

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: P521334

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

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_6500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK 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: 10544.6 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

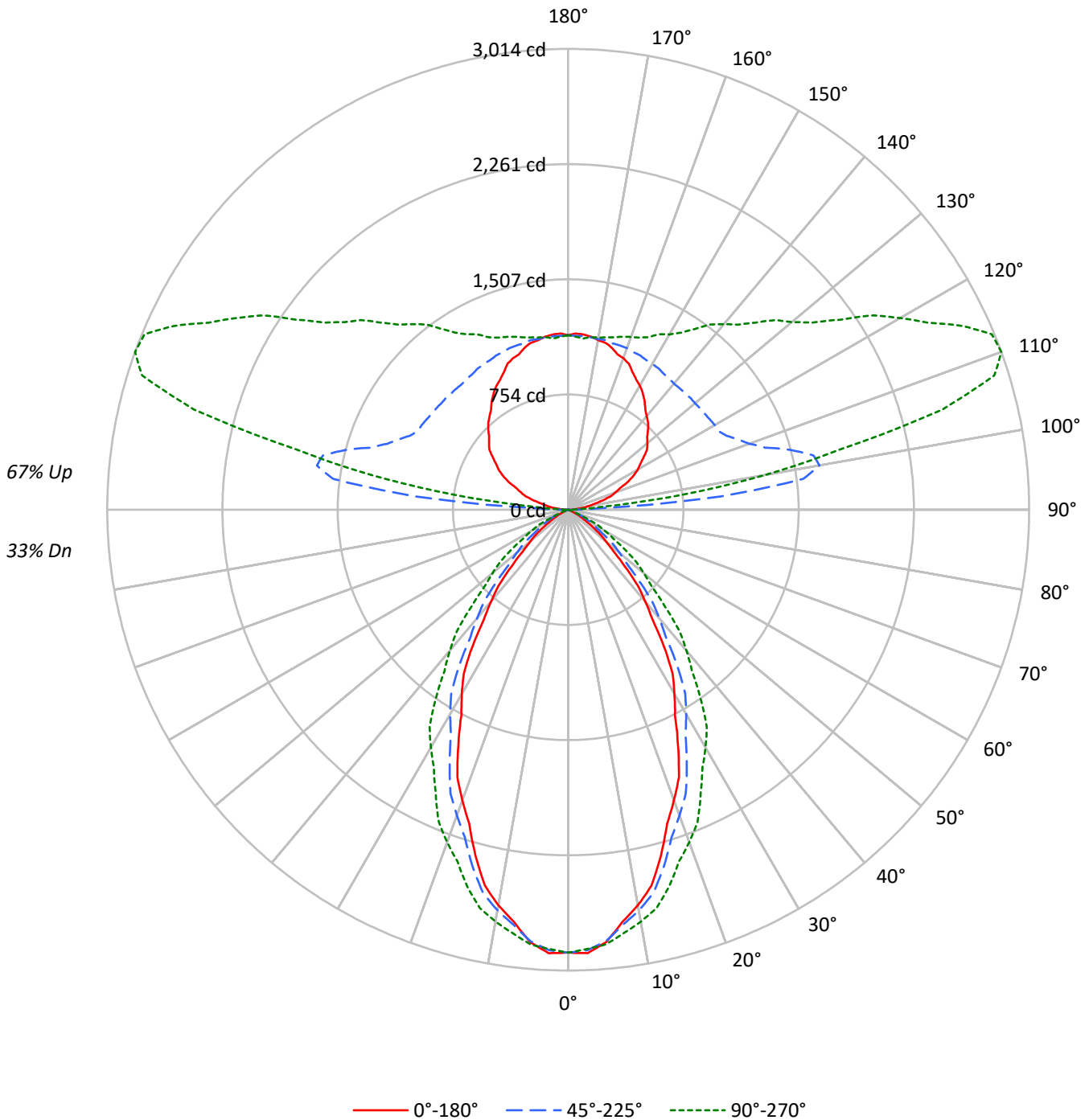
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521334

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_6500K

Luminous Intensity Polar Plot



TEST NUMBER: P521334

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_6500K

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33																				
1	95	91	88	85	86	83	80	77	66	64	63	51	50	49	37	37	36	30																				
2	88	81	76	71	79	74	69	65	59	56	54	46	45	43	34	33	32	27																				
3	81	72	66	61	73	66	60	56	54	50	47	42	40	38	32	30	29	24																				
4	74	65	58	53	67	59	53	49	48	44	41	38	36	33	29	27	26	22																				
5	69	58	51	46	62	53	47	42	44	39	36	35	32	30	27	25	24	20																				
6	64	53	45	40	58	48	42	37	40	35	32	32	29	27	25	23	21	18																				
7	59	48	41	36	53	44	38	33	37	32	29	30	26	24	23	21	20	17																				
8	55	44	37	32	50	40	34	30	34	29	26	27	24	22	21	19	18	15																				
9	51	40	33	29	47	37	31	27	31	27	23	25	22	20	20	18	16	14																				
10	48	37	30	26	44	34	28	24	29	24	21	24	20	18	19	17	15	13																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26725	26725	26725
5°	26294	26229	26424
10°	24603	24932	25627
15°	22367	23076	24362
20°	19854	20886	22716
25°	17290	18660	20871
30°	14809	16437	19124
35°	12279	13953	17015
40°	9435	11156	14499
45°	6820	8447	11666
50°	4646	6295	9252
55°	3021	4554	7190
60°	1733	3207	5198
65°	458	1958	2631
70°	227	604	755
75°	100	50	0
80°	74	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11666 cd/sqm

TEST NUMBER: P521334

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	2.5
10°-20°	676.0	6.4
20°-30°	846.3	8.0
30°-40°	781.7	7.4
40°-50°	525.3	5.0
50°-60°	271.3	2.6
60°-70°	85.0	0.8
70°-80°	5.4	0.1
80°-90°	0.1	0.0
90°-100°	520.1	4.9
100°-110°	1479.7	14.0
110°-120°	1417.7	13.4
120°-130°	1122.1	10.6
130°-140°	900.6	8.5
140°-150°	705.1	6.7
150°-160°	515.9	4.9
160°-170°	319.6	3.0
170°-180°	108.4	1.0
0°-30°	1786.7	16.9
0°-40°	2568.4	24.4
0°-60°	3364.9	31.9
0°-90°	3455.4	32.8
90°-120°	3417.5	32.4
90°-150°	6145.3	58.3
90°-180°	7089.0	67.2
0°-180°	10544.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2839	2810	2832	2842	2853	263
15°	2342	2333	2416	2497	2550	652
25°	1698	1712	1833	1958	2050	779
35°	1090	1118	1239	1385	1511	675
45°	523	554	647	774	894	411
55°	188	219	283	363	447	175
65°	21	40	90	108	120	35
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
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	

TEST NUMBER: P521334

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2896.6	2896.6	2896.6	2896.6	2896.6
2.5°	2903.3	2875.9	2883.1	2883.0	2875.3
5°	2839.1	2810.4	2832.1	2842.2	2853.1
7.5°	2719.2	2696.7	2738.5	2769.9	2792.6
10°	2626.1	2606.9	2661.2	2703.9	2735.4
12.5°	2518.5	2503.7	2569.2	2627.9	2668.2
15°	2341.7	2333.4	2415.9	2497.0	2550.5
17.5°	2152.2	2151.9	2246.1	2346.8	2411.2
20°	2022.1	2026.3	2127.2	2238.3	2313.6
22.5°	1892.1	1901.7	2009.5	2125.3	2211.6
25°	1698.4	1712.1	1833.0	1958.4	2050.2
27.5°	1512.3	1532.3	1659.5	1789.8	1901.6
30°	1390.1	1413.4	1542.9	1680.0	1795.1
32.5°	1270.2	1297.9	1424.0	1569.1	1686.4
35°	1090.2	1117.7	1238.8	1384.6	1510.7
37.5°	904.4	931.3	1049.6	1193.1	1329.3
40°	783.4	813.5	926.3	1065.4	1203.8
42.5°	673.5	703.6	809.7	946.4	1077.1
45°	522.7	554.2	647.4	773.5	894.1
47.5°	397.7	432.0	513.7	627.8	737.7
50°	323.7	358.0	438.6	539.1	644.6
52.5°	264.3	297.5	370.2	464.9	561.7
55°	187.8	219.3	283.1	363.4	447.0
57.5°	129.8	156.9	214.1	281.2	346.7
60°	93.9	119.9	173.8	228.2	281.7
62.5°	62.5	86.3	139.0	180.7	216.6
65°	21.0	40.2	89.7	108.2	120.5
67.5°	10.7	12.8	47.1	49.7	53.8
70°	8.4	8.4	22.4	23.9	28.0
72.5°	6.2	6.2	9.0	11.5	12.3
75°	2.8	2.8	1.4	0.0	0.0
77.5°	1.4	1.4	1.1	0.0	0.0
80°	1.4	1.4	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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

TEST NUMBER: P521334

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_6500K

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)