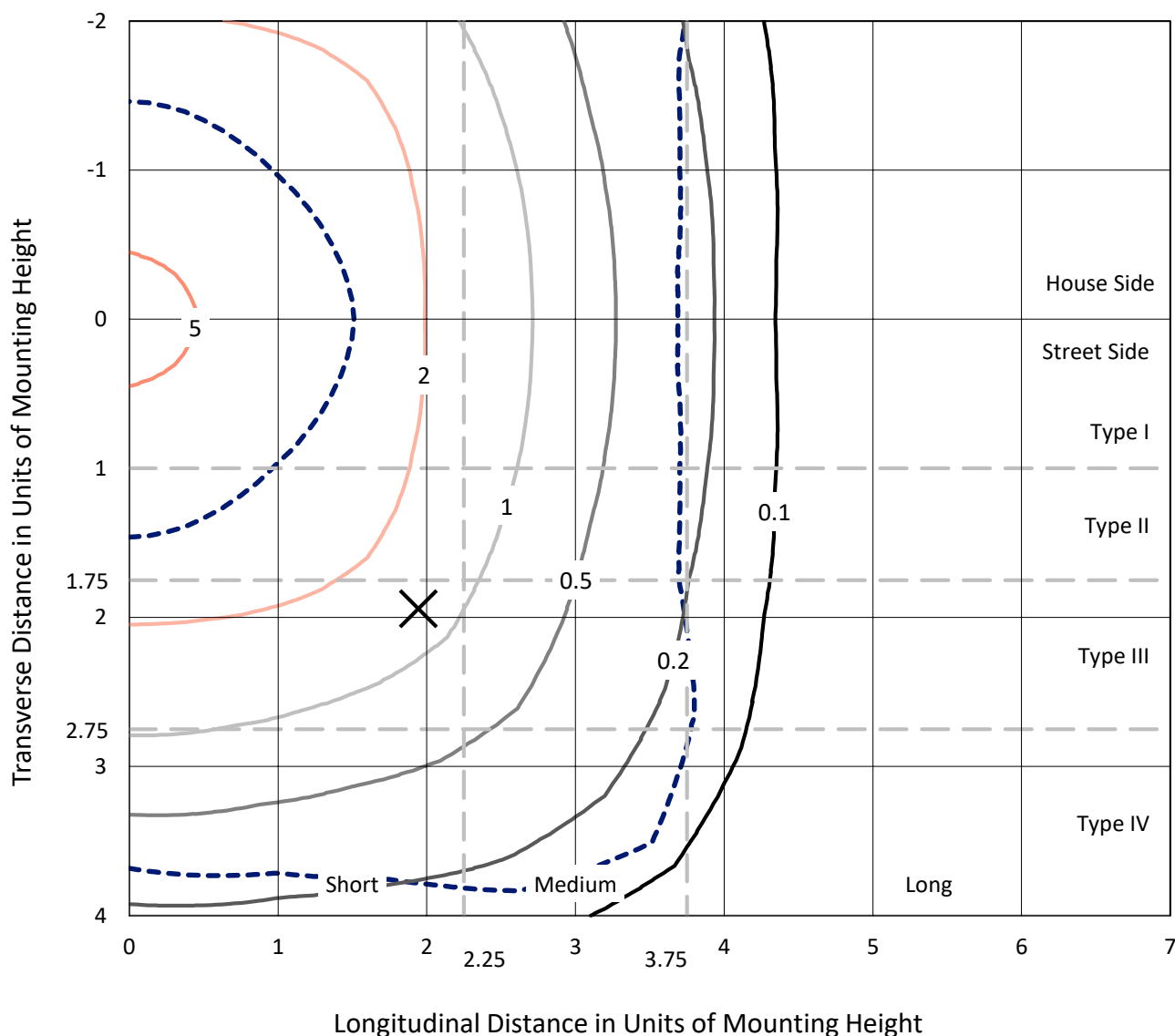
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

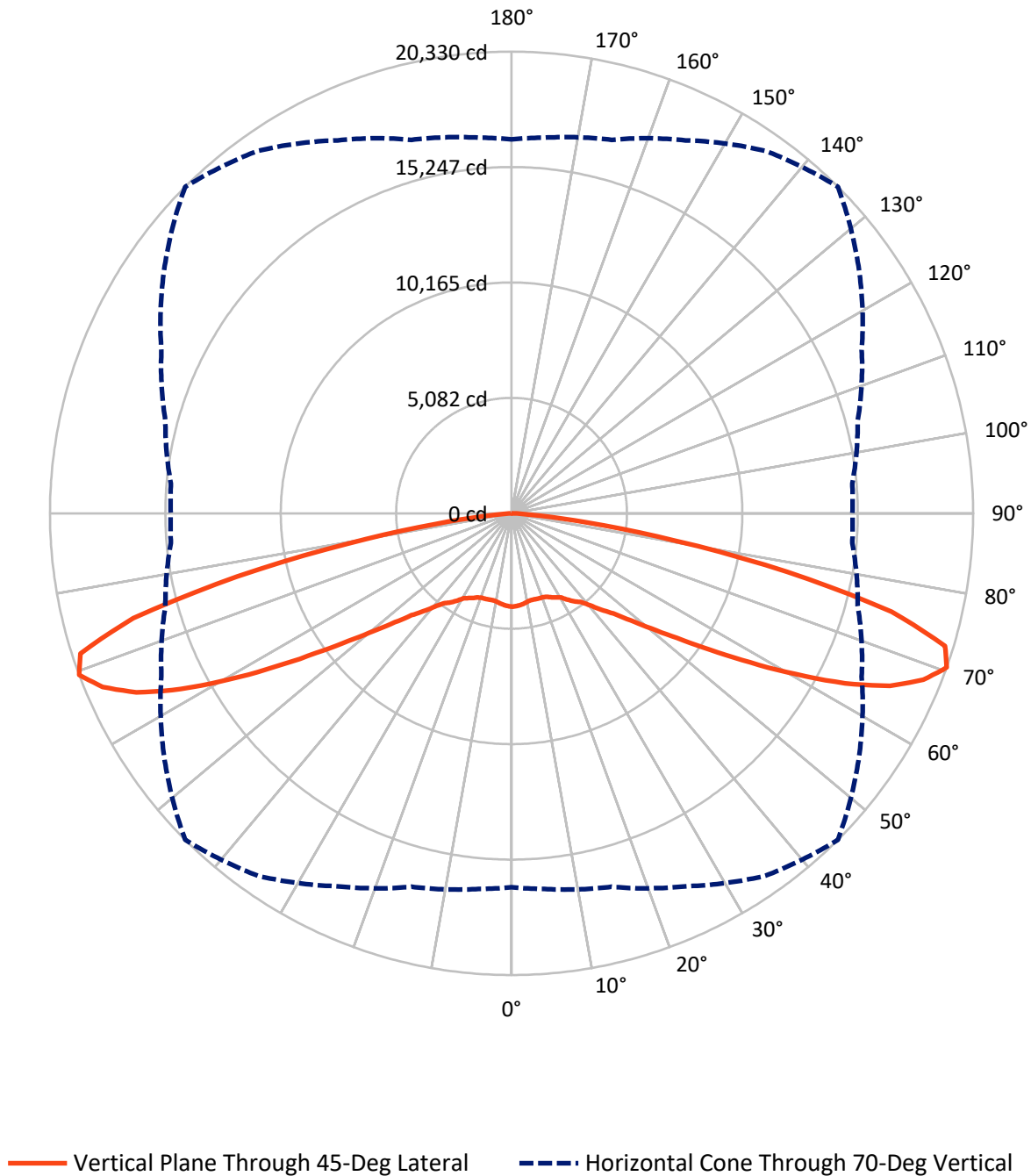
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	24967.0	0.0	24967.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24967.0	0.0	24967.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49934.0	0.0	49934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.6	0.8
10°-20°	1120.4	2.2
20°-30°	1910.2	3.8
30°-40°	2984.8	6.0
40°-50°	5058.5	10.1
50°-60°	9224.6	18.5
60°-70°	15880.8	31.8
70°-80°	12448.0	24.9
80°-90°	923.0	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°	49934.0	100.0
0°-180°	49934.0	100.0

Coefficient of Utilization



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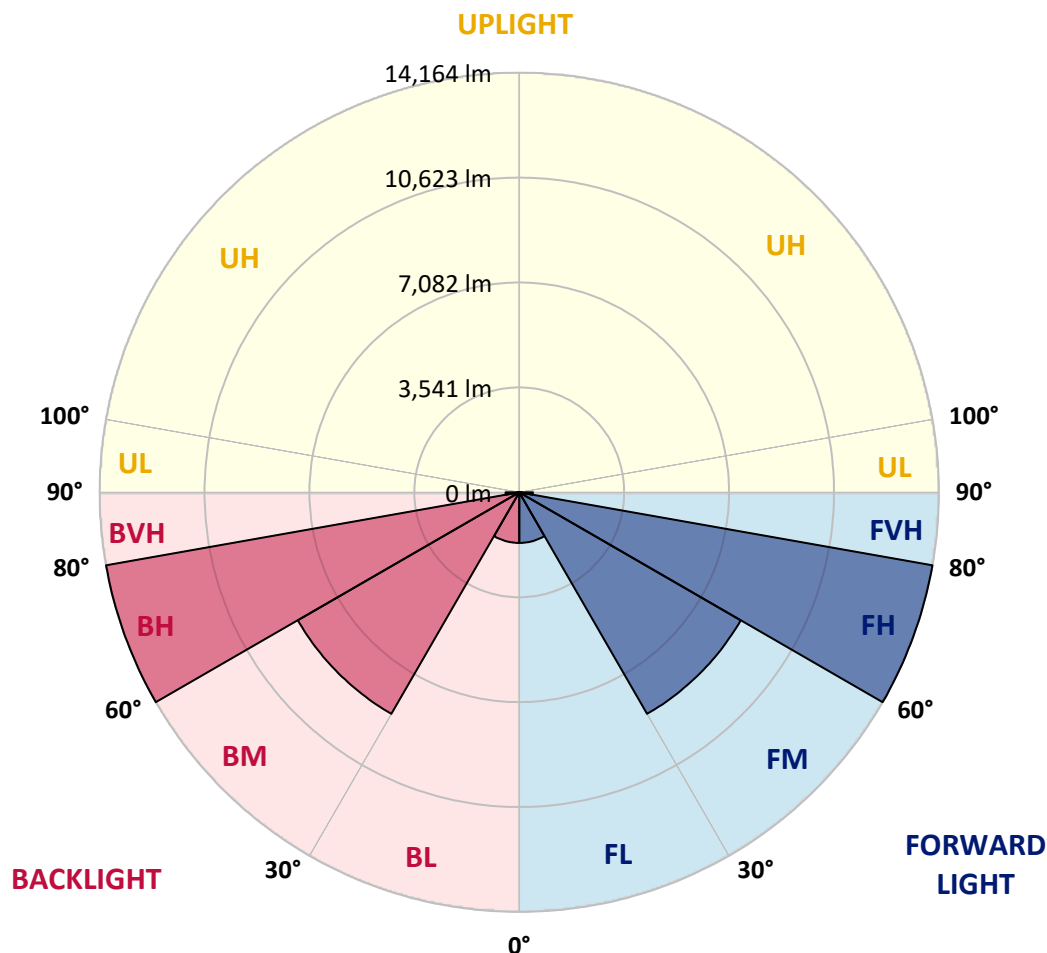
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1707.1	3.4			
FM	(30°-60°)	8634.0	17.3			
FH	(60°-80°)	14164.4	28.4			G5
FVH	(80°-90°)	461.5	0.9			G3/500
BL	(0°-30°)	1707.1	3.4	B3/2500		
BM	(30°-60°)	8634.0	17.3	B5		
BH	(60°-80°)	14164.4	28.4	B5		G5
BVH	(80°-90°)	461.5	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°	4109.6	4109.6	4109.6	4109.6	4109.6	4109.6	4109.6	4109.6	4109.6	4109.6	4109.6
2.5°	4091.4	4096.4	4091.4	4094.7	4086.5	4089.8	4089.8	4089.8	4088.1	4089.8	4086.5
5°	4055.1	4058.4	4051.8	4055.1	4050.1	4055.1	4056.7	4055.1	4051.8	4053.4	4046.8
7.5°	4000.6	4003.9	3998.9	4003.9	3997.3	4005.5	4003.9	3998.9	3994.0	3994.0	3987.3
10°	3970.8	3972.5	3959.3	3954.3	3939.4	3942.7	3947.7	3952.7	3957.6	3967.5	3965.9
12.5°	3972.5	3972.5	3952.7	3931.2	3909.7	3914.7	3922.9	3941.1	3960.9	3979.1	3980.7
15°	3989.0	3987.3	3957.6	3922.9	3908.1	3922.9	3927.9	3939.4	3970.8	4002.2	4003.9
17.5°	4000.6	4000.6	3954.3	3914.7	3913.0	3936.1	3934.5	3939.4	3974.1	4020.4	4022.0
20°	4022.0	4022.0	3962.6	3919.6	3919.6	3944.4	3946.1	3954.3	3989.0	4040.2	4048.5
22.5°	4069.9	4071.6	4008.8	3974.1	3977.4	3992.3	3997.3	4010.5	4041.9	4098.0	4107.9
25°	4137.7	4141.0	4076.5	4056.7	4068.3	4096.4	4093.1	4103.0	4137.7	4192.2	4202.1
27.5°	4231.8	4223.5	4164.1	4155.8	4167.4	4187.2	4185.6	4187.2	4215.3	4264.8	4276.4
30°	4354.0	4350.7	4307.8	4312.7	4307.8	4301.2	4302.8	4316.0	4330.9	4370.6	4382.1
32.5°	4473.0	4476.3	4449.8	4474.6	4511.0	4535.7	4497.7	4461.4	4444.9	4466.4	4476.3
35°	4687.7	4695.9	4654.7	4638.1	4687.7	4760.4	4653.0	4593.5	4626.6	4654.7	4662.9
37.5°	5052.7	5057.7	4988.3	4922.2	4885.9	4955.3	4847.9	4852.9	4968.5	5021.3	5019.7
40°	5469.0	5470.6	5424.4	5366.6	5303.8	5320.3	5277.4	5290.6	5366.6	5414.5	5427.7
42.5°	5964.5	5959.5	5886.9	5804.3	5786.1	5802.6	5730.0	5720.0	5807.6	5893.5	5895.1
45°	6607.0	6595.5	6501.3	6410.5	6322.9	6286.6	6268.4	6316.3	6436.9	6516.2	6517.8
47.5°	7299.1	7267.7	7218.2	7145.5	7069.5	7033.2	7003.5	7026.6	7114.1	7145.5	7148.8
50°	8011.0	8017.6	8027.5	7999.5	7971.4	7959.8	7882.2	7837.6	7864.0	7806.2	7798.0
52.5°	8855.1	8868.3	8964.1	9045.0	9092.9	9117.7	8970.7	8817.1	8731.2	8618.9	8585.8
55°	9851.1	9872.6	10013.0	10237.6	10468.8	10591.1	10325.1	10037.7	9771.8	9562.0	9494.3
57.5°	10961.1	10999.1	11192.3	11623.4	12097.5	12386.5	11937.3	11415.3	10901.6	10599.3	10546.5
60°	12262.7	12299.0	12566.6	13184.3	13952.4	14386.8	13706.3	12852.3	12213.1	11924.0	11826.6
62.5°	13812.0	13815.3	14144.0	14865.8	15880.0	16484.5	15562.9	14421.5	13762.5	13413.9	13319.8
65°	15478.6	15486.9	15827.1	16606.8	17655.6	18313.0	17272.4	16083.2	15277.1	14763.4	14690.7
67.5°	16656.3	16691.0	17049.5	17987.6	18968.8	19561.8	18484.8	17140.3	16208.7	15595.9	15534.8
70°	16468.0	16603.5	17024.7	18119.8	19484.1	20329.8	18681.4	17014.8	15785.9	15062.4	15011.2
72.5°	14362.0	14621.4	15183.0	16620.0	18802.0	19966.5	17609.4	15239.1	13848.3	13232.2	13139.7
75°	9780.1	10201.3	11048.6	13121.6	16063.4	17287.3	14824.5	12150.3	10842.1	9989.8	9927.1
77.5°	4360.6	4456.4	5530.1	7916.9	11085.0	12414.6	10771.1	7948.3	5966.2	4758.7	4504.3
80°	1215.7	1230.6	1641.8	2948.4	5548.3	7294.2	5956.2	3097.0	1741.0	1227.3	1156.2
82.5°	386.5	419.5	512.0	764.8	1864.8	3328.3	1914.4	825.9	588.0	469.1	422.9
85°	188.3	186.6	259.3	310.5	475.7	736.7	507.1	383.2	335.3	223.0	201.5
87.5°	79.3	80.9	120.6	109.0	138.7	118.9	163.5	171.8	180.0	99.1	85.9
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)