

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: P563136

Luminaire Tested: **SQ4-PC3-150U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563136  
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-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

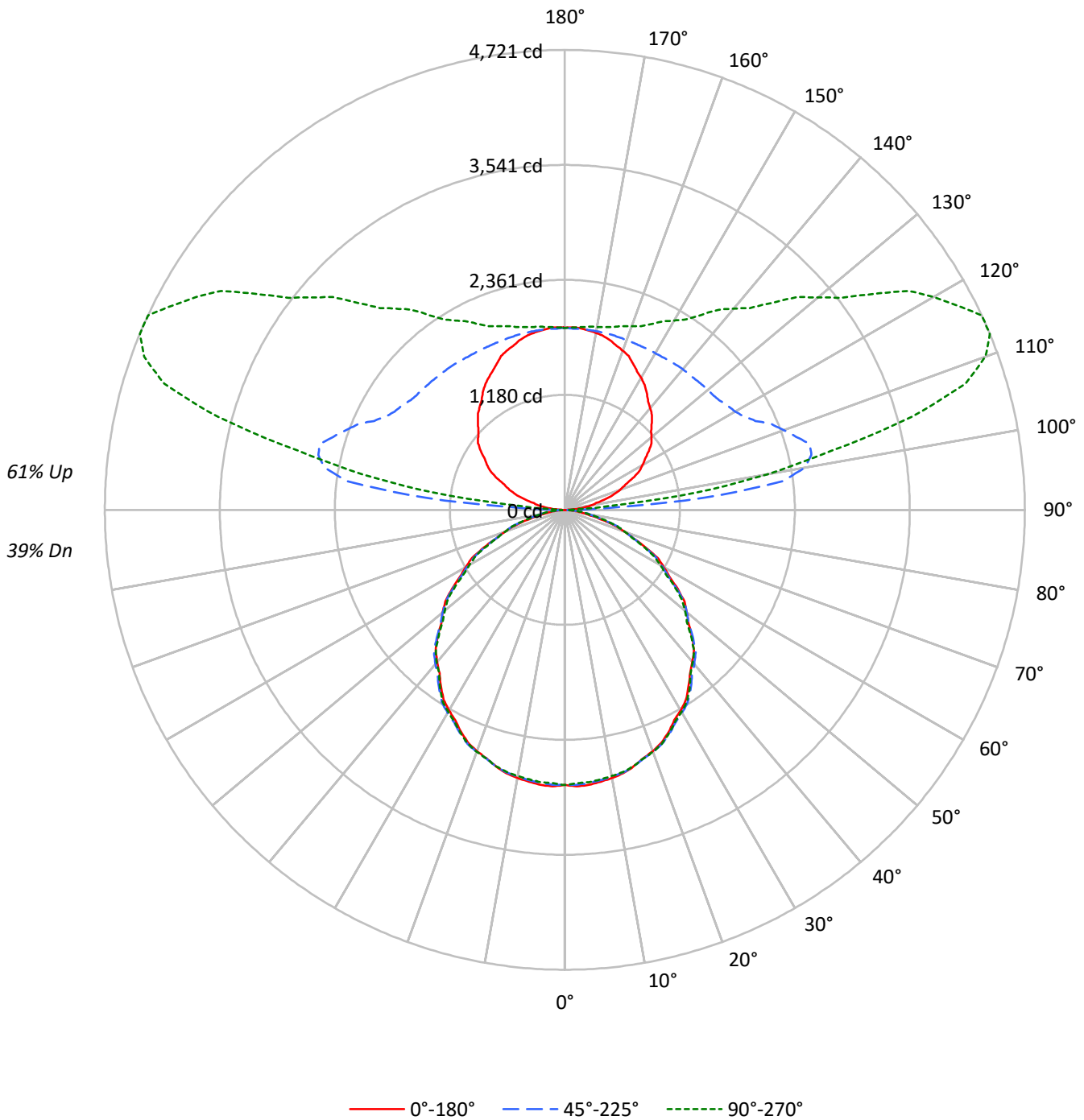
Lumens per Lamp: N/A  
Luminaire Lumens: 19759.7 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 148.4  
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

**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	1.4
10°-20°	767.0	3.9
20°-30°	1161.6	5.9
30°-40°	1392.6	7.0
40°-50°	1419.9	7.2
50°-60°	1239.5	6.3
60°-70°	887.4	4.5
70°-80°	457.1	2.3
80°-90°	119.5	0.6
90°-100°	868.4	4.4
100°-110°	2348.1	11.9
110°-120°	2468.6	12.5
120°-130°	2005.2	10.1
130°-140°	1572.9	8.0
140°-150°	1207.2	6.1
150°-160°	868.2	4.4
160°-170°	530.4	2.7
170°-180°	178.8	0.9
0°-30°	2195.9	11.1
0°-40°	3588.5	18.2
0°-60°	6247.9	31.6
0°-90°	7711.8	39.0
90°-120°	5685.1	28.8
90°-150°	10470.5	53.0
90°-180°	12048.0	61.0
0°-180°	19759.7	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°	4	12	26	28	26	11
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

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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°	17.5	37.5	47.1	47.4	42.9
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)