

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: P562106

Luminaire Tested: **SQ4-PR1-150U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562106  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-150U-075D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9942.3 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

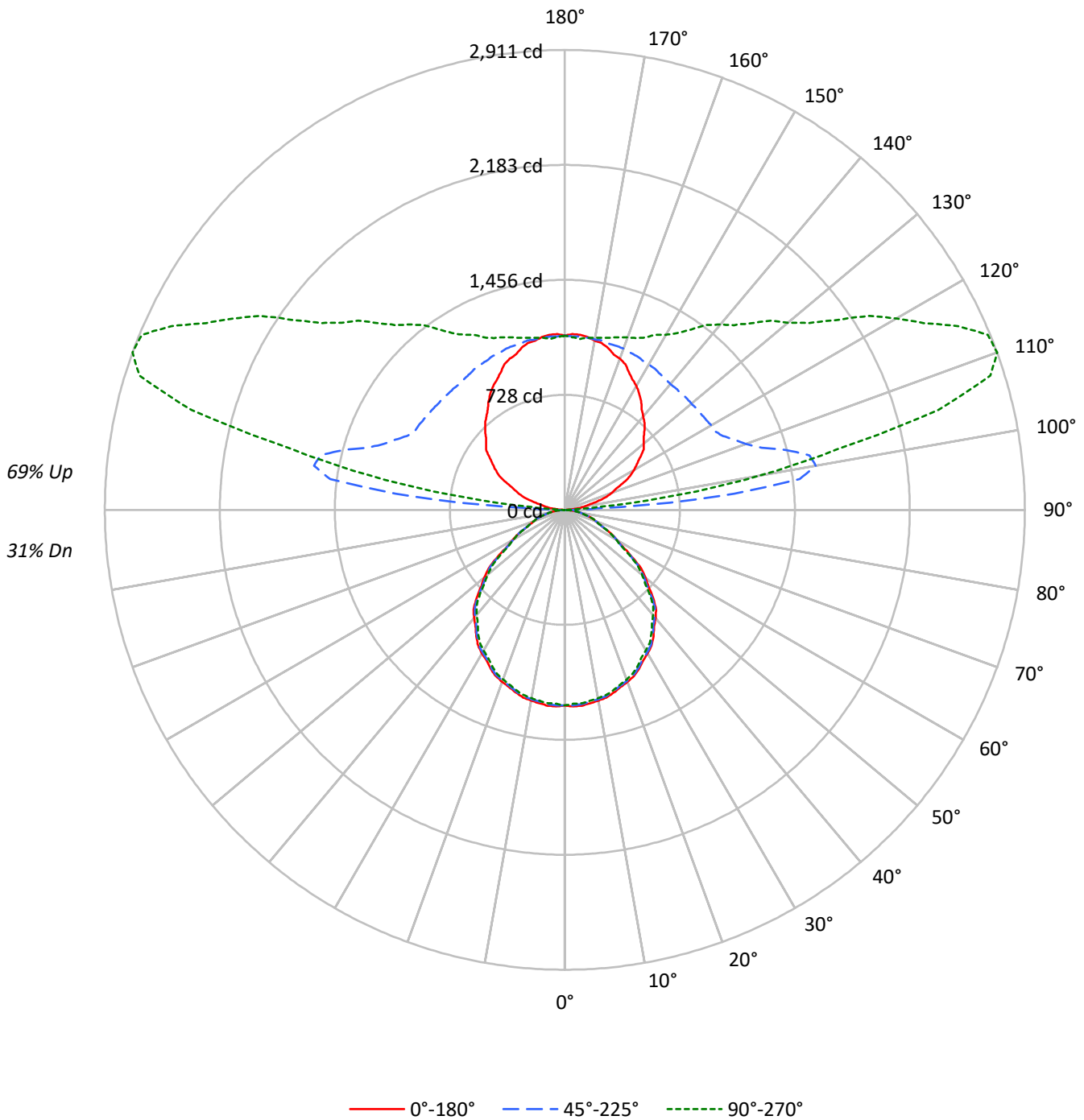
Input Watts (W): 83  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	46	42	38	35	33	27	26	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	65	54	47	41	59	49	43	37	40	35	31	30	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	18	16	14	11
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	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°	11419	11419	11419
5°	11522	11433	11374
10°	11485	11405	11345
15°	11435	11364	11302
20°	11377	11304	11220
25°	11297	11221	11091
30°	11176	11096	10937
35°	11011	10914	10759
40°	10759	10643	10452
45°	10321	10139	9931
50°	9548	9318	9135
55°	8334	8146	7974
60°	7023	6964	6826
65°	6073	6097	6052
70°	5579	5608	5608
75°	5358	5358	5397
80°	5042	5095	5042
85°	4065	4510	4510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	1.2
10°-20°	334.9	3.4
20°-30°	505.1	5.1
30°-40°	601.8	6.1
40°-50°	593.3	6.0
50°-60°	453.5	4.6
60°-70°	280.6	2.8
70°-80°	159.4	1.6
80°-90°	48.5	0.5
90°-100°	502.4	5.1
100°-110°	1429.4	14.4
110°-120°	1369.6	13.8
120°-130°	1083.9	10.9
130°-140°	870.0	8.8
140°-150°	681.1	6.9
150°-160°	498.4	5.0
160°-170°	308.7	3.1
170°-180°	104.8	1.1
0°-30°	957.0	9.6
0°-40°	1558.8	15.7
0°-60°	2605.6	26.2
0°-90°	3094.0	31.1
90°-120°	3301.4	33.2
90°-150°	5936.5	59.7
90°-180°	6848.0	68.9
0°-180°	9942.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1244	1230	1234	1230	1228	118
15°	1197	1185	1190	1185	1183	338
25°	1110	1096	1102	1090	1090	511
35°	978	966	969	956	955	610
45°	791	781	777	763	761	606
55°	518	510	506	498	496	464
65°	278	276	279	277	277	282
75°	150	150	150	151	151	159
85°	38	40	43	43	43	45
90°	0	0	0	0	0	4
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1237.7	1237.7	1237.7	1237.7	1237.7
2.5°	1245.3	1234.5	1237.7	1235.0	1229.1
5°	1244.1	1230.5	1234.5	1230.2	1228.1
7.5°	1234.5	1221.1	1225.1	1220.8	1219.5
10°	1225.9	1213.4	1217.4	1213.1	1211.0
12.5°	1216.6	1203.2	1208.0	1202.9	1200.8
15°	1197.2	1184.6	1189.7	1185.4	1183.3
17.5°	1175.8	1162.5	1167.5	1162.6	1159.8
20°	1158.8	1146.3	1151.3	1143.8	1142.8
22.5°	1140.0	1127.5	1132.6	1122.5	1122.3
25°	1109.7	1096.2	1102.3	1090.5	1089.5
27.5°	1073.7	1061.2	1066.2	1054.3	1053.0
30°	1049.0	1036.5	1041.5	1028.7	1026.6
32.5°	1020.8	1009.2	1013.4	1000.5	999.3
35°	977.6	966.1	969.0	956.2	955.2
37.5°	928.3	917.9	919.6	905.5	904.4
40°	893.3	882.9	883.7	868.8	867.8
42.5°	855.0	844.5	843.7	828.7	827.7
45°	791.0	780.6	777.1	763.2	761.1
47.5°	718.1	707.7	701.2	689.9	688.4
50°	665.2	654.8	649.2	639.5	636.4
52.5°	608.1	597.6	592.9	584.1	581.0
55°	518.1	509.8	506.4	497.8	495.7
57.5°	432.6	427.0	426.0	417.7	416.8
60°	380.6	377.4	377.4	369.9	369.9
62.5°	336.2	333.9	335.6	330.7	329.8
65°	278.2	276.1	279.3	277.2	277.2
67.5°	232.4	232.4	234.3	233.5	233.5
70°	206.8	206.8	207.9	207.9	207.9
72.5°	183.8	183.0	185.7	185.7	184.8
75°	150.3	150.3	150.3	151.4	151.4
77.5°	117.1	117.3	118.1	117.9	117.1
80°	94.9	95.9	95.9	94.9	94.9
82.5°	72.7	73.7	73.8	73.5	72.7
85°	38.4	40.5	42.6	42.6	42.6
87.5°	11.1	14.4	17.1	17.0	16.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)