

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: P316096

Luminaire Tested: **GAN-SA2D-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316096
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-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 13984 lumens
Efficiency: N/A
Efficacy: 108.4 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

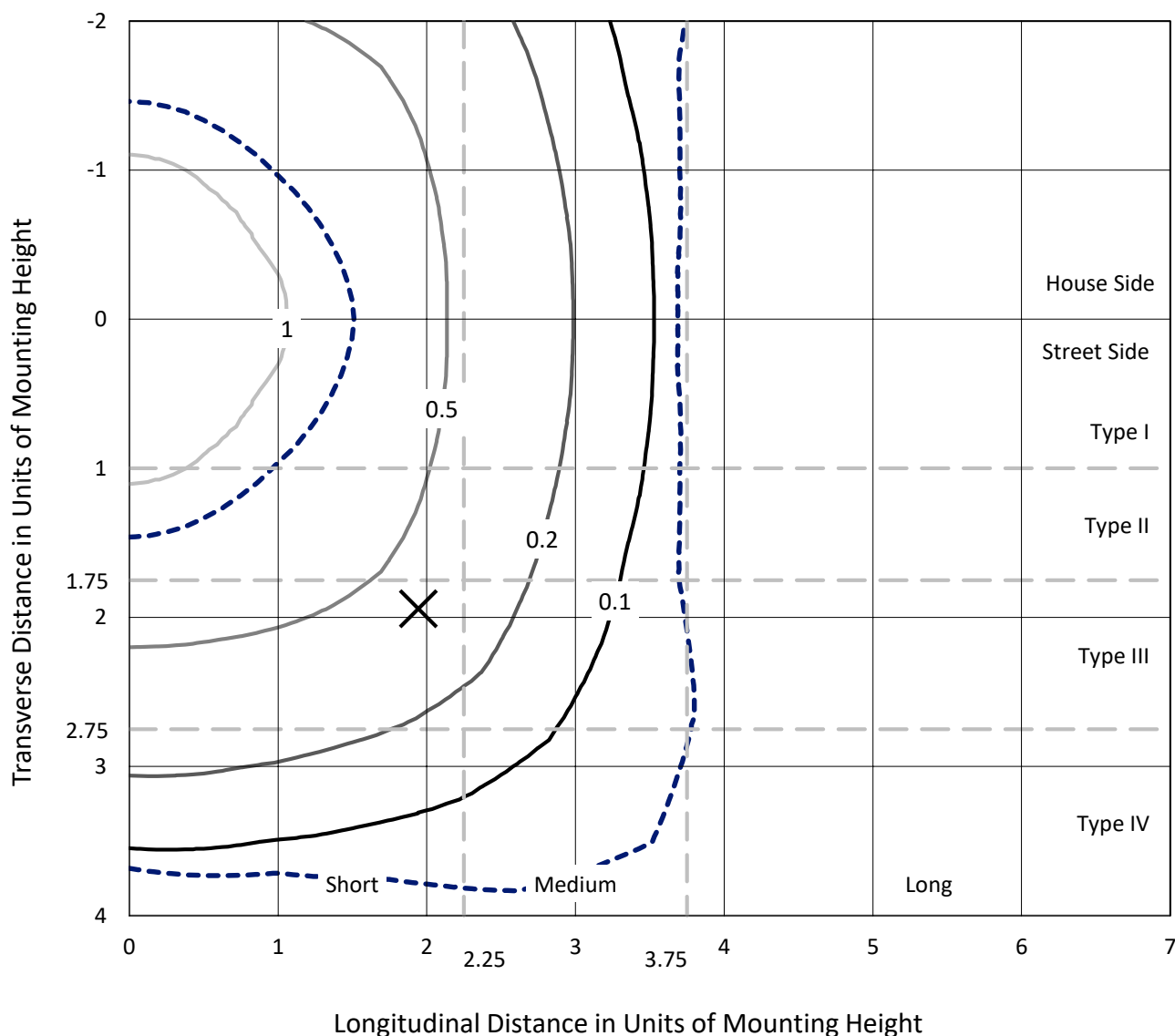


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

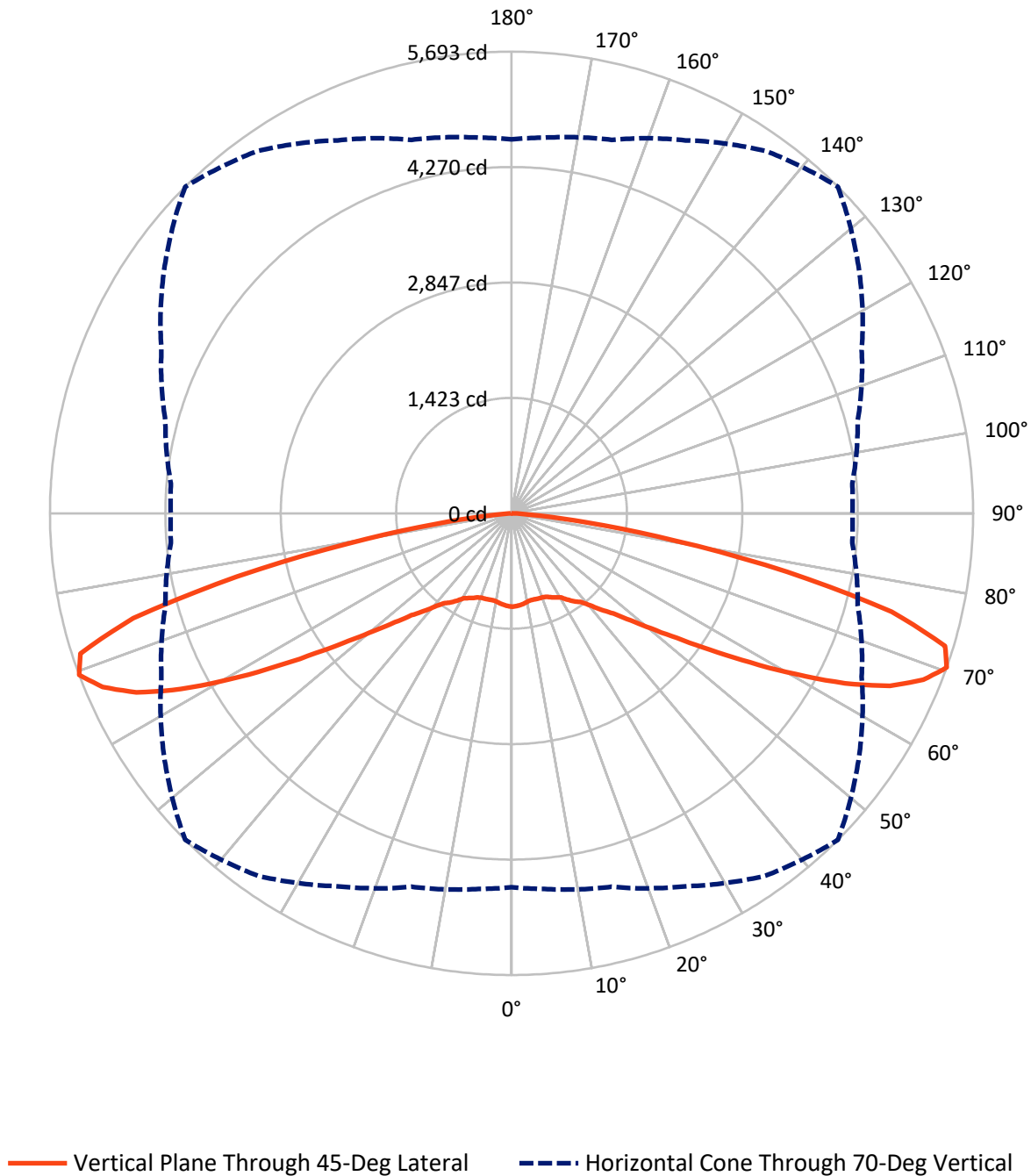
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	6992.0	0.0	6992.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6992.0	0.0	6992.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13984.0	0.0	13984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	0.8
10°-20°	313.8	2.2
20°-30°	535.0	3.8
30°-40°	835.9	6.0
40°-50°	1416.6	10.1
50°-60°	2583.4	18.5
60°-70°	4447.4	31.8
70°-80°	3486.1	24.9
80°-90°	258.5	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°	13984.0	100.0
0°-180°	13984.0	100.0

Coefficient of Utilization



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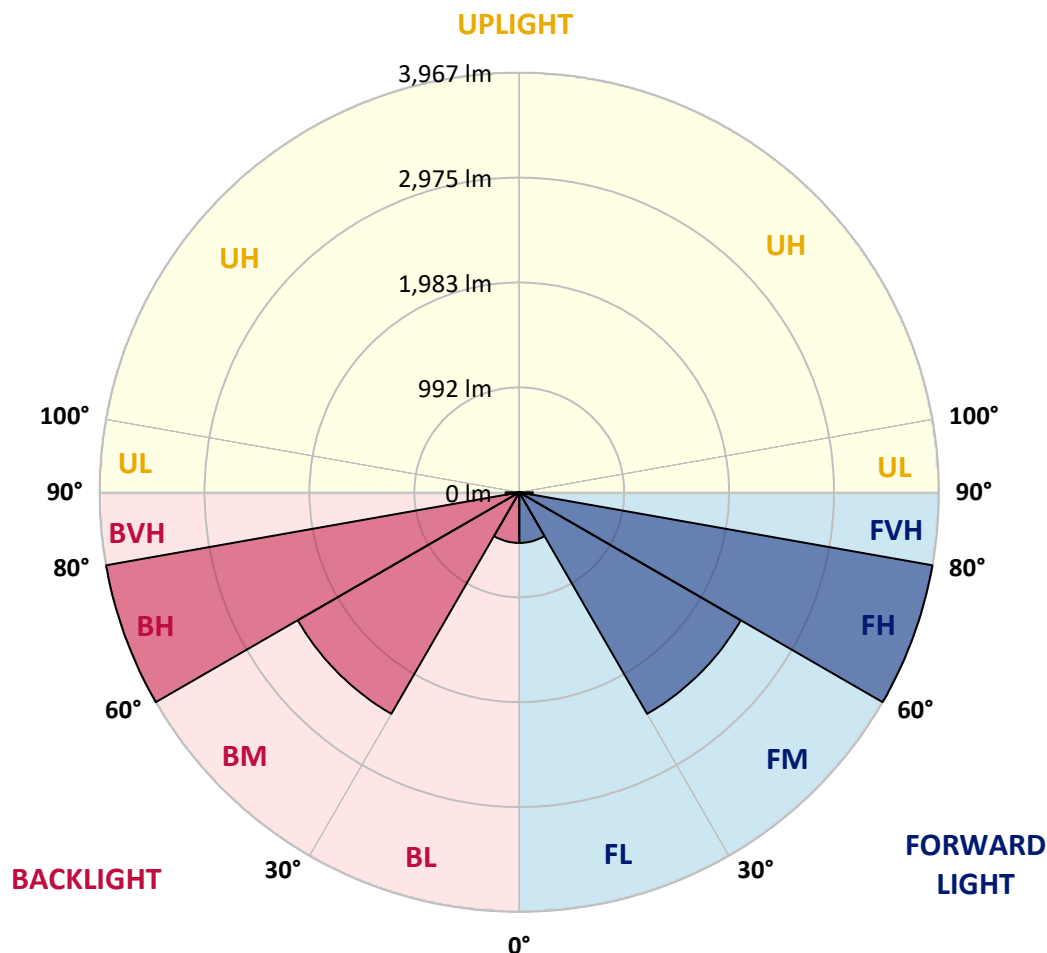
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	478.1	3.4			
FM	(30°-60°)	2417.9	17.3			
FH	(60°-80°)	3966.7	28.4			G2/5000
FVH	(80°-90°)	129.2	0.9			G2/225
BL	(0°-30°)	478.1	3.4	B1/500		
BM	(30°-60°)	2417.9	17.3	B2/2500		
BH	(60°-80°)	3966.7	28.4	B4/5000		G2/5000
BVH	(80°-90°)	129.2	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°	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9
2.5°	1145.8	1147.2	1145.8	1146.7	1144.4	1145.3	1145.3	1145.3	1144.9	1145.3	1144.4
5°	1135.6	1136.5	1134.7	1135.6	1134.2	1135.6	1136.1	1135.6	1134.7	1135.2	1133.3
7.5°	1120.4	1121.3	1119.9	1121.3	1119.4	1121.7	1121.3	1119.9	1118.5	1118.5	1116.7
10°	1112.0	1112.5	1108.8	1107.4	1103.2	1104.2	1105.6	1106.9	1108.3	1111.1	1110.6
12.5°	1112.5	1112.5	1106.9	1100.9	1094.9	1096.3	1098.6	1103.7	1109.3	1114.3	1114.8
15°	1117.1	1116.7	1108.3	1098.6	1094.5	1098.6	1100.0	1103.2	1112.0	1120.8	1121.3
17.5°	1120.4	1120.4	1107.4	1096.3	1095.8	1102.3	1101.9	1103.2	1113.0	1125.9	1126.4
20°	1126.4	1126.4	1109.7	1097.7	1097.7	1104.6	1105.1	1107.4	1117.1	1131.5	1133.8
22.5°	1139.8	1140.2	1122.7	1113.0	1113.9	1118.0	1119.4	1123.1	1131.9	1147.6	1150.4
25°	1158.7	1159.7	1141.6	1136.1	1139.3	1147.2	1146.3	1149.0	1158.7	1174.0	1176.8
27.5°	1185.1	1182.8	1166.2	1163.8	1167.1	1172.6	1172.2	1172.6	1180.5	1194.4	1197.6
30°	1219.3	1218.4	1206.4	1207.8	1206.4	1204.5	1205.0	1208.7	1212.9	1224.0	1227.2
32.5°	1252.7	1253.6	1246.2	1253.1	1263.3	1270.2	1259.6	1249.4	1244.8	1250.8	1253.6
35°	1312.8	1315.1	1303.5	1298.9	1312.8	1333.1	1303.1	1286.4	1295.7	1303.5	1305.8
37.5°	1415.0	1416.4	1397.0	1378.5	1368.3	1387.7	1357.7	1359.0	1391.4	1406.2	1405.8
40°	1531.6	1532.0	1519.1	1502.9	1485.3	1490.0	1477.9	1481.6	1502.9	1516.3	1520.0
42.5°	1670.4	1669.0	1648.6	1625.5	1620.4	1625.0	1604.7	1601.9	1626.4	1650.5	1650.9
45°	1850.3	1847.1	1820.7	1795.3	1770.7	1760.6	1755.5	1768.9	1802.7	1824.9	1825.3
47.5°	2044.1	2035.3	2021.5	2001.1	1979.8	1969.6	1961.3	1967.8	1992.3	2001.1	2002.0
50°	2243.5	2245.3	2248.1	2240.2	2232.4	2229.1	2207.4	2194.9	2202.3	2186.1	2183.8
52.5°	2479.9	2483.6	2510.4	2533.1	2546.5	2553.4	2512.2	2469.2	2445.2	2413.7	2404.5
55°	2758.8	2764.8	2804.1	2867.0	2931.8	2966.0	2891.6	2811.1	2736.6	2677.8	2658.9
57.5°	3069.6	3080.3	3134.4	3255.1	3387.9	3468.8	3343.0	3196.9	3053.0	2968.3	2953.5
60°	3434.2	3444.3	3519.3	3692.3	3907.4	4029.0	3838.4	3599.3	3420.3	3339.3	3312.0
62.5°	3868.0	3869.0	3961.0	4163.2	4447.2	4616.5	4358.4	4038.7	3854.2	3756.6	3730.2
65°	4334.8	4337.1	4432.4	4650.7	4944.5	5128.6	4837.1	4504.1	4278.4	4134.5	4114.1
67.5°	4664.6	4674.3	4774.7	5037.4	5312.2	5478.3	5176.7	4800.1	4539.2	4367.6	4350.5
70°	4611.9	4649.8	4767.8	5074.4	5456.5	5693.4	5231.7	4765.0	4420.8	4218.2	4203.9
72.5°	4022.1	4094.7	4252.0	4654.4	5265.5	5591.6	4931.5	4267.7	3878.2	3705.7	3679.8
75°	2738.9	2856.9	3094.2	3674.7	4498.5	4841.3	4151.6	3402.7	3036.3	2797.6	2780.1
77.5°	1221.2	1248.0	1548.7	2217.1	3104.3	3476.7	3016.4	2225.9	1670.8	1332.7	1261.4
80°	340.5	344.6	459.8	825.7	1553.8	2042.7	1668.0	867.3	487.6	343.7	323.8
82.5°	108.2	117.5	143.4	214.2	522.2	932.1	536.1	231.3	164.7	131.4	118.4
85°	52.7	52.3	72.6	87.0	133.2	206.3	142.0	107.3	93.9	62.4	56.4
87.5°	22.2	22.7	33.8	30.5	38.9	33.3	45.8	48.1	50.4	27.8	24.1
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)