

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: P564469

Luminaire Tested: **SQ4-PR1-150U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564469  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

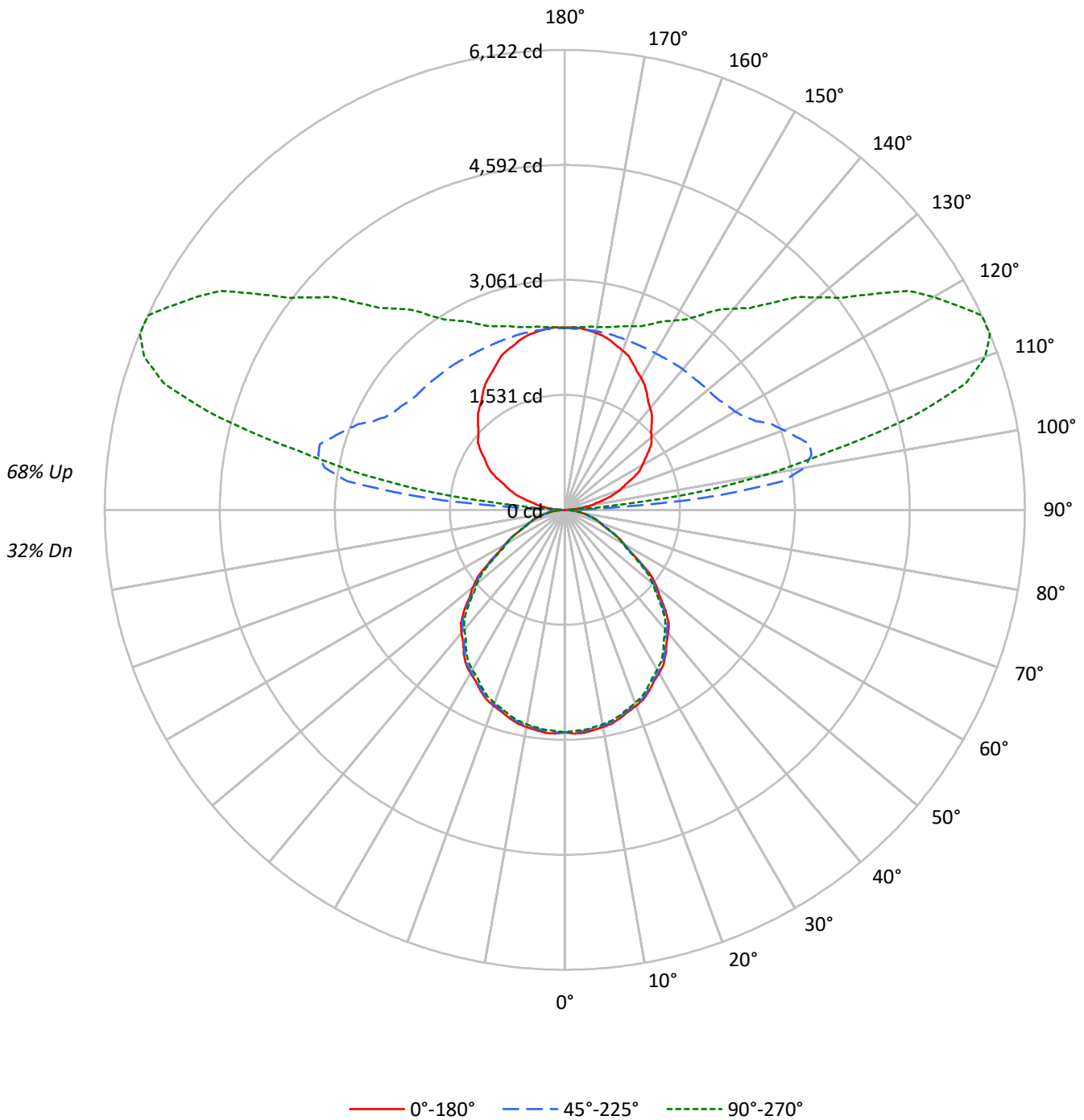
Lumens per Lamp: N/A  
Luminaire Lumens: 23035.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9019
20°	9079	9021	8954
25°	9015	8955	8850
30°	8918	8854	8728
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7619	7436	7290
55°	6650	6500	6363
60°	5604	5557	5447
65°	4847	4866	4828
70°	4452	4475	4475
75°	4275	4275	4306
80°	4022	4068	4022
85°	3243	3603	3603



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	1.2
10°-20°	801.7	3.5
20°-30°	1209.2	5.2
30°-40°	1440.7	6.3
40°-50°	1420.4	6.2
50°-60°	1085.6	4.7
60°-70°	671.8	2.9
70°-80°	381.5	1.7
80°-90°	121.1	0.5
90°-100°	1126.1	4.9
100°-110°	3044.8	13.2
110°-120°	3201.2	13.9
120°-130°	2600.2	11.3
130°-140°	2039.6	8.9
140°-150°	1565.4	6.8
150°-160°	1125.8	4.9
160°-170°	687.8	3.0
170°-180°	231.9	1.0
0°-30°	2291.0	9.9
0°-40°	3731.7	16.2
0°-60°	6237.7	27.1
0°-90°	7412.2	32.2
90°-120°	7372.0	32.0
90°-150°	13577.3	58.9
90°-180°	15623.0	67.8
0°-180°	23035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2978	2946	2955	2945	2940	283
15°	2866	2836	2848	2838	2833	809
25°	2657	2624	2639	2611	2608	1223
35°	2340	2313	2320	2289	2287	1461
45°	1894	1869	1860	1827	1822	1451
55°	1240	1220	1212	1192	1187	1111
65°	666	661	669	664	664	675
75°	360	360	360	362	362	380
85°	92	97	102	102	102	107
90°	5	15	34	36	34	15
95°	175	613	1873	969	576	183
105°	566	875	3378	4982	4778	596
115°	996	1218	2801	5423	6122	984
125°	1364	1563	2525	4261	5005	1216
135°	1635	1829	2457	3440	3894	1264
145°	1902	2044	2423	2945	3169	1190
155°	2147	2231	2402	2642	2728	990
165°	2337	2360	2413	2507	2520	658
175°	2426	2423	2415	2446	2441	230
180°	2423	2423	2423	2423	2423	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2963.0	2963.0	2963.0	2963.0	2963.0
2.5°	2981.4	2955.4	2963.0	2956.5	2942.6
5°	2978.3	2945.9	2955.3	2945.0	2940.0
7.5°	2955.3	2923.4	2932.9	2922.6	2919.6
10°	2934.9	2905.0	2914.5	2904.2	2899.2
12.5°	2912.5	2880.5	2892.0	2879.7	2874.7
15°	2866.0	2836.1	2848.1	2837.8	2832.8
17.5°	2815.0	2783.0	2795.1	2783.2	2776.7
20°	2774.1	2744.2	2756.3	2738.3	2735.9
22.5°	2729.2	2699.3	2711.4	2687.4	2686.9
25°	2656.7	2624.3	2638.9	2610.7	2608.2
27.5°	2570.5	2540.5	2552.6	2524.0	2521.0
30°	2511.3	2481.3	2493.4	2462.7	2457.7
32.5°	2443.9	2415.9	2426.0	2395.3	2392.3
35°	2340.3	2312.8	2319.9	2289.2	2286.7
37.5°	2222.4	2197.4	2201.4	2167.7	2165.2
40°	2138.7	2113.7	2115.7	2079.9	2077.4
42.5°	2046.8	2021.8	2019.7	1983.9	1981.5
45°	1893.7	1868.7	1860.5	1827.2	1822.2
47.5°	1719.1	1694.1	1678.8	1651.6	1648.1
50°	1592.5	1567.6	1554.2	1531.1	1523.6
52.5°	1455.7	1430.8	1419.5	1398.4	1390.9
55°	1240.3	1220.4	1212.2	1191.7	1186.7
57.5°	1035.6	1022.2	1019.8	999.9	997.9
60°	911.1	903.6	903.4	885.6	885.6
62.5°	804.9	799.4	803.4	791.6	789.6
65°	666.1	661.1	668.7	663.5	663.5
67.5°	556.4	556.4	561.0	558.9	558.9
70°	495.1	495.1	497.7	497.7	497.7
72.5°	440.0	438.0	444.6	444.5	442.5
75°	359.8	359.8	359.8	362.4	362.4
77.5°	280.2	280.7	282.8	282.2	280.2
80°	227.1	229.6	229.7	227.1	227.1
82.5°	174.1	176.5	176.6	176.0	174.1
85°	91.9	96.9	102.1	102.1	102.1
87.5°	27.6	37.6	47.6	48.1	45.6
90°	5.2	15.4	33.9	36.5	33.9
92.5°	74.1	269.9	532.6	231.2	167.5
95°	174.8	613.4	1872.8	969.2	576.4
97.5°	280.7	703.5	2919.2	2415.8	1774.2
100°	359.9	739.9	3244.7	3383.9	2736.1
102.5°	433.0	790.5	3359.5	4117.9	3633.4
105°	566.0	874.6	3377.8	4982.5	4778.4
107.5°	689.1	970.7	3230.1	5521.8	5589.6
110°	785.1	1040.1	3098.7	5666.6	5954.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	870.7	1109.4	2977.7	5637.7	6121.7
115°	996.4	1218.3	2801.3	5422.9	6121.7
117.5°	1119.5	1327.6	2685.0	5094.8	5887.0
120°	1194.6	1398.6	2616.1	4859.4	5667.9
122.5°	1265.6	1465.5	2574.4	4607.1	5421.6
125°	1364.1	1563.1	2524.8	4260.7	5005.4
127.5°	1454.9	1650.3	2495.6	3978.0	4632.9
130°	1505.0	1706.5	2483.1	3803.3	4395.0
132.5°	1557.2	1756.6	2470.6	3645.8	4190.5
135°	1635.4	1829.2	2457.0	3440.2	3894.2
137.5°	1714.2	1897.3	2445.6	3273.5	3643.3
140°	1768.4	1939.3	2441.4	3166.1	3495.1
142.5°	1820.6	1981.3	2433.0	3069.2	3357.4
145°	1901.5	2044.3	2423.1	2944.7	3169.1
147.5°	1975.0	2101.5	2411.6	2831.9	3004.3
150°	2029.3	2141.5	2407.5	2770.6	2908.3
152.5°	2079.3	2177.3	2405.4	2713.7	2826.9
155°	2146.6	2230.8	2402.3	2641.6	2728.3
157.5°	2216.5	2275.2	2402.8	2591.4	2648.5
160°	2256.2	2304.6	2404.9	2559.7	2600.5
162.5°	2287.5	2327.8	2407.0	2534.4	2565.0
165°	2337.0	2360.0	2412.7	2506.9	2519.6
167.5°	2371.0	2386.8	2413.2	2483.3	2489.4
170°	2391.8	2399.5	2415.3	2472.7	2472.7
172.5°	2408.5	2410.0	2415.3	2460.1	2458.1
175°	2425.7	2423.2	2415.3	2446.5	2441.4
177.5°	2431.5	2425.3	2414.8	2435.5	2429.4
180°	2423.1	2423.1	2423.1	2423.1	2423.1

(END OF REPORT)