

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: P565103

Luminaire Tested: **SQ4-PW1-150U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565103
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

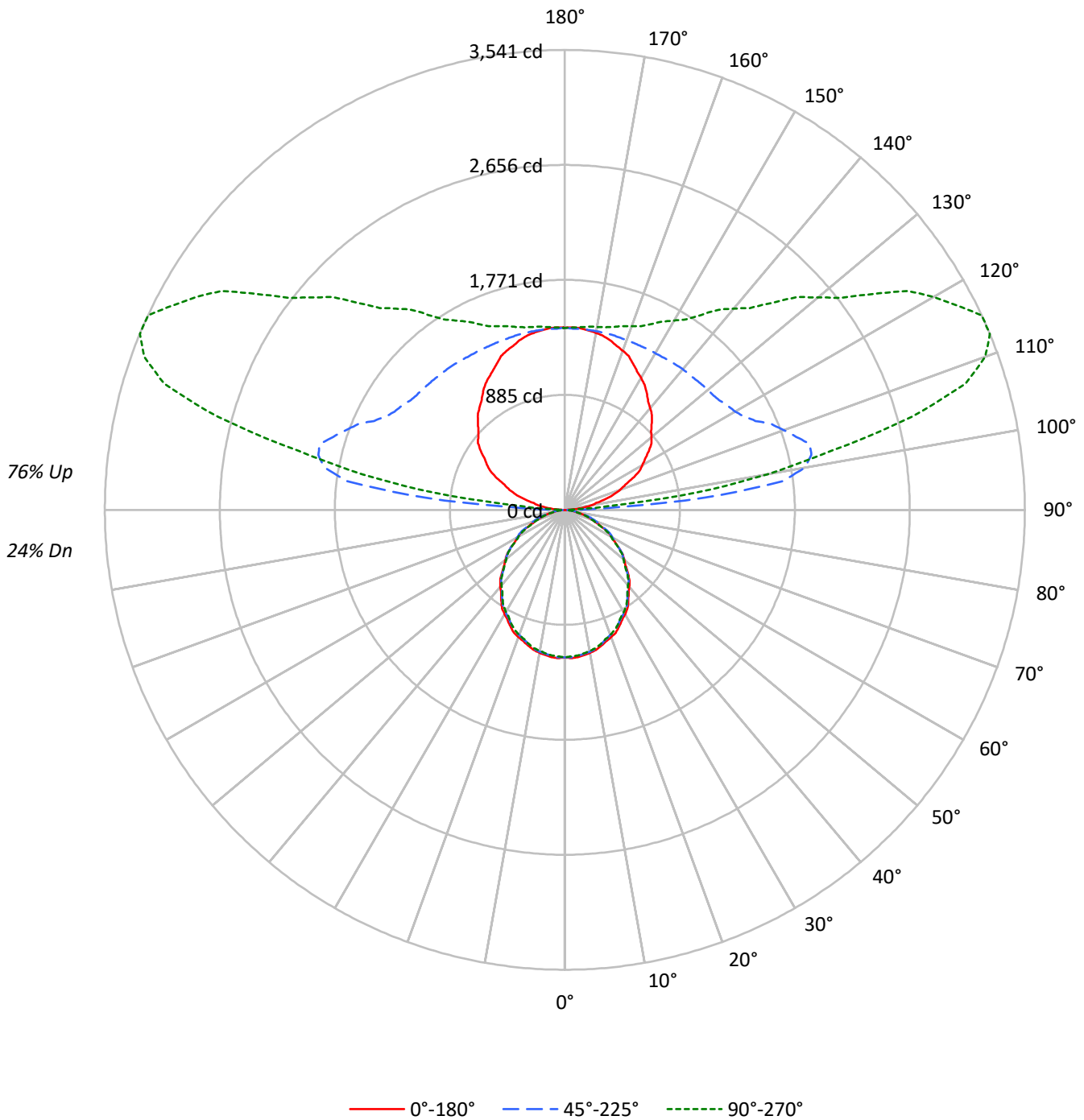
Lumens per Lamp: N/A
Luminaire Lumens: 11930.9 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6981	6925	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6607	6586
30°	6587	6487	6445
35°	6400	6310	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5211	5026
65°	4679	4912	4563
70°	4124	4521	4016
75°	3522	4047	3427
80°	2731	3404	2766
85°	1764	2618	2329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	0.9
10°-20°	302.2	2.5
20°-30°	448.3	3.8
30°-40°	524.5	4.4
40°-50°	522.2	4.4
50°-60°	450.9	3.8
60°-70°	324.6	2.7
70°-80°	170.2	1.4
80°-90°	45.1	0.4
90°-100°	651.3	5.5
100°-110°	1761.1	14.8
110°-120°	1851.5	15.5
120°-130°	1503.9	12.6
130°-140°	1179.7	9.9
140°-150°	905.4	7.6
150°-160°	651.2	5.5
160°-170°	397.8	3.3
170°-180°	134.1	1.1
0°-30°	857.5	7.2
0°-40°	1382.0	11.6
0°-60°	2355.1	19.7
0°-90°	2895.0	24.3
90°-120°	4263.9	35.7
90°-150°	7852.9	65.8
90°-180°	9036.0	75.7
0°-180°	11930.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1140	1127	1131	1128	1126	108
15°	1085	1071	1073	1071	1069	306
25°	992	975	974	968	970	456
35°	852	840	840	832	835	533
45°	685	679	676	674	673	529
55°	508	507	508	501	500	453
65°	322	331	338	324	314	319
75°	148	162	170	159	144	159
85°	25	33	37	35	33	33
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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CATALOG NUMBER: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1136.7	1136.7	1136.7	1136.7	1136.7
2.5°	1143.1	1133.7	1136.7	1134.2	1128.7
5°	1139.7	1127.0	1130.7	1127.6	1125.7
7.5°	1128.1	1116.3	1119.1	1115.8	1114.7
10°	1117.7	1105.9	1108.7	1104.6	1102.7
12.5°	1105.7	1093.1	1095.8	1091.8	1090.6
15°	1084.6	1070.9	1072.6	1070.6	1068.6
17.5°	1060.2	1046.3	1046.6	1043.4	1043.0
20°	1042.6	1027.9	1026.5	1022.6	1024.5
22.5°	1023.3	1007.9	1006.5	1001.0	1003.7
25°	991.5	974.8	973.5	967.5	970.5
27.5°	954.6	938.2	938.2	929.9	933.0
30°	927.4	911.7	913.4	903.4	907.4
32.5°	898.5	884.4	885.3	875.4	879.3
35°	852.3	840.5	840.3	832.3	835.3
37.5°	805.0	794.6	793.0	788.4	789.2
40°	772.2	763.3	760.1	757.1	757.1
42.5°	737.7	729.7	726.5	724.3	723.5
45°	685.0	679.2	676.0	674.0	673.0
47.5°	632.9	627.5	624.7	623.3	622.3
50°	596.9	593.0	591.9	588.9	587.9
52.5°	560.8	558.5	557.4	553.6	552.6
55°	507.8	506.8	507.8	500.7	499.7
57.5°	452.5	454.0	457.3	447.8	445.5
60°	415.6	419.5	423.6	412.5	408.6
62.5°	378.0	384.2	390.0	377.2	371.8
65°	321.5	331.3	337.5	324.2	313.5
67.5°	267.0	279.1	286.6	272.3	260.2
70°	229.3	243.1	251.4	237.0	223.3
72.5°	196.5	211.8	218.5	205.0	191.3
75°	148.2	161.9	170.3	158.9	144.2
77.5°	105.2	118.1	125.0	115.1	103.0
80°	77.1	90.8	96.1	87.9	78.1
82.5°	54.7	66.0	69.7	64.7	58.1
85°	25.0	32.9	37.1	35.0	33.0
87.5°	7.0	13.7	19.1	19.5	19.9
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: P565103

CATALOG NUMBER: SQ4-PW1-150U-050D-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)