

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: P564440

Luminaire Tested: **SQ4-PR1-150U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564440  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

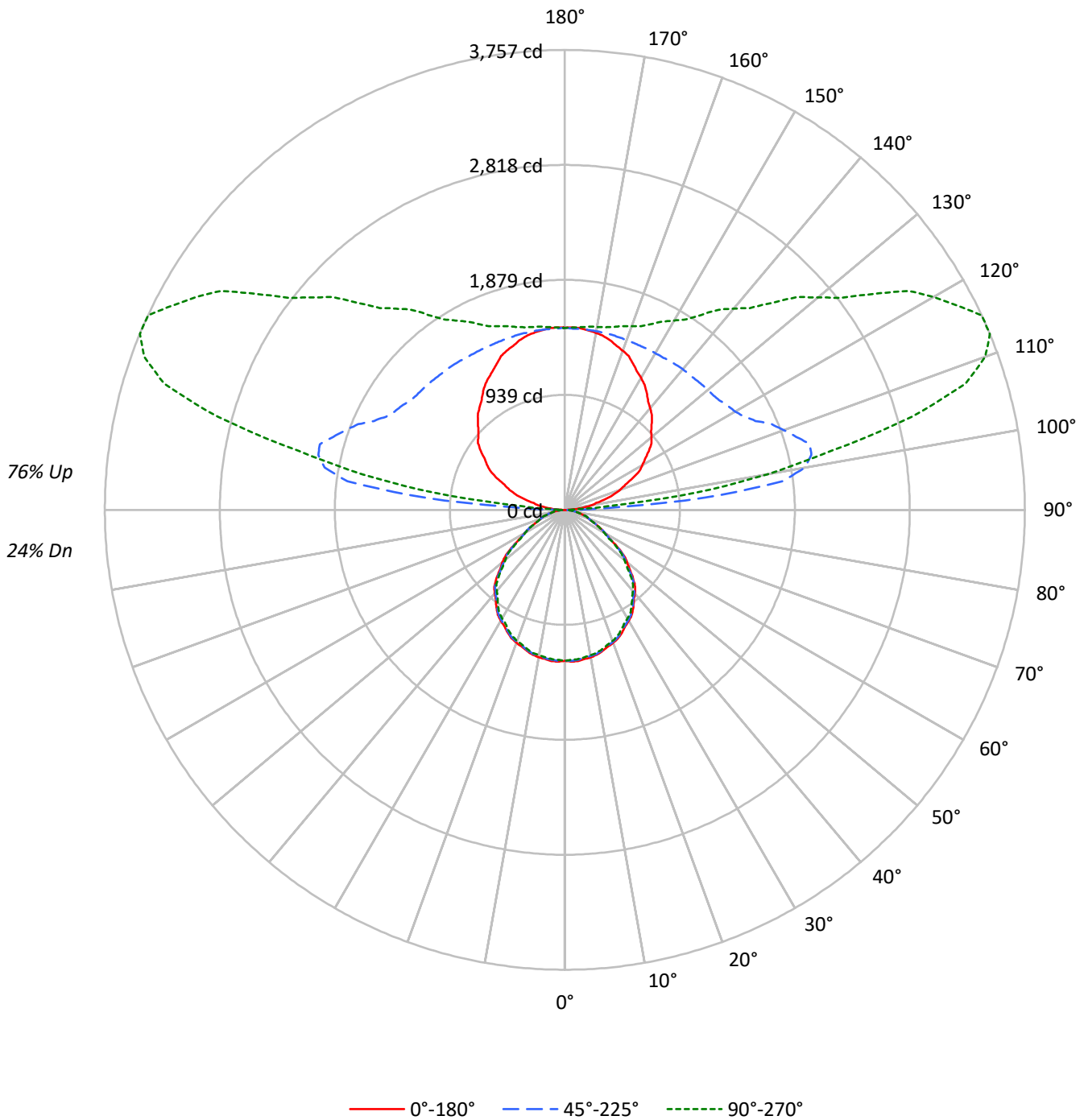
Lumens per Lamp: N/A  
Luminaire Lumens: 12674.3 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 111.9  
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	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

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

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5668
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5631	5592	5528
30°	5570	5530	5451
35°	5487	5440	5362
40°	5363	5305	5209
45°	5143	5053	4950
50°	4759	4644	4553
55°	4153	4059	3974
60°	3499	3471	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2690
80°	2513	2540	2513
85°	2027	2249	2249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	0.9
10°-20°	333.8	2.6
20°-30°	503.5	4.0
30°-40°	599.9	4.7
40°-50°	591.4	4.7
50°-60°	452.0	3.6
60°-70°	279.7	2.2
70°-80°	158.9	1.3
80°-90°	51.4	0.4
90°-100°	691.1	5.5
100°-110°	1868.5	14.7
110°-120°	1964.4	15.5
120°-130°	1595.6	12.6
130°-140°	1251.7	9.9
140°-150°	960.7	7.6
150°-160°	690.9	5.5
160°-170°	422.1	3.3
170°-180°	142.3	1.1
0°-30°	953.9	7.5
0°-40°	1553.8	12.3
0°-60°	2597.2	20.5
0°-90°	3087.2	24.4
90°-120°	4524.0	35.7
90°-150°	8331.9	65.7
90°-180°	9587.0	75.6
0°-180°	12674.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1240	1226	1230	1226	1224	118
15°	1193	1181	1186	1182	1180	337
25°	1106	1093	1099	1087	1086	509
35°	974	963	966	953	952	608
45°	788	778	775	761	759	604
55°	516	508	505	496	494	463
65°	277	275	278	276	276	281
75°	150	150	150	151	151	158
85°	38	40	42	42	42	45
90°	3	10	21	22	21	9
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1241.3	1230.5	1233.7	1231.0	1225.2
5°	1240.0	1226.5	1230.5	1226.2	1224.1
7.5°	1230.5	1217.2	1221.1	1216.9	1215.6
10°	1222.0	1209.5	1213.5	1209.2	1207.1
12.5°	1212.6	1199.3	1204.1	1199.0	1196.9
15°	1193.3	1180.8	1185.9	1181.6	1179.5
17.5°	1172.0	1158.7	1163.8	1158.8	1156.1
20°	1155.0	1142.6	1147.6	1140.1	1139.1
22.5°	1136.3	1123.9	1128.9	1118.9	1118.7
25°	1106.2	1092.7	1098.7	1087.0	1086.0
27.5°	1070.2	1057.8	1062.8	1050.9	1049.6
30°	1045.6	1033.1	1038.2	1025.4	1023.3
32.5°	1017.5	1005.9	1010.1	997.3	996.1
35°	974.4	963.0	965.9	953.1	952.1
37.5°	925.3	914.9	916.6	902.5	901.5
40°	890.5	880.1	880.9	866.0	865.0
42.5°	852.2	841.8	840.9	826.0	825.0
45°	788.4	778.1	774.6	760.8	758.7
47.5°	715.8	705.4	699.0	687.7	686.2
50°	663.1	652.7	647.1	637.5	634.4
52.5°	606.1	595.7	591.0	582.2	579.1
55°	516.4	508.1	504.7	496.2	494.1
57.5°	431.2	425.6	424.6	416.3	415.5
60°	379.3	376.2	376.2	368.7	368.7
62.5°	335.1	332.9	334.5	329.6	328.8
65°	277.3	275.3	278.4	276.3	276.3
67.5°	231.6	231.6	233.6	232.7	232.7
70°	206.1	206.1	207.2	207.2	207.2
72.5°	183.2	182.4	185.1	185.1	184.3
75°	149.8	149.8	149.8	150.9	150.9
77.5°	116.7	116.9	117.7	117.5	116.7
80°	94.6	95.6	95.6	94.6	94.6
82.5°	72.5	73.5	73.5	73.3	72.5
85°	38.3	40.3	42.5	42.5	42.5
87.5°	11.7	16.3	21.2	21.5	20.3
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)