

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: P562484

Luminaire Tested: **SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11015.6 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

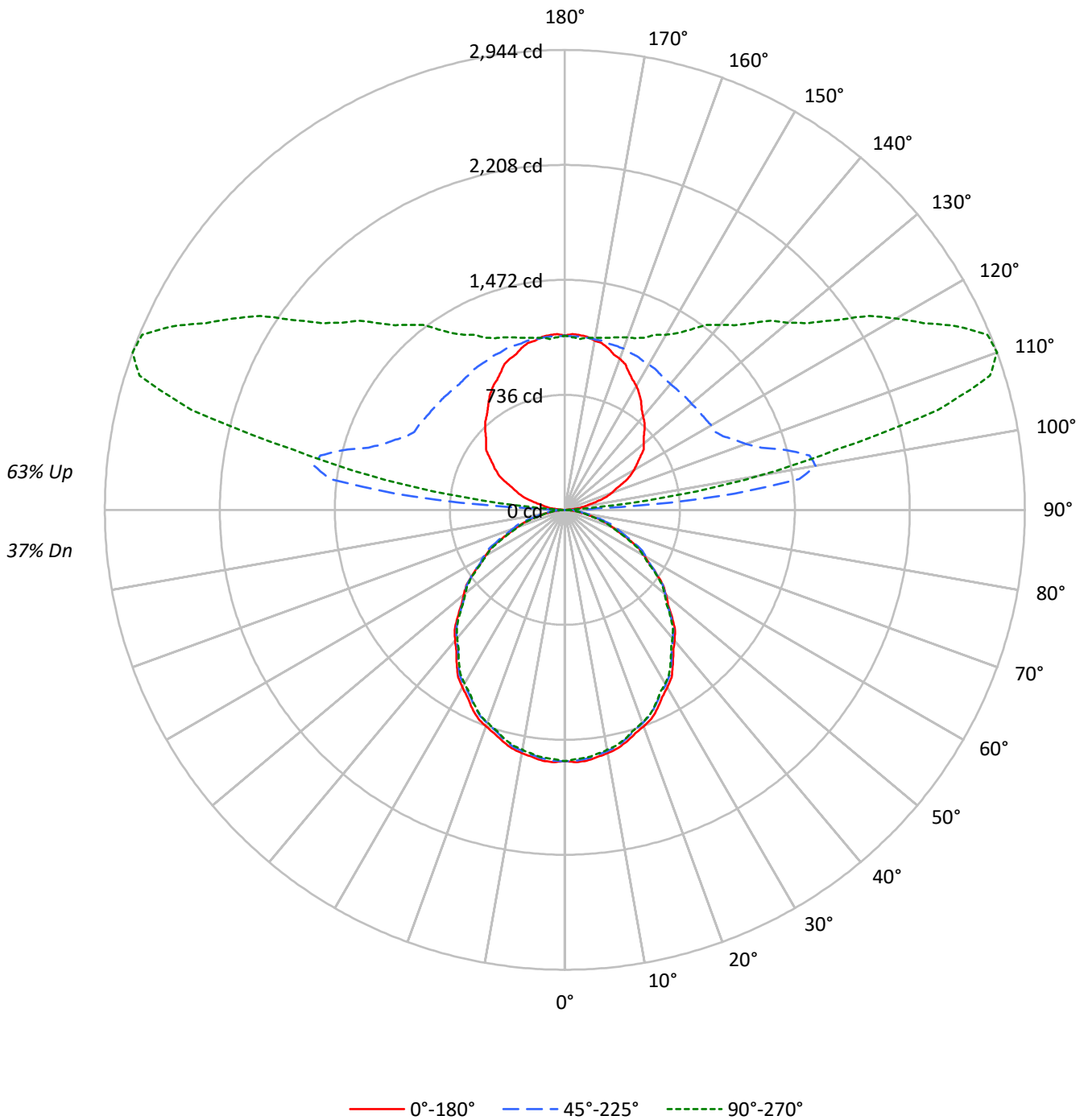
Input Watts (W): 93.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P562484

CATALOG NUMBER: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562484

CATALOG NUMBER: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)

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	82	79	76	67	65	63	52	51	50	39	38	38	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	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	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14838	14838	14838
5°	14933	14816	14750
10°	14814	14695	14615
15°	14657	14495	14440
20°	14482	14259	14232
25°	14279	14020	13977
30°	13977	13766	13676
35°	13581	13390	13310
40°	13157	12952	12901
45°	12645	12479	12423
50°	12121	12020	11938
55°	11556	11556	11372
60°	10850	11059	10667
65°	9929	10424	9682
70°	8754	9593	8524
75°	7475	8587	7272
80°	5797	7226	5871
85°	3747	5547	4954



TEST NUMBER: P562484

CATALOG NUMBER: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.4
10°-20°	427.5	3.9
20°-30°	634.2	5.8
30°-40°	742.1	6.7
40°-50°	738.7	6.7
50°-60°	637.9	5.8
60°-70°	459.2	4.2
70°-80°	240.8	2.2
80°-90°	59.7	0.5
90°-100°	507.9	4.6
100°-110°	1445.2	13.1
110°-120°	1384.7	12.6
120°-130°	1095.9	9.9
130°-140°	879.7	8.0
140°-150°	688.7	6.3
150°-160°	503.9	4.6
160°-170°	312.1	2.8
170°-180°	105.9	1.0
0°-30°	1213.2	11.0
0°-40°	1955.2	17.7
0°-60°	3331.9	30.2
0°-90°	4091.6	37.1
90°-120°	3337.9	30.3
90°-150°	6002.1	54.5
90°-180°	6924.0	62.9
0°-180°	11015.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1612	1594	1600	1595	1593	153
15°	1534	1515	1518	1515	1512	433
25°	1403	1379	1377	1369	1373	645
35°	1206	1189	1189	1178	1182	754
45°	969	961	956	954	952	748
55°	718	717	718	708	707	641
65°	455	469	478	459	444	451
75°	210	229	241	225	204	225
85°	35	46	52	50	47	47
90°	0	0	0	0	0	4
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

TEST NUMBER: P562484

CATALOG NUMBER: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.2	1608.2	1608.2	1608.2	1608.2
2.5°	1617.2	1603.9	1608.2	1604.6	1596.8
5°	1612.4	1594.4	1599.7	1595.3	1592.6
7.5°	1596.0	1579.4	1583.2	1578.7	1577.0
10°	1581.2	1564.6	1568.5	1562.8	1560.0
12.5°	1564.2	1546.5	1550.4	1544.6	1543.0
15°	1534.5	1515.1	1517.5	1514.6	1511.8
17.5°	1499.9	1480.2	1480.6	1476.1	1475.5
20°	1475.0	1454.2	1452.3	1446.7	1449.5
22.5°	1447.8	1425.9	1424.0	1416.1	1420.0
25°	1402.7	1379.2	1377.2	1368.8	1373.0
27.5°	1350.6	1327.3	1327.3	1315.5	1320.0
30°	1312.0	1289.9	1292.2	1278.2	1283.7
32.5°	1271.2	1251.3	1252.5	1238.5	1244.0
35°	1205.8	1189.1	1188.8	1177.5	1181.7
37.5°	1138.9	1124.2	1121.9	1115.4	1116.5
40°	1092.4	1079.9	1075.4	1071.2	1071.2
42.5°	1043.7	1032.3	1027.8	1024.7	1023.6
45°	969.1	960.8	956.4	953.5	952.1
47.5°	895.5	887.7	883.9	881.8	880.5
50°	844.5	838.9	837.4	833.1	831.7
52.5°	793.5	790.1	788.6	783.2	781.8
55°	718.4	717.0	718.4	708.4	707.0
57.5°	640.1	642.4	646.9	633.6	630.2
60°	588.0	593.5	599.3	583.6	578.1
62.5°	534.7	543.6	551.7	533.7	525.9
65°	454.8	468.7	477.5	458.7	443.5
67.5°	377.7	394.9	405.5	385.3	368.1
70°	324.5	343.9	355.6	335.4	316.0
72.5°	278.0	299.6	309.2	290.0	270.6
75°	209.7	229.1	240.9	224.8	204.0
77.5°	148.8	167.1	176.8	162.8	145.7
80°	109.1	128.5	136.0	124.4	110.5
82.5°	77.4	93.4	98.6	91.6	82.2
85°	35.4	46.5	52.4	49.5	46.8
87.5°	9.1	16.8	21.5	21.6	22.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

TEST NUMBER: P562484

CATALOG NUMBER: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)