

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: P562093

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562093  
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-050D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 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**

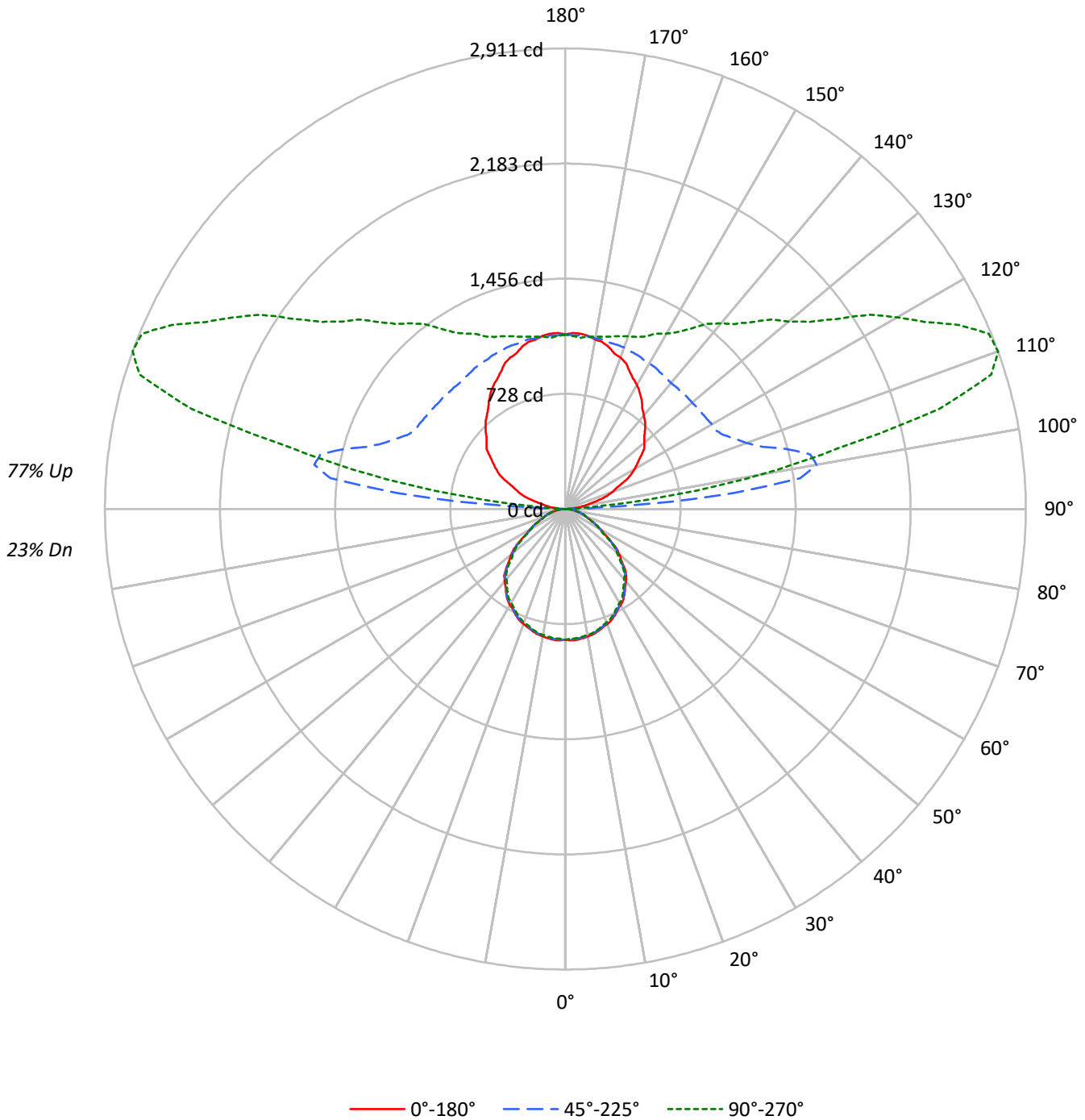
Lumens per Lamp: N/A  
Luminaire Lumens: 8914.3 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	64	60	53	49	47	38	36	34	25	24	23	17
3	76	68	61	55	68	60	54	50	47	43	39	34	31	29	22	21	19	14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	8
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6

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

	0°	45°	90°
0°	7625	7625	7625
5°	7693	7634	7594
10°	7669	7616	7575
15°	7636	7588	7547
20°	7596	7548	7492
25°	7543	7492	7406
30°	7462	7408	7303
35°	7351	7287	7184
40°	7184	7107	6978
45°	6892	6771	6631
50°	6376	6222	6100
55°	5564	5438	5324
60°	4689	4650	4558
65°	4056	4071	4041
70°	3725	3744	3744
75°	3579	3579	3604
80°	3369	3406	3369
85°	2710	3017	3017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	0.9
10°-20°	223.6	2.5
20°-30°	337.3	3.8
30°-40°	401.8	4.5
40°-50°	396.2	4.4
50°-60°	302.8	3.4
60°-70°	187.4	2.1
70°-80°	106.4	1.2
80°-90°	32.4	0.4
90°-100°	502.4	5.6
100°-110°	1429.4	16.0
110°-120°	1369.6	15.4
120°-130°	1083.9	12.2
130°-140°	870.0	9.8
140°-150°	681.1	7.6
150°-160°	498.4	5.6
160°-170°	308.7	3.5
170°-180°	104.8	1.2
0°-30°	639.0	7.2
0°-40°	1040.8	11.7
0°-60°	1739.8	19.5
0°-90°	2066.0	23.2
90°-120°	3301.4	37.0
90°-150°	5936.5	66.6
90°-180°	6848.0	76.8
0°-180°	8914.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	831	822	824	821	820	79
15°	799	791	794	792	790	226
25°	741	732	736	728	728	341
35°	653	645	647	638	638	407
45°	528	521	519	510	508	405
55°	346	340	338	332	331	310
65°	186	184	186	185	185	188
75°	100	100	100	101	101	106
85°	26	27	28	28	28	30
90°	0	0	0	0	0	3
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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CATALOG NUMBER: SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	826.4	826.4	826.4	826.4	826.4
2.5°	831.5	824.3	826.4	824.6	820.7
5°	830.7	821.6	824.3	821.4	820.0
7.5°	824.3	815.4	818.0	815.1	814.3
10°	818.6	810.2	812.9	810.0	808.6
12.5°	812.3	803.4	806.6	803.2	801.8
15°	799.4	791.0	794.4	791.5	790.1
17.5°	785.1	776.2	779.6	776.3	774.5
20°	773.7	765.4	768.8	763.8	763.1
22.5°	761.2	752.9	756.2	749.5	749.4
25°	741.0	731.9	736.0	728.2	727.5
27.5°	716.9	708.6	712.0	704.0	703.1
30°	700.4	692.1	695.4	686.9	685.5
32.5°	681.6	673.8	676.6	668.1	667.3
35°	652.7	645.1	647.0	638.5	637.8
37.5°	619.8	612.9	614.0	604.6	603.9
40°	596.5	589.5	590.1	580.1	579.4
42.5°	570.9	563.9	563.3	553.3	552.7
45°	528.2	521.2	518.9	509.6	508.2
47.5°	479.5	472.5	468.2	460.7	459.7
50°	444.2	437.2	433.5	427.0	425.0
52.5°	406.0	399.1	395.9	390.0	387.9
55°	345.9	340.4	338.1	332.4	331.0
57.5°	288.9	285.1	284.4	278.9	278.3
60°	254.1	252.0	252.0	247.0	247.0
62.5°	224.5	223.0	224.1	220.8	220.2
65°	185.8	184.4	186.5	185.1	185.1
67.5°	155.2	155.2	156.5	155.9	155.9
70°	138.1	138.1	138.8	138.8	138.8
72.5°	122.7	122.2	124.0	124.0	123.4
75°	100.4	100.4	100.4	101.1	101.1
77.5°	78.2	78.3	78.9	78.7	78.2
80°	63.4	64.0	64.1	63.4	63.4
82.5°	48.5	49.2	49.3	49.1	48.5
85°	25.6	27.0	28.5	28.5	28.5
87.5°	7.4	9.6	11.4	11.4	10.8
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)