

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: P521992

Luminaire Tested: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4\_3500K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521992  
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-125U-100D-92765-1D-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8923.5 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

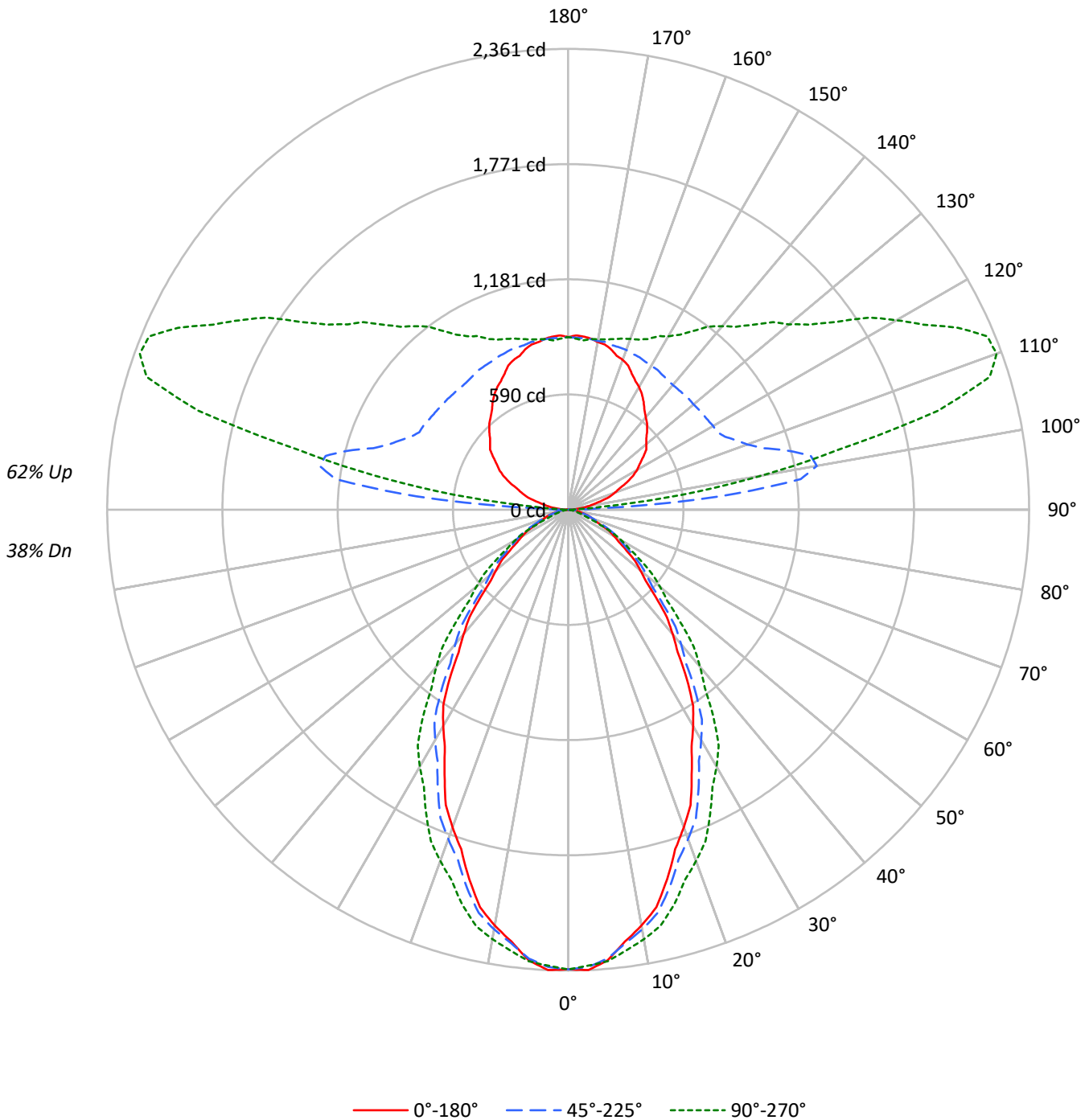
Input Watts (W): 83.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77		61	61	61		46	46	46	38
1	96	92	89	86	87	84	81	78	69	67	65		55	53	52		42	41	40	34
2	88	82	76	71	80	74	70	66	61	58	55		49	47	45		38	36	35	30
3	81	72	66	61	74	66	61	56	55	51	47		44	41	39		34	33	31	27
4	75	65	57	52	68	59	53	48	49	45	41		40	37	34		31	29	28	24
5	69	58	51	45	63	53	47	42	45	40	36		36	33	30		29	26	25	21
6	64	52	45	40	58	48	42	37	41	36	32		33	30	27		26	24	22	19
7	59	48	40	35	54	44	37	33	37	32	29		30	27	24		24	22	20	17
8	55	43	36	31	50	40	34	29	34	29	26		28	25	22		23	20	18	16
9	51	40	33	28	47	37	31	26	31	27	23		26	23	20		21	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21		24	21	18		20	17	15	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21728	21728	21728
5°	21457	21380	21504
10°	20272	20456	20930
15°	18714	19148	20007
20°	16994	17633	18800
25°	15242	16073	17515
30°	13629	14521	16183
35°	11918	12779	14606
40°	10031	10828	12645
45°	8279	8993	10557
50°	6911	7534	8796
55°	5868	6466	7264
60°	5015	5606	5796
65°	3993	4716	3744
70°	3539	3679	2285
75°	3280	2984	1401
80°	3018	2747	1206
85°	2731	2519	984

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10557 cd/sqm

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CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4\_3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.0	2.4
10°-20°	561.8	6.3
20°-30°	727.8	8.2
30°-40°	712.7	8.0
40°-50°	545.5	6.1
50°-60°	363.5	4.1
60°-70°	198.4	2.2
70°-80°	82.7	0.9
80°-90°	23.4	0.3
90°-100°	402.9	4.5
100°-110°	1146.3	12.8
110°-120°	1098.3	12.3
120°-130°	869.3	9.7
130°-140°	697.7	7.8
140°-150°	546.2	6.1
150°-160°	399.7	4.5
160°-170°	247.6	2.8
170°-180°	84.0	0.9
0°-30°	1505.6	16.9
0°-40°	2218.3	24.9
0°-60°	3127.2	35.0
0°-90°	3431.6	38.5
90°-120°	2647.5	29.7
90°-150°	4760.6	53.3
90°-180°	5492.0	61.5
0°-180°	8923.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2355	2355	2355	2355	2355	
5°	2317	2294	2308	2314	2322	216
15°	1959	1952	2005	2059	2095	547
25°	1497	1501	1579	1648	1720	689
35°	1058	1063	1135	1211	1297	658
45°	634	647	689	741	809	495
55°	365	380	402	417	452	331
65°	183	198	216	189	172	190
75°	92	92	84	58	39	98
85°	26	26	24	15	9	28
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2355.0	2355.0	2355.0	2355.0	2355.0
2.5°	2360.8	2339.8	2345.1	2344.9	2338.5
5°	2316.8	2293.5	2308.5	2313.8	2321.9
7.5°	2230.8	2213.2	2240.5	2260.7	2277.1
10°	2163.8	2148.7	2183.5	2212.9	2234.1
12.5°	2086.1	2073.4	2116.5	2156.0	2183.7
15°	1959.2	1952.1	2004.7	2059.2	2094.6
17.5°	1823.4	1820.0	1880.3	1943.9	1989.2
20°	1730.8	1729.8	1795.9	1862.2	1914.8
22.5°	1637.4	1639.7	1709.1	1778.1	1837.9
25°	1497.3	1501.4	1578.9	1647.8	1720.5
27.5°	1367.7	1369.6	1449.8	1522.4	1600.0
30°	1279.3	1284.3	1363.0	1438.2	1519.0
32.5°	1190.8	1196.7	1273.7	1351.4	1433.9
35°	1058.1	1063.2	1134.6	1211.0	1296.8
37.5°	921.3	928.2	991.6	1063.8	1148.3
40°	832.9	843.0	899.0	967.0	1049.9
42.5°	747.7	760.3	812.2	876.7	951.5
45°	634.5	646.6	689.2	741.4	809.1
47.5°	536.9	550.9	583.6	628.6	686.3
50°	481.5	494.7	524.9	558.2	612.8
52.5°	432.8	445.9	472.9	498.5	545.0
55°	364.8	379.9	402.0	417.2	451.6
57.5°	309.0	323.5	341.0	347.9	368.7
60°	271.8	287.9	303.8	303.0	314.1
62.5°	237.9	251.6	267.4	256.5	257.1
65°	182.9	198.1	216.0	188.7	171.5
67.5°	147.8	151.0	169.5	131.6	111.2
70°	131.2	131.2	136.4	101.9	84.7
72.5°	115.5	115.5	110.8	82.9	64.9
75°	92.0	92.0	83.7	57.5	39.3
77.5°	70.9	70.1	64.1	42.9	28.5
80°	56.8	56.8	51.7	33.8	22.7
82.5°	44.4	44.4	40.1	26.4	16.9
85°	25.8	25.8	23.8	15.4	9.3
87.5°	9.1	9.1	8.3	4.9	4.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7

TEST NUMBER: P521992

CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4\_3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)