

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: P523922

Luminaire Tested: **SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523922  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10862.7 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

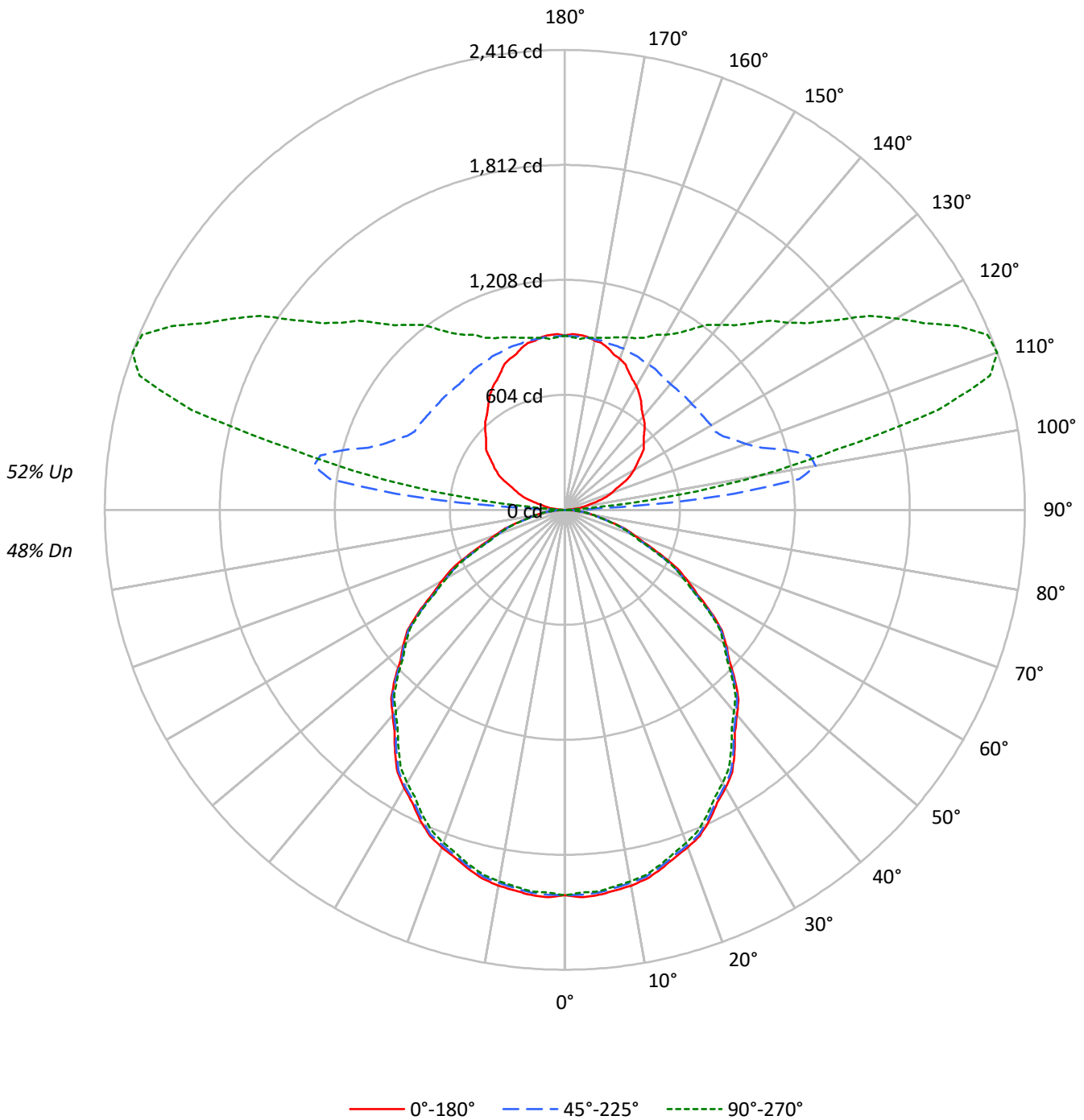
Input Watts (W): 97.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	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°	18673	18673	18673
5°	18810	18695	18629
10°	18778	18645	18563
15°	18654	18552	18451
20°	18530	18426	18287
25°	18311	18183	18003
30°	17971	17877	17651
35°	17502	17381	17162
40°	16941	16835	16642
45°	16479	16363	16201
50°	15888	15786	15632
55°	15066	14866	14752
60°	13714	13321	13256
65°	12081	11579	11540
70°	10431	10000	10000
75°	8980	8851	8726
80°	7917	8012	7821
85°	6193	6764	6764



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	1.8
10°-20°	546.5	5.0
20°-30°	818.5	7.5
30°-40°	960.1	8.8
40°-50°	963.1	8.9
50°-60°	821.6	7.6
60°-70°	535.8	4.9
70°-80°	268.8	2.5
80°-90°	74.4	0.7
90°-100°	416.8	3.8
100°-110°	1186.1	10.9
110°-120°	1136.4	10.5
120°-130°	899.4	8.3
130°-140°	721.9	6.6
140°-150°	565.2	5.2
150°-160°	413.5	3.8
160°-170°	256.2	2.4
170°-180°	86.9	0.8
0°-30°	1556.4	14.3
0°-40°	2516.4	23.2
0°-60°	4301.1	39.6
0°-90°	5180.2	47.7
90°-120°	2739.4	25.2
90°-150°	4925.9	45.3
90°-180°	5682.0	52.3
0°-180°	10862.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2031	2012	2019	2012	2012	193
15°	1953	1934	1942	1935	1932	551
25°	1799	1778	1786	1770	1768	827
35°	1554	1538	1543	1525	1524	971
45°	1263	1254	1254	1242	1242	972
55°	937	933	924	919	917	832
65°	553	543	530	527	529	552
75°	252	252	248	246	245	273
85°	58	64	64	64	64	69
90°	0	0	0	0	0	4
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2023.9	2023.9	2023.9	2023.9	2023.9
2.5°	2036.7	2020.1	2023.9	2020.9	2012.6
5°	2031.0	2011.9	2018.6	2011.5	2011.5
7.5°	2017.2	1996.4	2003.0	1995.9	1995.6
10°	2004.4	1983.6	1990.2	1983.1	1981.4
12.5°	1986.0	1965.2	1973.2	1964.7	1964.3
15°	1953.0	1933.9	1942.3	1935.2	1931.7
17.5°	1915.7	1894.9	1905.1	1895.1	1893.7
20°	1887.3	1866.5	1876.7	1862.5	1862.5
22.5°	1853.3	1832.5	1844.1	1825.6	1825.6
25°	1798.7	1777.8	1786.2	1770.2	1768.5
27.5°	1733.7	1713.3	1722.0	1703.9	1703.6
30°	1686.9	1667.8	1678.0	1658.5	1656.8
32.5°	1635.8	1618.1	1625.5	1606.0	1604.2
35°	1553.9	1538.3	1543.2	1525.4	1523.7
37.5°	1467.7	1451.7	1457.4	1442.1	1441.4
40°	1406.6	1396.2	1397.8	1385.3	1381.8
42.5°	1349.9	1338.1	1339.6	1327.2	1326.5
45°	1263.0	1254.3	1254.1	1241.7	1241.7
47.5°	1170.7	1164.1	1162.2	1151.9	1151.6
50°	1106.9	1101.7	1099.8	1090.9	1089.1
52.5°	1040.2	1037.7	1031.7	1024.2	1023.9
55°	936.6	933.1	924.2	918.8	917.1
57.5°	824.1	817.2	807.1	799.3	800.7
60°	743.2	736.3	721.9	718.4	718.4
62.5°	665.2	656.9	642.5	637.6	640.4
65°	553.4	543.0	530.4	526.9	528.6
67.5°	452.0	442.6	428.9	428.9	427.5
70°	386.7	381.5	370.7	370.7	370.7
72.5°	328.5	326.1	318.2	318.2	316.8
75°	251.9	251.9	248.3	246.5	244.8
77.5°	188.7	189.4	187.7	185.8	182.7
80°	149.0	152.5	150.8	149.0	147.2
82.5°	112.1	115.6	115.3	112.1	111.8
85°	58.5	63.7	63.9	63.9	63.9
87.5°	15.6	21.2	22.7	22.7	24.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)