

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: P936310

Luminaire Tested: SQ4-FB-025U-075D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936310
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

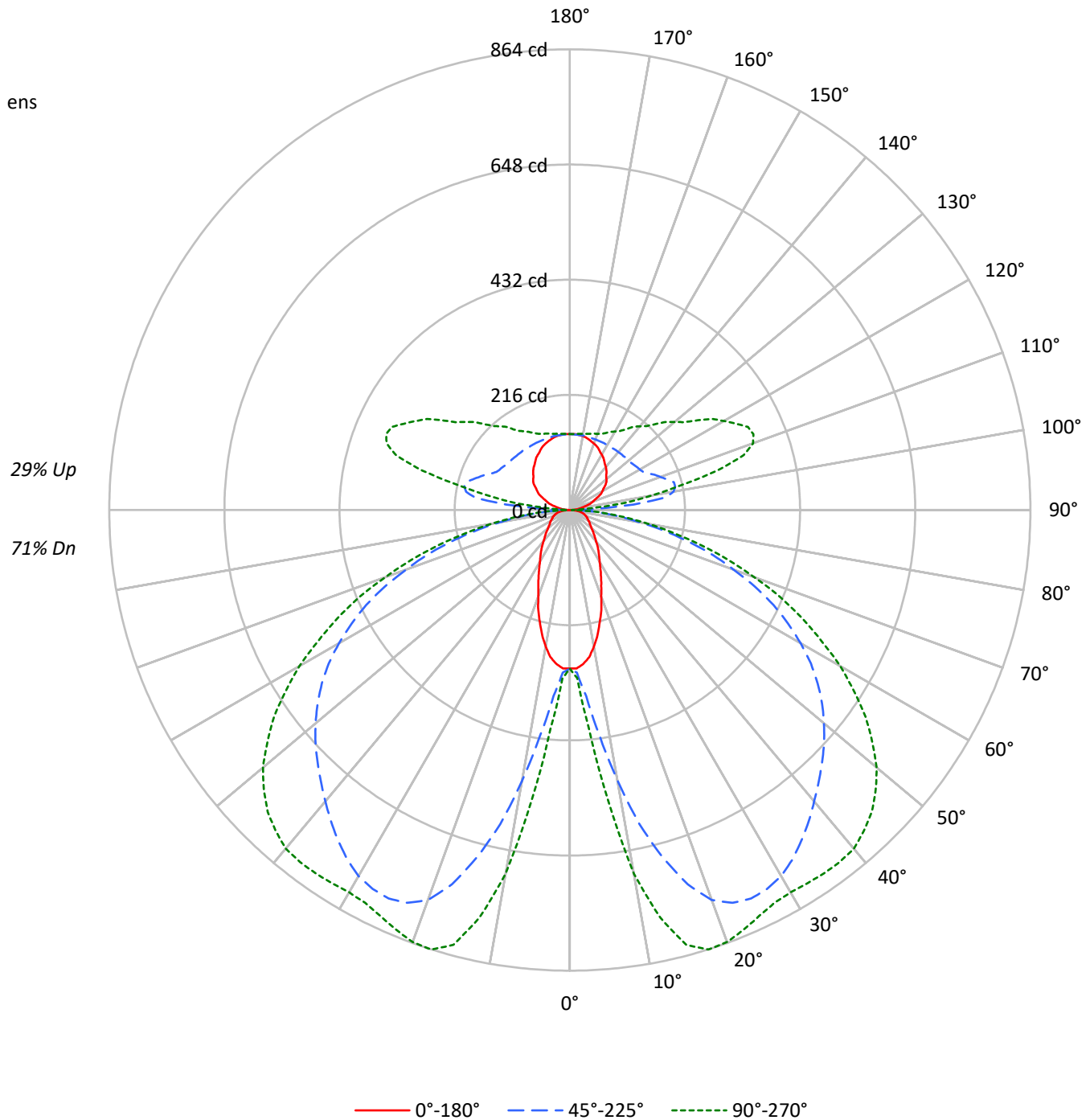
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.4 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 30
Input Voltage (V): NR
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	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2759	2759	2759
5°	2693	3186	3708
10°	2439	4641	6147
15°	2071	6059	7423
20°	1684	7017	7565
25°	1403	7337	7412
30°	1182	7378	7398
35°	1043	7250	7589
40°	908	7085	7787
45°	821	6961	7817
50°	750	6850	7688
55°	717	6689	7347
60°	731	6387	6809
65°	756	5931	6070
70°	800	5163	5128
75°	879	4199	4002
80°	941	2901	2696
85°	795	1532	1381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7817 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.2
10°-20°	170.5	5.3
20°-30°	298.1	9.2
30°-40°	383.8	11.9
40°-50°	428.7	13.3
50°-60°	410.6	12.7
60°-70°	325.4	10.1
70°-80°	191.3	5.9
80°-90°	53.7	1.7
90°-100°	69.5	2.2
100°-110°	182.8	5.7
110°-120°	189.6	5.9
120°-130°	152.1	4.7
130°-140°	119.3	3.7
140°-150°	91.6	2.8
150°-160°	65.9	2.0
160°-170°	40.3	1.3
170°-180°	13.6	0.4
0°-30°	507.1	15.7
0°-40°	890.9	27.6
0°-60°	1730.2	53.6
0°-90°	2300.6	71.3
90°-120°	442.0	13.7
90°-150°	804.9	25.0
90°-180°	925.0	28.7
0°-180°	3225.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	290	311	350	396	410	27
15°	217	401	675	818	844	60
25°	139	454	804	839	840	64
35°	94	434	757	800	832	59
45°	64	346	669	767	801	50
55°	46	220	568	660	678	42
65°	36	117	422	474	481	36
75°	27	72	231	254	255	28
85°	10	22	57	63	64	10
90°	1	3	7	4	4	1
95°	9	36	120	62	42	10
105°	33	50	202	307	286	35
115°	58	71	162	323	369	58
125°	81	91	147	249	294	72
135°	97	107	143	201	228	75
145°	112	120	141	171	185	70
155°	127	131	141	155	159	58
165°	137	139	141	146	148	39
175°	143	143	142	144	144	14
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	297.3	297.3	299.2	300.2	302.1	303.1	305.0	306.9	312.6	313.6	315.5
5°	289.7	293.5	305.9	310.7	324.1	342.2	349.9	362.3	388.1	395.8	400.6
7.5°	278.2	286.8	317.4	325.0	358.5	406.3	426.4	453.1	494.3	514.3	530.6
10°	260.0	278.2	332.7	350.9	405.3	478.0	515.3	552.6	614.7	642.4	652.9
12.5°	240.0	269.6	348.9	373.8	452.2	558.3	603.2	644.3	715.1	752.4	758.1
15°	217.0	257.2	364.2	400.6	501.9	625.2	674.9	725.6	791.6	818.3	825.0
17.5°	196.9	247.6	378.6	416.8	540.1	685.5	736.1	778.2	831.7	849.9	854.7
20°	172.1	232.3	388.1	437.8	580.3	729.4	778.2	810.7	847.0	858.5	860.4
22.5°	153.9	216.1	393.9	445.5	607.1	756.2	797.3	823.1	848.0	851.8	852.8
25°	138.6	197.9	392.9	454.1	630.0	772.4	804.0	823.1	837.5	839.4	839.4
27.5°	124.3	177.8	389.1	456.0	647.2	776.3	801.1	814.5	821.2	825.0	825.0
30°	111.9	158.7	379.5	452.2	654.9	772.4	792.5	799.2	805.9	811.6	814.5
32.5°	102.3	140.5	365.2	444.5	655.8	762.9	777.2	781.1	790.6	804.0	808.8
35°	93.7	122.4	348.9	434.0	650.1	747.6	757.2	761.0	780.1	800.2	806.9
37.5°	85.1	109.0	327.9	415.9	641.5	729.4	736.1	742.8	772.4	796.3	804.0
40°	76.5	97.5	303.1	395.8	628.1	707.4	713.2	723.7	762.9	790.6	798.3
42.5°	69.8	88.0	276.3	374.8	610.9	682.6	691.2	706.5	751.4	781.1	789.7
45°	64.1	78.4	247.6	346.1	588.9	656.8	669.2	690.2	738.0	766.7	774.4
47.5°	58.3	71.7	218.0	316.4	565.0	631.0	647.2	671.1	719.9	747.6	754.3
50°	53.5	65.0	188.3	284.9	539.2	603.2	622.4	647.2	696.9	722.7	731.3
52.5°	49.7	59.3	160.6	253.3	509.5	574.6	596.5	622.4	669.2	694.1	699.8
55°	45.9	54.5	136.7	219.9	479.0	544.0	567.9	592.7	638.6	659.6	663.5
57.5°	44.0	50.7	116.6	188.3	446.5	509.5	536.3	559.3	602.3	618.5	622.4
60°	41.1	47.8	101.3	161.6	411.1	477.0	500.0	522.9	559.3	572.6	575.5
62.5°	38.2	45.9	89.9	135.8	374.8	438.8	461.7	482.8	513.4	522.9	526.8
65°	36.3	44.0	81.3	116.6	337.5	398.7	421.6	439.8	464.6	474.2	476.1
67.5°	34.4	42.1	74.6	100.4	300.2	358.5	375.7	392.9	412.0	421.6	422.6
70°	31.5	40.2	68.8	88.9	261.9	312.6	327.0	345.1	360.4	365.2	368.1
72.5°	29.6	37.3	65.0	80.3	222.7	268.6	282.0	292.5	305.9	310.7	310.7
75°	26.8	33.5	61.2	71.7	182.6	219.9	231.4	241.9	252.4	254.3	251.4
77.5°	23.9	29.6	52.6	60.2	142.4	174.0	183.6	189.3	197.9	199.8	200.8
80°	20.1	25.8	41.1	46.8	103.2	128.1	134.8	139.6	147.2	147.2	149.1
82.5°	15.3	20.1	29.6	33.5	69.8	88.0	93.7	96.6	101.3	101.3	101.3
85°	9.6	12.4	19.1	22.0	42.1	53.5	57.4	58.3	62.1	63.1	63.1
87.5°	4.8	6.7	12.4	13.4	22.0	27.7	27.7	29.6	29.6	28.7	27.7
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.5	26.0	36.0	41.0	35.9	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.1	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.1	148.2	179.2	171.1	154.8	142.5	138.3
100°	21.0	30.6	40.2	42.5	94.2	163.1	197.5	198.1	199.3	200.2	195.2
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.8	249.4	245.1
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.4	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.1	160.8	190.6	223.1	288.0	336.8	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.4	346.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.8	339.6	343.2
115°	58.5	64.1	69.6	71.0	101.3	141.8	161.9	197.7	269.3	322.9	328.0
117.5°	66.1	71.1	76.2	77.4	103.2	137.6	154.8	187.1	251.6	300.1	305.7
120°	70.5	75.2	80.0	81.2	104.7	136.1	151.8	181.4	240.4	284.7	290.1
122.5°	74.8	79.5	84.3	85.6	106.9	135.4	149.6	176.2	229.3	269.2	274.6
125°	81.4	85.8	90.2	91.3	109.9	134.8	147.2	169.8	215.0	248.8	253.8
127.5°	86.7	91.2	95.6	96.7	112.9	134.4	145.2	164.6	203.4	232.5	236.7
130°	89.6	94.4	99.1	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.6	97.4	102.2	103.3	116.8	134.8	143.8	159.3	190.1	213.4	216.8
135°	97.0	101.3	105.7	106.8	118.7	134.7	142.6	155.5	181.4	200.9	203.8
137.5°	101.5	105.8	110.1	111.2	121.6	135.5	142.4	153.3	175.2	191.7	194.2
140°	105.3	109.2	113.2	114.1	123.3	135.7	141.8	151.2	170.2	184.3	186.6
142.5°	108.1	111.8	115.4	116.3	124.9	136.1	141.8	150.1	166.7	179.2	181.2
145°	112.5	115.7	118.9	119.7	126.8	136.1	140.8	147.6	161.2	171.4	172.9
147.5°	116.9	120.0	123.1	123.9	129.5	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.4	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.1
152.5°	122.8	124.9	127.0	127.5	131.9	137.9	140.8	144.6	152.4	158.2	159.0
155°	127.1	128.7	130.3	130.7	134.0	138.5	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	131.9	133.5	133.8	136.1	139.3	140.8	143.2	148.0	151.5	151.9
160°	132.6	133.7	135.0	135.3	137.1	139.6	140.8	142.8	146.9	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.1	140.0	140.8	142.5	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.4	140.8	142.1	144.5	146.4	146.6
167.5°	139.4	139.8	140.1	140.2	140.7	141.4	141.8	142.5	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.5	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.4	143.7	144.6	144.5
175°	142.6	142.6	142.6	142.6	142.3	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.6	142.6	142.6	142.6	142.4	142.2	142.0	142.3	142.9	143.4	143.3
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	297.3	297.3
2.5°	317.4	315.5
5°	408.2	410.1
7.5°	549.7	548.7
10°	683.5	692.1
12.5°	781.1	783.0
15°	840.3	844.1
17.5°	863.3	864.2
20°	864.2	862.3
22.5°	853.7	851.8
25°	841.3	840.3
27.5°	829.8	830.8
30°	825.0	827.9
32.5°	825.0	829.8
35°	826.9	831.7
37.5°	826.0	831.7
40°	822.2	828.9
42.5°	811.6	816.4
45°	795.4	801.1
47.5°	774.4	778.2
50°	747.6	751.4
52.5°	714.1	715.1
55°	674.0	677.8
57.5°	631.0	631.9
60°	583.2	586.0
62.5°	532.5	532.5
65°	479.0	480.9
67.5°	423.5	428.3
70°	367.1	368.1
72.5°	311.7	311.7
75°	254.3	255.3
77.5°	199.8	199.8
80°	148.2	149.1
82.5°	102.3	104.2
85°	64.1	64.1
87.5°	29.6	26.8
90°	3.6	3.6
92.5°	14.5	11.7
95°	50.9	42.1
97.5°	121.7	105.1
100°	175.4	155.5
102.5°	228.1	211.1
105°	295.5	286.3
107.5°	339.6	341.8
110°	356.3	365.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	357.8	372.5
115°	348.4	368.6
117.5°	328.2	350.8
120°	312.0	333.8
122.5°	296.2	317.8
125°	273.7	293.6
127.5°	253.4	270.2
130°	241.5	257.0
132.5°	230.7	244.5
135°	215.9	227.8
137.5°	203.9	213.8
140°	195.7	204.9
142.5°	189.0	196.8
145°	178.9	184.8
147.5°	171.0	176.0
150°	166.2	170.2
152.5°	161.9	165.0
155°	157.2	159.2
157.5°	153.3	154.8
160°	151.0	151.8
162.5°	149.5	150.3
165°	147.4	148.2
167.5°	145.8	146.2
170°	145.4	145.4
172.5°	144.3	144.0
175°	143.6	143.6
177.5°	143.0	142.6
180°	142.6	142.6



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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	6.26	7.41	7.00	8.18	9.11	19.40	20.55	20.14	21.32	22.25
	3H	6.98	8.03	7.74	8.80	9.76	21.24	22.28	22.00	23.06	24.02
	4H	7.30	8.28	8.07	9.07	10.04	21.89	22.87	22.66	23.66	24.63
	6H	7.56	8.47	8.35	9.27	10.25	22.32	23.23	23.11	24.03	25.01
	8H	7.64	8.51	8.43	9.33	10.31	22.45	23.32	23.24	24.13	25.12
	12H	7.67	8.50	8.47	9.31	10.32	22.52	23.35	23.32	24.16	25.17
4H	2H	13.48	14.47	14.26	15.25	16.22	19.71	20.69	20.48	21.48	22.45
	3H	15.08	15.90	15.87	16.73	17.71	21.76	22.59	22.55	23.41	24.40
	4H	15.19	15.94	15.99	16.76	17.77	22.53	23.29	23.34	24.11	25.12
	6H	15.21	15.87	16.04	16.72	17.73	23.08	23.73	23.90	24.58	25.60
	8H	15.20	15.81	16.02	16.65	17.69	23.24	23.85	24.06	24.69	25.73
	12H	15.17	15.72	16.02	16.59	17.63	23.34	23.89	24.19	24.76	25.79
8H	4H	16.65	17.26	17.47	18.10	19.13	22.62	23.23	23.44	24.07	25.11
	6H	16.90	17.41	17.76	18.29	19.33	23.25	23.76	24.10	24.64	25.68
	8H	16.92	17.38	17.79	18.26	19.31	23.47	23.92	24.33	24.80	25.85
	12H	16.91	17.31	17.78	18.18	19.28	23.62	24.02	24.48	24.89	25.99
12H	4H	16.80	17.35	17.65	18.22	19.25	22.59	23.14	23.43	24.00	25.04
	6H	17.16	17.62	18.03	18.49	19.54	23.24	23.69	24.10	24.57	25.62
	8H	17.25	17.64	18.11	18.52	19.62	23.47	23.87	24.34	24.74	25.85