

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: P563811

Luminaire Tested: **SQ4-PP3-150U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563811  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-100D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

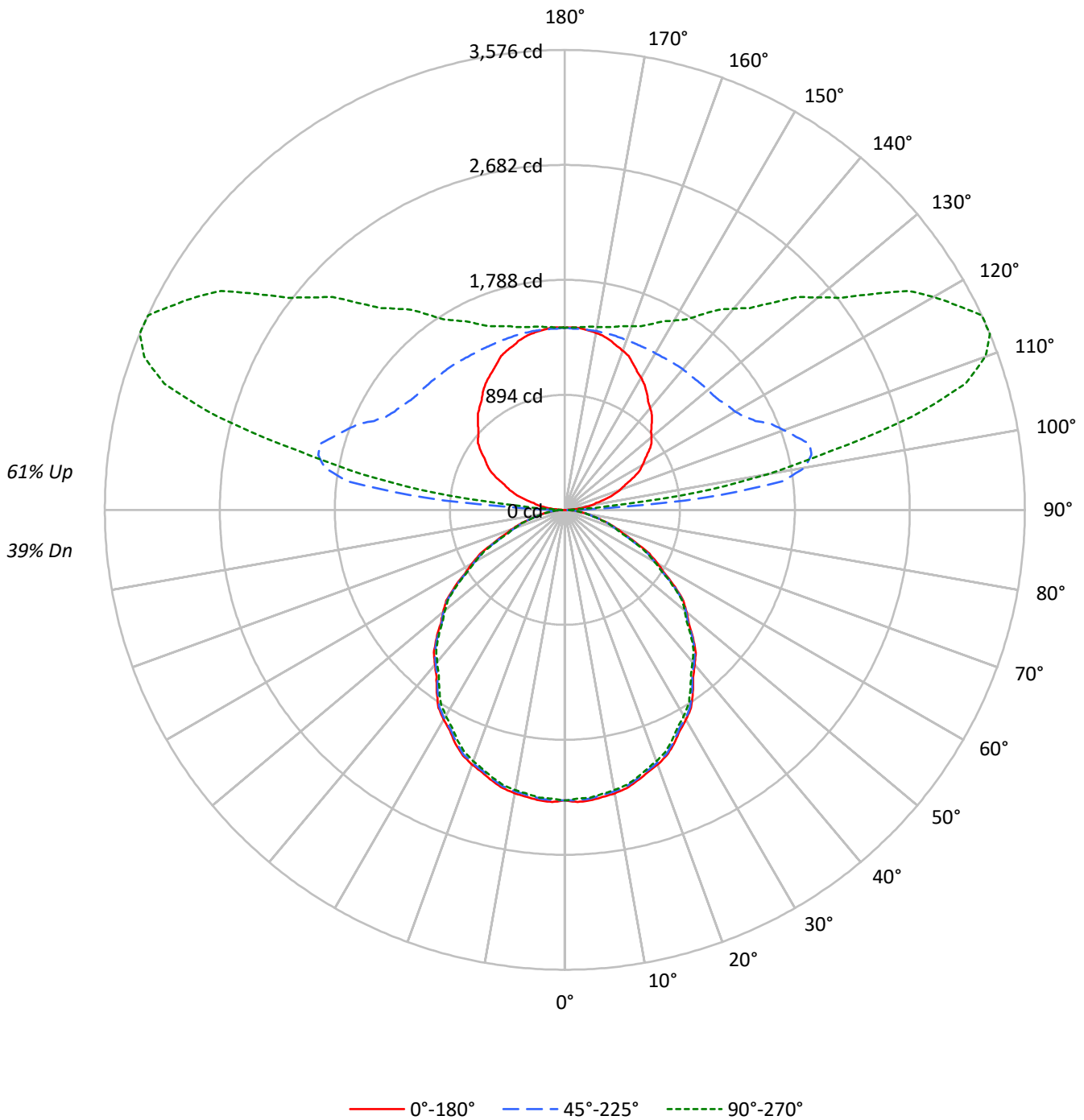
Lumens per Lamp: N/A  
Luminaire Lumens: 14913.7 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13028	12938	12775
40°	12611	12531	12388
45°	12267	12181	12060
50°	11826	11750	11637
55°	11214	11066	10980
60°	10209	9916	9867
65°	8993	8619	8590
70°	7765	7443	7443
75°	6683	6590	6495
80°	5894	5961	5823
85°	4615	5032	5032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.7	1.4
10°-20°	610.1	4.1
20°-30°	913.9	6.1
30°-40°	1072.0	7.2
40°-50°	1075.3	7.2
50°-60°	917.4	6.2
60°-70°	598.3	4.0
70°-80°	300.1	2.0
80°-90°	86.0	0.6
90°-100°	657.9	4.4
100°-110°	1778.8	11.9
110°-120°	1870.1	12.5
120°-130°	1519.0	10.2
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°	1737.7	11.7
0°-40°	2809.7	18.8
0°-60°	4802.4	32.2
0°-90°	5786.8	38.8
90°-120°	4306.8	28.9
90°-150°	7931.9	53.2
90°-180°	9127.0	61.2
0°-180°	14913.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2268	2246	2254	2246	2246	215
15°	2181	2159	2169	2161	2157	615
25°	2008	1985	1994	1977	1975	923
35°	1735	1718	1723	1703	1701	1084
45°	1410	1400	1400	1386	1386	1086
55°	1046	1042	1032	1026	1024	929
65°	618	606	592	588	590	617
75°	281	281	277	275	273	305
85°	65	71	71	71	71	77
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°	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2274.1	2255.5	2259.8	2256.4	2247.1
5°	2267.7	2246.4	2253.9	2246.0	2246.0
7.5°	2252.3	2229.0	2236.4	2228.5	2228.1
10°	2238.0	2214.8	2222.2	2214.2	2212.3
12.5°	2217.4	2194.2	2203.2	2193.7	2193.3
15°	2180.6	2159.3	2168.7	2160.7	2156.8
17.5°	2139.0	2115.8	2127.1	2116.0	2114.4
20°	2107.3	2084.1	2095.4	2079.6	2079.6
22.5°	2069.3	2046.0	2059.0	2038.4	2038.4
25°	2008.3	1985.0	1994.4	1976.6	1974.6
27.5°	1935.8	1912.9	1922.7	1902.5	1902.1
30°	1883.5	1862.2	1873.6	1851.8	1849.8
32.5°	1826.5	1806.7	1815.0	1793.2	1791.2
35°	1735.0	1717.5	1723.1	1703.2	1701.3
37.5°	1638.7	1620.9	1627.2	1610.2	1609.4
40°	1570.6	1559.0	1560.7	1546.7	1542.9
42.5°	1507.2	1494.0	1495.7	1481.8	1481.1
45°	1410.2	1400.5	1400.3	1386.4	1386.4
47.5°	1307.2	1299.8	1297.7	1286.2	1285.8
50°	1235.9	1230.1	1227.9	1218.0	1216.1
52.5°	1161.4	1158.7	1151.9	1143.6	1143.2
55°	1045.7	1041.9	1031.9	1025.9	1023.9
57.5°	920.2	912.4	901.2	892.5	894.0
60°	829.9	822.1	806.1	802.1	802.1
62.5°	742.7	733.4	717.4	711.9	715.0
65°	617.9	606.3	592.2	588.3	590.2
67.5°	504.6	494.2	478.9	478.9	477.3
70°	431.8	426.0	413.9	413.9	413.9
72.5°	366.8	364.1	355.3	355.3	353.7
75°	281.2	281.2	277.3	275.3	273.3
77.5°	210.7	211.5	209.5	207.5	204.0
80°	166.4	170.2	168.3	166.3	164.4
82.5°	125.2	129.0	128.7	125.2	124.8
85°	65.4	71.2	71.3	71.3	71.3
87.5°	18.0	25.4	29.3	29.6	30.9
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)