

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: P562952

Luminaire Tested: **SQ4-PC3-100U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562952  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

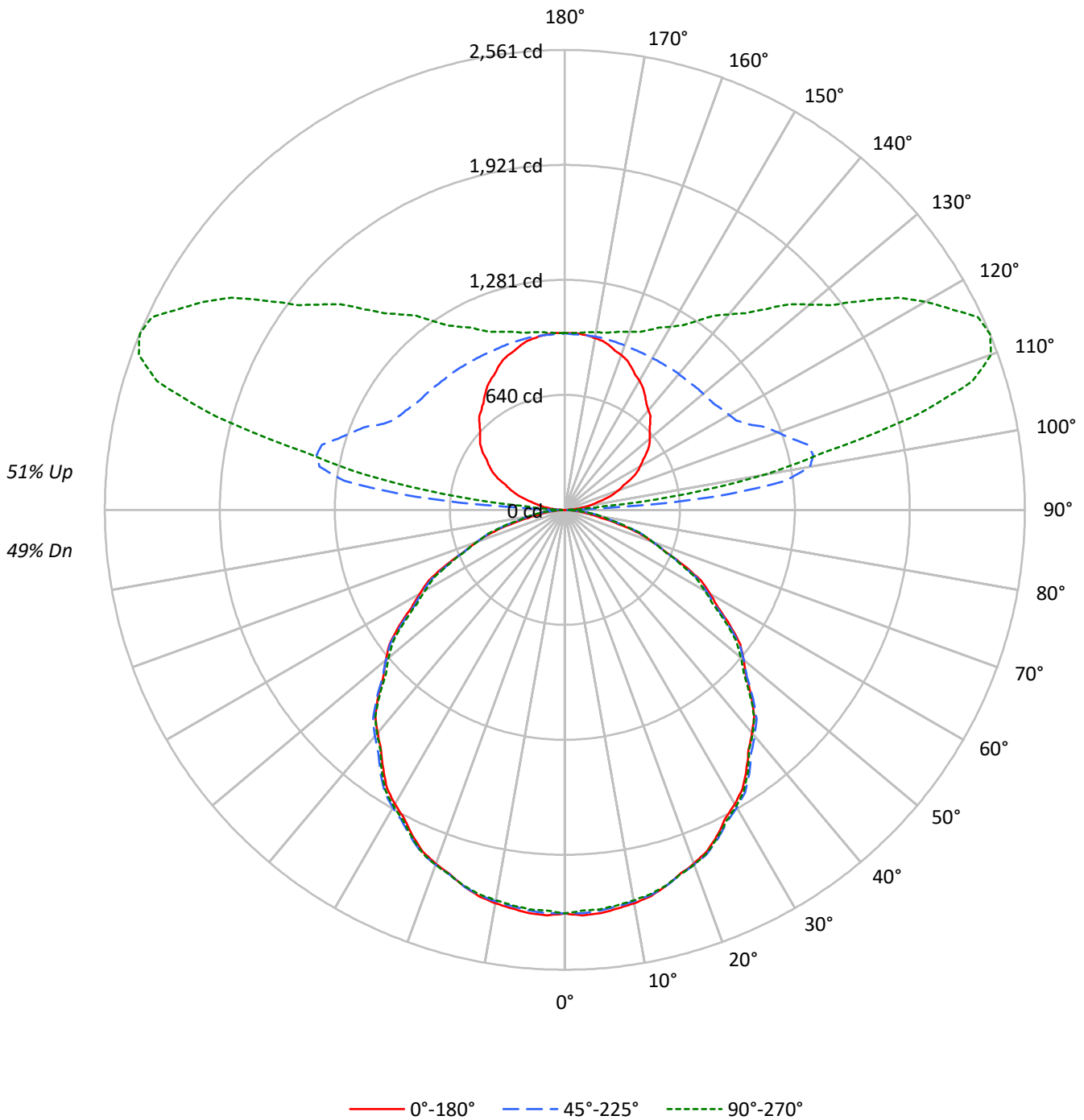
Lumens per Lamp: N/A  
Luminaire Lumens: 12527.7 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 121.2  
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: P562952  
CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P562952

CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-8

**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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10420	10371	10342
15°	10365	10365	10355
20°	10297	10328	10328
25°	10200	10274	10243
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8787
60°	8602	8428	8294
65°	7950	7792	7723
70°	6961	7016	6989
75°	5600	6194	6231
80°	3980	5252	5308
85°	2424	4404	4404



TEST NUMBER: P562952

CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	1.7
10°-20°	610.4	4.9
20°-30°	924.3	7.4
30°-40°	1108.1	8.8
40°-50°	1129.9	9.0
50°-60°	986.3	7.9
60°-70°	706.2	5.6
70°-80°	363.7	2.9
80°-90°	94.0	0.8
90°-100°	460.7	3.7
100°-110°	1271.9	10.2
110°-120°	1311.7	10.5
120°-130°	1054.1	8.4
130°-140°	828.4	6.6
140°-150°	635.3	5.1
150°-160°	456.6	3.6
160°-170°	279.2	2.2
170°-180°	94.1	0.8
0°-30°	1747.4	13.9
0°-40°	2855.5	22.8
0°-60°	4971.8	39.7
0°-90°	6135.7	49.0
90°-120°	3044.3	24.3
90°-150°	5562.0	44.4
90°-180°	6392.0	51.0
0°-180°	12527.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2256	2233	2241	2235	2233	214
15°	2170	2152	2170	2170	2168	612
25°	2004	1990	2018	2012	2012	922
35°	1763	1758	1790	1777	1777	1102
45°	1469	1465	1480	1461	1457	1131
55°	1124	1110	1109	1092	1092	1002
65°	728	712	714	708	708	720
75°	314	328	348	350	350	340
85°	46	70	83	85	83	62
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	



TEST NUMBER: P562952

CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2260.7	2241.2	2247.4	2242.2	2234.1
5°	2255.7	2233.4	2241.2	2234.9	2232.8
7.5°	2239.5	2217.1	2227.4	2223.2	2221.2
10°	2224.5	2202.1	2214.1	2209.9	2207.9
12.5°	2204.5	2183.8	2197.5	2193.3	2192.9
15°	2170.4	2152.1	2170.4	2170.4	2168.3
17.5°	2127.6	2110.9	2130.5	2131.7	2130.5
20°	2097.6	2079.3	2103.8	2101.8	2103.8
22.5°	2061.0	2045.9	2072.2	2066.8	2068.9
25°	2003.9	1989.7	2018.5	2012.3	2012.3
27.5°	1936.5	1926.3	1957.7	1951.1	1951.1
30°	1891.6	1881.4	1914.5	1906.1	1906.1
32.5°	1841.6	1834.7	1866.2	1856.2	1856.2
35°	1762.6	1758.5	1789.6	1777.1	1777.1
37.5°	1681.0	1677.3	1705.5	1690.4	1685.6
40°	1621.1	1619.0	1643.9	1627.3	1627.3
42.5°	1561.1	1559.1	1580.7	1560.7	1560.7
45°	1469.1	1465.1	1479.5	1460.7	1456.7
47.5°	1368.8	1364.8	1373.8	1353.4	1351.4
50°	1300.6	1296.5	1300.6	1281.8	1279.8
52.5°	1230.7	1223.3	1224.0	1205.3	1204.9
55°	1123.7	1109.5	1109.1	1092.5	1092.5
57.5°	1010.5	991.8	993.4	979.2	977.2
60°	932.3	911.9	913.5	901.0	899.0
62.5°	855.7	832.1	837.0	822.8	822.4
65°	728.3	712.1	713.8	707.5	707.5
67.5°	606.0	590.9	601.8	596.8	596.4
70°	516.1	505.9	520.2	520.2	518.2
72.5°	432.8	432.4	450.3	450.3	451.6
75°	314.2	328.5	347.5	349.6	349.6
77.5°	209.8	235.0	256.0	256.8	256.4
80°	149.8	178.3	197.7	201.8	199.8
82.5°	101.5	131.7	147.7	151.9	149.8
85°	45.8	70.2	83.2	85.3	83.2
87.5°	13.9	29.2	35.8	36.1	33.1
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7



TEST NUMBER: P562952

CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)