

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

(formerly Eaton)

Brand: CORELITE

Report Number: P523925

Luminaire Tested: **SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523925  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

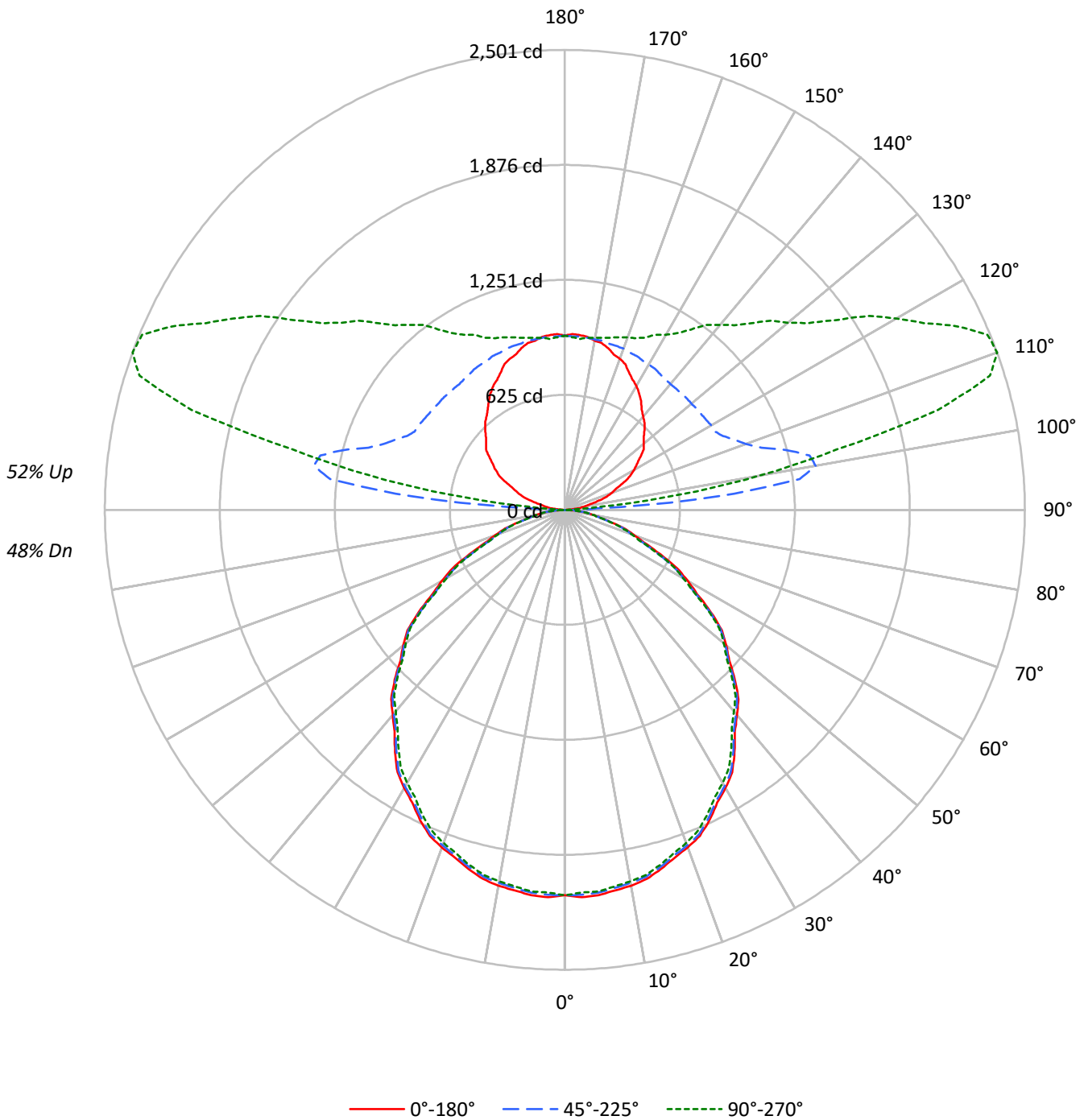
Lumens per Lamp: N/A  
Luminaire Lumens: 11244.9 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 96.6  
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	63	60	56	53	50	47	42	41	39				34	
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	35	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	30	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20				17	
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14				12	

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

	0°	45°	90°
0°	19331	19331	19331
5°	19472	19353	19285
10°	19440	19302	19216
15°	19311	19206	19100
20°	19183	19074	18931
25°	18955	18824	18637
30°	18604	18506	18272
35°	18117	17993	17765
40°	17537	17428	17228
45°	17059	16939	16772
50°	16446	16341	16183
55°	15595	15389	15270
60°	14197	13791	13723
65°	12507	11985	11946
70°	10798	10353	10353
75°	9293	9165	9033
80°	8193	8294	8097
85°	6415	6997	6997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.1	1.8
10°-20°	565.7	5.0
20°-30°	847.3	7.5
30°-40°	993.9	8.8
40°-50°	997.0	8.9
50°-60°	850.5	7.6
60°-70°	554.7	4.9
70°-80°	278.3	2.5
80°-90°	77.0	0.7
90°-100°	431.5	3.8
100°-110°	1227.8	10.9
110°-120°	1176.4	10.5
120°-130°	931.1	8.3
130°-140°	747.3	6.6
140°-150°	585.1	5.2
150°-160°	428.1	3.8
160°-170°	265.2	2.4
170°-180°	90.0	0.8
0°-30°	1611.1	14.3
0°-40°	2605.0	23.2
0°-60°	4452.5	39.6
0°-90°	5362.4	47.7
90°-120°	2835.8	25.2
90°-150°	5099.2	45.3
90°-180°	5882.0	52.3
0°-180°	11244.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2102	2083	2090	2082	2082	200
15°	2022	2002	2011	2003	2000	570
25°	1862	1840	1849	1832	1831	856
35°	1608	1592	1598	1579	1577	1005
45°	1307	1298	1298	1285	1285	1007
55°	970	966	957	951	949	862
65°	573	562	549	545	547	572
75°	261	261	257	255	253	283
85°	61	66	66	66	66	71
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°	2095.2	2095.2	2095.2	2095.2	2095.2
2.5°	2108.4	2091.1	2095.2	2092.0	2083.4
5°	2102.5	2082.7	2089.6	2082.3	2082.3
7.5°	2088.2	2066.6	2073.5	2066.1	2065.8
10°	2075.0	2053.4	2060.3	2052.9	2051.1
12.5°	2055.9	2034.3	2042.6	2033.8	2033.5
15°	2021.7	2002.0	2010.7	2003.3	1999.7
17.5°	1983.1	1961.6	1972.1	1961.8	1960.4
20°	1953.8	1932.2	1942.7	1928.1	1928.1
22.5°	1918.5	1897.0	1909.0	1889.9	1889.9
25°	1862.0	1840.4	1849.1	1832.5	1830.7
27.5°	1794.7	1773.6	1782.6	1763.9	1763.5
30°	1746.3	1726.5	1737.1	1716.8	1715.1
32.5°	1693.4	1675.1	1682.7	1662.5	1660.7
35°	1608.5	1592.4	1597.5	1579.1	1577.3
37.5°	1519.3	1502.8	1508.7	1492.9	1492.1
40°	1456.1	1445.4	1447.0	1434.0	1430.4
42.5°	1397.4	1385.2	1386.7	1373.9	1373.1
45°	1307.4	1298.4	1298.2	1285.4	1285.4
47.5°	1211.9	1205.1	1203.1	1192.4	1192.1
50°	1145.8	1140.4	1138.5	1129.2	1127.5
52.5°	1076.8	1074.3	1068.0	1060.2	1059.9
55°	969.5	965.9	956.7	951.1	949.3
57.5°	853.1	845.9	835.5	827.4	828.9
60°	769.4	762.2	747.4	743.7	743.7
62.5°	688.6	680.0	665.1	660.0	662.9
65°	572.9	562.1	549.0	545.4	547.2
67.5°	467.9	458.2	444.0	444.0	442.5
70°	400.3	394.9	383.8	383.8	383.8
72.5°	340.1	337.6	329.4	329.4	328.0
75°	260.7	260.7	257.1	255.2	253.4
77.5°	195.4	196.1	194.3	192.4	189.1
80°	154.2	157.8	156.1	154.2	152.4
82.5°	116.1	119.6	119.4	116.0	115.7
85°	60.6	66.0	66.1	66.1	66.1
87.5°	16.2	21.9	23.5	23.5	25.0
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)