

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: P563786

Luminaire Tested: **SQ4-PP3-150U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563786  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

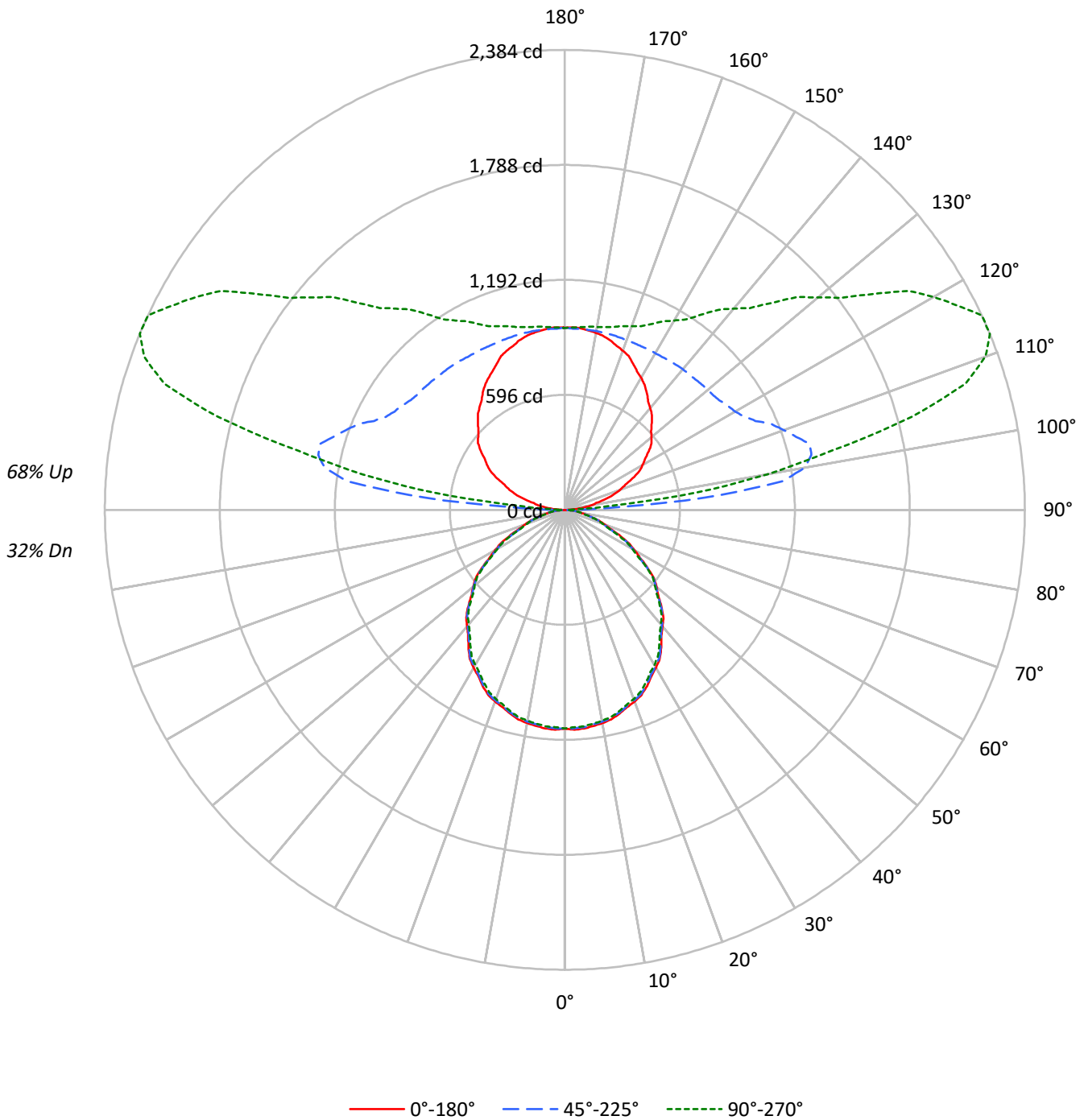
Lumens per Lamp: N/A  
Luminaire Lumens: 8988.6 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 63.5  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

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

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10474	10437
10°	10520	10446	10399
15°	10450	10393	10337
20°	10381	10323	10244
25°	10257	10187	10085
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9432	9323
45°	9231	9167	9076
50°	8901	8843	8757
55°	8440	8327	8265
60°	7684	7462	7427
65°	6768	6486	6464
70°	5843	5603	5603
75°	5030	4959	4887
80°	4436	4490	4383
85°	3472	3790	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.2
10°-20°	306.1	3.4
20°-30°	458.5	5.1
30°-40°	537.9	6.0
40°-50°	539.5	6.0
50°-60°	460.3	5.1
60°-70°	300.2	3.3
70°-80°	150.6	1.7
80°-90°	43.7	0.5
90°-100°	438.6	4.9
100°-110°	1185.8	13.2
110°-120°	1246.8	13.9
120°-130°	1012.7	11.3
130°-140°	794.4	8.8
140°-150°	609.7	6.8
150°-160°	438.5	4.9
160°-170°	267.9	3.0
170°-180°	90.3	1.0
0°-30°	871.9	9.7
0°-40°	1409.8	15.7
0°-60°	2409.6	26.8
0°-90°	2904.0	32.3
90°-120°	2871.2	31.9
90°-150°	5287.9	58.8
90°-180°	6085.0	67.7
0°-180°	8988.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1138	1127	1131	1127	1127	108
15°	1094	1083	1088	1084	1082	309
25°	1008	996	1001	992	991	463
35°	870	862	864	855	854	544
45°	708	703	703	696	696	545
55°	525	523	518	515	514	466
65°	310	304	297	295	296	309
75°	141	141	139	138	137	153
85°	33	36	36	36	36	39
90°	2	6	13	14	13	6
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	<i>1133.8</i>
2.5°	1141.0	1131.7	1133.8	1132.1	<i>1127.5</i>
5°	1137.8	1127.1	1130.9	1126.9	<i>1126.9</i>
7.5°	1130.1	1118.4	1122.1	1118.1	<i>1117.9</i>
10°	1122.9	1111.3	1115.0	1111.0	<i>1110.0</i>
12.5°	1112.6	1100.9	1105.4	1100.6	<i>1100.5</i>
15°	1094.1	1083.4	1088.1	1084.1	<i>1082.2</i>
17.5°	1073.2	1061.6	1067.3	1061.7	<i>1060.9</i>
20°	1057.3	1045.7	1051.4	1043.4	<i>1043.4</i>
22.5°	1038.2	1026.6	1033.1	1022.7	<i>1022.7</i>
25°	1007.6	996.0	1000.7	991.7	<i>990.7</i>
27.5°	971.3	959.8	964.7	954.6	<i>954.4</i>
30°	945.0	934.3	940.1	929.1	<i>928.1</i>
32.5°	916.4	906.5	910.7	899.7	<i>898.7</i>
35°	870.5	861.8	864.5	854.6	<i>853.6</i>
37.5°	822.2	813.3	816.4	807.9	<i>807.5</i>
40°	788.0	782.2	783.1	776.1	<i>774.1</i>
42.5°	756.2	749.6	750.5	743.5	<i>743.1</i>
45°	707.5	702.7	702.6	695.6	<i>695.6</i>
47.5°	655.9	652.2	651.1	645.3	<i>645.1</i>
50°	620.1	617.2	616.1	611.1	<i>610.1</i>
52.5°	582.7	581.4	578.0	573.8	<i>573.6</i>
55°	524.7	522.7	517.7	514.7	<i>513.8</i>
57.5°	461.7	457.8	452.1	447.8	<i>448.6</i>
60°	416.4	412.5	404.4	402.5	<i>402.5</i>
62.5°	372.6	368.0	359.9	357.2	<i>358.7</i>
65°	310.0	304.2	297.1	295.2	<i>296.1</i>
67.5°	253.2	248.0	240.3	240.3	<i>239.5</i>
70°	216.6	213.7	207.7	207.7	<i>207.7</i>
72.5°	184.0	182.7	178.3	178.3	<i>177.5</i>
75°	141.1	141.1	139.1	138.1	<i>137.1</i>
77.5°	105.7	106.1	105.1	104.1	<i>102.4</i>
80°	83.5	85.4	84.5	83.5	<i>82.5</i>
82.5°	62.8	64.7	64.6	62.8	<i>62.6</i>
85°	32.8	35.7	35.8	35.8	<i>35.8</i>
87.5°	9.2	13.1	15.4	15.6	<i>16.2</i>
90°	2.0	6.0	13.2	14.2	<i>13.2</i>
92.5°	28.9	105.1	207.4	90.0	<i>65.2</i>
95°	68.1	238.9	729.4	377.5	<i>224.5</i>
97.5°	109.3	274.0	1136.9	940.9	<i>691.0</i>
100°	140.2	288.2	1263.7	1317.9	<i>1065.6</i>
102.5°	168.6	307.9	1308.4	1603.8	<i>1415.1</i>
105°	220.4	340.6	1315.5	1940.5	<i>1861.0</i>
107.5°	268.4	378.0	1258.0	2150.6	<i>2177.0</i>
110°	305.8	405.1	1206.8	2207.0	<i>2319.2</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)