

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: P519562

Luminaire Tested: **SQ4-WB-150U-050D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519562
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

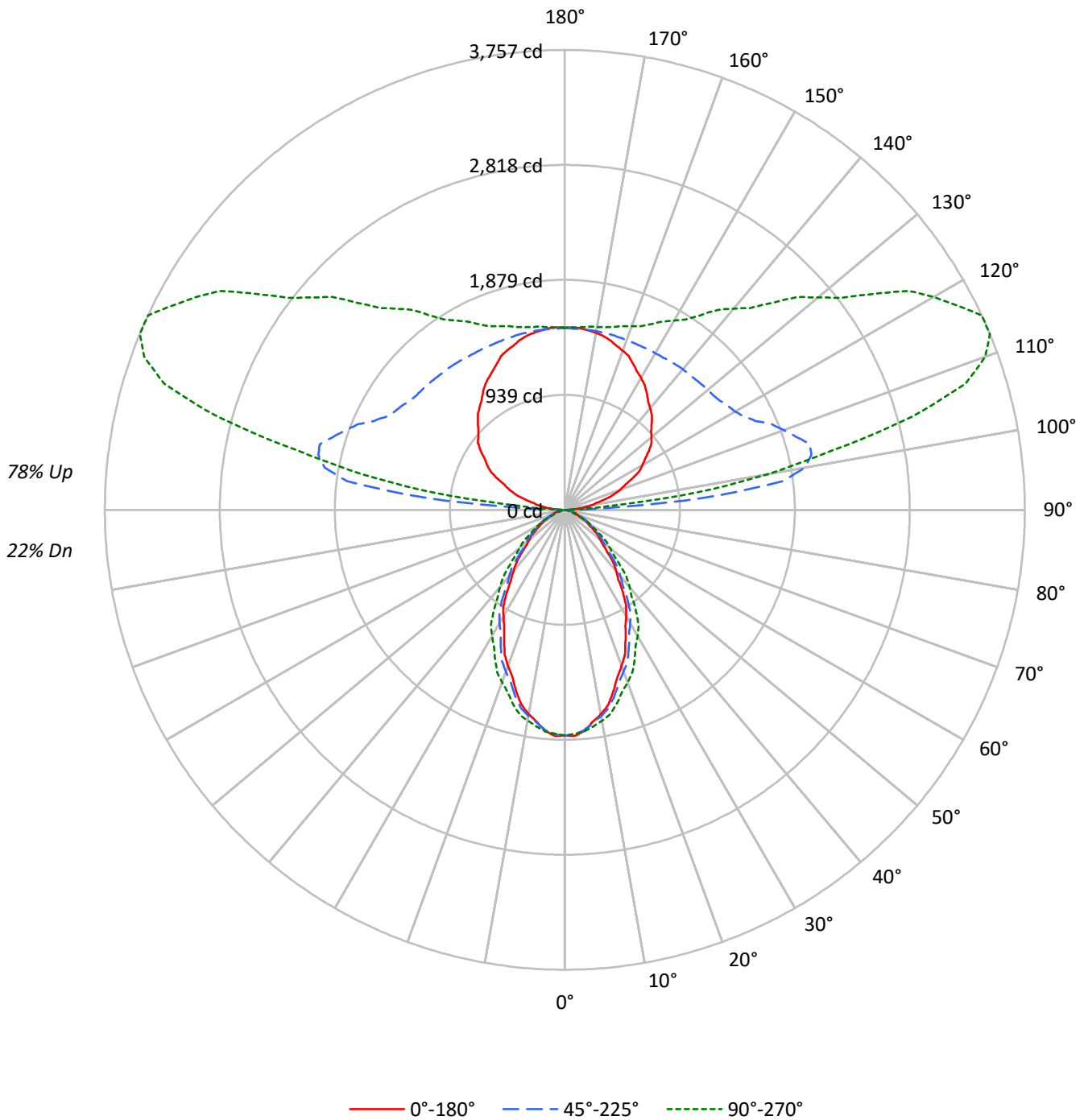
Lumens per Lamp: N/A
Luminaire Lumens: 12277.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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°	8506	8506	8506
5°	8400	8370	8419
10°	7937	8008	8194
15°	7326	7497	7832
20°	6653	6903	7360
25°	5968	6293	6857
30°	5336	5685	6336
35°	4666	5003	5718
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2531	2844
60°	1963	2195	2270
65°	1563	1846	1466
70°	1387	1440	894
75°	1283	1167	547
80°	1182	1076	473
85°	1069	984	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	1.4
10°-20°	439.9	3.6
20°-30°	569.8	4.6
30°-40°	558.0	4.5
40°-50°	427.1	3.5
50°-60°	284.6	2.3
60°-70°	155.3	1.3
70°-80°	64.7	0.5
80°-90°	21.4	0.2
90°-100°	691.1	5.6
100°-110°	1868.5	15.2
110°-120°	1964.4	16.0
120°-130°	1595.6	13.0
130°-140°	1251.7	10.2
140°-150°	960.7	7.8
150°-160°	690.9	5.6
160°-170°	422.1	3.4
170°-180°	142.3	1.2
0°-30°	1178.9	9.6
0°-40°	1736.9	14.1
0°-60°	2448.6	19.9
0°-90°	2690.1	21.9
90°-120°	4524.0	36.8
90°-150°	8331.9	67.9
90°-180°	9587.0	78.1
0°-180°	12277.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1814	1796	1808	1812	1818	169
15°	1534	1528	1570	1612	1640	428
25°	1172	1176	1236	1290	1347	539
35°	828	832	888	948	1015	515
45°	497	506	540	580	634	387
55°	286	298	315	327	354	259
65°	143	155	169	148	134	149
75°	72	72	66	45	31	77
85°	20	20	19	12	7	22
90°	3	10	21	22	21	8
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

TEST NUMBER: P519562

CATALOG NUMBER: SQ4-WB-150U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1848.5	1832.0	1836.2	1836.1	1831.0
5°	1814.0	1795.8	1807.5	1811.7	1818.0
7.5°	1746.7	1732.9	1754.3	1770.1	1782.9
10°	1694.3	1682.4	1709.6	1732.7	1749.3
12.5°	1633.4	1623.4	1657.2	1688.1	1709.8
15°	1534.0	1528.5	1569.7	1612.4	1640.0
17.5°	1427.7	1425.0	1472.2	1522.1	1557.5
20°	1355.2	1354.4	1406.2	1458.1	1499.3
22.5°	1282.1	1283.8	1338.2	1392.2	1439.1
25°	1172.4	1175.5	1236.3	1290.2	1347.1
27.5°	1070.9	1072.3	1135.2	1192.0	1252.8
30°	1001.7	1005.6	1067.2	1126.1	1189.4
32.5°	932.4	937.0	997.3	1058.1	1122.7
35°	828.5	832.5	888.4	948.2	1015.4
37.5°	721.4	726.8	776.4	832.9	899.1
40°	652.1	660.0	703.9	757.2	822.0
42.5°	585.5	595.3	636.0	686.5	745.0
45°	496.8	506.3	539.7	580.5	633.5
47.5°	420.4	431.3	457.0	492.2	537.4
50°	377.0	387.3	411.0	437.1	479.8
52.5°	338.9	349.1	370.2	390.3	426.7
55°	285.6	297.5	314.7	326.7	353.6
57.5°	241.9	253.3	267.0	272.4	288.7
60°	212.8	225.5	237.9	237.3	246.0
62.5°	186.3	197.0	209.4	200.8	201.3
65°	143.2	155.1	169.1	147.8	134.3
67.5°	115.7	118.2	132.7	103.0	87.1
70°	102.8	102.8	106.8	79.8	66.3
72.5°	90.5	90.5	86.7	64.9	50.8
75°	72.0	72.0	65.5	45.0	30.7
77.5°	55.5	54.9	50.2	33.6	22.3
80°	44.5	44.5	40.5	26.5	17.8
82.5°	34.8	34.8	31.4	20.7	13.3
85°	20.2	20.2	18.6	12.0	7.3
87.5°	7.8	9.0	10.6	8.3	7.4
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3

TEST NUMBER: P519562

CATALOG NUMBER: SQ4-WB-150U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)