

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: P563621

Luminaire Tested: **SQ4-PP3-100U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563621
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

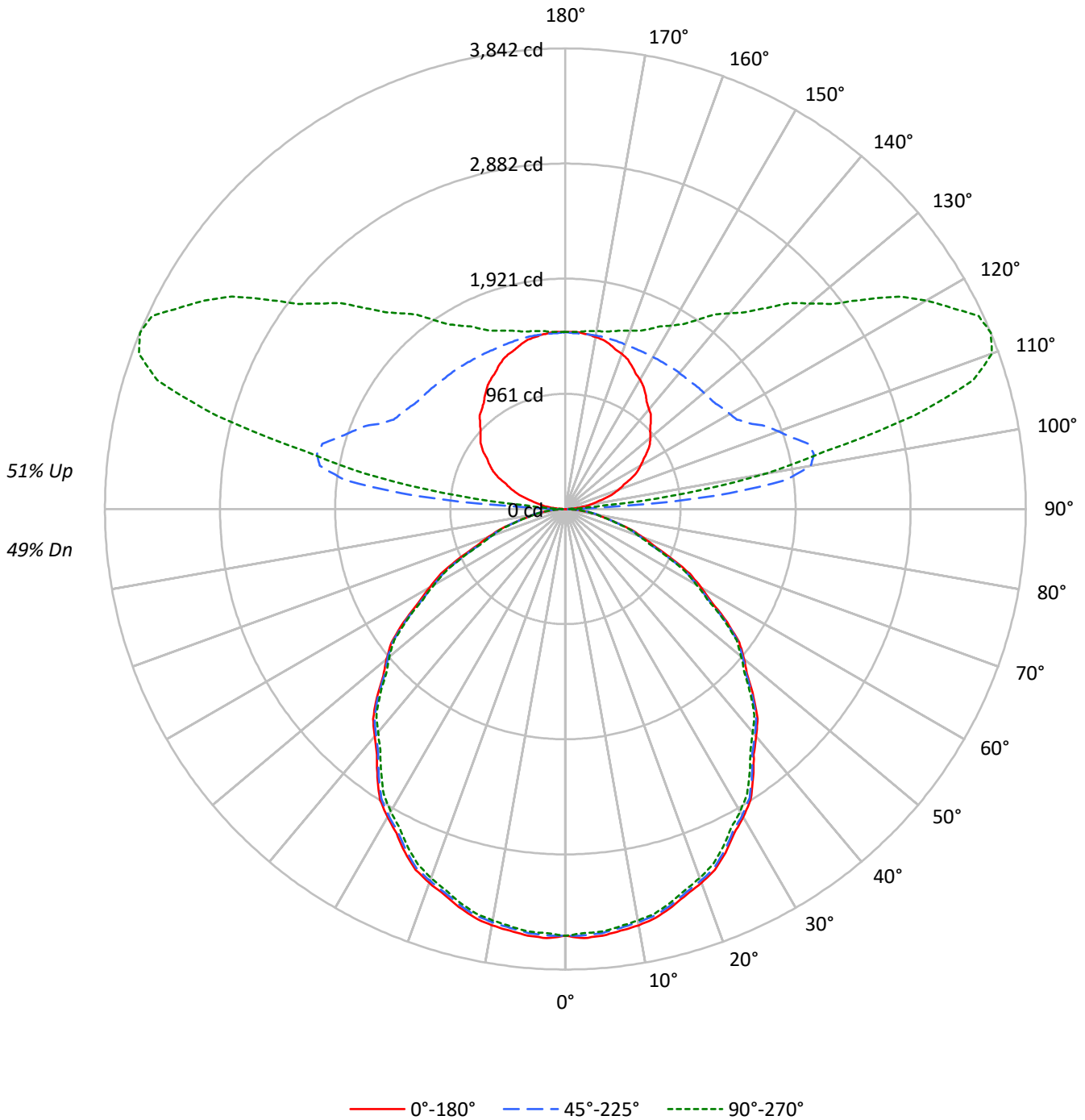
Lumens per Lamp: N/A
Luminaire Lumens: 18704.5 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10263	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8718	8651
60°	8043	7812	7774
65°	7085	6790	6768
70°	6117	5864	5864
75°	5265	5191	5118
80°	4642	4699	4587
85°	3634	3963	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	1.8
10°-20°	961.4	5.1
20°-30°	1440.0	7.7
30°-40°	1689.1	9.0
40°-50°	1694.3	9.1
50°-60°	1445.4	7.7
60°-70°	942.7	5.0
70°-80°	472.9	2.5
80°-90°	133.9	0.7
90°-100°	691.1	3.7
100°-110°	1907.8	10.2
110°-120°	1967.5	10.5
120°-130°	1581.1	8.5
130°-140°	1242.6	6.6
140°-150°	953.0	5.1
150°-160°	684.9	3.7
160°-170°	418.9	2.2
170°-180°	141.2	0.8
0°-30°	2738.1	14.6
0°-40°	4427.2	23.7
0°-60°	7566.9	40.5
0°-90°	9116.4	48.7
90°-120°	4566.4	24.4
90°-150°	8343.0	44.6
90°-180°	9588.0	51.3
0°-180°	18704.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3561	3561	3561	3561	3561	
5°	3573	3540	3551	3539	3539	339
15°	3436	3402	3417	3404	3398	969
25°	3164	3128	3142	3114	3111	1455
35°	2734	2706	2715	2684	2681	1708
45°	2222	2207	2206	2184	2184	1711
55°	1648	1642	1626	1616	1613	1464
65°	974	955	933	927	930	972
75°	443	443	437	434	431	481
85°	103	112	112	112	112	121
90°	5	9	19	21	24	11
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°	3560.7	3560.7	3560.7	3560.7	3560.7
2.5°	3583.2	3553.9	3560.7	3555.4	3540.7
5°	3573.2	3539.6	3551.3	3538.8	3538.8
7.5°	3548.8	3512.2	3523.9	3511.4	3510.8
10°	3526.4	3489.7	3501.4	3488.8	3485.8
12.5°	3493.9	3457.3	3471.4	3456.4	3455.8
15°	3435.9	3402.3	3417.1	3404.5	3398.4
17.5°	3370.3	3333.7	3351.6	3334.1	3331.6
20°	3320.4	3283.8	3301.7	3276.7	3276.7
22.5°	3260.5	3223.9	3244.3	3211.8	3211.8
25°	3164.4	3127.7	3142.5	3114.4	3111.3
27.5°	3050.1	3014.1	3029.5	2997.7	2997.1
30°	2967.8	2934.2	2952.2	2917.8	2914.7
32.5°	2877.9	2846.8	2859.8	2825.4	2822.3
35°	2733.7	2706.2	2715.0	2683.7	2680.7
37.5°	2582.0	2554.0	2563.9	2537.1	2535.9
40°	2474.7	2456.4	2459.1	2437.1	2431.0
42.5°	2374.8	2354.1	2356.7	2334.9	2333.6
45°	2221.9	2206.7	2206.3	2184.5	2184.5
47.5°	2059.6	2048.0	2044.7	2026.6	2025.9
50°	1947.3	1938.1	1934.8	1919.1	1916.1
52.5°	1830.0	1825.7	1815.0	1801.9	1801.3
55°	1647.7	1641.6	1625.9	1616.4	1613.4
57.5°	1449.9	1437.7	1419.9	1406.2	1408.7
60°	1307.6	1295.4	1270.1	1263.9	1263.9
62.5°	1170.3	1155.6	1130.3	1121.7	1126.6
65°	973.6	955.3	933.1	926.9	930.0
67.5°	795.1	778.7	754.6	754.5	752.1
70°	680.3	671.2	652.2	652.2	652.2
72.5°	577.9	573.7	559.8	559.8	557.4
75°	443.1	443.1	436.9	433.7	430.7
77.5°	332.0	333.3	330.2	326.9	321.4
80°	262.1	268.2	265.3	262.1	259.0
82.5°	197.2	203.3	202.8	197.2	196.6
85°	103.0	112.1	112.3	112.3	112.3
87.5°	28.4	39.1	43.7	44.3	47.2
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)