

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: P563143

Luminaire Tested: **SQ4-PC3-150U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563143  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

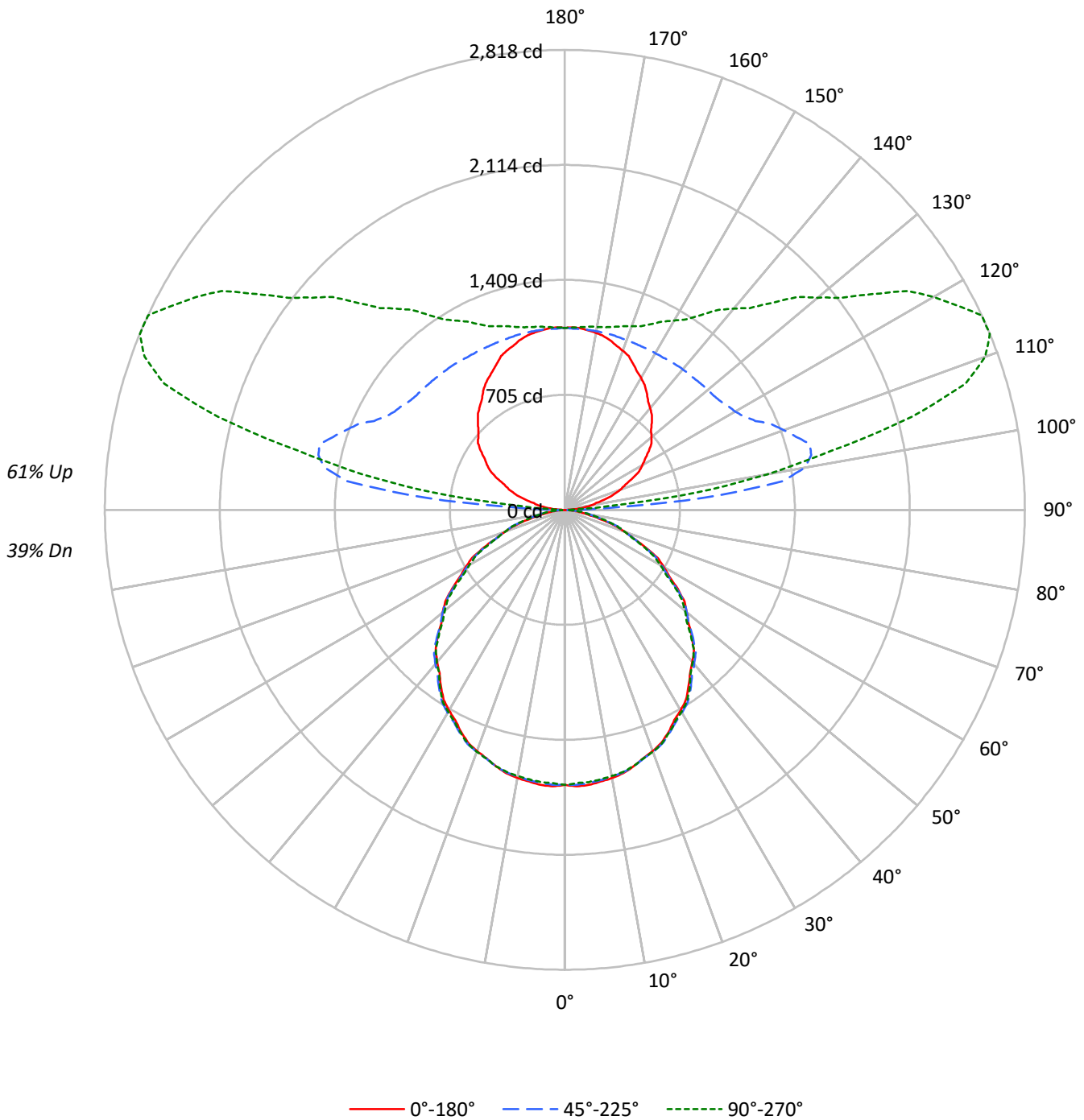
Lumens per Lamp: N/A  
Luminaire Lumens: 11792.9 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 112.7  
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: P563143  
CATALOG NUMBER: SQ4-PC3-150U-100D-930-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563143

CATALOG NUMBER: SQ4-PC3-150U-100D-930-1D-UNV-STD-W-6

**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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10368	10368	10368
5°	10446	10378	10339
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9585	9653	9503
50°	9334	9334	9184
55°	9038	8921	8787
60°	8601	8428	8294
65°	7949	7791	7722
70°	6962	7017	6988
75°	5601	6193	6231
80°	3981	5253	5306
85°	2421	4404	4404



TEST NUMBER: P563143

CATALOG NUMBER: SQ4-PC3-150U-100D-930-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	1.4
10°-20°	457.8	3.9
20°-30°	693.2	5.9
30°-40°	831.1	7.0
40°-50°	847.4	7.2
50°-60°	739.8	6.3
60°-70°	529.6	4.5
70°-80°	272.8	2.3
80°-90°	71.3	0.6
90°-100°	518.3	4.4
100°-110°	1401.4	11.9
110°-120°	1473.3	12.5
120°-130°	1196.7	10.1
130°-140°	938.7	8.0
140°-150°	720.5	6.1
150°-160°	518.2	4.4
160°-170°	316.5	2.7
170°-180°	106.7	0.9
0°-30°	1310.5	11.1
0°-40°	2141.7	18.2
0°-60°	3728.9	31.6
0°-90°	4602.5	39.0
90°-120°	3393.0	28.8
90°-150°	6249.0	53.0
90°-180°	7190.0	61.0
0°-180°	11792.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1692	1675	1681	1676	1675	161
15°	1628	1614	1628	1628	1626	459
25°	1503	1492	1514	1509	1509	692
35°	1322	1319	1342	1333	1333	827
45°	1102	1099	1110	1096	1092	848
55°	843	832	832	819	819	751
65°	546	534	535	531	531	540
75°	236	246	261	262	262	255
85°	34	53	62	64	62	47
90°	2	7	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

TEST NUMBER: P563143

CATALOG NUMBER: SQ4-PC3-150U-100D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1695.6	1680.9	1685.6	1681.7	1675.6
5°	1691.8	1675.0	1680.9	1676.2	1674.6
7.5°	1679.6	1662.8	1670.6	1667.4	1665.9
10°	1668.4	1651.6	1660.6	1657.4	1655.9
12.5°	1653.4	1637.8	1648.1	1645.0	1644.7
15°	1627.8	1614.1	1627.8	1627.8	1626.3
17.5°	1595.7	1583.2	1597.9	1598.8	1597.9
20°	1573.2	1559.5	1577.9	1576.3	1577.9
22.5°	1545.7	1534.4	1554.2	1550.1	1551.7
25°	1503.0	1492.3	1513.9	1509.2	1509.2
27.5°	1452.4	1444.8	1468.3	1463.3	1463.3
30°	1418.7	1411.1	1435.8	1429.6	1429.6
32.5°	1381.2	1376.0	1399.6	1392.1	1392.1
35°	1321.9	1318.9	1342.2	1332.8	1332.8
37.5°	1260.7	1258.0	1279.2	1267.8	1264.2
40°	1215.8	1214.3	1233.0	1220.5	1220.5
42.5°	1170.8	1169.3	1185.5	1170.5	1170.5
45°	1101.9	1098.8	1109.7	1095.5	1092.5
47.5°	1026.6	1023.6	1030.4	1015.0	1013.5
50°	975.4	972.4	975.4	961.4	959.8
52.5°	923.0	917.5	918.0	904.0	903.6
55°	842.8	832.1	831.9	819.4	819.4
57.5°	757.9	743.8	745.1	734.4	732.9
60°	699.2	683.9	685.1	675.8	674.2
62.5°	641.8	624.1	627.7	617.1	616.8
65°	546.2	534.0	535.3	530.6	530.6
67.5°	454.5	443.2	451.4	447.6	447.3
70°	387.1	379.4	390.2	390.1	388.6
72.5°	324.6	324.3	337.7	337.8	338.7
75°	235.7	246.3	260.6	262.2	262.2
77.5°	157.3	176.2	192.0	192.6	192.3
80°	112.4	133.7	148.3	151.4	149.8
82.5°	76.2	98.7	110.8	113.9	112.4
85°	34.3	52.6	62.4	64.0	62.4
87.5°	10.5	22.4	28.1	28.3	25.6
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



TEST NUMBER: P563143

CATALOG NUMBER: SQ4-PC3-150U-100D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)