

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: P521620

Luminaire Tested: SQ4-F-125U-075D-92765-1D-UNV-STD-W-4\_6500K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521620  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2101-105-37)  
Test Lab: INNOVATION CENTER  
Issue Date: 5-5-2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-075D-92765-1D-UNV-STD-W-4\_6500K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 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: 9227.6 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

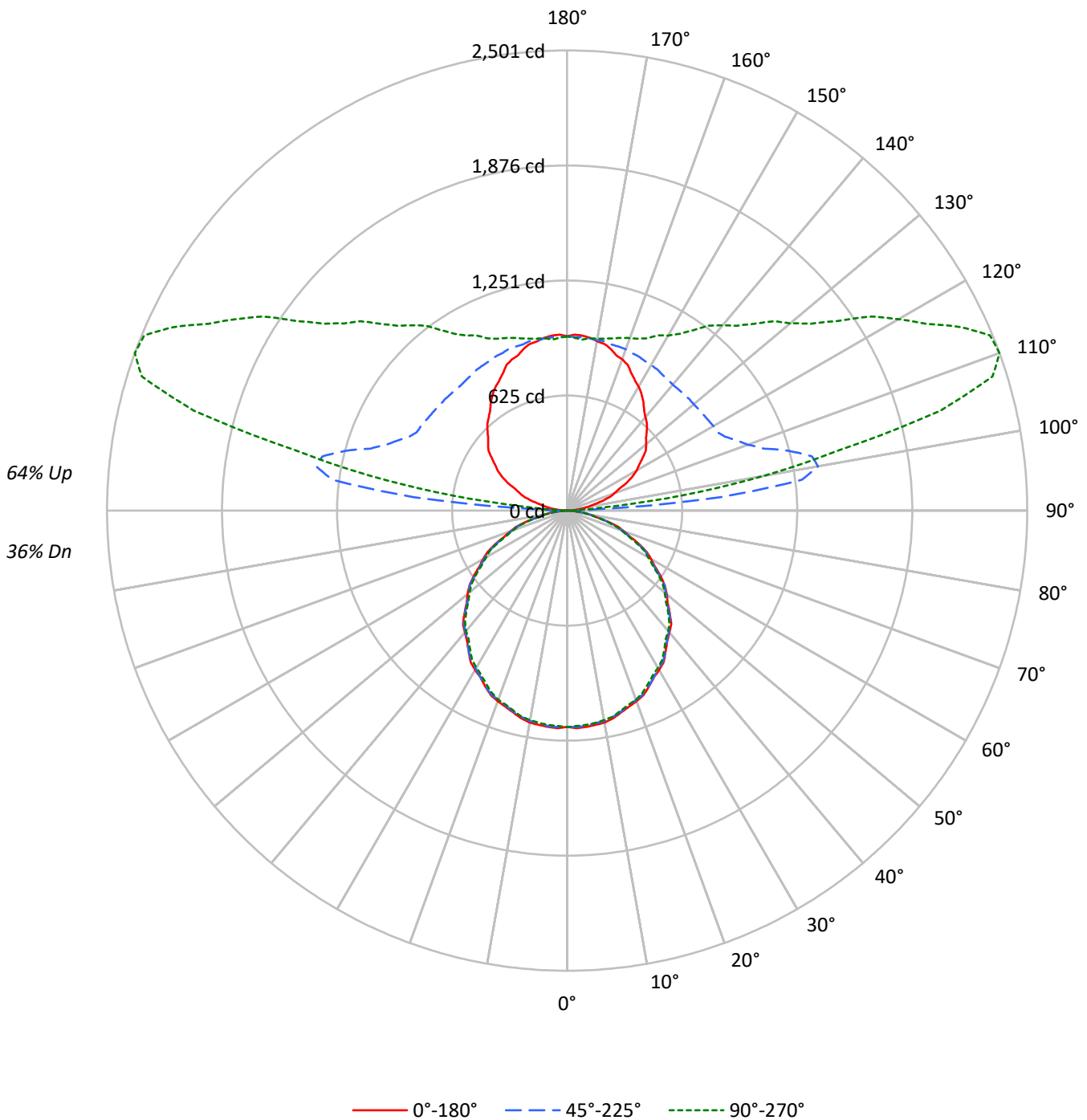
Input Watts (W): 72.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	94	94	94	94	76	76	76		59	59	59		43	43	43	36
1	95	90	86	83	86	82	79	76	66	64	62		52	50	49		38	37	37	30
2	86	79	73	68	78	71	66	62	58	54	51		45	43	41		34	32	31	25
3	78	69	62	56	71	63	57	52	51	46	43		40	37	34		30	28	26	21
4	72	61	53	47	64	55	49	43	45	40	36		35	32	29		26	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31		32	28	25		24	21	19	16
6	60	48	40	35	54	44	37	32	36	31	27		28	25	22		21	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24		26	22	19		19	17	15	12
8	52	39	32	27	47	36	29	25	30	24	21		24	20	17		18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	18		22	18	15		16	14	12	10
10	45	33	26	21	40	30	24	19	25	20	17		20	16	14		15	13	11	9

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

	0°	45°	90°
0°	10851	10851	10851
5°	10932	10892	10833
10°	10958	10878	10828
15°	10845	10804	10753
20°	10822	10748	10737
25°	10730	10708	10588
30°	10658	10590	10510
35°	10508	10496	10363
40°	10411	10359	10295
45°	10287	10231	10119
50°	10146	10070	9933
55°	9958	9838	9699
60°	9724	9566	9389
65°	9400	9191	9027
70°	8813	8611	8408
75°	7942	7714	7600
80°	6487	6546	6429
85°	4647	5325	5325

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10287 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	1.2
10°-20°	318.7	3.5
20°-30°	482.2	5.2
30°-40°	580.0	6.3
40°-50°	602.2	6.5
50°-60°	545.5	5.9
60°-70°	415.0	4.5
70°-80°	230.6	2.5
80°-90°	59.4	0.6
90°-100°	431.5	4.7
100°-110°	1227.8	13.3
110°-120°	1176.4	12.7
120°-130°	931.1	10.1
130°-140°	747.3	8.1
140°-150°	585.1	6.3
150°-160°	428.1	4.6
160°-170°	265.2	2.9
170°-180°	90.0	1.0
0°-30°	912.4	9.9
0°-40°	1492.4	16.2
0°-60°	2640.1	28.6
0°-90°	3345.1	36.3
90°-120°	2835.8	30.7
90°-150°	5099.2	55.3
90°-180°	5882.0	63.7
0°-180°	9227.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1180	1170	1176	1171	1170	112
15°	1135	1126	1131	1130	1126	321
25°	1054	1045	1052	1041	1040	486
35°	933	929	932	921	920	585
45°	788	783	784	776	776	608
55°	619	618	612	606	603	553
65°	431	424	421	414	414	424
75°	223	220	216	214	213	236
85°	44	47	50	50	50	54
90°	0	0	0	0	0	4
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1176.1	1176.1	1176.1	1176.1	1176.1
2.5°	1183.8	1173.8	1177.0	1174.3	1171.8
5°	1180.4	1169.9	1176.1	1170.7	1169.7
7.5°	1174.8	1162.5	1165.4	1164.3	1164.3
10°	1169.7	1154.0	1161.1	1155.8	1155.8
12.5°	1156.0	1142.8	1148.3	1145.5	1147.2
15°	1135.4	1126.0	1131.1	1130.0	1125.8
17.5°	1117.6	1106.3	1110.1	1108.2	1106.5
20°	1102.2	1091.7	1094.7	1089.4	1093.6
22.5°	1085.1	1074.6	1080.1	1071.3	1071.3
25°	1054.0	1044.6	1051.9	1041.1	1040.1
27.5°	1021.0	1014.9	1019.7	1011.7	1008.8
30°	1000.4	991.0	994.0	988.6	986.5
32.5°	976.4	967.0	970.0	960.4	961.7
35°	933.0	928.8	931.9	921.2	920.1
37.5°	893.5	885.2	890.1	881.3	880.5
40°	864.4	856.0	860.1	854.8	854.8
42.5°	837.8	828.6	831.0	823.9	821.3
45°	788.4	783.1	784.1	775.5	775.5
47.5°	739.5	735.7	734.2	725.4	727.1
50°	706.9	700.7	701.6	692.0	692.0
52.5°	669.2	669.7	665.6	659.3	654.2
55°	619.1	618.1	611.6	606.2	603.0
57.5°	565.6	560.7	556.1	548.8	548.2
60°	527.0	523.9	518.4	511.9	508.8
62.5°	487.6	484.4	479.0	473.4	472.8
65°	430.6	424.3	421.0	414.5	413.5
67.5°	368.7	363.7	359.5	354.3	353.7
70°	326.7	322.5	319.2	314.8	311.7
72.5°	288.1	281.4	278.1	274.6	272.3
75°	222.8	219.7	216.4	214.2	213.2
77.5°	159.8	160.0	160.0	157.2	156.2
80°	122.1	123.2	123.2	122.1	121.0
82.5°	88.7	90.6	91.5	90.4	90.2
85°	43.9	47.1	50.3	50.3	50.3
87.5°	12.0	16.2	19.7	20.5	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)