

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: P561754

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561754
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10804.6 lumens
Efficiency: N/A
Efficacy: 115.4 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

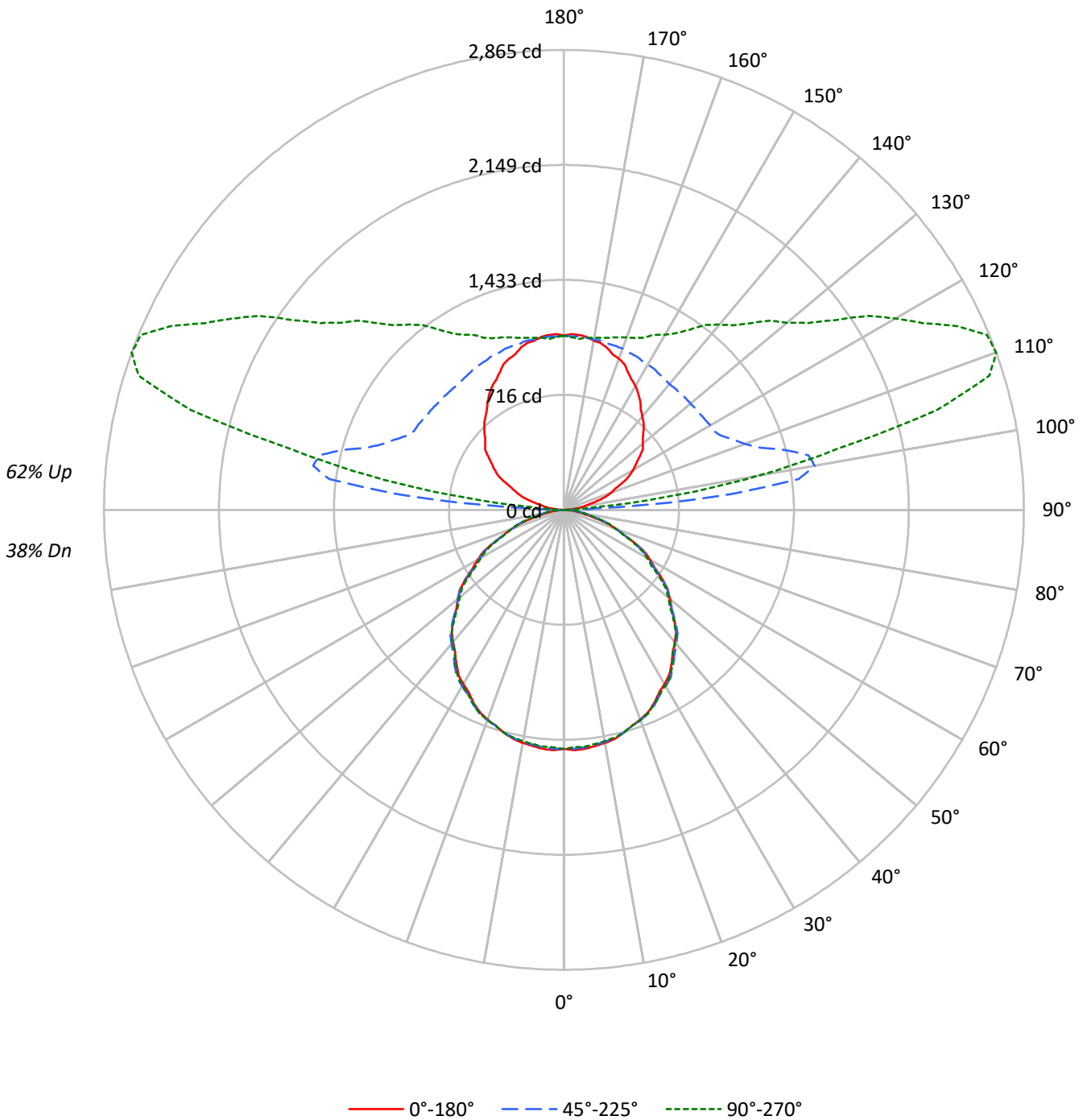
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	13742	13742	13742
5°	13846	13756	13705
10°	13812	13747	13709
15°	13739	13739	13727
20°	13649	13690	13690
25°	13520	13619	13576
30°	13355	13517	13459
35°	13156	13359	13266
40°	12939	13122	12989
45°	12705	12795	12596
50°	12373	12373	12175
55°	11979	11824	11646
60°	11402	11171	10994
65°	10538	10326	10237
70°	9226	9301	9263
75°	7422	8210	8259
80°	5276	6960	7035
85°	3208	5843	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.3
10°-20°	404.5	3.7
20°-30°	612.6	5.7
30°-40°	734.4	6.8
40°-50°	748.9	6.9
50°-60°	653.7	6.1
60°-70°	468.0	4.3
70°-80°	241.0	2.2
80°-90°	60.9	0.6
90°-100°	494.4	4.6
100°-110°	1406.7	13.0
110°-120°	1347.8	12.5
120°-130°	1066.7	9.9
130°-140°	856.2	7.9
140°-150°	670.3	6.2
150°-160°	490.5	4.5
160°-170°	303.8	2.8
170°-180°	103.1	1.0
0°-30°	1158.1	10.7
0°-40°	1892.5	17.5
0°-60°	3295.0	30.5
0°-90°	4065.0	37.6
90°-120°	3249.0	30.1
90°-150°	5842.2	54.1
90°-180°	6740.0	62.4
0°-180°	10804.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1495	1480	1485	1481	1480	142
15°	1438	1426	1438	1438	1437	406
25°	1328	1319	1338	1334	1334	611
35°	1168	1165	1186	1178	1178	731
45°	974	971	981	968	965	749
55°	745	735	735	724	724	664
65°	483	472	473	469	469	477
75°	208	218	230	232	232	225
85°	30	46	55	56	55	41
90°	0	0	0	0	0	3
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1498.3	1485.3	1489.5	1486.0	1480.6
5°	1495.0	1480.1	1485.3	1481.2	1479.8
7.5°	1484.2	1469.4	1476.2	1473.4	1472.1
10°	1474.3	1459.5	1467.4	1464.6	1463.3
12.5°	1461.1	1447.3	1456.4	1453.6	1453.3
15°	1438.4	1426.3	1438.4	1438.4	1437.1
17.5°	1410.0	1399.0	1412.0	1412.8	1412.0
20°	1390.2	1378.0	1394.3	1393.0	1394.3
22.5°	1365.9	1355.9	1373.3	1369.8	1371.1
25°	1328.1	1318.7	1337.8	1333.6	1333.6
27.5°	1283.4	1276.7	1297.5	1293.1	1293.1
30°	1253.6	1246.9	1268.8	1263.3	1263.3
32.5°	1220.5	1215.9	1236.8	1230.2	1230.2
35°	1168.1	1165.4	1186.1	1177.8	1177.8
37.5°	1114.1	1111.6	1130.3	1120.3	1117.1
40°	1074.3	1073.0	1089.5	1078.5	1078.5
42.5°	1034.6	1033.3	1047.6	1034.3	1034.3
45°	973.7	971.0	980.6	968.1	965.4
47.5°	907.2	904.5	910.5	897.0	895.6
50°	862.0	859.3	862.0	849.5	848.2
52.5°	815.6	810.8	811.2	798.8	798.5
55°	744.7	735.3	735.1	724.0	724.0
57.5°	669.7	657.3	658.4	649.0	647.6
60°	617.9	604.4	605.4	597.1	595.8
62.5°	567.1	551.5	554.7	545.3	545.0
65°	482.7	471.9	473.0	468.9	468.9
67.5°	401.6	391.6	398.8	395.5	395.3
70°	342.0	335.3	344.8	344.8	343.4
72.5°	286.9	286.6	298.4	298.5	299.3
75°	208.2	217.7	230.3	231.7	231.7
77.5°	139.0	155.7	169.6	170.2	169.9
80°	99.3	118.2	131.0	133.7	132.4
82.5°	67.3	87.3	97.9	100.6	99.3
85°	30.3	46.5	55.2	56.5	55.2
87.5°	8.8	18.5	22.1	22.0	19.9
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

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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)