

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: P562960

Luminaire Tested: **SQ4-PC3-100U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562960  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

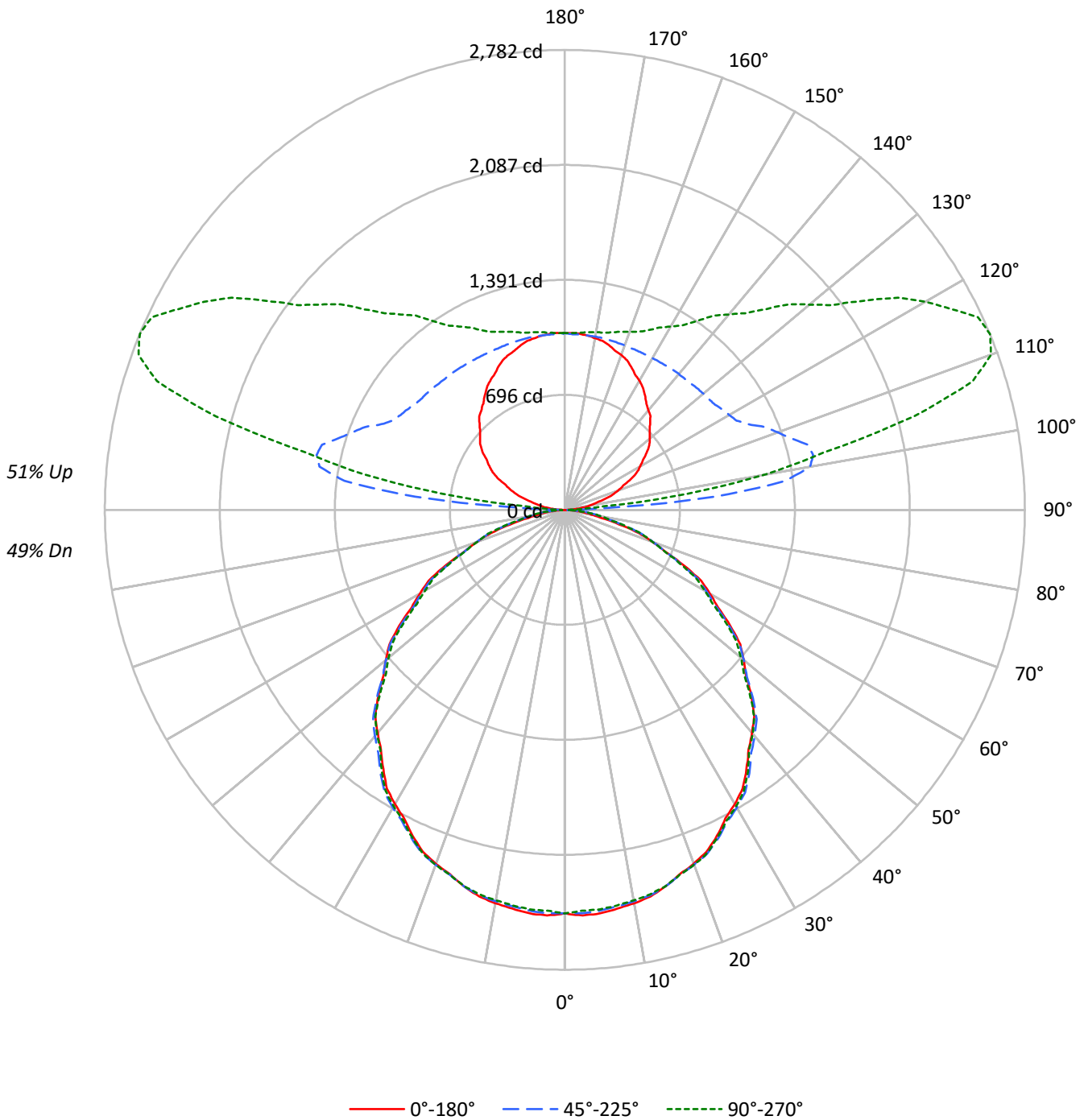
Lumens per Lamp: N/A  
Luminaire Lumens: 13609.6 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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: P562960  
CATALOG NUMBER: SQ4-PC3-100U-100D-940-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P562960

CATALOG NUMBER: SQ4-PC3-100U-100D-940-1D-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°	11263	11263	11263
5°	11348	11274	11233
10°	11320	11267	11236
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7592
75°	6085	6728	6769
80°	4325	5706	5765
85°	2631	4785	4785



TEST NUMBER: P562960

CATALOG NUMBER: SQ4-PC3-100U-100D-940-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.1	1.7
10°-20°	663.1	4.9
20°-30°	1004.2	7.4
30°-40°	1203.9	8.8
40°-50°	1227.5	9.0
50°-60°	1071.5	7.9
60°-70°	767.1	5.6
70°-80°	395.1	2.9
80°-90°	102.1	0.8
90°-100°	500.5	3.7
100°-110°	1381.7	10.2
110°-120°	1425.0	10.5
120°-130°	1145.1	8.4
130°-140°	899.9	6.6
140°-150°	690.2	5.1
150°-160°	496.0	3.6
160°-170°	303.4	2.2
170°-180°	102.3	0.8
0°-30°	1898.3	13.9
0°-40°	3102.2	22.8
0°-60°	5401.2	39.7
0°-90°	6665.5	49.0
90°-120°	3307.2	24.3
90°-150°	6042.4	44.4
90°-180°	6944.0	51.0
0°-180°	13609.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2451	2426	2435	2428	2426	233
15°	2358	2338	2358	2358	2356	665
25°	2177	2162	2193	2186	2186	1002
35°	1915	1910	1944	1931	1931	1198
45°	1596	1592	1607	1587	1582	1229
55°	1221	1205	1205	1187	1187	1088
65°	791	774	775	769	769	783
75°	341	357	378	380	380	369
85°	50	76	90	93	90	68
90°	3	7	14	15	17	7
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

TEST NUMBER: P562960

CATALOG NUMBER: SQ4-PC3-100U-100D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2441.5	2441.5	2441.5	2441.5	2441.5
2.5°	2456.0	2434.8	2441.5	2435.9	2427.0
5°	2450.6	2426.2	2434.7	2427.9	2425.7
7.5°	2432.9	2408.6	2419.8	2415.2	2413.0
10°	2416.6	2392.3	2405.3	2400.8	2398.6
12.5°	2394.9	2372.4	2387.3	2382.7	2382.3
15°	2357.9	2338.0	2357.9	2357.8	2355.6
17.5°	2311.3	2293.2	2314.5	2315.8	2314.5
20°	2278.7	2258.9	2285.5	2283.3	2285.5
22.5°	2239.0	2222.6	2251.2	2245.3	2247.6
25°	2177.0	2161.5	2192.8	2186.1	2186.1
27.5°	2103.8	2092.7	2126.8	2119.6	2119.6
30°	2054.9	2043.9	2079.8	2070.8	2070.8
32.5°	2000.7	1993.2	2027.4	2016.5	2016.5
35°	1914.8	1910.4	1944.2	1930.6	1930.6
37.5°	1826.2	1822.2	1852.8	1836.4	1831.1
40°	1761.1	1758.8	1785.9	1767.8	1767.8
42.5°	1695.9	1693.7	1717.2	1695.5	1695.5
45°	1596.0	1591.6	1607.3	1586.9	1582.5
47.5°	1487.1	1482.6	1492.5	1470.3	1468.1
50°	1412.9	1408.5	1412.9	1392.5	1390.3
52.5°	1337.0	1329.0	1329.7	1309.4	1308.9
55°	1220.8	1205.3	1204.9	1186.8	1186.8
57.5°	1097.8	1077.4	1079.2	1063.8	1061.6
60°	1012.8	990.7	992.4	978.8	976.6
62.5°	929.6	903.9	909.2	893.9	893.4
65°	791.2	773.5	775.4	768.6	768.6
67.5°	658.3	641.9	653.8	648.3	647.9
70°	560.6	549.6	565.2	565.1	562.9
72.5°	470.2	469.8	489.2	489.2	490.6
75°	341.4	356.8	377.5	379.8	379.8
77.5°	227.9	255.3	278.1	279.0	278.5
80°	162.8	193.7	214.8	219.2	217.0
82.5°	110.3	143.0	160.5	165.0	162.8
85°	49.7	76.3	90.4	92.6	90.4
87.5°	15.2	31.7	38.9	39.2	36.0
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



TEST NUMBER: P562960

CATALOG NUMBER: SQ4-PC3-100U-100D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)