

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: P519553

Luminaire Tested: **SQ4-WB-150U-050D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519553
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

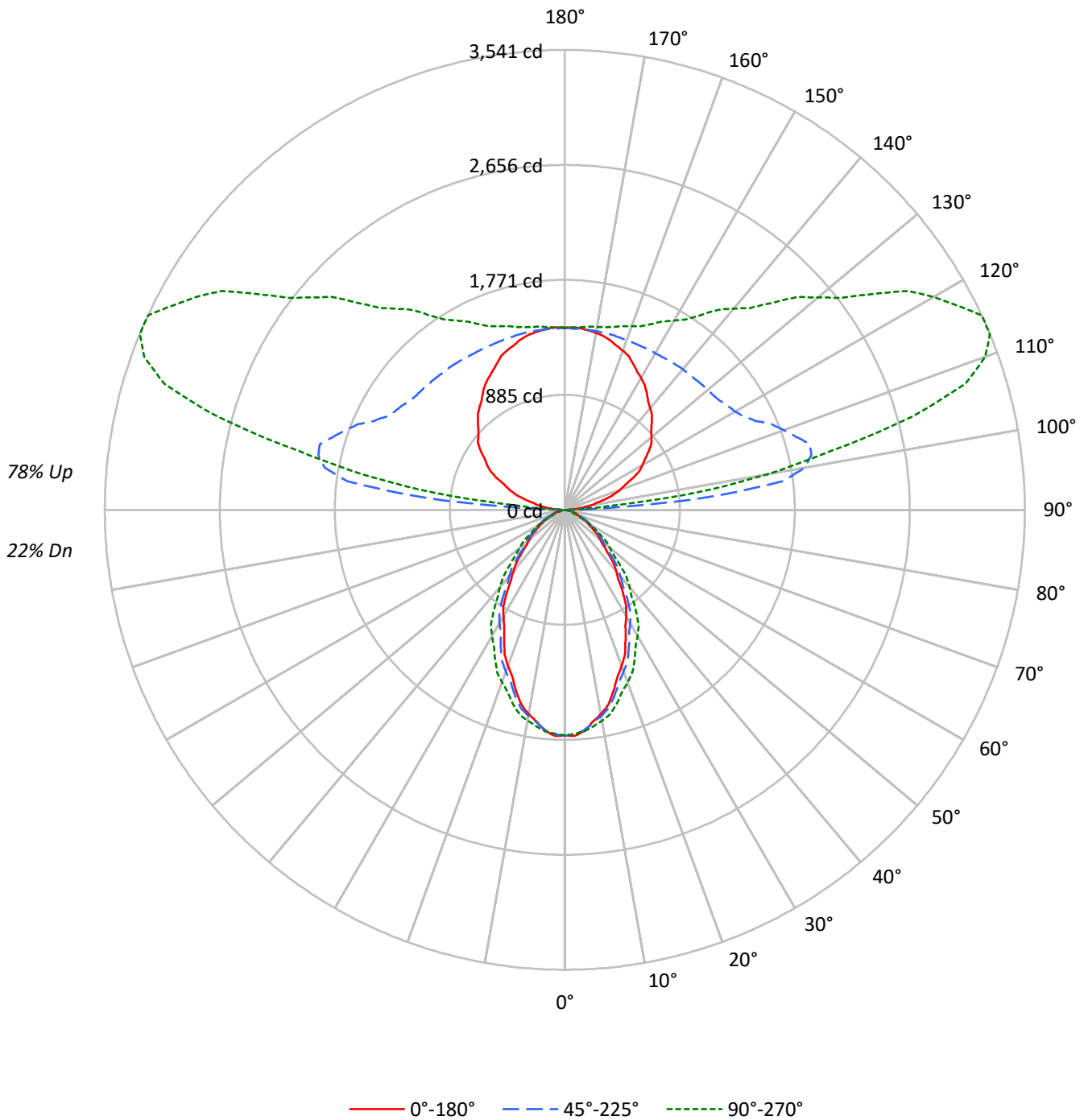
Lumens per Lamp: N/A
Luminaire Lumens: 11571.3 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9250
25°	7499	7908	8617
30°	6705	7144	7962
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4424	5194
50°	3401	3707	4327
55°	2887	3181	3573
60°	2468	2758	2852
65°	1965	2320	1843
70°	1741	1811	1124
75°	1614	1469	689
80°	1484	1350	595
85°	1348	1235	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	1.4
10°-20°	414.6	3.6
20°-30°	537.1	4.6
30°-40°	525.9	4.5
40°-50°	402.6	3.5
50°-60°	268.3	2.3
60°-70°	146.4	1.3
70°-80°	61.0	0.5
80°-90°	20.2	0.2
90°-100°	651.3	5.6
100°-110°	1761.1	15.2
110°-120°	1851.5	16.0
120°-130°	1503.9	13.0
130°-140°	1179.7	10.2
140°-150°	905.4	7.8
150°-160°	651.2	5.6
160°-170°	397.8	3.4
170°-180°	134.1	1.2
0°-30°	1111.1	9.6
0°-40°	1637.0	14.1
0°-60°	2307.8	19.9
0°-90°	2535.4	21.9
90°-120°	4263.9	36.8
90°-150°	7852.9	67.9
90°-180°	9036.0	78.1
0°-180°	11571.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1710	1692	1704	1708	1714	159
15°	1446	1441	1479	1520	1546	404
25°	1105	1108	1165	1216	1270	508
35°	781	785	837	894	957	485
45°	468	477	509	547	597	365
55°	269	280	297	308	333	244
65°	135	146	159	139	127	140
75°	68	68	62	42	29	72
85°	19	19	18	11	7	21
90°	3	9	20	21	20	8
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°	1737.9	1737.9	1737.9	1737.9	1737.9
2.5°	1742.2	1726.7	1730.6	1730.5	1725.7
5°	1709.7	1692.5	1703.6	1707.5	1713.5
7.5°	1646.2	1633.3	1653.4	1668.3	1680.4
10°	1596.8	1585.6	1611.3	1633.0	1648.7
12.5°	1539.5	1530.1	1561.9	1591.0	1611.5
15°	1445.8	1440.6	1479.4	1519.6	1545.7
17.5°	1345.6	1343.1	1387.6	1434.6	1468.0
20°	1277.3	1276.6	1325.4	1374.3	1413.1
22.5°	1208.4	1210.0	1261.3	1312.2	1356.3
25°	1105.0	1108.0	1165.2	1216.0	1269.7
27.5°	1009.3	1010.7	1069.9	1123.5	1180.8
30°	944.1	947.8	1005.8	1061.3	1121.0
32.5°	878.8	883.1	940.0	997.3	1058.2
35°	780.9	784.6	837.3	893.7	957.0
37.5°	679.9	685.0	731.8	785.0	847.4
40°	614.6	622.1	663.4	713.6	774.8
42.5°	551.8	561.0	599.4	647.0	702.2
45°	468.2	477.2	508.6	547.1	597.1
47.5°	396.2	406.5	430.7	463.9	506.5
50°	355.4	365.1	387.4	411.9	452.2
52.5°	319.4	329.1	349.0	367.9	402.2
55°	269.2	280.4	296.6	307.9	333.2
57.5°	228.0	238.7	251.7	256.7	272.1
60°	200.6	212.5	224.2	223.6	231.8
62.5°	175.5	185.7	197.4	189.3	189.7
65°	135.0	146.2	159.4	139.3	126.6
67.5°	109.0	111.4	125.1	97.1	82.1
70°	96.8	96.8	100.7	75.2	62.5
72.5°	85.3	85.3	81.7	61.2	47.9
75°	67.9	67.9	61.8	42.4	29.0
77.5°	52.3	51.7	47.3	31.6	21.0
80°	41.9	41.9	38.1	25.0	16.8
82.5°	32.8	32.8	29.6	19.5	12.5
85°	19.1	19.1	17.5	11.3	6.9
87.5°	7.3	8.5	10.0	7.9	7.0
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)