

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: P563024

Luminaire Tested: **SQ4-PC3-125U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563024  
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-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

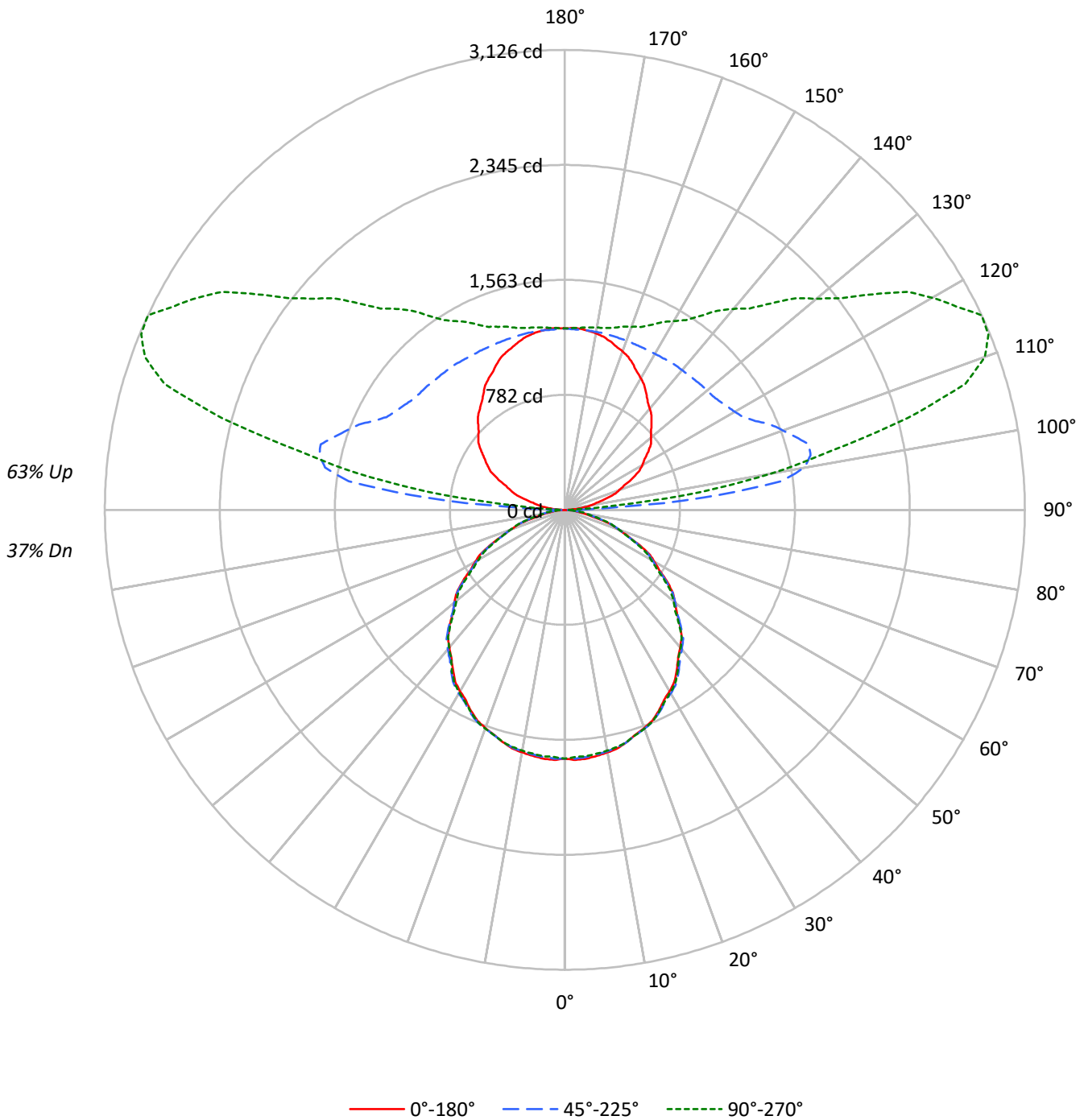
Lumens per Lamp: N/A  
Luminaire Lumens: 12575.6 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5984	5864	5813
70°	5239	5280	5260
75°	4215	4661	4689
80°	2997	3953	3993
85°	1826	3313	3313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	1.3
10°-20°	459.4	3.7
20°-30°	695.7	5.5
30°-40°	834.0	6.6
40°-50°	850.4	6.8
50°-60°	742.3	5.9
60°-70°	531.4	4.2
70°-80°	273.7	2.2
80°-90°	72.1	0.6
90°-100°	576.6	4.6
100°-110°	1553.1	12.4
110°-120°	1629.9	13.0
120°-130°	1322.7	10.5
130°-140°	1037.3	8.2
140°-150°	796.4	6.3
150°-160°	572.6	4.6
160°-170°	349.8	2.8
170°-180°	118.0	0.9
0°-30°	1315.1	10.5
0°-40°	2149.1	17.1
0°-60°	3741.9	29.8
0°-90°	4619.1	36.7
90°-120°	3759.6	29.9
90°-150°	6916.0	55.0
90°-180°	7956.0	63.3
0°-180°	12575.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1698	1681	1687	1682	1680	161
15°	1634	1620	1634	1634	1632	461
25°	1508	1498	1519	1514	1514	694
35°	1326	1324	1347	1338	1338	830
45°	1106	1103	1114	1099	1096	851
55°	846	835	835	822	822	754
65°	548	536	537	532	532	542
75°	236	247	262	263	263	256
85°	34	53	63	64	63	47
90°	3	9	19	20	20	8
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1701.5	1686.8	1691.4	1687.5	1681.4
5°	1697.7	1680.9	1686.7	1682.0	1680.5
7.5°	1685.5	1668.6	1676.4	1673.2	1671.7
10°	1674.2	1657.4	1666.4	1663.2	1661.7
12.5°	1659.2	1643.6	1653.8	1650.7	1650.4
15°	1633.5	1619.7	1633.5	1633.5	1631.9
17.5°	1601.2	1588.7	1603.4	1604.3	1603.4
20°	1578.7	1564.9	1583.4	1581.8	1583.4
22.5°	1551.1	1539.8	1559.6	1555.5	1557.1
25°	1508.2	1497.5	1519.2	1514.5	1514.5
27.5°	1457.5	1449.8	1473.4	1468.4	1468.4
30°	1423.6	1416.0	1440.9	1434.6	1434.6
32.5°	1386.0	1380.8	1404.5	1397.0	1397.0
35°	1326.5	1323.5	1346.9	1337.5	1337.5
37.5°	1265.1	1262.4	1283.6	1272.3	1268.6
40°	1220.0	1218.5	1237.3	1224.7	1224.7
42.5°	1174.9	1173.4	1189.6	1174.6	1174.6
45°	1105.7	1102.6	1113.5	1099.4	1096.3
47.5°	1030.2	1027.1	1034.0	1018.6	1017.1
50°	978.8	975.8	978.8	964.7	963.2
52.5°	926.2	920.7	921.2	907.1	906.8
55°	845.7	835.0	834.8	822.2	822.2
57.5°	760.5	746.4	747.7	737.0	735.5
60°	701.6	686.3	687.5	678.1	676.6
62.5°	644.0	626.2	629.9	619.2	618.9
65°	548.2	535.9	537.2	532.5	532.5
67.5°	456.1	444.7	452.9	449.2	448.9
70°	388.4	380.7	391.5	391.5	390.0
72.5°	325.8	325.5	338.9	338.9	339.9
75°	236.5	247.2	261.5	263.1	263.1
77.5°	157.9	176.9	192.6	193.3	192.9
80°	112.8	134.2	148.8	151.9	150.3
82.5°	76.4	99.1	111.2	114.3	112.8
85°	34.5	52.8	62.6	64.2	62.6
87.5°	10.7	22.9	28.8	29.1	26.6
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)