

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: P562901

Luminaire Tested: **SQ4-PC3-100U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562901  
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-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

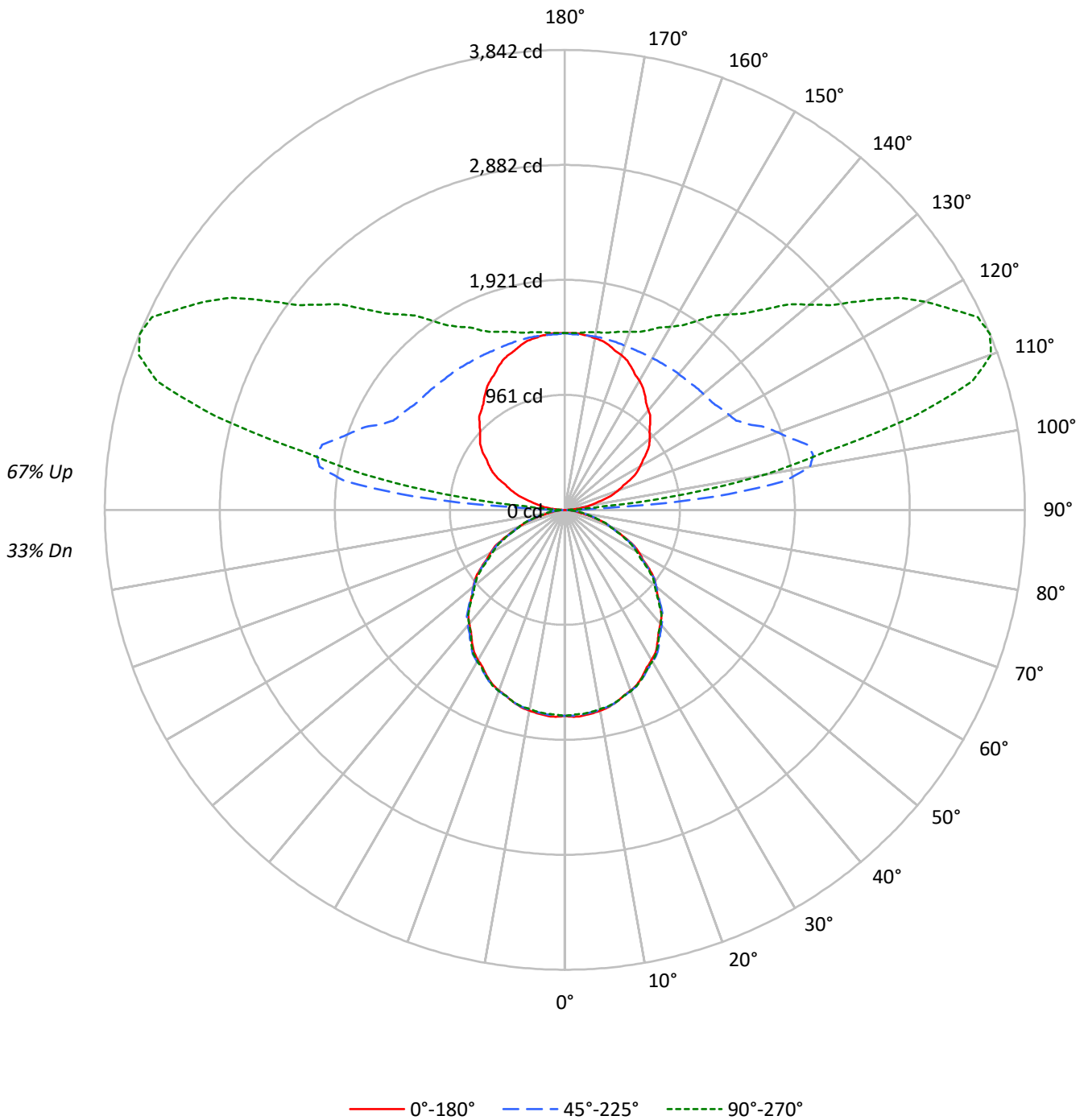
Lumens per Lamp: N/A  
Luminaire Lumens: 14289.1 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 127.4  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5208	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4060	3978	3943
70°	3554	3583	3569
75°	2860	3163	3182
80°	2033	2681	2710
85°	1239	2251	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	1.1
10°-20°	467.5	3.3
20°-30°	708.0	5.0
30°-40°	848.8	5.9
40°-50°	865.5	6.1
50°-60°	755.5	5.3
60°-70°	540.9	3.8
70°-80°	278.6	1.9
80°-90°	73.5	0.5
90°-100°	691.1	4.8
100°-110°	1907.8	13.4
110°-120°	1967.5	13.8
120°-130°	1581.1	11.1
130°-140°	1242.6	8.7
140°-150°	953.0	6.7
150°-160°	684.9	4.8
160°-170°	418.9	2.9
170°-180°	141.2	1.0
0°-30°	1338.4	9.4
0°-40°	2187.2	15.3
0°-60°	3808.2	26.7
0°-90°	4701.1	32.9
90°-120°	4566.4	32.0
90°-150°	8343.0	58.4
90°-180°	9588.0	67.1
0°-180°	14289.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1728	1711	1717	1712	1710	164
15°	1662	1648	1662	1662	1661	469
25°	1535	1524	1546	1541	1541	706
35°	1350	1347	1371	1361	1361	844
45°	1125	1122	1133	1119	1116	866
55°	861	850	850	837	837	767
65°	558	545	547	542	542	552
75°	241	252	266	268	268	260
85°	35	54	64	65	64	48
90°	5	9	19	21	24	9
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1721.4	1721.4	1721.4	1721.4	1721.4
2.5°	1731.6	1716.6	1721.4	1717.4	1711.2
5°	1727.8	1710.6	1716.6	1711.8	1710.2
7.5°	1715.4	1698.2	1706.1	1702.9	1701.3
10°	1703.9	1686.7	1695.9	1692.7	1691.1
12.5°	1688.6	1672.7	1683.2	1680.0	1679.6
15°	1662.4	1648.4	1662.4	1662.4	1660.8
17.5°	1629.6	1616.8	1631.8	1632.8	1631.8
20°	1606.6	1592.6	1611.4	1609.9	1611.4
22.5°	1578.6	1567.1	1587.2	1583.1	1584.7
25°	1534.9	1524.0	1546.1	1541.3	1541.3
27.5°	1483.3	1475.5	1499.5	1494.4	1494.4
30°	1448.9	1441.1	1466.4	1460.0	1460.0
32.5°	1410.6	1405.3	1429.4	1421.8	1421.8
35°	1350.0	1346.9	1370.7	1361.2	1361.2
37.5°	1287.5	1284.7	1306.4	1294.8	1291.1
40°	1241.6	1240.1	1259.2	1246.4	1246.4
42.5°	1195.7	1194.2	1210.7	1195.4	1195.4
45°	1125.3	1122.2	1133.3	1118.8	1115.7
47.5°	1048.5	1045.3	1052.3	1036.6	1035.1
50°	996.2	993.1	996.2	981.8	980.2
52.5°	942.6	937.0	937.5	923.2	922.9
55°	860.7	849.8	849.5	836.8	836.8
57.5°	774.0	759.7	760.9	750.1	748.5
60°	714.1	698.5	699.7	690.1	688.6
62.5°	655.4	637.3	641.1	630.2	629.9
65°	557.9	545.4	546.7	541.9	541.9
67.5°	464.1	452.6	461.0	457.1	456.8
70°	395.3	387.5	398.5	398.4	396.9
72.5°	331.5	331.2	344.9	344.9	345.9
75°	240.7	251.6	266.2	267.8	267.8
77.5°	160.7	180.0	196.0	196.7	196.4
80°	114.8	136.6	151.4	154.6	153.0
82.5°	77.8	100.8	113.2	116.3	114.8
85°	35.1	53.8	63.8	65.3	63.8
87.5°	11.1	23.3	29.3	29.7	27.7
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)