

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: P402639

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5MQ-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10612 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

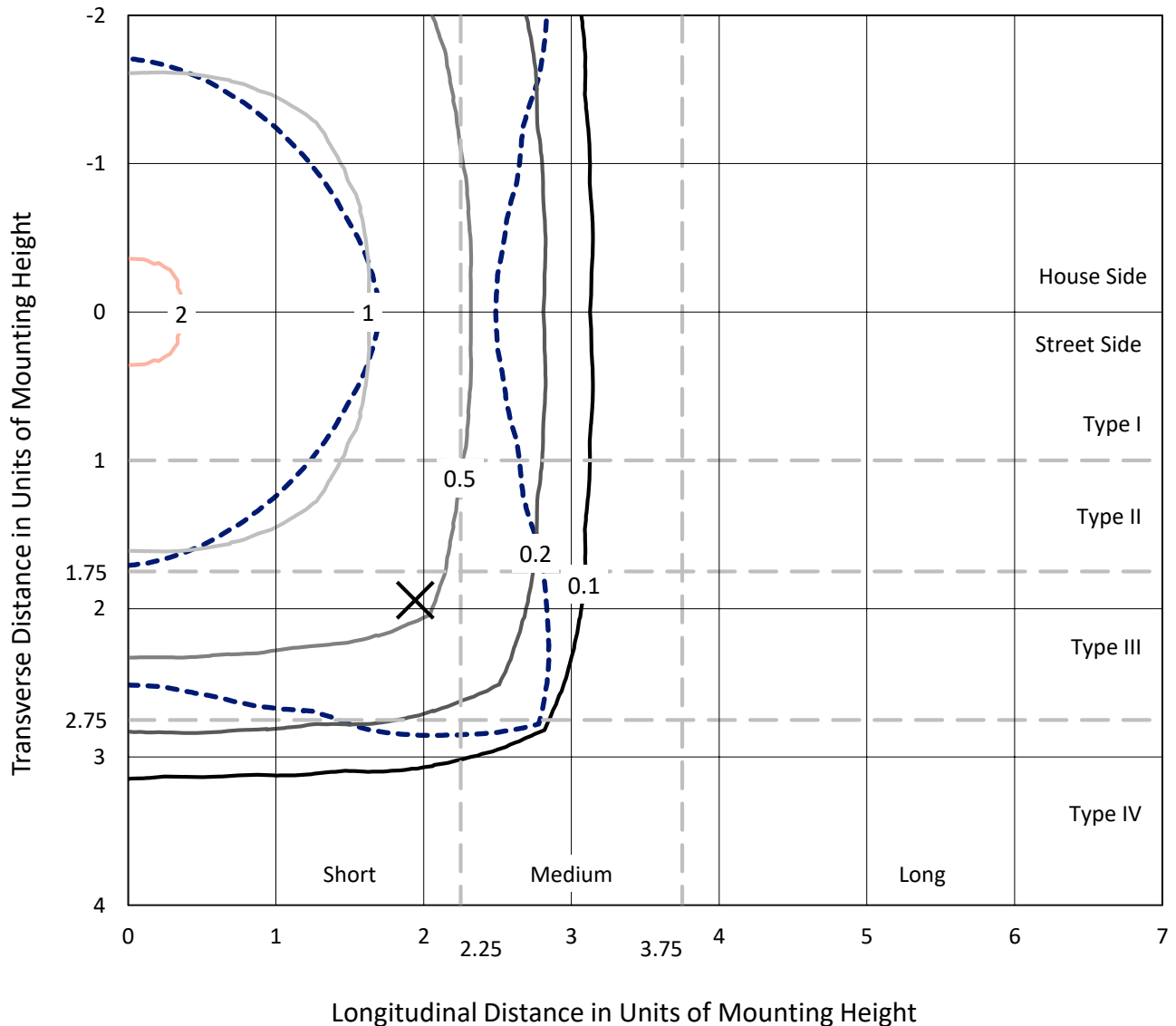
Input Watts (W): 198.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

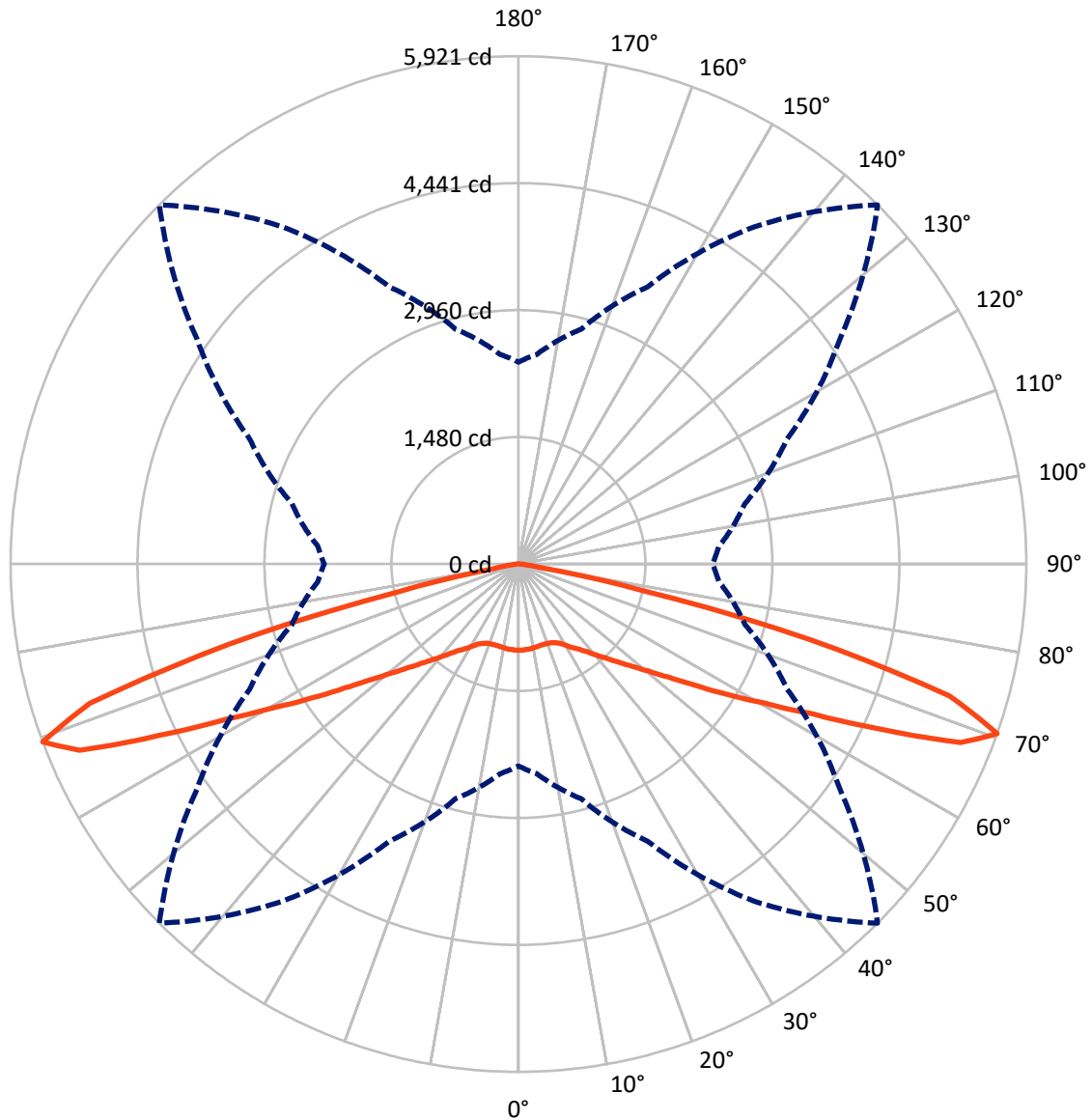
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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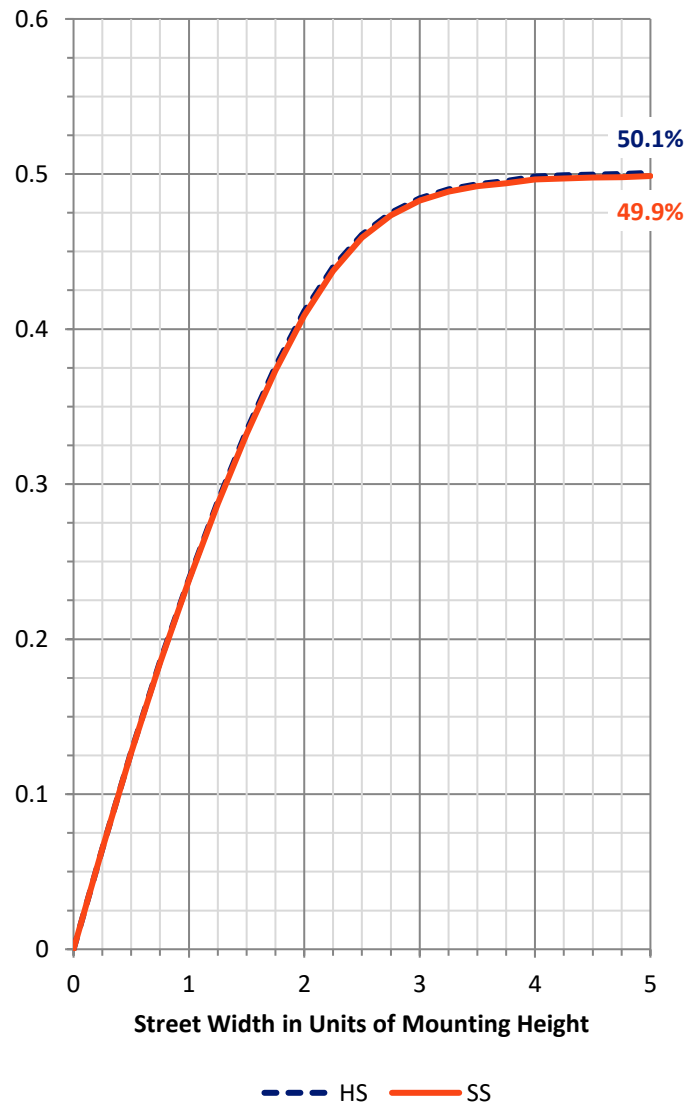
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5306.0	0.0	5306.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5306.0	0.0	5306.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10612.0	0.0	10612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	0.9
10°-20°	277.0	2.6
20°-30°	469.5	4.4
30°-40°	769.6	7.3
40°-50°	1286.9	12.1
50°-60°	2259.2	21.3
60°-70°	3711.6	35.0
70°-80°	1673.2	15.8
80°-90°	69.6	0.7
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°	10612.0	100.0
0°-180°	10612.0	100.0



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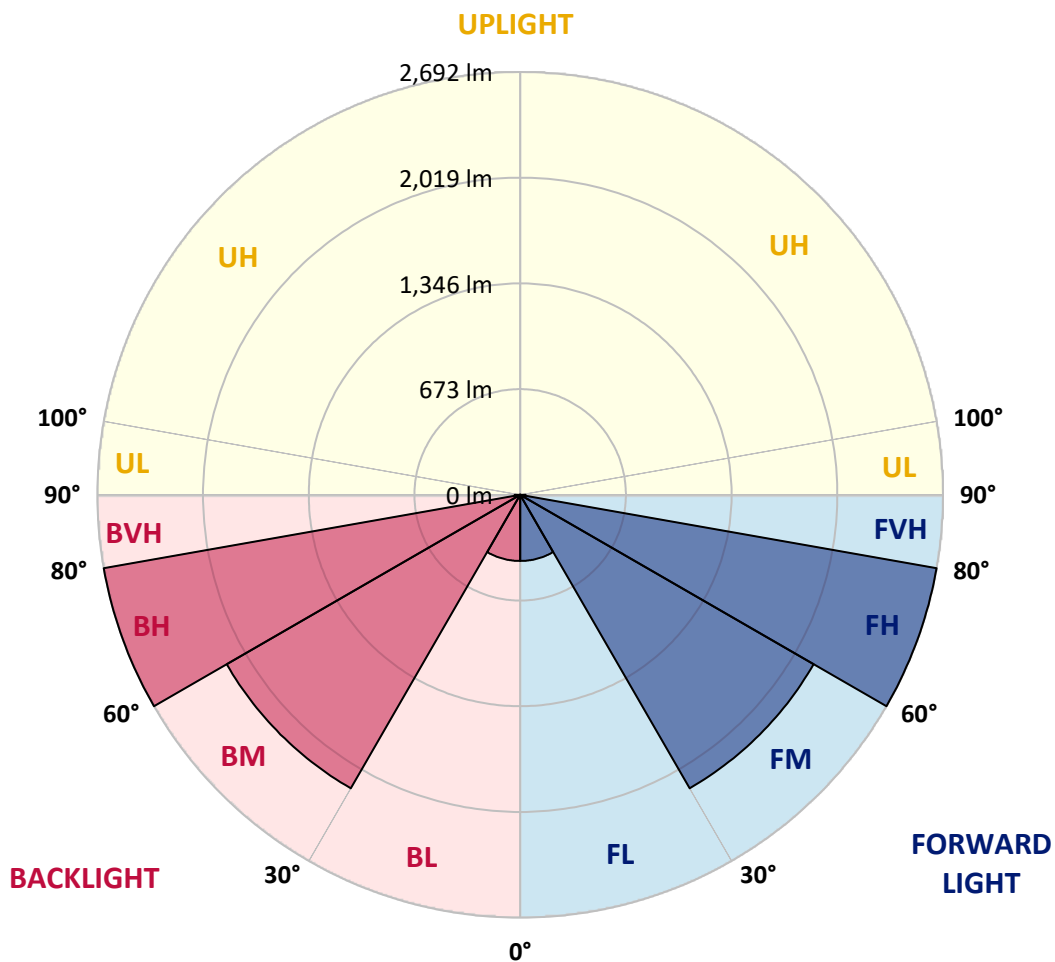
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.0	4.0			
FM (30°-60°)	2157.8	20.3			
FH (60°-80°)	2692.4	25.4			G2/5000
FVH (80°-90°)	34.8	0.3			G1/100
BL (0°-30°)	421.0	4.0	B1/500		
BM (30°-60°)	2157.8	20.3	B2/2500		
BH (60°-80°)	2692.4	25.4	B4/5000		G2/5000
BVH (80°-90°)	34.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1008.4	1008.4	1008.4	1008.4	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
5°	1008.4	1008.4	1008.4	1004.1	1004.1	999.8	1004.1	999.8	999.8	999.8	1004.1
7.5°	1008.4	1008.4	1008.4	1004.1	1004.1	999.8	999.8	995.4	995.4	995.4	995.4
10°	995.4	995.4	995.4	995.4	995.4	991.1	991.1	986.8	986.8	986.8	986.8
12.5°	982.5	986.8	982.5	982.5	986.8	986.8	982.5	978.1	973.8	973.8	978.1
15°	973.8	973.8	973.8	973.8	982.5	982.5	982.5	973.8	969.5	969.5	969.5
17.5°	965.2	965.2	965.2	973.8	978.1	982.5	978.1	973.8	969.5	960.8	960.8
20°	960.8	960.8	965.2	973.8	982.5	986.8	986.8	978.1	969.5	960.8	960.8
22.5°	960.8	960.8	969.5	982.5	991.1	995.4	995.4	986.8	978.1	969.5	969.5
25°	978.1	973.8	982.5	999.8	1012.8	1017.1	1021.4	1008.4	995.4	986.8	982.5
27.5°	1004.1	1008.4	1017.1	1034.4	1051.7	1047.4	1051.7	1043.1	1034.4	1021.4	1021.4
30°	1056.0	1056.0	1069.0	1086.3	1099.3	1103.6	1103.6	1095.0	1082.0	1073.4	1069.0
32.5°	1116.6	1116.6	1129.6	1151.3	1159.9	1164.2	1159.9	1151.3	1133.9	1121.0	1116.6
35°	1177.2	1177.2	1194.5	1220.5	1229.2	1220.5	1224.8	1216.2	1203.2	1194.5	1190.2
37.5°	1250.8	1250.8	1272.4	1294.1	1307.1	1298.4	1311.4	1307.1	1289.8	1281.1	1276.8
40°	1337.4	1341.7	1363.3	1389.3	1389.3	1393.6	1406.6	1410.9	1393.6	1385.0	1376.3
42.5°	1445.6	1454.2	1471.5	1497.5	1501.8	1501.8	1519.1	1523.5	1514.8	1497.5	1488.8
45°	1575.4	1584.1	1610.0	1636.0	1636.0	1627.3	1653.3	1674.9	1657.6	1631.7	1623.0
47.5°	1726.9	1735.5	1770.2	1791.8	1800.5	1778.8	1817.8	1843.7	1822.1	1804.8	1787.5
50°	1908.7	1926.0	1960.6	1995.2	1986.6	1960.6	2012.5	2042.8	2029.8	1990.9	1977.9
52.5°	2103.4	2116.4	2185.7	2220.3	2220.3	2190.0	2259.2	2285.2	2246.2	2194.3	2177.0
55°	2367.4	2363.1	2410.7	2488.6	2518.9	2488.6	2544.9	2553.5	2501.6	2458.3	2428.0
57.5°	2640.1	2648.8	2713.7	2787.3	2830.5	2865.2	2865.2	2843.5	2769.9	2687.7	2670.4
60°	2956.0	2982.0	3059.9	3155.1	3241.7	3289.3	3215.7	3172.4	3059.9	2990.7	2964.7
62.5°	3306.6	3341.2	3458.1	3613.9	3752.4	3847.6	3726.4	3605.3	3462.4	3354.2	3336.9
65°	3414.8	3445.1	3674.5	4012.1	4418.9	4644.0	4258.8	3968.8	3631.2	3406.2	3380.2
67.5°	3176.8	3189.8	3479.7	4059.7	4877.7	5557.2	4708.9	3981.8	3466.8	3142.2	3124.8
70°	2354.5	2454.0	2834.9	3566.3	4799.8	5920.7	4574.7	3458.1	2735.3	2345.8	2263.6
72.5°	1380.6	1359.0	1649.0	2367.4	3921.2	5254.2	3722.1	2345.8	1683.6	1389.3	1324.4
75°	541.0	549.7	688.2	1095.0	2220.3	3501.4	2228.9	1103.6	614.6	502.1	497.7
77.5°	186.1	190.4	207.7	264.0	714.1	1445.6	735.8	268.3	203.4	216.4	220.7
80°	116.9	112.5	125.5	129.8	155.8	285.7	168.8	138.5	134.2	134.2	138.5
82.5°	60.6	64.9	86.6	90.9	95.2	108.2	108.2	103.9	90.9	69.2	60.6
85°	39.0	30.3	60.6	64.9	60.6	56.3	69.2	77.9	69.2	39.0	43.3
87.5°	17.3	17.3	30.3	30.3	30.3	21.6	30.3	43.3	43.3	17.3	17.3
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)