

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: P564453

Luminaire Tested: **SQ4-PR1-150U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564453  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 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: 26646.1 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

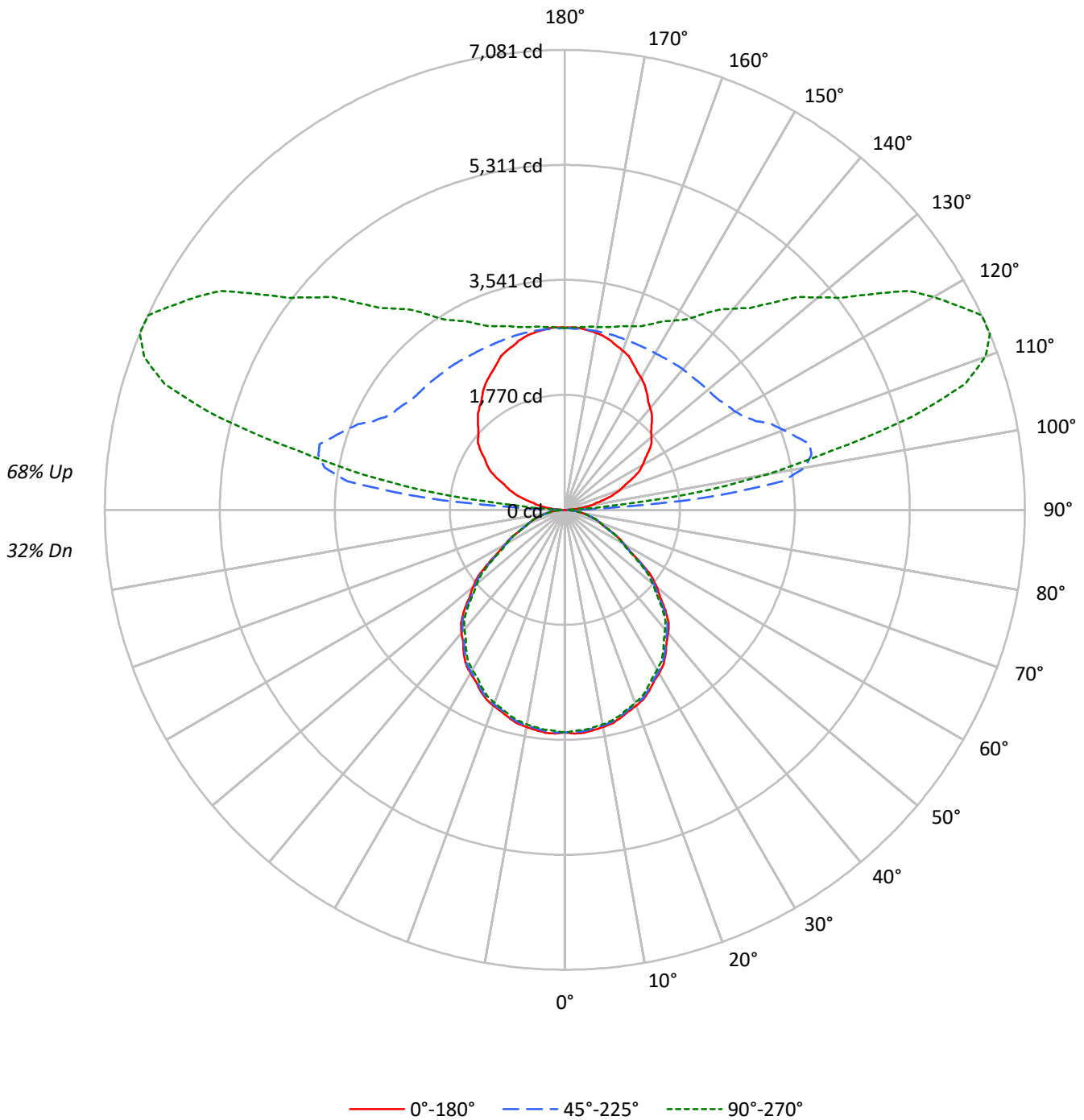
Input Watts (W): 194.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10163	10075	9931
40°	9932	9825	9648
45°	9527	9360	9168
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5629	5586
70°	5150	5177	5177
75°	4947	4947	4981
80°	4653	4706	4653
85°	3751	4167	4167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.1	1.2
10°-20°	927.3	3.5
20°-30°	1398.7	5.2
30°-40°	1666.6	6.3
40°-50°	1643.1	6.2
50°-60°	1255.7	4.7
60°-70°	777.1	2.9
70°-80°	441.4	1.7
80°-90°	140.1	0.5
90°-100°	1302.7	4.9
100°-110°	3522.1	13.2
110°-120°	3703.0	13.9
120°-130°	3007.8	11.3
130°-140°	2359.4	8.9
140°-150°	1810.8	6.8
150°-160°	1302.3	4.9
160°-170°	795.6	3.0
170°-180°	268.2	1.0
0°-30°	2650.2	9.9
0°-40°	4316.8	16.2
0°-60°	7215.6	27.1
0°-90°	8574.2	32.2
90°-120°	8527.7	32.0
90°-150°	15705.8	58.9
90°-180°	18072.0	67.8
0°-180°	26646.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3428	3428	3428	3428	3428	
5°	3445	3408	3419	3407	3401	327
15°	3315	3281	3295	3283	3277	936
25°	3073	3036	3053	3020	3017	1414
35°	2707	2675	2684	2648	2645	1690
45°	2190	2162	2152	2114	2108	1678
55°	1435	1412	1402	1378	1373	1286
65°	770	765	774	768	768	781
75°	416	416	416	419	419	440
85°	106	112	118	118	118	124
90°	6	18	39	42	39	18
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3427.5	3427.5	3427.5	3427.5	3427.5
2.5°	3448.7	3418.7	3427.5	3420.0	3403.9
5°	3445.2	3407.7	3418.6	3406.7	3400.9
7.5°	3418.6	3381.7	3392.6	3380.8	3377.3
10°	3395.0	3360.4	3371.4	3359.4	3353.7
12.5°	3369.0	3332.1	3345.4	3331.1	3325.3
15°	3315.3	3280.7	3294.6	3282.7	3276.9
17.5°	3256.3	3219.3	3233.2	3219.5	3212.0
20°	3209.0	3174.4	3188.4	3167.6	3164.7
22.5°	3157.1	3122.4	3136.4	3108.6	3108.1
25°	3073.2	3035.7	3052.6	3020.0	3017.1
27.5°	2973.4	2938.8	2952.8	2919.6	2916.2
30°	2904.9	2870.3	2884.3	2848.7	2842.9
32.5°	2827.0	2794.7	2806.3	2770.8	2767.4
35°	2707.1	2675.4	2683.5	2648.0	2645.2
37.5°	2570.8	2541.9	2546.6	2507.5	2504.6
40°	2473.9	2445.1	2447.4	2406.0	2403.1
42.5°	2367.6	2338.8	2336.4	2295.0	2292.1
45°	2190.5	2161.7	2152.1	2113.6	2107.9
47.5°	1988.6	1959.7	1941.9	1910.6	1906.5
50°	1842.2	1813.3	1797.9	1771.1	1762.5
52.5°	1683.9	1655.1	1642.0	1617.6	1608.9
55°	1434.8	1411.7	1402.3	1378.5	1372.8
57.5°	1198.0	1182.4	1179.7	1156.6	1154.3
60°	1053.9	1045.3	1045.1	1024.4	1024.4
62.5°	931.1	924.8	929.3	915.7	913.4
65°	770.5	764.7	773.5	767.6	767.6
67.5°	643.6	643.6	648.9	646.5	646.5
70°	572.7	572.7	575.7	575.7	575.7
72.5°	509.0	506.6	514.3	514.2	511.9
75°	416.3	416.3	416.3	419.2	419.2
77.5°	324.1	324.7	327.1	326.5	324.1
80°	262.7	265.6	265.7	262.7	262.7
82.5°	201.3	204.2	204.3	203.6	201.3
85°	106.3	112.1	118.1	118.1	118.1
87.5°	31.9	43.5	55.1	55.6	52.7
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)