

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: P563134

Luminaire Tested: **SQ4-PC3-150U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563134  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-150U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

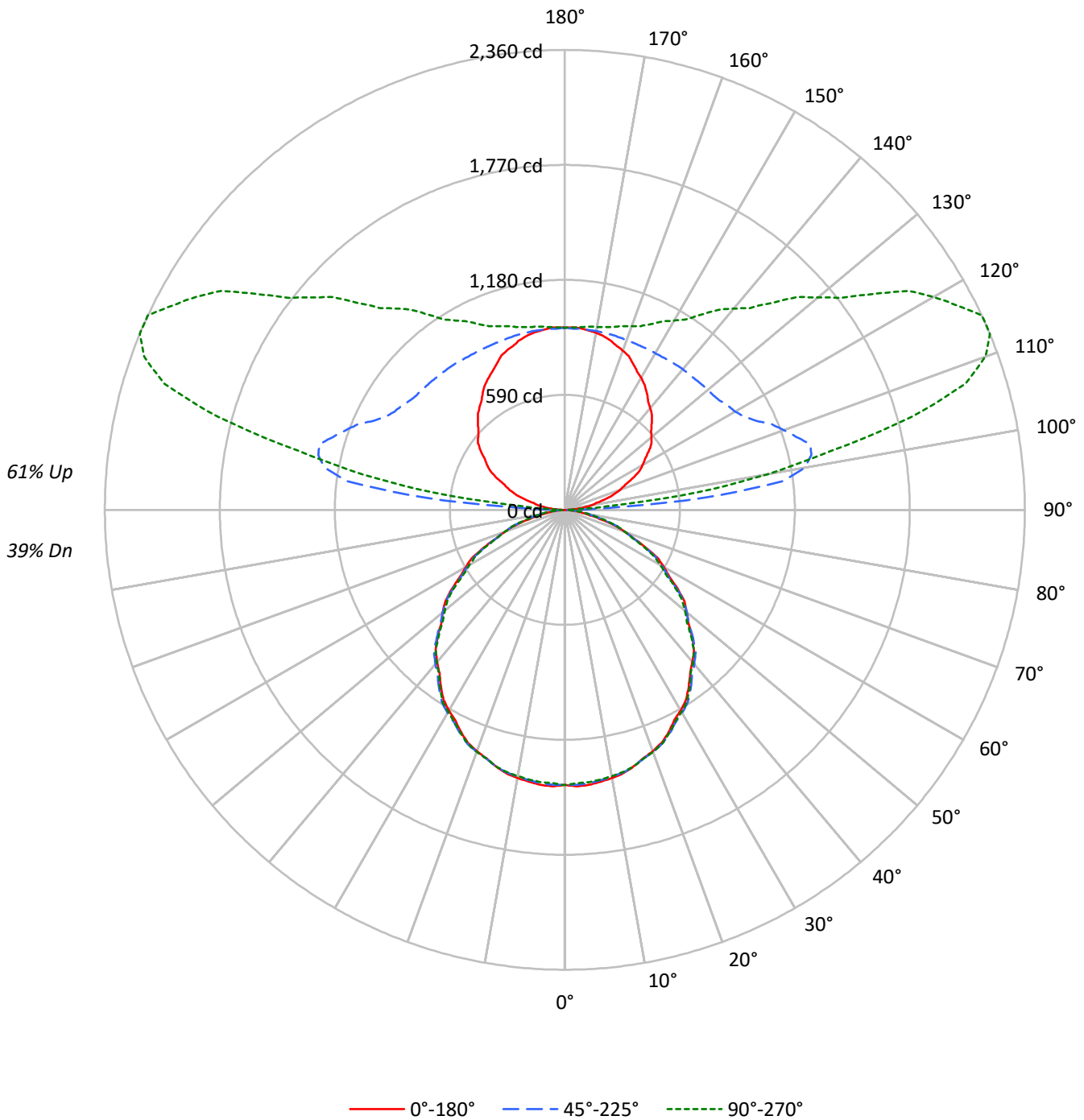
Lumens per Lamp: N/A  
Luminaire Lumens: 9879.9 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	13028	13028	13028
5°	13127	13042	12994
10°	13094	13034	12997
15°	13026	13026	13013
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12474	12665	12576
40°	12268	12440	12315
45°	12044	12131	11943
50°	11730	11730	11542
55°	11358	11210	11043
60°	10809	10592	10424
65°	9990	9791	9706
70°	8748	8818	8783
75°	7037	7785	7832
80°	5000	6599	6668
85°	3049	5536	5536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	1.4
10°-20°	383.5	3.9
20°-30°	580.8	5.9
30°-40°	696.3	7.0
40°-50°	710.0	7.2
50°-60°	619.8	6.3
60°-70°	443.7	4.5
70°-80°	228.5	2.3
80°-90°	59.7	0.6
90°-100°	434.2	4.4
100°-110°	1174.0	11.9
110°-120°	1234.3	12.5
120°-130°	1002.6	10.1
130°-140°	786.5	8.0
140°-150°	603.6	6.1
150°-160°	434.1	4.4
160°-170°	265.2	2.7
170°-180°	89.4	0.9
0°-30°	1097.9	11.1
0°-40°	1794.2	18.2
0°-60°	3123.9	31.6
0°-90°	3855.9	39.0
90°-120°	2842.6	28.8
90°-150°	5235.3	53.0
90°-180°	6024.0	61.0
0°-180°	9879.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1417	1403	1408	1404	1403	135
15°	1364	1352	1364	1364	1362	385
25°	1259	1250	1268	1264	1264	579
35°	1108	1105	1124	1117	1117	693
45°	923	921	930	918	915	711
55°	706	697	697	686	686	629
65°	458	447	448	445	445	453
75°	197	206	218	220	220	213
85°	29	44	52	54	52	39
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°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1420.5	1408.2	1412.1	1408.9	1403.8
5°	1417.4	1403.3	1408.2	1404.3	1403.0
7.5°	1407.2	1393.1	1399.6	1396.9	1395.7
10°	1397.7	1383.7	1391.2	1388.6	1387.3
12.5°	1385.2	1372.2	1380.7	1378.1	1377.9
15°	1363.7	1352.2	1363.7	1363.7	1362.4
17.5°	1336.8	1326.3	1338.6	1339.4	1338.6
20°	1318.0	1306.5	1321.9	1320.6	1321.9
22.5°	1295.0	1285.5	1302.0	1298.7	1299.9
25°	1259.1	1250.2	1268.3	1264.4	1264.4
27.5°	1216.8	1210.4	1230.1	1225.9	1225.9
30°	1188.5	1182.1	1202.9	1197.7	1197.7
32.5°	1157.2	1152.8	1172.6	1166.3	1166.3
35°	1107.5	1104.9	1124.5	1116.6	1116.6
37.5°	1056.2	1053.9	1071.6	1062.2	1059.1
40°	1018.6	1017.3	1032.9	1022.5	1022.5
42.5°	980.9	979.6	993.2	980.6	980.6
45°	923.1	920.6	929.7	917.8	915.3
47.5°	860.1	857.5	863.2	850.4	849.1
50°	817.2	814.6	817.2	805.4	804.1
52.5°	773.3	768.7	769.1	757.3	757.1
55°	706.1	697.1	696.9	686.5	686.5
57.5°	634.9	623.2	624.2	615.3	614.0
60°	585.8	573.0	574.0	566.1	564.9
62.5°	537.7	522.8	525.9	517.0	516.7
65°	457.6	447.4	448.5	444.6	444.6
67.5°	380.8	371.3	378.1	375.0	374.7
70°	324.3	317.9	326.9	326.9	325.6
72.5°	272.0	271.7	282.9	283.0	283.7
75°	197.4	206.4	218.4	219.7	219.7
77.5°	131.8	147.7	160.8	161.3	161.1
80°	94.1	112.0	124.2	126.8	125.5
82.5°	63.8	82.7	92.8	95.4	94.1
85°	28.8	44.1	52.3	53.6	52.3
87.5°	8.8	18.8	23.5	23.7	21.4
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)