

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: P563174

Luminaire Tested: **SQ4-PC3-150U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563174  
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-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

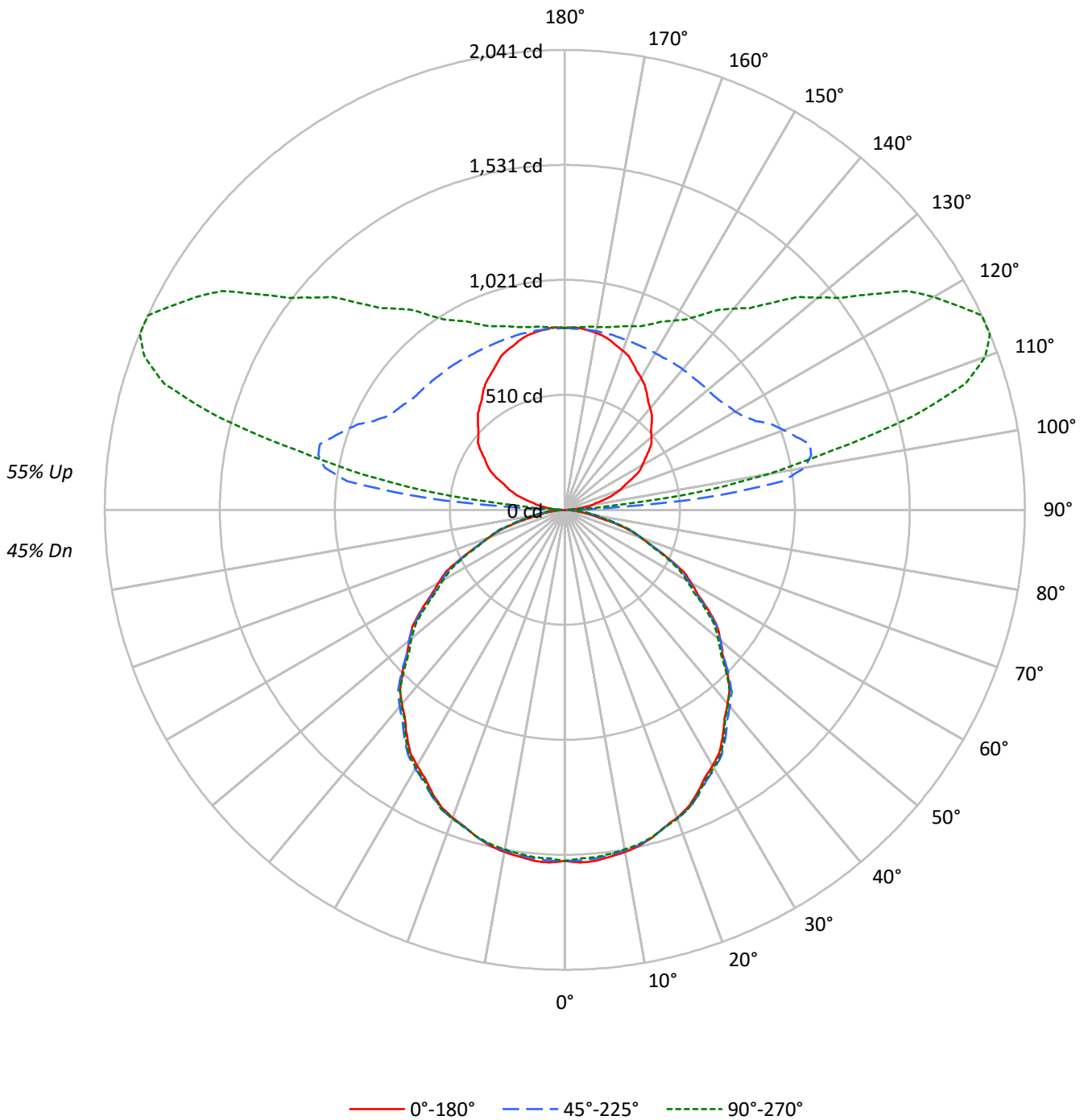
Lumens per Lamp: N/A  
Luminaire Lumens: 9461.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.1  
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	45°	90°
0°	14374	14374	14374
5°	14481	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13534	13724	13586
45°	13288	13382	13174
50°	12940	12940	12733
55°	12529	12366	12181
60°	11924	11684	11498
65°	11022	10802	10706
70°	9649	9727	9690
75°	7764	8587	8637
80°	5520	7279	7359
85°	3356	6108	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	1.6
10°-20°	423.1	4.5
20°-30°	640.7	6.8
30°-40°	768.1	8.1
40°-50°	783.2	8.3
50°-60°	683.7	7.2
60°-70°	489.5	5.2
70°-80°	252.1	2.7
80°-90°	65.4	0.7
90°-100°	375.4	4.0
100°-110°	1014.9	10.7
110°-120°	1067.1	11.3
120°-130°	866.7	9.2
130°-140°	679.9	7.2
140°-150°	521.8	5.5
150°-160°	375.3	4.0
160°-170°	229.3	2.4
170°-180°	77.3	0.8
0°-30°	1211.2	12.8
0°-40°	1979.4	20.9
0°-60°	3446.3	36.4
0°-90°	4253.4	45.0
90°-120°	2457.4	26.0
90°-150°	4525.8	47.8
90°-180°	5208.0	55.0
0°-180°	9461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1564	1548	1554	1549	1548	148
15°	1504	1492	1504	1504	1503	424
25°	1389	1379	1399	1395	1395	639
35°	1222	1219	1240	1232	1232	764
45°	1018	1016	1026	1012	1010	784
55°	779	769	769	757	757	694
65°	505	494	495	490	490	499
75°	218	228	241	242	242	235
85°	32	49	58	59	58	43
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

TEST NUMBER: P563174

CATALOG NUMBER: SQ4-PC3-150U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1557.9	1557.9	1557.9	1557.9	1557.9
2.5°	1567.1	1553.5	1557.9	1554.3	1548.6
5°	1563.6	1548.1	1553.5	1549.2	1547.8
7.5°	1552.4	1536.9	1544.0	1541.1	1539.7
10°	1542.0	1526.5	1534.8	1531.9	1530.4
12.5°	1528.1	1513.7	1523.2	1520.3	1520.1
15°	1504.5	1491.8	1504.5	1504.4	1503.0
17.5°	1474.8	1463.2	1476.8	1477.6	1476.8
20°	1454.0	1441.3	1458.3	1456.9	1458.3
22.5°	1428.6	1418.2	1436.4	1432.7	1434.1
25°	1389.1	1379.2	1399.2	1394.9	1394.9
27.5°	1342.3	1335.3	1357.1	1352.4	1352.4
30°	1311.2	1304.1	1327.1	1321.3	1321.3
32.5°	1276.6	1271.8	1293.6	1286.7	1286.7
35°	1221.8	1218.9	1240.5	1231.9	1231.9
37.5°	1165.2	1162.7	1182.2	1171.8	1168.4
40°	1123.7	1122.3	1139.5	1128.0	1128.0
42.5°	1082.1	1080.7	1095.7	1081.8	1081.8
45°	1018.4	1015.6	1025.6	1012.5	1009.7
47.5°	948.8	946.0	952.3	938.1	936.7
50°	901.5	898.7	901.5	888.5	887.1
52.5°	853.1	848.0	848.5	835.5	835.2
55°	778.9	769.1	768.8	757.3	757.3
57.5°	700.5	687.5	688.6	678.8	677.4
60°	646.2	632.1	633.2	624.6	623.1
62.5°	593.1	576.8	580.2	570.3	570.1
65°	504.9	493.6	494.8	490.4	490.4
67.5°	420.0	409.6	417.2	413.7	413.4
70°	357.7	350.7	360.6	360.6	359.2
72.5°	300.0	299.7	312.1	312.2	313.0
75°	217.8	227.7	240.9	242.3	242.3
77.5°	145.4	162.9	177.4	178.0	177.7
80°	103.9	123.6	137.0	139.9	138.5
82.5°	70.4	91.3	102.4	105.3	103.9
85°	31.7	48.7	57.7	59.1	57.7
87.5°	9.6	20.4	25.3	25.5	23.0
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



TEST NUMBER: P563174

CATALOG NUMBER: SQ4-PC3-150U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)