

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: P564465

Luminaire Tested: **SQ4-PR1-150U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564465  
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-935-1D-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

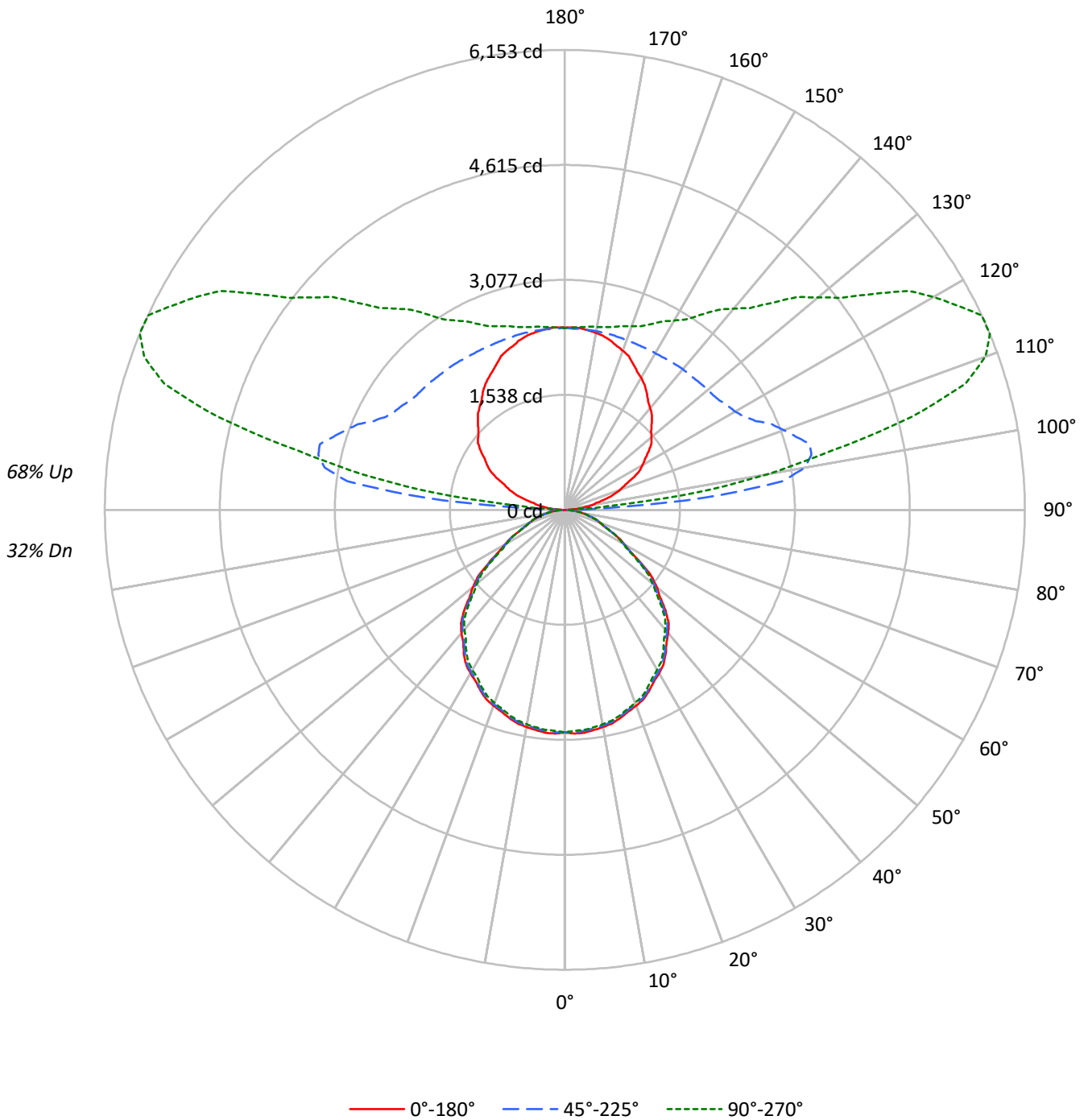
Lumens per Lamp: N/A  
Luminaire Lumens: 23152.5 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6533	6396
60°	5633	5586	5475
65°	4872	4891	4853
70°	4474	4498	4498
75°	4298	4298	4328
80°	4043	4089	4043
85°	3257	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.6	1.2
10°-20°	805.8	3.5
20°-30°	1215.3	5.2
30°-40°	1448.1	6.3
40°-50°	1427.7	6.2
50°-60°	1091.1	4.7
60°-70°	675.2	2.9
70°-80°	383.5	1.7
80°-90°	121.7	0.5
90°-100°	1131.9	4.9
100°-110°	3060.3	13.2
110°-120°	3217.5	13.9
120°-130°	2613.5	11.3
130°-140°	2050.0	8.9
140°-150°	1573.4	6.8
150°-160°	1131.6	4.9
160°-170°	691.3	3.0
170°-180°	233.1	1.0
0°-30°	2302.7	9.9
0°-40°	3750.8	16.2
0°-60°	6269.6	27.1
0°-90°	7450.0	32.2
90°-120°	7409.7	32.0
90°-150°	13646.6	58.9
90°-180°	15703.0	67.8
0°-180°	23152.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2994	2961	2970	2960	2955	284
15°	2881	2850	2863	2852	2847	813
25°	2670	2638	2652	2624	2622	1229
35°	2352	2325	2332	2301	2298	1468
45°	1903	1878	1870	1836	1832	1458
55°	1247	1227	1218	1198	1193	1117
65°	670	664	672	667	667	678
75°	362	362	362	364	364	382
85°	92	97	103	103	103	107
90°	5	16	34	37	34	15
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2978.1	2978.1	2978.1	2978.1	2978.1
2.5°	2996.6	2970.5	2978.1	2971.6	2957.6
5°	2993.5	2960.9	2970.4	2960.0	2955.0
7.5°	2970.4	2938.3	2947.8	2937.5	2934.5
10°	2949.9	2919.8	2929.4	2919.0	2914.0
12.5°	2927.3	2895.2	2906.8	2894.4	2889.4
15°	2880.6	2850.5	2862.7	2852.3	2847.3
17.5°	2829.3	2797.2	2809.3	2797.4	2790.9
20°	2788.3	2758.2	2770.3	2752.3	2749.8
22.5°	2743.1	2713.1	2725.2	2701.1	2700.6
25°	2670.3	2637.7	2652.3	2624.1	2621.6
27.5°	2583.6	2553.5	2565.6	2536.8	2533.8
30°	2524.1	2494.0	2506.1	2475.2	2470.2
32.5°	2456.4	2428.3	2438.4	2407.6	2404.6
35°	2352.2	2324.6	2331.7	2300.9	2298.4
37.5°	2233.7	2208.6	2212.7	2178.8	2176.3
40°	2149.6	2124.5	2126.5	2090.5	2088.0
42.5°	2057.2	2032.2	2030.0	1994.1	1991.6
45°	1903.3	1878.2	1870.0	1836.5	1831.5
47.5°	1727.9	1702.8	1687.3	1660.1	1656.6
50°	1600.6	1575.6	1562.2	1538.9	1531.4
52.5°	1463.1	1438.1	1426.7	1405.5	1398.0
55°	1246.7	1226.6	1218.4	1197.8	1192.8
57.5°	1040.9	1027.4	1025.0	1005.0	1003.0
60°	915.8	908.2	908.1	890.1	890.1
62.5°	809.0	803.5	807.5	795.7	793.7
65°	669.5	664.5	672.1	666.9	666.9
67.5°	559.2	559.2	563.8	561.8	561.8
70°	497.6	497.6	500.2	500.2	500.2
72.5°	442.2	440.2	446.8	446.8	444.8
75°	361.7	361.7	361.7	364.2	364.2
77.5°	281.7	282.2	284.2	283.7	281.7
80°	228.3	230.8	230.9	228.3	228.3
82.5°	174.9	177.4	177.5	176.9	174.9
85°	92.3	97.4	102.6	102.6	102.6
87.5°	27.7	37.8	47.9	48.3	45.8
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)