

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: P563141

Luminaire Tested: **SQ4-PC3-150U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563141  
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-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

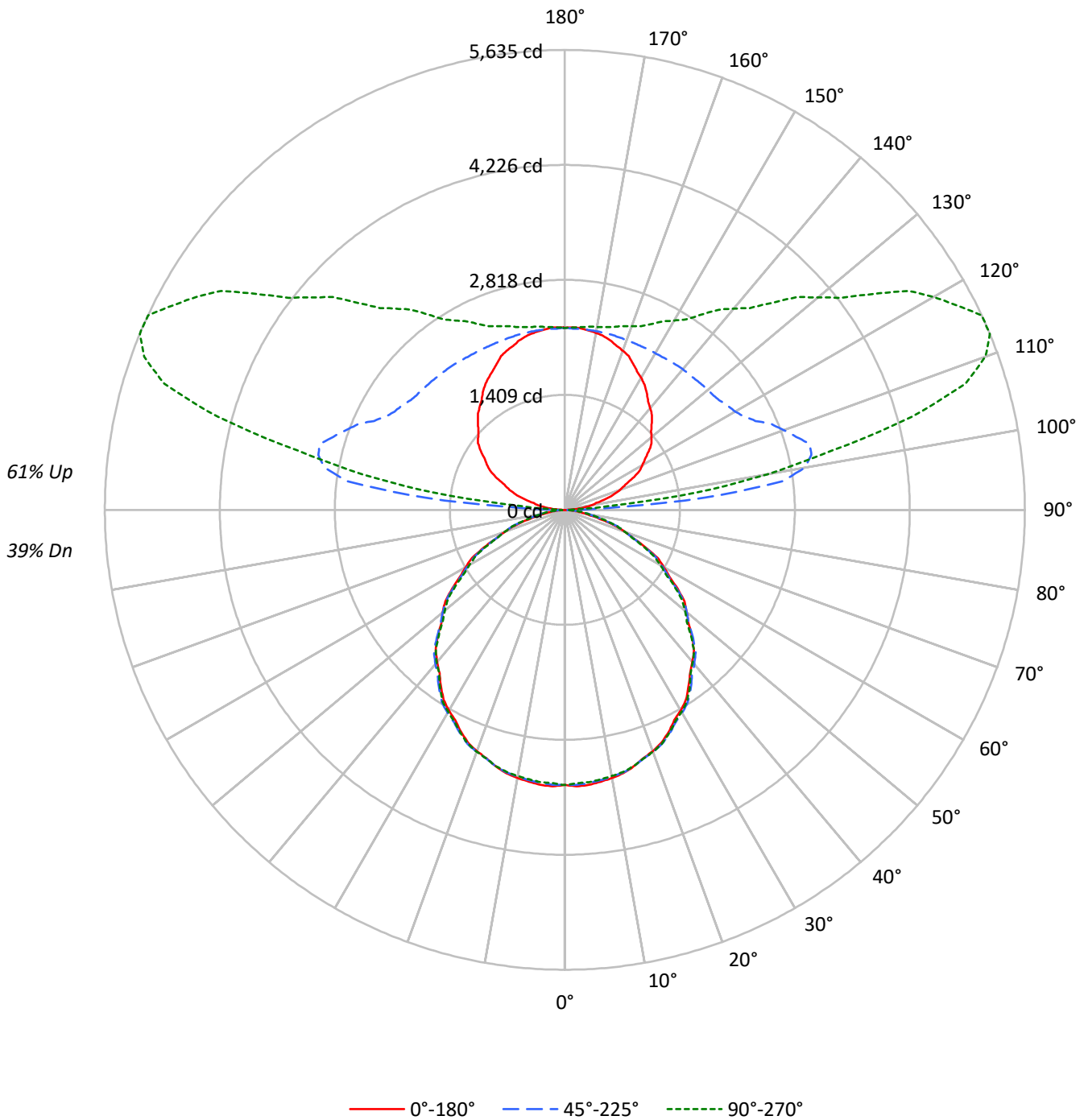
Lumens per Lamp: N/A  
Luminaire Lumens: 23585.9 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 223.7  
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°	10367	10367	10367
5°	10446	10378	10340
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9799
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8786
60°	8601	8428	8294
65°	7950	7791	7723
70°	6961	7017	6988
75°	5600	6194	6231
80°	3980	5251	5308
85°	2424	4407	4407



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.0	1.4
10°-20°	915.6	3.9
20°-30°	1386.5	5.9
30°-40°	1662.2	7.0
40°-50°	1694.9	7.2
50°-60°	1479.5	6.3
60°-70°	1059.2	4.5
70°-80°	545.6	2.3
80°-90°	142.6	0.6
90°-100°	1036.6	4.4
100°-110°	2802.7	11.9
110°-120°	2946.7	12.5
120°-130°	2393.5	10.1
130°-140°	1877.5	8.0
140°-150°	1441.0	6.1
150°-160°	1036.3	4.4
160°-170°	633.1	2.7
170°-180°	213.4	0.9
0°-30°	2621.1	11.1
0°-40°	4283.3	18.2
0°-60°	7457.7	31.6
0°-90°	9205.1	39.0
90°-120°	6786.0	28.8
90°-150°	12497.9	53.0
90°-180°	14381.0	61.0
0°-180°	23585.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3384	3350	3362	3352	3349	321
15°	3256	3228	3256	3256	3252	918
25°	3006	2985	3028	3018	3018	1383
35°	2644	2638	2684	2666	2666	1653
45°	2204	2198	2219	2191	2185	1696
55°	1686	1664	1664	1639	1639	1503
65°	1092	1068	1071	1061	1061	1080
75°	471	493	521	524	524	509
85°	69	105	125	128	125	93
90°	5	14	31	34	31	14
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3371.1	3371.1	3371.1	3371.1	3371.1
2.5°	3391.1	3361.8	3371.1	3363.4	3351.1
5°	3383.6	3350.0	3361.8	3352.3	3349.3
7.5°	3359.3	3325.7	3341.2	3334.8	3331.8
10°	3336.8	3303.2	3321.2	3314.9	3311.8
12.5°	3306.8	3275.7	3296.2	3290.0	3289.3
15°	3255.6	3228.2	3255.6	3255.6	3252.5
17.5°	3191.3	3166.3	3195.7	3197.5	3195.7
20°	3146.4	3118.9	3155.7	3152.7	3155.7
22.5°	3091.4	3068.9	3108.3	3100.3	3103.3
25°	3005.9	2984.6	3027.8	3018.4	3018.4
27.5°	2904.8	2889.5	2936.6	2926.6	2926.6
30°	2837.4	2822.1	2871.7	2859.2	2859.2
32.5°	2762.4	2752.1	2799.3	2784.3	2784.3
35°	2643.8	2637.7	2684.4	2665.7	2665.7
37.5°	2521.5	2516.0	2558.3	2535.7	2528.3
40°	2431.6	2428.5	2465.9	2440.9	2440.9
42.5°	2341.7	2338.6	2371.0	2341.1	2341.1
45°	2203.7	2197.6	2219.3	2191.1	2185.0
47.5°	2053.3	2047.2	2060.8	2030.1	2027.0
50°	1950.9	1944.8	1950.9	1922.7	1919.7
52.5°	1846.0	1835.0	1836.0	1807.9	1807.3
55°	1685.6	1664.2	1663.7	1638.7	1638.7
57.5°	1515.8	1487.7	1490.2	1468.9	1465.8
60°	1398.4	1367.9	1370.3	1351.5	1348.4
62.5°	1283.5	1248.1	1255.4	1234.2	1233.6
65°	1092.5	1068.1	1070.6	1061.3	1061.3
67.5°	909.0	886.4	902.7	895.2	894.6
70°	774.1	758.8	780.4	780.3	777.2
72.5°	649.3	648.6	675.5	675.5	677.3
75°	471.3	492.7	521.3	524.4	524.4
77.5°	314.6	352.5	383.9	385.2	384.6
80°	224.7	267.5	296.5	302.7	299.7
82.5°	152.3	197.5	221.6	227.8	224.7
85°	68.7	105.3	124.9	127.9	124.9
87.5°	20.9	44.8	56.2	56.5	51.2
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)