

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: P316402

Luminaire Tested: **GAN-SA8B-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40236 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 334
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

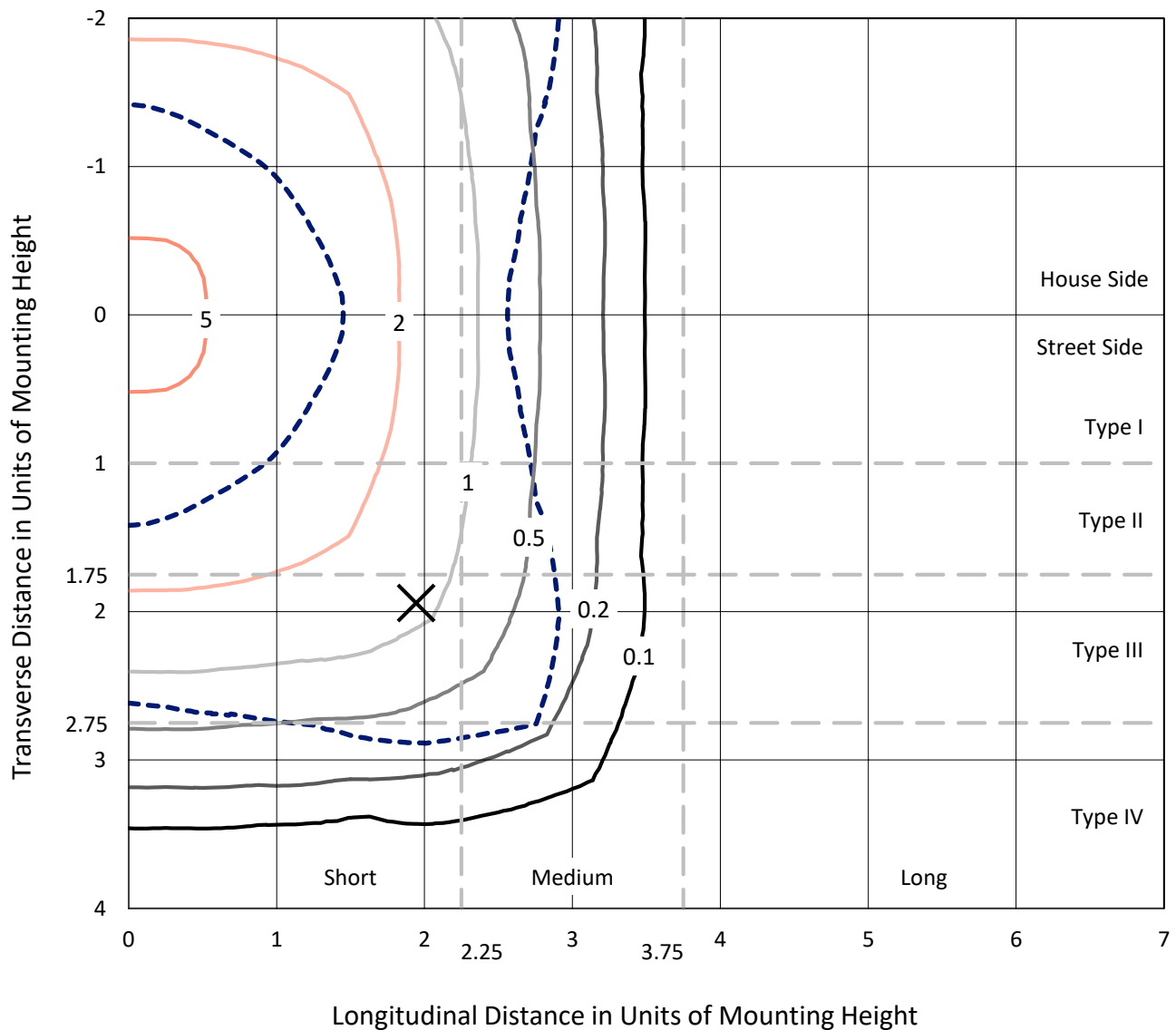


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Iso-Footcandle Lines of Horizontal Illumination

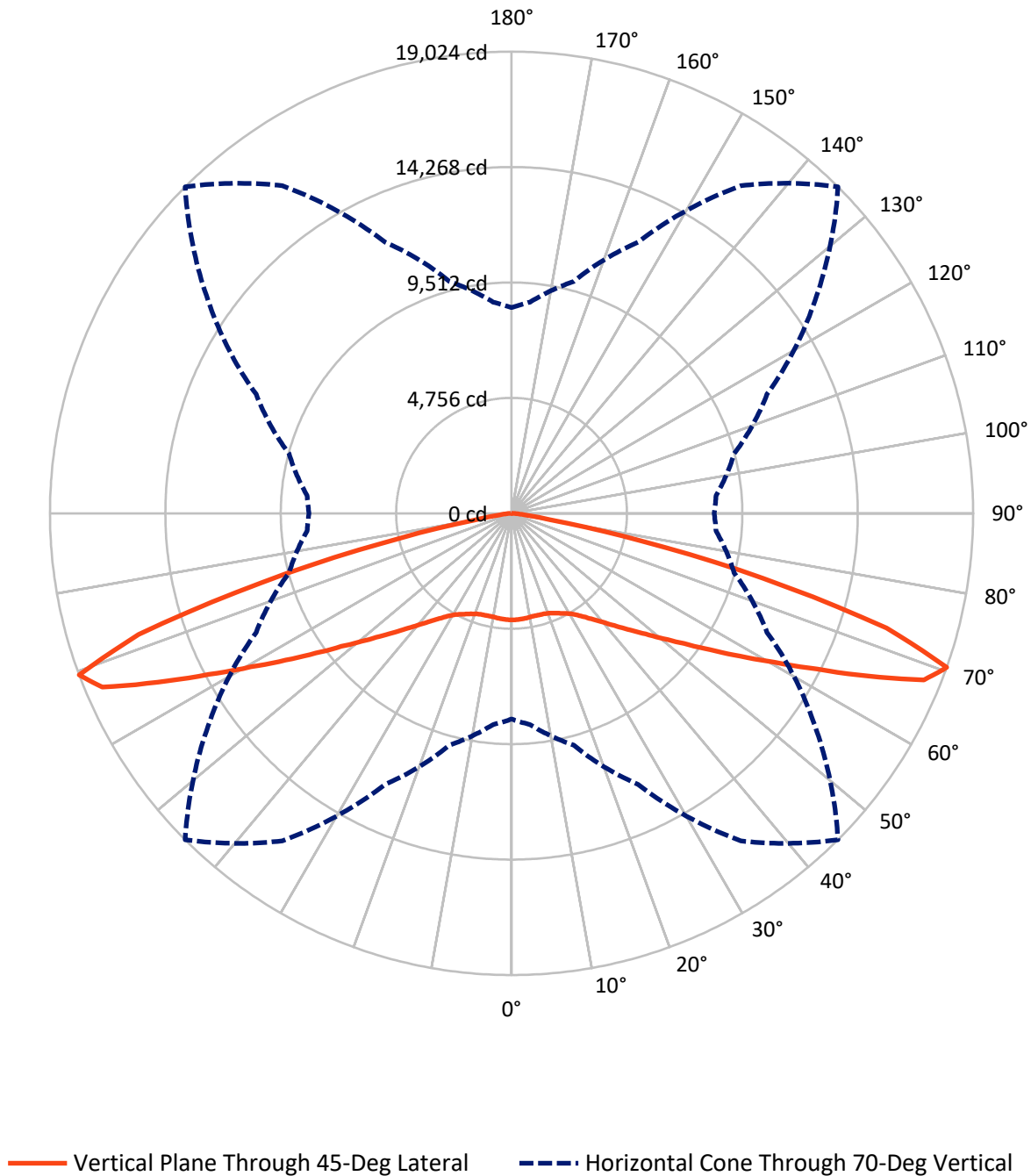
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	20118.0	0.0	20118.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20118.0	0.0	20118.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40236.0	0.0	40236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.2	1.0
10°-20°	1221.8	3.0
20°-30°	2080.0	5.2
30°-40°	3298.8	8.2
40°-50°	5368.2	13.3
50°-60°	8851.2	22.0
60°-70°	12993.8	32.3
70°-80°	5745.8	14.3
80°-90°	260.2	0.6
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°	40236.0	100.0
0°-180°	40236.0	100.0

Coefficient of Utilization



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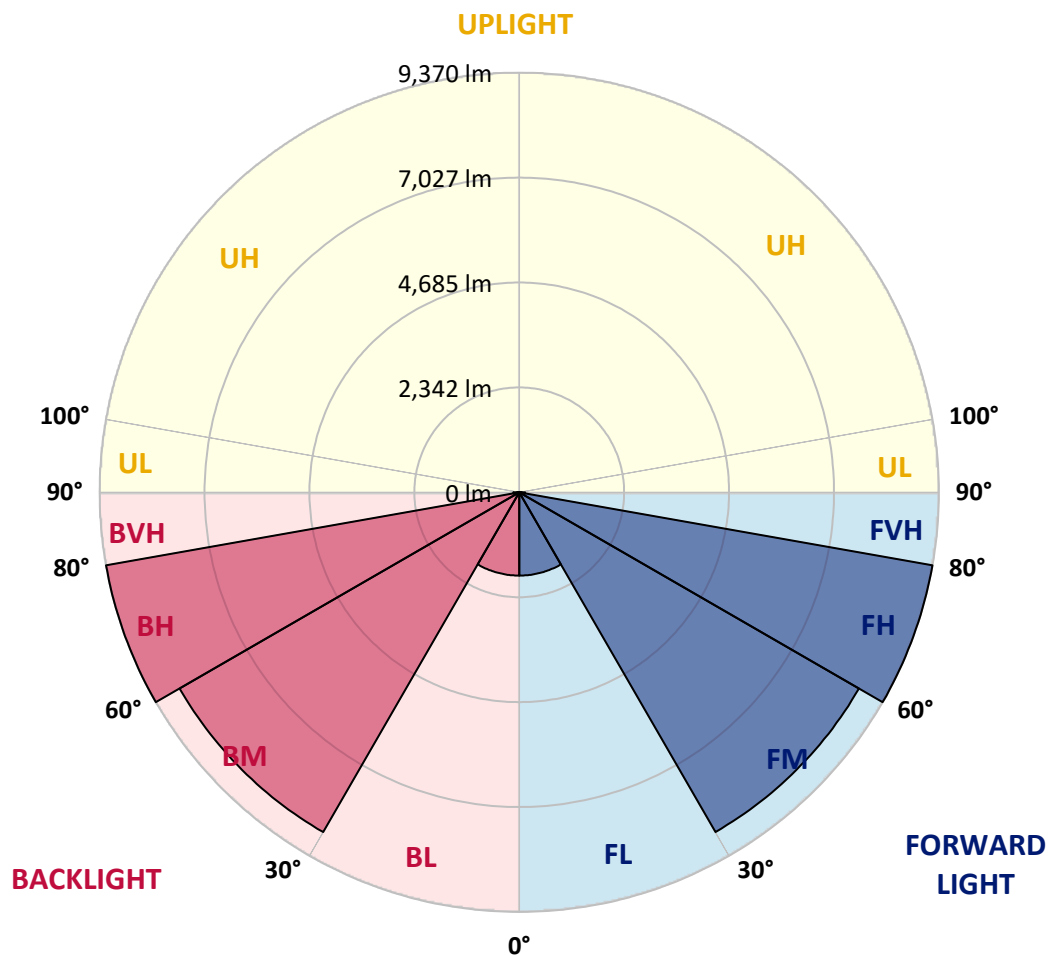
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1859.0	4.6			
FM	(30°-60°)	8759.1	21.8			
FH	(60°-80°)	9369.8	23.3			G4/12000
FVH	(80°-90°)	130.1	0.3			G2/225
BL	(0°-30°)	1859.0	4.6	B3/2500		
BM	(30°-60°)	8759.1	21.8	B5		
BH	(60°-80°)	9369.8	23.3	B5		G4/12000
BVH	(80°-90°)	130.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4
2.5°	4387.7	4383.7	4393.1	4391.7	4383.7	4385.1	4385.1	4389.1	4389.1	4386.4	4386.4
5°	4371.8	4369.1	4379.7	4379.7	4371.8	4374.4	4377.1	4381.1	4379.7	4377.1	4375.8
7.5°	4351.8	4350.5	4361.1	4361.1	4355.8	4358.4	4355.8	4357.1	4354.4	4351.8	4347.8
10°	4318.5	4321.2	4330.5	4333.1	4333.1	4334.5	4331.8	4325.2	4321.2	4317.2	4313.2
12.5°	4287.9	4286.5	4299.9	4306.5	4317.2	4329.1	4321.2	4302.5	4294.5	4286.5	4283.9
15°	4267.9	4269.2	4282.5	4294.5	4313.2	4338.5	4329.1	4299.9	4283.9	4274.6	4271.9
17.5°	4263.9	4266.6	4283.9	4305.2	4325.2	4353.1	4347.8	4318.5	4291.9	4274.6	4270.6
20°	4273.2	4274.6	4301.2	4331.8	4366.4	4393.1	4381.1	4349.1	4313.2	4286.5	4279.9
22.5°	4290.5	4295.9	4329.1	4377.1	4430.4	4466.3	4451.7	4397.1	4341.1	4307.8	4298.5
25°	4345.1	4346.5	4391.7	4457.0	4520.9	4562.2	4544.9	4467.6	4395.7	4358.4	4346.5
27.5°	4458.3	4462.3	4507.6	4583.5	4638.1	4664.7	4654.1	4591.5	4530.2	4490.3	4494.3
30°	4622.1	4627.4	4678.0	4761.9	4795.2	4801.9	4799.2	4769.9	4714.0	4660.7	4664.7
32.5°	4821.9	4824.5	4892.4	4968.3	4995.0	5000.3	4995.0	4968.3	4901.8	4829.8	4833.8
35°	5078.9	5086.8	5152.1	5225.3	5246.6	5257.3	5248.0	5213.4	5144.1	5073.5	5070.9
37.5°	5395.8	5397.1	5465.0	5540.9	5567.6	5570.2	5559.6	5536.9	5450.4	5386.5	5382.5
40°	5763.3	5768.6	5848.5	5929.8	5940.4	5928.4	5943.1	5929.8	5840.6	5767.3	5779.3
42.5°	6210.7	6222.7	6318.6	6398.5	6367.9	6361.2	6370.5	6374.5	6302.6	6213.4	6205.4
45°	6731.4	6742.1	6861.9	6925.8	6905.9	6861.9	6880.6	6912.5	6812.6	6702.1	6712.8
47.5°	7325.3	7352.0	7479.8	7539.7	7490.5	7430.5	7466.5	7514.4	7397.2	7260.1	7253.4
50°	7985.8	8019.1	8189.6	8273.5	8224.2	8113.7	8173.6	8205.5	8036.4	7859.3	7844.7
52.5°	8690.3	8723.5	8937.9	9111.1	9079.1	8907.3	8991.2	8957.9	8763.5	8525.1	8506.5
55°	9487.9	9501.2	9732.9	10012.6	10044.5	9918.0	9912.7	9858.1	9570.5	9294.8	9281.5
57.5°	10308.2	10317.5	10617.1	10947.4	11097.9	11097.9	10948.7	10832.9	10450.7	10131.1	10097.8
60°	11193.7	11227.0	11558.6	12007.4	12358.9	12462.8	12199.1	11883.5	11468.0	11077.9	11039.3
62.5°	11982.1	12020.7	12528.0	13196.5	13761.1	14139.3	13494.8	12980.8	12224.4	11598.5	11525.3
65°	12081.9	12185.8	12924.9	14135.3	15399.0	16154.1	14918.3	13651.9	12273.7	11404.1	11329.6
67.5°	11033.9	11209.7	12208.4	14092.7	16704.0	18324.6	15827.8	13268.4	11389.5	10428.0	10345.5
70°	8478.5	8734.2	9886.1	12327.0	16479.0	19023.7	15257.9	11615.9	9495.9	8461.2	8345.4
72.5°	4651.4	4756.6	5792.6	8441.2	13211.2	16166.1	12726.4	8589.0	6297.3	5124.1	4929.7
75°	1475.5	1512.7	2040.1	3454.3	7473.1	10707.7	8084.4	4216.0	2321.0	1711.2	1691.2
77.5°	655.2	659.2	737.7	1008.0	2574.1	5425.1	3092.1	1147.9	791.0	691.1	713.8
80°	414.1	414.1	456.8	499.4	700.4	1575.3	836.3	546.0	466.1	432.8	442.1
82.5°	198.4	219.7	297.0	319.6	384.8	530.0	428.8	356.9	311.6	231.7	215.7
85°	130.5	109.2	187.8	211.7	223.7	254.3	249.0	235.7	203.7	115.9	129.2
87.5°	58.6	55.9	97.2	89.2	83.9	63.9	95.9	118.5	114.5	57.3	57.3
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)