

Luminaire Property

Luminaire: DL RD 12W

Report NO.:

Test NO.:

Lamp: 2835

Sum Lumens: 1050.01 lm

Number of Lamps: 72

Diameter: 125mm

Length: mm

Photometric Type: Type C

Voltage: 220.9 V

Current: 0.11 A

Power: 12.0 W

Power Factor: 0.991

Ballast Type:

Width: mm

Height: 20mm

Remark:

Photometric Results

Lumens: 1050.01 lm

Effective luminous flux: 1029.63 lm

Efficiency: N.A

Central Intensity: 514.194cd

Maximum Intensity: 524.059cd

Beam Angle(10%): Left: -66.0 Right:65.1

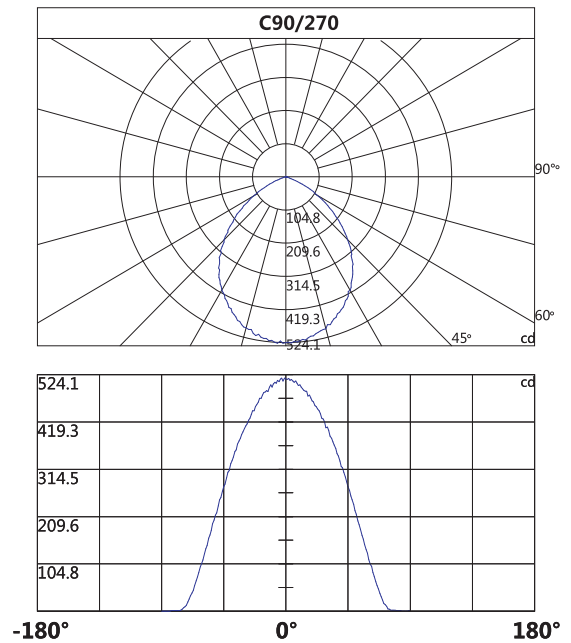
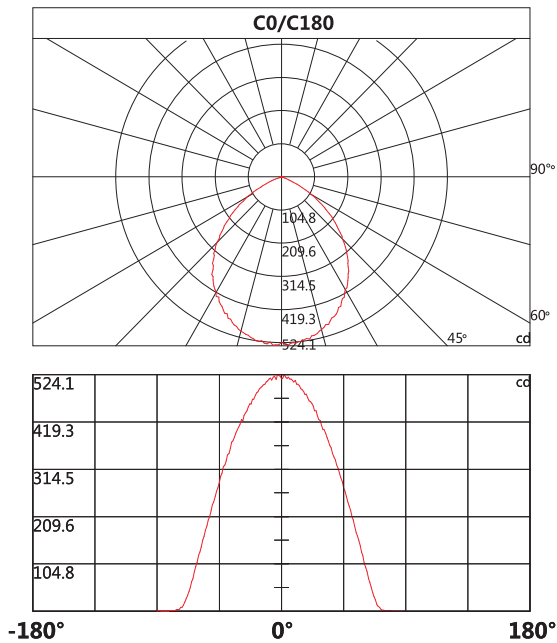
Angle of maximum intensity: C:0.0 G:2.0

Half Peak Side Angle(50%): Left: -47.4 Right:46.3

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	514.2	516.6	524.1	518.7	515.5	518.7	514.4	514.4	511.2	508.0
30.0	514.2	505.9	506.9	509.1	508.0	508.0	505.9	500.5	501.6	498.4
60.0	514.2	505.9	506.9	509.1	508.0	508.0	505.9	500.5	501.6	498.4
90.0	514.2	513.4	515.5	511.2	513.4	510.2	506.9	510.2	504.8	500.5
120.0	514.2	513.4	515.5	511.2	513.4	510.2	506.9	510.2	504.8	500.5
150.0	514.2	520.8	521.9	523.0	513.4	520.8	518.7	512.3	516.6	514.4
180.0	514.2	520.8	521.9	523.0	513.4	520.8	518.7	512.3	516.6	514.4
210.0	514.2	506.9	510.2	503.8	504.8	508.0	501.6	504.8	499.5	498.4
240.0	514.2	506.9	510.2	503.8	504.8	508.0	501.6	504.8	499.5	498.4
270.0	514.2	516.6	510.2	516.6	514.4	509.1	511.2	504.8	506.9	503.8
300.0	514.2	516.6	510.2	516.6	514.4	509.1	511.2	504.8	506.9	503.8
330.0	514.2	516.6	524.1	518.7	515.5	518.7	514.4	514.4	511.2	508.0
360.0	514.2	516.6	524.1	518.7	515.5	518.7	514.4	514.4	511.2	508.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	511.2	502.7	502.7	499.5	493.0	490.9	486.6	480.2	481.3	472.7
30.0	496.3	496.3	488.8	487.7	482.3	477.0	479.1	471.7	467.4	466.3
60.0	496.3	496.3	488.8	487.7	482.3	477.0	479.1	471.7	467.4	466.3
90.0	501.6	496.3	493.0	489.9	487.7	487.7	477.0	479.1	472.7	466.3
120.0	501.6	496.3	493.0	489.9	487.7	487.7	477.0	479.1	472.7	466.3
150.0	510.2	508.0	502.7	501.6	498.4	495.2	493.0	485.6	483.4	478.1
180.0	510.2	508.0	502.7	501.6	498.4	495.2	493.0	485.6	483.4	478.1
210.0	493.0	487.7	490.9	486.6	478.1	480.2	471.7	467.4	463.1	459.9
240.0	493.0	487.7	490.9	486.6	478.1	480.2	471.7	467.4	463.1	459.9
270.0	496.3	501.6	496.3	486.6	488.8	485.6	484.5	479.1	471.7	471.7
300.0	496.3	501.6	496.3	486.6	488.8	485.6	484.5	479.1	471.7	471.7
330.0	511.2	502.7	502.7	499.5	493.0	490.9	486.6	480.2	481.3	472.7
360.0	511.2	502.7	502.7	499.5	493.0	490.9	486.6	480.2	481.3	472.7

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	466.3	464.2	459.9	454.5	443.8	443.8	433.2	424.6	422.5	411.8
30.0	455.6	454.5	452.4	442.8	437.4	432.1	428.9	423.5	411.8	410.7
60.0	455.6	454.5	452.4	442.8	437.4	432.1	428.9	423.5	411.8	410.7
90.0	464.2	455.6	453.5	448.1	443.8	437.4	427.8	425.7	419.3	406.4
120.0	464.2	455.6	453.5	448.1	443.8	437.4	427.8	425.7	419.3	406.4
150.0	469.5	469.5	458.8	459.9	452.4	443.8	439.6	434.2	422.5	424.6
180.0	469.5	469.5	458.8	459.9	452.4	443.8	439.6	434.2	422.5	424.6
210.0	456.7	449.2	446.0	444.9	432.1	432.1	422.5	415.0	413.9	403.2
240.0	456.7	449.2	446.0	444.9	432.1	432.1	422.5	415.0	413.9	403.2
270.0	463.1	457.8	453.5	443.8	443.8	435.3	427.8	423.5	415.0	410.7
300.0	463.1	457.8	453.5	443.8	443.8	435.3	427.8	423.5	415.0	410.7
330.0	466.3	464.2	459.9	454.5	443.8	443.8	433.2	424.6	422.5	411.8
360.0	466.3	464.2	459.9	454.5	443.8	443.8	433.2	424.6	422.5	411.8

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	403.2	402.1	393.6	385.0	377.5	366.8	361.5	349.7	341.2	335.8
30.0	401.1	394.7	391.4	380.8	373.3	367.9	360.4	355.1	344.4	335.8
60.0	401.1	394.7	391.4	380.8	373.3	367.9	360.4	355.1	344.4	335.8
90.0	407.5	400.0	388.2	382.9	375.4	367.9	360.4	348.7	344.4	332.6
120.0	407.5	400.0	388.2	382.9	375.4	367.9	360.4	348.7	344.4	332.6
150.0	413.9	407.5	402.1	394.7	386.1	377.5	374.3	360.4	349.7	346.5
180.0	413.9	407.5	402.1	394.7	386.1	377.5	374.3	360.4	349.7	346.5
210.0	397.9	390.4	378.6	376.5	365.8	360.4	355.1	343.3	333.7	325.1
240.0	397.9	390.4	378.6	376.5	365.8	360.4	355.1	343.3	333.7	325.1
270.0	405.3	396.8	391.4	382.9	377.5	370.1	357.2	354.0	341.2	333.7
300.0	405.3	396.8	391.4	382.9	377.5	370.1	357.2	354.0	341.2	333.7
330.0	403.2	402.1	393.6	385.0	377.5	366.8	361.5	349.7	341.2	335.8
360.0	403.2	402.1	393.6	385.0	377.5	366.8	361.5	349.7	341.2	335.8

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	324.1	315.5	305.9	296.3	286.6	272.7	266.3	253.5	241.7	233.1
30.0	327.3	315.5	311.2	296.3	283.4	278.1	267.4	257.7	248.1	232.1
60.0	327.3	315.5	311.2	296.3	283.4	278.1	267.4	257.7	248.1	232.1
90.0	320.9	317.7	308.0	297.3	286.6	275.9	267.4	255.6	247.1	236.4
120.0	320.9	317.7	308.0	297.3	286.6	275.9	267.4	255.6	247.1	236.4
150.0	332.6	324.1	319.8	305.9	299.5	286.6	272.7	266.3	254.6	241.7
180.0	332.6	324.1	319.8	305.9	299.5	286.6	272.7	266.3	254.6	241.7
210.0	323.0	309.1	296.3	289.8	280.2	265.2	262.0	249.2	238.5	231.0
240.0	323.0	309.1	296.3	289.8	280.2	265.2	262.0	249.2	238.5	231.0
270.0	327.3	311.2	308.0	296.3	281.3	275.9	266.3	251.3	247.1	233.1
300.0	327.3	311.2	308.0	296.3	281.3	275.9	266.3	251.3	247.1	233.1
330.0	324.1	315.5	305.9	296.3	286.6	272.7	266.3	253.5	241.7	233.1
360.0	324.1	315.5	305.9	296.3	286.6	272.7	266.3	253.5	241.7	233.1

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	222.5	209.6	202.1	189.3	174.3	166.8	157.2	144.4	130.5	123.0
30.0	225.7	215.0	205.3	196.8	184.0	170.1	159.4	148.7	142.2	127.3
60.0	225.7	215.0	205.3	196.8	184.0	170.1	159.4	148.7	142.2	127.3
90.0	222.5	215.0	200.0	191.4	181.8	167.9	159.4	147.6	135.8	128.3
120.0	222.5	215.0	200.0	191.4	181.8	167.9	159.4	147.6	135.8	128.3
150.0	236.4	222.5	208.6	202.1	189.3	178.6	165.8	158.3	142.2	131.6
180.0	236.4	222.5	208.6	202.1	189.3	178.6	165.8	158.3	142.2	131.6
210.0	219.2	205.3	196.8	190.4	172.2	161.5	157.2	142.2	131.6	124.1
240.0	219.2	205.3	196.8	190.4	172.2	161.5	157.2	142.2	131.6	124.1
270.0	218.2	212.8	202.1	193.6	178.6	169.0	161.5	145.5	138.0	127.3
300.0	218.2	212.8	202.1	193.6	178.6	169.0	161.5	145.5	138.0	127.3
330.0	222.5	209.6	202.1	189.3	174.3	166.8	157.2	144.4	130.5	123.0
360.0	222.5	209.6	202.1	189.3	174.3	166.8	157.2	144.4	130.5	123.0

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	107.0	96.3	87.7	71.7	63.1	53.5	40.6	32.1	25.7	13.9
30.0	119.8	108.0	95.2	88.8	74.9	67.4	58.8	47.1	40.6	33.2
60.0	119.8	108.0	95.2	88.8	74.9	67.4	58.8	47.1	40.6	33.2
90.0	114.4	103.7	99.5	85.6	77.0	65.2	56.7	49.2	38.5	32.1
120.0	114.4	103.7	99.5	85.6	77.0	65.2	56.7	49.2	38.5	32.1
150.0	124.1	108.0	99.5	88.8	71.7	65.2	52.4	43.9	34.2	27.8
180.0	124.1	108.0	99.5	88.8	71.7	65.2	52.4	43.9	34.2	27.8
210.0	107.0	98.4	90.9	75.9	69.5	59.9	48.1	42.8	35.3	25.7
240.0	107.0	98.4	90.9	75.9	69.5	59.9	48.1	42.8	35.3	25.7
270.0	113.4	105.9	98.4	85.6	75.9	67.4	56.7	46.0	40.6	34.2
300.0	113.4	105.9	98.4	85.6	75.9	67.4	56.7	46.0	40.6	34.2
330.0	107.0	96.3	87.7	71.7	63.1	53.5	40.6	32.1	25.7	13.9
360.0	107.0	96.3	87.7	71.7	63.1	53.5	40.6	32.1	25.7	13.9

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	10.7	8.5	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1
30.0	25.7	21.4	15.0	9.6	8.5	5.4	3.2	2.1	2.1	1.1
60.0	25.7	21.4	15.0	9.6	8.5	5.4	3.2	2.1	2.1	1.1
90.0	24.6	17.1	13.9	10.7	5.4	4.3	2.1	2.1	2.1	2.1
120.0	24.6	17.1	13.9	10.7	5.4	4.3	2.1	2.1	2.1	2.1
150.0	20.3	12.8	8.5	8.5	4.3	3.7	3.2	1.1	1.1	1.1
180.0	20.3	12.8	8.5	8.5	4.3	3.7	3.2	1.1	1.1	1.1
210.0	22.5	17.1	11.8	7.5	6.4	3.2	1.1	1.1	1.1	0.0
240.0	22.5	17.1	11.8	7.5	6.4	3.2	1.1	1.1	1.1	0.0
270.0	26.7	20.3	12.8	9.6	7.5	4.3	2.1	1.6	1.1	1.1
300.0	26.7	20.3	12.8	9.6	7.5	4.3	2.1	1.6	1.1	1.1
330.0	10.7	8.5	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1
360.0	10.7	8.5	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1

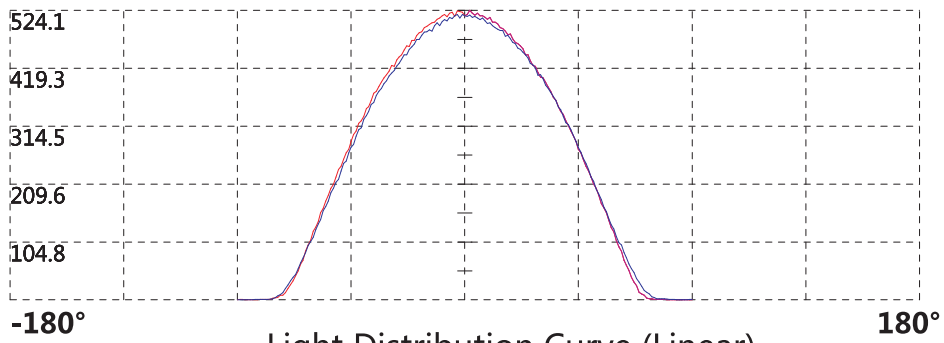
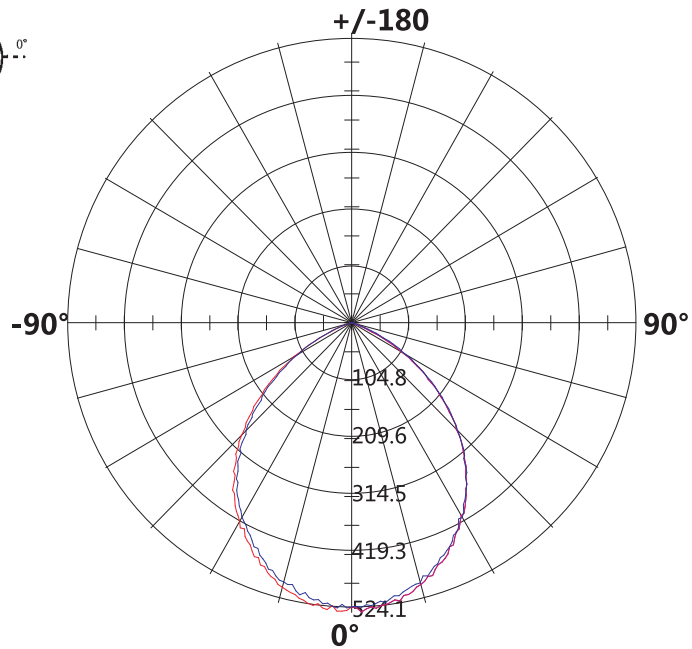
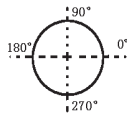
C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	1.6	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1
120.0	1.6	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1
150.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
180.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
300.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	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	0.0
60.0	0.0
90.0	1.1
120.0	1.1
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

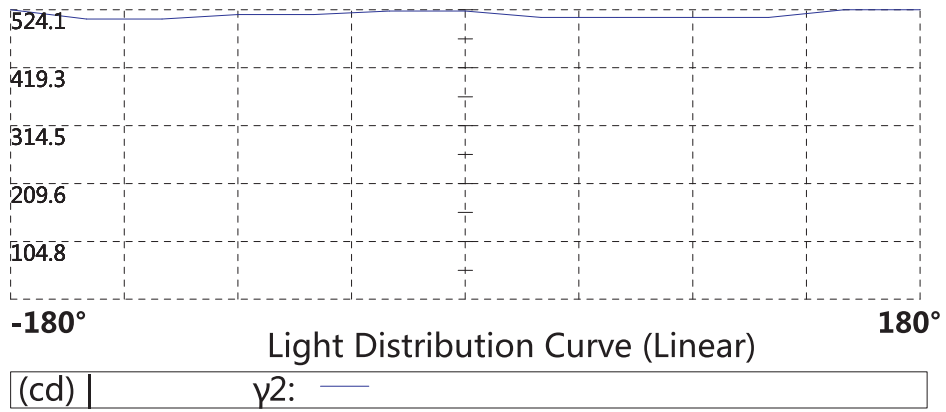
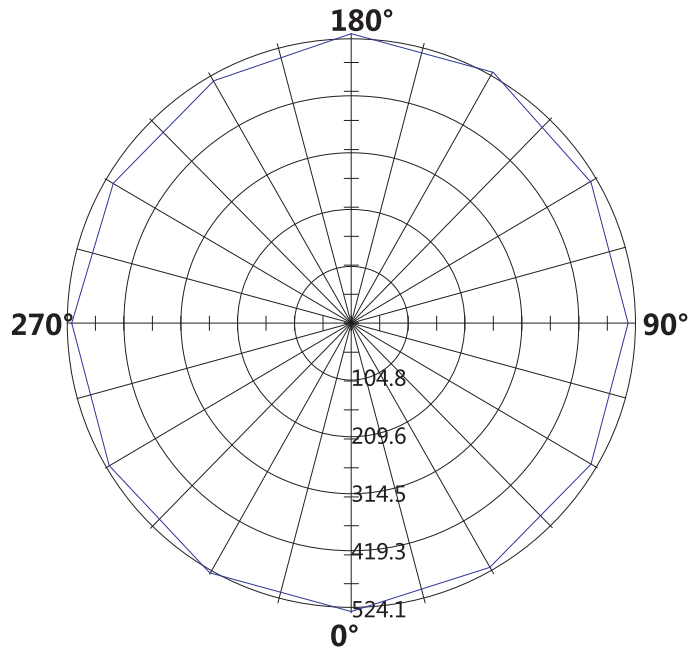
Light Distribution Curve [Unit: cd]

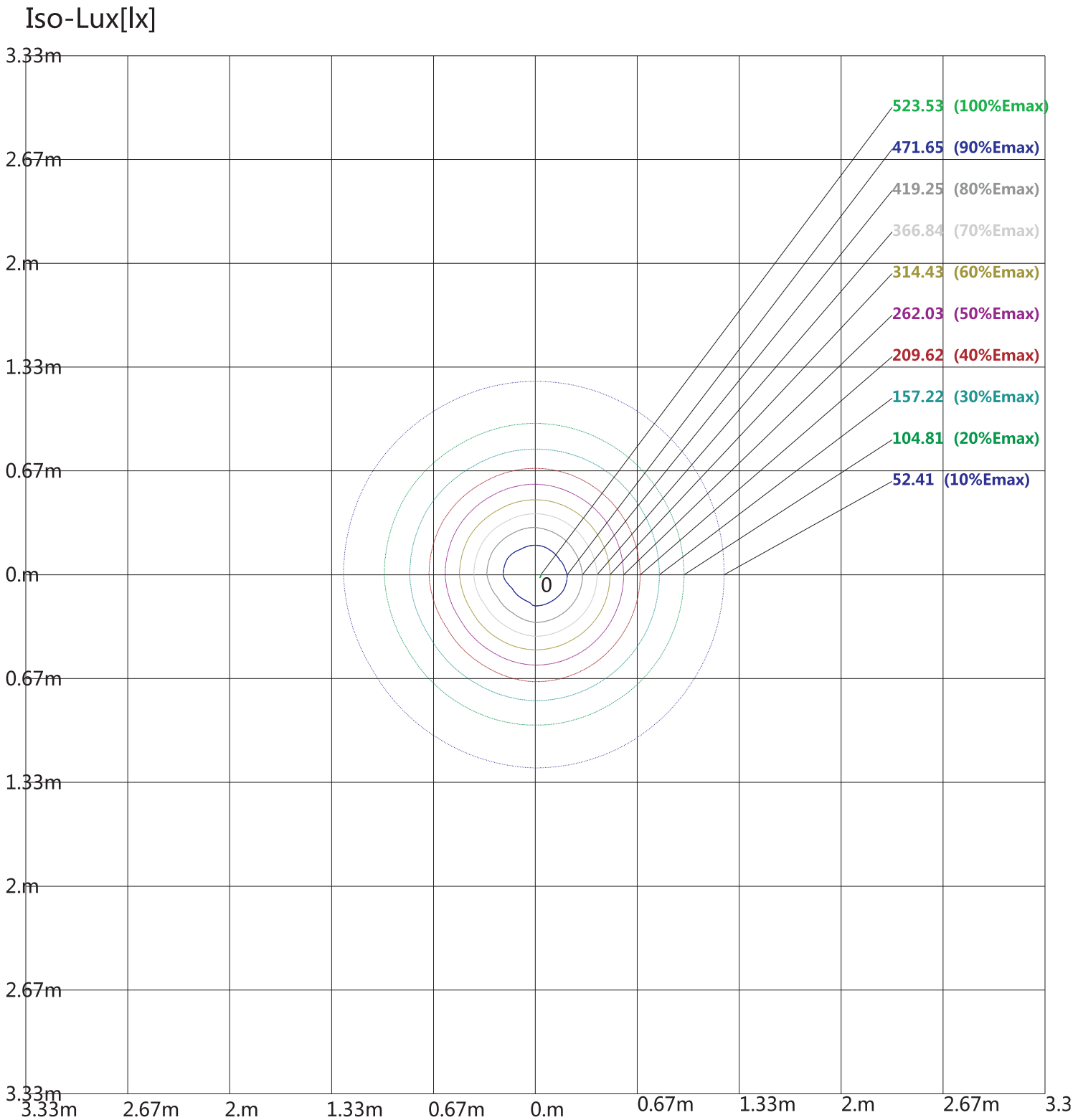
Luminaire



Light Distribution Curve (Linear)
 (cd) | C0/C180: — C90/C270: — C0: —

Max Plane Light Distribution Curve [Unit: cd]





Height: 1 m
Max Illuminance : 524.06lx

Luminance Limiting Curve

Diameter: 125mm

Length: mm

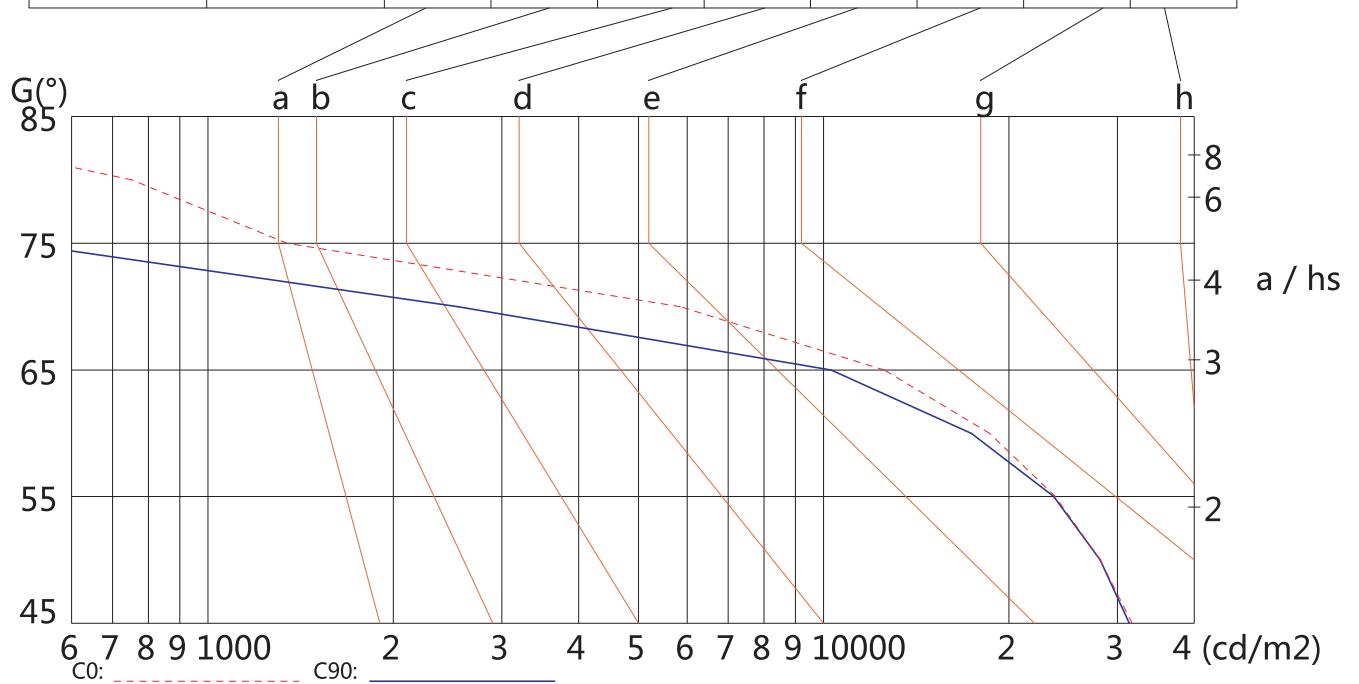
Width: mm

Height: 20mm

(cd/m²)

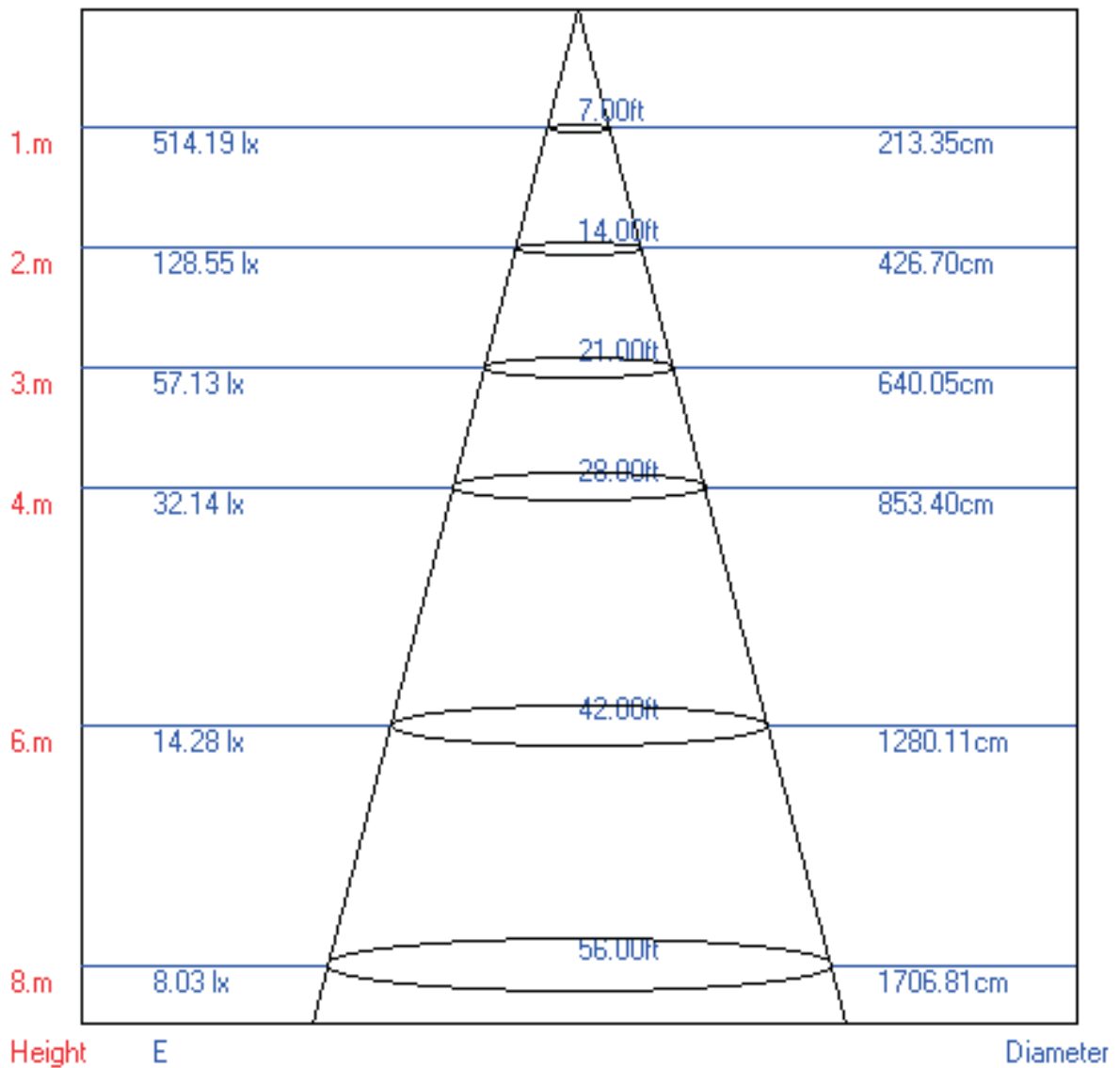
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	31727	28137	23802	18608	12551	5847	1342		
C90	31358	28137	23649	17391	10286	2542	334		

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. Limiting Curve (C0/C90)

Lux-Distance Curve

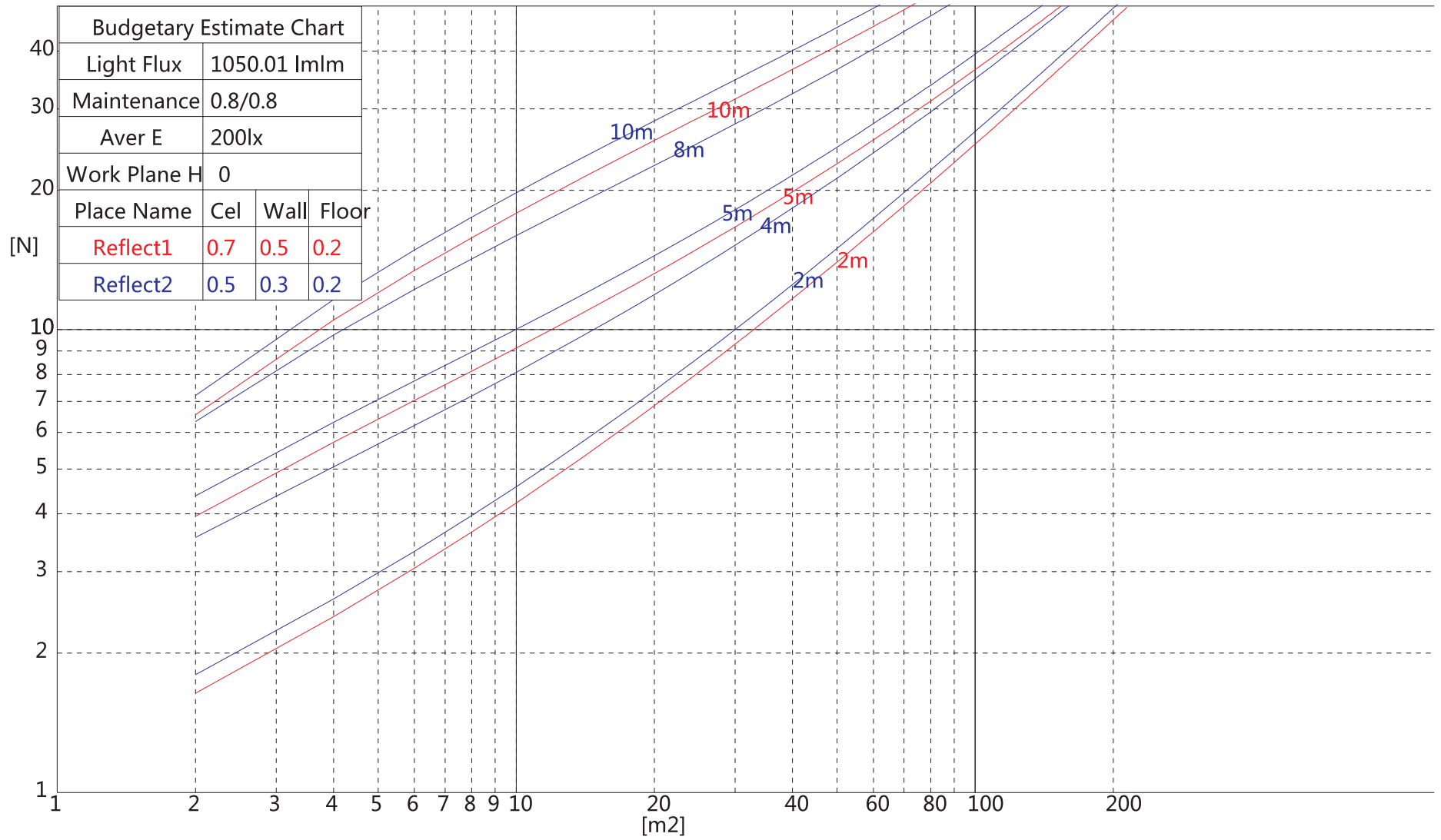


Beam Angle:93.70

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	COEFFICIENTS 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	1.10	1.08	1.07	1.08	1.07	1.05	1.04	1.02	1.01	0.99	0.97	0.96	0.92	0.90	0.89	0.84
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
3	0.86	0.83	0.82	0.85	0.82	0.80	0.83	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.76	0.73	0.72	0.76	0.72	0.70	0.74	0.70	0.67	0.72	0.68	0.64	0.69	0.64	0.60	0.56
5	0.67	0.65	0.63	0.67	0.64	0.62	0.67	0.63	0.59	0.65	0.60	0.57	0.63	0.58	0.53	0.49
6	0.60	0.58	0.56	0.61	0.57	0.55	0.60	0.56	0.53	0.60	0.54	0.50	0.58	0.52	0.48	0.44
7	0.54	0.52	0.50	0.55	0.52	0.49	0.55	0.50	0.47	0.55	0.49	0.45	0.54	0.48	0.43	0.39
8	0.49	0.47	0.46	0.50	0.47	0.45	0.50	0.46	0.43	0.50	0.45	0.41	0.50	0.43	0.39	0.36
9	0.45	0.43	0.41	0.45	0.42	0.40	0.46	0.42	0.39	0.46	0.41	0.37	0.46	0.40	0.35	0.32
10	0.41	0.39	0.38	0.42	0.39	0.37	0.43	0.38	0.35	0.43	0.38	0.34	0.43	0.37	0.32	0.29

SUPERLIGHT
LED test report



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
4H	12H	17.9	18.8	18.1	19.2	19.5	17.7	18.7	18.1	19.2	19.6
	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	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
	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	12H	20.0	20.4	20.4	20.9	21.1	19.8	20.3	20.3	20.8	21.2
	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