

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: P316102

Luminaire Tested: **GAN-SA8D-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316102
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-SA8D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54776 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

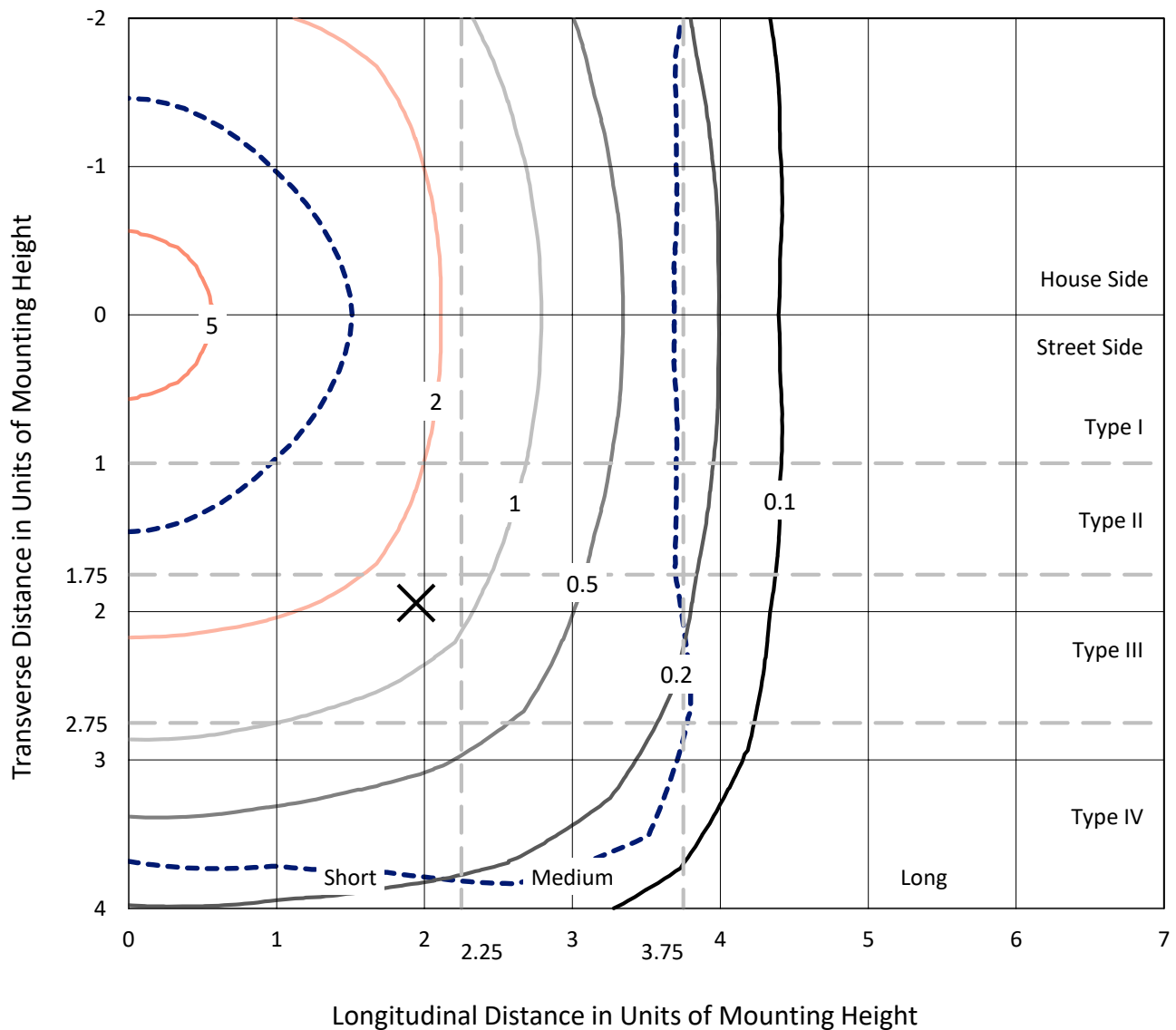
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

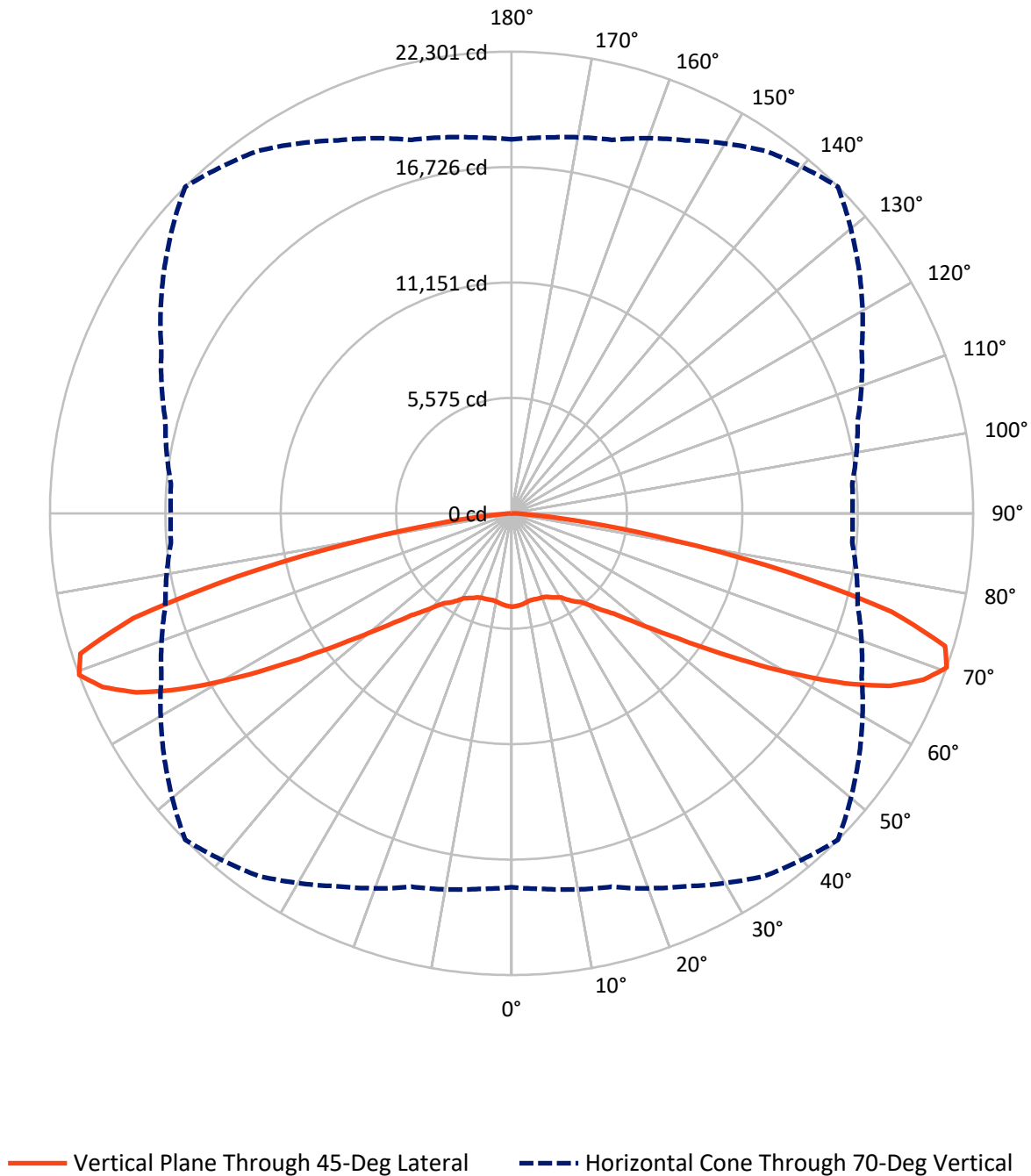
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	27388.0	0.0	27388.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27388.0	0.0	27388.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54776.0	0.0	54776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.8	0.8
10°-20°	1229.0	2.2
20°-30°	2095.5	3.8
30°-40°	3274.2	6.0
40°-50°	5549.1	10.1
50°-60°	10119.1	18.5
60°-70°	17420.8	31.8
70°-80°	13655.1	24.9
80°-90°	1012.5	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°	54776.0	100.0
0°-180°	54776.0	100.0

Coefficient of Utilization



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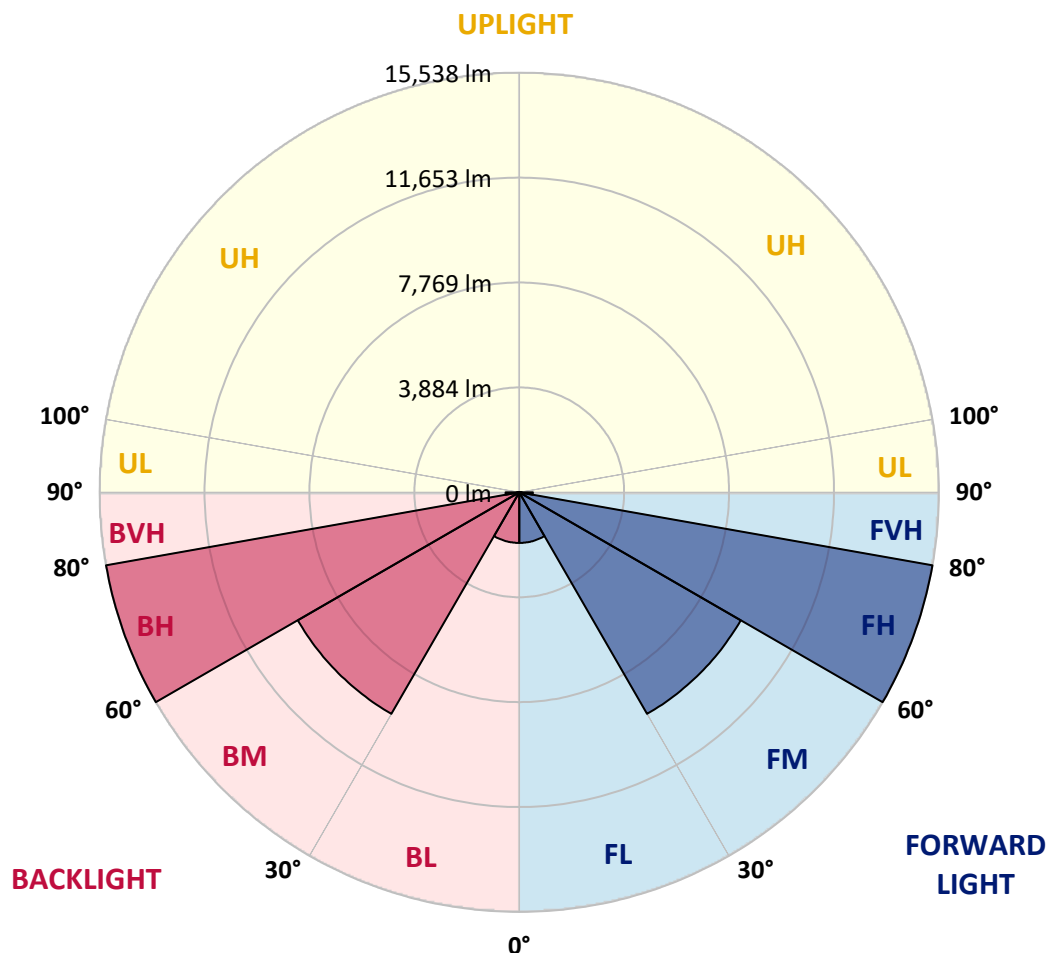
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1872.6	3.4			
FM	(30°-60°)	9471.2	17.3			
FH	(60°-80°)	15537.9	28.4			G5
FVH	(80°-90°)	506.3	0.9			G4/750
BL	(0°-30°)	1872.6	3.4	B3/2500		
BM	(30°-60°)	9471.2	17.3	B5		
BH	(60°-80°)	15537.9	28.4	B5		G5
BVH	(80°-90°)	506.3	0.9			G4/750
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°	4508.1	4508.1	4508.1	4508.1	4508.1	4508.1	4508.1	4508.1	4508.1	4508.1	4508.1
2.5°	4488.1	4493.6	4488.1	4491.8	4482.7	4486.3	4486.3	4486.3	4484.5	4486.3	4482.7
5°	4448.3	4451.9	4444.7	4448.3	4442.8	4448.3	4450.1	4448.3	4444.7	4446.5	4439.2
7.5°	4388.5	4392.1	4386.7	4392.1	4384.9	4393.9	4392.1	4386.7	4381.2	4381.2	4374.0
10°	4355.9	4357.7	4343.2	4337.8	4321.4	4325.1	4330.5	4335.9	4341.4	4352.2	4350.4
12.5°	4357.7	4357.7	4335.9	4312.4	4288.8	4294.3	4303.3	4323.3	4345.0	4364.9	4366.7
15°	4375.8	4374.0	4341.4	4303.3	4287.0	4303.3	4308.8	4321.4	4355.9	4390.3	4392.1
17.5°	4388.5	4388.5	4337.8	4294.3	4292.5	4317.8	4316.0	4321.4	4359.5	4410.2	4412.0
20°	4412.0	4412.0	4346.8	4299.7	4299.7	4326.9	4328.7	4337.8	4375.8	4432.0	4441.0
22.5°	4464.6	4466.4	4397.5	4359.5	4363.1	4379.4	4384.9	4399.4	4433.8	4495.4	4506.3
25°	4538.9	4542.5	4471.8	4450.1	4462.8	4493.6	4490.0	4500.8	4538.9	4598.7	4609.5
27.5°	4642.2	4633.1	4567.9	4558.8	4571.5	4593.2	4591.4	4593.2	4624.0	4678.4	4691.1
30°	4776.2	4772.6	4725.5	4730.9	4725.5	4718.3	4720.1	4734.6	4750.9	4794.4	4807.0
32.5°	4906.7	4910.3	4881.3	4908.5	4948.4	4975.5	4933.9	4894.0	4875.9	4899.4	4910.3
35°	5142.2	5151.3	5106.0	5087.9	5142.2	5222.0	5104.2	5039.0	5075.2	5106.0	5115.1
37.5°	5542.7	5548.1	5472.0	5399.5	5359.7	5435.8	5318.0	5323.4	5450.3	5508.3	5506.4
40°	5999.3	6001.1	5950.4	5886.9	5818.1	5836.2	5789.1	5803.6	5886.9	5939.5	5954.0
42.5°	6542.9	6537.4	6457.7	6367.1	6347.2	6365.3	6285.6	6274.7	6370.7	6465.0	6466.8
45°	7247.7	7235.0	7131.7	7032.1	6936.1	6896.2	6876.3	6928.8	7061.1	7148.0	7149.9
47.5°	8006.9	7972.5	7918.1	7838.4	7755.0	7715.2	7682.6	7707.9	7804.0	7838.4	7842.0
50°	8787.8	8795.1	8806.0	8775.2	8744.4	8731.7	8646.5	8597.6	8626.6	8563.2	8554.1
52.5°	9713.7	9728.2	9833.3	9922.1	9974.7	10001.8	9840.6	9672.1	9577.8	9454.6	9418.4
55°	10806.3	10829.9	10983.9	11230.3	11484.0	11618.1	11326.4	11011.1	10719.4	10489.2	10415.0
57.5°	12023.9	12065.6	12277.6	12750.5	13270.5	13587.6	13094.8	12522.2	11958.7	11627.1	11569.1
60°	13451.7	13491.6	13785.1	14462.8	15305.3	15781.9	15035.4	14098.6	13397.4	13080.3	12973.4
62.5°	15151.3	15155.0	15515.5	16307.3	17419.9	18083.0	17072.0	15819.9	15097.0	14714.7	14611.4
65°	16979.6	16988.6	17361.9	18217.1	19367.7	20088.8	18947.3	17642.7	16758.5	16195.0	16115.3
67.5°	18271.5	18309.5	18702.7	19731.9	20808.2	21458.6	20277.3	18802.4	17780.4	17108.2	17041.2
70°	18064.9	18213.5	18675.5	19876.8	21373.5	22301.2	20492.9	18664.7	17316.6	16523.0	16466.8
72.5°	15754.7	16039.2	16655.2	18231.6	20625.2	21902.6	19316.9	16716.8	15191.2	14515.3	14413.9
75°	10728.4	11190.5	12120.0	14393.9	17621.0	18963.6	16262.0	13328.5	11893.5	10958.5	10889.7
77.5°	4783.5	4888.6	6066.3	8684.6	12159.8	13618.4	11815.6	8719.0	6544.7	5220.2	4941.1
80°	1333.6	1349.9	1801.1	3234.3	6086.3	8001.5	6533.8	3397.4	1909.8	1346.3	1268.3
82.5°	424.0	460.2	561.7	838.9	2045.7	3651.0	2100.0	906.0	645.0	514.6	463.9
85°	206.6	204.7	284.5	340.6	521.8	808.1	556.3	420.4	367.8	244.6	221.1
87.5°	87.0	88.8	132.3	119.6	152.2	130.5	179.4	188.4	197.5	108.7	94.2
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)