

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: P562656

Luminaire Tested: **SQ4-PC3-050U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562656  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11694.1 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

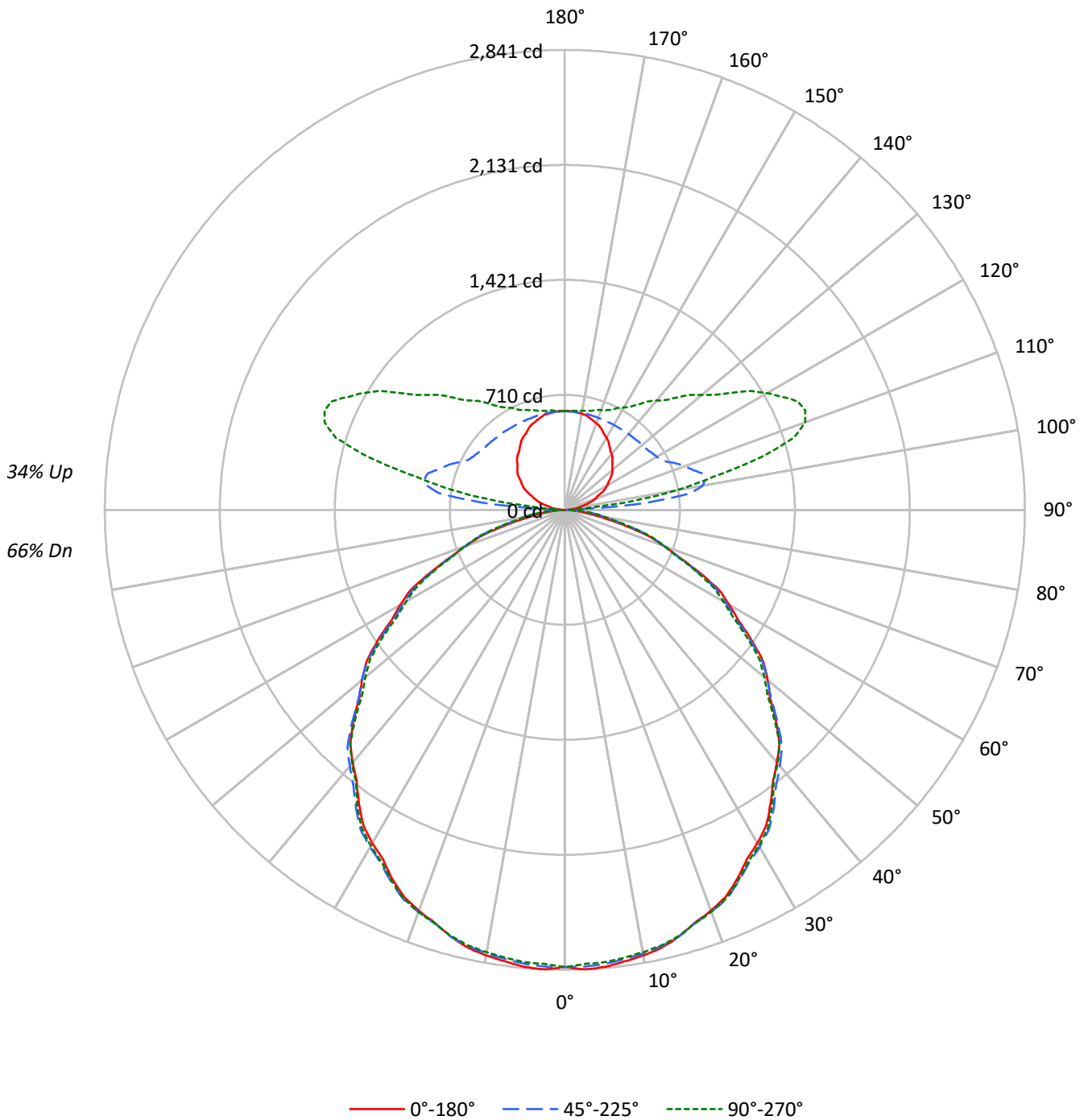
Input Watts (W): 95.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

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

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12473	12665	12577
40°	12267	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10808	10592	10423
65°	9991	9791	9705
70°	8747	8818	8782
75°	7039	7784	7830
80°	5002	6599	6668
85°	3043	5536	5536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.3	2.3
10°-20°	767.0	6.6
20°-30°	1161.6	9.9
30°-40°	1392.6	11.9
40°-50°	1419.9	12.1
50°-60°	1239.5	10.6
60°-70°	887.4	7.6
70°-80°	457.1	3.9
80°-90°	117.9	1.0
90°-100°	292.9	2.5
100°-110°	795.7	6.8
110°-120°	818.1	7.0
120°-130°	654.1	5.6
130°-140°	513.9	4.4
140°-150°	394.1	3.4
150°-160°	283.4	2.4
160°-170°	173.3	1.5
170°-180°	58.4	0.5
0°-30°	2195.9	18.8
0°-40°	3588.5	30.7
0°-60°	6247.9	53.4
0°-90°	7710.3	65.9
90°-120°	1906.7	16.3
90°-150°	3468.7	29.7
90°-180°	3984.0	34.1
0°-180°	11694.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2835	2807	2816	2808	2806	269
15°	2728	2704	2728	2727	2725	769
25°	2518	2500	2537	2529	2529	1159
35°	2215	2210	2249	2233	2233	1385
45°	1846	1841	1859	1836	1830	1421
55°	1412	1394	1394	1373	1373	1259
65°	915	895	897	889	889	905
75°	395	413	437	439	439	427
85°	58	88	105	107	105	78
90°	2	8	14	18	18	5
95°	43	160	510	222	149	46
105°	141	220	875	1332	1254	150
115°	251	305	700	1393	1587	248
125°	345	393	634	1068	1260	308
135°	416	462	616	870	981	322
145°	481	515	608	739	795	302
155°	543	563	604	664	683	251
165°	589	596	606	632	634	166
175°	610	612	608	616	614	58
180°	610	610	610	610	610	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2824.3	2824.3	2824.3	2824.3	2824.3
2.5°	2841.0	2816.4	2824.3	2817.7	2807.5
5°	2834.7	2806.6	2816.4	2808.5	2806.0
7.5°	2814.3	2786.2	2799.2	2793.9	2791.3
10°	2795.5	2767.4	2782.4	2777.1	2774.6
12.5°	2770.4	2744.3	2761.5	2756.3	2755.7
15°	2727.5	2704.5	2727.5	2727.4	2724.9
17.5°	2673.6	2652.7	2677.3	2678.8	2677.3
20°	2636.0	2613.0	2643.8	2641.3	2643.8
22.5°	2589.9	2571.0	2604.1	2597.3	2599.9
25°	2518.3	2500.4	2536.6	2528.8	2528.8
27.5°	2433.6	2420.8	2460.2	2451.9	2451.9
30°	2377.1	2364.3	2405.8	2395.4	2395.4
32.5°	2314.3	2305.6	2345.2	2332.6	2332.6
35°	2214.9	2209.8	2248.9	2233.3	2233.3
37.5°	2112.4	2107.8	2143.3	2124.3	2118.2
40°	2037.1	2034.6	2065.9	2045.0	2045.0
42.5°	1961.8	1959.3	1986.4	1961.3	1961.3
45°	1846.2	1841.1	1859.3	1835.7	1830.5
47.5°	1720.2	1715.1	1726.5	1700.8	1698.2
50°	1634.4	1629.3	1634.4	1610.8	1608.3
52.5°	1546.5	1537.3	1538.2	1514.6	1514.1
55°	1412.1	1394.2	1393.8	1372.9	1372.9
57.5°	1269.9	1246.3	1248.4	1230.6	1228.0
60°	1171.5	1146.0	1148.0	1132.3	1129.7
62.5°	1075.3	1045.6	1051.8	1034.0	1033.5
65°	915.3	894.8	897.0	889.1	889.1
67.5°	761.5	742.6	756.3	750.0	749.5
70°	648.5	635.7	653.8	653.7	651.1
72.5°	543.9	543.4	565.9	565.9	567.5
75°	394.9	412.8	436.7	439.3	439.3
77.5°	263.6	295.3	321.7	322.7	322.2
80°	188.3	224.1	248.4	253.6	251.0
82.5°	127.6	165.5	185.7	190.8	188.3
85°	57.5	88.2	104.6	107.2	104.6
87.5°	17.1	36.7	44.6	45.3	41.2
90°	2.0	7.7	13.7	17.7	17.7
92.5°	17.7	80.2	139.3	59.8	50.6
95°	43.2	160.2	510.1	222.0	149.1
97.5°	71.4	176.9	782.0	608.4	427.3
100°	90.2	188.1	865.2	877.1	708.2
102.5°	109.1	199.2	887.2	1084.7	935.8
105°	141.3	219.9	875.0	1332.3	1253.6
107.5°	174.6	244.1	824.4	1460.1	1482.0
110°	198.2	261.5	786.7	1485.3	1579.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	218.6	278.8	749.1	1464.4	1606.0
115°	251.1	304.8	700.4	1393.4	1587.2
117.5°	281.7	333.1	669.4	1292.7	1511.0
120°	302.1	352.0	655.3	1225.2	1442.0
122.5°	319.4	369.3	645.9	1157.6	1366.7
125°	345.3	393.3	633.7	1067.7	1259.5
127.5°	368.4	416.0	627.0	999.6	1164.2
130°	382.6	428.6	623.9	956.8	1104.5
132.5°	396.7	442.7	620.7	920.4	1051.2
135°	415.9	462.0	616.0	869.7	980.9
137.5°	436.7	478.5	613.7	824.9	918.6
140°	449.3	489.6	612.1	796.5	880.9
142.5°	461.8	499.0	610.5	774.2	844.8
145°	480.7	515.2	608.2	738.9	794.6
147.5°	501.9	531.4	606.2	711.2	754.9
150°	516.0	540.9	606.2	695.3	729.8
152.5°	527.0	548.8	604.7	681.0	709.4
155°	543.4	562.6	604.3	663.6	682.7
157.5°	559.5	574.5	604.3	651.7	666.3
160°	568.9	582.4	604.3	643.8	655.3
162.5°	578.4	588.7	605.8	637.4	645.9
165°	588.6	596.2	606.2	631.8	633.7
167.5°	599.2	603.0	608.2	625.1	626.6
170°	602.3	606.1	608.2	621.9	621.9
172.5°	605.4	607.7	608.2	618.8	618.8
175°	610.1	612.1	608.2	616.0	614.1
177.5°	611.7	611.7	607.0	613.2	610.1
180°	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)