

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: P522062

Luminaire Tested: SQ4-WB-150U-125D-92765-1D-UNV-STD-W-4_6500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522062
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-125D-92765-1D-UNV-STD-W-4_6500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11743.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

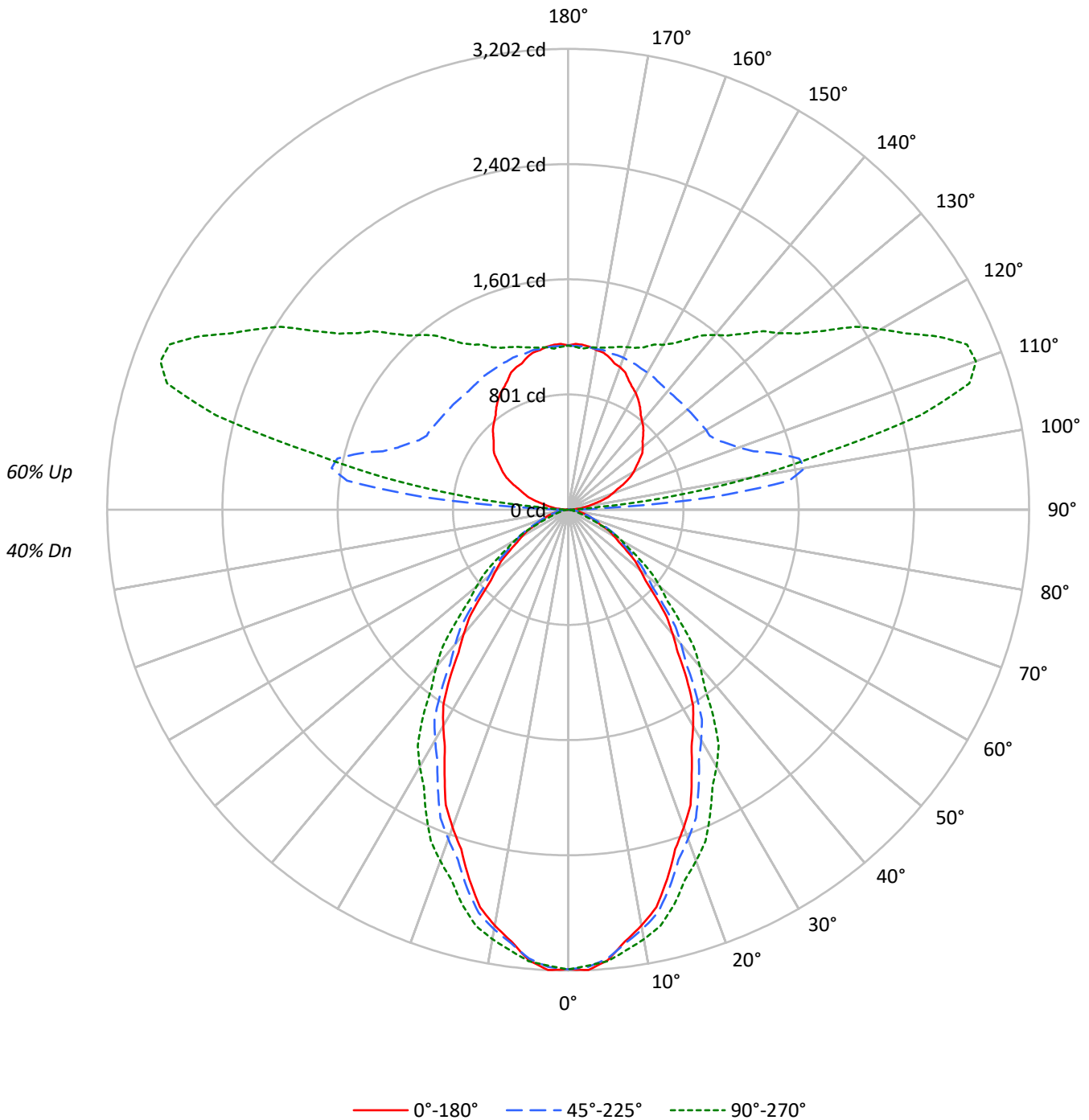
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40																				
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35																				
2	88	82	76	72	80	75	70	66	62	58	56	50	48	46	39	37	36	31																				
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27																				
4	75	65	58	52	68	60	53	49	50	45	42	41	37	35	32	30	28	24																				
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22																				
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20																				
7	59	48	40	35	54	44	38	33	37	32	29	31	27	25	25	23	21	18																				
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16																				
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15																				
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29466	29466	29466
5°	29098	28994	29162
10°	27491	27740	28384
15°	25379	25967	27132
20°	23047	23913	25495
25°	20671	21798	23752
30°	18483	19692	21946
35°	16163	17331	19808
40°	13604	14684	17148
45°	11226	12196	14317
50°	9373	10218	11928
55°	7957	8768	9851
60°	6802	7602	7861
65°	5414	6394	5078
70°	4802	4990	3099
75°	4445	4046	1900
80°	4096	3725	1636
85°	3705	3409	1334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	2.5
10°-20°	761.9	6.5
20°-30°	986.9	8.4
30°-40°	966.4	8.2
40°-50°	739.8	6.3
50°-60°	492.9	4.2
60°-70°	269.0	2.3
70°-80°	112.1	1.0
80°-90°	31.7	0.3
90°-100°	520.1	4.4
100°-110°	1479.7	12.6
110°-120°	1417.7	12.1
120°-130°	1122.1	9.6
130°-140°	900.6	7.7
140°-150°	705.1	6.0
150°-160°	515.9	4.4
160°-170°	319.6	2.7
170°-180°	108.4	0.9
0°-30°	2041.8	17.4
0°-40°	3008.2	25.6
0°-60°	4240.9	36.1
0°-90°	4653.8	39.6
90°-120°	3417.5	29.1
90°-150°	6145.3	52.3
90°-180°	7089.0	60.4
0°-180°	11743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3194	3194	3194	3194	3194	
5°	3142	3110	3131	3138	3149	292
15°	2657	2647	2719	2793	2840	742
25°	2031	2036	2141	2235	2333	934
35°	1435	1442	1539	1642	1759	892
45°	860	877	935	1006	1097	671
55°	495	515	545	566	612	449
65°	248	269	293	256	233	258
75°	125	125	114	78	53	133
85°	35	35	32	21	13	38
90°	0	0	0	0	0	4
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3193.7	3193.7	3193.7	3193.7	3193.7
2.5°	3201.5	3173.0	3180.2	3180.0	3171.2
5°	3141.8	3110.3	3130.6	3137.9	3148.8
7.5°	3025.2	3001.4	3038.4	3065.8	3088.0
10°	2934.4	2913.9	2961.0	3000.9	3029.7
12.5°	2829.0	2811.8	2870.2	2923.8	2961.3
15°	2657.0	2647.4	2718.6	2792.6	2840.5
17.5°	2472.8	2468.2	2549.9	2636.2	2697.6
20°	2347.3	2345.9	2435.5	2525.4	2596.7
22.5°	2220.6	2223.6	2317.8	2411.3	2492.4
25°	2030.6	2036.0	2141.3	2234.6	2333.2
27.5°	1854.8	1857.3	1966.1	2064.6	2169.8
30°	1734.9	1741.7	1848.4	1950.4	2060.0
32.5°	1614.9	1622.9	1727.3	1832.7	1944.5
35°	1435.0	1441.8	1538.7	1642.2	1758.7
37.5°	1249.4	1258.8	1344.7	1442.6	1557.2
40°	1129.5	1143.2	1219.2	1311.4	1423.8
42.5°	1014.0	1031.0	1101.5	1189.0	1290.4
45°	860.4	876.9	934.7	1005.5	1097.3
47.5°	728.1	747.0	791.5	852.4	930.8
50°	653.0	670.8	711.9	757.0	831.0
52.5°	586.9	604.7	641.3	676.0	739.1
55°	494.7	515.2	545.1	565.8	612.4
57.5°	419.0	438.7	462.4	471.8	500.0
60°	368.6	390.5	412.0	410.9	426.0
62.5°	322.6	341.2	362.7	347.8	348.7
65°	248.0	268.6	292.9	255.9	232.6
67.5°	200.4	204.8	229.8	178.5	150.8
70°	178.0	178.0	185.0	138.2	114.9
72.5°	156.7	156.7	150.2	112.4	88.0
75°	124.7	124.7	113.5	77.9	53.3
77.5°	96.1	95.0	86.9	58.1	38.7
80°	77.1	77.1	70.1	45.9	30.8
82.5°	60.3	60.3	54.4	35.9	23.0
85°	35.0	35.0	32.2	20.8	12.6
87.5°	12.3	12.3	11.2	6.7	5.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)