

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: P562117

Luminaire Tested: **SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562117
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 10549.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

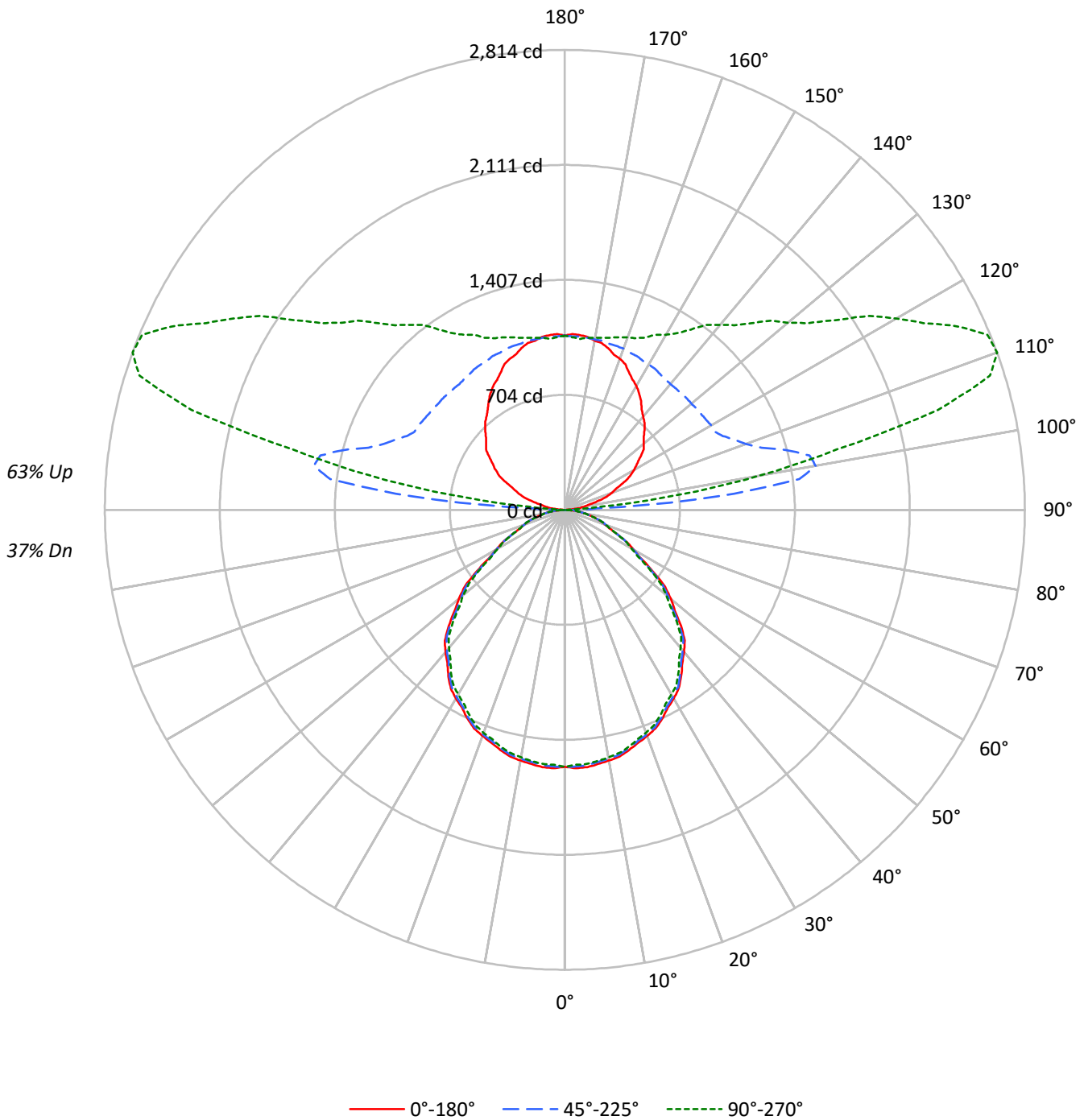
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P562117

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P562117

CATALOG NUMBER: SQ4-PR1-150U-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	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28	23
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	36	33	33	30	27	25	23	21	17
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18	15
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14507	14507	14507
5°	14638	14525	14450
10°	14591	14490	14413
15°	14527	14437	14359
20°	14455	14361	14255
25°	14353	14256	14090
30°	14198	14097	13894
35°	13988	13866	13668
40°	13669	13523	13277
45°	13112	12882	12617
50°	12130	11839	11605
55°	10587	10348	10131
60°	8922	8846	8673
65°	7717	7746	7687
70°	7086	7124	7124
75°	6809	6809	6855
80°	6402	6477	6402
85°	5166	5738	5738



TEST NUMBER: P562117

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.4
10°-20°	425.4	4.0
20°-30°	641.7	6.1
30°-40°	764.6	7.2
40°-50°	753.8	7.1
50°-60°	576.1	5.5
60°-70°	356.5	3.4
70°-80°	202.5	1.9
80°-90°	61.6	0.6
90°-100°	485.5	4.6
100°-110°	1381.5	13.1
110°-120°	1323.6	12.5
120°-130°	1047.6	9.9
130°-140°	840.8	8.0
140°-150°	658.3	6.2
150°-160°	481.7	4.6
160°-170°	298.3	2.8
170°-180°	101.2	1.0
0°-30°	1215.8	11.5
0°-40°	1980.4	18.8
0°-60°	3310.2	31.4
0°-90°	3930.8	37.3
90°-120°	3190.6	30.2
90°-150°	5737.2	54.4
90°-180°	6618.0	62.7
0°-180°	10549.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1580	1563	1568	1563	1560	150
15°	1521	1505	1512	1506	1503	429
25°	1410	1393	1400	1386	1384	649
35°	1242	1227	1231	1215	1214	775
45°	1005	992	987	970	967	770
55°	658	648	643	632	630	590
65°	354	351	355	352	352	358
75°	191	191	191	192	192	202
85°	49	51	54	54	54	57
90°	0	0	0	0	0	4
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: P562117

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1582.2	1568.4	1572.4	1569.0	1561.6
5°	1580.5	1563.3	1568.3	1562.9	1560.2
7.5°	1568.3	1551.4	1556.4	1551.0	1549.4
10°	1557.5	1541.6	1546.7	1541.2	1538.5
12.5°	1545.6	1528.6	1534.7	1528.2	1525.5
15°	1520.9	1505.0	1511.5	1506.0	1503.3
17.5°	1493.8	1476.9	1483.3	1477.0	1473.5
20°	1472.2	1456.3	1462.7	1453.2	1451.9
22.5°	1448.3	1432.5	1438.9	1426.1	1425.9
25°	1409.9	1392.7	1400.4	1385.5	1384.1
27.5°	1364.1	1348.2	1354.6	1339.4	1337.8
30°	1332.7	1316.8	1323.2	1306.9	1304.2
32.5°	1296.9	1282.1	1287.4	1271.2	1269.6
35°	1241.9	1227.4	1231.1	1214.8	1213.5
37.5°	1179.4	1166.1	1168.3	1150.4	1149.0
40°	1134.9	1121.7	1122.8	1103.8	1102.4
42.5°	1086.2	1072.9	1071.8	1052.8	1051.5
45°	1004.9	991.7	987.3	969.7	967.0
47.5°	912.3	899.0	890.9	876.5	874.6
50°	845.1	831.9	824.8	812.5	808.5
52.5°	772.5	759.3	753.3	742.1	738.1
55°	658.2	647.6	643.3	632.4	629.8
57.5°	549.6	542.4	541.2	530.6	529.6
60°	483.5	479.5	479.4	470.0	470.0
62.5°	427.2	424.2	426.3	420.1	419.0
65°	353.5	350.8	354.8	352.1	352.1
67.5°	295.2	295.2	297.7	296.6	296.6
70°	262.7	262.7	264.1	264.1	264.1
72.5°	233.5	232.4	235.9	235.9	234.8
75°	191.0	191.0	191.0	192.3	192.3
77.5°	148.7	149.0	150.1	149.8	148.7
80°	120.5	121.9	121.9	120.5	120.5
82.5°	92.4	93.7	93.7	93.4	92.4
85°	48.8	51.4	54.2	54.2	54.2
87.5°	14.1	18.3	21.7	21.6	20.6
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: P562117

CATALOG NUMBER: SQ4-PR1-150U-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)