

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: P316424

Luminaire Tested: **GAN-SA0D-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316424
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-SA0D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67471 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

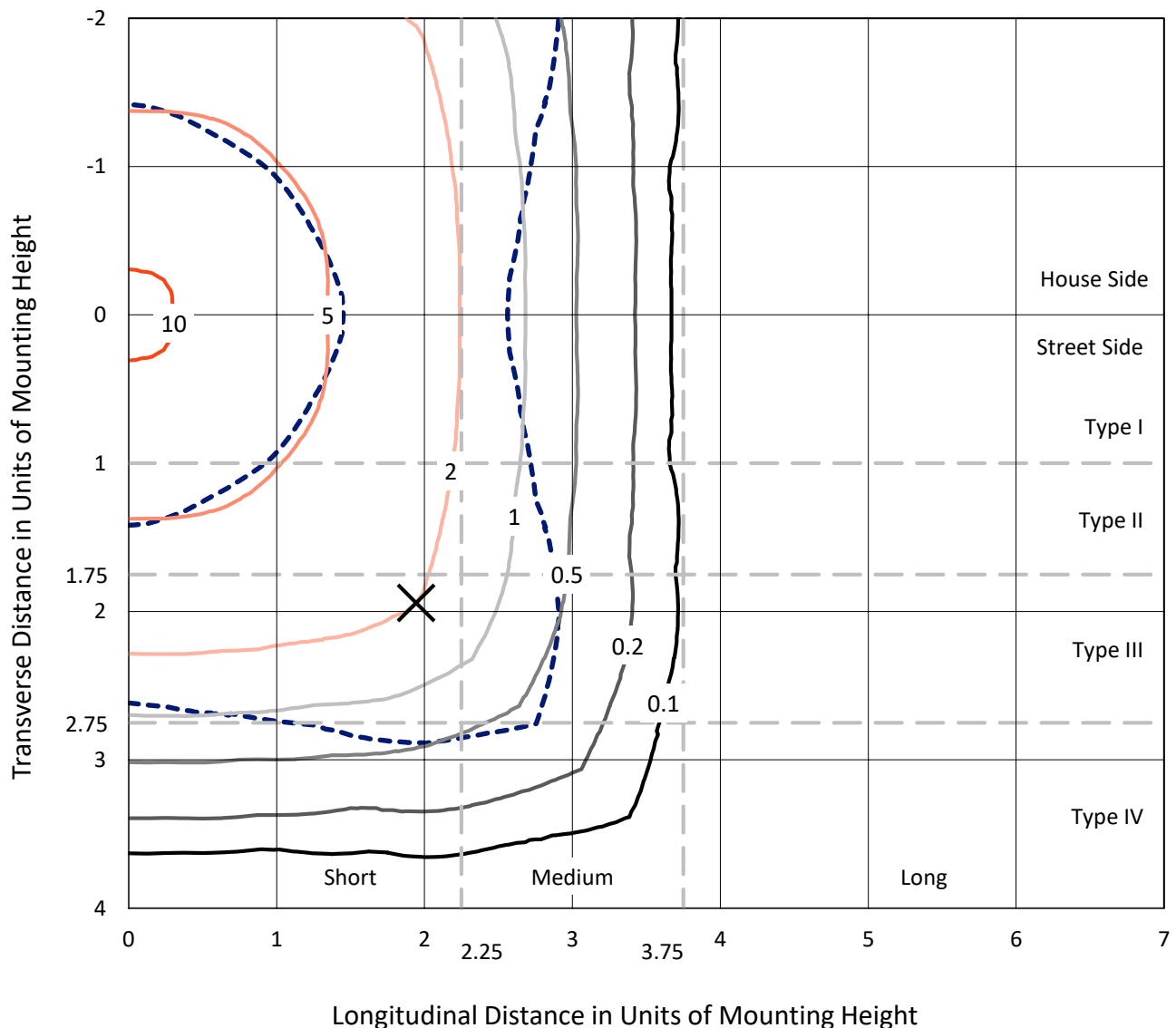
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

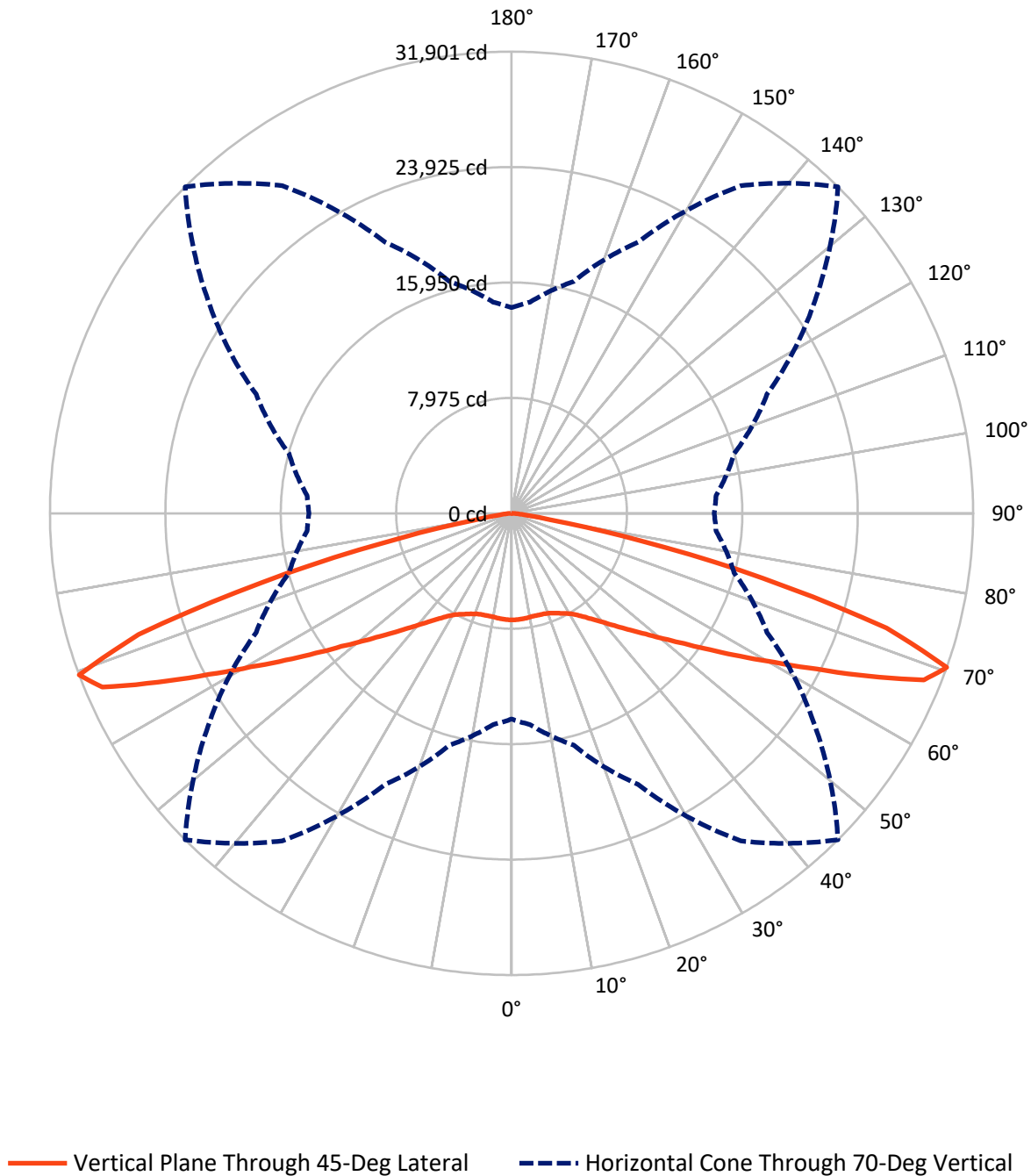
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	33735.5	0.0	33735.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33735.5	0.0	33735.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67471.0	0.0	67471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.9	1.0
10°-20°	2048.9	3.0
20°-30°	3487.9	5.2
30°-40°	5531.7	8.2
40°-50°	9001.8	13.3
50°-60°	14842.4	22.0
60°-70°	21789.0	32.3
70°-80°	9635.1	14.3
80°-90°	436.3	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°	67471.0	100.0
0°-180°	67471.0	100.0

Coefficient of Utilization



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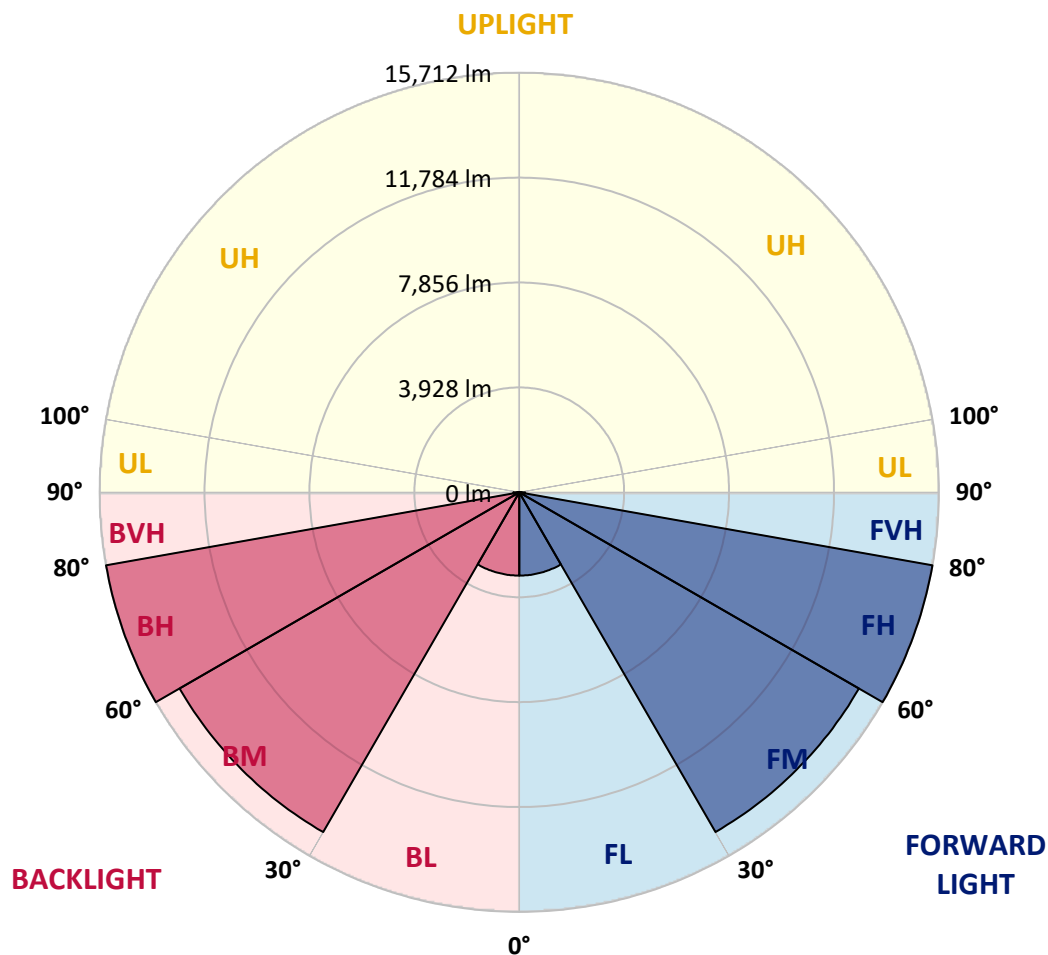
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3117.3	4.6			
FM	(30°-60°)	14688.0	21.8			
FH	(60°-80°)	15712.0	23.3			G5
FVH	(80°-90°)	218.2	0.3			G2/225
BL	(0°-30°)	3117.3	4.6	B4/5000		
BM	(30°-60°)	14688.0	21.8	B5		
BH	(60°-80°)	15712.0	23.3	B5		G5
BVH	(80°-90°)	218.2	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7368.9	7368.9	7368.9	7368.9	7368.9	7368.9	7368.9	7368.9	7368.9	7368.9	7368.9
2.5°	7357.7	7351.0	7366.7	7364.4	7351.0	7353.3	7353.3	7360.0	7360.0	7355.5	7355.5
5°	7330.9	7326.5	7344.3	7344.3	7330.9	7335.4	7339.9	7346.6	7344.3	7339.9	7337.6
7.5°	7297.4	7295.2	7313.1	7313.1	7304.1	7308.6	7304.1	7306.4	7301.9	7297.4	7290.7
10°	7241.6	7246.1	7261.7	7266.2	7266.2	7268.4	7263.9	7252.8	7246.1	7239.4	7232.7
12.5°	7190.2	7188.0	7210.3	7221.5	7239.4	7259.5	7246.1	7214.8	7201.4	7188.0	7183.5
15°	7156.7	7159.0	7181.3	7201.4	7232.7	7275.1	7259.5	7210.3	7183.5	7167.9	7163.4
17.5°	7150.0	7154.5	7183.5	7219.3	7252.8	7299.7	7290.7	7241.6	7196.9	7167.9	7161.2
20°	7165.7	7167.9	7212.6	7263.9	7322.0	7366.7	7346.6	7293.0	7232.7	7188.0	7176.8
22.5°	7194.7	7203.6	7259.5	7339.9	7429.2	7489.5	7464.9	7373.3	7279.6	7223.7	7208.1
25°	7286.3	7288.5	7364.4	7473.8	7581.0	7650.2	7621.2	7491.7	7371.1	7308.6	7288.5
27.5°	7476.1	7482.8	7558.7	7686.0	7777.5	7822.2	7804.3	7699.4	7596.6	7529.7	7536.4
30°	7750.7	7759.7	7844.5	7985.2	8041.0	8052.2	8047.7	7998.6	7904.8	7815.5	7822.2
32.5°	8085.7	8090.1	8204.0	8331.3	8376.0	8384.9	8376.0	8331.3	8219.7	8099.1	8105.8
35°	8516.6	8530.0	8639.5	8762.3	8798.0	8815.9	8800.2	8742.2	8626.1	8507.7	8503.2
37.5°	9048.1	9050.3	9164.2	9291.5	9336.2	9340.6	9322.8	9284.8	9139.6	9032.5	9025.8
40°	9664.4	9673.3	9807.3	9943.5	9961.4	9941.3	9965.9	9943.5	9793.9	9671.1	9691.2
42.5°	10414.7	10434.8	10595.6	10729.5	10678.2	10667.0	10682.6	10689.3	10568.8	10419.2	10405.8
45°	11287.8	11305.7	11506.6	11613.8	11580.3	11506.6	11537.9	11591.5	11424.0	11238.7	11256.5
47.5°	12283.7	12328.4	12542.7	12643.2	12560.6	12460.1	12520.4	12600.8	12404.3	12174.3	12163.1
50°	13391.3	13447.1	13732.9	13873.6	13791.0	13605.6	13706.1	13759.7	13476.1	13179.1	13154.6
52.5°	14572.5	14628.3	14987.9	15278.2	15224.6	14936.5	15077.2	15021.4	14695.3	14295.6	14264.4
55°	15910.1	15932.4	16321.0	16789.9	16843.5	16631.3	16622.4	16530.9	16048.5	15586.3	15564.0
57.5°	17285.6	17301.2	17803.7	18357.5	18609.8	18609.8	18359.7	18165.4	17524.5	16988.6	16932.8
60°	18770.6	18826.4	19382.4	20134.9	20724.4	20898.6	20456.5	19927.2	19230.6	18576.3	18511.5
62.5°	20092.5	20157.2	21008.0	22129.0	23075.8	23709.9	22629.2	21767.2	20498.9	19449.4	19326.6
65°	20260.0	20434.1	21673.4	23703.2	25822.4	27088.5	25016.2	22892.7	20581.5	19123.4	18998.3
67.5°	18502.6	18797.4	20472.1	23631.8	28010.7	30728.2	26541.4	22249.6	19098.8	17486.6	17348.1
70°	14217.5	14646.2	16577.8	20670.8	27633.3	31900.6	25585.7	19478.4	15923.5	14188.4	13994.2
72.5°	7799.9	7976.3	9713.5	14155.0	22153.5	27108.6	21340.7	14402.8	10559.8	8592.6	8266.5
75°	2474.2	2536.7	3420.9	5792.4	12531.6	17955.5	13556.5	7069.7	3892.1	2869.4	2835.9
77.5°	1098.6	1105.3	1237.1	1690.4	4316.4	9097.2	5185.0	1924.8	1326.4	1158.9	1196.9
80°	694.5	694.5	765.9	837.4	1174.6	2641.6	1402.3	915.5	781.5	725.7	741.4
82.5°	332.7	368.4	498.0	535.9	645.3	888.7	719.0	598.4	522.5	388.5	361.7
85°	218.8	183.1	314.9	355.0	375.1	426.5	417.6	395.2	341.6	194.3	216.6
87.5°	98.3	93.8	163.0	149.6	140.7	107.2	160.8	198.7	192.0	96.0	96.0
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)