

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: P563016

Luminaire Tested: **SQ4-PC3-125U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563016  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

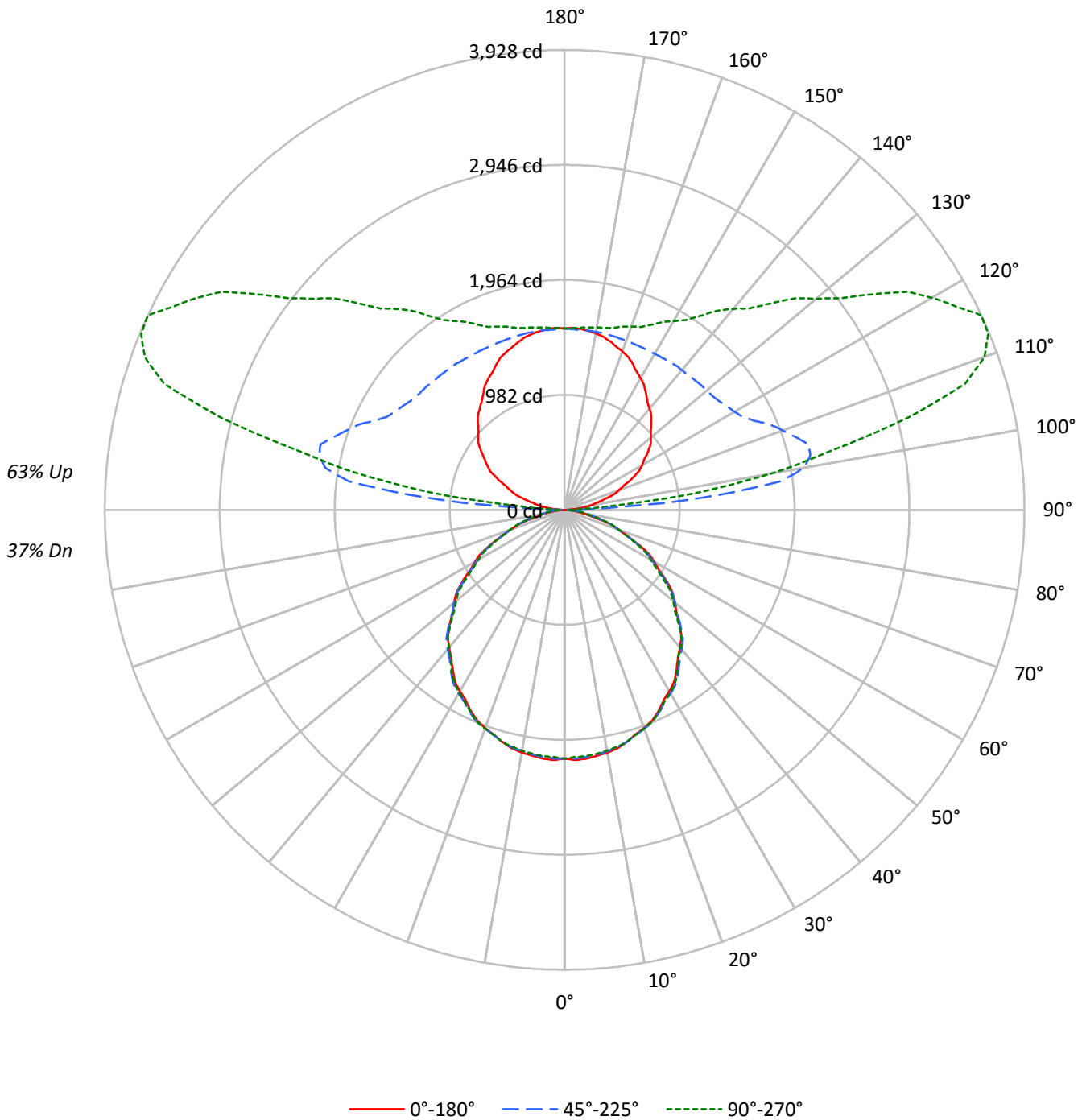
Lumens per Lamp: N/A  
Luminaire Lumens: 15803.4 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8311
60°	8135	7971	7844
65°	7519	7369	7305
70°	6583	6636	6610
75°	5297	5859	5893
80°	3764	4968	5018
85°	2292	4166	4166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	1.3
10°-20°	577.3	3.7
20°-30°	874.2	5.5
30°-40°	1048.1	6.6
40°-50°	1068.7	6.8
50°-60°	932.9	5.9
60°-70°	667.9	4.2
70°-80°	344.0	2.2
80°-90°	90.6	0.6
90°-100°	724.6	4.6
100°-110°	1951.8	12.4
110°-120°	2048.3	13.0
120°-130°	1662.1	10.5
130°-140°	1303.6	8.2
140°-150°	1000.8	6.3
150°-160°	719.6	4.6
160°-170°	439.6	2.8
170°-180°	148.3	0.9
0°-30°	1652.7	10.5
0°-40°	2700.7	17.1
0°-60°	4702.3	29.8
0°-90°	5804.7	36.7
90°-120°	4724.6	29.9
90°-150°	8691.2	55.0
90°-180°	9999.0	63.3
0°-180°	15803.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2133	2112	2120	2114	2112	203
15°	2053	2035	2053	2053	2051	579
25°	1895	1882	1909	1903	1903	872
35°	1667	1663	1693	1681	1681	1043
45°	1390	1386	1399	1382	1378	1070
55°	1063	1049	1049	1033	1033	947
65°	689	673	675	669	669	681
75°	297	311	329	331	331	321
85°	43	66	79	81	79	59
90°	4	12	24	26	26	9
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2125.6	2125.6	2125.6	2125.6	2125.6
2.5°	2138.2	2119.7	2125.6	2120.7	2113.0
5°	2133.4	2112.3	2119.7	2113.7	2111.8
7.5°	2118.1	2096.9	2106.7	2102.7	2100.8
10°	2103.9	2082.8	2094.1	2090.1	2088.2
12.5°	2085.0	2065.4	2078.3	2074.4	2074.0
15°	2052.8	2035.4	2052.8	2052.7	2050.8
17.5°	2012.2	1996.4	2015.0	2016.1	2015.0
20°	1983.9	1966.5	1989.8	1987.8	1989.8
22.5°	1949.2	1935.0	1959.9	1954.8	1956.7
25°	1895.3	1881.8	1909.1	1903.2	1903.2
27.5°	1831.5	1821.9	1851.6	1845.3	1845.3
30°	1789.0	1779.4	1810.7	1802.8	1802.8
32.5°	1741.8	1735.2	1765.0	1755.6	1755.6
35°	1667.0	1663.2	1692.6	1680.8	1680.8
37.5°	1589.9	1586.4	1613.1	1598.8	1594.2
40°	1533.2	1531.2	1554.8	1539.1	1539.1
42.5°	1476.5	1474.6	1495.0	1476.1	1476.1
45°	1389.5	1385.6	1399.3	1381.5	1377.7
47.5°	1294.6	1290.8	1299.4	1280.0	1278.1
50°	1230.1	1226.2	1230.1	1212.3	1210.4
52.5°	1163.9	1157.0	1157.7	1139.9	1139.5
55°	1062.8	1049.3	1049.0	1033.3	1033.3
57.5°	955.7	938.0	939.6	926.2	924.2
60°	881.7	862.5	864.0	852.2	850.2
62.5°	809.3	787.0	791.6	778.2	777.8
65°	688.8	673.4	675.1	669.2	669.2
67.5°	573.1	558.9	569.2	564.4	564.1
70°	488.1	478.5	492.0	492.0	490.1
72.5°	409.4	409.0	425.9	425.9	427.1
75°	297.2	310.7	328.7	330.6	330.6
77.5°	198.4	222.2	242.1	242.9	242.5
80°	141.7	168.6	187.0	190.9	188.9
82.5°	96.0	124.5	139.7	143.6	141.7
85°	43.3	66.4	78.7	80.6	78.7
87.5°	13.4	28.8	36.2	36.5	33.5
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)