

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Brand: CORELITE

Report Number: P937616

Luminaire Tested: SQ4-FB-100U-100D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937616
REPORT IS A COMBINATION OF REPORTS P933583 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-100U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

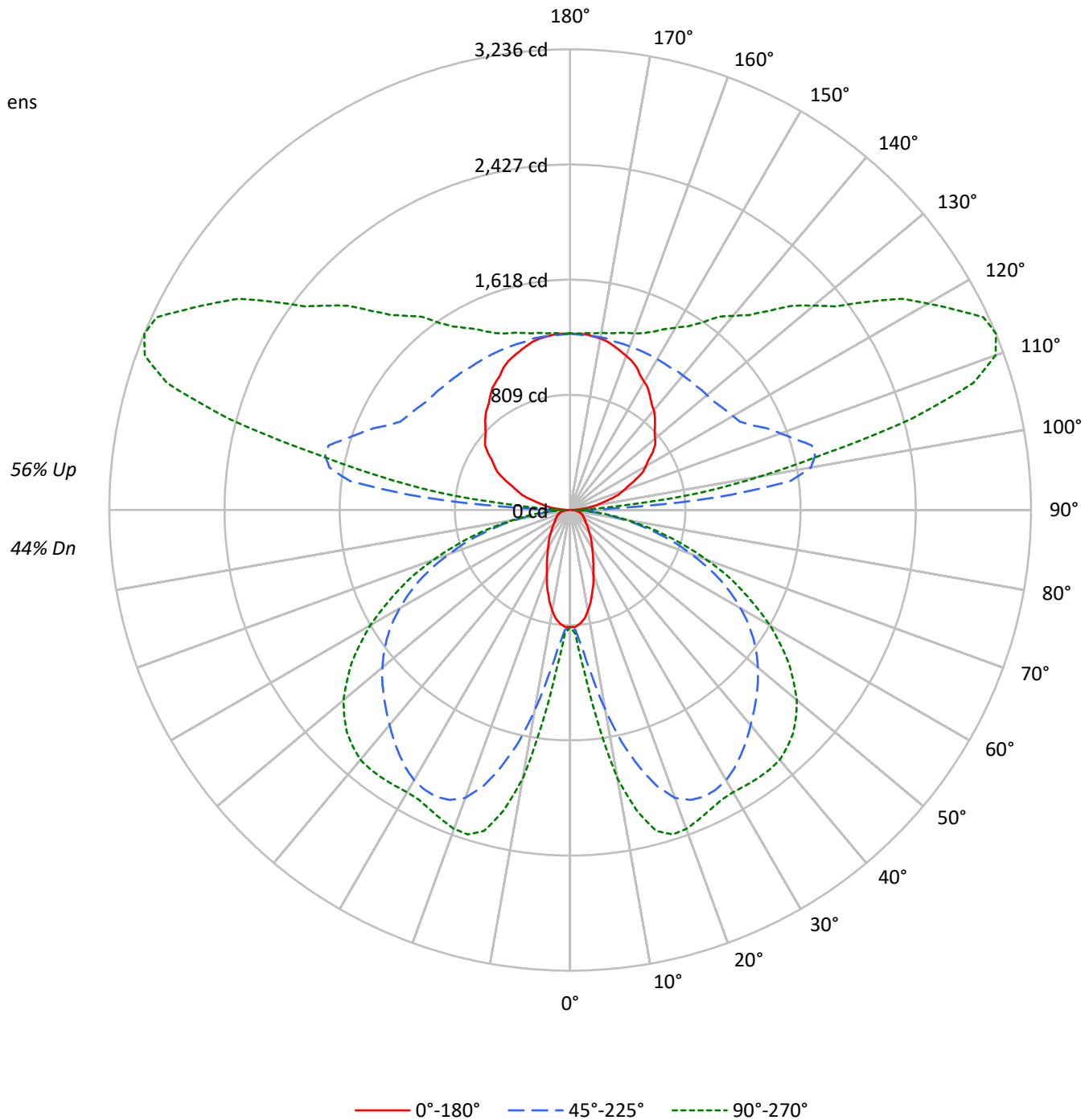
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14398.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 116
Input Voltage (V): NR
Input Current (A_{in}): 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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	0.7
10°-20°	471.2	3.3
20°-30°	824.2	5.7
30°-40°	1061.0	7.4
40°-50°	1185.0	8.2
50°-60°	1135.0	7.9
60°-70°	899.5	6.2
70°-80°	528.9	3.7
80°-90°	151.7	1.1
90°-100°	604.2	4.2
100°-110°	1588.5	11.0
110°-120°	1647.1	11.4
120°-130°	1321.2	9.2
130°-140°	1036.6	7.2
140°-150°	795.7	5.5
150°-160°	573.0	4.0
160°-170°	350.6	2.4
170°-180°	118.4	0.8
0°-30°	1401.7	9.7
0°-40°	2462.6	17.1
0°-60°	4782.7	33.2
0°-90°	6362.7	44.2
90°-120°	3839.8	26.7
90°-150°	6993.2	48.6
90°-180°	8035.0	55.8
0°-180°	14398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	801	859	967	1094	1134	74
15°	600	1107	1866	2262	2334	167
25°	383	1255	2222	2320	2323	176
35°	259	1200	2093	2212	2299	162
45°	177	957	1850	2119	2215	137
55°	127	608	1570	1823	1874	116
65°	100	322	1165	1311	1329	100
75°	74	198	640	703	706	77
85°	26	61	159	174	177	28
90°	8	23	63	32	32	9
95°	80	313	1041	537	365	89
105°	286	433	1756	2666	2487	303
115°	508	617	1407	2806	3203	502
125°	707	793	1279	2162	2551	628
135°	843	928	1240	1745	1979	652
145°	978	1040	1224	1489	1606	612
155°	1105	1136	1224	1344	1383	508
165°	1192	1208	1224	1272	1288	336
175°	1240	1240	1232	1248	1248	118
180°	1240	1240	1240	1240	1240	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	821.9	821.9	827.2	829.8	835.1	837.7	843.0	848.3	864.2	866.8	872.1
5°	800.7	811.3	845.7	858.9	895.9	946.1	967.2	1001.6	1072.9	1094.1	1107.3
7.5°	769.0	792.8	877.4	898.5	991.0	1123.1	1178.6	1252.6	1366.3	1421.8	1466.7
10°	718.8	769.0	919.7	969.9	1120.5	1321.3	1424.4	1527.5	1699.2	1775.9	1804.9
12.5°	663.3	745.2	964.6	1033.3	1250.0	1543.3	1667.5	1781.2	1976.7	2079.8	2095.6
15°	599.9	710.9	1006.9	1107.3	1387.4	1728.3	1865.7	2005.8	2188.1	2262.1	2280.6
17.5°	544.4	684.5	1046.5	1152.2	1493.1	1894.8	2034.9	2151.1	2299.1	2349.3	2362.6
20°	475.7	642.2	1072.9	1210.3	1604.1	2016.4	2151.1	2241.0	2341.4	2373.1	2378.4
22.5°	425.5	597.2	1088.8	1231.5	1678.1	2090.4	2204.0	2275.3	2344.1	2354.6	2357.3
25°	383.2	547.0	1086.1	1255.3	1741.5	2135.3	2222.5	2275.3	2315.0	2320.3	2320.3
27.5°	343.5	491.5	1075.6	1260.6	1789.1	2145.9	2214.6	2251.6	2270.1	2280.6	2280.6
30°	309.2	438.7	1049.1	1250.0	1810.2	2135.3	2190.8	2209.3	2227.8	2243.6	2251.6
32.5°	282.8	388.5	1009.5	1228.8	1812.9	2108.9	2148.5	2159.1	2185.5	2222.5	2235.7
35°	259.0	338.3	964.6	1199.8	1797.0	2066.6	2093.0	2103.6	2156.4	2211.9	2230.4
37.5°	235.2	301.3	906.4	1149.6	1773.2	2016.4	2034.9	2053.4	2135.3	2201.3	2222.5
40°	211.4	269.6	837.7	1094.1	1736.2	1955.6	1971.4	2000.5	2108.9	2185.5	2206.6
42.5°	192.9	243.1	763.7	1035.9	1688.7	1886.9	1910.7	1952.9	2077.1	2159.1	2182.9
45°	177.1	216.7	684.5	956.6	1627.9	1815.5	1849.9	1908.0	2040.1	2119.4	2140.6
47.5°	161.2	198.2	602.5	874.7	1561.8	1744.2	1789.1	1855.2	1989.9	2066.6	2085.1
50°	148.0	179.7	520.6	787.5	1490.5	1667.5	1720.4	1789.1	1926.5	1997.9	2021.6
52.5°	137.4	163.8	444.0	700.3	1408.5	1588.2	1649.0	1720.4	1849.9	1918.6	1934.4
55°	126.8	150.6	377.9	607.8	1324.0	1503.7	1569.7	1638.5	1765.3	1823.4	1834.0
57.5°	121.6	140.1	322.4	520.6	1234.1	1408.5	1482.5	1546.0	1664.9	1709.8	1720.4
60°	113.6	132.1	280.1	446.6	1136.4	1318.7	1382.1	1445.5	1546.0	1583.0	1590.9
62.5°	105.7	126.8	248.4	375.3	1035.9	1213.0	1276.4	1334.6	1419.1	1445.5	1456.1
65°	100.4	121.6	224.6	322.4	932.9	1102.0	1165.4	1215.6	1284.3	1310.8	1316.1
67.5°	95.1	116.3	206.1	277.5	829.8	991.0	1038.6	1086.1	1139.0	1165.4	1168.1
70°	87.2	111.0	190.3	245.8	724.1	864.2	903.8	954.0	996.3	1009.5	1017.4
72.5°	81.9	103.1	179.7	222.0	615.7	742.6	779.6	808.7	845.7	858.9	858.9
75°	74.0	92.5	169.1	198.2	504.8	607.8	639.5	668.6	697.7	703.0	695.0
77.5°	66.1	81.9	145.3	166.5	393.8	481.0	507.4	523.2	547.0	552.3	555.0
80°	55.5	71.4	113.6	129.5	285.4	354.1	372.6	385.8	407.0	407.0	412.3
82.5°	42.3	55.5	81.9	92.5	192.9	243.1	259.0	266.9	280.1	280.1	280.1
85°	26.4	34.4	52.9	60.8	116.3	148.0	158.6	161.2	171.8	174.4	174.4
87.5°	13.2	18.5	34.4	37.0	60.8	76.6	76.6	81.9	81.9	79.3	76.6
90°	8.3	15.0	21.6	23.3	36.6	54.3	63.2	56.2	42.1	31.6	31.6
92.5°	33.3	89.9	146.5	160.6	225.7	312.6	356.0	312.0	224.1	158.1	151.8
95°	79.9	183.4	286.9	312.8	555.4	878.9	1040.7	928.7	704.6	536.6	517.6
97.5°	138.1	229.4	320.8	343.6	748.2	1287.6	1557.3	1486.5	1344.9	1238.7	1202.5
100°	183.0	265.8	348.7	369.4	818.3	1416.9	1716.2	1721.4	1731.7	1739.5	1696.3
102.5°	221.3	298.5	375.8	395.1	850.4	1457.5	1761.1	1851.3	2031.8	2167.1	2130.1
105°	286.2	351.6	417.0	433.4	874.3	1462.2	1756.1	1958.3	2362.8	2666.2	2646.3
107.5°	352.7	413.7	474.7	490.0	878.8	1397.1	1656.3	1938.4	2502.6	2925.7	2930.5
110°	397.6	452.7	507.8	521.6	872.1	1339.4	1573.1	1888.5	2519.2	2992.3	3013.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	441.7	494.2	546.8	559.9	872.4	1289.1	1497.4	1820.2	2465.7	2949.9	2981.7
115°	508.3	556.7	605.2	617.3	880.4	1231.3	1406.7	1717.7	2339.6	2806.0	2850.1
117.5°	574.0	618.0	662.0	673.0	896.8	1195.1	1344.3	1624.9	2186.2	2607.1	2656.0
120°	612.3	653.7	695.1	705.4	910.1	1183.0	1319.4	1575.8	2088.6	2473.2	2520.7
122.5°	649.7	691.5	733.3	743.7	929.2	1176.5	1300.2	1531.1	1992.9	2339.3	2386.2
125°	707.1	745.2	783.3	792.8	955.0	1171.3	1279.4	1475.6	1867.9	2162.1	2205.3
127.5°	753.7	792.1	830.6	840.2	980.8	1168.3	1262.0	1430.4	1767.2	2019.8	2056.2
130°	778.6	820.0	861.4	871.8	999.6	1170.1	1255.3	1405.2	1705.1	1930.0	1963.6
132.5°	804.4	845.8	887.2	897.6	1014.9	1171.3	1249.5	1383.7	1652.1	1853.4	1883.5
135°	842.7	880.4	918.2	927.6	1031.6	1170.2	1239.5	1351.9	1576.7	1745.3	1771.3
137.5°	881.8	919.1	956.5	965.8	1056.5	1177.4	1237.8	1332.8	1522.9	1665.4	1686.7
140°	914.2	948.6	983.0	991.6	1071.7	1178.6	1232.0	1314.1	1478.3	1601.4	1621.3
142.5°	939.2	971.0	1002.8	1010.7	1084.5	1182.8	1232.0	1304.1	1448.3	1556.5	1573.6
145°	977.5	1005.2	1033.0	1039.9	1101.2	1182.9	1223.7	1282.7	1400.6	1489.1	1502.0
147.5°	1015.7	1042.7	1069.7	1076.5	1125.6	1191.0	1223.7	1270.1	1362.9	1432.5	1443.2
150°	1040.7	1065.1	1089.5	1095.6	1138.3	1195.2	1223.7	1262.9	1341.3	1400.1	1408.8
152.5°	1066.5	1085.0	1103.5	1108.1	1146.6	1198.0	1223.7	1257.2	1324.1	1374.3	1380.9
155°	1104.7	1118.4	1132.1	1135.5	1164.9	1204.1	1223.7	1250.3	1303.6	1343.5	1347.8
157.5°	1133.0	1146.3	1159.7	1163.0	1183.2	1210.2	1223.7	1244.4	1285.8	1316.9	1319.9
160°	1152.2	1162.6	1172.9	1175.5	1191.6	1213.0	1223.7	1241.5	1277.0	1303.6	1305.4
162.5°	1171.3	1179.1	1186.9	1188.8	1200.4	1215.9	1223.7	1238.7	1268.6	1291.1	1292.8
165°	1192.1	1199.1	1206.1	1207.9	1213.2	1220.2	1223.7	1234.4	1255.9	1272.0	1273.8
167.5°	1211.2	1214.5	1217.9	1218.7	1223.1	1229.0	1232.0	1239.0	1253.1	1263.6	1264.3
170°	1223.7	1227.0	1230.4	1231.2	1231.5	1231.8	1232.0	1239.0	1253.1	1263.6	1263.6
172.5°	1230.4	1231.1	1231.8	1232.0	1232.0	1232.0	1232.0	1237.6	1248.7	1257.0	1256.4
175°	1239.5	1239.5	1239.5	1239.5	1237.0	1233.7	1232.0	1235.5	1242.5	1247.8	1247.8
177.5°	1239.5	1239.5	1239.5	1239.5	1237.6	1235.0	1233.7	1236.5	1242.0	1246.2	1245.5
180°	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	821.9	821.9
2.5°	877.4	872.1
5°	1128.4	1133.7
7.5°	1519.5	1516.9
10°	1889.5	1913.3
12.5°	2159.1	2164.4
15°	2322.9	2333.5
17.5°	2386.3	2389.0
20°	2389.0	2383.7
22.5°	2359.9	2354.6
25°	2325.6	2322.9
27.5°	2293.8	2296.5
30°	2280.6	2288.6
32.5°	2280.6	2293.8
35°	2285.9	2299.1
37.5°	2283.3	2299.1
40°	2272.7	2291.2
42.5°	2243.6	2256.8
45°	2198.7	2214.6
47.5°	2140.6	2151.1
50°	2066.6	2077.1
52.5°	1974.1	1976.7
55°	1863.1	1873.7
57.5°	1744.2	1746.8
60°	1612.0	1620.0
62.5°	1472.0	1472.0
65°	1324.0	1329.3
67.5°	1170.7	1183.9
70°	1014.8	1017.4
72.5°	861.5	861.5
75°	703.0	705.6
77.5°	552.3	552.3
80°	409.6	412.3
82.5°	282.8	288.1
85°	177.1	177.1
87.5°	81.9	74.0
90°	31.6	31.6
92.5°	126.7	101.5
95°	441.4	365.2
97.5°	1057.5	912.6
100°	1523.7	1351.0
102.5°	1982.2	1834.3
105°	2566.8	2487.3
107.5°	2949.8	2969.0
110°	3095.8	3178.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3108.8	3236.0
115°	3026.4	3202.8
117.5°	2851.6	3047.2
120°	2710.8	2900.8
122.5°	2573.6	2761.0
125°	2377.9	2550.6
127.5°	2201.9	2347.6
130°	2098.2	2232.8
132.5°	2004.1	2124.6
135°	1875.2	1979.1
137.5°	1771.7	1856.8
140°	1700.7	1780.2
142.5°	1642.0	1710.4
145°	1553.8	1605.5
147.5°	1486.1	1529.0
150°	1443.5	1478.3
152.5°	1407.1	1433.3
155°	1365.2	1382.6
157.5°	1332.1	1344.3
160°	1312.4	1319.4
162.5°	1299.4	1306.1
165°	1280.8	1287.8
167.5°	1267.3	1270.3
170°	1263.6	1263.6
172.5°	1253.8	1251.2
175°	1247.8	1247.8
177.5°	1242.5	1239.5
180°	1239.5	1239.5



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	5.10	5.94	6.10	6.96	8.31	18.28	19.12	19.28	20.14	21.49
	3H	5.81	6.56	6.81	7.59	8.96	20.12	20.88	21.13	21.90	23.27
	4H	6.10	6.82	7.12	7.85	9.22	20.76	21.48	21.78	22.51	23.88
	6H	6.35	7.02	7.38	8.05	9.44	21.19	21.85	22.22	22.89	24.28
	8H	6.42	7.05	7.46	8.10	9.48	21.31	21.94	22.35	22.99	24.38
	12H	6.44	7.04	7.48	8.08	9.49	21.38	21.98	22.42	23.02	24.43
4H	2H	12.31	13.03	13.34	14.06	15.44	18.55	19.27	19.58	20.30	21.67
	3H	13.88	14.48	14.92	15.54	16.93	20.60	21.20	21.63	22.25	23.64
	4H	13.97	14.53	15.02	15.57	16.98	21.36	21.91	22.41	22.96	24.37
	6H	13.98	14.46	15.04	15.53	16.94	21.90	22.38	22.95	23.45	24.85
	8H	13.96	14.40	15.01	15.47	16.89	22.06	22.51	23.12	23.57	24.99
	12H	13.92	14.32	14.99	15.39	16.82	22.15	22.56	23.23	23.63	25.06
8H	4H	15.42	15.86	16.47	16.92	18.35	21.42	21.87	22.48	22.93	24.35
	6H	15.66	16.03	16.74	17.13	18.55	22.05	22.42	23.13	23.52	24.94
	8H	15.68	16.00	16.76	17.09	18.53	22.27	22.59	23.35	23.68	25.12
	12H	15.64	15.93	16.73	17.01	18.49	22.41	22.70	23.50	23.78	25.26
12H	4H	15.56	15.96	16.63	17.04	18.47	21.37	21.78	22.45	22.85	24.28
	6H	15.92	16.24	17.00	17.33	18.77	22.03	22.36	23.12	23.44	24.88
	8H	15.99	16.27	17.08	17.35	18.83	22.26	22.55	23.35	23.63	25.11