

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: P523938

Luminaire Tested: **SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523938  
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-050D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 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: 9240.6 lumens  
Efficiency: N/A  
Efficacy: 129.6 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

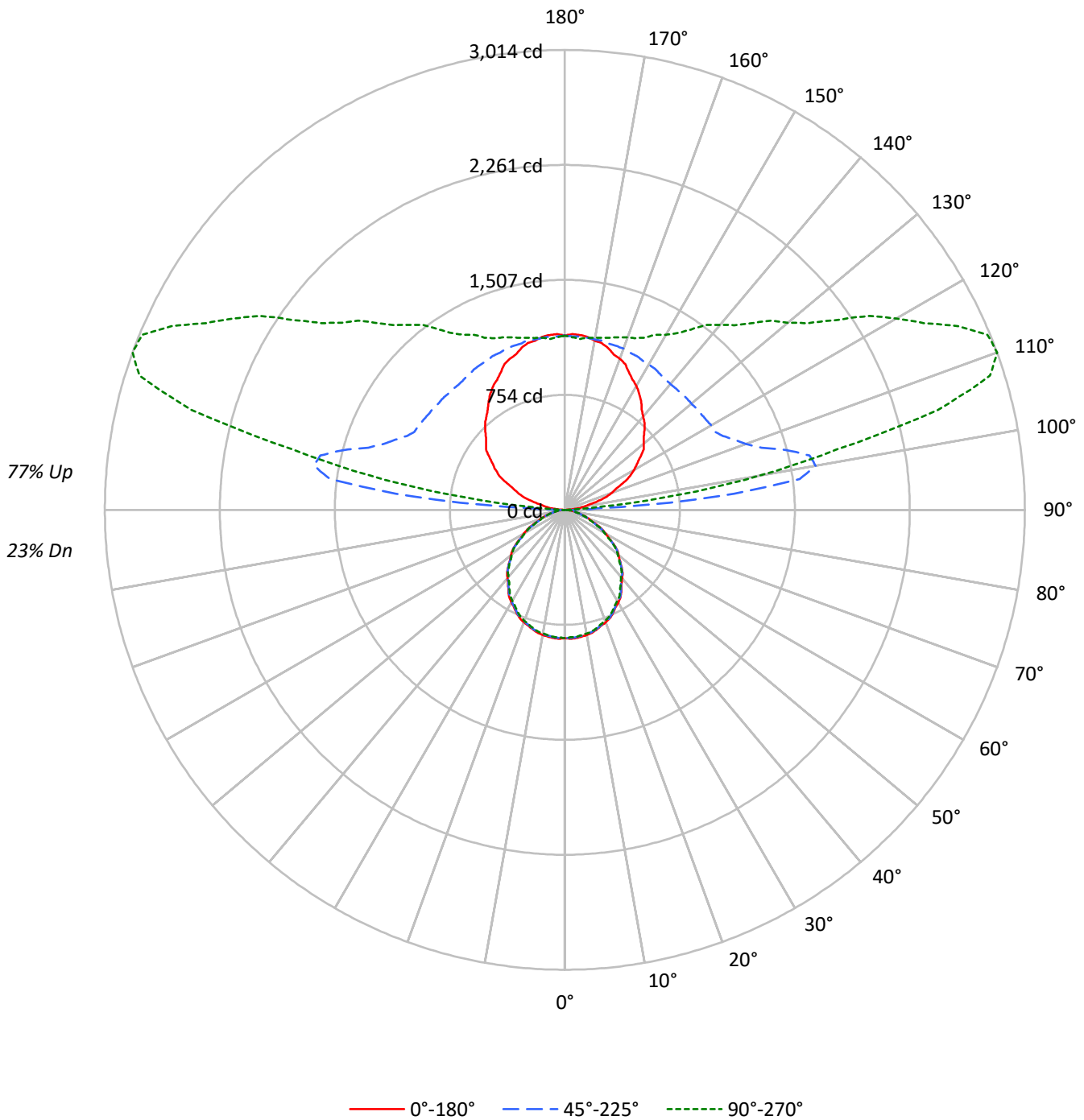
Input Watts (W): 71.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	68	68	68	49	49	49	32	32	32	23
1	92	88	84	81	82	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23	17
3	76	67	60	55	68	60	54	50	46	42	39	34	31	29	22	21	19	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	39	57	47	41	36	37	32	29	27	24	21	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	10	8	6

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

	0°	45°	90°
0°	7756	7756	7756
5°	7812	7765	7737
10°	7799	7744	7709
15°	7747	7705	7663
20°	7696	7652	7594
25°	7604	7552	7477
30°	7464	7424	7331
35°	7268	7219	7127
40°	7036	6992	6912
45°	6844	6795	6729
50°	6598	6555	6492
55°	6257	6174	6127
60°	5696	5532	5506
65°	5017	4809	4792
70°	4332	4154	4154
75°	3729	3675	3625
80°	3289	3326	3246
85°	2572	2805	2805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	0.9
10°-20°	227.0	2.5
20°-30°	339.9	3.7
30°-40°	398.7	4.3
40°-50°	400.0	4.3
50°-60°	341.2	3.7
60°-70°	222.5	2.4
70°-80°	111.6	1.2
80°-90°	30.9	0.3
90°-100°	520.1	5.6
100°-110°	1479.7	16.0
110°-120°	1417.7	15.3
120°-130°	1122.1	12.1
130°-140°	900.6	9.7
140°-150°	705.1	7.6
150°-160°	515.9	5.6
160°-170°	319.6	3.5
170°-180°	108.4	1.2
0°-30°	646.4	7.0
0°-40°	1045.1	11.3
0°-60°	1786.3	19.3
0°-90°	2151.4	23.3
90°-120°	3417.5	37.0
90°-150°	6145.3	66.5
90°-180°	7089.0	76.7
0°-180°	9240.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	844	836	838	835	835	80
15°	811	803	807	804	802	229
25°	747	738	742	735	734	343
35°	645	639	641	634	633	403
45°	524	521	521	516	516	404
55°	389	388	384	382	381	346
65°	230	226	220	219	220	229
75°	105	105	103	102	102	113
85°	24	26	26	26	26	29
90°	0	0	0	0	0	3
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°	840.6	840.6	840.6	840.6	840.6
2.5°	845.9	838.9	840.6	839.3	835.8
5°	843.5	835.6	838.4	835.4	835.4
7.5°	837.8	829.1	831.9	828.9	828.8
10°	832.5	823.8	826.6	823.6	822.9
12.5°	824.8	816.2	819.5	816.0	815.8
15°	811.1	803.2	806.7	803.7	802.3
17.5°	795.6	787.0	791.2	787.1	786.5
20°	783.8	775.2	779.4	773.5	773.5
22.5°	769.7	761.0	765.9	758.2	758.2
25°	747.0	738.4	741.8	735.2	734.5
27.5°	720.0	711.5	715.2	707.7	707.5
30°	700.6	692.7	696.9	688.8	688.1
32.5°	679.4	672.0	675.1	667.0	666.3
35°	645.3	638.9	640.9	633.5	632.8
37.5°	609.5	602.9	605.3	598.9	598.6
40°	584.2	579.9	580.5	575.3	573.9
42.5°	560.6	555.7	556.3	551.2	550.9
45°	524.5	520.9	520.8	515.7	515.7
47.5°	486.2	483.5	482.7	478.4	478.3
50°	459.7	457.5	456.7	453.0	452.3
52.5°	432.0	431.0	428.5	425.4	425.2
55°	389.0	387.5	383.8	381.6	380.9
57.5°	342.3	339.4	335.2	332.0	332.5
60°	308.7	305.8	299.8	298.4	298.4
62.5°	276.3	272.8	266.8	264.8	265.9
65°	229.8	225.5	220.3	218.8	219.5
67.5°	187.7	183.8	178.1	178.1	177.5
70°	160.6	158.4	154.0	154.0	154.0
72.5°	136.4	135.4	132.2	132.1	131.6
75°	104.6	104.6	103.1	102.4	101.7
77.5°	78.4	78.7	77.9	77.2	75.9
80°	61.9	63.3	62.6	61.9	61.1
82.5°	46.6	48.0	47.9	46.6	46.4
85°	24.3	26.5	26.5	26.5	26.5
87.5°	6.5	8.8	9.4	9.4	10.0
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	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)