

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: P561753

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561753
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10610.5 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

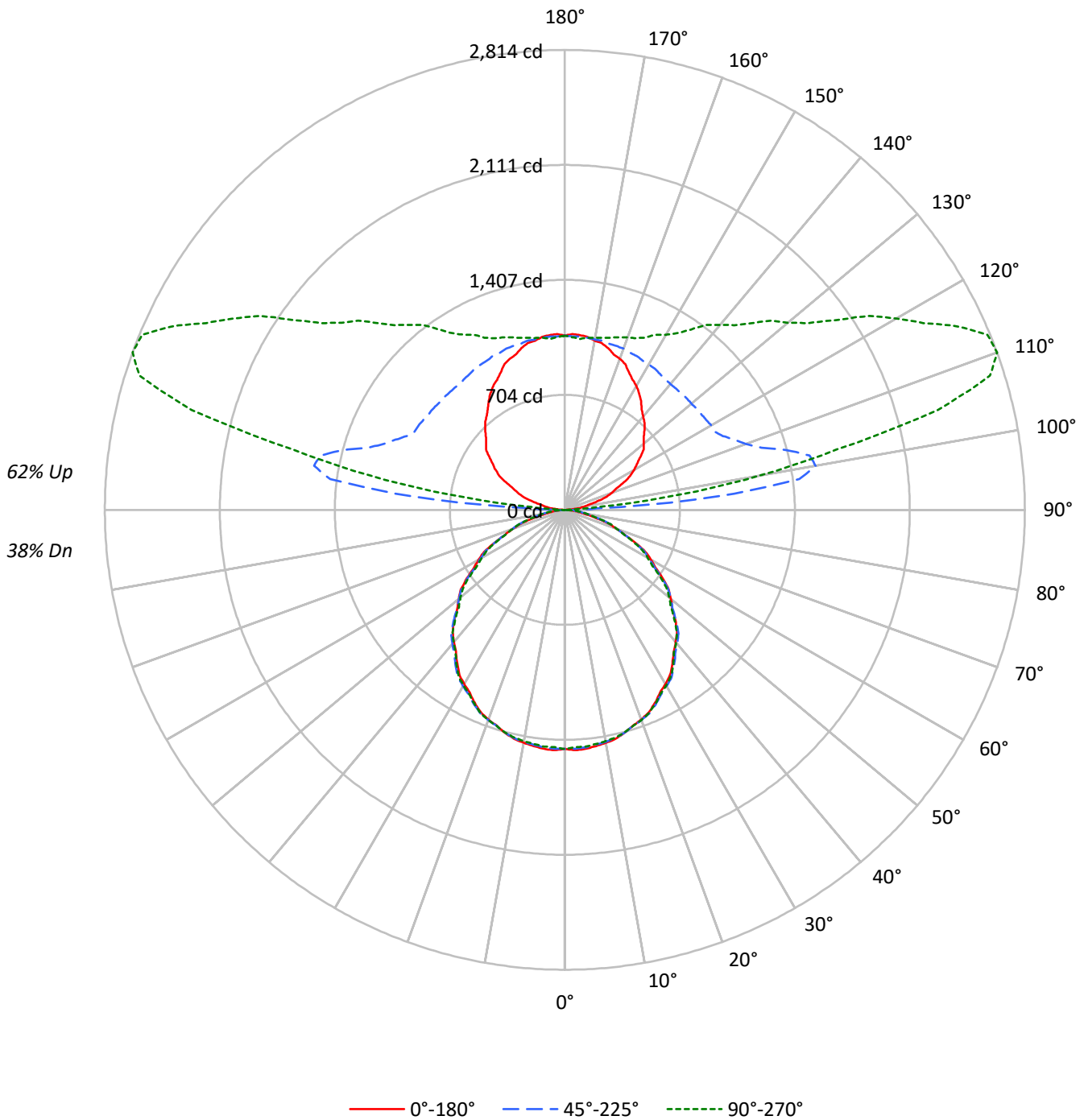
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P561753

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561753

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13495	13495	13495
5°	13597	13509	13459
10°	13564	13500	13463
15°	13493	13493	13479
20°	13404	13444	13444
25°	13277	13373	13333
30°	13116	13274	13217
35°	12920	13118	13027
40°	12706	12886	12756
45°	12476	12564	12369
50°	12150	12150	11955
55°	11765	11612	11437
60°	11197	10972	10797
65°	10348	10141	10053
70°	9061	9134	9096
75°	7290	8063	8110
80°	5180	6838	6907
85°	3155	5738	5738



TEST NUMBER: P561753

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.3
10°-20°	397.3	3.7
20°-30°	601.6	5.7
30°-40°	721.2	6.8
40°-50°	735.4	6.9
50°-60°	642.0	6.1
60°-70°	459.6	4.3
70°-80°	236.7	2.2
80°-90°	59.9	0.6
90°-100°	485.5	4.6
100°-110°	1381.5	13.0
110°-120°	1323.6	12.5
120°-130°	1047.6	9.9
130°-140°	840.8	7.9
140°-150°	658.3	6.2
150°-160°	481.7	4.5
160°-170°	298.3	2.8
170°-180°	101.2	1.0
0°-30°	1137.3	10.7
0°-40°	1858.5	17.5
0°-60°	3235.8	30.5
0°-90°	3992.0	37.6
90°-120°	3190.6	30.1
90°-150°	5737.2	54.1
90°-180°	6618.0	62.4
0°-180°	10610.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1453	139
15°	1413	1401	1413	1413	1411	398
25°	1304	1295	1314	1310	1310	600
35°	1147	1144	1165	1157	1157	717
45°	956	954	963	951	948	736
55°	731	722	722	711	711	652
65°	474	463	464	460	460	469
75°	204	214	226	228	228	221
85°	30	46	54	56	54	40
90°	0	0	0	0	0	3
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	



TEST NUMBER: P561753

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.7	1462.7	1462.7	1462.7	1462.7
2.5°	1471.4	1458.7	1462.7	1459.3	1454.0
5°	1468.1	1453.6	1458.6	1454.5	1453.2
7.5°	1457.6	1443.0	1449.7	1447.0	1445.6
10°	1447.8	1433.2	1441.0	1438.3	1437.0
12.5°	1434.8	1421.3	1430.2	1427.5	1427.2
15°	1412.6	1400.7	1412.6	1412.6	1411.2
17.5°	1384.7	1373.8	1386.6	1387.4	1386.6
20°	1365.2	1353.3	1369.3	1367.9	1369.3
22.5°	1341.4	1331.6	1348.7	1345.2	1346.5
25°	1304.2	1295.0	1313.7	1309.7	1309.7
27.5°	1260.4	1253.7	1274.2	1269.8	1269.8
30°	1231.1	1224.5	1246.0	1240.6	1240.6
32.5°	1198.6	1194.1	1214.6	1208.1	1208.1
35°	1147.1	1144.5	1164.7	1156.6	1156.6
37.5°	1094.0	1091.7	1110.0	1100.2	1097.0
40°	1055.0	1053.7	1069.9	1059.1	1059.1
42.5°	1016.0	1014.7	1028.8	1015.8	1015.8
45°	956.2	953.5	962.9	950.7	948.0
47.5°	890.9	888.2	894.1	880.8	879.5
50°	846.5	843.8	846.5	834.3	832.9
52.5°	801.0	796.2	796.6	784.4	784.2
55°	731.4	722.1	721.9	711.0	711.0
57.5°	657.7	645.5	646.6	637.3	636.0
60°	606.8	593.5	594.6	586.4	585.1
62.5°	556.9	541.5	544.7	535.5	535.2
65°	474.0	463.4	464.5	460.5	460.5
67.5°	394.4	384.6	391.7	388.4	388.2
70°	335.9	329.3	338.6	338.6	337.2
72.5°	281.7	281.4	293.1	293.1	293.9
75°	204.5	213.8	226.2	227.5	227.5
77.5°	136.5	152.9	166.6	167.1	166.9
80°	97.5	116.1	128.7	131.3	130.0
82.5°	66.1	85.7	96.2	98.8	97.5
85°	29.8	45.7	54.2	55.5	54.2
87.5°	8.7	18.2	21.7	21.6	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

TEST NUMBER: P561753

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)