

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: P563824

Luminaire Tested: **SQ4-PP3-150U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563824  
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-940-1D-UNV-STD-W-8  
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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

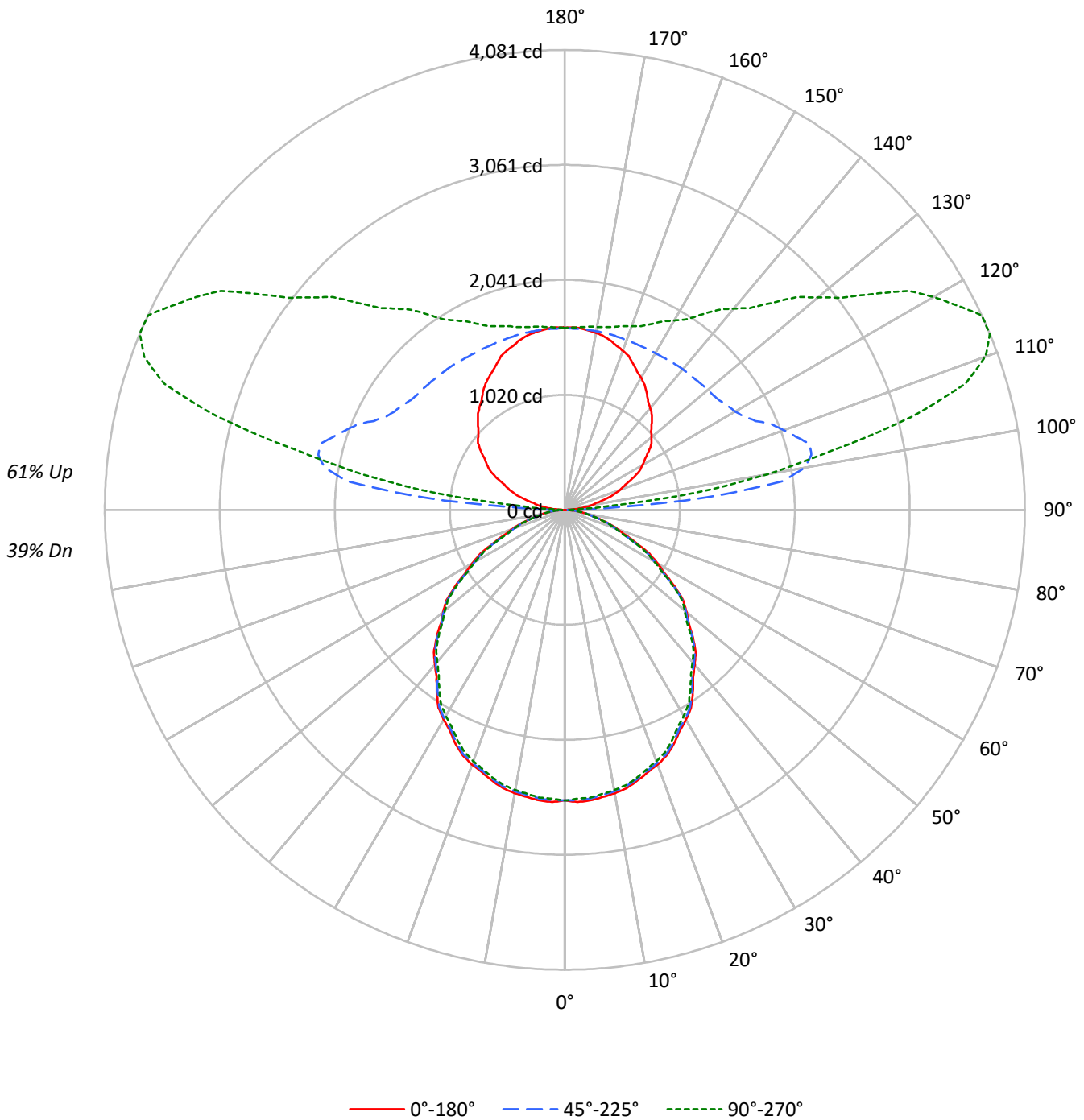
Lumens per Lamp: N/A  
Luminaire Lumens: 17018.9 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 148.4  
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	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°	11896	11896	11896
5°	11983	11910	11869
10°	11963	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11245
35°	11150	11073	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10121	10057	9959
55°	9597	9470	9398
60°	8737	8487	8446
65°	7698	7377	7352
70°	6645	6372	6372
75°	5720	5639	5559
80°	5045	5103	4984
85°	3949	4308	4308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.8	1.4
10°-20°	696.3	4.1
20°-30°	1042.9	6.1
30°-40°	1223.3	7.2
40°-50°	1227.1	7.2
50°-60°	1046.8	6.2
60°-70°	682.7	4.0
70°-80°	342.5	2.0
80°-90°	98.2	0.6
90°-100°	750.7	4.4
100°-110°	2029.9	11.9
110°-120°	2134.1	12.5
120°-130°	1733.5	10.2
130°-140°	1359.8	8.0
140°-150°	1043.6	6.1
150°-160°	750.6	4.4
160°-170°	458.5	2.7
170°-180°	154.6	0.9
0°-30°	1983.0	11.7
0°-40°	3206.4	18.8
0°-60°	5480.3	32.2
0°-90°	6603.7	38.8
90°-120°	4914.7	28.9
90°-150°	9051.5	53.2
90°-180°	10415.0	61.2
0°-180°	17018.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2588	2564	2572	2563	2563	246
15°	2488	2464	2475	2466	2461	702
25°	2292	2265	2276	2256	2253	1054
35°	1980	1960	1966	1944	1941	1237
45°	1609	1598	1598	1582	1582	1239
55°	1193	1189	1178	1171	1168	1061
65°	705	692	676	671	674	704
75°	321	321	316	314	312	348
85°	75	81	81	81	81	88
90°	4	10	23	24	23	11
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	

TEST NUMBER: P563824

CATALOG NUMBER: SQ4-PP3-150U-100D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2595.1	2573.9	2578.8	2574.9	2564.3
5°	2587.8	2563.5	2572.0	2563.0	2563.0
7.5°	2570.2	2543.7	2552.1	2543.1	2542.6
10°	2553.9	2527.4	2535.9	2526.8	2524.6
12.5°	2530.4	2503.9	2514.2	2503.3	2502.9
15°	2488.4	2464.1	2474.8	2465.7	2461.3
17.5°	2440.9	2414.4	2427.4	2414.7	2412.9
20°	2404.8	2378.3	2391.2	2373.1	2373.1
22.5°	2361.4	2334.9	2349.6	2326.1	2326.1
25°	2291.8	2265.2	2275.9	2255.6	2253.3
27.5°	2209.0	2183.0	2194.1	2171.1	2170.6
30°	2149.4	2125.1	2138.1	2113.2	2111.0
32.5°	2084.3	2061.7	2071.2	2046.3	2044.1
35°	1979.9	1960.0	1966.3	1943.7	1941.4
37.5°	1870.0	1849.7	1856.9	1837.5	1836.6
40°	1792.3	1779.0	1781.0	1765.1	1760.6
42.5°	1720.0	1704.9	1706.8	1691.0	1690.1
45°	1609.2	1598.2	1597.9	1582.1	1582.1
47.5°	1491.7	1483.3	1480.8	1467.7	1467.3
50°	1410.3	1403.7	1401.3	1389.9	1387.7
52.5°	1325.3	1322.2	1314.5	1305.0	1304.5
55°	1193.3	1188.9	1177.5	1170.7	1168.5
57.5°	1050.1	1041.2	1028.4	1018.5	1020.2
60°	947.0	938.2	919.9	915.4	915.4
62.5°	847.5	836.9	818.6	812.4	815.9
65°	705.2	691.9	675.8	671.3	673.5
67.5°	575.9	563.9	546.5	546.5	544.7
70°	492.7	486.1	472.4	472.4	472.4
72.5°	418.6	415.5	405.5	405.4	403.7
75°	320.9	320.9	316.4	314.1	311.9
77.5°	240.5	241.4	239.1	236.8	232.8
80°	189.9	194.3	192.1	189.8	187.6
82.5°	142.8	147.3	146.9	142.8	142.4
85°	74.6	81.2	81.4	81.4	81.4
87.5°	20.6	29.0	33.5	33.8	35.3
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9

TEST NUMBER: P563824

CATALOG NUMBER: SQ4-PP3-150U-100D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)