

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: P562905

Luminaire Tested: **SQ4-PC3-100U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562905  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-050D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

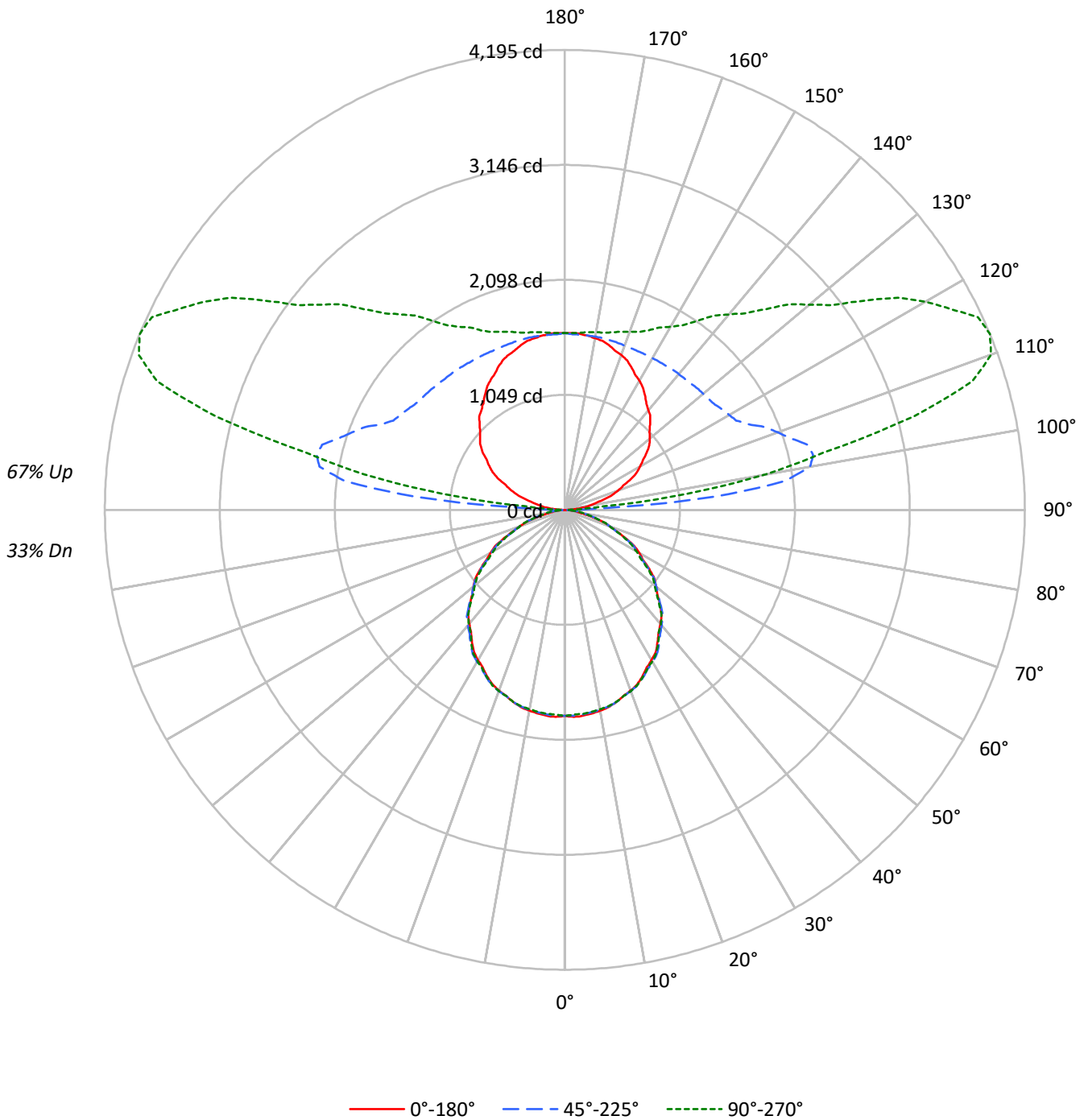
Lumens per Lamp: N/A  
Luminaire Lumens: 15602.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 127.4  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5204	5204	5121
55°	5039	4974	4899
60°	4796	4699	4624
65°	4432	4344	4306
70°	3881	3912	3897
75°	3123	3453	3474
80°	2219	2928	2959
85°	1351	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	1.1
10°-20°	510.5	3.3
20°-30°	773.1	5.0
30°-40°	926.8	5.9
40°-50°	945.0	6.1
50°-60°	824.9	5.3
60°-70°	590.6	3.8
70°-80°	304.2	1.9
80°-90°	80.2	0.5
90°-100°	754.6	4.8
100°-110°	2083.1	13.4
110°-120°	2148.4	13.8
120°-130°	1726.4	11.1
130°-140°	1356.8	8.7
140°-150°	1040.6	6.7
150°-160°	747.9	4.8
160°-170°	457.3	2.9
170°-180°	154.2	1.0
0°-30°	1461.4	9.4
0°-40°	2388.2	15.3
0°-60°	4158.2	26.7
0°-90°	5133.2	32.9
90°-120°	4986.1	32.0
90°-150°	9109.9	58.4
90°-180°	10469.0	67.1
0°-180°	15602.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1887	1868	1874	1869	1867	179
15°	1815	1800	1815	1815	1814	512
25°	1676	1664	1688	1683	1683	771
35°	1474	1471	1497	1486	1486	922
45°	1229	1225	1237	1222	1218	946
55°	940	928	928	914	914	838
65°	609	596	597	592	592	602
75°	263	275	291	292	292	284
85°	38	59	70	71	70	52
90°	5	10	21	23	26	9
95°	111	408	1369	563	366	119
105°	371	573	2292	3499	3295	395
115°	665	804	1846	3654	4156	654
125°	913	1039	1673	2832	3323	812
135°	1098	1217	1627	2293	2586	850
145°	1274	1362	1606	1952	2101	797
155°	1436	1484	1593	1752	1807	662
165°	1555	1575	1601	1663	1676	438
175°	1611	1614	1604	1627	1622	153
180°	1611	1611	1611	1611	1611	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1879.6	1879.6	1879.6	1879.6	1879.6
2.5°	1890.8	1874.4	1879.6	1875.3	1868.5
5°	1886.6	1867.9	1874.4	1869.1	1867.4
7.5°	1873.0	1854.3	1862.9	1859.4	1857.7
10°	1860.5	1841.8	1851.8	1848.3	1846.6
12.5°	1843.8	1826.4	1837.9	1834.4	1834.0
15°	1815.2	1799.9	1815.2	1815.2	1813.5
17.5°	1779.4	1765.4	1781.8	1782.8	1781.8
20°	1754.3	1739.0	1759.5	1757.8	1759.5
22.5°	1723.7	1711.1	1733.1	1728.6	1730.3
25°	1676.0	1664.1	1688.2	1683.0	1683.0
27.5°	1619.6	1611.1	1637.4	1631.8	1631.8
30°	1582.0	1573.5	1601.2	1594.2	1594.2
32.5°	1540.2	1534.5	1560.8	1552.4	1552.4
35°	1474.1	1470.7	1496.7	1486.3	1486.3
37.5°	1405.9	1402.8	1426.4	1413.8	1409.7
40°	1355.8	1354.1	1374.9	1361.0	1361.0
42.5°	1305.6	1303.9	1322.0	1305.3	1305.3
45°	1228.7	1225.3	1237.4	1221.7	1218.3
47.5°	1144.8	1141.4	1149.0	1131.9	1130.2
50°	1087.7	1084.3	1087.7	1072.0	1070.3
52.5°	1029.3	1023.1	1023.7	1008.0	1007.7
55°	939.8	927.9	927.6	913.7	913.7
57.5°	845.1	829.5	830.9	819.0	817.3
60°	779.7	762.7	764.0	753.6	751.8
62.5°	715.6	695.9	700.0	688.1	687.8
65°	609.1	595.5	597.0	591.7	591.7
67.5°	506.8	494.2	503.3	499.1	498.8
70°	431.6	423.1	435.1	435.1	433.4
72.5°	362.0	361.7	376.6	376.6	377.7
75°	262.8	274.7	290.6	292.4	292.4
77.5°	175.4	196.5	214.1	214.8	214.4
80°	125.3	149.1	165.3	168.8	167.1
82.5°	84.9	110.1	123.6	127.0	125.3
85°	38.3	58.7	69.6	71.3	69.6
87.5°	12.2	25.4	32.0	32.4	30.2
90°	5.2	10.2	20.6	23.3	25.8
92.5°	46.4	192.6	344.4	125.7	98.0
95°	110.9	408.3	1368.9	562.7	366.1
97.5°	183.6	457.3	2027.9	1561.3	1130.7
100°	237.2	486.7	2271.3	2287.3	1858.8
102.5°	288.7	520.1	2318.7	2826.1	2419.8
105°	371.2	572.9	2291.9	3498.9	3294.7
107.5°	458.9	638.4	2164.0	3823.4	3898.0
110°	520.8	682.1	2065.0	3893.2	4135.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	731.7	1972.2	3838.1	4195.0
115°	665.1	803.8	1845.9	3654.2	4155.8
117.5°	742.5	880.6	1762.9	3395.4	3966.1
120°	794.0	930.2	1729.9	3220.2	3794.9
122.5°	843.5	973.6	1703.1	3056.5	3601.0
125°	912.6	1038.7	1673.2	2831.6	3323.1
127.5°	971.4	1097.4	1655.6	2641.3	3065.3
130°	1010.6	1136.6	1647.4	2524.9	2910.6
132.5°	1047.7	1167.7	1639.1	2427.2	2776.6
135°	1098.2	1216.7	1626.7	2293.4	2585.8
137.5°	1155.0	1262.9	1620.6	2181.0	2430.6
140°	1185.9	1291.8	1616.4	2106.1	2325.4
142.5°	1221.0	1318.8	1612.3	2039.5	2232.6
145°	1273.6	1361.8	1606.1	1952.4	2101.1
147.5°	1324.1	1401.2	1600.5	1878.9	1994.4
150°	1361.2	1424.2	1598.4	1835.1	1928.4
152.5°	1390.1	1449.1	1596.3	1797.6	1874.8
155°	1436.0	1483.9	1593.2	1751.8	1807.2
157.5°	1478.3	1515.1	1593.7	1718.4	1756.2
160°	1503.0	1535.8	1595.8	1699.6	1727.3
162.5°	1523.6	1552.4	1597.9	1682.9	1704.6
165°	1554.6	1574.7	1601.0	1663.1	1675.7
167.5°	1578.3	1590.4	1603.5	1651.1	1655.1
170°	1590.7	1600.7	1603.5	1644.8	1644.8
172.5°	1601.0	1607.0	1603.5	1636.5	1634.5
175°	1611.3	1613.8	1603.5	1626.6	1621.6
177.5°	1615.4	1613.4	1603.0	1617.4	1613.3
180°	1611.3	1611.3	1611.3	1611.3	1611.3

(END OF REPORT)