

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: P564455

Luminaire Tested: **SQ4-PR1-150U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564455
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

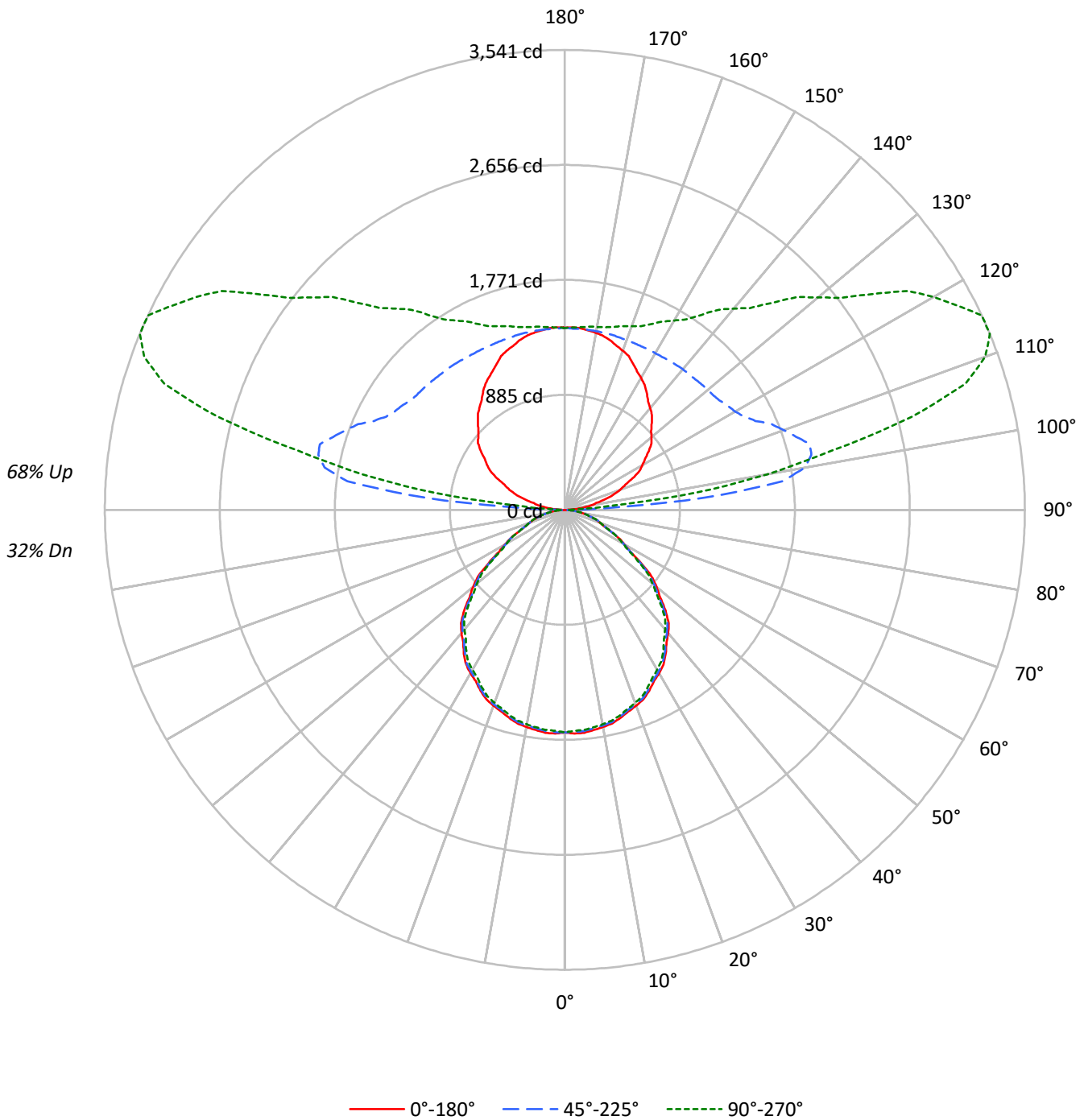
Lumens per Lamp: N/A
Luminaire Lumens: 13323.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10555	10490	10434
20°	10502	10435	10358
25°	10428	10358	10238
30°	10316	10242	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9528	9361	9167
50°	8814	8602	8432
55°	7693	7518	7361
60°	6483	6428	6301
65°	5608	5628	5586
70°	5151	5176	5176
75°	4945	4945	4981
80°	4654	4704	4654
85°	3747	4164	4164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.2
10°-20°	463.7	3.5
20°-30°	699.4	5.2
30°-40°	833.3	6.3
40°-50°	821.6	6.2
50°-60°	627.9	4.7
60°-70°	388.6	2.9
70°-80°	220.7	1.7
80°-90°	70.0	0.5
90°-100°	651.3	4.9
100°-110°	1761.1	13.2
110°-120°	1851.5	13.9
120°-130°	1503.9	11.3
130°-140°	1179.7	8.9
140°-150°	905.4	6.8
150°-160°	651.2	4.9
160°-170°	397.8	3.0
170°-180°	134.1	1.0
0°-30°	1325.1	9.9
0°-40°	2158.4	16.2
0°-60°	3607.8	27.1
0°-90°	4287.1	32.2
90°-120°	4263.9	32.0
90°-150°	7852.9	58.9
90°-180°	9036.0	67.8
0°-180°	13323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1723	1704	1709	1703	1700	163
15°	1658	1640	1647	1641	1638	468
25°	1537	1518	1526	1510	1509	707
35°	1354	1338	1342	1324	1323	845
45°	1095	1081	1076	1057	1054	839
55°	717	706	701	689	686	643
65°	385	382	387	384	384	390
75°	208	208	208	210	210	220
85°	53	56	59	59	59	62
90°	3	9	20	21	20	9
95°	101	355	1083	561	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3136	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1389	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713.7	1713.7	1713.7	1713.7	1713.7
2.5°	1724.4	1709.4	1713.7	1710.0	1701.9
5°	1722.6	1703.8	1709.3	1703.3	1700.5
7.5°	1709.3	1690.8	1696.3	1690.4	1688.6
10°	1697.5	1680.2	1685.7	1679.7	1676.8
12.5°	1684.5	1666.0	1672.7	1665.6	1662.7
15°	1657.6	1640.3	1647.3	1641.3	1638.5
17.5°	1628.1	1609.7	1616.6	1609.7	1606.0
20°	1604.5	1587.2	1594.2	1583.8	1582.4
22.5°	1578.5	1561.2	1568.2	1554.3	1554.0
25°	1536.6	1517.8	1526.3	1510.0	1508.6
27.5°	1486.7	1469.4	1476.4	1459.8	1458.1
30°	1452.5	1435.2	1442.1	1424.4	1421.5
32.5°	1413.5	1397.3	1403.2	1385.4	1383.7
35°	1353.6	1337.7	1341.8	1324.0	1322.6
37.5°	1285.4	1270.9	1273.3	1253.8	1252.3
40°	1237.0	1222.5	1223.7	1203.0	1201.5
42.5°	1183.8	1169.4	1168.2	1147.5	1146.0
45°	1095.3	1080.8	1076.1	1056.8	1053.9
47.5°	994.3	979.9	971.0	955.3	953.3
50°	921.1	906.6	898.9	885.6	881.2
52.5°	842.0	827.5	821.0	808.8	804.5
55°	717.4	705.8	701.1	689.3	686.4
57.5°	599.0	591.2	589.8	578.3	577.2
60°	527.0	522.6	522.5	512.2	512.2
62.5°	465.6	462.4	464.7	457.9	456.7
65°	385.3	382.4	386.7	383.8	383.8
67.5°	321.8	321.8	324.4	323.3	323.3
70°	286.4	286.4	287.8	287.8	287.8
72.5°	254.5	253.3	257.1	257.1	256.0
75°	208.1	208.1	208.1	209.6	209.6
77.5°	162.1	162.4	163.6	163.2	162.1
80°	131.4	132.8	132.8	131.4	131.4
82.5°	100.7	102.1	102.1	101.8	100.7
85°	53.1	56.0	59.0	59.0	59.0
87.5°	16.0	21.8	27.5	27.8	26.4
90°	3.0	8.9	19.6	21.1	19.6
92.5°	42.8	156.1	308.1	133.7	96.9
95°	101.1	354.8	1083.2	560.6	333.4
97.5°	162.3	406.9	1688.4	1397.3	1026.2
100°	208.2	428.0	1876.7	1957.2	1582.5
102.5°	250.4	457.2	1943.1	2381.7	2101.5
105°	327.4	505.9	1953.6	2881.8	2763.8
107.5°	398.6	561.4	1868.3	3193.7	3232.9
110°	454.1	601.6	1792.2	3277.5	3444.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.5	3540.7
117.5°	647.5	767.9	1553.0	2946.8	3404.9
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.6	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.6
130°	870.5	987.0	1436.2	2199.8	2542.0
132.5°	900.6	1016.0	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.8	2252.3
137.5°	991.5	1097.4	1414.5	1893.3	2107.2
140°	1022.8	1121.7	1412.1	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.8	1182.4	1401.5	1703.1	1833.0
147.5°	1142.3	1215.5	1394.9	1637.9	1737.6
150°	1173.7	1238.6	1392.4	1602.4	1682.1
152.5°	1202.7	1259.3	1391.2	1569.5	1635.0
155°	1241.6	1290.3	1389.4	1527.8	1578.0
157.5°	1282.0	1315.9	1389.7	1498.8	1531.8
160°	1304.9	1333.0	1390.9	1480.5	1504.1
162.5°	1323.0	1346.3	1392.1	1465.9	1483.6
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.3	1380.5	1395.8	1436.3	1439.8
170°	1383.4	1387.8	1397.0	1430.2	1430.2
172.5°	1393.0	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.1
177.5°	1406.3	1402.8	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)