

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: P316603

Luminaire Tested: **GAN-SA9B-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316603
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-SA9B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 39453 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 374
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

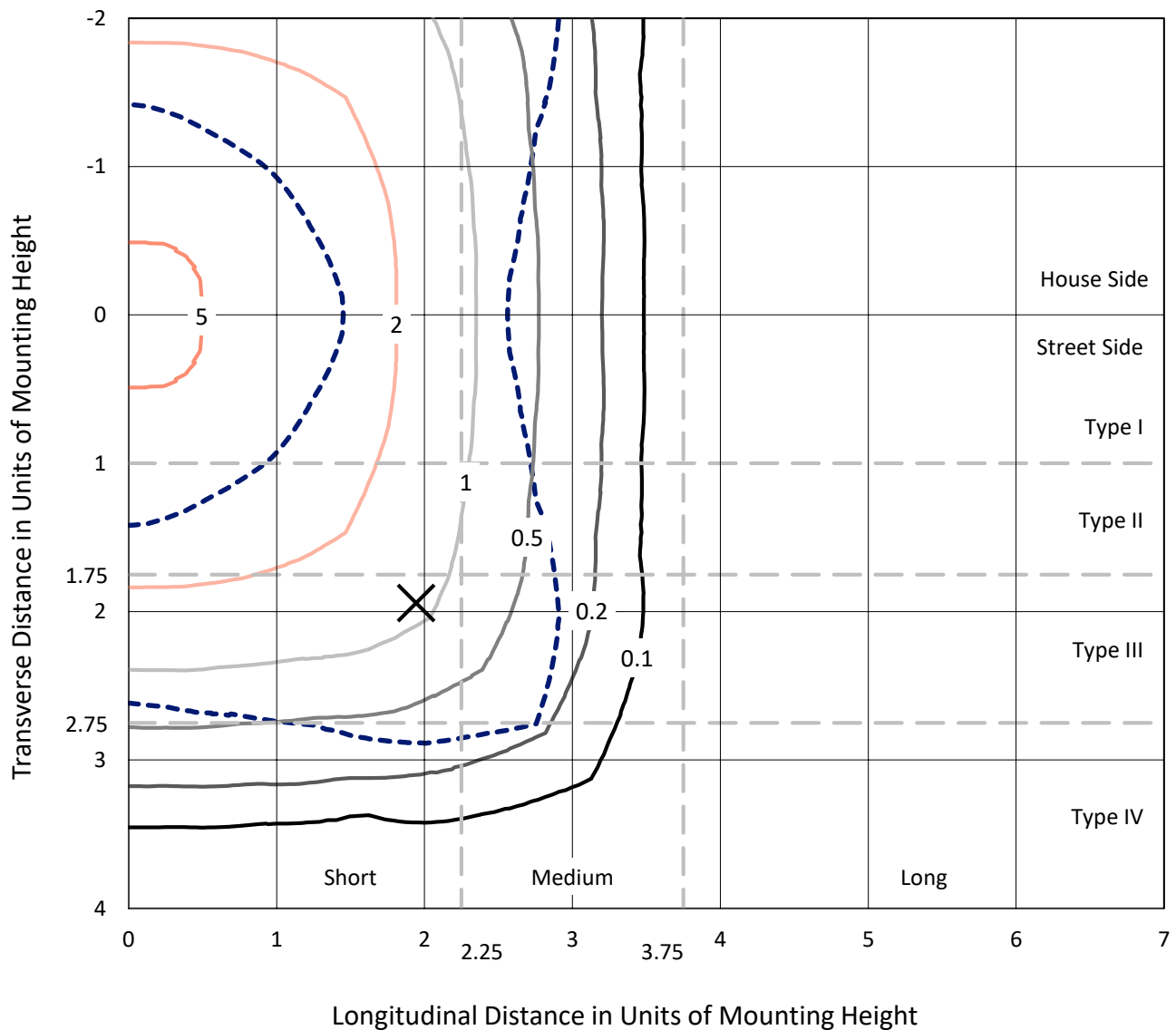


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Iso-Footcandle Lines of Horizontal Illumination

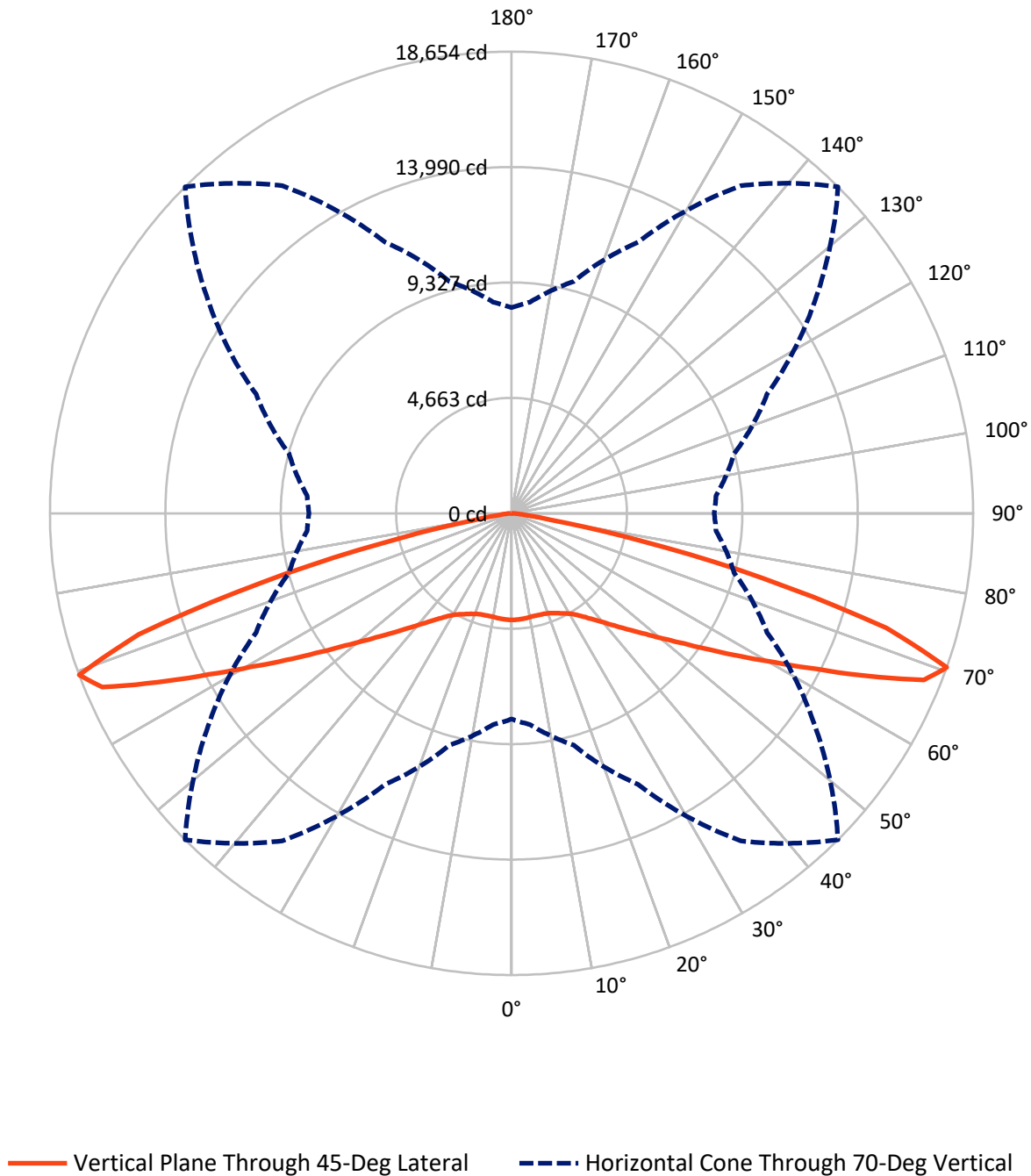
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	19726.5	0.0	19726.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19726.5	0.0	19726.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39453.0	0.0	39453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.1	1.0
10°-20°	1198.1	3.0
20°-30°	2039.5	5.2
30°-40°	3234.6	8.2
40°-50°	5263.7	13.3
50°-60°	8678.9	22.0
60°-70°	12740.9	32.3
70°-80°	5634.0	14.3
80°-90°	255.1	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°	39453.0	100.0
0°-180°	39453.0	100.0

Coefficient of Utilization



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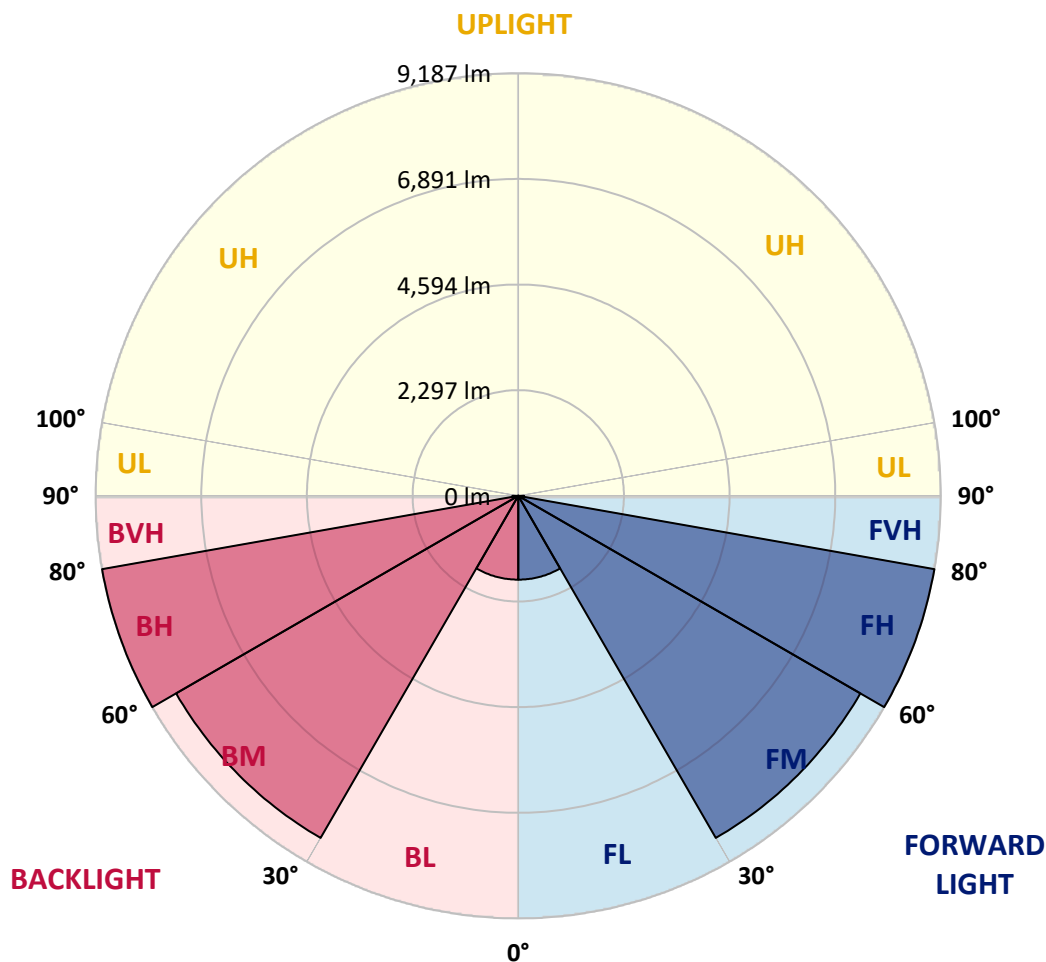
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.8	4.6			
FM	(30°-60°)	8588.6	21.8			
FH	(60°-80°)	9187.5	23.3			G4/12000
FVH	(80°-90°)	127.6	0.3			G2/225
BL	(0°-30°)	1822.8	4.6	B3/2500		
BM	(30°-60°)	8588.6	21.8	B5		
BH	(60°-80°)	9187.5	23.3	B5		G4/12000
BVH	(80°-90°)	127.6	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°	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9
2.5°	4302.4	4298.4	4307.6	4306.3	4298.4	4299.7	4299.7	4303.7	4303.7	4301.0	4301.0
5°	4286.7	4284.1	4294.5	4294.5	4286.7	4289.3	4291.9	4295.8	4294.5	4291.9	4290.6
7.5°	4267.1	4265.8	4276.2	4276.2	4271.0	4273.6	4271.0	4272.3	4269.7	4267.1	4263.2
10°	4234.5	4237.1	4246.2	4248.8	4248.8	4250.1	4247.5	4241.0	4237.1	4233.1	4229.2
12.5°	4204.4	4203.1	4216.2	4222.7	4233.1	4244.9	4237.1	4218.8	4211.0	4203.1	4200.5
15°	4184.8	4186.1	4199.2	4211.0	4229.2	4254.0	4244.9	4216.2	4200.5	4191.4	4188.8
17.5°	4180.9	4183.5	4200.5	4221.4	4241.0	4268.4	4263.2	4234.5	4208.3	4191.4	4187.4
20°	4190.1	4191.4	4217.5	4247.5	4281.5	4307.6	4295.8	4264.5	4229.2	4203.1	4196.6
22.5°	4207.0	4212.3	4244.9	4291.9	4344.1	4379.4	4365.0	4311.5	4256.7	4224.0	4214.9
25°	4260.6	4261.9	4306.3	4370.3	4432.9	4473.4	4456.4	4380.7	4310.2	4273.6	4261.9
27.5°	4371.6	4375.5	4419.9	4494.3	4547.8	4573.9	4563.5	4502.1	4442.1	4402.9	4406.8
30°	4532.2	4537.4	4587.0	4669.3	4701.9	4708.4	4705.8	4677.1	4622.3	4570.0	4573.9
32.5°	4728.0	4730.6	4797.2	4871.6	4897.8	4903.0	4897.8	4871.6	4806.4	4735.9	4739.8
35°	4980.0	4987.9	5051.8	5123.7	5144.5	5155.0	5145.8	5111.9	5044.0	4974.8	4972.2
37.5°	5290.8	5292.1	5358.7	5433.1	5459.2	5461.8	5451.4	5429.2	5344.3	5281.6	5277.7
40°	5651.2	5656.4	5734.7	5814.4	5824.8	5813.1	5827.4	5814.4	5726.9	5655.1	5666.8
42.5°	6089.9	6101.6	6195.6	6274.0	6244.0	6237.4	6246.6	6250.5	6180.0	6092.5	6084.7
45°	6600.4	6610.9	6728.4	6791.1	6771.5	6728.4	6746.7	6778.0	6680.1	6571.7	6582.1
47.5°	7182.8	7208.9	7334.2	7393.0	7344.7	7285.9	7321.2	7368.2	7253.3	7118.8	7112.3
50°	7830.4	7863.1	8030.2	8112.4	8064.1	7955.8	8014.5	8045.9	7880.0	7706.4	7692.0
52.5°	8521.1	8553.8	8764.0	8933.7	8902.4	8734.0	8816.2	8783.6	8593.0	8359.2	8341.0
55°	9303.3	9316.3	9543.5	9817.7	9849.1	9725.0	9719.8	9666.3	9384.2	9113.9	9100.9
57.5°	10107.6	10116.7	10410.5	10734.3	10881.9	10881.9	10735.6	10622.0	10247.3	9933.9	9901.3
60°	10975.9	11008.5	11333.7	11773.7	12118.4	12220.2	11961.7	11652.3	11244.9	10862.3	10824.4
62.5°	11748.9	11786.7	12284.2	12939.7	13493.3	13864.2	13232.2	12728.2	11986.5	11372.8	11301.0
65°	11846.8	11948.7	12673.3	13860.2	15099.4	15839.7	14628.0	13386.3	12034.8	11182.2	11109.1
67.5°	10819.2	10991.6	11970.9	13818.5	16379.0	17968.0	15519.8	13010.2	11167.8	10225.1	10144.2
70°	8313.5	8564.2	9693.7	12087.1	16158.3	18653.5	14961.0	11389.8	9311.1	8296.6	8183.0
72.5°	4560.9	4664.0	5679.9	8277.0	12954.1	15851.5	12478.8	8421.9	6174.8	5024.4	4833.8
75°	1446.7	1483.3	2000.4	3387.0	7327.7	10499.3	7927.0	4133.9	2275.9	1677.9	1658.3
77.5°	642.4	646.3	723.4	988.4	2524.0	5319.5	3031.9	1125.5	775.6	677.7	699.9
80°	406.1	406.1	447.9	489.6	686.8	1544.7	820.0	535.3	457.0	424.4	433.5
82.5°	194.6	215.4	291.2	313.4	377.4	519.7	420.4	349.9	305.5	227.2	211.5
85°	128.0	107.1	184.1	207.6	219.4	249.4	244.2	231.1	199.8	113.6	126.7
87.5°	57.5	54.8	95.3	87.5	82.3	62.7	94.0	116.2	112.3	56.1	56.1
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)