

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: P316336

Luminaire Tested: **GAN-SA2D-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13289 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

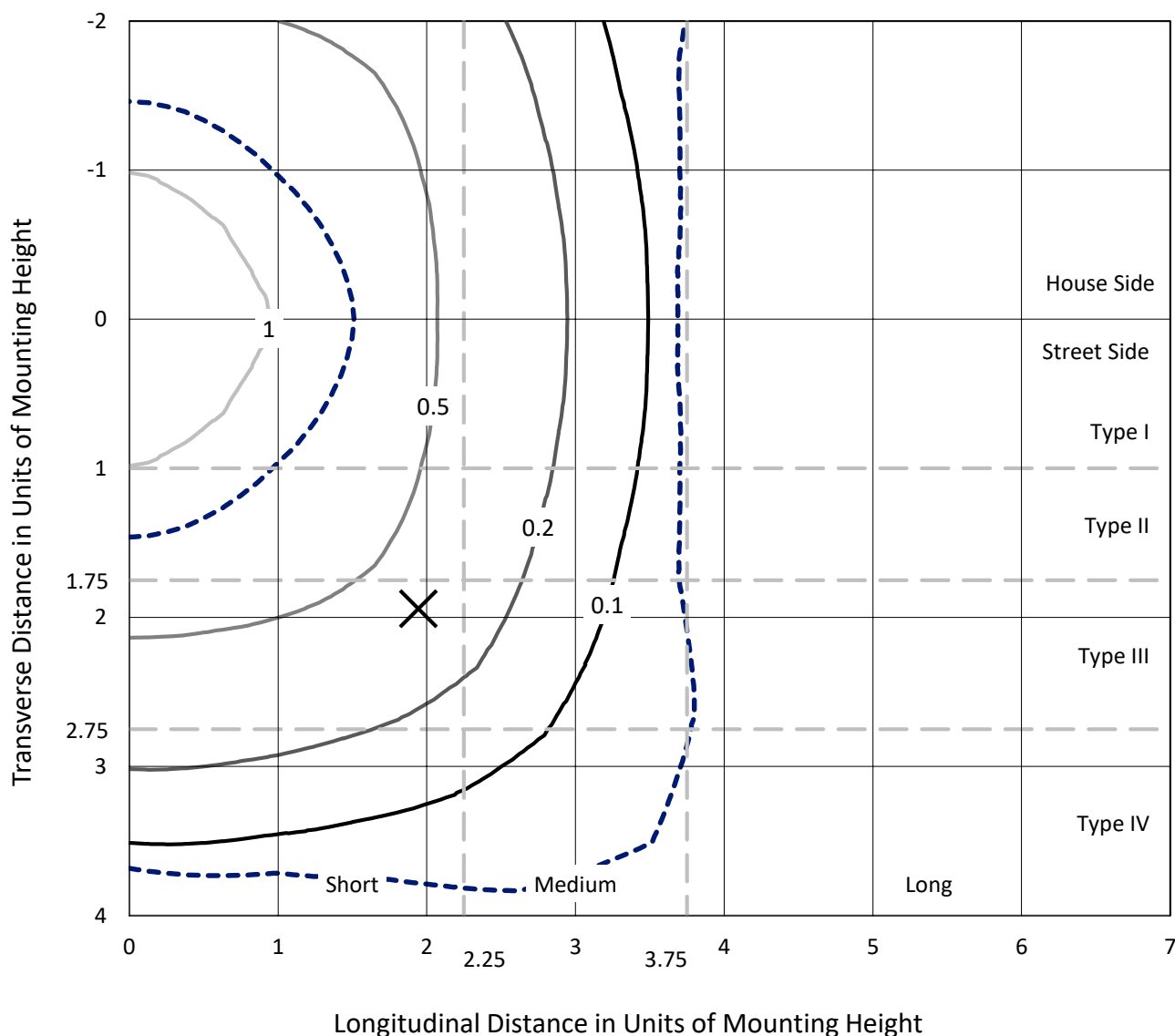
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

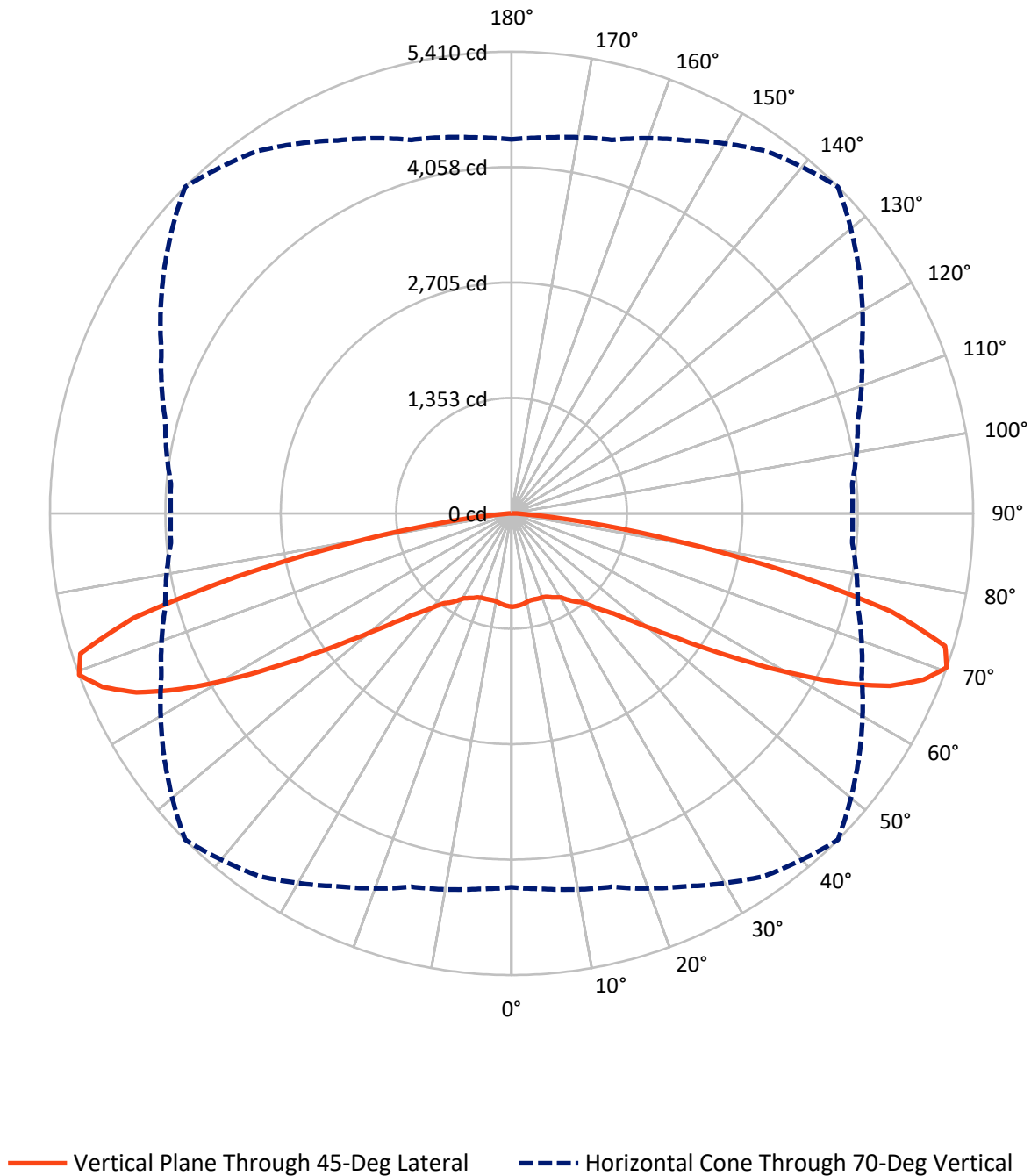
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	6644.5	0.0	6644.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6644.5	0.0	6644.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13289.0	0.0	13289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	0.8
10°-20°	298.2	2.2
20°-30°	508.4	3.8
30°-40°	794.3	6.0
40°-50°	1346.2	10.1
50°-60°	2455.0	18.5
60°-70°	4226.4	31.8
70°-80°	3312.8	24.9
80°-90°	245.6	1.8
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°	13289.0	100.0
0°-180°	13289.0	100.0

Coefficient of Utilization



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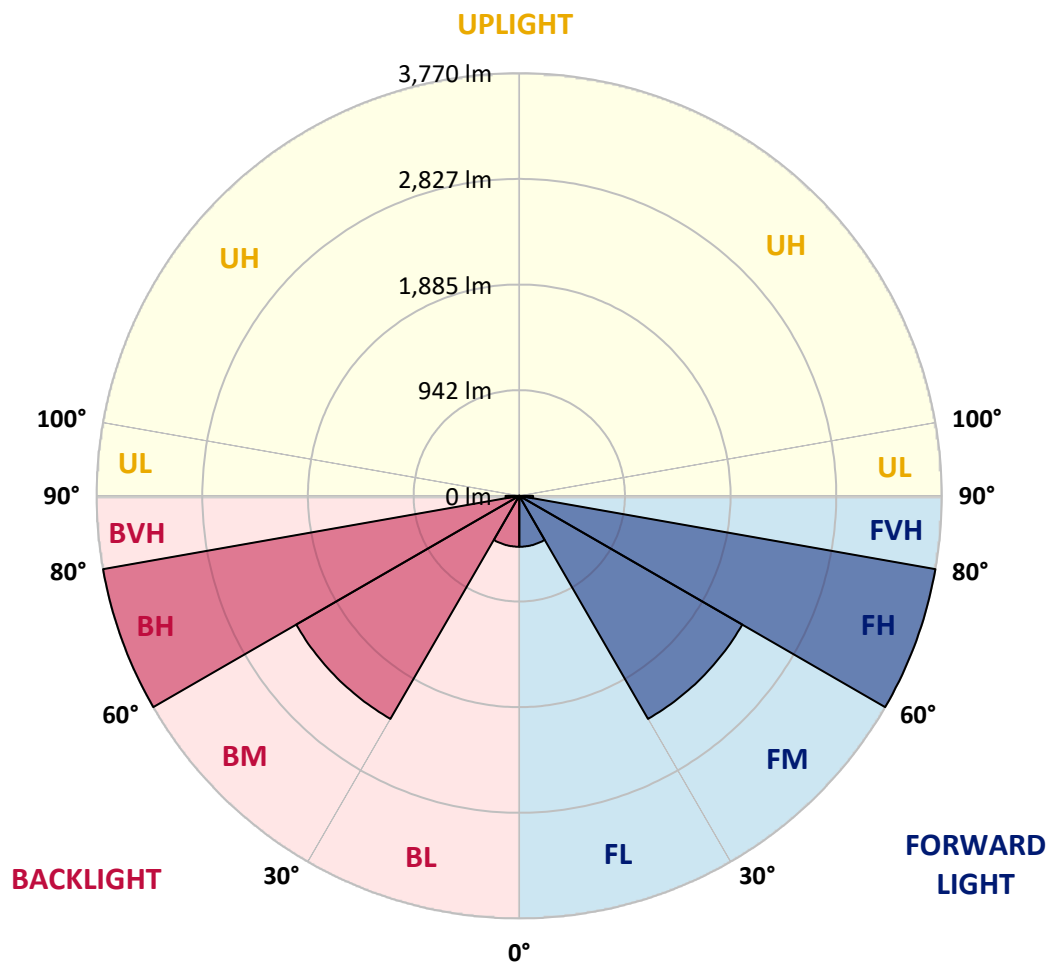
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.3	3.4			
FM	(30°-60°)	2297.8	17.3			
FH	(60°-80°)	3769.6	28.4			G2/5000
FVH	(80°-90°)	122.8	0.9			G2/225
BL	(0°-30°)	454.3	3.4	B1/500		
BM	(30°-60°)	2297.8	17.3	B2/2500		
BH	(60°-80°)	3769.6	28.4	B4/5000		G2/5000
BVH	(80°-90°)	122.8	0.9			G2/225
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°	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7
2.5°	1088.9	1090.2	1088.9	1089.7	1087.5	1088.4	1088.4	1088.4	1088.0	1088.4	1087.5
5°	1079.2	1080.1	1078.3	1079.2	1077.9	1079.2	1079.6	1079.2	1078.3	1078.7	1077.0
7.5°	1064.7	1065.6	1064.2	1065.6	1063.8	1066.0	1065.6	1064.2	1062.9	1062.9	1061.2
10°	1056.8	1057.2	1053.7	1052.4	1048.4	1049.3	1050.6	1051.9	1053.2	1055.9	1055.4
12.5°	1057.2	1057.2	1051.9	1046.2	1040.5	1041.8	1044.0	1048.8	1054.1	1059.0	1059.4
15°	1061.6	1061.2	1053.2	1044.0	1040.1	1044.0	1045.3	1048.4	1056.8	1065.1	1065.6
17.5°	1064.7	1064.7	1052.4	1041.8	1041.4	1047.5	1047.1	1048.4	1057.6	1069.9	1070.4
20°	1070.4	1070.4	1054.6	1043.1	1043.1	1049.7	1050.2	1052.4	1061.6	1075.2	1077.4
22.5°	1083.1	1083.6	1066.9	1057.6	1058.5	1062.5	1063.8	1067.3	1075.7	1090.6	1093.2
25°	1101.2	1102.0	1084.9	1079.6	1082.7	1090.2	1089.3	1091.9	1101.2	1115.7	1118.3
27.5°	1126.2	1124.0	1108.2	1106.0	1109.1	1114.3	1113.9	1114.3	1121.8	1135.0	1138.1
30°	1158.7	1157.9	1146.4	1147.8	1146.4	1144.7	1145.1	1148.6	1152.6	1163.1	1166.2
32.5°	1190.4	1191.3	1184.2	1190.8	1200.5	1207.1	1197.0	1187.3	1182.9	1188.6	1191.3
35°	1247.5	1249.7	1238.7	1234.4	1247.5	1266.9	1238.3	1222.5	1231.3	1238.7	1240.9
37.5°	1344.7	1346.0	1327.5	1310.0	1300.3	1318.8	1290.2	1291.5	1322.3	1336.3	1335.9
40°	1455.5	1455.9	1443.6	1428.2	1411.5	1415.9	1404.5	1408.0	1428.2	1441.0	1444.5
42.5°	1587.3	1586.0	1566.7	1544.7	1539.9	1544.3	1524.9	1522.3	1545.6	1568.4	1568.9
45°	1758.3	1755.3	1730.2	1706.0	1682.7	1673.1	1668.2	1681.0	1713.1	1734.2	1734.6
47.5°	1942.5	1934.2	1921.0	1901.6	1881.4	1871.8	1863.8	1870.0	1893.3	1901.6	1902.5
50°	2132.0	2133.7	2136.4	2128.9	2121.4	2118.4	2097.7	2085.8	2092.9	2077.5	2075.3
52.5°	2356.6	2360.1	2385.6	2407.2	2419.9	2426.5	2387.4	2346.5	2323.6	2293.8	2285.0
55°	2621.7	2627.4	2664.8	2724.5	2786.1	2818.6	2747.8	2671.4	2600.6	2544.8	2526.7
57.5°	2917.1	2927.2	2978.6	3093.4	3219.5	3296.4	3176.9	3038.0	2901.3	2820.8	2806.7
60°	3263.5	3273.1	3344.4	3508.8	3713.2	3828.8	3647.7	3420.4	3250.3	3173.4	3147.4
62.5°	3675.8	3676.7	3764.2	3956.3	4226.2	4387.1	4141.8	3838.0	3662.6	3569.9	3544.8
65°	4119.3	4121.5	4212.1	4419.6	4698.7	4873.7	4596.7	4280.2	4065.7	3929.0	3909.7
67.5°	4432.8	4442.0	4537.4	4787.1	5048.2	5206.0	4919.4	4561.6	4313.6	4150.6	4134.3
70°	4382.7	4418.7	4530.8	4822.2	5185.3	5410.4	4971.7	4528.2	4201.1	4008.6	3994.9
72.5°	3822.2	3891.2	4040.7	4423.1	5003.8	5313.7	4686.4	4055.6	3685.5	3521.5	3496.9
75°	2602.8	2714.9	2940.4	3492.1	4275.0	4600.7	3945.3	3233.6	2885.4	2658.6	2641.9
77.5°	1160.5	1186.0	1471.7	2106.9	2950.1	3303.9	2866.5	2115.3	1587.8	1266.4	1198.7
80°	323.5	327.5	436.9	784.7	1476.6	1941.2	1585.1	824.2	463.3	326.6	307.7
82.5°	102.9	111.7	136.3	203.5	496.3	885.8	509.5	219.8	156.5	124.8	112.5
85°	50.1	49.7	69.0	82.6	126.6	196.1	135.0	102.0	89.2	59.3	53.6
87.5°	21.1	21.5	32.1	29.0	36.9	31.7	43.5	45.7	47.9	26.4	22.9
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)