

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: P563333

Luminaire Tested: **SQ4-PP3-050U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563333  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

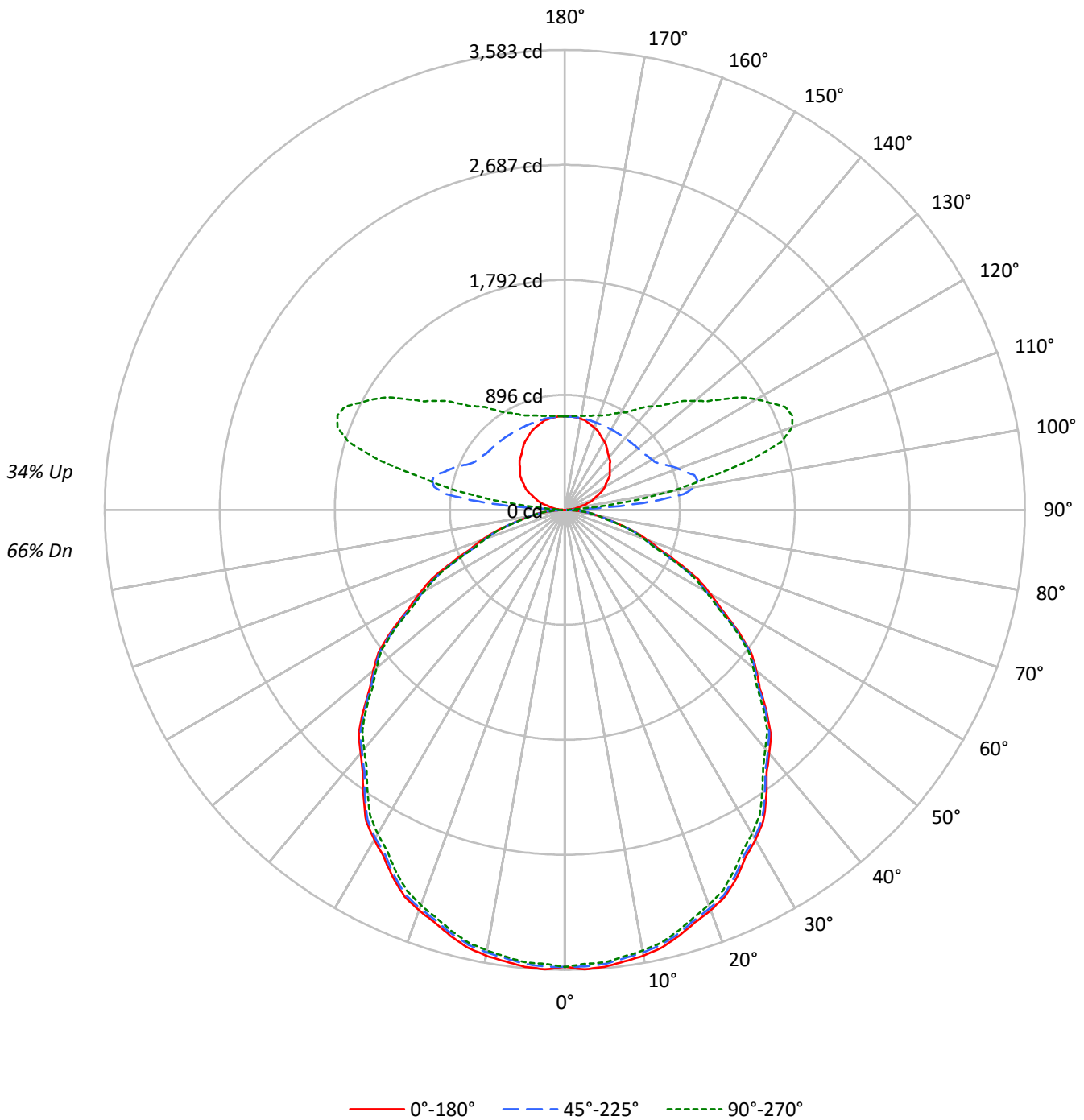
Lumens per Lamp: N/A  
Luminaire Lumens: 13871.4 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 134.4  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10263	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8718	8651
60°	8043	7812	7774
65°	7085	6790	6768
70°	6117	5864	5864
75°	5265	5191	5118
80°	4642	4699	4587
85°	3634	3963	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.7	2.4
10°-20°	961.4	6.9
20°-30°	1440.0	10.4
30°-40°	1689.1	12.2
40°-50°	1694.3	12.2
50°-60°	1445.4	10.4
60°-70°	942.7	6.8
70°-80°	472.9	3.4
80°-90°	133.7	1.0
90°-100°	349.6	2.5
100°-110°	949.7	6.8
110°-120°	976.5	7.0
120°-130°	780.7	5.6
130°-140°	613.5	4.4
140°-150°	470.4	3.4
150°-160°	338.3	2.4
160°-170°	206.9	1.5
170°-180°	69.7	0.5
0°-30°	2738.1	19.7
0°-40°	4427.2	31.9
0°-60°	7566.9	54.6
0°-90°	9116.2	65.7
90°-120°	2275.9	16.4
90°-150°	4140.4	29.8
90°-180°	4755.0	34.3
0°-180°	13871.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3561	3561	3561	3561	3561	
5°	3573	3540	3551	3539	3539	339
15°	3436	3402	3417	3404	3398	969
25°	3164	3128	3142	3114	3111	1455
35°	2734	2706	2715	2684	2681	1708
45°	2222	2207	2206	2184	2184	1711
55°	1648	1642	1626	1616	1613	1464
65°	974	955	933	927	930	972
75°	443	443	437	434	431	481
85°	103	112	112	112	112	121
90°	2	9	16	21	21	7
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3560.7	3560.7	3560.7	3560.7	3560.7
2.5°	3583.2	3553.9	3560.7	3555.4	3540.7
5°	3573.2	3539.6	3551.3	3538.8	3538.8
7.5°	3548.8	3512.2	3523.9	3511.4	3510.8
10°	3526.4	3489.7	3501.4	3488.8	3485.8
12.5°	3493.9	3457.3	3471.4	3456.4	3455.8
15°	3435.9	3402.3	3417.1	3404.5	3398.4
17.5°	3370.3	3333.7	3351.6	3334.1	3331.6
20°	3320.4	3283.8	3301.7	3276.7	3276.7
22.5°	3260.5	3223.9	3244.3	3211.8	3211.8
25°	3164.4	3127.7	3142.5	3114.4	3111.3
27.5°	3050.1	3014.1	3029.5	2997.7	2997.1
30°	2967.8	2934.2	2952.2	2917.8	2914.7
32.5°	2877.9	2846.8	2859.8	2825.4	2822.3
35°	2733.7	2706.2	2715.0	2683.7	2680.7
37.5°	2582.0	2554.0	2563.9	2537.1	2535.9
40°	2474.7	2456.4	2459.1	2437.1	2431.0
42.5°	2374.8	2354.1	2356.7	2334.9	2333.6
45°	2221.9	2206.7	2206.3	2184.5	2184.5
47.5°	2059.6	2048.0	2044.7	2026.6	2025.9
50°	1947.3	1938.1	1934.8	1919.1	1916.1
52.5°	1830.0	1825.7	1815.0	1801.9	1801.3
55°	1647.7	1641.6	1625.9	1616.4	1613.4
57.5°	1449.9	1437.7	1419.9	1406.2	1408.7
60°	1307.6	1295.4	1270.1	1263.9	1263.9
62.5°	1170.3	1155.6	1130.3	1121.7	1126.6
65°	973.6	955.3	933.1	926.9	930.0
67.5°	795.1	778.7	754.6	754.5	752.1
70°	680.3	671.2	652.2	652.2	652.2
72.5°	577.9	573.7	559.8	559.8	557.4
75°	443.1	443.1	436.9	433.7	430.7
77.5°	332.0	333.3	330.2	326.9	321.4
80°	262.1	268.2	265.3	262.1	259.0
82.5°	197.2	203.3	202.8	197.2	196.6
85°	103.0	112.1	112.3	112.3	112.3
87.5°	27.9	39.1	43.2	44.2	46.7
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)