

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: P563573

Luminaire Tested: **SQ4-PP3-100U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563573
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-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

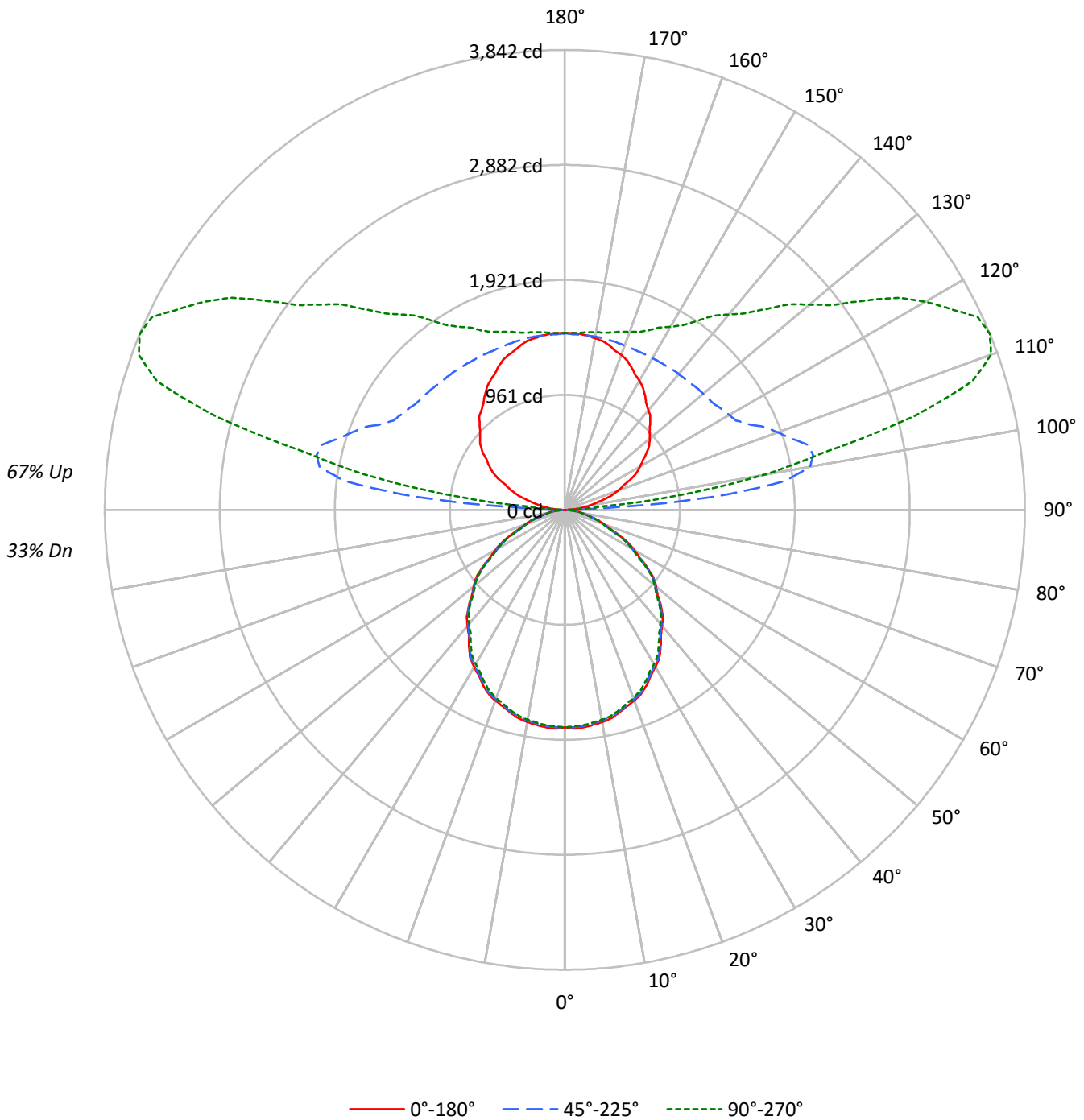
Lumens per Lamp: N/A
Luminaire Lumens: 14244.7 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5583	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4852
50°	4758	4727	4681
55°	4511	4451	4417
60°	4107	3989	3970
65°	3618	3467	3456
70°	3124	2994	2994
75°	2689	2651	2613
80°	2371	2398	2343
85°	1856	2025	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.2
10°-20°	490.9	3.4
20°-30°	735.3	5.2
30°-40°	862.5	6.1
40°-50°	865.2	6.1
50°-60°	738.1	5.2
60°-70°	481.4	3.4
70°-80°	241.5	1.7
80°-90°	69.9	0.5
90°-100°	691.1	4.9
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°	1398.2	9.8
0°-40°	2260.6	15.9
0°-60°	3863.9	27.1
0°-90°	4656.7	32.7
90°-120°	4566.4	32.1
90°-150°	8343.0	58.6
90°-180°	9588.0	67.3
0°-180°	14244.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1825	1807	1813	1807	1807	173
15°	1754	1737	1745	1738	1735	495
25°	1616	1597	1605	1590	1589	743
35°	1396	1382	1386	1370	1369	872
45°	1135	1127	1127	1116	1116	874
55°	841	838	830	825	824	748
65°	497	488	476	473	475	496
75°	226	226	223	222	220	246
85°	53	57	57	57	57	62
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°	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1829.7	1814.7	1818.2	1815.5	1808.0
5°	1824.6	1807.4	1813.4	1807.0	1807.0
7.5°	1812.1	1793.5	1799.4	1793.0	1792.7
10°	1800.7	1782.0	1787.9	1781.5	1780.0
12.5°	1784.1	1765.4	1772.6	1765.0	1764.7
15°	1754.5	1737.3	1744.9	1738.5	1735.3
17.5°	1721.0	1702.3	1711.4	1702.5	1701.2
20°	1695.5	1676.8	1685.9	1673.2	1673.2
22.5°	1664.9	1646.2	1656.6	1640.0	1640.0
25°	1615.8	1597.1	1604.7	1590.3	1588.7
27.5°	1557.5	1539.1	1547.0	1530.7	1530.4
30°	1515.4	1498.3	1507.5	1489.9	1488.3
32.5°	1469.5	1453.6	1460.3	1442.7	1441.2
35°	1395.9	1381.9	1386.4	1370.4	1368.8
37.5°	1318.5	1304.1	1309.2	1295.5	1294.9
40°	1263.7	1254.3	1255.7	1244.5	1241.4
42.5°	1212.7	1202.1	1203.4	1192.3	1191.6
45°	1134.6	1126.8	1126.6	1115.5	1115.5
47.5°	1051.7	1045.8	1044.1	1034.8	1034.5
50°	994.4	989.7	988.0	980.0	978.4
52.5°	934.4	932.3	926.8	920.1	919.8
55°	841.4	838.3	830.2	825.4	823.8
57.5°	740.3	734.1	725.1	718.1	719.3
60°	667.7	661.5	648.6	645.4	645.4
62.5°	597.6	590.1	577.2	572.8	575.3
65°	497.2	487.8	476.5	473.3	474.9
67.5°	406.0	397.6	385.3	385.3	384.0
70°	347.4	342.7	333.0	333.0	333.0
72.5°	295.1	292.9	285.9	285.8	284.6
75°	226.3	226.3	223.1	221.5	219.9
77.5°	169.6	170.2	168.6	166.9	164.1
80°	133.9	137.0	135.4	133.8	132.3
82.5°	100.7	103.8	103.6	100.7	100.4
85°	52.6	57.3	57.4	57.4	57.4
87.5°	15.0	20.9	24.2	24.7	26.4
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)