

Luminaire Property

Luminaire: RH-PL3060 24W 4000K

Report NO.:

Voltage: 219.9 V

Test NO.:

Current: 0.111 A

Lamp:

Power: 23.5 W

Sum Lumens: 2132.47 lm

Power Factor: 0.957

Number of Lamps: 1

Ballast Type:

Diameter: mm

Width: 295mm

Length: 595mm

Height: mm

Photometric Type: Type C

Remark:

Photometric Results

Lumens: 2132.47 lm

Angle of maximum intensity: C:0.0 G:1.0

Effective luminous flux: 2098.53 lm

Half Peak Side Angle(50%): Left: -55.1 Right:54.9

Efficiency: 90.7434 lm/W

Light Out Rate(LOR) : 100.00%

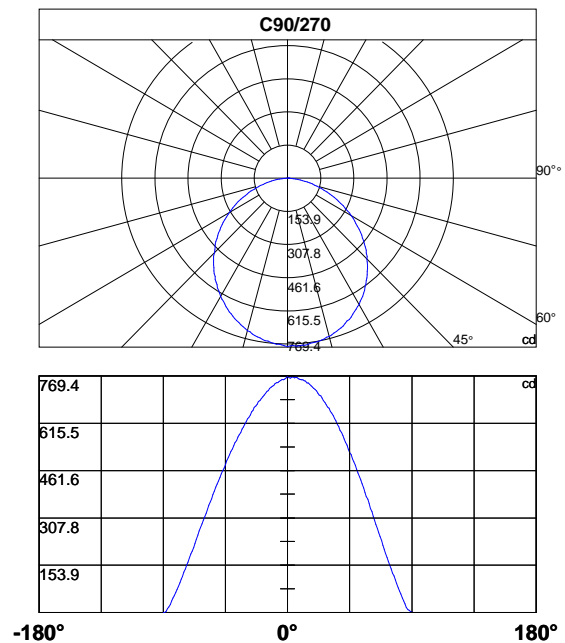
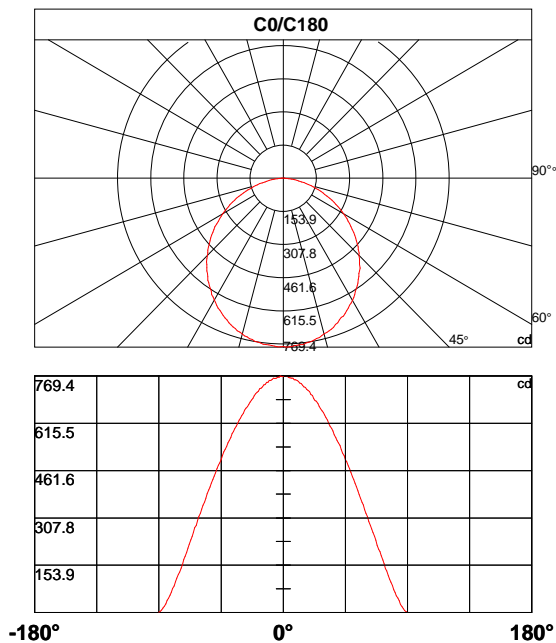
Central Intensity: 767.196cd

Up Flux Rate: 0.0%

Maximum Intensity: 769.445cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -80.0 Right:79.8



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	767.2	769.4	769.0	768.0	764.5	763.7	762.0	763.1	757.3	757.3
45.0	767.2	764.1	762.4	765.7	766.1	763.7	765.1	763.5	759.8	758.3
90.0	767.2	764.1	762.4	765.7	766.1	763.7	765.1	763.5	759.8	758.3
135.0	767.2	768.0	769.4	765.9	764.9	762.6	761.6	762.2	758.1	755.2
180.0	767.2	768.0	769.4	765.9	764.9	762.6	761.6	762.2	758.1	755.2
225.0	767.2	763.5	759.6	757.5	758.1	755.4	752.6	748.0	747.8	744.3
270.0	767.2	763.5	759.6	757.5	758.1	755.4	752.6	748.0	747.8	744.3
315.0	767.2	769.4	769.0	768.0	764.5	763.7	762.0	763.1	757.3	757.3
360.0	767.2	769.4	769.0	768.0	764.5	763.7	762.0	763.1	757.3	757.3

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	754.6	751.8	747.0	745.2	739.0	733.7	731.8	726.5	722.8	718.0
45.0	757.3	757.5	753.6	753.0	747.0	746.4	742.7	737.1	733.5	729.3
90.0	757.3	757.5	753.6	753.0	747.0	746.4	742.7	737.1	733.5	729.3
135.0	755.2	748.6	748.4	742.1	740.7	734.5	729.7	727.5	719.7	716.8
180.0	755.2	748.6	748.4	742.1	740.7	734.5	729.7	727.5	719.7	716.8
225.0	738.4	736.9	733.0	728.7	721.5	719.7	712.1	706.9	701.8	695.6
270.0	738.4	736.9	733.0	728.7	721.5	719.7	712.1	706.9	701.8	695.6
315.0	754.6	751.8	747.0	745.2	739.0	733.7	731.8	726.5	722.8	718.0
360.0	754.6	751.8	747.0	745.2	739.0	733.7	731.8	726.5	722.8	718.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	709.0	705.9	696.0	689.6	687.2	680.4	670.7	663.6	655.5	650.6
45.0	726.5	720.7	713.3	706.9	704.7	697.3	690.1	683.1	675.9	668.5
90.0	726.5	720.7	713.3	706.9	704.7	697.3	690.1	683.1	675.9	668.5
135.0	711.1	705.3	696.9	691.1	684.7	676.9	670.1	664.8	657.8	647.3
180.0	711.1	705.3	696.9	691.1	684.7	676.9	670.1	664.8	657.8	647.3
225.0	690.1	686.0	677.5	671.1	667.3	657.6	652.7	642.8	634.6	629.6
270.0	690.1	686.0	677.5	671.1	667.3	657.6	652.7	642.8	634.6	629.6
315.0	709.0	705.9	696.0	689.6	687.2	680.4	670.7	663.6	655.5	650.6
360.0	709.0	705.9	696.0	689.6	687.2	680.4	670.7	663.6	655.5	650.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	642.6	634.2	626.1	614.9	605.8	598.3	590.8	578.0	568.8	558.9
45.0	664.4	654.1	648.5	640.5	631.3	623.7	611.5	604.8	592.9	585.7
90.0	664.4	654.1	648.5	640.5	631.3	623.7	611.5	604.8	592.9	585.7
135.0	640.1	632.3	625.7	614.2	605.6	597.8	588.9	581.7	569.6	558.9
180.0	640.1	632.3	625.7	614.2	605.6	597.8	588.9	581.7	569.6	558.9
225.0	620.4	611.7	603.1	596.8	585.9	578.2	570.8	559.7	552.9	542.9
270.0	620.4	611.7	603.1	596.8	585.9	578.2	570.8	559.7	552.9	542.9
315.0	642.6	634.2	626.1	614.9	605.8	598.3	590.8	578.0	568.8	558.9
360.0	642.6	634.2	626.1	614.9	605.8	598.3	590.8	578.0	568.8	558.9

Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	551.9	543.1	529.7	518.6	510.4	496.7	490.3	476.7	467.9	456.4
45.0	575.6	563.9	553.8	545.0	531.4	520.9	513.7	499.5	490.3	478.4
90.0	575.6	563.9	553.8	545.0	531.4	520.9	513.7	499.5	490.3	478.4
135.0	551.5	540.2	530.1	522.7	511.4	498.1	486.4	479.4	468.1	454.1
180.0	551.5	540.2	530.1	522.7	511.4	498.1	486.4	479.4	468.1	454.1
225.0	532.6	523.5	513.7	504.0	493.3	480.2	469.5	460.1	451.4	440.1
270.0	532.6	523.5	513.7	504.0	493.3	480.2	469.5	460.1	451.4	440.1
315.0	551.9	543.1	529.7	518.6	510.4	496.7	490.3	476.7	467.9	456.4
360.0	551.9	543.1	529.7	518.6	510.4	496.7	490.3	476.7	467.9	456.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	441.7	432.3	420.6	410.3	395.3	383.2	371.3	358.3	349.7	334.4
45.0	465.8	453.7	441.3	431.1	418.5	405.4	390.0	376.8	368.2	354.8
90.0	465.8	453.7	441.3	431.1	418.5	405.4	390.0	376.8	368.2	354.8
135.0	443.4	433.5	420.8	408.9	398.6	386.6	371.9	359.7	348.5	336.3
180.0	443.4	433.5	420.8	408.9	398.6	386.6	371.9	359.7	348.5	336.3
225.0	426.6	417.5	407.9	393.4	384.0	369.6	360.2	348.2	335.3	323.1
270.0	426.6	417.5	407.9	393.4	384.0	369.6	360.2	348.2	335.3	323.1
315.0	441.7	432.3	420.6	410.3	395.3	383.2	371.3	358.3	349.7	334.4
360.0	441.7	432.3	420.6	410.3	395.3	383.2	371.3	358.3	349.7	334.4

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	322.1	311.4	295.8	283.3	271.6	260.9	247.9	235.0	218.9	205.6
45.0	338.8	328.3	312.1	300.3	286.3	272.8	259.0	248.1	234.1	218.5
90.0	338.8	328.3	312.1	300.3	286.3	272.8	259.0	248.1	234.1	218.5
135.0	322.9	312.3	299.5	283.9	275.4	260.1	246.3	236.0	222.2	209.0
180.0	322.9	312.3	299.5	283.9	275.4	260.1	246.3	236.0	222.2	209.0
225.0	310.8	300.3	288.0	275.4	265.2	252.4	237.2	224.7	211.3	199.0
270.0	310.8	300.3	288.0	275.4	265.2	252.4	237.2	224.7	211.3	199.0
315.0	322.1	311.4	295.8	283.3	271.6	260.9	247.9	235.0	218.9	205.6
360.0	322.1	311.4	295.8	283.3	271.6	260.9	247.9	235.0	218.9	205.6

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	197.3	184.0	171.0	158.1	143.3	135.1	120.0	107.7	98.7	87.2
45.0	206.2	192.6	178.6	165.9	155.2	141.4	128.5	118.6	106.3	94.2
90.0	206.2	192.6	178.6	165.9	155.2	141.4	128.5	118.6	106.3	94.2
135.0	195.7	182.6	172.5	156.6	144.3	131.1	123.6	111.6	99.7	86.1
180.0	195.7	182.6	172.5	156.6	144.3	131.1	123.6	111.6	99.7	86.1
225.0	190.7	178.6	163.6	153.8	141.6	131.3	117.4	108.1	97.0	83.9
270.0	190.7	178.6	163.6	153.8	141.6	131.3	117.4	108.1	97.0	83.9
315.0	197.3	184.0	171.0	158.1	143.3	135.1	120.0	107.7	98.7	87.2
360.0	197.3	184.0	171.0	158.1	143.3	135.1	120.0	107.7	98.7	87.2

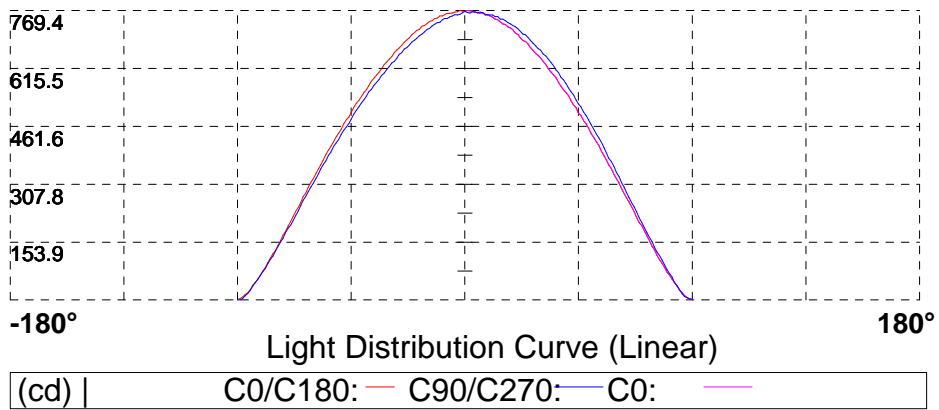
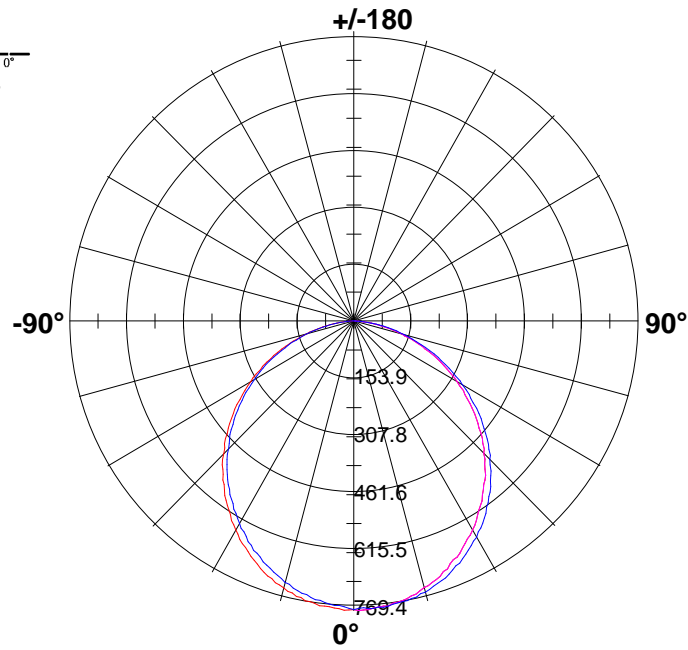
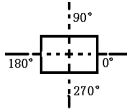
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	73.6	65.8	54.7	47.3	38.0	26.3	18.7	11.9	6.0	2.2
45.0	80.4	70.3	60.6	46.7	37.8	27.6	16.5	9.3	6.8	3.1
90.0	80.4	70.3	60.6	46.7	37.8	27.6	16.5	9.3	6.8	3.1
135.0	77.5	65.4	55.7	45.9	39.5	27.8	19.5	14.8	8.2	3.9
180.0	77.5	65.4	55.7	45.9	39.5	27.8	19.5	14.8	8.2	3.9
225.0	75.5	65.2	53.8	46.7	37.6	25.7	17.1	11.9	3.7	0.4
270.0	75.5	65.2	53.8	46.7	37.6	25.7	17.1	11.9	3.7	0.4
315.0	73.6	65.8	54.7	47.3	38.0	26.3	18.7	11.9	6.0	2.2
360.0	73.6	65.8	54.7	47.3	38.0	26.3	18.7	11.9	6.0	2.2

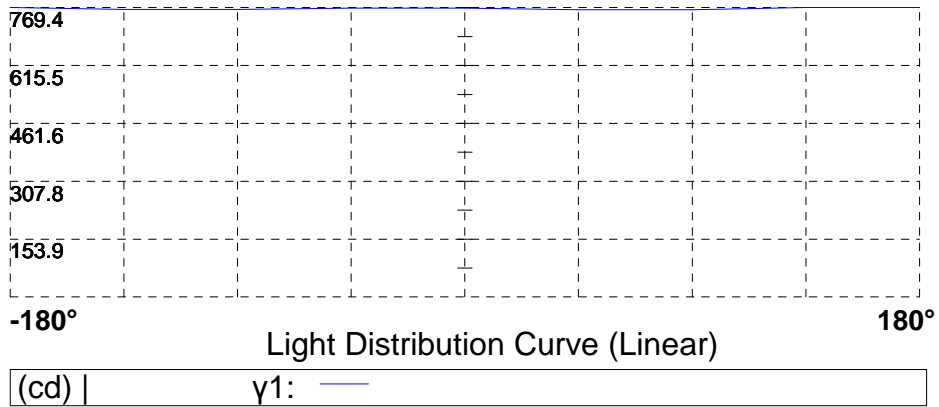
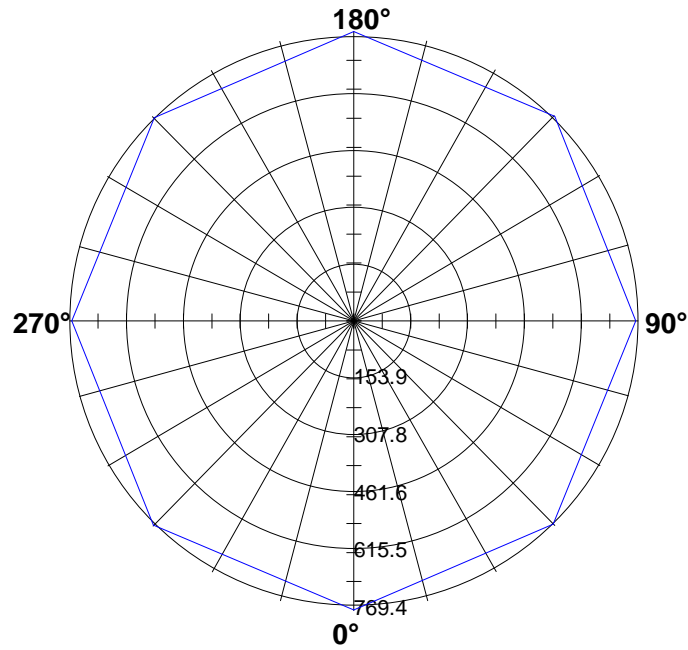
C\G	90.0
0.0	2.2
45.0	2.2
90.0	2.2
135.0	1.0
180.0	1.0
225.0	0.0
270.0	0.0
315.0	2.2
360.0	2.2

Light Distribution Curve [Unit: cd]

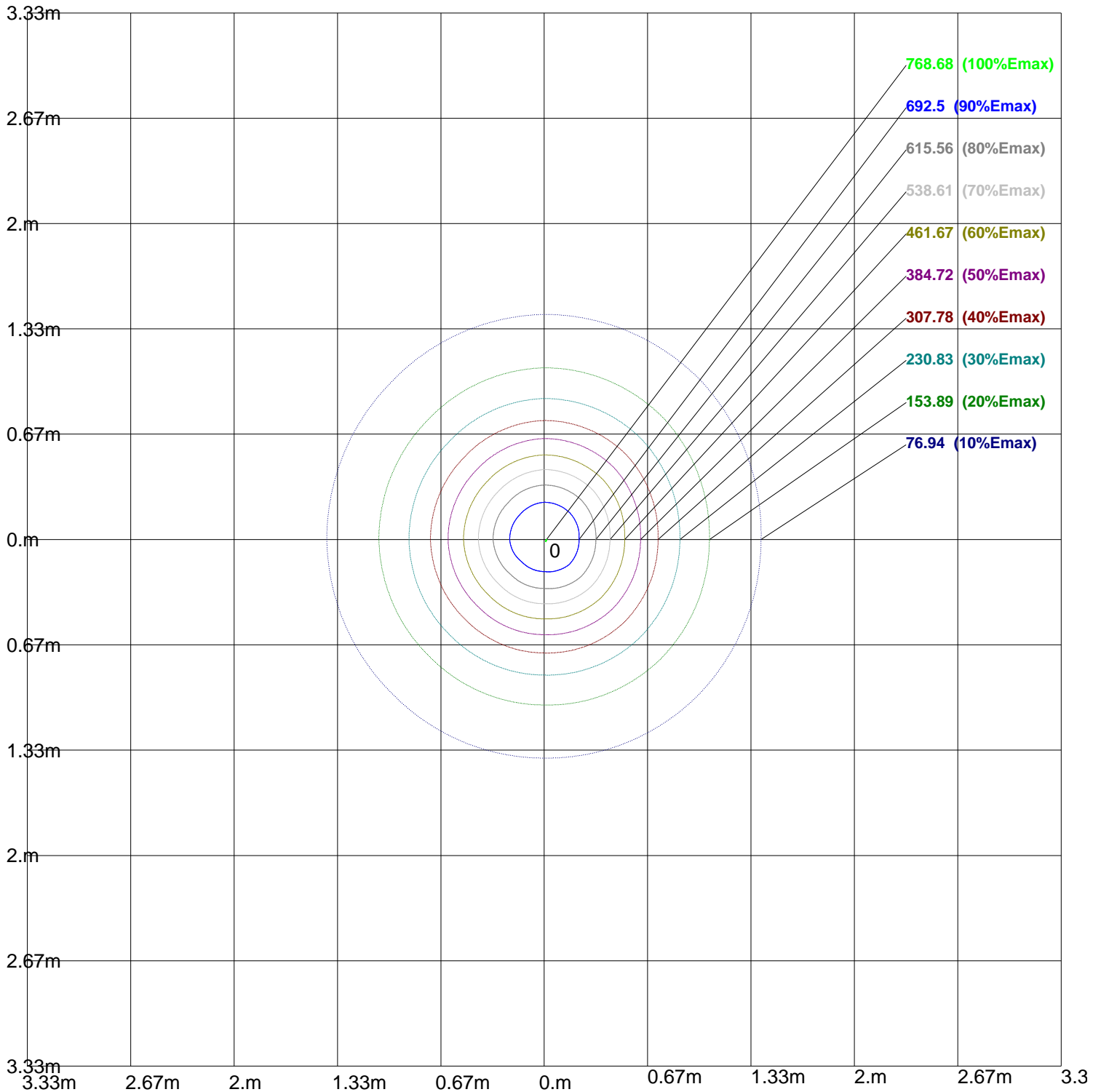
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 769.45lx

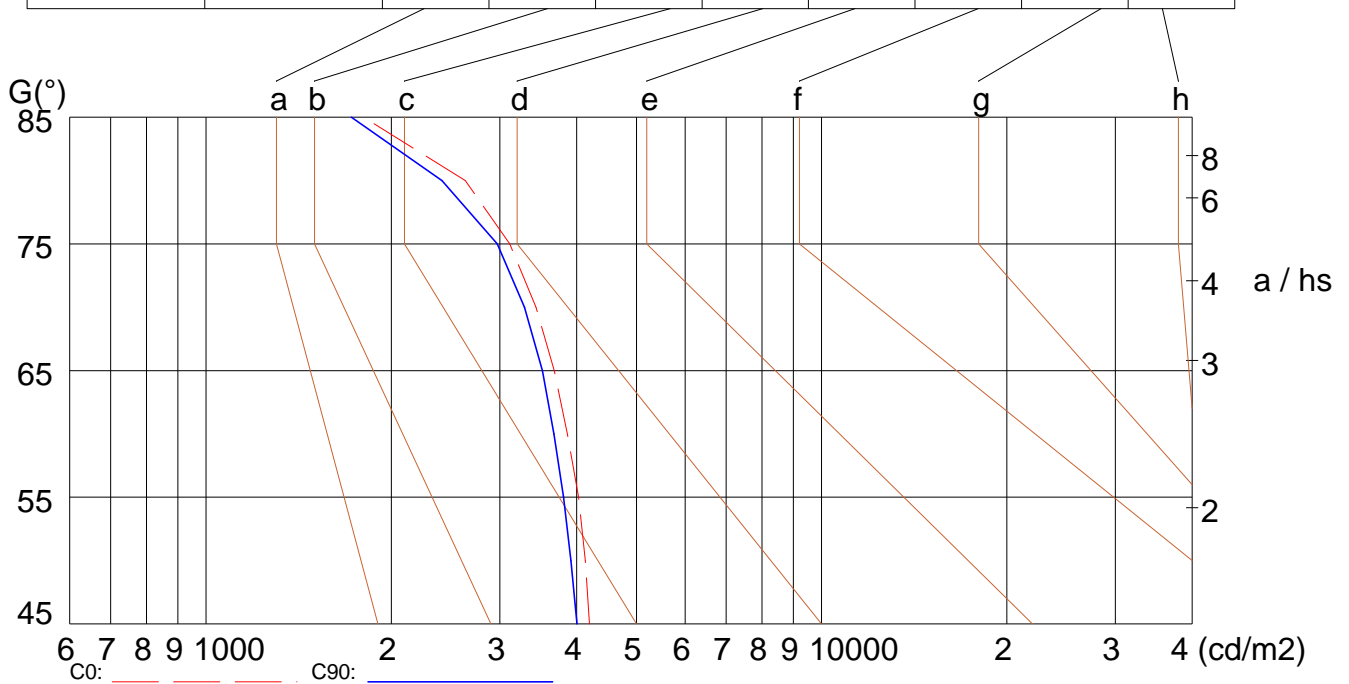
Luminance Limiting Curve

Diameter: mm
Length: 595mm
Width: 295mm
Height: mm

(cd/m²)

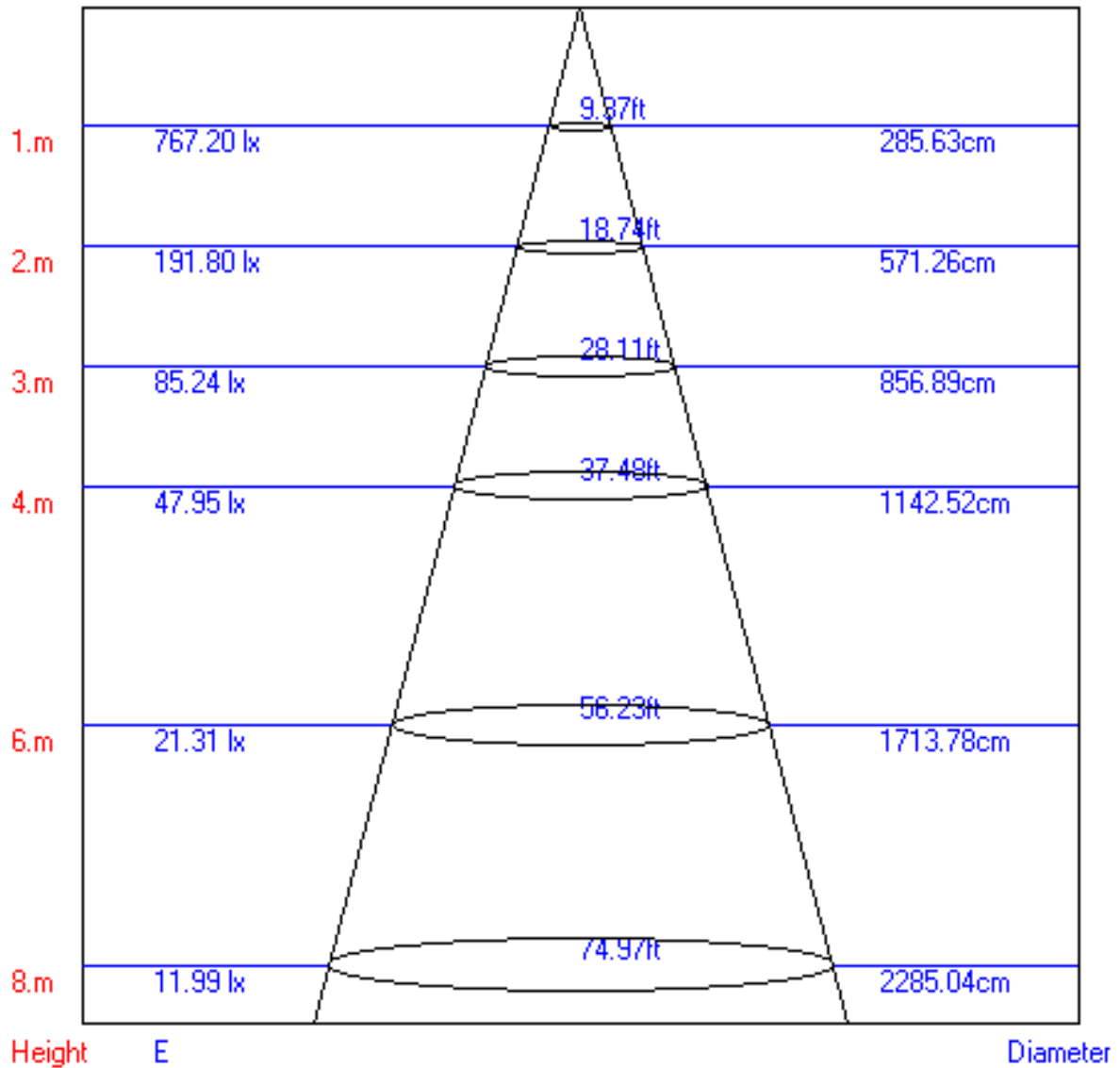
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4197	4129	4027	3861	3678	3435	3113	2637	1801
C90	4002	3916	3806	3671	3517	3288	2974	2416	1721

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)

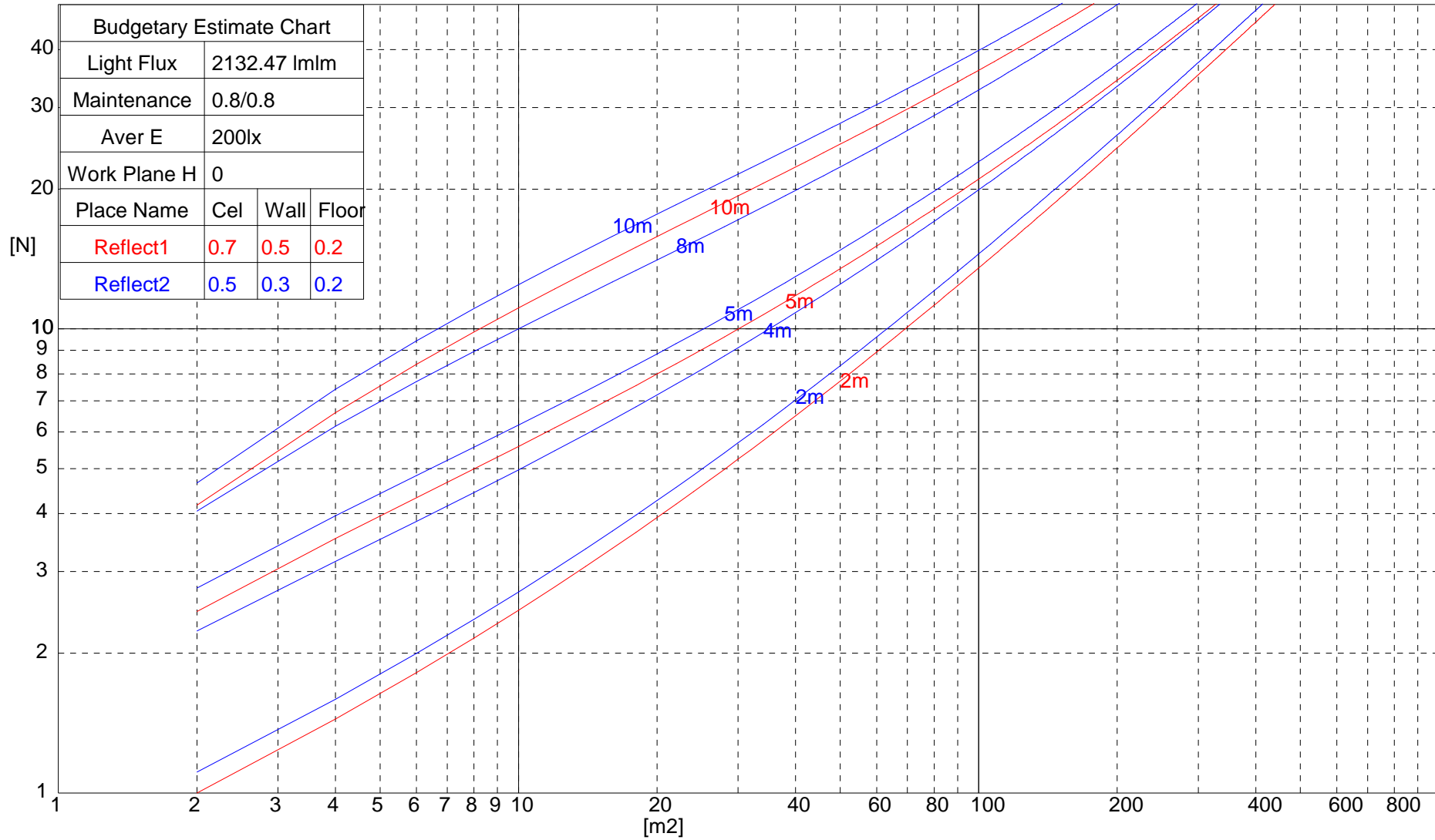
Lux-Distance Curve



Beam Angle:110.00°

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
RRC	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	1.05	1.03	1.01	1.03	1.01	1.00	1.00	0.97	0.95	0.95	0.93	0.90	0.88	0.86	0.84	0.79
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.66	0.63	0.61	0.66	0.62	0.60	0.66	0.61	0.57	0.64	0.59	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.53	0.58	0.54	0.52	0.58	0.53	0.49	0.58	0.52	0.47	0.56	0.50	0.45	0.41
6	0.51	0.48	0.46	0.51	0.48	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.45	0.39	0.36
7	0.45	0.42	0.41	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.37	0.47	0.40	0.35	0.32
8	0.40	0.38	0.36	0.41	0.38	0.36	0.43	0.38	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.37	0.34	0.33	0.37	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.30	0.40	0.33	0.28	0.25
10	0.33	0.31	0.30	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.37	0.31	0.26	0.23



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	14.6	16.0	14.9	15.9	16.4	14.7	15.9	14.9	15.9	16.5
	3H	16.2	17.4	16.7	17.8	18.0	16.2	17.3	16.5	17.9	18.0
	4H	17.0	18.1	17.3	18.6	18.8	16.9	17.9	17.3	18.5	18.7
	6H	17.5	18.6	18.0	18.8	19.0	17.4	18.4	17.9	18.9	19.0
	8H	17.9	18.9	18.1	18.9	19.3	17.8	18.8	17.9	19.0	19.4
	12H	17.9	18.8	18.1	19.3	19.6	17.7	18.6	18.1	19.1	19.5
4H	2H	15.7	16.6	15.8	16.8	17.1	15.6	16.6	15.7	16.9	17.0
	3H	17.5	18.3	17.8	18.5	18.9	17.4	18.2	17.6	18.4	18.7
	4H	18.2	19.0	18.6	19.1	19.4	18.0	18.9	18.4	19.2	19.4
	6H	18.8	19.6	19.2	19.7	20.2	18.6	19.4	19.0	19.7	20.1
	8H	19.1	19.8	19.4	20.0	20.4	18.9	19.6	19.4	19.9	20.3
	12H	19.3	19.9	19.5	20.1	20.5	19.1	19.8	19.5	20.2	20.5
8H	4H	18.4	19.2	18.9	19.3	19.8	18.4	19.1	18.8	19.4	19.8
	6H	19.3	19.8	19.8	20.2	20.5	19.2	19.7	19.7	20.2	20.5
	8H	19.6	20.2	20.1	20.5	21.0	19.6	19.9	20.0	20.4	20.9
	12H	20.0	20.4	20.4	20.8	21.2	19.9	20.4	20.3	20.7	21.2
12H	4H	18.6	19.1	19.0	19.4	19.9	18.4	19.0	18.9	19.5	19.9
	6H	19.5	20.0	19.8	20.2	20.6	19.5	19.8	19.7	20.2	20.6
	8H	20.0	20.4	20.4	20.5	21.1	19.8	20.2	20.3	20.6	21.1