

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: P519577

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519577
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-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

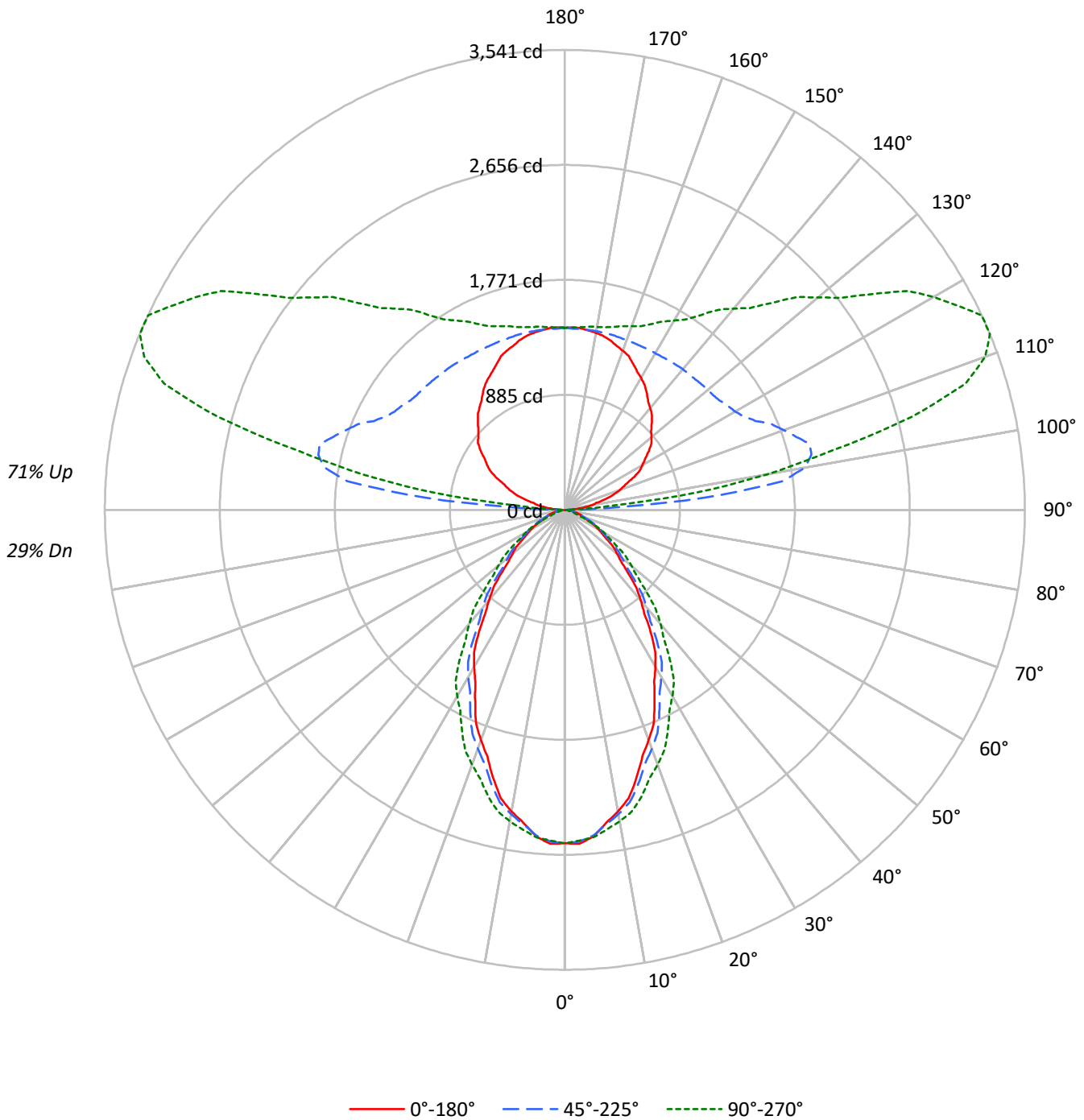
Lumens per Lamp: N/A
Luminaire Lumens: 12779.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9903	10551	11759
35°	8660	9285	10613
40°	7288	7867	9187
45°	6015	6534	7670
50°	5022	5474	6391
55°	4264	4698	5278
60°	3644	4073	4212
65°	2901	3426	2722
70°	2572	2674	1662
75°	2381	2167	1017
80°	2193	1994	878
85°	1990	1828	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	1.8
10°-20°	612.3	4.8
20°-30°	793.2	6.2
30°-40°	776.7	6.1
40°-50°	594.5	4.7
50°-60°	396.2	3.1
60°-70°	216.2	1.7
70°-80°	90.1	0.7
80°-90°	28.4	0.2
90°-100°	651.3	5.1
100°-110°	1761.1	13.8
110°-120°	1851.5	14.5
120°-130°	1503.9	11.8
130°-140°	1179.7	9.2
140°-150°	905.4	7.1
150°-160°	651.2	5.1
160°-170°	397.8	3.1
170°-180°	134.1	1.0
0°-30°	1640.9	12.8
0°-40°	2417.7	18.9
0°-60°	3408.4	26.7
0°-90°	3743.0	29.3
90°-120°	4263.9	33.4
90°-150°	7852.9	61.5
90°-180°	9036.0	70.7
0°-180°	12779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2525	2500	2516	2522	2531	235
15°	2135	2128	2185	2244	2283	596
25°	1632	1636	1721	1796	1875	750
35°	1153	1159	1237	1320	1413	717
45°	692	705	751	808	882	539
55°	398	414	438	455	492	360
65°	199	216	235	206	187	207
75°	100	100	91	63	43	107
85°	28	28	26	17	10	31
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	

TEST NUMBER: P519577

CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566.7	2566.7	2566.7	2566.7	2566.7
2.5°	2573.0	2550.1	2555.9	2555.7	2548.7
5°	2525.0	2499.7	2516.0	2521.8	2530.6
7.5°	2431.3	2412.1	2441.9	2463.9	2481.8
10°	2358.3	2341.8	2379.7	2411.8	2434.9
12.5°	2273.6	2259.8	2306.7	2349.8	2379.9
15°	2135.3	2127.6	2184.9	2244.3	2282.9
17.5°	1987.3	1983.6	2049.3	2118.7	2168.0
20°	1886.4	1885.3	1957.4	2029.6	2086.9
22.5°	1784.6	1787.0	1862.8	1937.9	2003.1
25°	1631.9	1636.3	1720.9	1795.9	1875.2
27.5°	1490.7	1492.7	1580.1	1659.3	1743.9
30°	1394.3	1399.8	1485.5	1567.5	1655.6
32.5°	1297.9	1304.3	1388.2	1472.9	1562.8
35°	1153.3	1158.8	1236.6	1319.8	1413.4
37.5°	1004.1	1011.6	1080.7	1159.4	1251.5
40°	907.7	918.8	979.8	1053.9	1144.2
42.5°	814.9	828.6	885.2	955.5	1037.0
45°	691.5	704.7	751.2	808.1	881.8
47.5°	585.2	600.4	636.1	685.1	748.0
50°	524.8	539.1	572.1	608.4	667.9
52.5°	471.7	486.0	515.4	543.3	594.0
55°	397.6	414.1	438.1	454.7	492.2
57.5°	336.7	352.6	371.7	379.2	401.8
60°	296.2	313.8	331.1	330.3	342.4
62.5°	259.3	274.2	291.5	279.5	280.2
65°	199.3	215.9	235.4	205.7	187.0
67.5°	161.1	164.6	184.7	143.4	121.2
70°	143.0	143.0	148.7	111.1	92.4
72.5°	125.9	125.9	120.7	90.3	70.7
75°	100.2	100.2	91.2	62.6	42.8
77.5°	77.3	76.4	69.8	46.7	31.1
80°	61.9	61.9	56.3	36.9	24.8
82.5°	48.4	48.4	43.7	28.8	18.5
85°	28.2	28.2	25.9	16.7	10.1
87.5°	10.5	11.7	12.9	9.6	8.4
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

TEST NUMBER: P519577

CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-6

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)