

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: P565150

Luminaire Tested: **SQ4-PW1-150U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565150  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

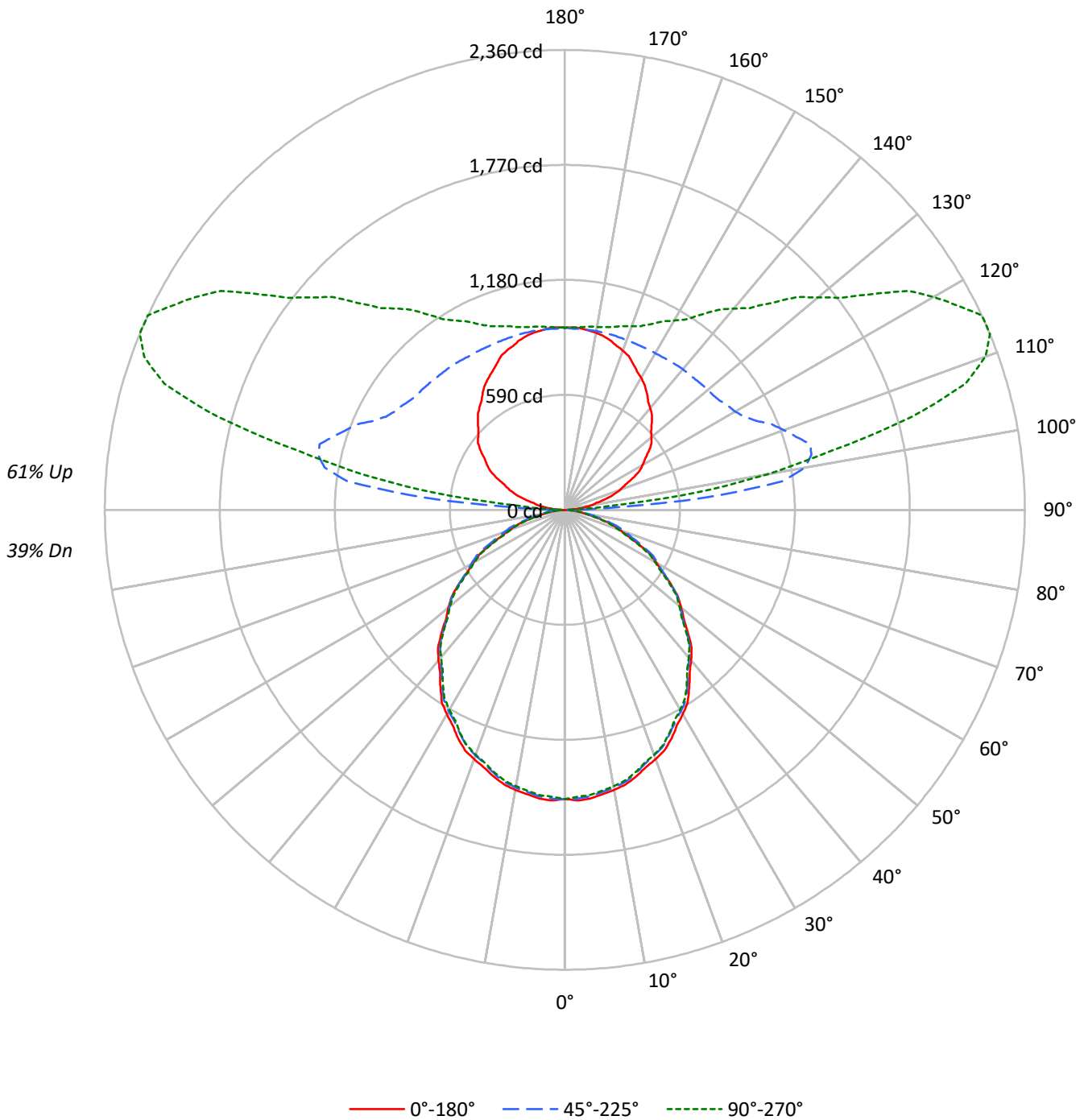
Lumens per Lamp: N/A  
Luminaire Lumens: 9801.7 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.3  
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	41	38	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

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

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13612
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11186	11091	11016
55°	10663	10663	10496
60°	10012	10206	9844
65°	9162	9619	8935
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.4
10°-20°	394.5	4.0
20°-30°	585.2	6.0
30°-40°	684.8	7.0
40°-50°	681.7	7.0
50°-60°	588.7	6.0
60°-70°	423.7	4.3
70°-80°	222.2	2.3
80°-90°	57.0	0.6
90°-100°	434.2	4.4
100°-110°	1174.0	12.0
110°-120°	1234.3	12.6
120°-130°	1002.6	10.2
130°-140°	786.5	8.0
140°-150°	603.6	6.2
150°-160°	434.1	4.4
160°-170°	265.2	2.7
170°-180°	89.4	0.9
0°-30°	1119.5	11.4
0°-40°	1804.3	18.4
0°-60°	3074.7	31.4
0°-90°	3777.7	38.5
90°-120°	2842.6	29.0
90°-150°	5235.3	53.4
90°-180°	6024.0	61.5
0°-180°	9801.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1488	1471	1476	1472	1470	141
15°	1416	1398	1400	1398	1395	399
25°	1294	1273	1271	1263	1267	595
35°	1113	1097	1097	1087	1090	696
45°	894	887	883	880	879	690
55°	663	662	663	654	652	591
65°	420	432	441	423	409	416
75°	194	211	222	208	188	207
85°	33	43	48	46	43	43
90°	2	6	13	14	13	6
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1484.0	1484.0	1484.0	1484.0	1484.0
2.5°	1492.4	1480.1	1484.0	1480.7	1473.6
5°	1488.0	1471.3	1476.2	1472.2	1469.7
7.5°	1472.8	1457.5	1461.0	1456.8	1455.3
10°	1459.2	1443.9	1447.4	1442.1	1439.6
12.5°	1443.5	1427.1	1430.7	1425.4	1423.9
15°	1416.1	1398.2	1400.4	1397.7	1395.1
17.5°	1384.1	1366.0	1366.4	1362.2	1361.7
20°	1361.1	1342.0	1340.2	1335.0	1337.6
22.5°	1336.0	1315.8	1314.1	1306.8	1310.4
25°	1294.5	1272.7	1270.9	1263.2	1267.0
27.5°	1246.3	1224.9	1224.9	1214.0	1218.1
30°	1210.8	1190.3	1192.5	1179.5	1184.6
32.5°	1173.1	1154.7	1155.9	1142.9	1148.0
35°	1112.7	1097.4	1097.0	1086.6	1090.5
37.5°	1051.0	1037.4	1035.3	1029.3	1030.3
40°	1008.1	996.6	992.4	988.5	988.5
42.5°	963.1	952.6	948.5	945.6	944.6
45°	894.3	886.7	882.6	879.9	878.7
47.5°	826.4	819.2	815.6	813.8	812.5
50°	779.3	774.2	772.7	768.8	767.5
52.5°	732.2	729.1	727.8	722.8	721.5
55°	662.9	661.6	662.9	653.7	652.5
57.5°	590.7	592.8	597.0	584.7	581.6
60°	542.6	547.7	553.1	538.6	533.5
62.5°	493.5	501.6	509.2	492.5	485.4
65°	419.7	432.5	440.6	423.3	409.3
67.5°	348.6	364.4	374.2	355.5	339.7
70°	299.4	317.3	328.2	309.5	291.6
72.5°	256.5	276.5	285.3	267.6	249.7
75°	193.5	211.4	222.3	207.5	188.3
77.5°	137.3	154.2	163.2	150.3	134.4
80°	100.7	118.6	125.5	114.8	102.0
82.5°	71.4	86.2	91.0	84.5	75.8
85°	32.7	42.9	48.4	45.7	43.1
87.5°	8.8	16.7	22.5	22.7	23.5
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)