

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: P521743

Luminaire Tested: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4\_2700K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521743  
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-025U-125D-92765-1D-UNV-STD-W-4\_2700K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6009.7 lumens  
Efficiency: N/A  
Efficacy: 86.3 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-Direct

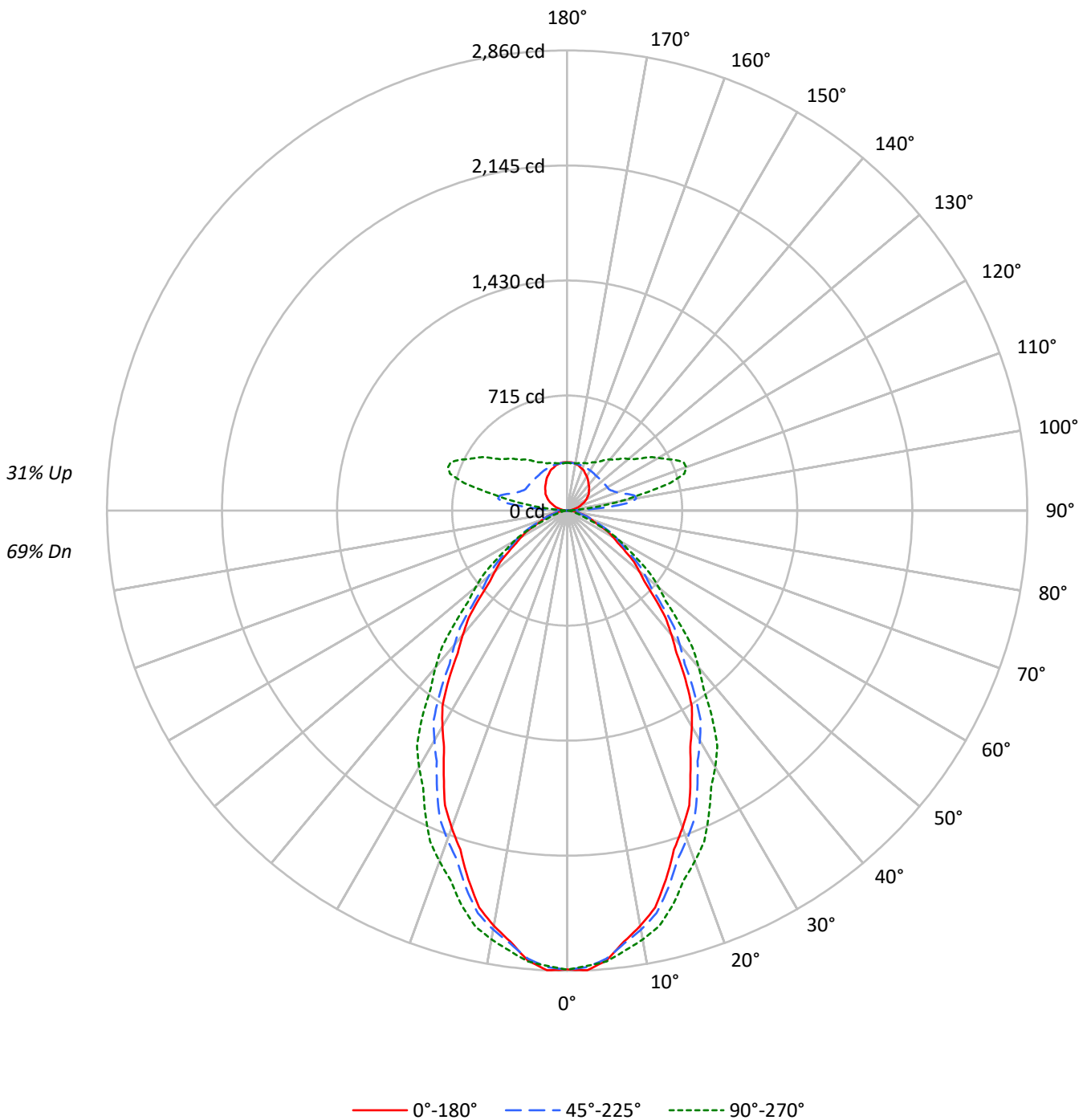
Input Watts (W): 69.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74	69				
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	66	65	61				
2	96	89	84	79	90	85	80	76	76	73	69	69	66	63	62	59	58	54				
3	88	80	73	68	84	76	70	65	69	64	60	62	59	56	56	53	51	48				
4	82	72	65	59	77	69	62	57	62	57	53	57	53	49	51	48	45	43				
5	76	65	58	52	72	62	56	50	57	51	47	52	47	44	47	44	41	38				
6	71	59	52	46	67	57	50	45	52	46	42	48	43	40	44	40	37	35				
7	66	54	47	42	63	52	45	40	48	42	38	44	39	36	40	36	34	31				
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	37	34	31	29				
9	58	46	39	34	55	44	38	33	41	36	32	38	33	30	35	31	28	26				
10	54	43	36	31	52	41	35	31	38	33	29	35	31	28	33	29	26	24				

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

	0°	45°	90°
0°	26319	26319	26319
5°	25990	25898	26048
10°	24555	24778	25352
15°	22668	23194	24234
20°	20585	21359	22773
25°	18463	19470	21216
30°	16509	17589	19602
35°	14436	15480	17693
40°	12151	13116	15316
45°	10027	10894	12788
50°	8372	9127	10653
55°	7107	7832	8799
60°	6075	6790	7021
65°	4836	5711	4536
70°	4289	4456	2768
75°	3971	3615	1697
80°	3655	3326	1461
85°	3313	3049	1196

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12788 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.7	4.4
10°-20°	680.6	11.3
20°-30°	881.5	14.7
30°-40°	863.2	14.4
40°-50°	660.8	11.0
50°-60°	440.3	7.3
60°-70°	240.3	4.0
70°-80°	100.1	1.7
80°-90°	28.3	0.5
90°-100°	135.9	2.3
100°-110°	386.8	6.4
110°-120°	370.6	6.2
120°-130°	293.3	4.9
130°-140°	235.4	3.9
140°-150°	184.3	3.1
150°-160°	134.8	2.2
160°-170°	83.5	1.4
170°-180°	28.3	0.5
0°-30°	1823.7	30.3
0°-40°	2687.0	44.7
0°-60°	3788.0	63.0
0°-90°	4156.8	69.2
90°-120°	893.2	14.9
90°-150°	1606.2	26.7
90°-180°	1853.0	30.8
0°-180°	6009.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2806	2778	2796	2803	2812	261
15°	2373	2365	2428	2494	2537	663
25°	1814	1819	1913	1996	2084	834
35°	1282	1288	1374	1467	1571	797
45°	768	783	835	898	980	599
55°	442	460	487	505	547	401
65°	222	240	262	229	208	230
75°	111	111	101	70	48	119
85°	31	31	29	19	11	34
90°	0	0	0	0	0	2
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2852.6	2852.6	2852.6	2852.6	2852.6
2.5°	2859.6	2834.1	2840.6	2840.4	2832.6
5°	2806.3	2778.1	2796.3	2802.7	2812.5
7.5°	2702.1	2680.8	2713.9	2738.4	2758.2
10°	2621.0	2602.7	2644.8	2680.4	2706.1
12.5°	2526.9	2511.5	2563.7	2611.5	2645.1
15°	2373.2	2364.6	2428.3	2494.3	2537.2
17.5°	2208.7	2204.6	2277.6	2354.7	2409.5
20°	2096.6	2095.4	2175.4	2255.7	2319.4
22.5°	1983.4	1986.1	2070.3	2153.8	2226.2
25°	1813.7	1818.6	1912.6	1995.9	2084.1
27.5°	1656.7	1658.9	1756.1	1844.1	1938.1
30°	1549.6	1555.7	1651.0	1742.1	1840.0
32.5°	1442.4	1449.5	1542.8	1637.0	1736.8
35°	1281.7	1287.8	1374.4	1466.8	1570.9
37.5°	1116.0	1124.3	1201.1	1288.6	1390.9
40°	1008.9	1021.1	1089.0	1171.4	1271.7
42.5°	905.7	920.9	983.8	1062.0	1152.6
45°	768.5	783.2	834.9	898.1	980.1
47.5°	650.4	667.3	707.0	761.4	831.4
50°	583.3	599.2	635.9	676.2	742.2
52.5°	524.2	540.1	572.8	603.8	660.1
55°	441.8	460.2	486.9	505.4	547.0
57.5°	374.3	391.9	413.1	421.4	446.6
60°	329.2	348.8	368.0	367.1	380.5
62.5°	288.1	304.8	323.9	310.7	311.4
65°	221.5	239.9	261.6	228.6	207.8
67.5°	179.0	182.9	205.3	159.4	134.7
70°	159.0	159.0	165.2	123.4	102.6
72.5°	139.9	139.9	134.2	100.4	78.6
75°	111.4	111.4	101.4	69.6	47.6
77.5°	85.9	84.9	77.6	51.9	34.5
80°	68.8	68.8	62.6	41.0	27.5
82.5°	53.8	53.8	48.6	32.0	20.5
85°	31.3	31.3	28.8	18.6	11.3
87.5°	11.0	11.0	10.0	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)