

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: P521333

Luminaire Tested: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521333
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_5700K
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10445.6 lumens
Efficiency: N/A
Efficacy: 98.0 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

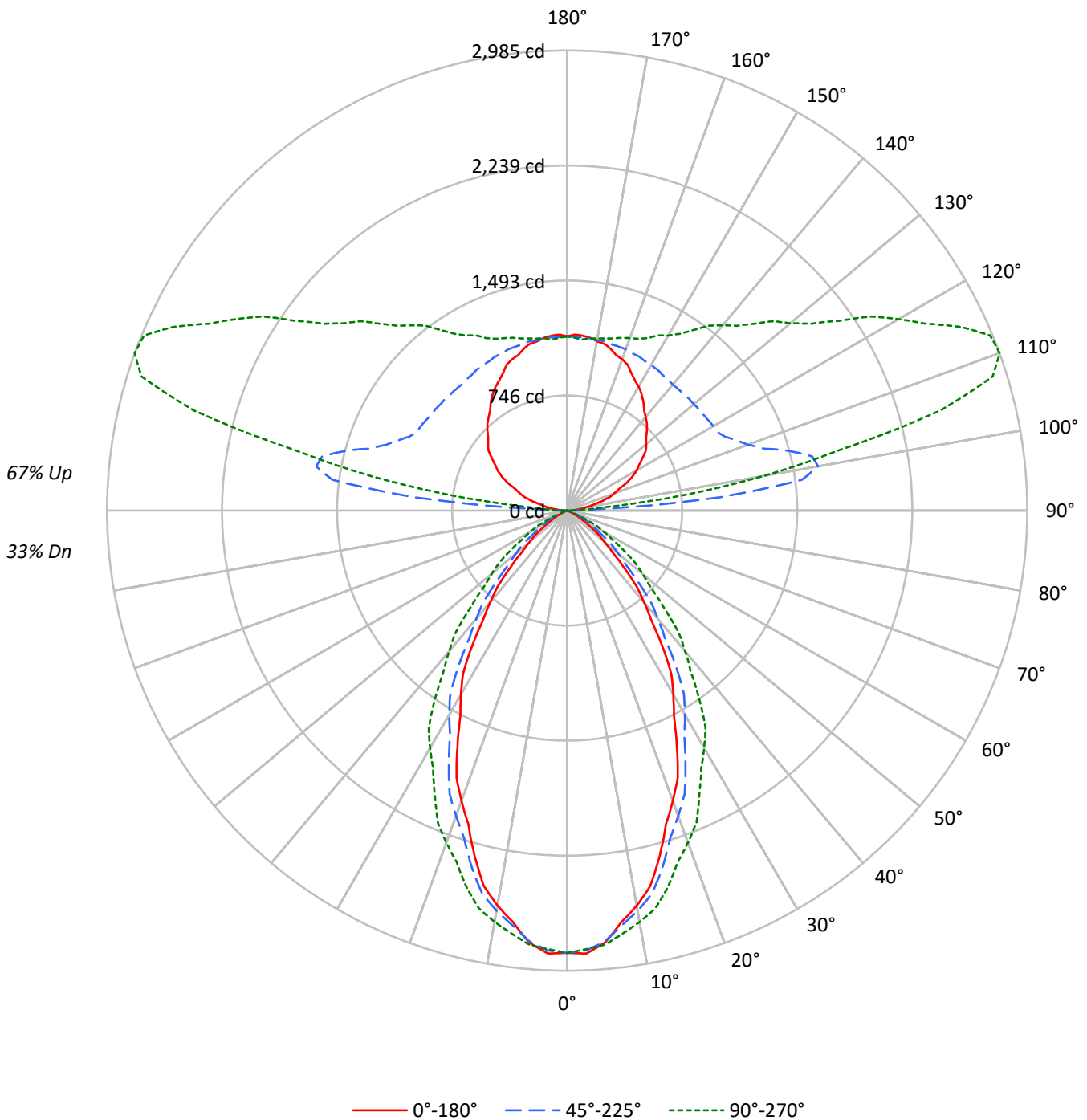
Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521333

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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	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°	26474	26474	26474
5°	26048	25983	26176
10°	24372	24697	25386
15°	22157	22859	24132
20°	19668	20690	22503
25°	17128	18484	20675
30°	14671	16283	18945
35°	12164	13822	16855
40°	9346	11052	14362
45°	6756	8368	11556
50°	4603	6237	9166
55°	2992	4510	7123
60°	1716	3176	5148
65°	454	1939	2607
70°	224	599	750
75°	100	50	0
80°	74	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11556 cd/sqm

TEST NUMBER: P521333

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	2.5
10°-20°	669.7	6.4
20°-30°	838.4	8.0
30°-40°	774.4	7.4
40°-50°	520.3	5.0
50°-60°	268.8	2.6
60°-70°	84.2	0.8
70°-80°	5.3	0.1
80°-90°	0.1	0.0
90°-100°	515.2	4.9
100°-110°	1465.8	14.0
110°-120°	1404.4	13.4
120°-130°	1111.5	10.6
130°-140°	892.2	8.5
140°-150°	698.5	6.7
150°-160°	511.1	4.9
160°-170°	316.6	3.0
170°-180°	107.4	1.0
0°-30°	1769.9	16.9
0°-40°	2544.3	24.4
0°-60°	3333.3	31.9
0°-90°	3422.9	32.8
90°-120°	3385.4	32.4
90°-150°	6087.6	58.3
90°-180°	7023.0	67.2
0°-180°	10445.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2869	2869	2869	2869	2869	
5°	2812	2784	2806	2816	2826	261
15°	2320	2312	2393	2474	2526	646
25°	1682	1696	1816	1940	2031	771
35°	1080	1107	1227	1372	1496	669
45°	518	549	641	766	886	407
55°	186	217	280	360	443	174
65°	21	40	89	107	119	35
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
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	

TEST NUMBER: P521333

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2869.4	2869.4	2869.4	2869.4	2869.4
2.5°	2876.0	2848.9	2856.1	2855.9	2848.3
5°	2812.5	2784.0	2805.5	2815.5	2826.3
7.5°	2693.6	2671.4	2712.8	2743.8	2766.4
10°	2601.5	2582.5	2636.2	2678.5	2709.7
12.5°	2494.8	2480.2	2545.1	2603.2	2643.1
15°	2319.7	2311.5	2393.2	2473.6	2526.5
17.5°	2132.0	2131.7	2225.0	2324.7	2388.5
20°	2003.2	2007.2	2107.3	2217.2	2291.9
22.5°	1874.3	1883.8	1990.7	2105.3	2190.8
25°	1682.5	1696.1	1815.7	1940.0	2030.9
27.5°	1498.1	1517.9	1643.9	1773.0	1883.8
30°	1377.1	1400.2	1528.4	1664.2	1778.3
32.5°	1258.3	1285.7	1410.7	1554.4	1670.5
35°	1080.0	1107.2	1227.2	1371.6	1496.5
37.5°	895.9	922.5	1039.8	1181.9	1316.8
40°	776.0	805.9	917.6	1055.4	1192.5
42.5°	667.2	697.0	802.1	937.5	1067.0
45°	517.8	549.0	641.3	766.2	885.7
47.5°	394.0	427.9	508.9	621.9	730.7
50°	320.7	354.6	434.5	534.0	638.6
52.5°	261.8	294.7	366.8	460.6	556.4
55°	186.0	217.2	280.4	360.0	442.8
57.5°	128.5	155.4	212.1	278.6	343.4
60°	93.0	118.8	172.1	226.1	279.0
62.5°	61.9	85.5	137.7	179.1	214.6
65°	20.8	39.8	88.8	107.2	119.4
67.5°	10.6	12.7	46.6	49.2	53.3
70°	8.3	8.3	22.2	23.7	27.8
72.5°	6.1	6.1	8.9	11.4	12.2
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°	17.2	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

TEST NUMBER: P521333

CATALOG NUMBER: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_5700K

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)