

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: P562953

Luminaire Tested: **SQ4-PC3-100U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562953  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

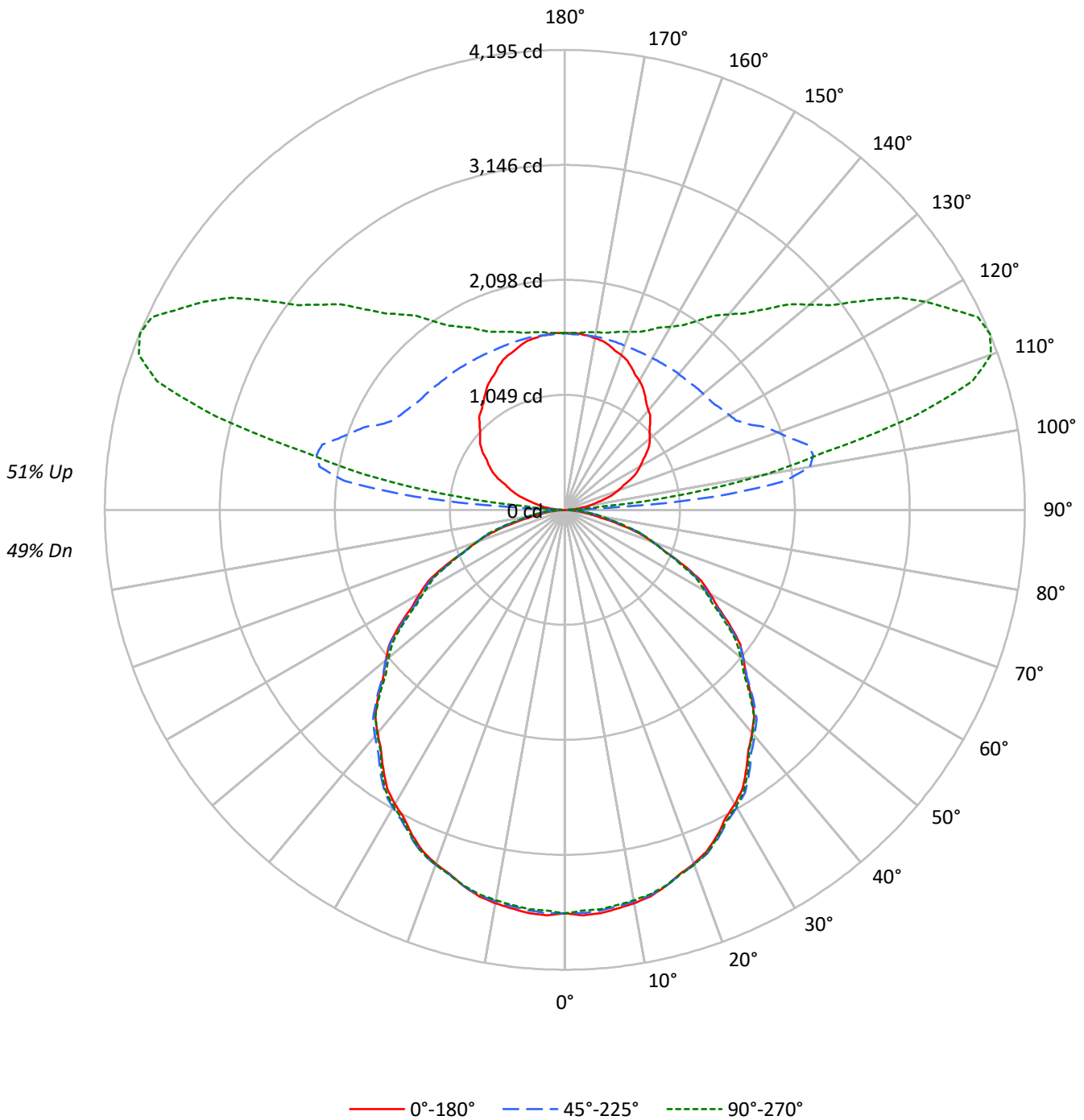
Lumens per Lamp: N/A  
Luminaire Lumens: 20518.7 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 182.2  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11219	11184
30°	11002	11135	11087
35°	10838	11004	10928
40°	10659	10810	10700
45°	10466	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7601	7662	7631
75°	6116	6763	6804
80°	4346	5735	5795
85°	2646	4810	4810



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.4	1.7
10°-20°	999.7	4.9
20°-30°	1513.9	7.4
30°-40°	1815.0	8.8
40°-50°	1850.7	9.0
50°-60°	1615.5	7.9
60°-70°	1156.6	5.6
70°-80°	595.7	2.9
80°-90°	154.0	0.8
90°-100°	754.6	3.7
100°-110°	2083.1	10.2
110°-120°	2148.4	10.5
120°-130°	1726.4	8.4
130°-140°	1356.8	6.6
140°-150°	1040.6	5.1
150°-160°	747.9	3.6
160°-170°	457.3	2.2
170°-180°	154.2	0.8
0°-30°	2862.0	13.9
0°-40°	4677.0	22.8
0°-60°	8143.2	39.7
0°-90°	10049.4	49.0
90°-120°	4986.1	24.3
90°-150°	9109.9	44.4
90°-180°	10469.0	51.0
0°-180°	20518.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3681	3681	3681	3681	3681	
5°	3695	3658	3671	3660	3657	351
15°	3555	3525	3555	3555	3551	1002
25°	3282	3259	3306	3296	3296	1511
35°	2887	2880	2931	2911	2911	1805
45°	2406	2400	2423	2392	2386	1852
55°	1840	1817	1817	1789	1789	1641
65°	1193	1166	1169	1159	1159	1180
75°	515	538	569	573	573	556
85°	75	115	136	140	136	102
90°	5	10	21	23	26	11
95°	111	408	1369	563	366	119
105°	371	573	2292	3499	3295	395
115°	665	804	1846	3654	4156	654
125°	913	1039	1673	2832	3323	812
135°	1098	1217	1627	2293	2586	850
145°	1274	1362	1606	1952	2101	797
155°	1436	1484	1593	1752	1807	662
165°	1555	1575	1601	1663	1676	438
175°	1611	1614	1604	1627	1622	153
180°	1611	1611	1611	1611	1611	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3681.0	3681.0	3681.0	3681.0	3681.0
2.5°	3702.8	3670.8	3681.0	3672.5	3659.2
5°	3694.6	3657.9	3670.7	3660.4	3657.1
7.5°	3668.0	3631.4	3648.2	3641.4	3638.0
10°	3643.5	3606.8	3626.4	3619.5	3616.2
12.5°	3610.8	3576.8	3599.2	3592.3	3591.7
15°	3554.9	3524.9	3554.9	3554.8	3551.4
17.5°	3484.6	3457.3	3489.4	3491.4	3489.4
20°	3435.6	3405.6	3445.8	3442.5	3445.8
22.5°	3375.6	3350.9	3394.0	3385.2	3388.5
25°	3282.2	3258.9	3306.1	3295.8	3295.8
27.5°	3171.8	3155.1	3206.5	3195.6	3195.6
30°	3098.1	3081.5	3135.6	3122.0	3122.0
32.5°	3016.3	3005.0	3056.6	3040.2	3040.2
35°	2886.8	2880.2	2931.1	2910.7	2910.7
37.5°	2753.2	2747.2	2793.4	2768.7	2760.7
40°	2655.1	2651.7	2692.6	2665.3	2665.3
42.5°	2556.9	2553.6	2588.9	2556.2	2556.2
45°	2406.3	2399.6	2423.3	2392.5	2385.8
47.5°	2242.0	2235.3	2250.2	2216.7	2213.3
50°	2130.2	2123.5	2130.2	2099.4	2096.1
52.5°	2015.7	2003.7	2004.8	1974.1	1973.4
55°	1840.5	1817.2	1816.6	1789.4	1789.4
57.5°	1655.1	1624.4	1627.1	1603.9	1600.5
60°	1526.9	1493.6	1496.2	1475.7	1472.4
62.5°	1401.5	1362.8	1370.8	1347.6	1347.0
65°	1192.9	1166.2	1169.0	1158.8	1158.8
67.5°	992.5	967.8	985.7	977.5	976.8
70°	845.3	828.6	852.1	852.0	848.7
72.5°	708.9	708.3	737.6	737.6	739.6
75°	514.7	538.0	569.2	572.6	572.6
77.5°	343.6	384.9	419.2	420.6	419.9
80°	245.4	292.1	323.8	330.5	327.2
82.5°	166.3	215.6	242.0	248.7	245.4
85°	75.0	115.0	136.3	139.7	136.3
87.5°	22.8	47.8	58.7	59.1	54.2
90°	5.2	10.2	20.6	23.3	25.8
92.5°	46.4	192.6	344.4	125.7	98.0
95°	110.9	408.3	1368.9	562.7	366.1
97.5°	183.6	457.3	2027.9	1561.3	1130.7
100°	237.2	486.7	2271.3	2287.3	1858.8
102.5°	288.7	520.1	2318.7	2826.1	2419.8
105°	371.2	572.9	2291.9	3498.9	3294.7
107.5°	458.9	638.4	2164.0	3823.4	3898.0
110°	520.8	682.1	2065.0	3893.2	4135.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	731.7	1972.2	3838.1	4195.0
115°	665.1	803.8	1845.9	3654.2	4155.8
117.5°	742.5	880.6	1762.9	3395.4	3966.1
120°	794.0	930.2	1729.9	3220.2	3794.9
122.5°	843.5	973.6	1703.1	3056.5	3601.0
125°	912.6	1038.7	1673.2	2831.6	3323.1
127.5°	971.4	1097.4	1655.6	2641.3	3065.3
130°	1010.6	1136.6	1647.4	2524.9	2910.6
132.5°	1047.7	1167.7	1639.1	2427.2	2776.6
135°	1098.2	1216.7	1626.7	2293.4	2585.8
137.5°	1155.0	1262.9	1620.6	2181.0	2430.6
140°	1185.9	1291.8	1616.4	2106.1	2325.4
142.5°	1221.0	1318.8	1612.3	2039.5	2232.6
145°	1273.6	1361.8	1606.1	1952.4	2101.1
147.5°	1324.1	1401.2	1600.5	1878.9	1994.4
150°	1361.2	1424.2	1598.4	1835.1	1928.4
152.5°	1390.1	1449.1	1596.3	1797.6	1874.8
155°	1436.0	1483.9	1593.2	1751.8	1807.2
157.5°	1478.3	1515.1	1593.7	1718.4	1756.2
160°	1503.0	1535.8	1595.8	1699.6	1727.3
162.5°	1523.6	1552.4	1597.9	1682.9	1704.6
165°	1554.6	1574.7	1601.0	1663.1	1675.7
167.5°	1578.3	1590.4	1603.5	1651.1	1655.1
170°	1590.7	1600.7	1603.5	1644.8	1644.8
172.5°	1601.0	1607.0	1603.5	1636.5	1634.5
175°	1611.3	1613.8	1603.5	1626.6	1621.6
177.5°	1615.4	1613.4	1603.0	1617.4	1613.3
180°	1611.3	1611.3	1611.3	1611.3	1611.3

(END OF REPORT)