

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: P563648

Luminaire Tested: **SQ4-PP3-100U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563648  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

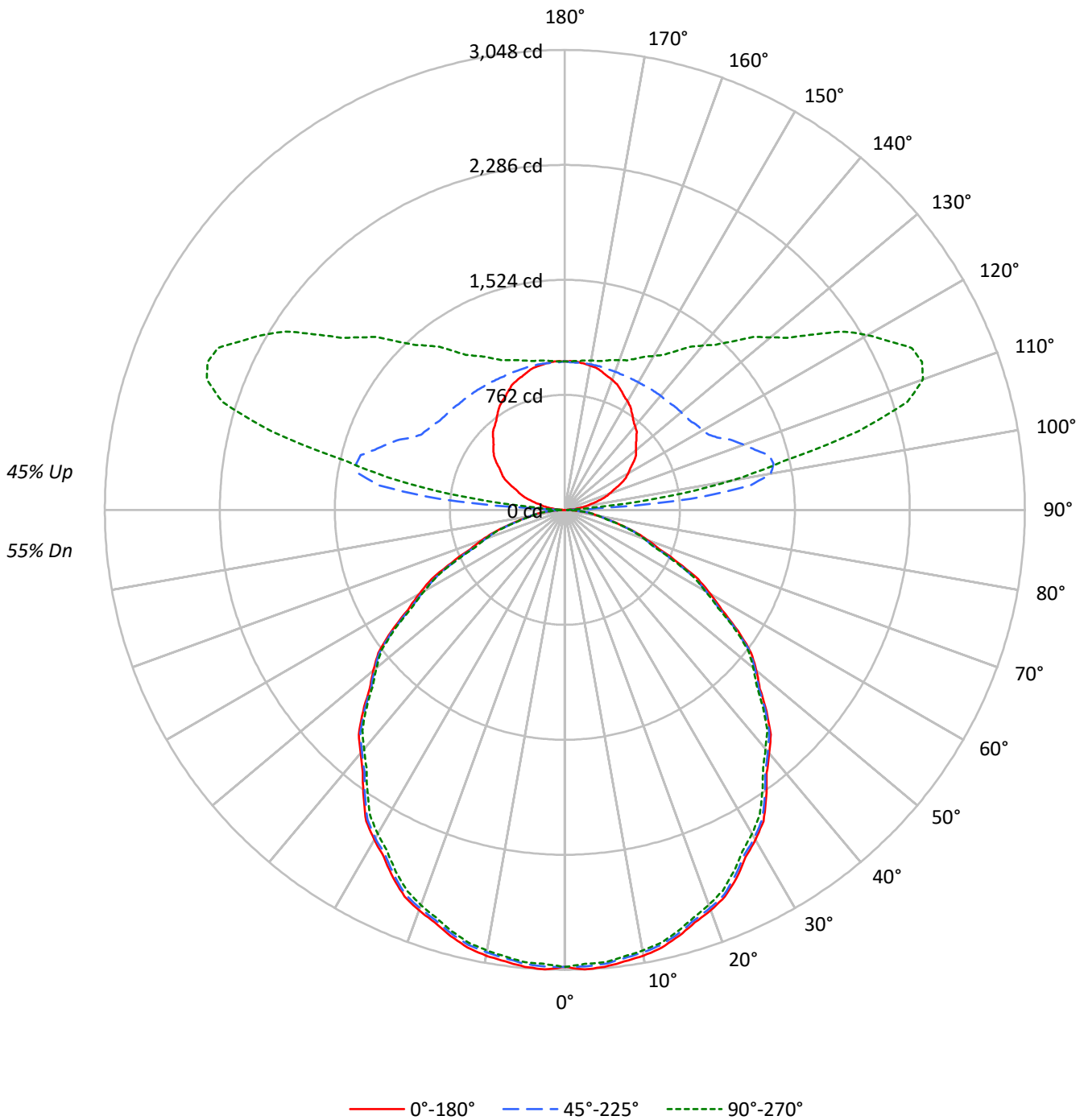
Lumens per Lamp: N/A  
Luminaire Lumens: 14147.3 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 140.6  
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	13974	13974	13974
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13789	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13008	12843
40°	12679	12599	12455
45°	12332	12245	12125
50°	11890	11814	11699
55°	11274	11125	11039
60°	10263	9970	9920
65°	9041	8665	8636
70°	7807	7484	7484
75°	6720	6625	6531
80°	5924	5996	5855
85°	4637	5060	5060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.4	2.0
10°-20°	817.9	5.8
20°-30°	1225.1	8.7
30°-40°	1437.0	10.2
40°-50°	1441.5	10.2
50°-60°	1229.7	8.7
60°-70°	802.0	5.7
70°-80°	402.4	2.8
80°-90°	113.4	0.8
90°-100°	460.7	3.3
100°-110°	1271.9	9.0
110°-120°	1311.7	9.3
120°-130°	1054.1	7.5
130°-140°	828.4	5.9
140°-150°	635.3	4.5
150°-160°	456.6	3.2
160°-170°	279.2	2.0
170°-180°	94.1	0.7
0°-30°	2329.5	16.5
0°-40°	3766.4	26.6
0°-60°	6437.6	45.5
0°-90°	7755.3	54.8
90°-120°	3044.3	21.5
90°-150°	5562.0	39.3
90°-180°	6392.0	45.2
0°-180°	14147.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3029	3029	3029	3029	3029	
5°	3040	3011	3021	3011	3011	289
15°	2923	2894	2907	2896	2891	825
25°	2692	2661	2674	2650	2647	1238
35°	2326	2302	2310	2283	2281	1453
45°	1890	1877	1877	1858	1858	1456
55°	1402	1397	1383	1375	1373	1246
65°	828	813	794	789	791	827
75°	377	377	372	369	366	409
85°	88	95	96	96	96	103
90°	3	6	13	14	16	8
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	3048.4	3023.5	3029.3	3024.7	3012.3
5°	3039.9	3011.3	3021.3	3010.7	3010.7
7.5°	3019.2	2988.0	2997.9	2987.3	2986.8
10°	3000.1	2968.9	2978.8	2968.2	2965.6
12.5°	2972.5	2941.3	2953.3	2940.6	2940.1
15°	2923.1	2894.5	2907.1	2896.4	2891.2
17.5°	2867.3	2836.2	2851.4	2836.5	2834.4
20°	2824.8	2793.7	2808.9	2787.7	2787.7
22.5°	2773.9	2742.7	2760.1	2732.5	2732.5
25°	2692.1	2660.9	2673.5	2649.6	2647.0
27.5°	2594.9	2564.3	2577.4	2550.3	2549.8
30°	2524.8	2496.3	2511.6	2482.3	2479.7
32.5°	2448.4	2421.9	2433.0	2403.7	2401.1
35°	2325.7	2302.4	2309.8	2283.2	2280.6
37.5°	2196.7	2172.8	2181.3	2158.4	2157.4
40°	2105.4	2089.8	2092.1	2073.4	2068.2
42.5°	2020.4	2002.7	2005.0	1986.4	1985.4
45°	1890.3	1877.3	1877.0	1858.5	1858.5
47.5°	1752.3	1742.4	1739.5	1724.1	1723.6
50°	1656.7	1648.9	1646.1	1632.7	1630.1
52.5°	1556.9	1553.2	1544.1	1532.9	1532.4
55°	1401.8	1396.6	1383.2	1375.2	1372.6
57.5°	1233.5	1223.1	1208.0	1196.4	1198.4
60°	1112.4	1102.0	1080.6	1075.2	1075.2
62.5°	995.6	983.1	961.6	954.3	958.4
65°	828.3	812.8	793.8	788.6	791.2
67.5°	676.5	662.5	642.0	641.9	639.8
70°	578.8	571.0	554.9	554.9	554.9
72.5°	491.7	488.1	476.3	476.2	474.2
75°	377.0	377.0	371.7	369.0	366.4
77.5°	282.5	283.5	280.9	278.1	273.5
80°	223.0	228.2	225.7	223.0	220.4
82.5°	167.8	173.0	172.6	167.8	167.3
85°	87.6	95.4	95.6	95.6	95.6
87.5°	24.0	32.9	36.5	36.9	39.3
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)