

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: P402591

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-AMB**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402591  
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-04-LED-U-5MQ-AMB  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 4430 lumens  
Efficiency: N/A  
Efficacy: 55.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

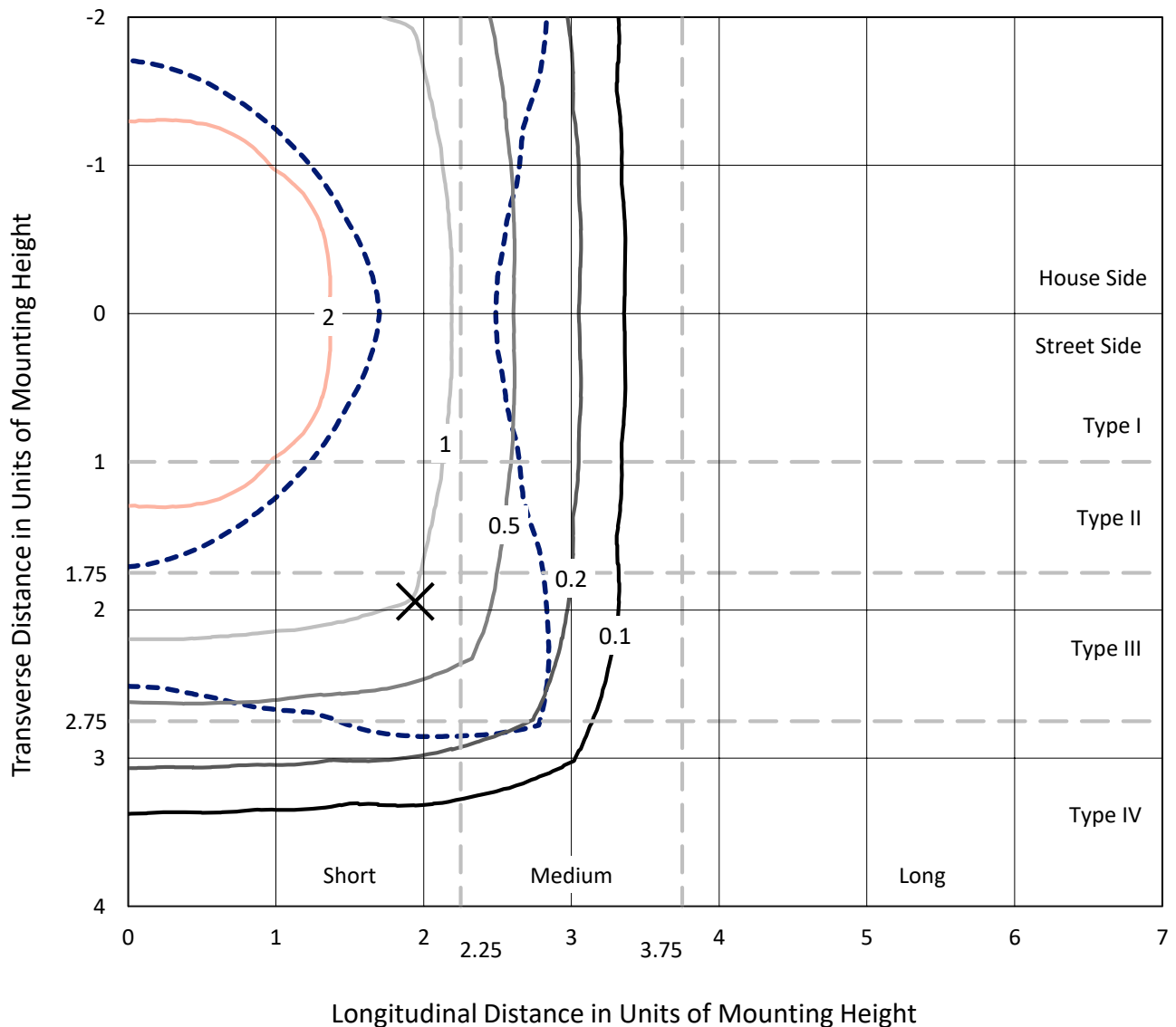
Input Watts (W): 79.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

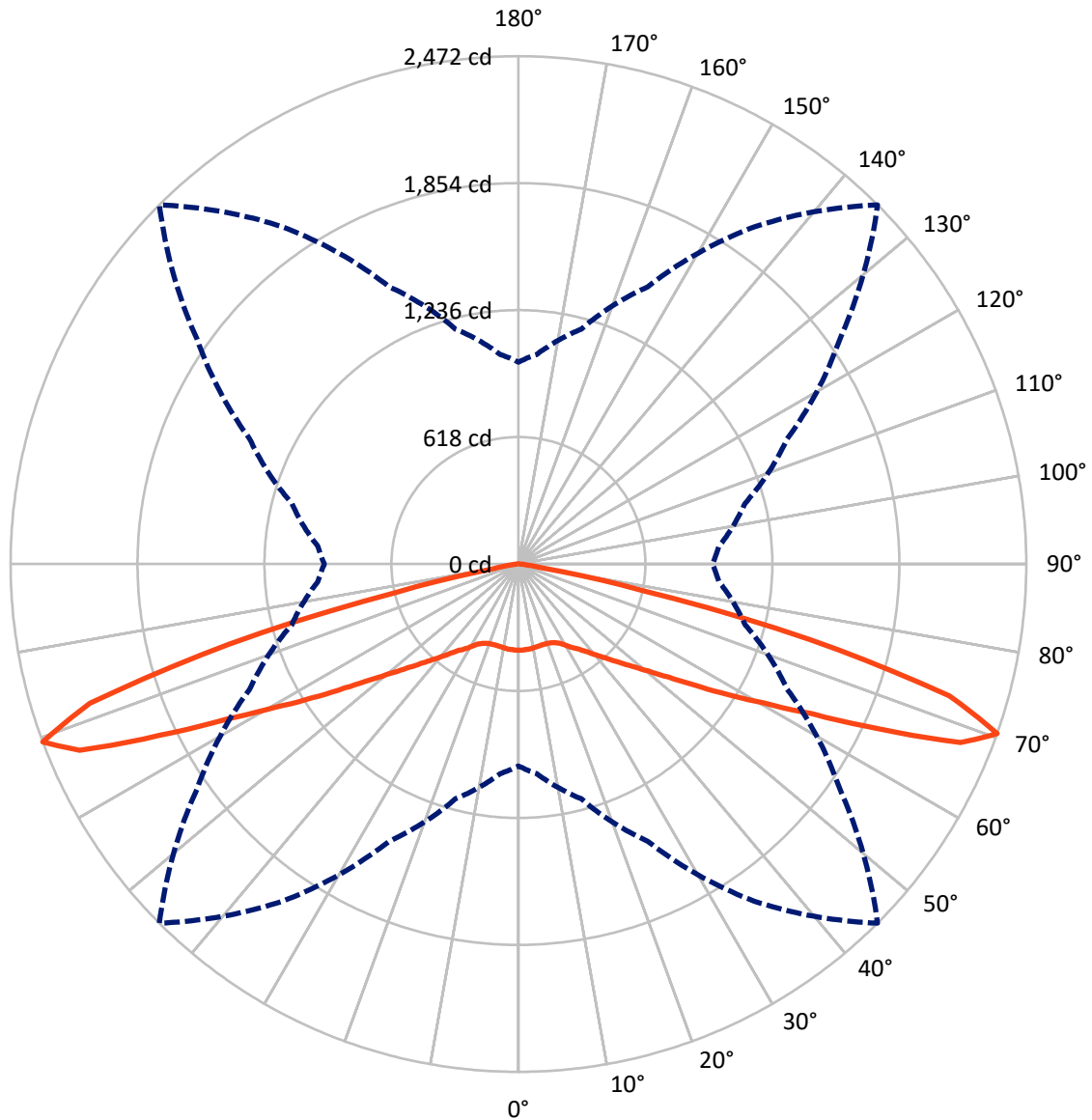
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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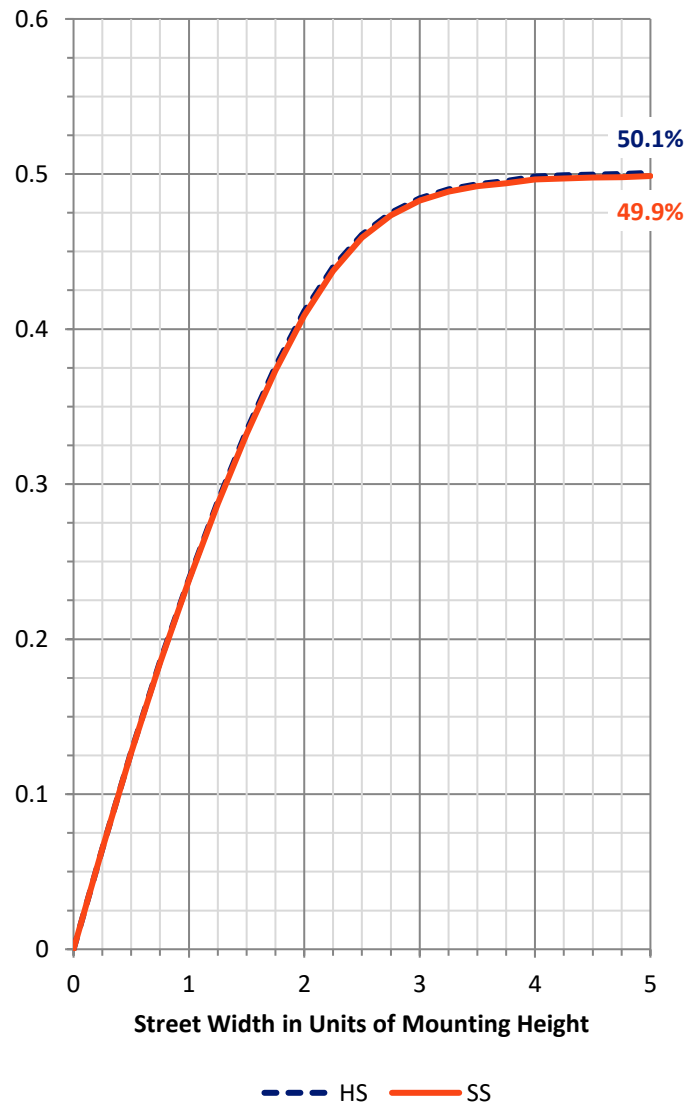
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2215.0	0.0	2215.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2215.0	0.0	2215.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4430.0	0.0	4430.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	0.9
10°-20°	115.6	2.6
20°-30°	196.0	4.4
30°-40°	321.3	7.3
40°-50°	537.2	12.1
50°-60°	943.1	21.3
60°-70°	1549.4	35.0
70°-80°	698.5	15.8
80°-90°	29.1	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°	4430.0	100.0
0°-180°	4430.0	100.0



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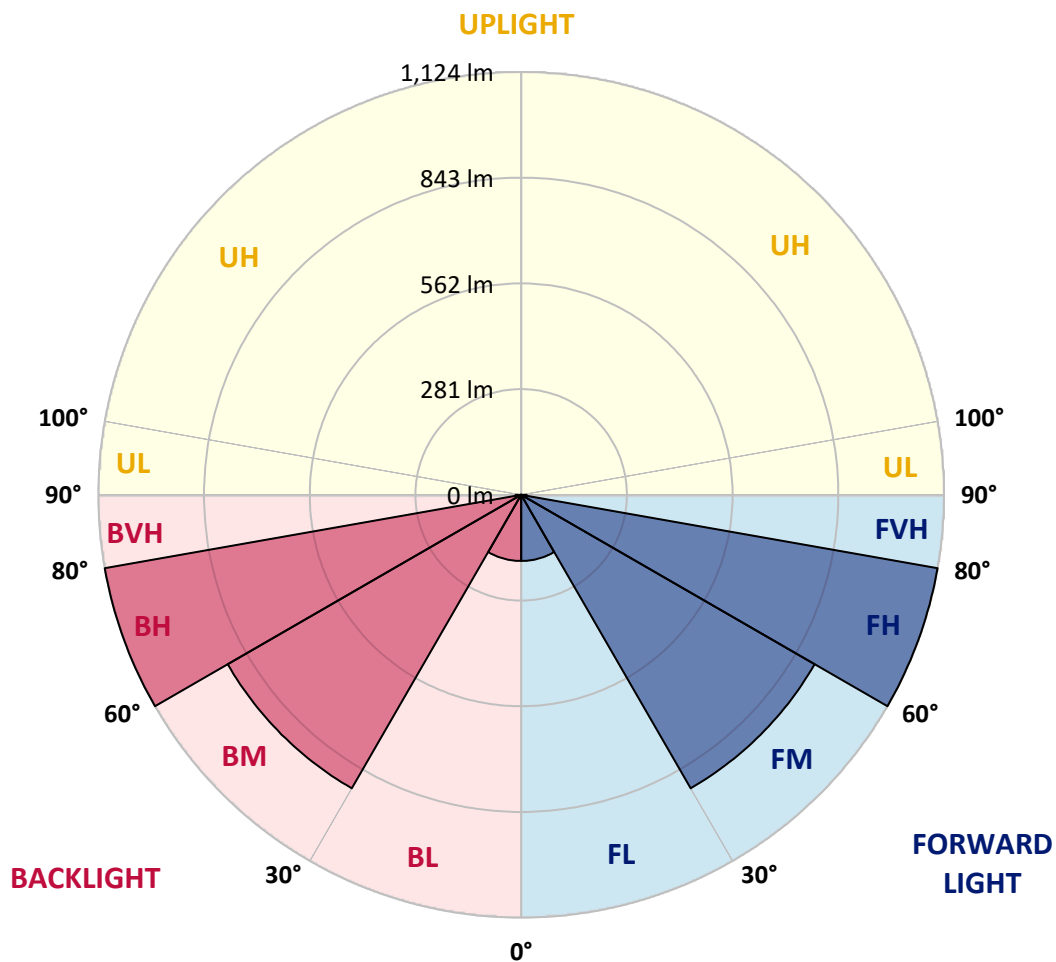
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.7	4.0			
FM	(30°-60°)	900.8	20.3			
FH	(60°-80°)	1123.9	25.4			G1/1800
FVH	(80°-90°)	14.5	0.3			G1/100
BL	(0°-30°)	175.7	4.0	B1/500		
BM	(30°-60°)	900.8	20.3	B1/1000		
BH	(60°-80°)	1123.9	25.4	B3/2500		G1/1800
BVH	(80°-90°)	14.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2
2.5°	421.0	421.0	421.0	421.0	419.2	419.2	419.2	419.2	419.2	419.2	419.2
5°	421.0	421.0	421.0	419.2	419.2	417.4	419.2	417.4	417.4	417.4	419.2
7.5°	421.0	421.0	421.0	419.2	419.2	417.4	417.4	415.6	415.6	415.6	415.6
10°	415.6	415.6	415.6	415.6	415.6	413.7	413.7	411.9	411.9	411.9	411.9
12.5°	410.1	411.9	410.1	410.1	411.9	411.9	410.1	408.3	406.5	406.5	408.3
15°	406.5	406.5	406.5	406.5	410.1	410.1	410.1	406.5	404.7	404.7	404.7
17.5°	402.9	402.9	402.9	406.5	408.3	410.1	408.3	406.5	404.7	401.1	401.1
20°	401.1	401.1	402.9	406.5	410.1	411.9	411.9	408.3	404.7	401.1	401.1
22.5°	401.1	401.1	404.7	410.1	413.7	415.6	415.6	411.9	408.3	404.7	404.7
25°	408.3	406.5	410.1	417.4	422.8	424.6	426.4	421.0	415.6	411.9	410.1
27.5°	419.2	421.0	424.6	431.8	439.0	437.2	439.0	435.4	431.8	426.4	426.4
30°	440.8	440.8	446.3	453.5	458.9	460.7	460.7	457.1	451.7	448.1	446.3
32.5°	466.1	466.1	471.6	480.6	484.2	486.0	484.2	480.6	473.4	467.9	466.1
35°	491.4	491.4	498.7	509.5	513.1	509.5	511.3	507.7	502.3	498.7	496.9
37.5°	522.1	522.1	531.2	540.2	545.6	542.0	547.4	545.6	538.4	534.8	533.0
40°	558.3	560.1	569.1	580.0	580.0	581.8	587.2	589.0	581.8	578.2	574.5
42.5°	603.5	607.1	614.3	625.1	626.9	626.9	634.2	636.0	632.4	625.1	621.5
45°	657.7	661.3	672.1	682.9	682.9	679.3	690.2	699.2	692.0	681.1	677.5
47.5°	720.9	724.5	739.0	748.0	751.6	742.6	758.8	769.7	760.6	753.4	746.2
50°	796.8	804.0	818.5	832.9	829.3	818.5	840.1	852.8	847.4	831.1	825.7
52.5°	878.1	883.5	912.4	926.9	926.9	914.2	943.1	954.0	937.7	916.0	908.8
55°	988.3	986.5	1006.4	1038.9	1051.5	1038.9	1062.4	1066.0	1044.3	1026.2	1013.6
57.5°	1102.1	1105.7	1132.8	1163.5	1181.6	1196.1	1196.1	1187.0	1156.3	1122.0	1114.8
60°	1234.0	1244.8	1277.4	1317.1	1353.3	1373.1	1342.4	1324.3	1277.4	1248.5	1237.6
62.5°	1380.4	1394.8	1443.6	1508.6	1566.4	1606.2	1555.6	1505.0	1445.4	1400.2	1393.0
65°	1425.5	1438.2	1533.9	1674.9	1844.7	1938.6	1777.8	1656.8	1515.9	1421.9	1411.1
67.5°	1326.2	1331.6	1452.6	1694.7	2036.2	2319.9	1965.7	1662.2	1447.2	1311.7	1304.5
70°	982.9	1024.4	1183.4	1488.8	2003.7	2471.6	1909.7	1443.6	1141.9	979.3	944.9
72.5°	576.4	567.3	688.4	988.3	1636.9	2193.4	1553.8	979.3	702.8	580.0	552.9
75°	225.8	229.5	287.3	457.1	926.9	1461.7	930.5	460.7	256.6	209.6	207.8
77.5°	77.7	79.5	86.7	110.2	298.1	603.5	307.1	112.0	84.9	90.3	92.1
80°	48.8	47.0	52.4	54.2	65.0	119.2	70.5	57.8	56.0	56.0	57.8
82.5°	25.3	27.1	36.1	37.9	39.7	45.2	45.2	43.4	37.9	28.9	25.3
85°	16.3	12.6	25.3	27.1	25.3	23.5	28.9	32.5	28.9	16.3	18.1
87.5°	7.2	7.2	12.6	12.6	12.6	9.0	12.6	18.1	18.1	7.2	7.2
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)