

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: P562118

Luminaire Tested: **SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562118
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10742.3 lumens
Efficiency: N/A
Efficacy: 114.8 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

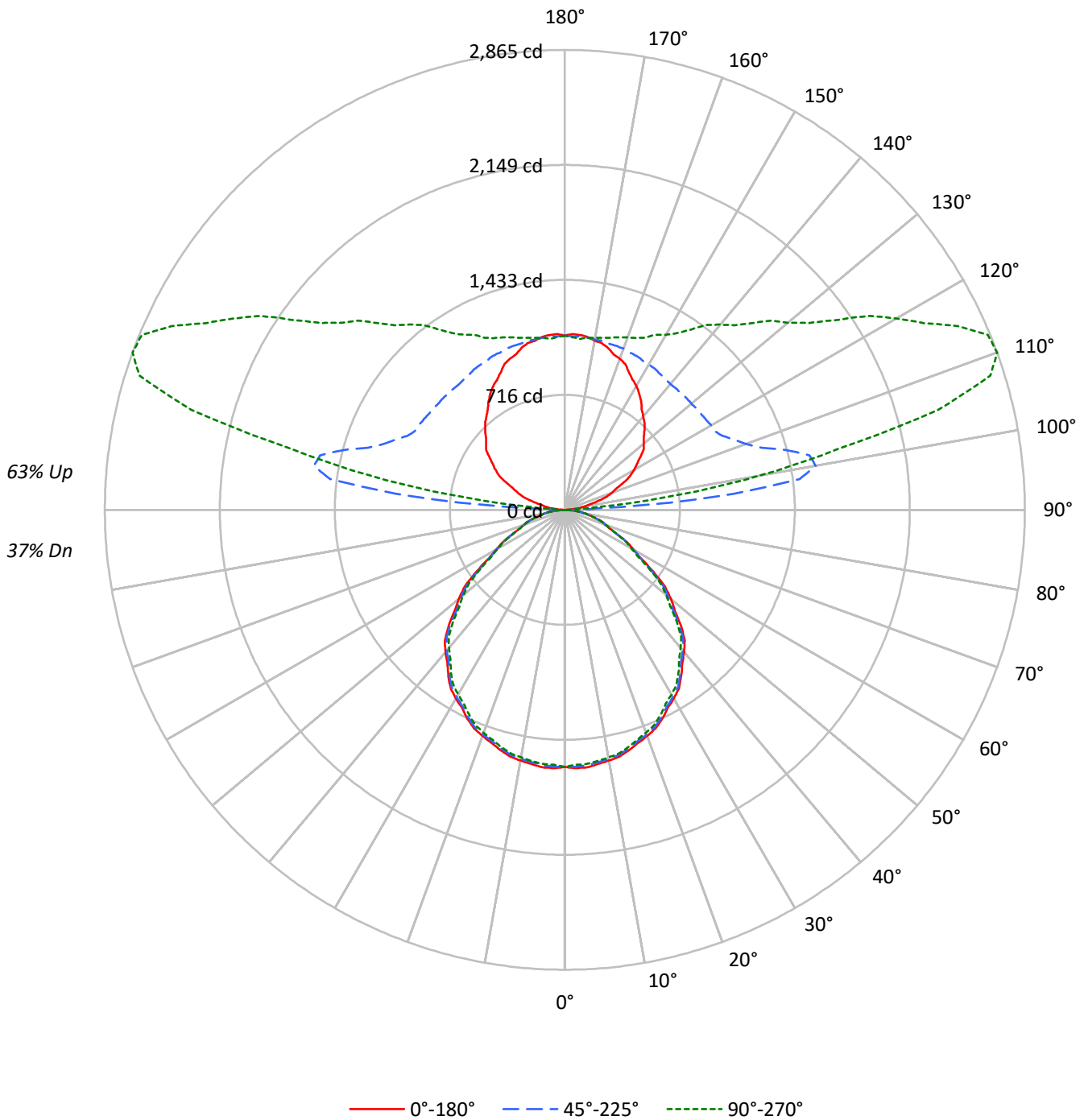
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P562118

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562118

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4000K)

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	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°	14773	14773	14773
5°	14905	14791	14715
10°	14858	14755	14678
15°	14794	14701	14622
20°	14719	14624	14515
25°	14615	14517	14349
30°	14458	14355	14149
35°	14244	14119	13918
40°	13919	13770	13521
45°	13352	13118	12848
50°	12353	12055	11817
55°	10782	10538	10316
60°	9084	9008	8831
65°	7859	7888	7829
70°	7219	7254	7254
75°	6933	6933	6980
80°	6519	6594	6519
85°	5251	5843	5843



TEST NUMBER: P562118

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.4
10°-20°	433.2	4.0
20°-30°	653.4	6.1
30°-40°	778.5	7.2
40°-50°	767.6	7.1
50°-60°	586.6	5.5
60°-70°	363.0	3.4
70°-80°	206.2	1.9
80°-90°	62.7	0.6
90°-100°	494.4	4.6
100°-110°	1406.7	13.1
110°-120°	1347.8	12.5
120°-130°	1066.7	9.9
130°-140°	856.2	8.0
140°-150°	670.3	6.2
150°-160°	490.5	4.6
160°-170°	303.8	2.8
170°-180°	103.1	1.0
0°-30°	1238.0	11.5
0°-40°	2016.6	18.8
0°-60°	3370.8	31.4
0°-90°	4002.7	37.3
90°-120°	3249.0	30.2
90°-150°	5842.2	54.4
90°-180°	6740.0	62.7
0°-180°	10742.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1609	1592	1597	1592	1589	153
15°	1549	1533	1539	1534	1531	437
25°	1436	1418	1426	1411	1410	661
35°	1265	1250	1254	1237	1236	789
45°	1023	1010	1005	987	985	784
55°	670	660	655	644	641	601
65°	360	357	361	359	359	365
75°	194	194	194	196	196	205
85°	50	52	55	55	55	58
90°	0	0	0	0	0	4
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	

TEST NUMBER: P562118

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.2	1601.2	1601.2	1601.2	1601.2
2.5°	1611.1	1597.1	1601.2	1597.7	1590.1
5°	1609.4	1591.9	1597.0	1591.5	1588.8
7.5°	1597.0	1579.8	1584.9	1579.3	1577.7
10°	1586.0	1569.8	1575.0	1569.4	1566.7
12.5°	1573.9	1556.6	1562.8	1556.1	1553.4
15°	1548.8	1532.6	1539.1	1533.5	1530.8
17.5°	1521.2	1503.9	1510.4	1504.0	1500.5
20°	1499.1	1482.9	1489.5	1479.8	1478.4
22.5°	1474.8	1458.7	1465.2	1452.2	1451.9
25°	1435.7	1418.1	1426.0	1410.8	1409.5
27.5°	1389.1	1372.9	1379.4	1363.9	1362.3
30°	1357.1	1340.9	1347.4	1330.8	1328.1
32.5°	1320.7	1305.5	1311.0	1294.4	1292.8
35°	1264.7	1249.8	1253.6	1237.0	1235.7
37.5°	1200.9	1187.5	1189.6	1171.4	1170.1
40°	1155.7	1142.2	1143.3	1124.0	1122.6
42.5°	1106.1	1092.6	1091.4	1072.1	1070.8
45°	1023.3	1009.8	1005.4	987.4	984.7
47.5°	929.0	915.5	907.2	892.5	890.6
50°	860.6	847.1	839.9	827.4	823.3
52.5°	786.7	773.2	767.1	755.7	751.6
55°	670.3	659.5	655.1	644.0	641.3
57.5°	559.6	552.4	551.1	540.3	539.2
60°	492.3	488.3	488.2	478.6	478.6
62.5°	435.0	432.0	434.1	427.8	426.7
65°	360.0	357.3	361.3	358.6	358.6
67.5°	300.6	300.6	303.1	302.0	302.0
70°	267.6	267.6	268.9	268.9	268.9
72.5°	237.8	236.7	240.2	240.2	239.1
75°	194.5	194.5	194.5	195.8	195.8
77.5°	151.4	151.7	152.8	152.5	151.4
80°	122.7	124.1	124.1	122.7	122.7
82.5°	94.1	95.4	95.4	95.1	94.1
85°	49.6	52.3	55.2	55.2	55.2
87.5°	14.3	18.7	22.1	22.0	21.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

TEST NUMBER: P562118

CATALOG NUMBER: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)