

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: P563021

Luminaire Tested: **SQ4-PC3-125U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563021  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-075D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

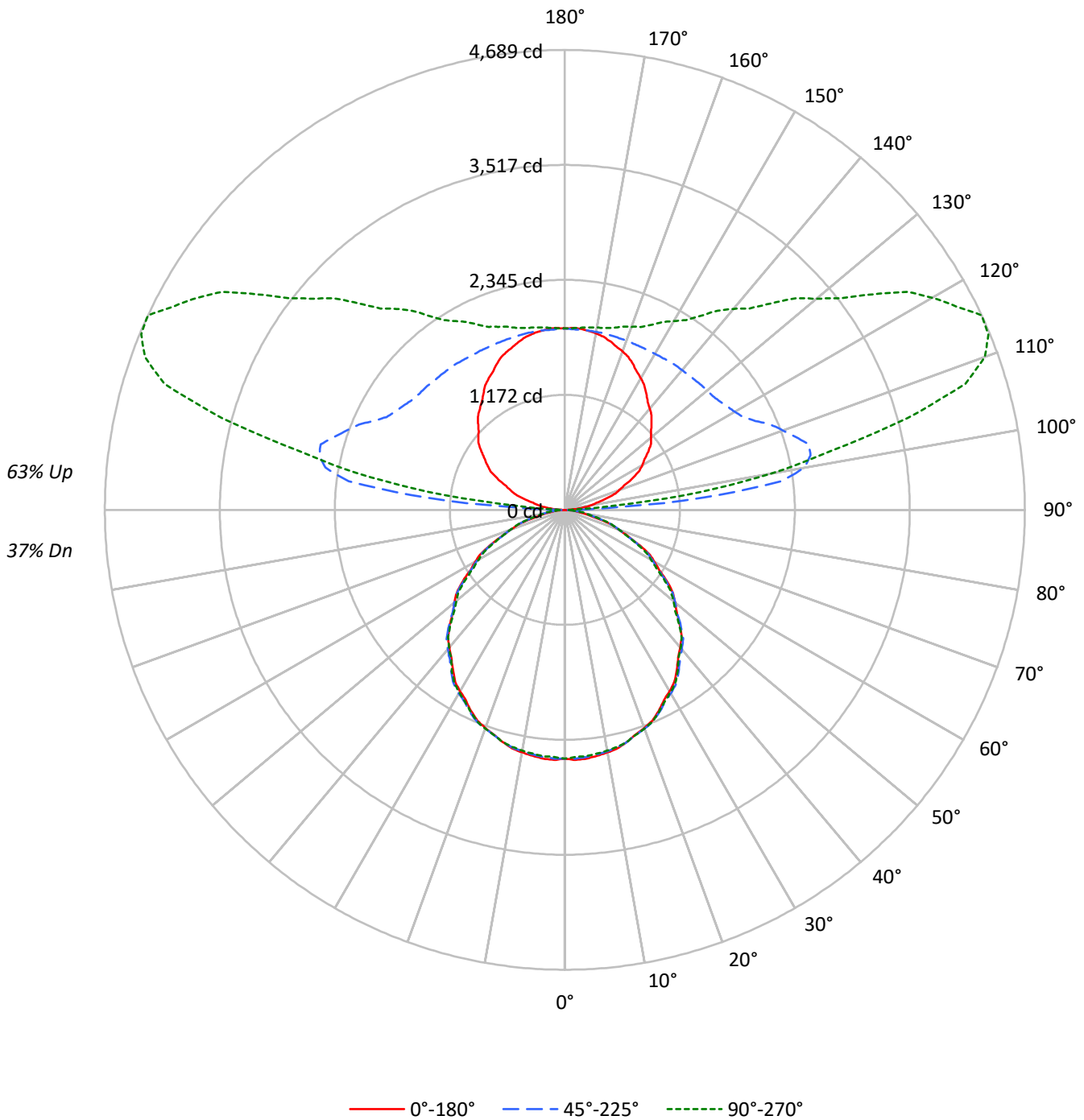
Lumens per Lamp: N/A  
Luminaire Lumens: 18863.5 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 172.4  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7732	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7265	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5983	5864	5812
70°	5239	5281	5260
75°	4215	4661	4690
80°	2995	3953	3994
85°	1824	3317	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.1	1.3
10°-20°	689.1	3.7
20°-30°	1043.5	5.5
30°-40°	1251.0	6.6
40°-50°	1275.6	6.8
50°-60°	1113.5	5.9
60°-70°	797.2	4.2
70°-80°	410.6	2.2
80°-90°	108.2	0.6
90°-100°	864.9	4.6
100°-110°	2329.7	12.4
110°-120°	2444.9	13.0
120°-130°	1984.0	10.5
130°-140°	1556.0	8.2
140°-150°	1194.6	6.3
150°-160°	858.9	4.6
160°-170°	524.8	2.8
170°-180°	177.0	0.9
0°-30°	1972.7	10.5
0°-40°	3223.7	17.1
0°-60°	5612.8	29.8
0°-90°	6928.7	36.7
90°-120°	5639.5	29.9
90°-150°	10374.1	55.0
90°-180°	11935.0	63.3
0°-180°	18863.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2547	2521	2530	2523	2521	242
15°	2450	2430	2450	2450	2448	691
25°	2262	2246	2279	2272	2272	1041
35°	1990	1985	2020	2006	2006	1244
45°	1658	1654	1670	1649	1644	1277
55°	1269	1252	1252	1233	1233	1131
65°	822	804	806	799	799	813
75°	355	371	392	395	395	383
85°	52	79	94	96	94	70
90°	5	14	28	31	31	11
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1912	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2552.2	2530.1	2537.2	2531.3	2522.1
5°	2546.6	2521.3	2530.1	2523.0	2520.7
7.5°	2528.2	2503.0	2514.6	2509.9	2507.6
10°	2511.3	2486.0	2499.6	2494.8	2492.5
12.5°	2488.8	2465.3	2480.8	2476.1	2475.6
15°	2450.2	2429.6	2450.2	2450.2	2447.9
17.5°	2401.8	2383.0	2405.1	2406.5	2405.1
20°	2368.0	2347.3	2375.1	2372.8	2375.1
22.5°	2326.7	2309.7	2339.4	2333.3	2335.6
25°	2262.3	2246.2	2278.7	2271.7	2271.7
27.5°	2186.2	2174.7	2210.1	2202.6	2202.6
30°	2135.4	2124.0	2161.3	2151.9	2151.9
32.5°	2079.1	2071.2	2106.8	2095.5	2095.5
35°	1989.8	1985.2	2020.3	2006.2	2006.2
37.5°	1897.7	1893.6	1925.4	1908.4	1902.9
40°	1830.0	1827.7	1855.9	1837.1	1837.1
42.5°	1762.4	1760.1	1784.5	1761.9	1761.9
45°	1658.5	1654.0	1670.3	1649.0	1644.5
47.5°	1545.3	1540.7	1551.0	1527.9	1525.6
50°	1468.3	1463.7	1468.3	1447.1	1444.8
52.5°	1389.3	1381.1	1381.8	1360.7	1360.2
55°	1268.6	1252.5	1252.1	1233.3	1233.3
57.5°	1140.8	1119.6	1121.5	1105.5	1103.2
60°	1052.4	1029.5	1031.3	1017.2	1014.9
62.5°	966.0	939.4	944.9	928.9	928.4
65°	822.2	803.8	805.8	798.7	798.7
67.5°	684.1	667.1	679.4	673.7	673.3
70°	582.6	571.1	587.3	587.3	585.0
72.5°	488.6	488.2	508.4	508.4	509.8
75°	354.7	370.8	392.3	394.7	394.7
77.5°	236.8	265.3	289.0	289.9	289.4
80°	169.1	201.3	223.2	227.8	225.5
82.5°	114.6	148.6	166.8	171.4	169.1
85°	51.7	79.2	94.0	96.3	94.0
87.5°	16.0	34.4	43.2	43.6	40.0
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)