

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: P563128

Luminaire Tested: **SQ4-PC3-150U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563128  
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-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

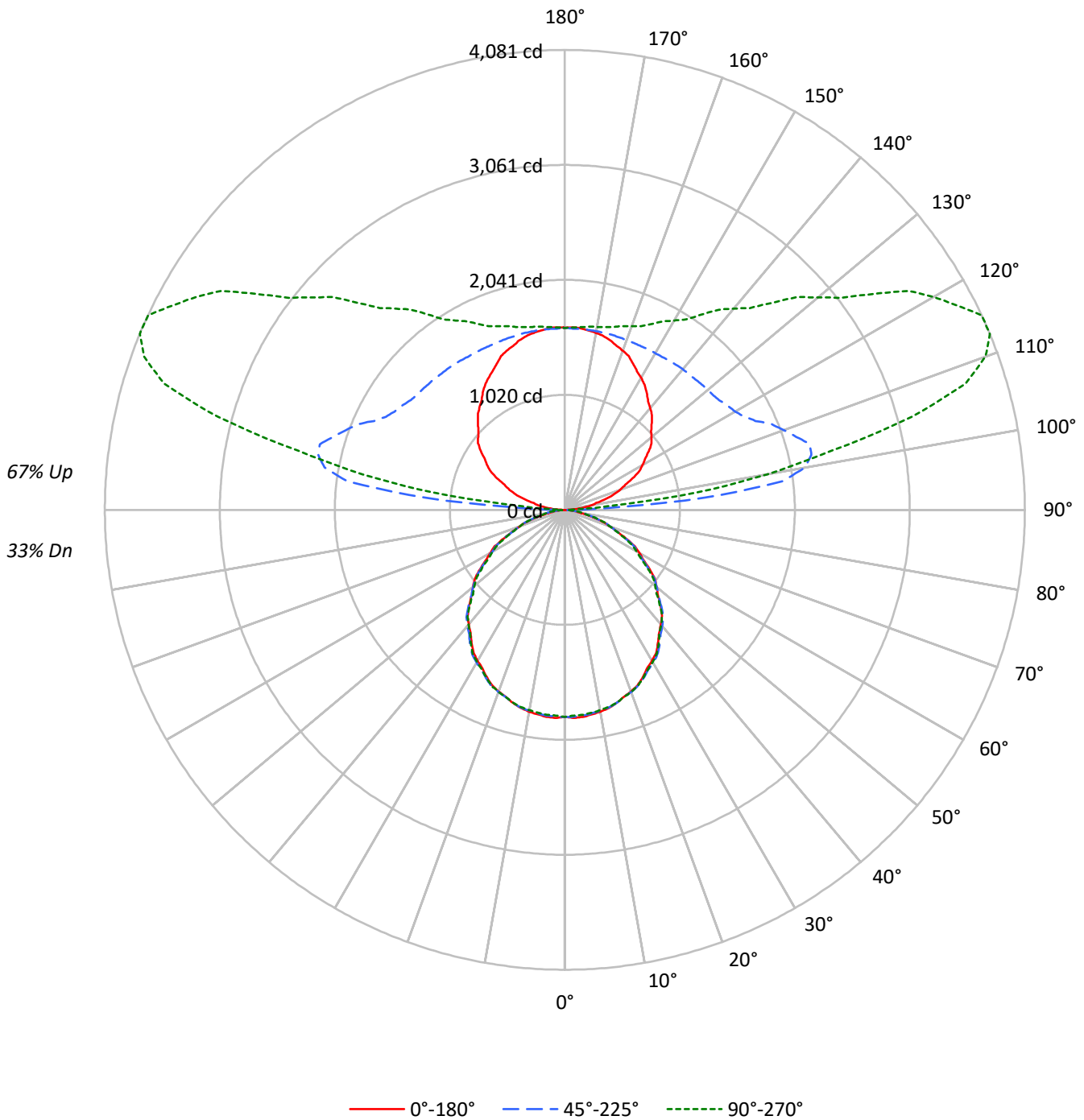
Lumens per Lamp: N/A  
Luminaire Lumens: 15433.5 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 131.1  
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	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	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°	8477	8477	8477
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8401	8375
30°	8238	8338	8302
35°	8116	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6891	6781
65°	6500	6370	6315
70°	5691	5738	5713
75°	4579	5064	5094
80°	3254	4293	4338
85°	1980	3604	3604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	1.1
10°-20°	499.0	3.2
20°-30°	755.7	4.9
30°-40°	906.0	5.9
40°-50°	923.9	6.0
50°-60°	806.4	5.2
60°-70°	577.3	3.7
70°-80°	297.4	1.9
80°-90°	78.6	0.5
90°-100°	750.7	4.9
100°-110°	2029.9	13.2
110°-120°	2134.1	13.8
120°-130°	1733.5	11.2
130°-140°	1359.8	8.8
140°-150°	1043.6	6.8
150°-160°	750.6	4.9
160°-170°	458.5	3.0
170°-180°	154.6	1.0
0°-30°	1428.7	9.3
0°-40°	2334.7	15.1
0°-60°	4065.0	26.3
0°-90°	5018.3	32.5
90°-120°	4914.7	31.8
90°-150°	9051.5	58.6
90°-180°	10415.0	67.5
0°-180°	15433.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1844	1826	1832	1827	1826	175
15°	1775	1760	1775	1774	1773	500
25°	1638	1627	1650	1645	1645	754
35°	1441	1438	1463	1453	1453	901
45°	1201	1198	1210	1194	1191	925
55°	919	907	907	893	893	819
65°	596	582	584	578	578	589
75°	257	269	284	286	286	278
85°	37	57	68	70	68	51
90°	4	10	23	24	23	9
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1848.4	1832.4	1837.5	1833.3	1826.6
5°	1844.3	1826.0	1832.4	1827.3	1825.6
7.5°	1831.1	1812.8	1821.2	1817.7	1816.1
10°	1818.8	1800.5	1810.3	1806.9	1805.2
12.5°	1802.5	1785.5	1796.7	1793.3	1792.9
15°	1774.6	1759.6	1774.6	1774.5	1772.9
17.5°	1739.5	1725.9	1741.9	1742.9	1741.9
20°	1715.0	1700.0	1720.1	1718.5	1720.1
22.5°	1685.1	1672.8	1694.3	1689.9	1691.5
25°	1638.5	1626.8	1650.4	1645.3	1645.3
27.5°	1583.3	1575.0	1600.7	1595.2	1595.2
30°	1546.6	1538.3	1565.3	1558.5	1558.5
32.5°	1505.7	1500.1	1525.8	1517.7	1517.7
35°	1441.1	1437.8	1463.2	1453.0	1453.0
37.5°	1374.4	1371.4	1394.5	1382.1	1378.1
40°	1325.4	1323.7	1344.1	1330.5	1330.5
42.5°	1276.4	1274.7	1292.4	1276.1	1276.1
45°	1201.2	1197.9	1209.7	1194.3	1191.0
47.5°	1119.2	1115.9	1123.3	1106.6	1104.9
50°	1063.4	1060.1	1063.4	1048.0	1046.4
52.5°	1006.2	1000.2	1000.8	985.4	985.1
55°	918.8	907.1	906.8	893.2	893.2
57.5°	826.2	810.9	812.3	800.6	799.0
60°	762.2	745.6	746.9	736.7	735.0
62.5°	699.6	680.3	684.3	672.7	672.4
65°	595.5	582.2	583.6	578.5	578.5
67.5°	495.4	483.1	492.0	488.0	487.6
70°	421.9	413.6	425.4	425.3	423.6
72.5°	353.9	353.6	368.2	368.2	369.2
75°	256.9	268.6	284.1	285.8	285.8
77.5°	171.5	192.1	209.3	209.9	209.6
80°	122.5	145.8	161.6	165.0	163.3
82.5°	83.0	107.6	120.8	124.2	122.5
85°	37.4	57.4	68.1	69.7	68.1
87.5°	11.6	24.9	31.7	32.0	29.0
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



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**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)