

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: P937949

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937949
REPORT IS A COMBINATION OF REPORTS P933590 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

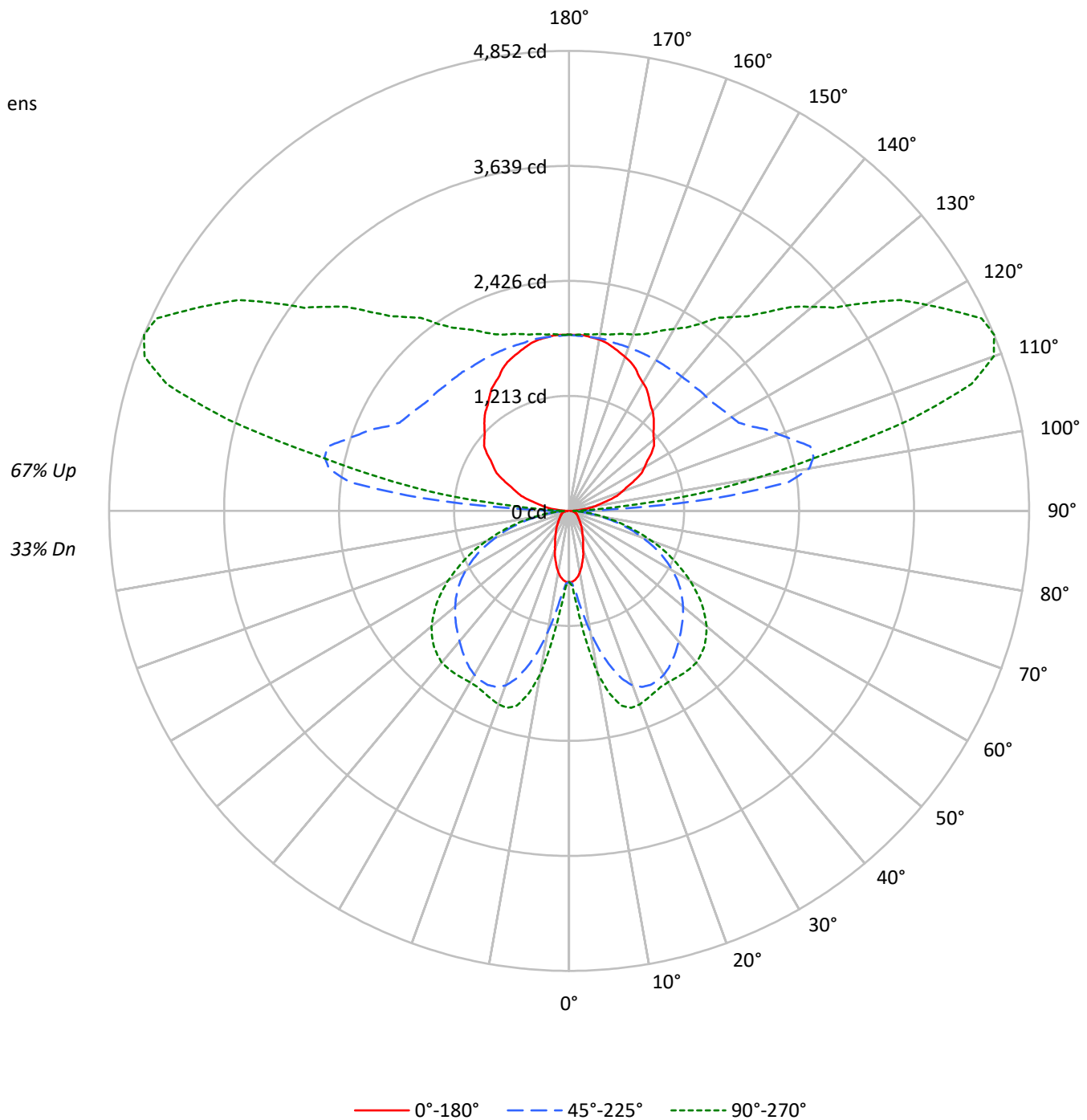
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17850.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 166.8
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°	96.9	0.5
10°-20°	429.5	2.4
20°-30°	751.3	4.2
30°-40°	967.2	5.4
40°-50°	1080.3	6.1
50°-60°	1034.7	5.8
60°-70°	820.0	4.6
70°-80°	482.2	2.7
80°-90°	141.0	0.8
90°-100°	905.9	5.1
100°-110°	2381.7	13.3
110°-120°	2469.5	13.8
120°-130°	1980.9	11.1
130°-140°	1554.3	8.7
140°-150°	1193.0	6.7
150°-160°	859.1	4.8
160°-170°	525.7	2.9
170°-180°	177.6	1.0
0°-30°	1277.8	7.2
0°-40°	2244.9	12.6
0°-60°	4359.9	24.4
0°-90°	5803.1	32.5
90°-120°	5757.1	32.3
90°-150°	10485.2	58.7
90°-180°	12048.0	67.5
0°-180°	17850.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	730	783	882	997	1034	67
15°	547	1010	1701	2062	2127	152
25°	349	1144	2026	2115	2118	161
35°	236	1094	1908	2016	2096	147
45°	161	872	1686	1932	2019	125
55°	116	554	1431	1662	1708	105
65°	92	294	1062	1195	1212	91
75°	68	181	583	641	643	71
85°	24	55	144	159	161	26
90°	12	35	95	47	47	12
95°	120	469	1560	804	548	133
105°	429	650	2633	3998	3729	455
115°	762	926	2109	4207	4802	753
125°	1060	1189	1918	3242	3824	941
135°	1264	1391	1858	2617	2967	978
145°	1466	1559	1835	2233	2407	918
155°	1656	1702	1835	2014	2073	761
165°	1787	1811	1835	1907	1931	504
175°	1858	1858	1847	1871	1871	176
180°	1858	1858	1858	1858	1858	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2
2.5°	749.2	749.2	754.0	756.4	761.2	763.7	768.5	773.3	787.7	790.2	795.0
5°	729.9	739.6	770.9	782.9	816.7	862.4	881.7	913.1	978.1	997.4	1009.5
7.5°	701.0	722.7	799.8	819.1	903.4	1023.9	1074.5	1141.9	1245.5	1296.1	1337.1
10°	655.2	701.0	838.3	884.1	1021.5	1204.6	1298.5	1392.5	1549.1	1618.9	1645.4
12.5°	604.7	679.3	879.3	942.0	1139.5	1406.9	1520.2	1623.7	1802.0	1896.0	1910.4
15°	546.8	648.0	917.9	1009.5	1264.8	1575.6	1700.8	1828.5	1994.7	2062.2	2079.0
17.5°	496.3	623.9	954.0	1050.4	1361.2	1727.3	1855.0	1961.0	2095.9	2141.7	2153.7
20°	433.6	585.4	978.1	1103.4	1462.3	1838.1	1961.0	2042.9	2134.5	2163.4	2168.2
22.5°	387.8	544.4	992.6	1122.7	1529.8	1905.6	2009.2	2074.2	2136.9	2146.5	2148.9
25°	349.3	498.7	990.2	1144.4	1587.6	1946.6	2026.0	2074.2	2110.4	2115.2	2115.2
27.5°	313.2	448.1	980.5	1149.2	1631.0	1956.2	2018.8	2052.5	2069.4	2079.0	2079.0
30°	281.9	399.9	956.5	1139.5	1650.2	1946.6	1997.1	2014.0	2030.9	2045.3	2052.5
32.5°	257.8	354.1	920.3	1120.3	1652.7	1922.5	1958.6	1968.2	1992.3	2026.0	2038.1
35°	236.1	308.4	879.3	1093.8	1638.2	1883.9	1908.0	1917.6	1965.8	2016.4	2033.3
37.5°	214.4	274.6	826.3	1048.0	1616.5	1838.1	1855.0	1871.9	1946.6	2006.8	2026.0
40°	192.7	245.7	763.7	997.4	1582.8	1782.7	1797.2	1823.7	1922.5	1992.3	2011.6
42.5°	175.9	221.6	696.2	944.4	1539.4	1720.1	1741.8	1780.3	1893.6	1968.2	1989.9
45°	161.4	197.5	623.9	872.1	1484.0	1655.1	1686.4	1739.4	1859.8	1932.1	1951.4
47.5°	146.9	180.7	549.3	797.4	1423.8	1590.0	1631.0	1691.2	1814.1	1883.9	1900.8
50°	134.9	163.8	474.6	717.9	1358.8	1520.2	1568.3	1631.0	1756.2	1821.3	1843.0
52.5°	125.3	149.4	404.7	638.4	1284.1	1447.9	1503.3	1568.3	1686.4	1749.0	1763.5
55°	115.6	137.3	344.5	554.1	1207.0	1370.8	1431.0	1493.7	1609.3	1662.3	1671.9
57.5°	110.8	127.7	293.9	474.6	1125.1	1284.1	1351.5	1409.3	1517.8	1558.7	1568.3
60°	103.6	120.4	255.4	407.1	1036.0	1202.2	1260.0	1317.8	1409.3	1443.1	1450.3
62.5°	96.4	115.6	226.4	342.1	944.4	1105.8	1163.6	1216.6	1293.7	1317.8	1327.4
65°	91.5	110.8	204.8	293.9	850.4	1004.6	1062.4	1108.2	1170.9	1194.9	1199.8
67.5°	86.7	106.0	187.9	252.9	756.4	903.4	946.8	990.2	1038.4	1062.4	1064.9
70°	79.5	101.2	173.4	224.0	660.1	787.7	823.9	869.6	908.2	920.3	927.5
72.5°	74.7	94.0	163.8	202.4	561.3	676.9	710.7	737.2	770.9	782.9	782.9
75°	67.5	84.3	154.2	180.7	460.1	554.1	583.0	609.5	636.0	640.8	633.6
77.5°	60.2	74.7	132.5	151.8	358.9	438.4	462.5	477.0	498.7	503.5	505.9
80°	50.6	65.0	103.6	118.0	260.2	322.8	339.7	351.7	371.0	371.0	375.8
82.5°	38.5	50.6	74.7	84.3	175.9	221.6	236.1	243.3	255.4	255.4	255.4
85°	24.1	31.3	48.2	55.4	106.0	134.9	144.5	146.9	156.6	159.0	159.0
87.5°	12.0	16.9	31.3	33.7	55.4	69.9	69.9	74.7	74.7	72.3	69.9
90°	12.4	22.4	32.4	34.9	54.8	81.4	94.8	84.2	63.2	47.4	47.4
92.5°	49.9	134.7	219.5	240.7	338.5	468.7	533.8	467.8	335.9	237.0	227.6
95°	119.7	274.9	430.2	469.0	832.7	1317.8	1560.3	1392.3	1056.4	804.5	775.9
97.5°	207.0	343.9	480.9	515.1	1121.7	1930.5	2334.9	2228.7	2016.4	1857.2	1802.8
100°	274.4	398.6	522.8	553.8	1226.9	2124.4	2573.1	2580.9	2596.4	2608.1	2543.3
102.5°	331.8	447.7	563.5	592.5	1275.2	2185.4	2640.5	2775.7	3046.3	3249.2	3193.8
105°	429.0	527.2	625.3	649.9	1310.9	2192.3	2633.0	2936.2	3542.7	3997.5	3967.7
107.5°	528.9	620.3	711.8	734.7	1317.6	2094.8	2483.4	2906.3	3752.2	4386.6	4393.9
110°	596.2	678.8	761.4	782.0	1307.5	2008.2	2358.6	2831.5	3777.2	4486.4	4517.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	662.3	741.0	819.7	839.4	1307.9	1932.7	2245.1	2729.1	3696.9	4422.8	4470.5
115°	762.0	834.6	907.3	925.5	1320.1	1846.1	2109.2	2575.4	3507.7	4207.1	4273.2
117.5°	860.7	926.6	992.6	1009.0	1344.5	1791.9	2015.6	2436.4	3277.8	3908.9	3982.2
120°	918.0	980.1	1042.2	1057.7	1364.5	1773.7	1978.2	2362.7	3131.5	3708.2	3779.4
122.5°	974.1	1036.8	1099.4	1115.0	1393.2	1764.1	1949.5	2295.7	2988.0	3507.3	3577.6
125°	1060.2	1117.3	1174.4	1188.7	1431.9	1756.2	1918.3	2212.3	2800.5	3241.6	3306.4
127.5°	1130.1	1187.7	1245.4	1259.7	1470.5	1751.6	1892.1	2144.6	2649.6	3028.4	3083.0
130°	1167.5	1229.6	1291.6	1307.1	1498.8	1754.4	1882.2	2106.9	2556.5	2893.7	2944.1
132.5°	1206.1	1268.2	1330.3	1345.8	1521.7	1756.2	1873.4	2074.6	2477.1	2778.9	2824.2
135°	1263.5	1320.1	1376.6	1390.7	1546.7	1754.6	1858.5	2027.0	2364.0	2616.8	2655.8
137.5°	1322.1	1378.1	1434.1	1448.0	1584.0	1765.3	1856.0	1998.4	2283.3	2497.0	2528.9
140°	1370.7	1422.3	1473.8	1486.8	1606.9	1767.1	1847.2	1970.2	2216.4	2401.0	2430.8
142.5°	1408.1	1455.8	1503.5	1515.4	1626.0	1773.5	1847.2	1955.3	2171.6	2333.7	2359.3
145°	1465.6	1507.2	1548.7	1559.1	1651.0	1773.5	1834.8	1923.2	2100.0	2232.6	2252.0
147.5°	1522.9	1563.4	1603.8	1613.9	1687.6	1785.7	1834.8	1904.3	2043.5	2147.8	2163.8
150°	1560.3	1596.9	1633.5	1642.7	1706.7	1792.1	1834.8	1893.6	2011.0	2099.1	2112.1
152.5°	1599.0	1626.7	1654.5	1661.4	1719.2	1796.2	1834.8	1885.0	1985.3	2060.5	2070.4
155°	1656.3	1676.9	1697.4	1702.5	1746.6	1805.4	1834.8	1874.7	1954.5	2014.3	2020.8
157.5°	1698.8	1718.7	1738.7	1743.7	1774.1	1814.5	1834.8	1865.8	1927.8	1974.4	1979.0
160°	1727.5	1743.0	1758.6	1762.4	1786.5	1818.7	1834.8	1861.4	1914.6	1954.5	1957.2
162.5°	1756.2	1767.8	1779.4	1782.3	1799.8	1823.1	1834.8	1857.3	1902.1	1935.8	1938.3
165°	1787.3	1797.8	1808.4	1811.0	1819.0	1829.5	1834.8	1850.8	1883.0	1907.0	1909.7
167.5°	1816.1	1821.0	1826.0	1827.2	1833.9	1842.8	1847.2	1857.7	1878.8	1894.6	1895.7
170°	1834.8	1839.8	1844.7	1845.9	1846.3	1846.9	1847.2	1857.7	1878.8	1894.6	1894.6
172.5°	1844.7	1845.9	1847.0	1847.2	1847.2	1847.2	1847.2	1855.6	1872.2	1884.6	1883.7
175°	1858.5	1858.5	1858.5	1858.5	1854.7	1849.7	1847.2	1852.5	1863.0	1870.9	1870.9
177.5°	1858.5	1858.5	1858.5	1858.5	1855.6	1851.6	1849.7	1853.9	1862.2	1868.4	1867.3
180°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	749.2	749.2
2.5°	799.8	795.0
5°	1028.7	1033.5
7.5°	1385.3	1382.8
10°	1722.5	1744.2
12.5°	1968.2	1973.1
15°	2117.6	2127.2
17.5°	2175.4	2177.8
20°	2177.8	2173.0
22.5°	2151.3	2146.5
25°	2120.0	2117.6
27.5°	2091.1	2093.5
30°	2079.0	2086.3
32.5°	2079.0	2091.1
35°	2083.9	2095.9
37.5°	2081.5	2095.9
40°	2071.8	2088.7
42.5°	2045.3	2057.4
45°	2004.4	2018.8
47.5°	1951.4	1961.0
50°	1883.9	1893.6
52.5°	1799.6	1802.0
55°	1698.4	1708.1
57.5°	1590.0	1592.4
60°	1469.6	1476.8
62.5°	1341.9	1341.9
65°	1207.0	1211.8
67.5°	1067.3	1079.3
70°	925.1	927.5
72.5°	785.3	785.3
75°	640.8	643.2
77.5°	503.5	503.5
80°	373.4	375.8
82.5°	257.8	262.6
85°	161.4	161.4
87.5°	74.7	67.5
90°	47.4	47.4
92.5°	189.8	152.2
95°	661.8	547.6
97.5°	1585.5	1368.2
100°	2284.5	2025.6
102.5°	2972.0	2750.3
105°	3848.5	3729.4
107.5°	4422.7	4451.5
110°	4641.7	4765.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	4661.2	4851.9
115°	4537.6	4802.0
117.5°	4275.5	4568.7
120°	4064.3	4349.2
122.5°	3858.7	4139.7
125°	3565.2	3824.1
127.5°	3301.4	3519.8
130°	3145.9	3347.7
132.5°	3004.8	3185.5
135°	2811.5	2967.2
137.5°	2656.4	2783.9
140°	2550.0	2669.2
142.5°	2461.8	2564.4
145°	2329.6	2407.2
147.5°	2228.2	2292.5
150°	2164.3	2216.4
152.5°	2109.7	2149.1
155°	2046.9	2072.9
157.5°	1997.3	2015.6
160°	1967.7	1978.2
162.5°	1948.2	1958.2
165°	1920.2	1930.8
167.5°	1900.1	1904.6
170°	1894.6	1894.6
172.5°	1879.7	1875.9
175°	1870.9	1870.9
177.5°	1862.9	1858.5
180°	1858.5	1858.5



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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	2.07	2.81	3.16	3.90	5.40	15.26	16.01	16.35	17.10	18.59
	3H	2.76	3.43	3.86	4.53	6.05	17.10	17.76	18.19	18.86	20.38
	4H	3.06	3.69	4.16	4.79	6.31	17.74	18.37	18.85	19.48	21.00
	6H	3.30	3.89	4.42	4.99	6.52	18.17	18.75	19.28	19.86	21.39
	8H	3.37	3.92	4.49	5.04	6.57	18.29	18.84	19.41	19.96	21.49
	12H	3.38	3.91	4.50	5.02	6.57	18.35	18.88	19.48	20.00	21.55
4H	2H	9.28	9.91	10.39	11.01	12.53	15.52	16.15	16.63	17.26	18.78
	3H	10.83	11.36	11.95	12.49	14.03	17.56	18.09	18.68	19.22	20.75
	4H	10.92	11.41	12.05	12.53	14.08	18.32	18.81	19.45	19.93	21.48
	6H	10.93	11.35	12.06	12.49	14.03	18.86	19.28	19.99	20.42	21.97
	8H	10.90	11.29	12.03	12.42	13.99	19.02	19.41	20.15	20.55	22.11
	12H	10.85	11.21	12.00	12.35	13.92	19.11	19.47	20.26	20.61	22.18
8H	4H	12.36	12.75	13.49	13.88	15.45	18.37	18.77	19.51	19.90	21.46
	6H	12.60	12.92	13.75	14.09	15.65	19.00	19.33	20.16	20.50	22.06
	8H	12.61	12.90	13.77	14.05	15.63	19.22	19.51	20.38	20.66	22.24
	12H	12.58	12.83	13.74	13.98	15.59	19.37	19.61	20.53	20.76	22.38
12H	4H	12.50	12.85	13.65	14.00	15.57	18.32	18.68	19.47	19.82	21.39
	6H	12.86	13.14	14.01	14.29	15.87	18.98	19.27	20.14	20.42	22.00
	8H	12.92	13.17	14.08	14.32	15.93	19.21	19.46	20.38	20.61	22.22