

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: P563139

Luminaire Tested: **SQ4-PC3-150U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563139  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-100D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

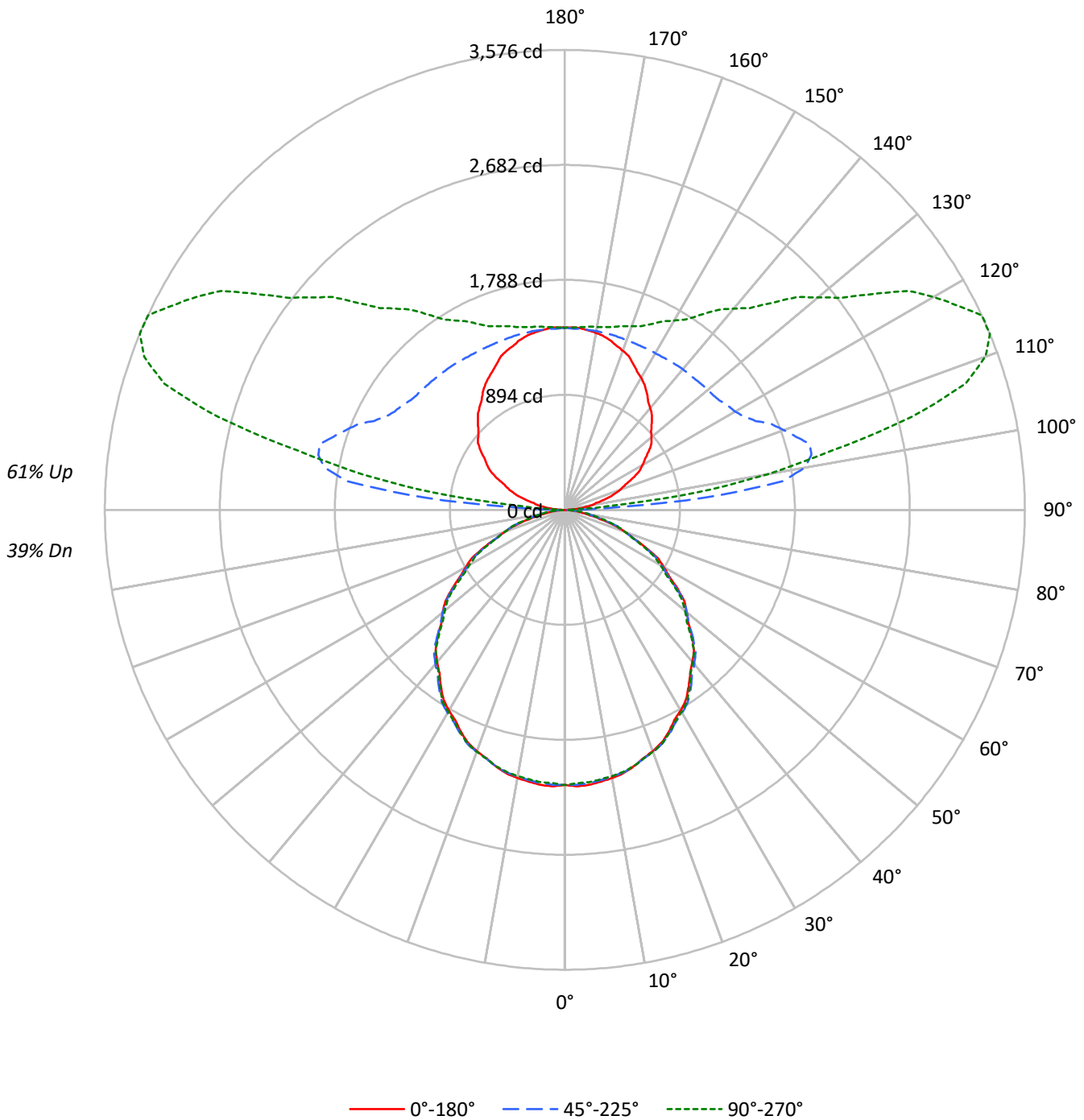
Lumens per Lamp: N/A  
Luminaire Lumens: 14969.0 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 112.7  
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13144
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11847	11847	11658
55°	11472	11323	11153
60°	10918	10699	10528
65°	10092	9889	9802
70°	8835	8907	8871
75°	7108	7861	7909
80°	5051	6666	6737
85°	3077	5589	5589



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	1.4
10°-20°	581.1	3.9
20°-30°	879.9	5.9
30°-40°	1054.9	7.0
40°-50°	1075.7	7.2
50°-60°	939.0	6.3
60°-70°	672.2	4.5
70°-80°	346.2	2.3
80°-90°	90.5	0.6
90°-100°	657.9	4.4
100°-110°	1778.8	11.9
110°-120°	1870.1	12.5
120°-130°	1519.0	10.1
130°-140°	1191.6	8.0
140°-150°	914.5	6.1
150°-160°	657.7	4.4
160°-170°	401.8	2.7
170°-180°	135.5	0.9
0°-30°	1663.5	11.1
0°-40°	2718.4	18.2
0°-60°	4733.1	31.6
0°-90°	5842.1	39.0
90°-120°	4306.8	28.8
90°-150°	7931.9	53.0
90°-180°	9127.0	61.0
0°-180°	14969.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2147	2126	2134	2128	2126	204
15°	2066	2049	2066	2066	2064	583
25°	1908	1894	1922	1916	1916	878
35°	1678	1674	1704	1692	1692	1049
45°	1399	1395	1408	1391	1387	1077
55°	1070	1056	1056	1040	1040	954
65°	693	678	680	674	674	686
75°	299	313	331	333	333	323
85°	44	67	79	81	79	59
90°	3	9	20	21	20	9
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2152.2	2133.6	2139.5	2134.6	2126.8
5°	2147.4	2126.1	2133.6	2127.6	2125.6
7.5°	2132.0	2110.7	2120.5	2116.5	2114.5
10°	2117.7	2096.4	2107.8	2103.8	2101.9
12.5°	2098.7	2078.9	2092.0	2088.0	2087.6
15°	2066.2	2048.8	2066.2	2066.2	2064.2
17.5°	2025.4	2009.5	2028.2	2029.3	2028.2
20°	1996.9	1979.4	2002.8	2000.9	2002.8
22.5°	1962.0	1947.7	1972.7	1967.6	1969.5
25°	1907.7	1894.2	1921.6	1915.7	1915.7
27.5°	1843.5	1833.9	1863.7	1857.4	1857.4
30°	1800.8	1791.1	1822.5	1814.6	1814.6
32.5°	1753.2	1746.6	1776.6	1767.1	1767.1
35°	1677.9	1674.1	1703.7	1691.8	1691.8
37.5°	1600.3	1596.8	1623.6	1609.3	1604.6
40°	1543.2	1541.3	1565.0	1549.2	1549.2
42.5°	1486.2	1484.2	1504.8	1485.8	1485.8
45°	1398.6	1394.7	1408.5	1390.6	1386.7
47.5°	1303.1	1299.2	1307.9	1288.4	1286.5
50°	1238.1	1234.3	1238.1	1220.3	1218.3
52.5°	1171.6	1164.6	1165.2	1147.4	1147.0
55°	1069.8	1056.2	1055.9	1040.0	1040.0
57.5°	962.0	944.2	945.7	932.2	930.3
60°	887.5	868.1	869.7	857.7	855.8
62.5°	814.6	792.1	796.8	783.3	782.9
65°	693.4	677.9	679.5	673.5	673.5
67.5°	576.9	562.5	572.9	568.1	567.8
70°	491.3	481.6	495.3	495.2	493.3
72.5°	412.1	411.7	428.7	428.7	429.9
75°	299.1	312.7	330.8	332.8	332.8
77.5°	199.7	223.7	243.7	244.4	244.1
80°	142.6	169.8	188.2	192.1	190.2
82.5°	96.7	125.3	140.7	144.6	142.6
85°	43.6	66.8	79.2	81.2	79.2
87.5°	13.3	28.4	35.7	35.9	32.5
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)