

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: P523951

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523951  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

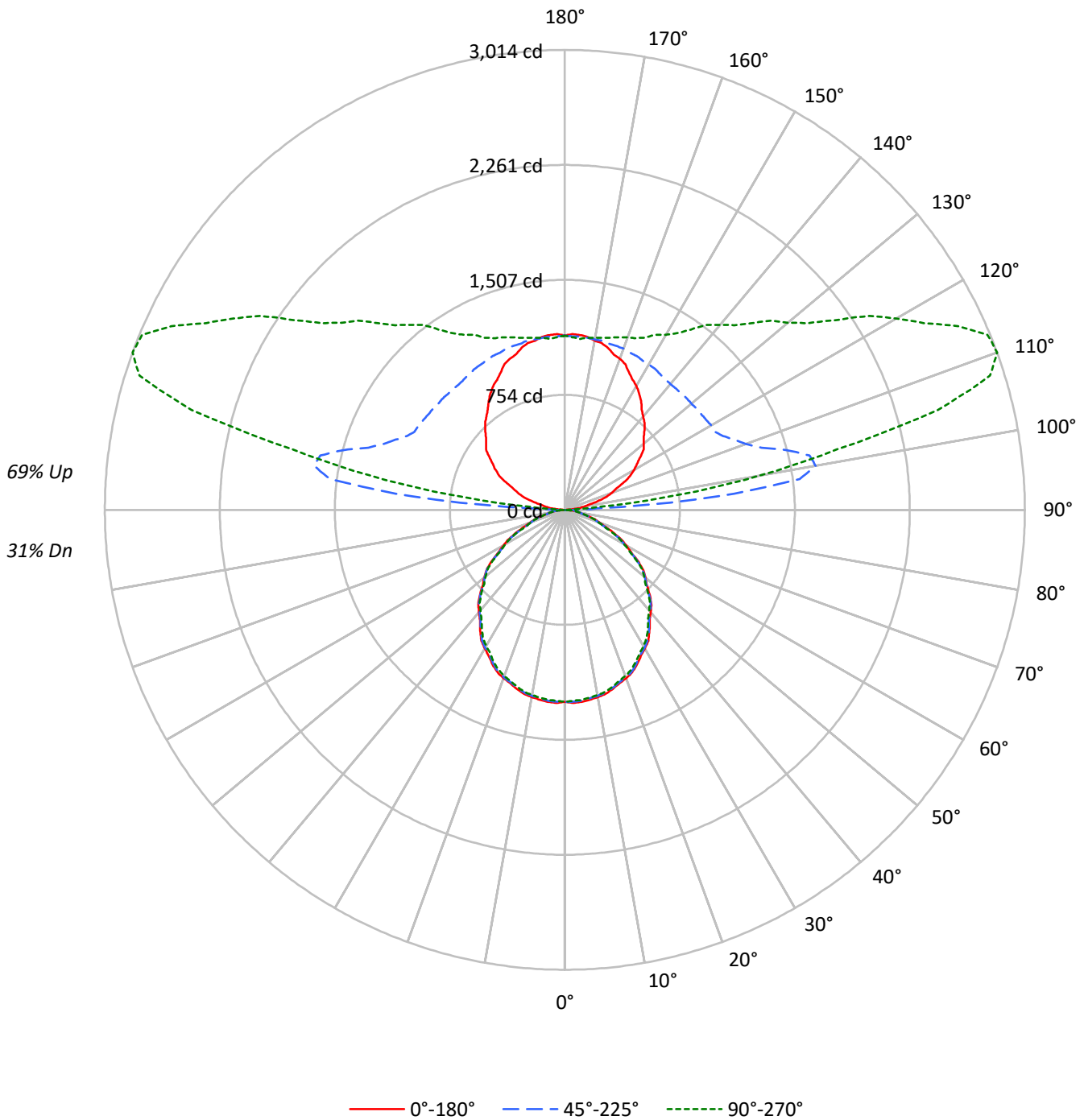
Lumens per Lamp: N/A  
Luminaire Lumens: 10311.2 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 82.5  
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	49	43	44	39	36	34	31	28	24	22	21	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	11614	11614	11614
5°	11700	11628	11587
10°	11680	11597	11546
15°	11602	11539	11476
20°	11526	11461	11375
25°	11388	11310	11198
30°	11178	11119	10978
35°	10886	10811	10674
40°	10537	10471	10352
45°	10249	10177	10077
50°	9882	9818	9723
55°	9370	9246	9175
60°	8531	8285	8245
65°	7514	7202	7178
70°	6488	6221	6221
75°	5586	5508	5429
80°	4925	4984	4867
85°	3853	4203	4203



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.0	1.2
10°-20°	339.9	3.3
20°-30°	509.1	4.9
30°-40°	597.2	5.8
40°-50°	599.0	5.8
50°-60°	511.0	5.0
60°-70°	333.3	3.2
70°-80°	167.2	1.6
80°-90°	46.3	0.4
90°-100°	520.1	5.0
100°-110°	1479.7	14.4
110°-120°	1417.7	13.7
120°-130°	1122.1	10.9
130°-140°	900.6	8.7
140°-150°	705.1	6.8
150°-160°	515.9	5.0
160°-170°	319.6	3.1
170°-180°	108.4	1.1
0°-30°	968.0	9.4
0°-40°	1565.2	15.2
0°-60°	2675.2	25.9
0°-90°	3222.0	31.2
90°-120°	3417.5	33.1
90°-150°	6145.3	59.6
90°-180°	7089.0	68.8
0°-180°	10311.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1263	1251	1256	1251	1251	120
15°	1215	1203	1208	1204	1202	343
25°	1119	1106	1111	1101	1100	514
35°	966	957	960	949	948	604
45°	786	780	780	772	772	605
55°	582	580	575	572	570	518
65°	344	338	330	328	329	344
75°	157	157	154	153	152	170
85°	36	40	40	40	40	43
90°	0	0	0	0	0	4
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1258.8	1258.8	1258.8	1258.8	1258.8
2.5°	1266.8	1256.4	1258.8	1257.0	1251.8
5°	1263.3	1251.4	1255.5	1251.1	1251.1
7.5°	1254.7	1241.7	1245.8	1241.4	1241.2
10°	1246.7	1233.8	1237.9	1233.4	1232.4
12.5°	1235.2	1222.3	1227.3	1222.0	1221.8
15°	1214.7	1202.9	1208.1	1203.6	1201.5
17.5°	1191.5	1178.6	1184.9	1178.7	1177.9
20°	1173.9	1161.0	1167.3	1158.5	1158.5
22.5°	1152.7	1139.8	1147.0	1135.5	1135.5
25°	1118.7	1105.8	1111.0	1101.1	1100.0
27.5°	1078.4	1065.6	1071.1	1059.8	1059.6
30°	1049.2	1037.4	1043.7	1031.5	1030.5
32.5°	1017.5	1006.4	1011.1	998.9	997.8
35°	966.5	956.8	959.9	948.8	947.7
37.5°	912.9	902.9	906.5	897.0	896.5
40°	874.9	868.4	869.4	861.6	859.5
42.5°	839.6	832.3	833.2	825.5	825.0
45°	785.5	780.1	780.0	772.3	772.3
47.5°	728.2	724.1	722.9	716.5	716.3
50°	688.5	685.2	684.0	678.5	677.4
52.5°	647.0	645.5	641.7	637.0	636.8
55°	582.5	580.4	574.8	571.5	570.4
57.5°	512.6	508.3	502.0	497.2	498.0
60°	462.3	458.0	449.0	446.8	446.8
62.5°	413.7	408.6	399.6	396.6	398.3
65°	344.2	337.8	329.9	327.7	328.8
67.5°	281.1	275.3	266.8	266.8	265.9
70°	240.5	237.3	230.6	230.6	230.6
72.5°	204.3	202.8	197.9	197.9	197.0
75°	156.7	156.7	154.5	153.3	152.3
77.5°	117.4	117.8	116.7	115.6	113.6
80°	92.7	94.8	93.8	92.7	91.6
82.5°	69.7	71.9	71.7	69.7	69.5
85°	36.4	39.6	39.7	39.7	39.7
87.5°	9.7	13.2	14.1	14.1	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	<i>2998.1</i>
115°	427.4	516.5	1143.4	2422.3	<i>2844.5</i>
117.5°	481.7	565.3	1110.0	2202.9	<i>2650.1</i>
120°	525.1	595.1	1106.6	2077.5	<i>2506.0</i>
122.5°	559.8	629.8	1097.9	1967.4	<i>2365.4</i>
125°	603.2	669.0	1091.4	1811.1	<i>2165.4</i>
127.5°	650.5	712.0	1087.9	1717.7	<i>2009.6</i>
130°	674.8	736.3	1082.7	1652.6	<i>1907.2</i>
132.5°	700.8	760.6	1082.7	1601.8	<i>1836.0</i>
135°	737.7	799.2	1078.4	1529.8	<i>1729.3</i>
137.5°	772.4	832.2	1077.9	1468.9	<i>1641.2</i>
140°	798.5	860.0	1076.2	1418.4	<i>1583.9</i>
142.5°	828.0	879.3	1081.4	1378.1	<i>1526.6</i>
145°	870.1	914.6	1087.0	1324.1	<i>1442.9</i>
147.5°	906.1	949.4	1096.6	1269.5	<i>1372.1</i>
150°	937.3	967.0	1100.1	1251.4	<i>1323.5</i>
152.5°	961.6	993.0	1103.5	1227.0	<i>1294.0</i>
155°	993.7	1017.1	1113.1	1196.6	<i>1245.4</i>
157.5°	1033.7	1047.7	1115.2	1182.9	<i>1217.7</i>
160°	1054.5	1065.1	1123.9	1172.3	<i>1202.0</i>
162.5°	1066.6	1078.9	1125.7	1163.5	<i>1186.4</i>
165°	1097.9	1102.1	1126.1	1150.3	<i>1167.3</i>
167.5°	1119.1	1115.3	1136.1	1147.1	<i>1153.9</i>
170°	1126.1	1124.0	1132.6	1135.0	<i>1143.4</i>
172.5°	1141.7	1134.5	1137.8	1131.4	<i>1138.2</i>
175°	1150.0	1143.6	1139.1	1132.4	<i>1123.9</i>
177.5°	1153.4	1143.2	1137.8	1130.9	<i>1132.6</i>
180°	1141.3	1141.3	1141.3	1141.3	<i>1141.3</i>

(END OF REPORT)