

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: P562996

Luminaire Tested: **SQ4-PC3-125U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562996  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-050D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

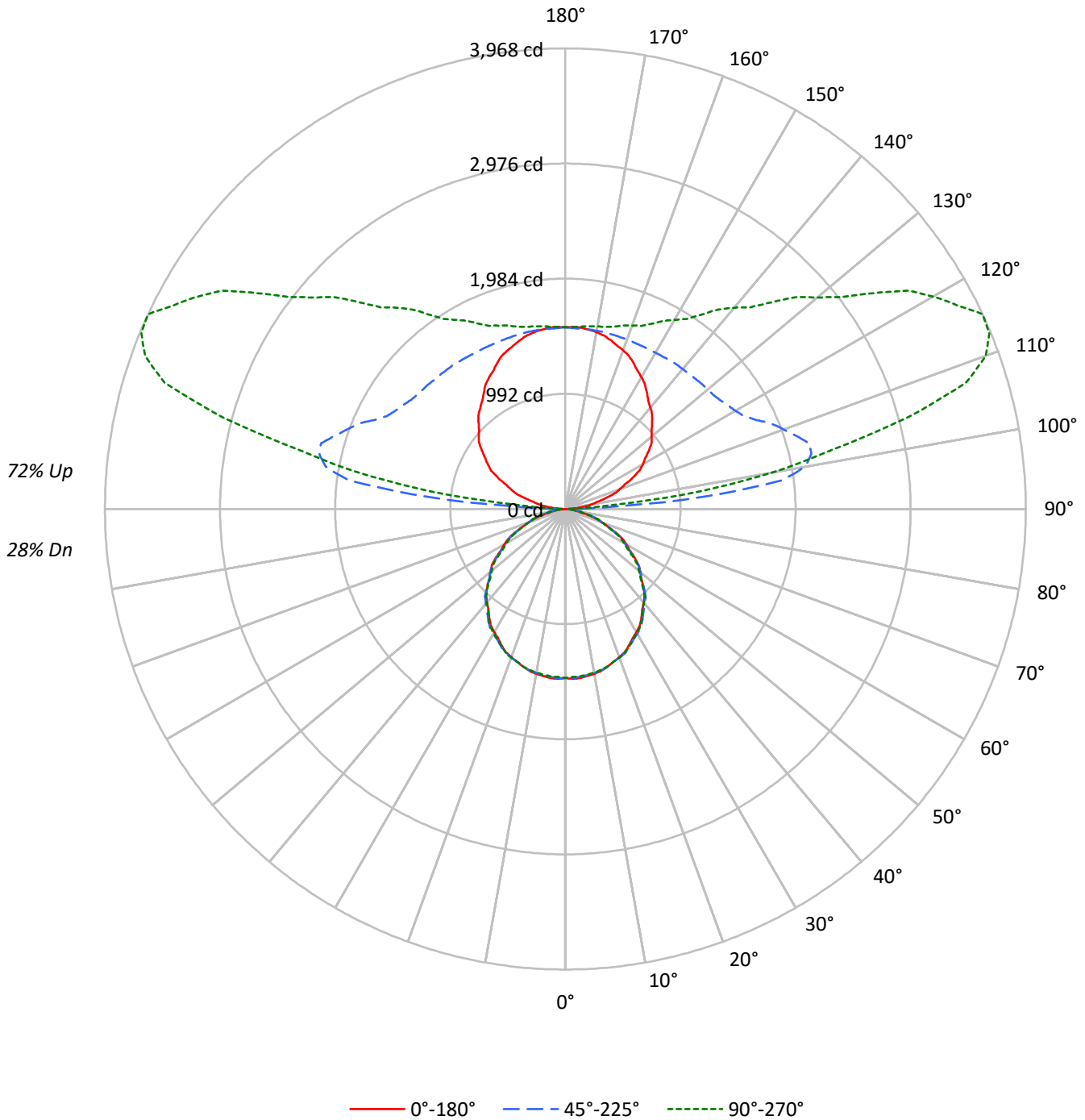
Lumens per Lamp: N/A  
Luminaire Lumens: 14078.5 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 96.8  
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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

	0°	45°	90°
0°	6720	6720	6720
5°	6771	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6486
40°	6327	6416	6351
45°	6212	6256	6159
50°	6050	6050	5953
55°	5857	5782	5695
60°	5574	5463	5376
65°	5153	5050	5006
70°	4512	4548	4529
75°	3631	4014	4039
80°	2580	3403	3440
85°	1572	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	1.0
10°-20°	395.6	2.8
20°-30°	599.1	4.3
30°-40°	718.3	5.1
40°-50°	732.4	5.2
50°-60°	639.3	4.5
60°-70°	457.7	3.3
70°-80°	235.7	1.7
80°-90°	63.3	0.4
90°-100°	731.8	5.2
100°-110°	1971.4	14.0
110°-120°	2068.9	14.7
120°-130°	1678.9	11.9
130°-140°	1316.7	9.4
140°-150°	1010.9	7.2
150°-160°	726.8	5.2
160°-170°	444.1	3.2
170°-180°	149.7	1.1
0°-30°	1132.6	8.0
0°-40°	1850.8	13.1
0°-60°	3222.5	22.9
0°-90°	3979.2	28.3
90°-120°	4772.2	33.9
90°-150°	8778.6	62.4
90°-180°	10099.0	71.7
0°-180°	14078.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1462	1448	1453	1448	1447	139
15°	1407	1395	1407	1407	1405	397
25°	1299	1290	1308	1304	1304	598
35°	1142	1140	1160	1152	1152	714
45°	952	950	959	947	944	733
55°	728	719	719	708	708	649
65°	472	462	463	459	459	467
75°	204	213	225	227	227	220
85°	30	46	54	55	54	40
90°	4	12	24	26	26	9
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1465.3	1452.6	1456.7	1453.3	1448.0
5°	1462.1	1447.6	1452.6	1448.5	1447.2
7.5°	1451.5	1437.0	1443.7	1441.0	1439.7
10°	1441.8	1427.3	1435.1	1432.4	1431.0
12.5°	1428.9	1415.4	1424.3	1421.6	1421.3
15°	1406.8	1394.9	1406.8	1406.7	1405.4
17.5°	1379.0	1368.2	1380.9	1381.7	1380.9
20°	1359.6	1347.7	1363.6	1362.3	1363.6
22.5°	1335.8	1326.1	1343.1	1339.6	1340.9
25°	1298.9	1289.6	1308.3	1304.3	1304.3
27.5°	1255.2	1248.6	1268.9	1264.6	1264.6
30°	1226.0	1219.4	1240.9	1235.5	1235.5
32.5°	1193.7	1189.2	1209.6	1203.1	1203.1
35°	1142.4	1139.8	1159.9	1151.8	1151.8
37.5°	1089.5	1087.2	1105.5	1095.7	1092.5
40°	1050.7	1049.4	1065.5	1054.7	1054.7
42.5°	1011.8	1010.5	1024.5	1011.6	1011.6
45°	952.2	949.6	959.0	946.8	944.1
47.5°	887.2	884.6	890.5	877.2	875.9
50°	843.0	840.3	843.0	830.8	829.5
52.5°	797.7	792.9	793.3	781.2	780.9
55°	728.3	719.1	718.9	708.1	708.1
57.5°	655.0	642.8	643.9	634.7	633.4
60°	604.2	591.1	592.1	584.0	582.7
62.5°	554.6	539.3	542.5	533.3	533.0
65°	472.1	461.5	462.6	458.6	458.6
67.5°	392.8	383.0	390.1	386.8	386.6
70°	334.5	327.9	337.2	337.2	335.8
72.5°	280.5	280.3	291.9	291.9	292.7
75°	203.7	212.9	225.2	226.6	226.6
77.5°	136.0	152.3	165.9	166.4	166.2
80°	97.1	115.6	128.1	130.8	129.5
82.5°	65.8	85.3	95.8	98.4	97.1
85°	29.7	45.5	54.0	55.3	54.0
87.5°	9.4	20.5	26.4	26.7	24.6
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)