

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P522035

Luminaire Tested: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522035
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4_5700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9792.6 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

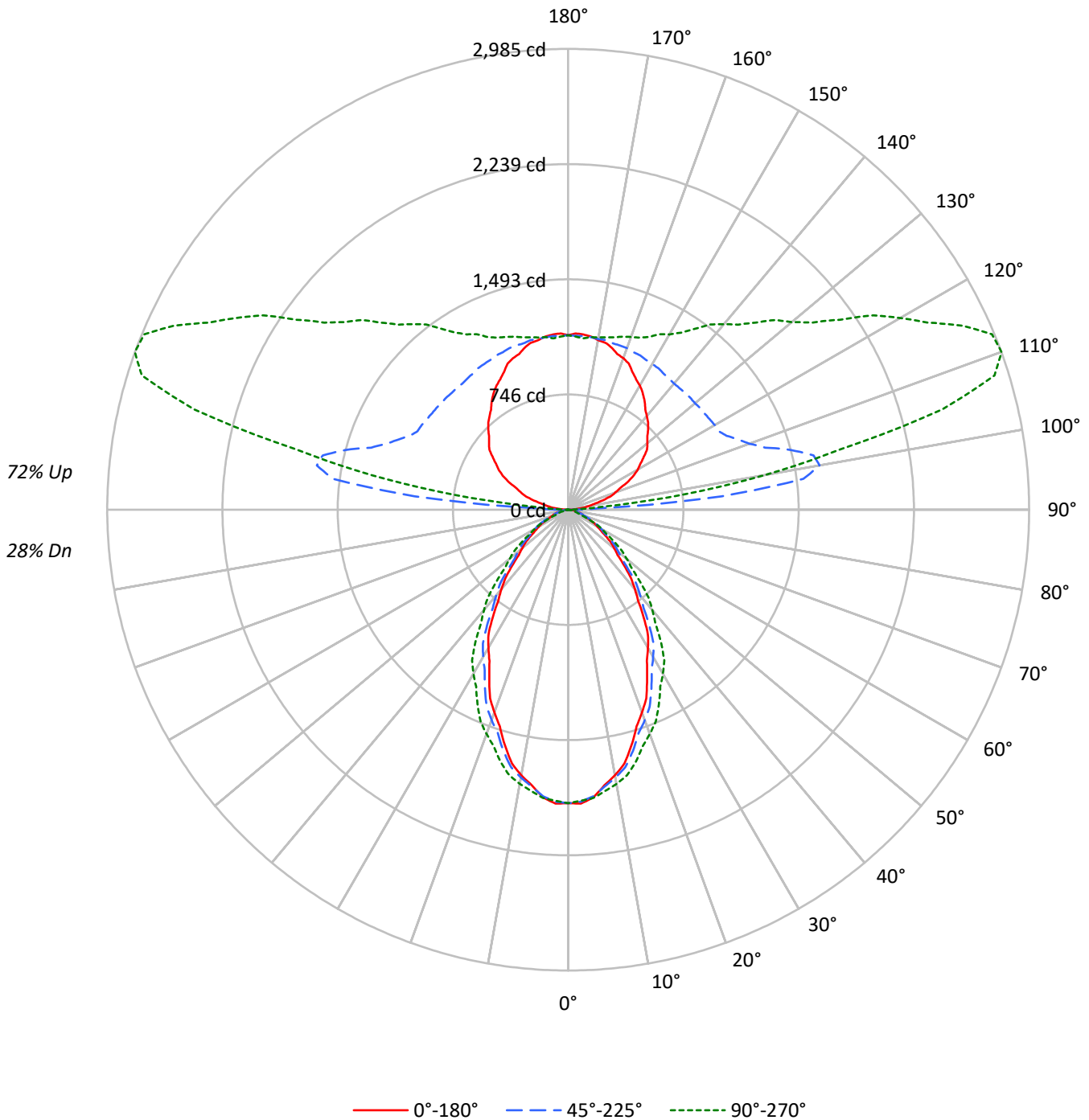
Input Watts (W): 82.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	94	90	86	83	84	80	78	75	63	61	60	47	46	45	33	32	32	25				
2	86	79	73	69	77	71	66	62	56	53	50	42	41	39	30	29	28	22				
3	79	70	63	58	70	63	57	53	50	46	43	38	36	34	27	26	24	20				
4	72	62	55	50	65	56	50	45	45	41	37	34	32	29	25	23	22	17				
5	66	56	48	43	59	50	44	39	40	36	32	31	28	26	22	21	19	16				
6	61	50	43	37	55	46	39	34	37	32	29	28	25	23	21	19	17	14				
7	57	45	38	33	51	41	35	30	33	29	25	26	23	20	19	17	16	13				
8	53	41	34	29	47	38	31	27	31	26	23	24	21	18	18	16	14	12				
9	49	38	31	26	44	34	28	24	28	24	20	22	19	17	16	14	13	11				
10	46	35	28	23	41	32	26	22	26	21	18	20	17	15	15	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17538	17538	17538
5°	17319	17257	17358
10°	16363	16511	16894
15°	15105	15456	16149
20°	13717	14233	15174
25°	12304	12974	14137
30°	11001	11720	13062
35°	9620	10315	11790
40°	8097	8739	10206
45°	6682	7259	8522
50°	5579	6082	7099
55°	4736	5220	5863
60°	4048	4525	4680
65°	3222	3805	3024
70°	2857	2970	1845
75°	2645	2410	1130
80°	2439	2216	972
85°	2212	2032	794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.8
10°-20°	453.5	4.6
20°-30°	587.4	6.0
30°-40°	575.2	5.9
40°-50°	440.3	4.5
50°-60°	293.4	3.0
60°-70°	160.1	1.6
70°-80°	66.7	0.7
80°-90°	18.9	0.2
90°-100°	515.2	5.3
100°-110°	1465.8	15.0
110°-120°	1404.4	14.3
120°-130°	1111.5	11.4
130°-140°	892.2	9.1
140°-150°	698.5	7.1
150°-160°	511.1	5.2
160°-170°	316.6	3.2
170°-180°	107.4	1.1
0°-30°	1215.3	12.4
0°-40°	1790.5	18.3
0°-60°	2524.2	25.8
0°-90°	2769.9	28.3
90°-120°	3385.4	34.6
90°-150°	6087.6	62.2
90°-180°	7023.0	71.7
0°-180°	9792.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1870	1851	1863	1868	1874	174
15°	1581	1576	1618	1662	1691	442
25°	1209	1212	1274	1330	1389	556
35°	854	858	916	977	1047	531
45°	512	522	556	598	653	399
55°	294	307	324	337	364	267
65°	148	160	174	152	138	153
75°	74	74	68	46	32	79
85°	21	21	19	12	8	23
90°	0	0	0	0	0	3
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.9	1900.9	1900.9	1900.9	1900.9
2.5°	1905.5	1888.6	1892.8	1892.7	1887.5
5°	1870.0	1851.2	1863.3	1867.6	1874.2
7.5°	1800.6	1786.4	1808.4	1824.8	1838.0
10°	1746.6	1734.3	1762.4	1786.1	1803.3
12.5°	1683.8	1673.6	1708.4	1740.2	1762.6
15°	1581.4	1575.7	1618.1	1662.1	1690.7
17.5°	1471.8	1469.0	1517.7	1569.1	1605.6
20°	1397.1	1396.3	1449.6	1503.1	1545.5
22.5°	1321.7	1323.5	1379.6	1435.2	1483.5
25°	1208.6	1211.8	1274.5	1330.0	1388.7
27.5°	1104.0	1105.4	1170.2	1228.8	1291.5
30°	1032.6	1036.7	1100.1	1160.8	1226.1
32.5°	961.2	965.9	1028.1	1090.8	1157.4
35°	854.1	858.2	915.8	977.4	1046.8
37.5°	743.7	749.2	800.4	858.6	926.8
40°	672.3	680.4	725.6	780.5	847.4
42.5°	603.5	613.6	655.6	707.7	768.0
45°	512.1	521.9	556.3	598.4	653.1
47.5°	433.4	444.6	471.1	507.3	554.0
50°	388.7	399.3	423.7	450.6	494.6
52.5°	349.3	359.9	381.7	402.4	439.9
55°	294.4	306.7	324.5	336.8	364.5
57.5°	249.4	261.1	275.2	280.8	297.6
60°	219.4	232.4	245.2	244.6	253.6
62.5°	192.0	203.1	215.9	207.0	207.5
65°	147.6	159.9	174.3	152.3	138.5
67.5°	119.3	121.9	136.8	106.2	89.7
70°	105.9	105.9	110.1	82.3	68.4
72.5°	93.2	93.2	89.4	66.9	52.4
75°	74.2	74.2	67.6	46.4	31.7
77.5°	57.2	56.6	51.7	34.6	23.0
80°	45.9	45.9	41.7	27.3	18.3
82.5°	35.9	35.9	32.4	21.3	13.7
85°	20.9	20.9	19.2	12.4	7.5
87.5°	7.3	7.3	6.7	4.0	3.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)