

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: P562446

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562446  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11081.3 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

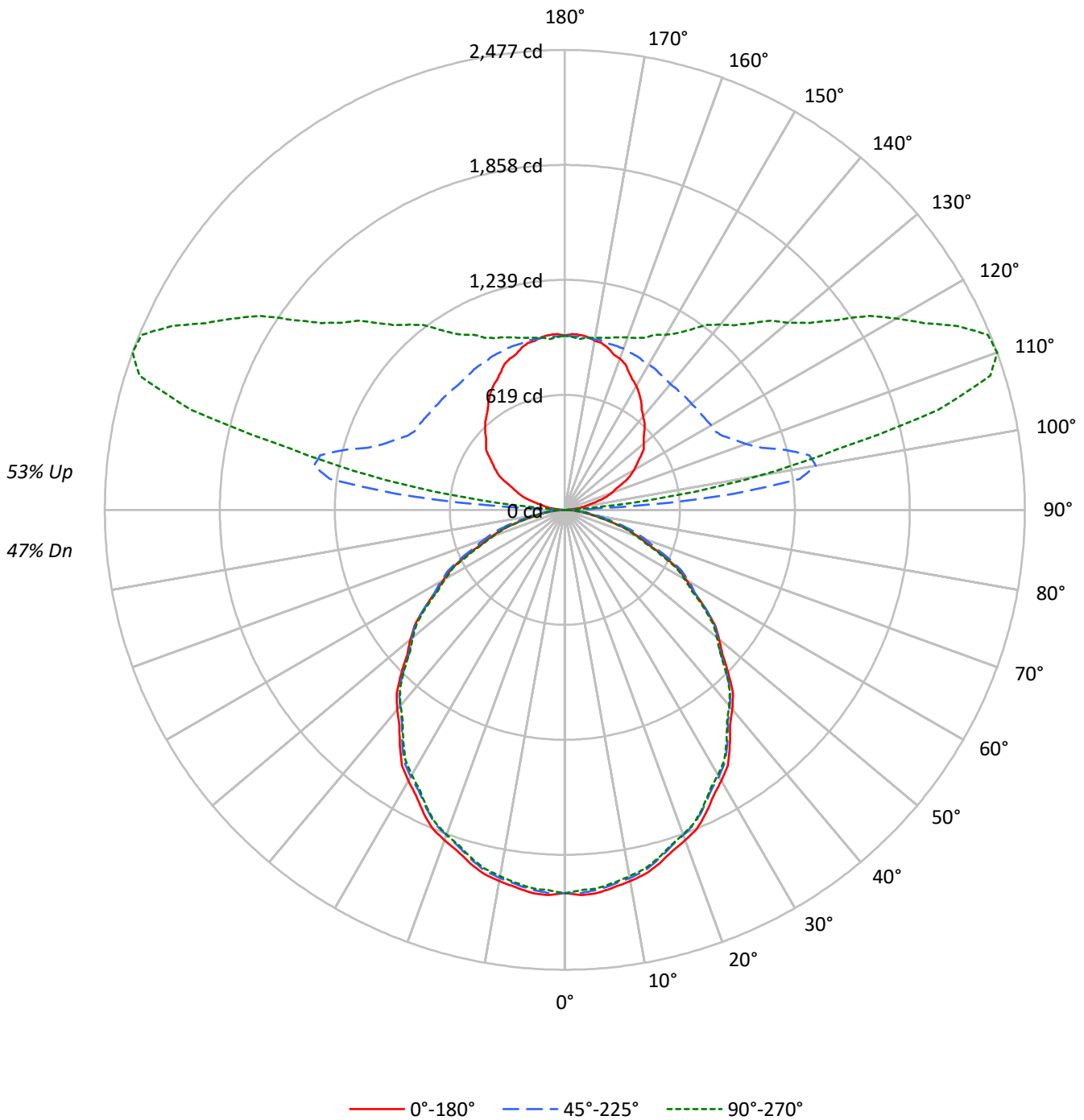
Input Watts (W): 97  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	72	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	13
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14	12

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

	0°	45°	90°
0°	19053	19053	19053
5°	19176	19024	18940
10°	19023	18869	18767
15°	18821	18612	18543
20°	18596	18310	18275
25°	18336	18003	17947
30°	17949	17677	17561
35°	17439	17193	17091
40°	16895	16631	16566
45°	16238	16024	15954
50°	15565	15434	15329
55°	14839	14839	14604
60°	13933	14201	13697
65°	12749	13385	12433
70°	11238	12320	10944
75°	9600	11026	9340
80°	7444	9282	7539
85°	4817	7124	6352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.5	1.8
10°-20°	549.0	5.0
20°-30°	814.4	7.3
30°-40°	952.9	8.6
40°-50°	948.6	8.6
50°-60°	819.2	7.4
60°-70°	589.6	5.3
70°-80°	309.2	2.8
80°-90°	76.7	0.7
90°-100°	427.5	3.9
100°-110°	1216.3	11.0
110°-120°	1165.4	10.5
120°-130°	922.3	8.3
130°-140°	740.3	6.7
140°-150°	579.6	5.2
150°-160°	424.1	3.8
160°-170°	262.7	2.4
170°-180°	89.1	0.8
0°-30°	1557.8	14.1
0°-40°	2510.7	22.7
0°-60°	4278.5	38.6
0°-90°	5254.0	47.4
90°-120°	2809.1	25.4
90°-150°	5051.4	45.6
90°-180°	5827.0	52.6
0°-180°	11081.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2070	2047	2054	2049	2045	196
15°	1970	1946	1949	1945	1941	555
25°	1801	1771	1768	1758	1763	828
35°	1548	1527	1526	1512	1517	968
45°	1244	1234	1228	1224	1223	960
55°	922	921	922	910	908	823
65°	584	602	613	589	570	579
75°	269	294	309	289	262	289
85°	46	60	67	64	60	60
90°	0	0	0	0	0	4
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	

TEST NUMBER: P562446

CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2065.1	2065.1	2065.1	2065.1	2065.1
2.5°	2076.7	2059.6	2065.1	2060.5	2050.5
5°	2070.5	2047.4	2054.1	2048.6	2045.0
7.5°	2049.4	2028.1	2033.0	2027.2	2025.0
10°	2030.5	2009.1	2014.1	2006.7	2003.2
12.5°	2008.6	1985.9	1990.8	1983.5	1981.4
15°	1970.4	1945.5	1948.6	1944.9	1941.3
17.5°	1926.0	1900.8	1901.3	1895.5	1894.8
20°	1894.0	1867.3	1864.9	1857.7	1861.3
22.5°	1859.1	1831.0	1828.5	1818.4	1823.4
25°	1801.2	1771.0	1768.5	1757.7	1763.0
27.5°	1734.3	1704.4	1704.4	1689.3	1695.0
30°	1684.8	1656.3	1659.3	1641.3	1648.4
32.5°	1632.4	1606.8	1608.4	1590.3	1597.5
35°	1548.3	1527.0	1526.5	1512.1	1517.4
37.5°	1462.5	1443.6	1440.6	1432.3	1433.7
40°	1402.8	1386.8	1380.9	1375.5	1375.5
42.5°	1340.2	1325.6	1319.8	1315.8	1314.4
45°	1244.5	1233.8	1228.1	1224.4	1222.7
47.5°	1149.9	1139.9	1135.0	1132.4	1130.6
50°	1084.4	1077.3	1075.3	1069.8	1068.0
52.5°	1018.9	1014.6	1012.7	1005.7	1004.0
55°	922.5	920.7	922.5	909.7	907.9
57.5°	822.0	824.9	830.8	813.6	809.3
60°	755.1	762.2	769.6	749.4	742.3
62.5°	686.7	698.0	708.5	685.3	675.4
65°	584.0	601.8	613.1	589.1	569.5
67.5°	485.1	507.1	520.7	494.7	472.7
70°	416.6	441.6	456.7	430.6	405.7
72.5°	357.0	384.7	397.0	372.4	347.5
75°	269.3	294.2	309.3	288.7	262.0
77.5°	191.0	214.5	227.1	209.1	187.0
80°	140.1	165.0	174.7	159.7	141.9
82.5°	99.3	120.0	126.6	117.6	105.5
85°	45.5	59.7	67.3	63.6	60.0
87.5°	11.6	21.6	27.7	27.7	29.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2



TEST NUMBER: P562446

CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)