

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: P562479

Luminaire Tested: **SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562479  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

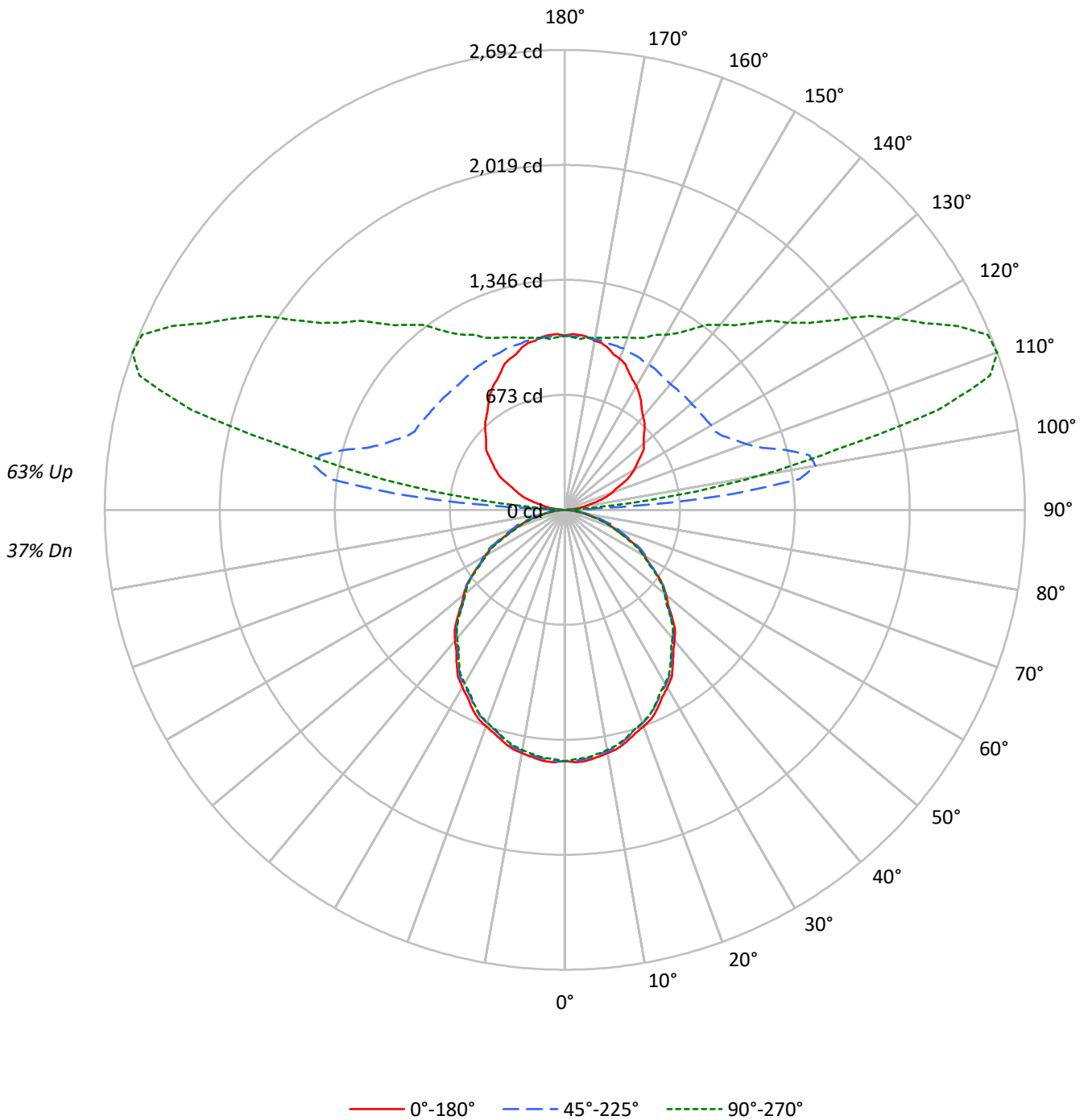
Lumens per Lamp: N/A  
Luminaire Lumens: 10073.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 93.3  
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	38	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	45°	90°
0°	13569	13569	13569
5°	13657	13549	13488
10°	13548	13438	13365
15°	13404	13256	13206
20°	13244	13041	13015
25°	13059	12822	12782
30°	12783	12589	12507
35°	12420	12244	12172
40°	12032	11845	11798
45°	11564	11412	11362
50°	11085	10992	10917
55°	10568	10568	10401
60°	9922	10114	9756
65°	9080	9534	8855
70°	8004	8772	7796
75°	6837	7853	6652
80°	5303	6610	5372
85°	3430	5071	4531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	1.4
10°-20°	391.0	3.9
20°-30°	580.0	5.8
30°-40°	678.6	6.7
40°-50°	675.6	6.7
50°-60°	583.4	5.8
60°-70°	419.9	4.2
70°-80°	220.2	2.2
80°-90°	54.6	0.5
90°-100°	464.5	4.6
100°-110°	1321.7	13.1
110°-120°	1266.3	12.6
120°-130°	1002.2	9.9
130°-140°	804.5	8.0
140°-150°	629.8	6.3
150°-160°	460.8	4.6
160°-170°	285.4	2.8
170°-180°	96.9	1.0
0°-30°	1109.5	11.0
0°-40°	1788.1	17.7
0°-60°	3047.1	30.2
0°-90°	3741.8	37.1
90°-120°	3052.5	30.3
90°-150°	5489.0	54.5
90°-180°	6332.0	62.9
0°-180°	10073.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1475	1458	1463	1459	1456	140
15°	1403	1386	1388	1385	1383	396
25°	1283	1261	1260	1252	1256	590
35°	1103	1088	1087	1077	1081	689
45°	886	879	875	872	871	684
55°	657	656	657	648	647	586
65°	416	429	437	420	406	412
75°	192	210	220	206	187	206
85°	32	42	48	45	43	43
90°	0	0	0	0	0	3
95°	50	200	899	311	192	58
105°	205	312	1347	2379	2262	217
115°	382	461	1021	2164	2541	376
125°	539	598	975	1618	1934	482
135°	659	714	963	1366	1545	508
145°	777	817	971	1183	1289	485
155°	888	908	994	1069	1112	410
165°	981	984	1006	1028	1043	276
175°	1027	1022	1018	1012	1004	97
180°	1019	1019	1019	1019	1019	

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CATALOG NUMBER: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1470.7	1470.7	1470.7	1470.7	1470.7
2.5°	1479.0	1466.8	1470.7	1467.4	1460.3
5°	1474.6	1458.1	1462.9	1459.0	1456.4
7.5°	1459.5	1444.3	1447.9	1443.7	1442.2
10°	1446.1	1430.9	1434.4	1429.2	1426.6
12.5°	1430.5	1414.3	1417.8	1412.6	1411.1
15°	1403.3	1385.6	1387.8	1385.1	1382.6
17.5°	1371.7	1353.7	1354.1	1349.9	1349.4
20°	1348.9	1329.9	1328.2	1323.0	1325.6
22.5°	1324.0	1304.0	1302.2	1295.1	1298.6
25°	1282.8	1261.3	1259.5	1251.8	1255.6
27.5°	1235.1	1213.8	1213.9	1203.1	1207.1
30°	1199.9	1179.6	1181.7	1168.9	1174.0
32.5°	1162.6	1144.3	1145.5	1132.6	1137.7
35°	1102.7	1087.5	1087.1	1076.9	1080.7
37.5°	1041.5	1028.1	1026.0	1020.0	1021.1
40°	999.0	987.6	983.5	979.6	979.6
42.5°	954.5	944.1	939.9	937.1	936.1
45°	886.3	878.7	874.6	872.0	870.8
47.5°	818.9	811.8	808.3	806.5	805.2
50°	772.3	767.2	765.8	761.9	760.6
52.5°	725.6	722.6	721.2	716.3	715.0
55°	657.0	655.7	657.0	647.9	646.6
57.5°	585.4	587.5	591.6	579.4	576.4
60°	537.7	542.8	548.1	533.7	528.7
62.5°	489.0	497.1	504.6	488.1	481.0
65°	415.9	428.6	436.7	419.5	405.6
67.5°	345.5	361.2	370.8	352.3	336.6
70°	296.7	314.5	325.2	306.7	289.0
72.5°	254.2	274.0	282.7	265.2	247.5
75°	191.8	209.5	220.3	205.6	186.6
77.5°	136.1	152.8	161.7	148.9	133.2
80°	99.8	117.5	124.4	113.7	101.1
82.5°	70.7	85.4	90.2	83.8	75.2
85°	32.4	42.5	47.9	45.3	42.8
87.5°	8.3	15.4	19.7	19.7	20.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.5	82.2	190.7	55.5	41.9
95°	50.4	200.1	899.2	311.2	191.9
97.5°	92.6	234.4	1384.9	991.0	679.1
100°	122.1	254.7	1490.3	1509.6	1162.8
102.5°	154.7	276.7	1467.1	1932.3	1629.5
105°	205.4	311.5	1346.9	2379.1	2261.7
107.5°	257.0	352.1	1206.6	2505.1	2609.7
110°	292.6	381.7	1126.0	2456.9	2691.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	326.7	411.3	1071.7	2342.9	2677.9
115°	381.8	461.4	1021.3	2163.6	2540.7
117.5°	430.2	504.9	991.5	1967.6	2367.1
120°	469.0	531.5	988.4	1855.6	2238.4
122.5°	500.0	562.5	980.6	1757.3	2112.8
125°	538.8	597.5	974.8	1617.7	1934.1
127.5°	581.0	636.0	971.7	1534.2	1795.0
130°	602.7	657.7	967.1	1476.1	1703.5
132.5°	626.0	679.4	967.1	1430.7	1639.9
135°	658.9	713.9	963.2	1366.5	1544.6
137.5°	689.9	743.4	962.8	1312.0	1465.9
140°	713.2	768.1	961.3	1266.9	1414.7
142.5°	739.5	785.4	965.9	1230.9	1363.6
145°	777.1	816.9	970.9	1182.7	1288.8
147.5°	809.3	848.0	979.5	1133.9	1225.6
150°	837.2	863.7	982.6	1117.8	1182.2
152.5°	858.9	887.0	985.7	1095.9	1155.8
155°	887.6	908.5	994.2	1068.8	1112.4
157.5°	923.3	935.8	996.1	1056.5	1087.6
160°	941.9	951.3	1003.9	1047.1	1073.7
162.5°	952.7	963.7	1005.4	1039.2	1059.7
165°	980.6	984.4	1005.8	1027.5	1042.6
167.5°	999.6	996.2	1014.7	1024.6	1030.6
170°	1005.8	1003.9	1011.6	1013.7	1021.3
172.5°	1019.8	1013.3	1016.3	1010.6	1016.7
175°	1027.1	1021.5	1017.5	1011.5	1003.9
177.5°	1030.2	1021.1	1016.3	1010.1	1011.6
180°	1019.4	1019.4	1019.4	1019.4	1019.4

(END OF REPORT)