

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: P562949

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562949
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18791.5 lumens
Efficiency: N/A
Efficacy: 103.1 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

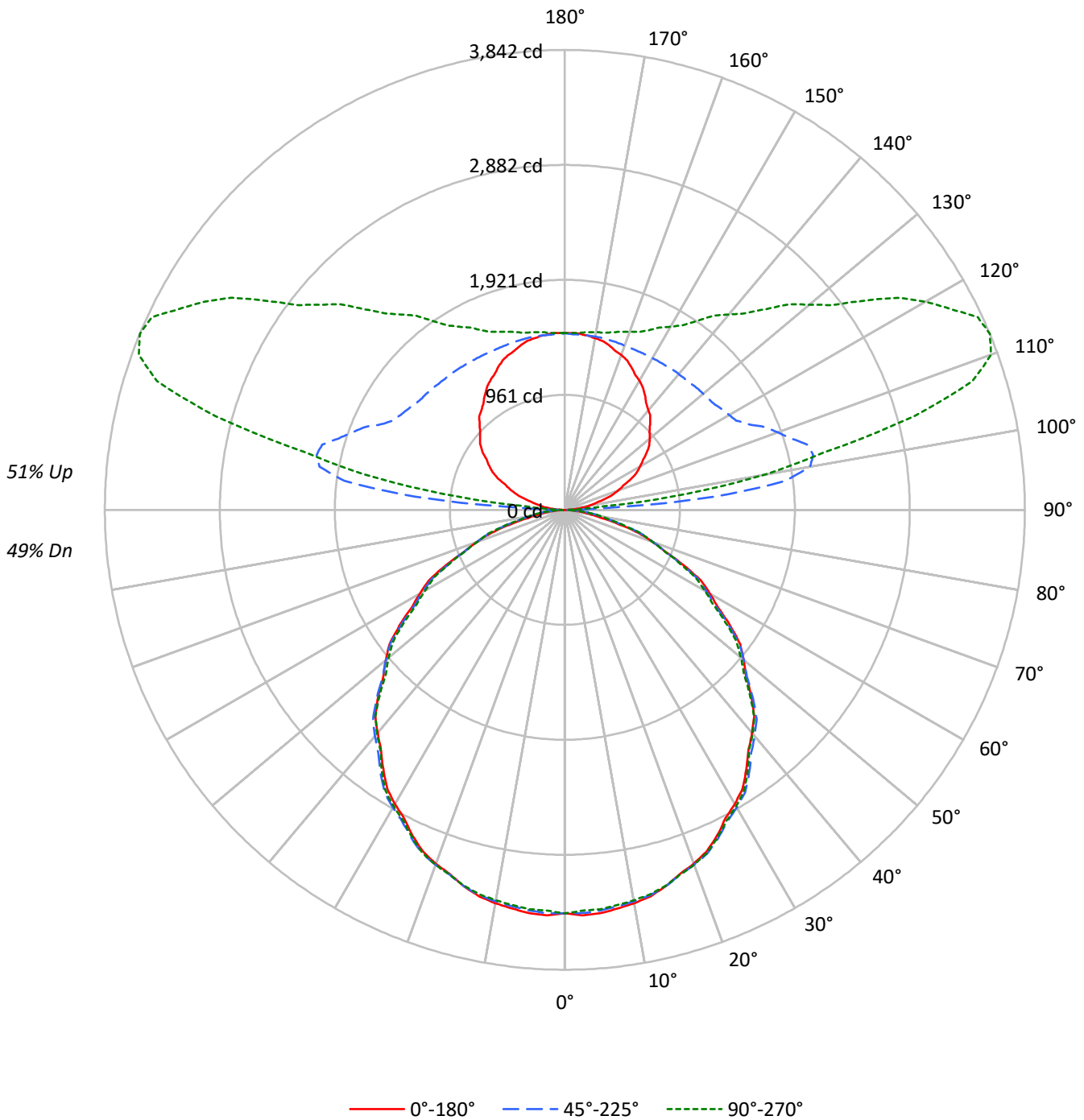
Input Watts (W): 182.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10367	10367	10367
5°	10446	10378	10340
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9799
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8786
60°	8601	8428	8294
65°	7950	7791	7723
70°	6961	7017	6988
75°	5600	6194	6231
80°	3980	5251	5308
85°	2424	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	1.7
10°-20°	915.6	4.9
20°-30°	1386.5	7.4
30°-40°	1662.2	8.8
40°-50°	1694.9	9.0
50°-60°	1479.5	7.9
60°-70°	1059.2	5.6
70°-80°	545.6	2.9
80°-90°	141.0	0.8
90°-100°	691.1	3.7
100°-110°	1907.8	10.2
110°-120°	1967.5	10.5
120°-130°	1581.1	8.4
130°-140°	1242.6	6.6
140°-150°	953.0	5.1
150°-160°	684.9	3.6
160°-170°	418.9	2.2
170°-180°	141.2	0.8
0°-30°	2621.1	13.9
0°-40°	4283.3	22.8
0°-60°	7457.7	39.7
0°-90°	9203.5	49.0
90°-120°	4566.4	24.3
90°-150°	8343.0	44.4
90°-180°	9588.0	51.0
0°-180°	18791.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3384	3350	3362	3352	3349	321
15°	3256	3228	3256	3256	3252	918
25°	3006	2985	3028	3018	3018	1383
35°	2644	2638	2684	2666	2666	1653
45°	2204	2198	2219	2191	2185	1696
55°	1686	1664	1664	1639	1639	1503
65°	1092	1068	1071	1061	1061	1080
75°	471	493	521	524	524	509
85°	69	105	125	128	125	93
90°	5	9	19	21	24	10
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°	3371.1	3371.1	3371.1	3371.1	3371.1
2.5°	3391.1	3361.8	3371.1	3363.4	3351.1
5°	3383.6	3350.0	3361.8	3352.3	3349.3
7.5°	3359.3	3325.7	3341.2	3334.8	3331.8
10°	3336.8	3303.2	3321.2	3314.9	3311.8
12.5°	3306.8	3275.7	3296.2	3290.0	3289.3
15°	3255.6	3228.2	3255.6	3255.6	3252.5
17.5°	3191.3	3166.3	3195.7	3197.5	3195.7
20°	3146.4	3118.9	3155.7	3152.7	3155.7
22.5°	3091.4	3068.9	3108.3	3100.3	3103.3
25°	3005.9	2984.6	3027.8	3018.4	3018.4
27.5°	2904.8	2889.5	2936.6	2926.6	2926.6
30°	2837.4	2822.1	2871.7	2859.2	2859.2
32.5°	2762.4	2752.1	2799.3	2784.3	2784.3
35°	2643.8	2637.7	2684.4	2665.7	2665.7
37.5°	2521.5	2516.0	2558.3	2535.7	2528.3
40°	2431.6	2428.5	2465.9	2440.9	2440.9
42.5°	2341.7	2338.6	2371.0	2341.1	2341.1
45°	2203.7	2197.6	2219.3	2191.1	2185.0
47.5°	2053.3	2047.2	2060.8	2030.1	2027.0
50°	1950.9	1944.8	1950.9	1922.7	1919.7
52.5°	1846.0	1835.0	1836.0	1807.9	1807.3
55°	1685.6	1664.2	1663.7	1638.7	1638.7
57.5°	1515.8	1487.7	1490.2	1468.9	1465.8
60°	1398.4	1367.9	1370.3	1351.5	1348.4
62.5°	1283.5	1248.1	1255.4	1234.2	1233.6
65°	1092.5	1068.1	1070.6	1061.3	1061.3
67.5°	909.0	886.4	902.7	895.2	894.6
70°	774.1	758.8	780.4	780.3	777.2
72.5°	649.3	648.6	675.5	675.5	677.3
75°	471.3	492.7	521.3	524.4	524.4
77.5°	314.6	352.5	383.9	385.2	384.6
80°	224.7	267.5	296.5	302.7	299.7
82.5°	152.3	197.5	221.6	227.8	224.7
85°	68.7	105.3	124.9	127.9	124.9
87.5°	20.9	43.8	53.7	54.1	49.7
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)