

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: P562992

Luminaire Tested: **SQ4-PC3-125U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562992  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

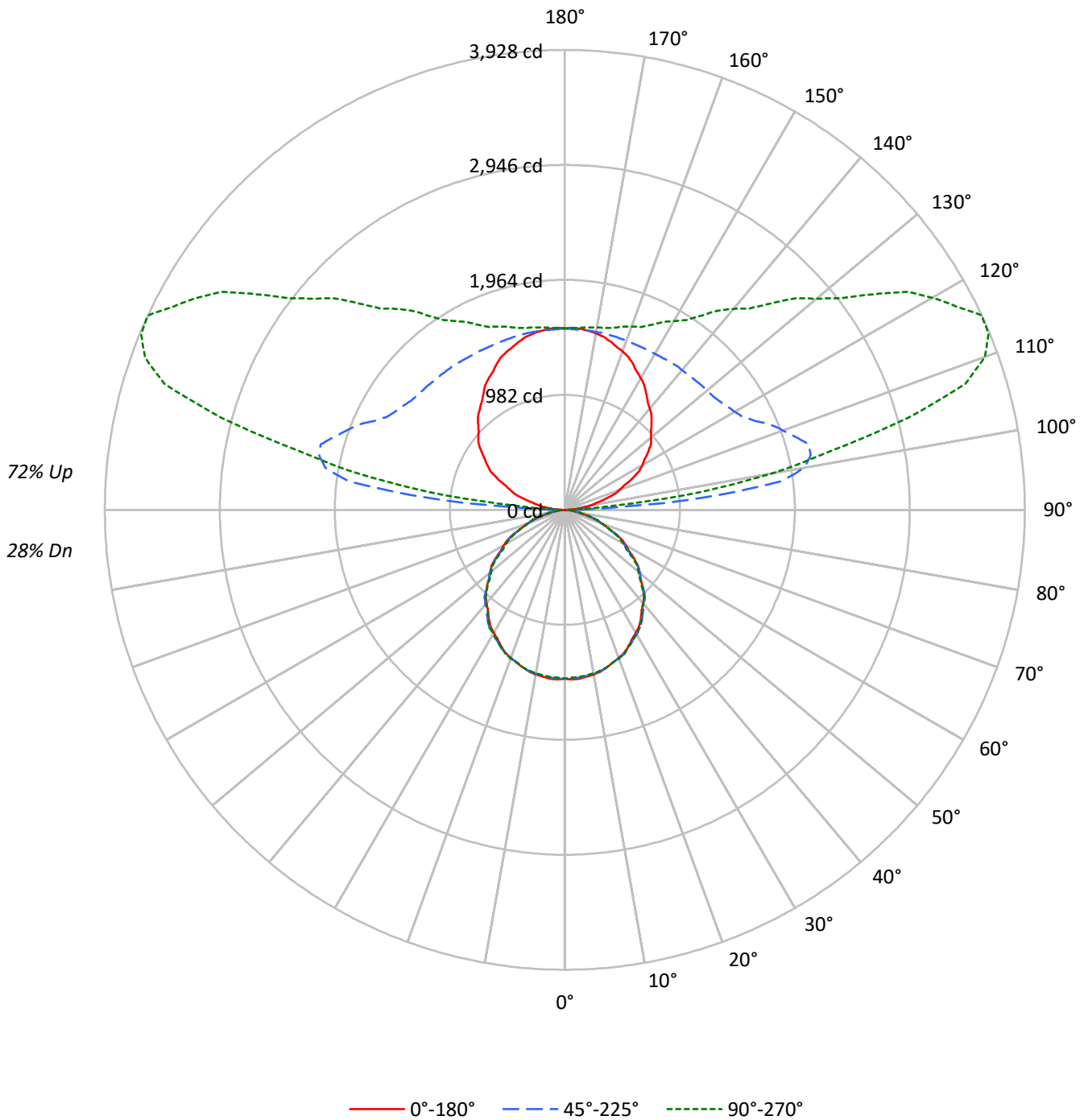
Lumens per Lamp: N/A  
Luminaire Lumens: 13938.2 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5800	5724	5638
60°	5519	5408	5323
65°	5102	4999	4956
70°	4467	4502	4485
75°	3593	3975	3998
80°	2553	3371	3406
85°	1556	2826	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	1.0
10°-20°	391.7	2.8
20°-30°	593.1	4.3
30°-40°	711.1	5.1
40°-50°	725.1	5.2
50°-60°	632.9	4.5
60°-70°	453.1	3.3
70°-80°	233.4	1.7
80°-90°	62.6	0.4
90°-100°	724.6	5.2
100°-110°	1951.8	14.0
110°-120°	2048.3	14.7
120°-130°	1662.1	11.9
130°-140°	1303.6	9.4
140°-150°	1000.8	7.2
150°-160°	719.6	5.2
160°-170°	439.6	3.2
170°-180°	148.3	1.1
0°-30°	1121.3	8.0
0°-40°	1832.4	13.1
0°-60°	3190.4	22.9
0°-90°	3939.5	28.3
90°-120°	4724.6	33.9
90°-150°	8691.2	62.4
90°-180°	9999.0	71.7
0°-180°	13938.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1448	1433	1438	1434	1433	137
15°	1393	1381	1393	1393	1391	393
25°	1286	1277	1295	1291	1291	592
35°	1131	1128	1148	1140	1140	707
45°	943	940	949	937	935	726
55°	721	712	712	701	701	643
65°	467	457	458	454	454	462
75°	202	211	223	224	224	218
85°	29	45	53	55	53	40
90°	4	12	24	26	26	9
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1450.7	1438.2	1442.2	1438.8	1433.6
5°	1447.5	1433.1	1438.2	1434.1	1432.8
7.5°	1437.1	1422.7	1429.3	1426.6	1425.3
10°	1427.5	1413.1	1420.8	1418.1	1416.8
12.5°	1414.7	1401.3	1410.1	1407.4	1407.2
15°	1392.8	1381.0	1392.8	1392.7	1391.4
17.5°	1365.2	1354.5	1367.1	1367.9	1367.1
20°	1346.0	1334.3	1350.0	1348.7	1350.0
22.5°	1322.5	1312.9	1329.7	1326.3	1327.6
25°	1285.9	1276.8	1295.3	1291.3	1291.3
27.5°	1242.7	1236.1	1256.3	1252.0	1252.0
30°	1213.8	1207.3	1228.5	1223.2	1223.2
32.5°	1181.8	1177.3	1197.5	1191.1	1191.1
35°	1131.0	1128.4	1148.4	1140.4	1140.4
37.5°	1078.7	1076.3	1094.4	1084.8	1081.6
40°	1040.2	1038.9	1054.9	1044.2	1044.2
42.5°	1001.8	1000.5	1014.3	1001.5	1001.5
45°	942.7	940.1	949.4	937.3	934.7
47.5°	878.4	875.8	881.6	868.5	867.2
50°	834.6	832.0	834.6	822.5	821.2
52.5°	789.7	785.0	785.4	773.4	773.2
55°	721.1	711.9	711.7	701.0	701.0
57.5°	648.4	636.4	637.5	628.4	627.1
60°	598.2	585.2	586.2	578.2	576.9
62.5°	549.1	533.9	537.1	528.0	527.7
65°	467.4	456.9	458.0	454.0	454.0
67.5°	388.8	379.2	386.2	383.0	382.7
70°	331.2	324.6	333.8	333.8	332.5
72.5°	277.7	277.5	289.0	289.0	289.8
75°	201.6	210.8	223.0	224.3	224.3
77.5°	134.6	150.8	164.2	164.8	164.5
80°	96.1	114.4	126.9	129.5	128.2
82.5°	65.2	84.5	94.8	97.4	96.1
85°	29.4	45.0	53.4	54.7	53.4
87.5°	9.3	20.3	26.1	26.4	24.4
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)