

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: P564344

Luminaire Tested: **SQ4-PR1-125U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564344  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

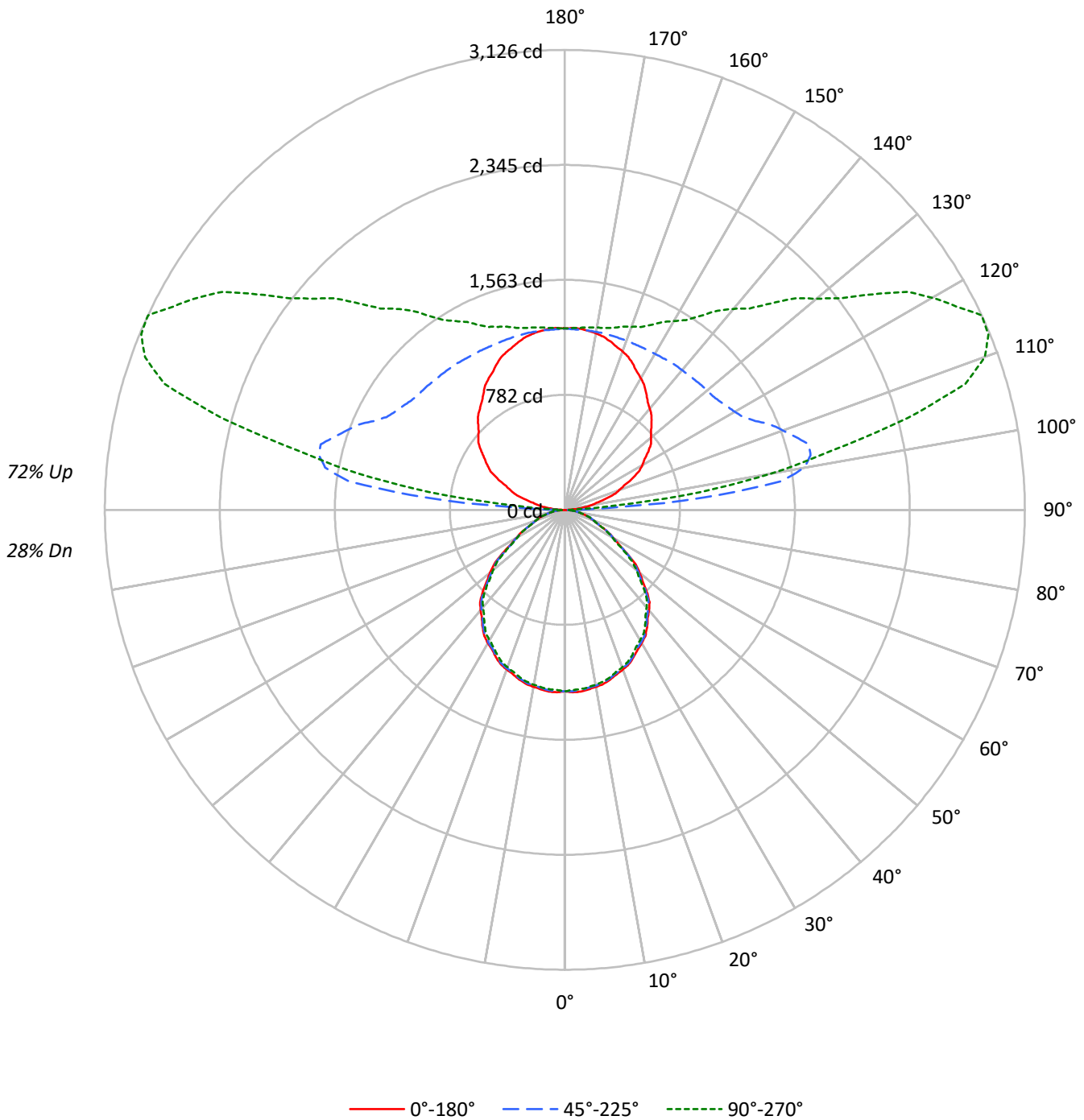
Lumens per Lamp: N/A  
Luminaire Lumens: 11043.4 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

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

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5668
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5631	5592	5528
30°	5570	5530	5451
35°	5487	5440	5362
40°	5363	5305	5209
45°	5143	5053	4950
50°	4759	4644	4553
55°	4153	4059	3974
60°	3499	3471	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2690
80°	2513	2540	2513
85°	2027	2249	2249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	1.1
10°-20°	333.8	3.0
20°-30°	503.5	4.6
30°-40°	599.9	5.4
40°-50°	591.4	5.4
50°-60°	452.0	4.1
60°-70°	279.7	2.5
70°-80°	158.9	1.4
80°-90°	51.2	0.5
90°-100°	576.6	5.2
100°-110°	1553.1	14.1
110°-120°	1629.9	14.8
120°-130°	1322.7	12.0
130°-140°	1037.3	9.4
140°-150°	796.4	7.2
150°-160°	572.6	5.2
160°-170°	349.8	3.2
170°-180°	118.0	1.1
0°-30°	953.9	8.6
0°-40°	1553.8	14.1
0°-60°	2597.2	23.5
0°-90°	3086.9	28.0
90°-120°	3759.6	34.0
90°-150°	6916.0	62.6
90°-180°	7956.0	72.0
0°-180°	11043.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1240	1226	1230	1226	1224	118
15°	1193	1181	1186	1182	1180	337
25°	1106	1093	1099	1087	1086	509
35°	974	963	966	953	952	608
45°	788	778	775	761	759	604
55°	516	508	505	496	494	463
65°	277	275	278	276	276	281
75°	150	150	150	151	151	158
85°	38	40	42	42	42	45
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°	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1241.3	1230.5	1233.7	1231.0	1225.2
5°	1240.0	1226.5	1230.5	1226.2	1224.1
7.5°	1230.5	1217.2	1221.1	1216.9	1215.6
10°	1222.0	1209.5	1213.5	1209.2	1207.1
12.5°	1212.6	1199.3	1204.1	1199.0	1196.9
15°	1193.3	1180.8	1185.9	1181.6	1179.5
17.5°	1172.0	1158.7	1163.8	1158.8	1156.1
20°	1155.0	1142.6	1147.6	1140.1	1139.1
22.5°	1136.3	1123.9	1128.9	1118.9	1118.7
25°	1106.2	1092.7	1098.7	1087.0	1086.0
27.5°	1070.2	1057.8	1062.8	1050.9	1049.6
30°	1045.6	1033.1	1038.2	1025.4	1023.3
32.5°	1017.5	1005.9	1010.1	997.3	996.1
35°	974.4	963.0	965.9	953.1	952.1
37.5°	925.3	914.9	916.6	902.5	901.5
40°	890.5	880.1	880.9	866.0	865.0
42.5°	852.2	841.8	840.9	826.0	825.0
45°	788.4	778.1	774.6	760.8	758.7
47.5°	715.8	705.4	699.0	687.7	686.2
50°	663.1	652.7	647.1	637.5	634.4
52.5°	606.1	595.7	591.0	582.2	579.1
55°	516.4	508.1	504.7	496.2	494.1
57.5°	431.2	425.6	424.6	416.3	415.5
60°	379.3	376.2	376.2	368.7	368.7
62.5°	335.1	332.9	334.5	329.6	328.8
65°	277.3	275.3	278.4	276.3	276.3
67.5°	231.6	231.6	233.6	232.7	232.7
70°	206.1	206.1	207.2	207.2	207.2
72.5°	183.2	182.4	185.1	185.1	184.3
75°	149.8	149.8	149.8	150.9	150.9
77.5°	116.7	116.9	117.7	117.5	116.7
80°	94.6	95.6	95.6	94.6	94.6
82.5°	72.5	73.5	73.5	73.3	72.5
85°	38.3	40.3	42.5	42.5	42.5
87.5°	11.7	16.2	20.8	21.1	20.2
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)