

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: P563125

Luminaire Tested: **SQ4-PC3-150U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563125  
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-075D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

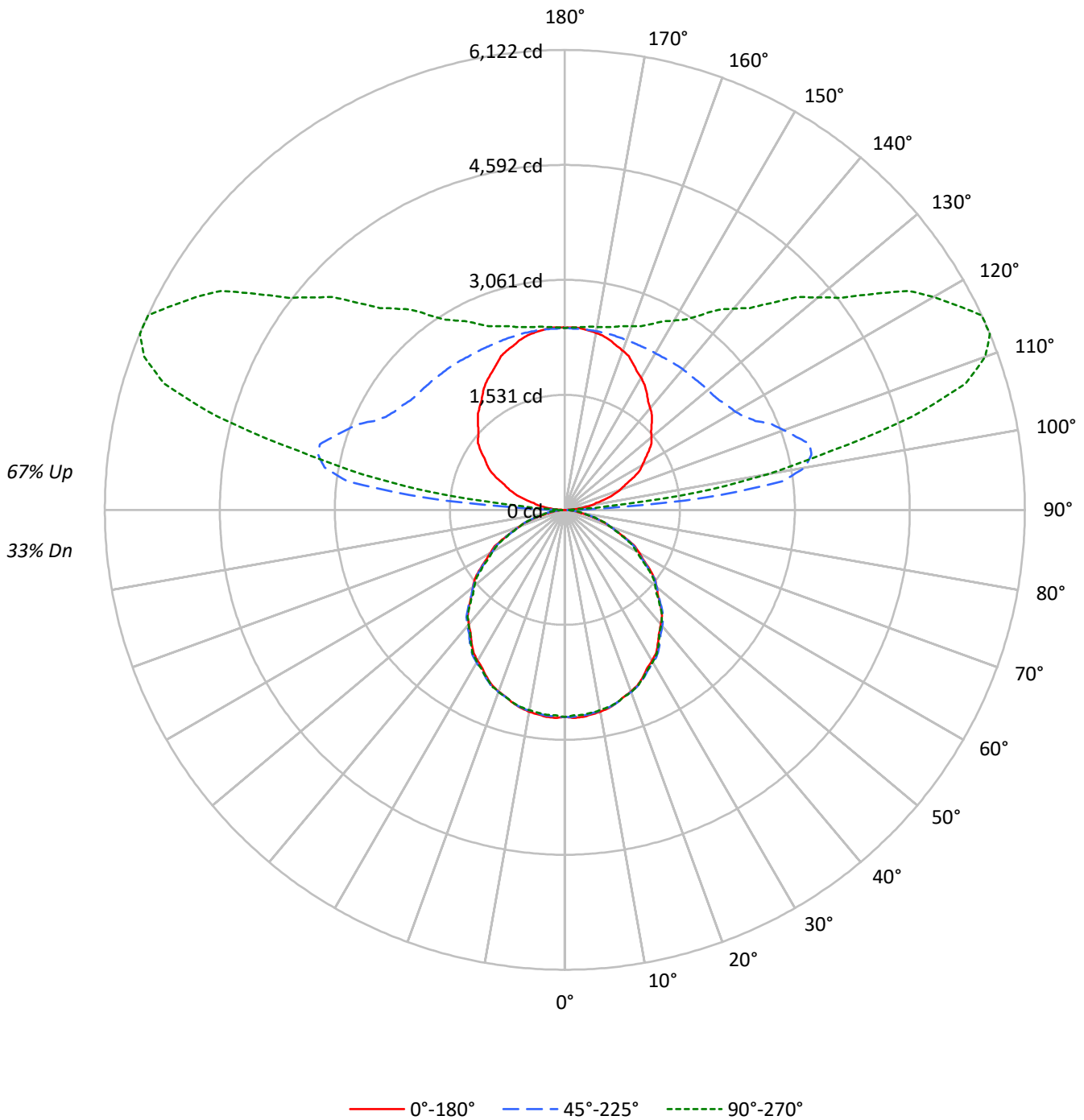
Lumens per Lamp: N/A  
Luminaire Lumens: 23150.2 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8400	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7509
55°	7389	7294	7184
60°	7032	6891	6781
65°	6500	6370	6314
70°	5691	5737	5714
75°	4579	5064	5095
80°	3255	4295	4339
85°	1980	3603	3603



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	1.1
10°-20°	748.6	3.2
20°-30°	1133.6	4.9
30°-40°	1359.0	5.9
40°-50°	1385.8	6.0
50°-60°	1209.7	5.2
60°-70°	866.0	3.7
70°-80°	446.1	1.9
80°-90°	117.8	0.5
90°-100°	1126.1	4.9
100°-110°	3044.8	13.2
110°-120°	3201.2	13.8
120°-130°	2600.2	11.2
130°-140°	2039.6	8.8
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°	2143.0	9.3
0°-40°	3502.1	15.1
0°-60°	6097.5	26.3
0°-90°	7527.5	32.5
90°-120°	7372.0	31.8
90°-150°	13577.3	58.6
90°-180°	15623.0	67.5
0°-180°	23150.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2766	2739	2749	2741	2738	263
15°	2662	2639	2662	2662	2659	751
25°	2458	2440	2476	2468	2468	1131
35°	2162	2157	2195	2180	2180	1352
45°	1802	1797	1814	1792	1786	1387
55°	1378	1361	1360	1340	1340	1229
65°	893	873	875	868	868	883
75°	385	403	426	429	429	416
85°	56	86	102	105	102	76
90°	5	15	34	36	34	14
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°	2756.3	2756.3	2756.3	2756.3	2756.3
2.5°	2772.6	2748.7	2756.3	2749.9	2739.9
5°	2766.5	2739.0	2748.6	2740.9	2738.4
7.5°	2746.6	2719.1	2731.8	2726.6	2724.1
10°	2728.2	2700.8	2715.4	2710.3	2707.8
12.5°	2703.7	2678.3	2695.0	2689.9	2689.4
15°	2661.8	2639.4	2661.8	2661.8	2659.3
17.5°	2609.3	2588.8	2612.8	2614.3	2612.8
20°	2572.5	2550.1	2580.2	2577.7	2580.2
22.5°	2527.6	2509.1	2541.4	2534.8	2537.3
25°	2457.7	2440.2	2475.5	2467.9	2467.9
27.5°	2375.0	2362.5	2401.0	2392.9	2392.9
30°	2319.9	2307.4	2347.9	2337.7	2337.7
32.5°	2258.6	2250.1	2288.7	2276.5	2276.5
35°	2161.6	2156.6	2194.8	2179.5	2179.5
37.5°	2061.6	2057.1	2091.7	2073.2	2067.2
40°	1988.1	1985.6	2016.2	1995.7	1995.7
42.5°	1914.6	1912.1	1938.6	1914.1	1914.1
45°	1801.8	1796.8	1814.5	1791.5	1786.5
47.5°	1678.8	1673.8	1684.9	1659.8	1657.3
50°	1595.1	1590.1	1595.1	1572.0	1569.5
52.5°	1509.3	1500.3	1501.2	1478.2	1477.7
55°	1378.1	1360.7	1360.3	1339.9	1339.9
57.5°	1239.3	1216.3	1218.4	1201.0	1198.5
60°	1143.3	1118.4	1120.4	1105.0	1102.5
62.5°	1049.4	1020.5	1026.5	1009.1	1008.6
65°	893.2	873.3	875.4	867.7	867.7
67.5°	743.2	724.7	738.1	731.9	731.4
70°	632.9	620.4	638.0	638.0	635.5
72.5°	530.8	530.3	552.3	552.3	553.8
75°	385.4	402.8	426.2	428.8	428.8
77.5°	257.3	288.2	313.9	314.9	314.4
80°	183.8	218.7	242.5	247.5	245.0
82.5°	124.5	161.5	181.2	186.2	183.8
85°	56.1	86.1	102.1	104.6	102.1
87.5°	17.4	37.4	47.6	48.0	43.5
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)