

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: P563112

Luminaire Tested: **SQ4-PC3-150U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563112  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

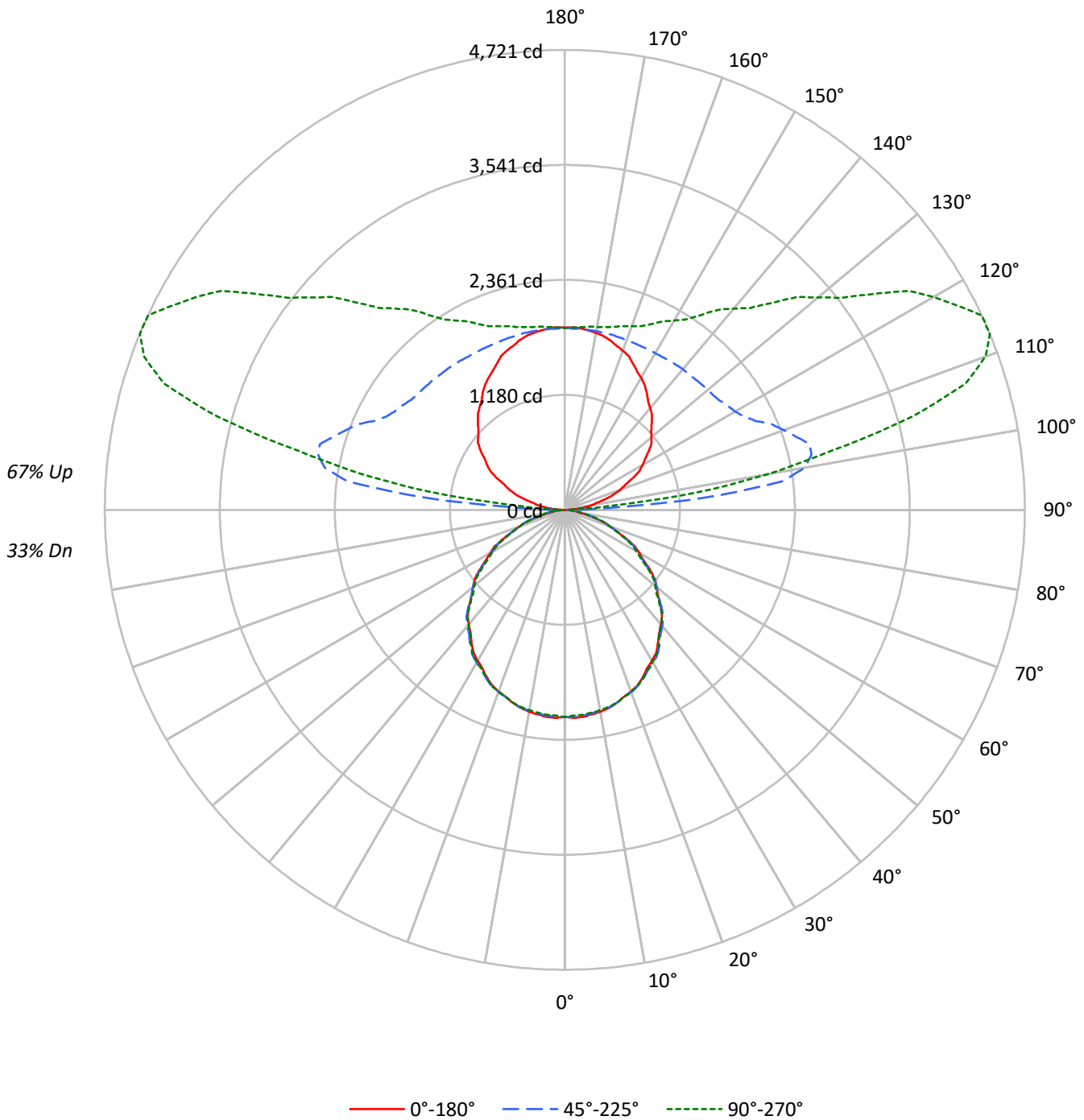
Lumens per Lamp: N/A  
Luminaire Lumens: 17852.9 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8311
60°	8135	7971	7844
65°	7519	7369	7305
70°	6583	6636	6610
75°	5297	5859	5893
80°	3764	4968	5018
85°	2292	4166	4166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	1.1
10°-20°	577.3	3.2
20°-30°	874.2	4.9
30°-40°	1048.1	5.9
40°-50°	1068.7	6.0
50°-60°	932.9	5.2
60°-70°	667.9	3.7
70°-80°	344.0	1.9
80°-90°	90.9	0.5
90°-100°	868.4	4.9
100°-110°	2348.1	13.2
110°-120°	2468.6	13.8
120°-130°	2005.2	11.2
130°-140°	1572.9	8.8
140°-150°	1207.2	6.8
150°-160°	868.2	4.9
160°-170°	530.4	3.0
170°-180°	178.8	1.0
0°-30°	1652.7	9.3
0°-40°	2700.7	15.1
0°-60°	4702.3	26.3
0°-90°	5805.0	32.5
90°-120°	5685.1	31.8
90°-150°	10470.5	58.6
90°-180°	12048.0	67.5
0°-180°	17852.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2133	2112	2120	2114	2112	203
15°	2053	2035	2053	2053	2051	579
25°	1895	1882	1909	1903	1903	872
35°	1667	1663	1693	1681	1681	1043
45°	1390	1386	1399	1382	1378	1070
55°	1063	1049	1049	1033	1033	947
65°	689	673	675	669	669	681
75°	297	311	329	331	331	321
85°	43	66	79	81	79	59
90°	4	12	26	28	26	11
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2125.6	2125.6	2125.6	2125.6	2125.6
2.5°	2138.2	2119.7	2125.6	2120.7	2113.0
5°	2133.4	2112.3	2119.7	2113.7	2111.8
7.5°	2118.1	2096.9	2106.7	2102.7	2100.8
10°	2103.9	2082.8	2094.1	2090.1	2088.2
12.5°	2085.0	2065.4	2078.3	2074.4	2074.0
15°	2052.8	2035.4	2052.8	2052.7	2050.8
17.5°	2012.2	1996.4	2015.0	2016.1	2015.0
20°	1983.9	1966.5	1989.8	1987.8	1989.8
22.5°	1949.2	1935.0	1959.9	1954.8	1956.7
25°	1895.3	1881.8	1909.1	1903.2	1903.2
27.5°	1831.5	1821.9	1851.6	1845.3	1845.3
30°	1789.0	1779.4	1810.7	1802.8	1802.8
32.5°	1741.8	1735.2	1765.0	1755.6	1755.6
35°	1667.0	1663.2	1692.6	1680.8	1680.8
37.5°	1589.9	1586.4	1613.1	1598.8	1594.2
40°	1533.2	1531.2	1554.8	1539.1	1539.1
42.5°	1476.5	1474.6	1495.0	1476.1	1476.1
45°	1389.5	1385.6	1399.3	1381.5	1377.7
47.5°	1294.6	1290.8	1299.4	1280.0	1278.1
50°	1230.1	1226.2	1230.1	1212.3	1210.4
52.5°	1163.9	1157.0	1157.7	1139.9	1139.5
55°	1062.8	1049.3	1049.0	1033.3	1033.3
57.5°	955.7	938.0	939.6	926.2	924.2
60°	881.7	862.5	864.0	852.2	850.2
62.5°	809.3	787.0	791.6	778.2	777.8
65°	688.8	673.4	675.1	669.2	669.2
67.5°	573.1	558.9	569.2	564.4	564.1
70°	488.1	478.5	492.0	492.0	490.1
72.5°	409.4	409.0	425.9	425.9	427.1
75°	297.2	310.7	328.7	330.6	330.6
77.5°	198.4	222.2	242.1	242.9	242.5
80°	141.7	168.6	187.0	190.9	188.9
82.5°	96.0	124.5	139.7	143.6	141.7
85°	43.3	66.4	78.7	80.6	78.7
87.5°	13.4	28.8	36.7	37.0	33.6
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)