

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: P316941

Luminaire Tested: **GAN-SA7D-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41615 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

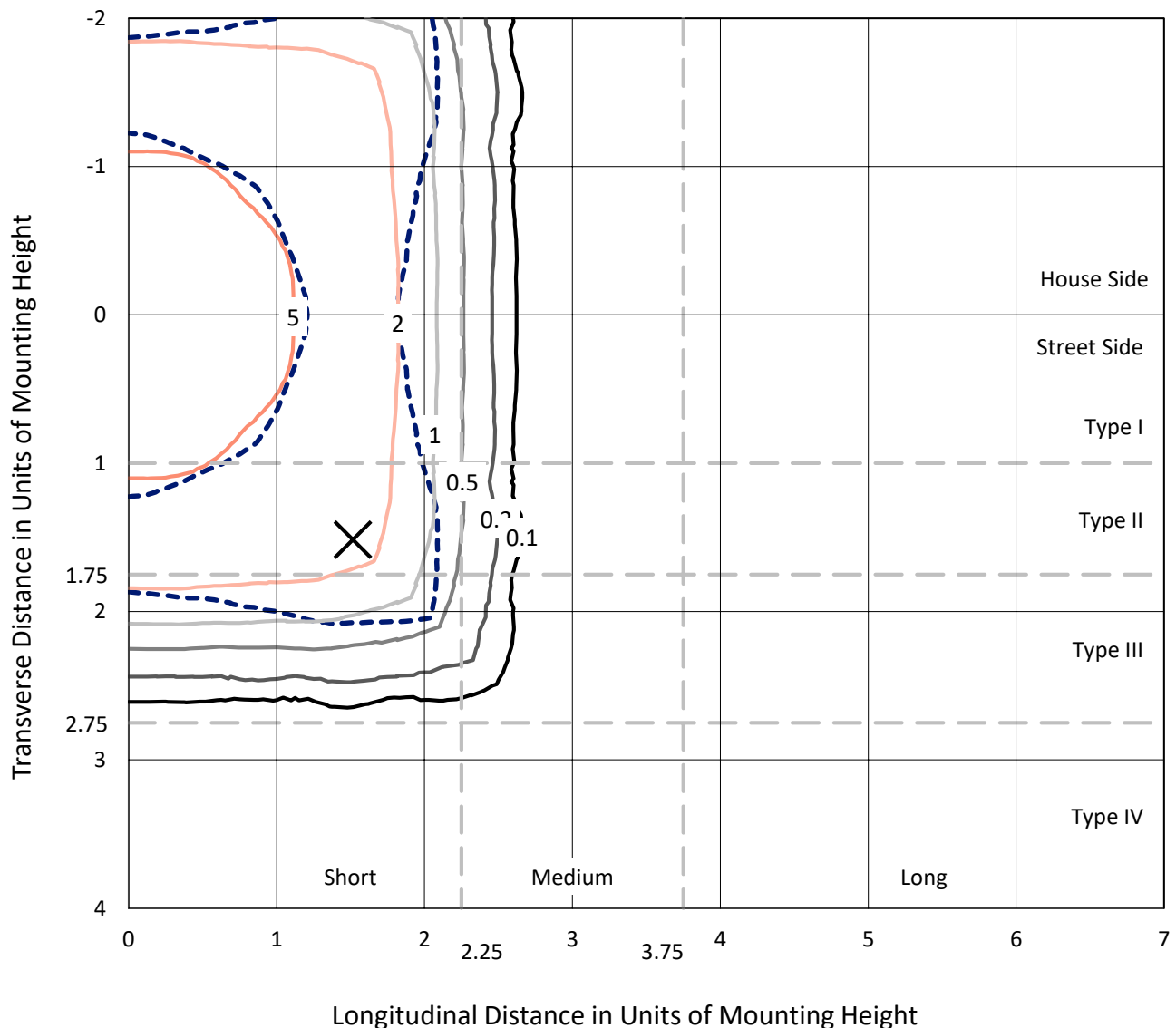
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

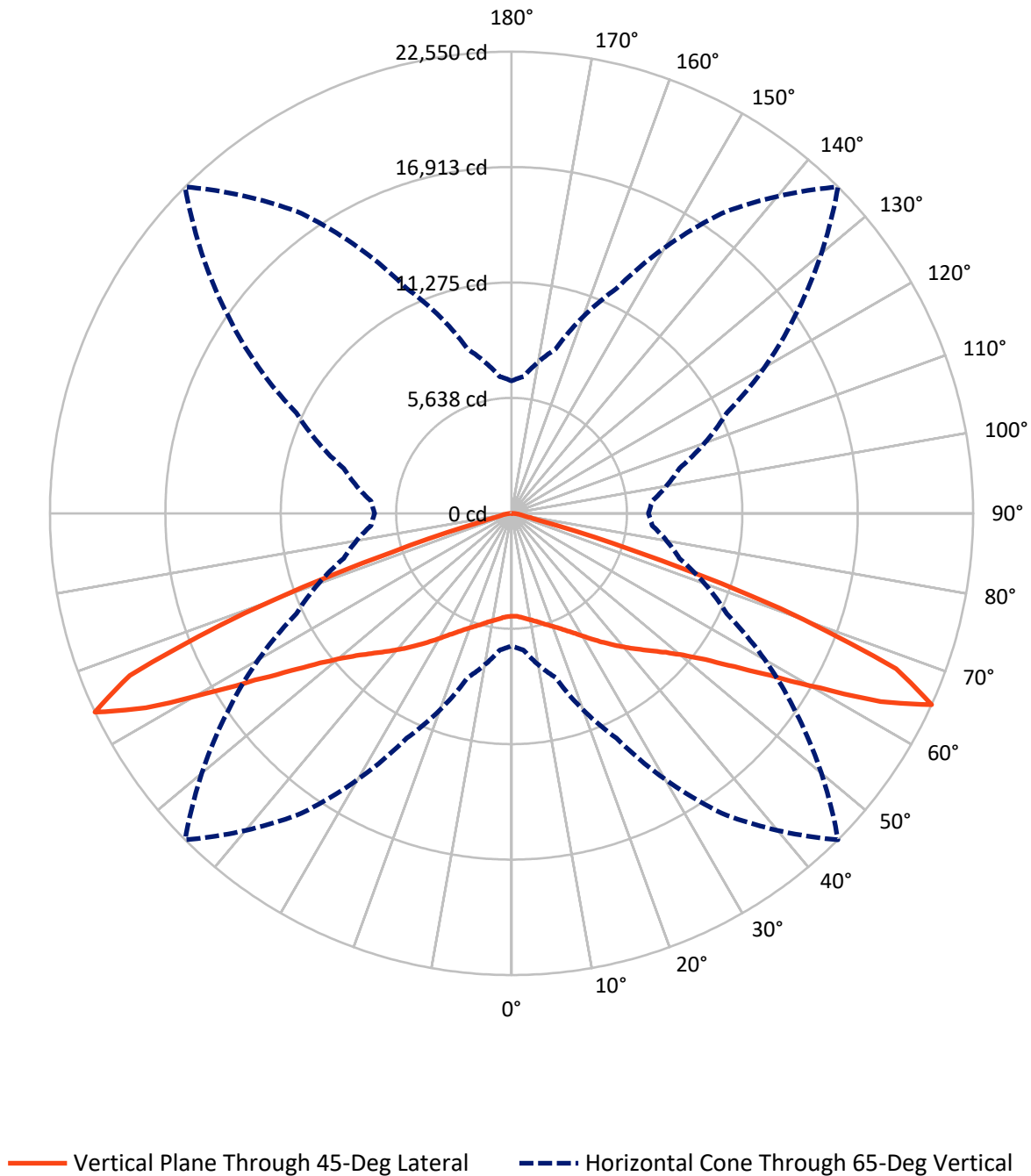
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	20807.5	0.0	20807.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20807.5	0.0	20807.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41615.0	0.0	41615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.1	1.2
10°-20°	1584.9	3.8
20°-30°	2973.5	7.1
30°-40°	4917.6	11.8
40°-50°	7616.7	18.3
50°-60°	11681.9	28.1
60°-70°	10900.5	26.2
70°-80°	1268.7	3.0
80°-90°	178.3	0.4
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°	41615.0	100.0
0°-180°	41615.0	100.0

Coefficient of Utilization



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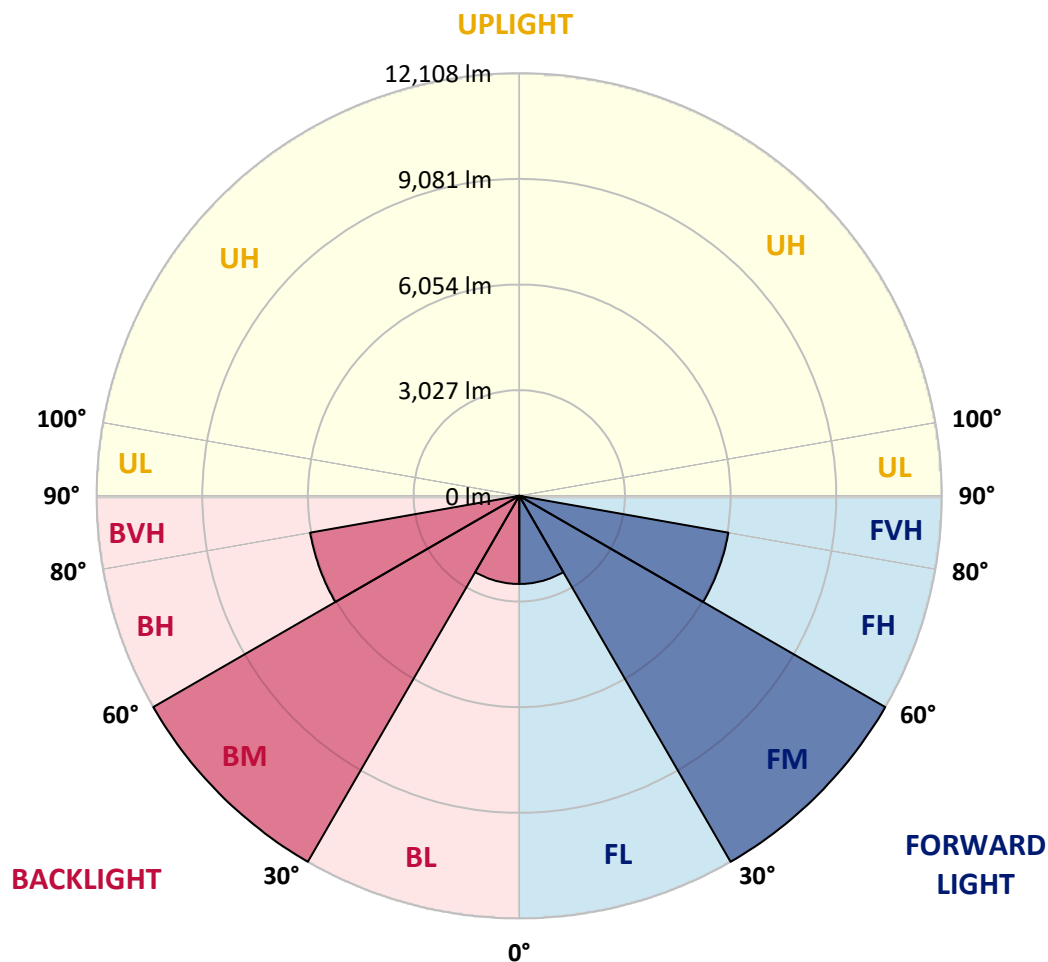
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2525.7	6.1			
FM	(30°-60°)	12108.1	29.1			
FH	(60°-80°)	6084.6	14.6			G3/7500
FVH	(80°-90°)	89.1	0.2			G1/100
BL	(0°-30°)	2525.7	6.1	B4/5000		
BM	(30°-60°)	12108.1	29.1	B5		
BH	(60°-80°)	6084.6	14.6	B5		G3/7500
BVH	(80°-90°)	89.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5
2.5°	5042.1	5039.4	5042.1	5043.5	5035.2	5039.4	5038.0	5044.9	5047.6	5044.9	5044.9
5°	5100.1	5096.0	5101.5	5108.4	5097.4	5100.1	5096.0	5104.3	5107.0	5101.5	5105.7
7.5°	5180.3	5181.6	5187.2	5199.6	5192.7	5198.2	5189.9	5191.3	5189.9	5181.6	5183.0
10°	5267.3	5268.7	5278.3	5294.9	5297.7	5297.7	5292.1	5288.0	5282.5	5277.0	5278.3
12.5°	5372.3	5379.2	5386.1	5406.8	5406.8	5417.9	5415.1	5404.0	5394.4	5386.1	5386.1
15°	5514.6	5513.2	5521.5	5542.2	5551.9	5569.8	5569.8	5554.6	5542.2	5533.9	5531.1
17.5°	5663.7	5667.9	5673.4	5698.3	5713.5	5734.2	5737.0	5724.5	5716.2	5705.2	5698.3
20°	5837.8	5844.7	5866.8	5876.5	5890.3	5909.6	5916.5	5913.8	5905.5	5900.0	5901.3
22.5°	6040.9	6058.8	6072.6	6086.5	6103.0	6116.8	6123.8	6133.4	6125.1	6121.0	6118.2
25°	6286.8	6299.2	6326.8	6351.7	6362.7	6366.9	6375.2	6389.0	6387.6	6377.9	6377.9
27.5°	6565.8	6589.3	6623.8	6659.7	6659.7	6645.9	6673.6	6697.0	6688.7	6676.3	6659.7
30°	6904.2	6926.3	6966.4	7016.1	6991.3	6981.6	7018.9	7061.7	7049.3	7028.6	7025.8
32.5°	7268.9	7289.7	7342.1	7396.0	7364.3	7350.4	7390.5	7452.7	7430.6	7389.1	7364.3
35°	7664.0	7684.7	7759.3	7824.3	7770.4	7746.9	7780.1	7847.7	7809.1	7731.7	7712.4
37.5°	8093.6	8104.7	8201.4	8267.7	8230.4	8168.2	8209.7	8259.4	8226.2	8132.3	8095.0
40°	8539.8	8579.9	8691.8	8769.1	8704.2	8606.1	8675.2	8744.3	8694.5	8574.4	8510.8
42.5°	9060.6	9091.0	9240.2	9309.3	9204.3	9066.1	9160.1	9254.0	9204.3	9088.2	9033.0
45°	9602.1	9649.1	9827.3	9896.4	9744.4	9569.0	9683.6	9848.0	9843.9	9676.7	9618.7
47.5°	10192.0	10238.9	10451.7	10542.9	10378.5	10143.6	10305.3	10537.3	10520.8	10337.0	10290.1
50°	10873.0	10922.7	11188.0	11302.6	11149.3	10875.8	11118.9	11323.3	11293.0	11066.4	11070.6
52.5°	11728.1	11725.3	12055.5	12254.4	12096.9	11855.2	12079.0	12277.9	12152.2	11838.6	11828.9
55°	12476.8	12522.4	12931.3	13308.4	13298.8	13206.2	13296.0	13304.3	12945.1	12527.9	12476.8
57.5°	12968.6	13055.6	13631.7	14314.1	14825.2	14948.1	14774.1	14246.4	13405.1	12737.9	12656.4
60°	12666.1	12798.7	13703.5	15094.6	16600.3	17322.8	16340.6	14703.6	13047.3	12117.7	12007.1
62.5°	10624.4	10848.1	12172.9	14717.5	18128.1	20240.3	17476.1	13970.1	11624.5	10343.9	10154.7
65°	6470.5	6706.7	8303.6	12113.5	17880.9	22550.0	16958.1	11595.5	8484.6	6891.8	6687.4
67.5°	2156.4	2225.4	3166.2	6695.7	14053.0	20261.0	14076.5	6941.5	3692.5	2447.8	2376.0
70°	844.0	850.9	1004.3	1940.9	6636.3	13916.2	7322.8	1975.4	1049.9	830.2	848.2
72.5°	620.2	623.0	665.8	810.9	1729.5	6130.7	1791.7	815.0	647.9	581.6	581.6
75°	498.7	498.7	529.1	591.2	775.0	1406.3	786.0	584.3	507.0	464.2	458.6
77.5°	393.7	402.0	425.5	465.5	524.9	676.9	544.3	462.8	408.9	368.8	360.5
80°	292.9	301.1	339.8	359.2	377.1	469.7	402.0	361.9	323.2	276.3	268.0
82.5°	192.0	200.3	248.7	259.7	255.6	306.7	270.8	266.6	237.6	178.2	169.9
85°	125.7	128.5	165.8	172.7	158.9	139.5	172.7	182.3	165.8	116.0	111.9
87.5°	59.4	59.4	84.3	78.7	71.8	58.0	78.7	92.6	93.9	56.6	55.3
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)