Luminaire Property

Luminaire: DL SQ 24W

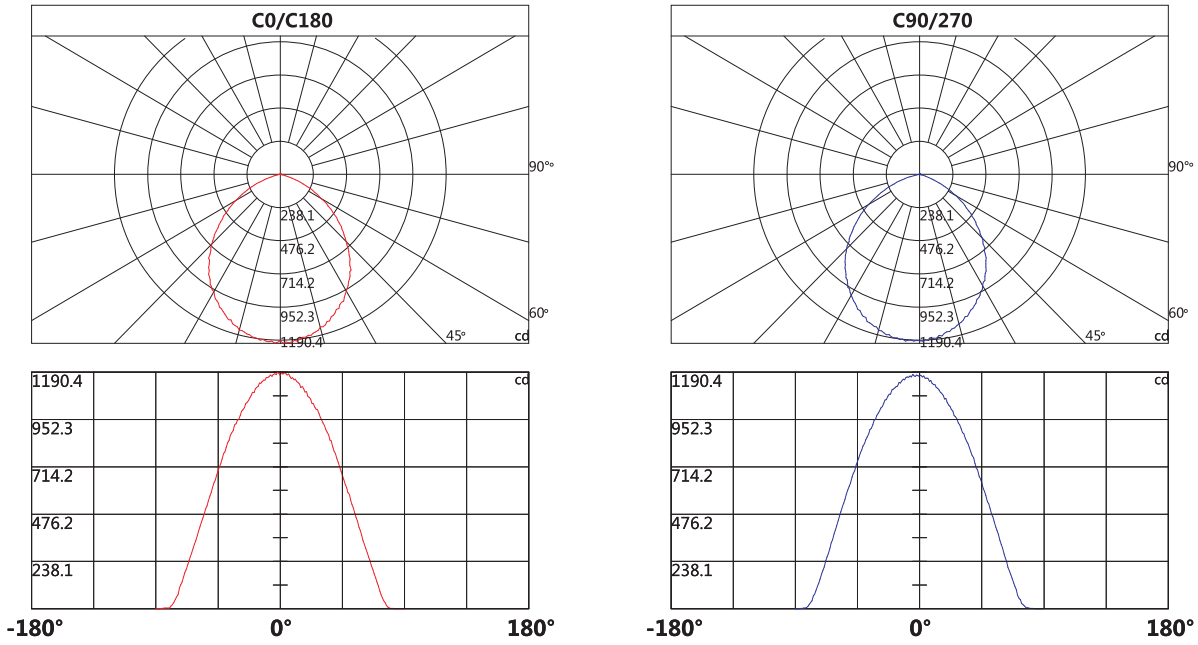
Report NO.:
Test NO.:
Lamp: 2835
Sum Lumens: 2694.27 lm
Number of Lamps: 144
Diameter: mm
Length: 170mm
Photometric Type: Type C

Voltage: 220.0 V
Current: 0.213 A
Power: 22.5 W
Power Factor: 0.962
Ballast Type:
Width: 170mm
Height: 30mm
Remark:

Photometric Results

Lumens: 2694.27 lm
Effective luminous flux: 2649.23 lm
Efficiency: N.A
Central Intensity: 1173.601cd
Maximum Intensity: 1190.381cd
Beam Angle(10%): Left: -72.0 Right:70.8

Angle of maximum intensity: C:0.0 G:1.0
Half Peak Side Angle(50%): Left: -49.5 Right:48.6
Light Out Rate(LOR) : 100.00%
Up Flux Rate: 0.0%
Down Flux Rate: 100.0%



Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	1173.6	1190.4	1181.8	1188.2	1185.0	1175.4	1181.8	1170.1	1158.3	1162.6
30.0	1173.6	1170.1	1159.4	1154.0	1163.6	1150.8	1148.7	1148.7	1141.2	1139.0
60.0	1173.6	1170.1	1159.4	1154.0	1163.6	1150.8	1148.7	1148.7	1141.2	1139.0
90.0	1173.6	1174.3	1166.8	1172.2	1160.4	1160.4	1160.4	1143.3	1148.7	1134.8
120.0	1173.6	1174.3	1166.8	1172.2	1160.4	1160.4	1160.4	1143.3	1148.7	1134.8
150.0	1173.6	1184.0	1189.3	1177.5	1182.9	1179.7	1170.1	1176.5	1167.9	1163.6
180.0	1173.6	1184.0	1189.3	1177.5	1182.9	1179.7	1170.1	1176.5	1167.9	1163.6
210.0	1173.6	1171.1	1170.1	1166.8	1170.1	1160.4	1165.8	1165.8	1156.2	1162.6
240.0	1173.6	1171.1	1170.1	1166.8	1170.1	1160.4	1165.8	1165.8	1156.2	1162.6
270.0	1173.6	1171.1	1176.5	1170.1	1171.1	1179.7	1166.8	1172.2	1164.7	1166.8
300.0	1173.6	1171.1	1176.5	1170.1	1171.1	1179.7	1166.8	1172.2	1164.7	1166.8
330.0	1173.6	1190.4	1181.8	1188.2	1185.0	1175.4	1181.8	1170.1	1158.3	1162.6
360.0	1173.6	1190.4	1181.8	1188.2	1185.0	1175.4	1181.8	1170.1	1158.3	1162.6

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1152.9	1156.2	1143.3	1138.0	1131.6	1113.4	1117.7	1108.0	1090.9	1092.0
30.0	1125.1	1125.1	1119.8	1099.5	1105.9	1090.9	1077.0	1077.0	1057.8	1049.2
60.0	1125.1	1125.1	1119.8	1099.5	1105.9	1090.9	1077.0	1077.0	1057.8	1049.2
90.0	1127.3	1127.3	1113.4	1110.2	1100.5	1089.8	1084.5	1073.8	1054.6	1057.8
120.0	1127.3	1127.3	1113.4	1110.2	1100.5	1089.8	1084.5	1073.8	1054.6	1057.8
150.0	1163.6	1150.8	1150.8	1142.3	1134.8	1136.9	1119.8	1113.4	1108.0	1086.6
180.0	1163.6	1150.8	1150.8	1142.3	1134.8	1136.9	1119.8	1113.4	1108.0	1086.6
210.0	1147.6	1148.7	1146.5	1131.6	1136.9	1118.7	1117.7	1115.5	1097.3	1100.5
240.0	1147.6	1148.7	1146.5	1131.6	1136.9	1118.7	1117.7	1115.5	1097.3	1100.5
270.0	1163.6	1151.9	1156.2	1145.5	1135.8	1140.1	1119.8	1118.7	1111.2	1105.9
300.0	1163.6	1151.9	1156.2	1145.5	1135.8	1140.1	1119.8	1118.7	1111.2	1105.9
330.0	1152.9	1156.2	1143.3	1138.0	1131.6	1113.4	1117.7	1108.0	1090.9	1092.0
360.0	1152.9	1156.2	1143.3	1138.0	1131.6	1113.4	1117.7	1108.0	1090.9	1092.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1068.5	1064.2	1053.5	1033.2	1033.2	1012.8	1004.3	1002.2	980.7	963.6
30.0	1039.6	1019.2	1019.2	1004.3	987.2	980.7	961.5	946.5	938.0	921.9
60.0	1039.6	1019.2	1019.2	1004.3	987.2	980.7	961.5	946.5	938.0	921.9
90.0	1039.6	1024.6	1019.2	1004.3	994.7	972.2	966.8	954.0	934.8	927.3
120.0	1039.6	1024.6	1019.2	1004.3	994.7	972.2	966.8	954.0	934.8	927.3
150.0	1088.8	1073.8	1062.0	1049.2	1037.4	1033.2	1011.8	1000.0	993.6	973.3
180.0	1088.8	1073.8	1062.0	1049.2	1037.4	1033.2	1011.8	1000.0	993.6	973.3
210.0	1086.6	1073.8	1073.8	1053.5	1044.9	1039.6	1017.1	1017.1	1001.1	978.6
240.0	1086.6	1073.8	1073.8	1053.5	1044.9	1039.6	1017.1	1017.1	1001.1	978.6
270.0	1102.7	1080.2	1080.2	1069.5	1052.4	1050.3	1035.3	1019.2	1010.7	995.7
300.0	1102.7	1080.2	1080.2	1069.5	1052.4	1050.3	1035.3	1019.2	1010.7	995.7
330.0	1068.5	1064.2	1053.5	1033.2	1033.2	1012.8	1004.3	1002.2	980.7	963.6
360.0	1068.5	1064.2	1053.5	1033.2	1033.2	1012.8	1004.3	1002.2	980.7	963.6

Photometric Data Table [cd]

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	949.7	935.8	921.9	902.7	889.8	874.9	849.2	843.9	812.8	792.5
30.0	908.0	893.1	880.2	866.3	840.6	836.4	816.1	793.6	782.9	759.4
60.0	908.0	893.1	880.2	866.3	840.6	836.4	816.1	793.6	782.9	759.4
90.0	904.8	885.6	881.3	857.8	842.8	831.0	808.6	790.4	772.2	758.3
120.0	904.8	885.6	881.3	857.8	842.8	831.0	808.6	790.4	772.2	758.3
150.0	952.9	948.7	931.6	925.1	898.4	884.5	873.8	848.1	837.4	811.8
180.0	952.9	948.7	931.6	925.1	898.4	884.5	873.8	848.1	837.4	811.8
210.0	977.5	955.1	941.2	932.6	913.4	900.5	883.4	870.6	855.6	833.2
240.0	977.5	955.1	941.2	932.6	913.4	900.5	883.4	870.6	855.6	833.2
270.0	985.0	971.1	952.9	948.7	926.2	907.0	901.6	880.2	863.1	851.3
300.0	985.0	971.1	952.9	948.7	926.2	907.0	901.6	880.2	863.1	851.3
330.0	949.7	935.8	921.9	902.7	889.8	874.9	849.2	843.9	812.8	792.5
360.0	949.7	935.8	921.9	902.7	889.8	874.9	849.2	843.9	812.8	792.5

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	780.8	754.0	735.8	715.5	690.9	671.7	650.3	625.7	610.7	585.0
30.0	736.9	719.8	702.7	678.1	657.8	644.9	619.3	594.7	584.0	552.9
60.0	736.9	719.8	702.7	678.1	657.8	644.9	619.3	594.7	584.0	552.9
90.0	731.5	708.0	699.5	667.4	653.5	635.3	604.3	589.3	569.0	538.0
120.0	731.5	708.0	699.5	667.4	653.5	635.3	604.3	589.3	569.0	538.0
150.0	789.3	781.8	751.9	730.5	715.5	696.3	672.7	648.1	635.3	608.6
180.0	789.3	781.8	751.9	730.5	715.5	696.3	672.7	648.1	635.3	608.6
210.0	828.9	804.3	785.0	775.4	750.8	729.4	713.4	692.0	669.5	646.0
240.0	828.9	804.3	785.0	775.4	750.8	729.4	713.4	692.0	669.5	646.0
270.0	831.0	818.2	796.8	784.0	758.3	741.2	723.0	693.0	681.3	662.0
300.0	831.0	818.2	796.8	784.0	758.3	741.2	723.0	693.0	681.3	662.0
330.0	780.8	754.0	735.8	715.5	690.9	671.7	650.3	625.7	610.7	585.0
360.0	780.8	754.0	735.8	715.5	690.9	671.7	650.3	625.7	610.7	585.0

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	574.3	544.4	523.0	506.9	478.1	457.8	441.7	408.6	393.6	371.1
30.0	533.7	516.6	485.6	470.6	449.2	415.0	401.1	379.7	348.7	334.8
60.0	533.7	516.6	485.6	470.6	449.2	415.0	401.1	379.7	348.7	334.8
90.0	528.4	505.9	474.9	463.1	438.5	410.7	393.6	375.4	343.3	324.1
120.0	528.4	505.9	474.9	463.1	438.5	410.7	393.6	375.4	343.3	324.1
150.0	582.9	567.9	541.2	517.7	503.8	475.9	455.6	437.4	411.8	392.5
180.0	582.9	567.9	541.2	517.7	503.8	475.9	455.6	437.4	411.8	392.5
210.0	635.3	608.6	581.8	569.0	541.2	520.8	506.9	471.7	454.5	434.2
240.0	635.3	608.6	581.8	569.0	541.2	520.8	506.9	471.7	454.5	434.2
270.0	632.1	615.0	598.9	574.3	551.9	531.6	513.4	487.7	467.4	444.9
300.0	632.1	615.0	598.9	574.3	551.9	531.6	513.4	487.7	467.4	444.9
330.0	574.3	544.4	523.0	506.9	478.1	457.8	441.7	408.6	393.6	371.1
360.0	574.3	544.4	523.0	506.9	478.1	457.8	441.7	408.6	393.6	371.1

Photometric Data Table [cd]

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	344.4	321.9	302.7	280.2	258.8	241.7	215.0	197.9	176.5	155.1
30.0	310.2	283.4	264.2	246.0	218.2	195.7	181.8	151.9	133.7	117.6
60.0	310.2	283.4	264.2	246.0	218.2	195.7	181.8	151.9	133.7	117.6
90.0	305.9	275.9	254.6	237.4	207.5	189.3	171.1	152.9	128.3	111.2
120.0	305.9	275.9	254.6	237.4	207.5	189.3	171.1	152.9	128.3	111.2
150.0	369.0	343.3	325.1	307.0	280.2	263.1	241.7	222.5	196.8	182.9
180.0	369.0	343.3	325.1	307.0	280.2	263.1	241.7	222.5	196.8	182.9
210.0	403.2	385.0	363.6	335.8	316.6	297.3	269.5	249.2	231.0	203.2
240.0	403.2	385.0	363.6	335.8	316.6	297.3	269.5	249.2	231.0	203.2
270.0	417.1	395.7	376.5	346.5	331.6	304.8	278.1	261.0	240.7	209.6
300.0	417.1	395.7	376.5	346.5	331.6	304.8	278.1	261.0	240.7	209.6
330.0	344.4	321.9	302.7	280.2	258.8	241.7	215.0	197.9	176.5	155.1
360.0	344.4	321.9	302.7	280.2	258.8	241.7	215.0	197.9	176.5	155.1

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	133.7	115.5	88.8	69.5	54.6	40.6	28.9	15.0	7.5	3.2
30.0	94.1	78.1	64.2	43.9	32.1	23.5	17.1	6.4	3.2	2.7
60.0	94.1	78.1	64.2	43.9	32.1	23.5	17.1	6.4	3.2	2.7
90.0	96.3	67.4	51.3	44.9	25.7	19.3	12.8	5.4	5.4	2.1
120.0	96.3	67.4	51.3	44.9	25.7	19.3	12.8	5.4	5.4	2.1
150.0	161.5	133.7	119.8	103.7	71.7	58.8	46.0	30.0	20.3	13.9
180.0	161.5	133.7	119.8	103.7	71.7	58.8	46.0	30.0	20.3	13.9
210.0	186.1	169.0	138.0	120.9	108.0	83.4	64.2	53.5	33.2	25.7
240.0	186.1	169.0	138.0	120.9	108.0	83.4	64.2	53.5	33.2	25.7
270.0	192.5	175.4	147.6	129.4	112.3	89.8	72.7	64.2	39.6	30.0
300.0	192.5	175.4	147.6	129.4	112.3	89.8	72.7	64.2	39.6	30.0
330.0	133.7	115.5	88.8	69.5	54.6	40.6	28.9	15.0	7.5	3.2
360.0	133.7	115.5	88.8	69.5	54.6	40.6	28.9	15.0	7.5	3.2

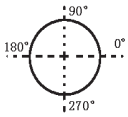
C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	2.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
60.0	2.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
90.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	3.2	3.2	3.2	2.7	2.1	1.1	1.1	0.0	0.0	0.0
180.0	3.2	3.2	3.2	2.7	2.1	1.1	1.1	0.0	0.0	0.0
210.0	16.0	8.5	6.4	5.4	2.1	1.1	1.1	1.1	1.1	0.0
240.0	16.0	8.5	6.4	5.4	2.1	1.1	1.1	1.1	1.1	0.0
270.0	20.3	10.7	5.4	3.2	2.1	1.1	1.1	0.0	0.0	0.0
300.0	20.3	10.7	5.4	3.2	2.1	1.1	1.1	0.0	0.0	0.0
330.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

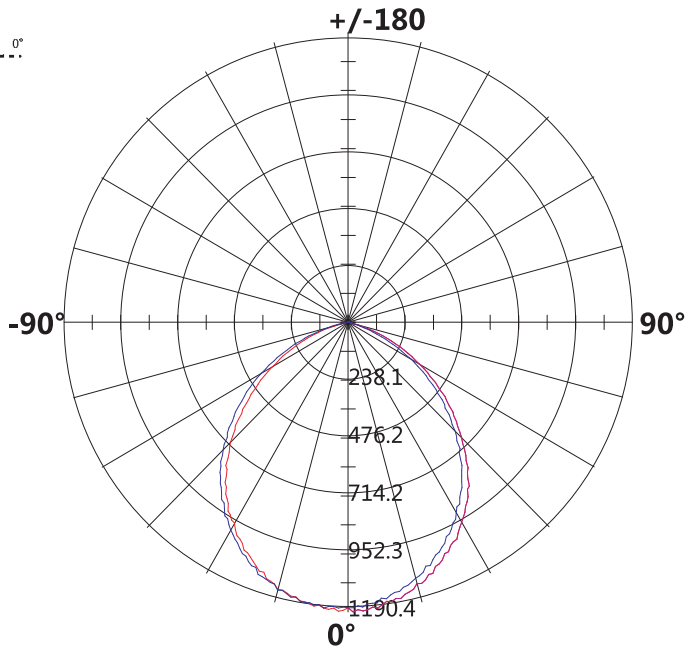
Photometric Data Table [cd]

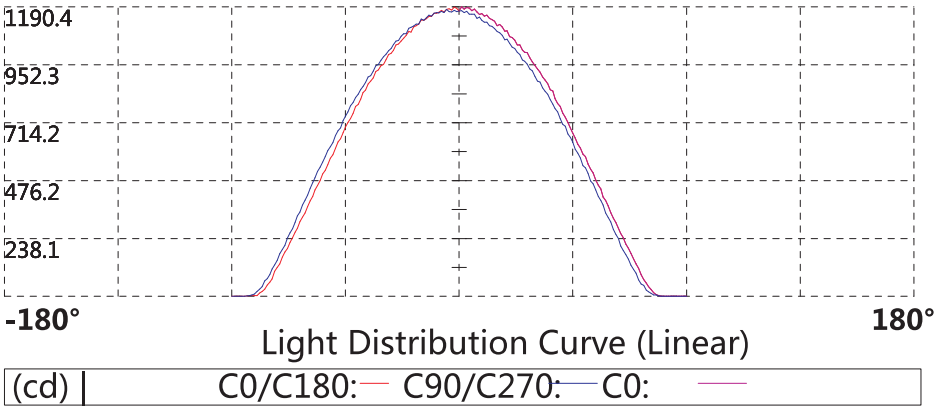
C\G	90.0
0.0	0.0
30.0	1.1
60.0	1.1
90.0	0.0
120.0	0.0
150.0	0.0
180.0	0.0
210.0	0.0
240.0	0.0
270.0	0.0
300.0	0.0
330.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

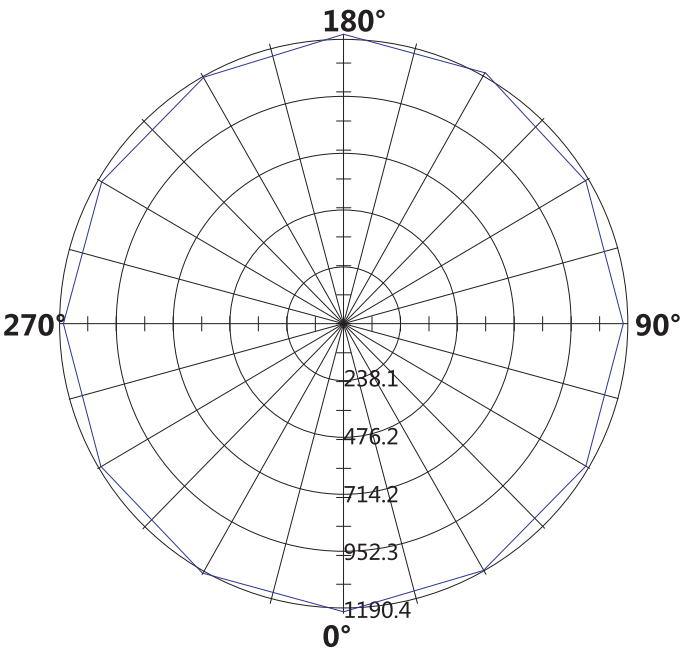
Luminaire

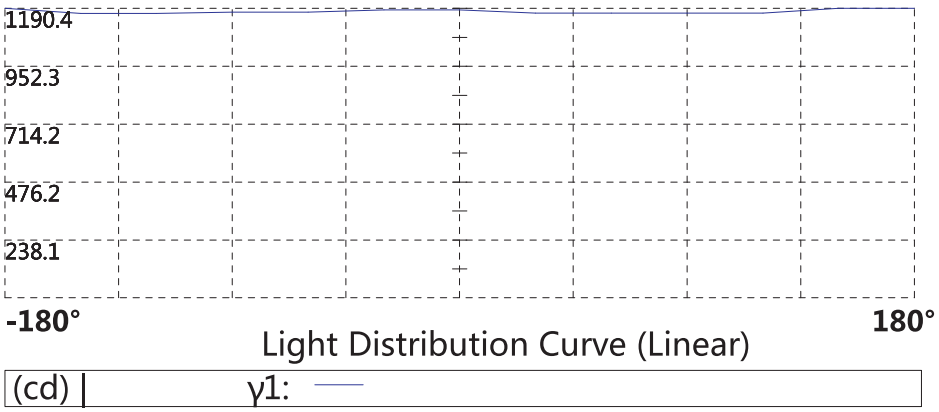




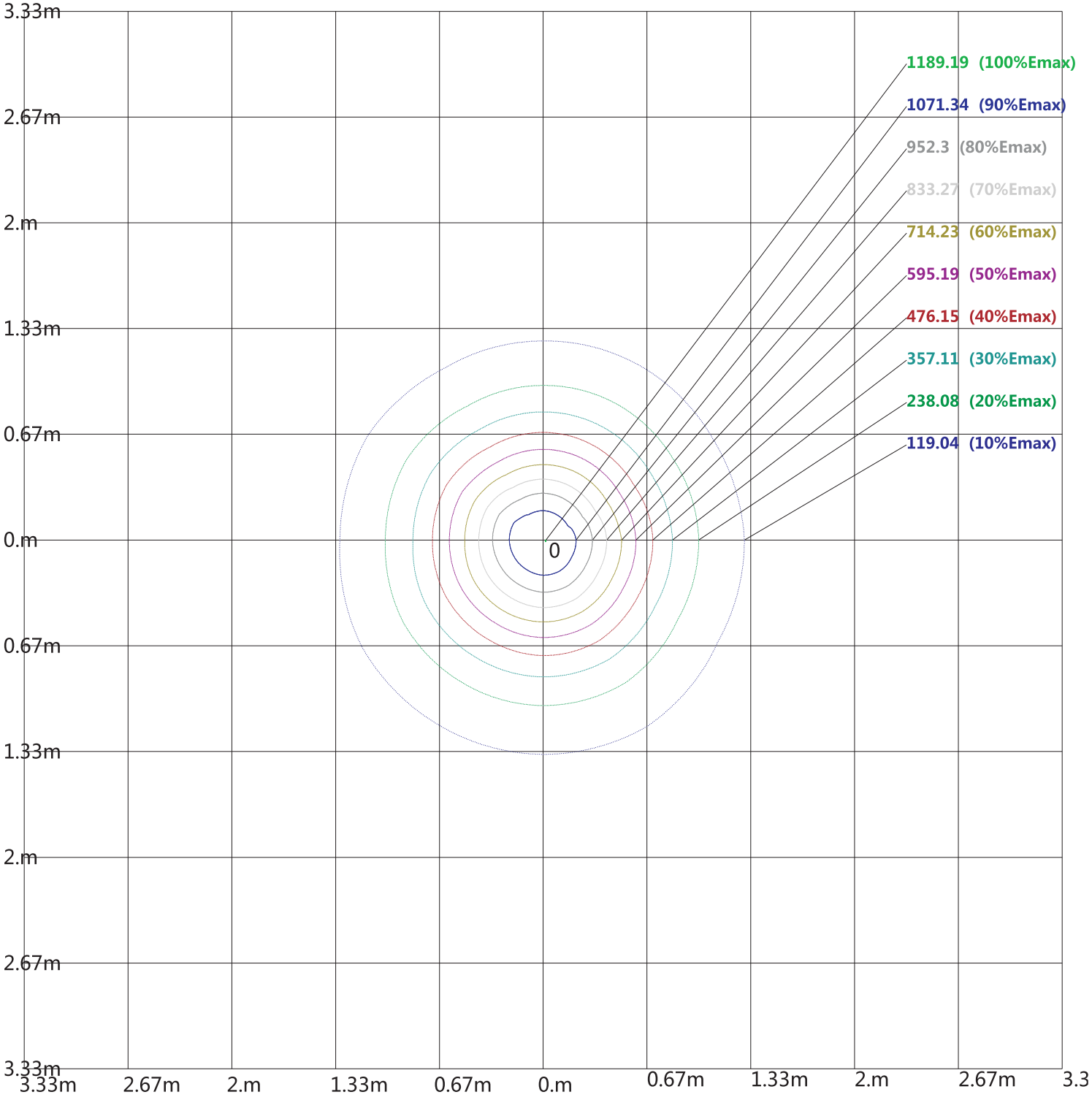


Max Plane Light Distribution Curve [Unit: cd]





Iso-Lux[lx]



Height: 1 m
Max Illuminance : 1190.38lx

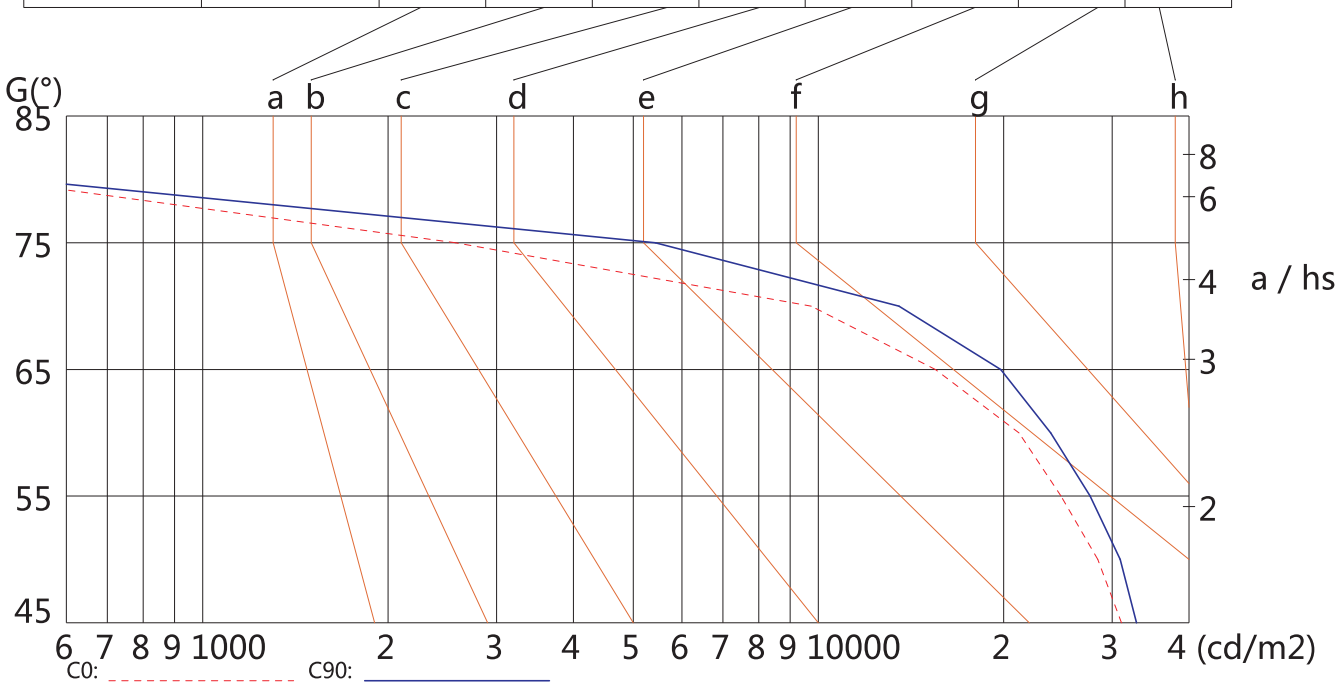
Luminance Limitting Curve

Diameter: mm
Length: 170mm
Width: 170mm
Height: 30mm

(cd/m2)

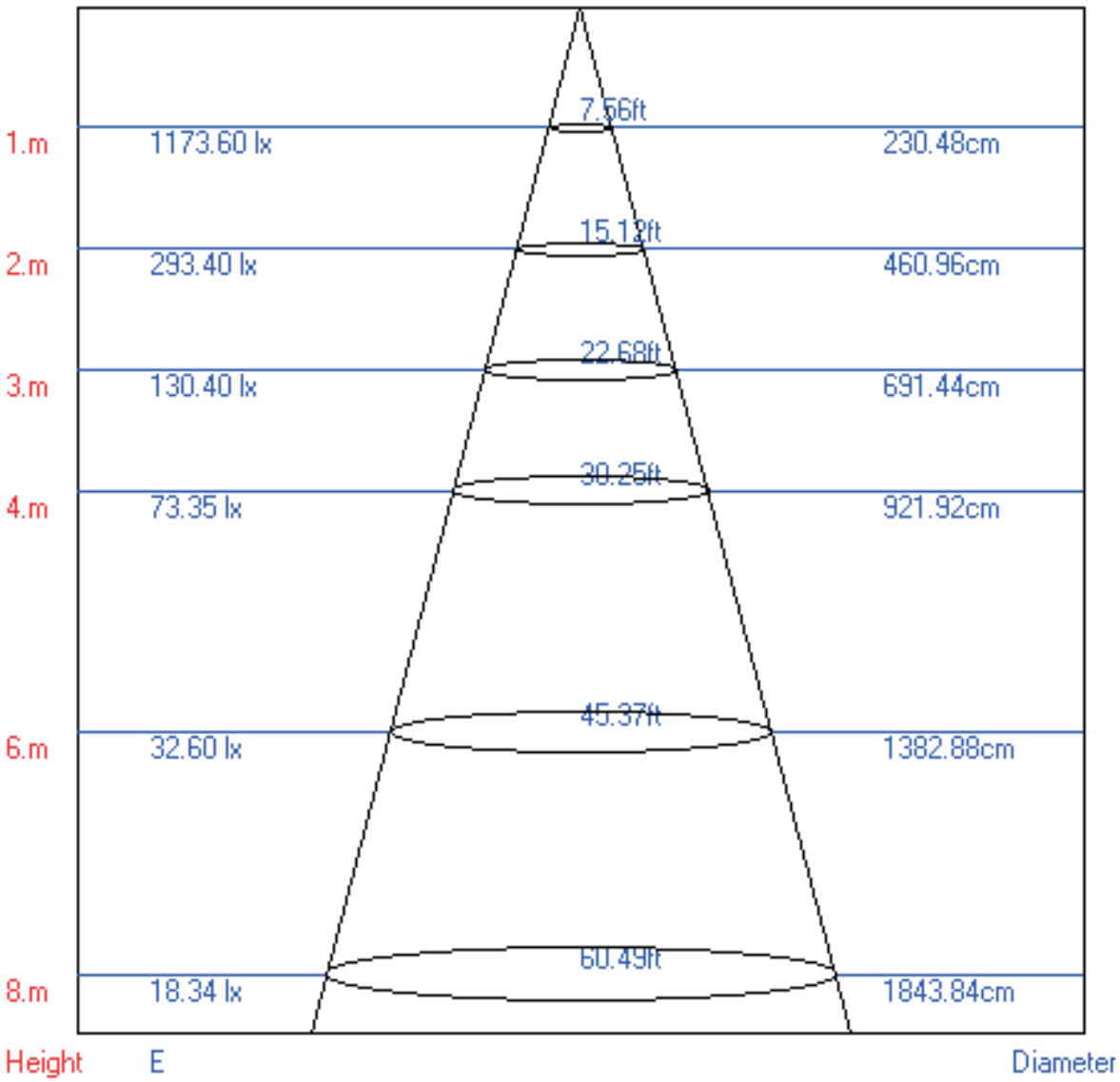
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	31089	28442	24776	21168	15500	9739	2575	212	
C90	32867	30917	27615	23832	19791	13526	5434	212	

Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limitting Curve (C0/C90)

Lux-Distance Curve



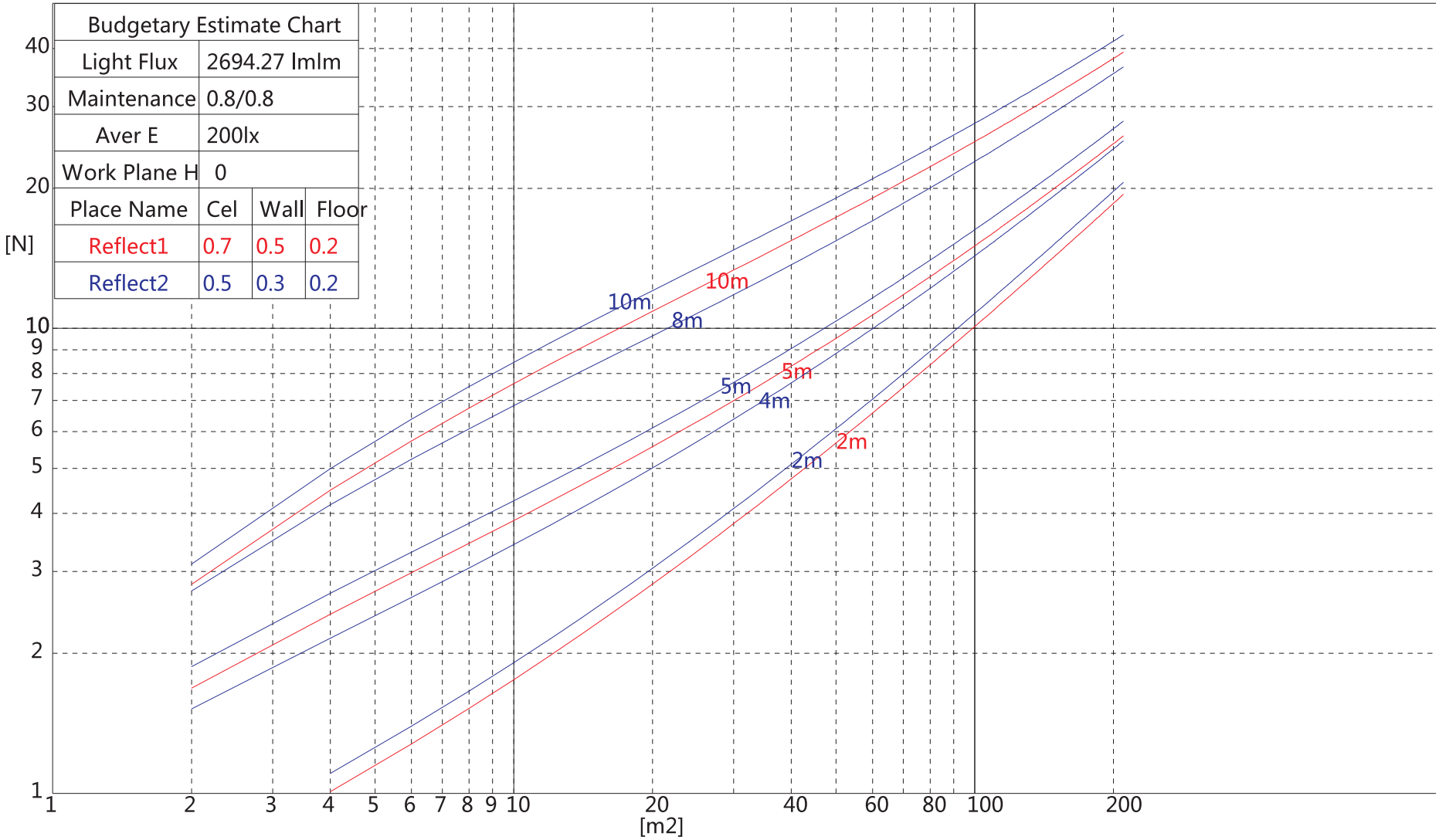
Beam Angle:98.10°

Utilization Coefficient Table

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.94	0.92	0.91	0.93	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.71
3	0.82	0.80	0.78	0.82	0.79	0.76	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.65	0.61
4	0.72	0.69	0.68	0.72	0.69	0.66	0.71	0.67	0.64	0.69	0.64	0.60	0.67	0.61	0.57	0.53
5	0.64	0.61	0.59	0.64	0.60	0.58	0.64	0.59	0.56	0.63	0.57	0.53	0.61	0.55	0.50	0.46
6	0.57	0.54	0.52	0.57	0.54	0.51	0.57	0.53	0.49	0.57	0.51	0.47	0.56	0.49	0.44	0.41
7	0.51	0.48	0.47	0.51	0.48	0.46	0.52	0.47	0.44	0.52	0.46	0.42	0.51	0.45	0.40	0.36
8	0.46	0.43	0.42	0.46	0.43	0.41	0.47	0.43	0.39	0.47	0.42	0.38	0.47	0.41	0.36	0.33
9	0.42	0.39	0.38	0.42	0.39	0.37	0.43	0.39	0.36	0.44	0.38	0.34	0.44	0.37	0.32	0.29
10	0.38	0.36	0.34	0.39	0.36	0.34	0.40	0.35	0.32	0.40	0.35	0.31	0.41	0.34	0.30	0.27

SUPERLIGHT
LED test report

Budgetary Estimate Chart			
Light Flux	2694.27 lmlm		
Maintenance	0.8/0.8		
Aver E	200lx		
Work Plane H	0		
Place Name	Cel	Wall	Floor
Reflect1	0.7	0.5	0.2
Reflect2	0.5	0.3	0.2



Equipment:LINKCOLOR LCG-GONIO
Temperature:25 Deg
Date:2018-08-23
Humidity:60%
Operator:Ms.Delia

UGR Glare Index

Ceiling		70	70	50	50	30	70	70	50	50	30
Wall		50	30	50	30	30	50	30	50	30	30
Floor		20	20	20	20	20	20	20	20	20	20
Room Size X	Y	Weft to light axis direction of observation					Direction of light axis parallel observation				
2H	2H	14.7	16.0	14.9	15.9	16.5	14.7	15.9	14.8	16.0	16.5
	3H	16.3	17.4	16.7	17.9	17.9	16.2	17.4	16.4	17.8	18.0
	4H	16.9	18.1	17.4	18.7	18.8	16.9	18.1	17.3	18.5	18.8
	6H	17.6	18.5	18.0	18.9	18.9	17.4	18.3	17.8	18.9	19.0
	8H	17.8	18.9	18.1	19.0	19.3	17.7	18.7	17.9	19.0	19.3
	12H	17.9	18.8	18.1	19.2	19.5	17.7	18.7	18.1	19.2	19.6
4H	2H	15.7	16.6	15.9	16.8	17.0	15.6	16.6	15.8	16.9	17.0
	3H	17.5	18.4	17.7	18.4	18.8	17.3	18.2	17.6	18.3	18.7
	4H	18.3	18.9	18.5	19.1	19.5	18.0	18.9	18.4	19.1	19.6
	6H	18.8	19.5	19.1	19.8	20.2	18.7	19.5	18.9	19.7	20.0
	8H	19.0	19.7	19.4	20.0	20.3	19.0	19.5	19.3	20.0	20.3
	12H	19.2	19.8	19.7	20.0	20.5	19.1	19.8	19.5	20.1	20.5
8H	4H	18.5	19.2	18.8	19.4	19.8	18.5	19.1	18.7	19.4	19.8
	6H	19.3	19.8	19.8	20.2	20.6	19.2	19.7	19.6	20.2	20.5
	8H	19.8	20.2	20.2	20.5	20.9	19.6	20.0	20.1	20.4	21.0
	12H	20.0	20.4	20.4	20.9	21.1	19.8	20.3	20.3	20.8	21.2
12H	4H	18.6	19.2	19.1	19.6	19.8	18.5	19.0	18.9	19.4	19.8
	6H	19.5	20.0	19.9	20.2	20.7	19.4	19.9	19.8	20.2	20.6
	8H	19.9	20.3	20.4	20.5	21.1	19.8	20.2	20.3	20.6	21.0