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乐达凯

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Client:

LumCAT: ALDF12LAJUDWH 3000K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.175

Lamp flux(lm): 1806.3

Power (W): 20.850

Number of Lamps: 1

PF: 0.991

Length(mm): -320

Width(mm): -320

Phm Type: C

Height(mm): 80

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Photometric Results

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Lumens(lm): 1806.33, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 86.63

Central intensity(cd): 533.692, Maximum intensity(cd): 533.692

Angle of maximum intensity: C=15.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=114.2

[C90/270]Total=116.6

Field angle(10%Imax): [C0/180]Total=172.8

[C90/270]Total=172.4

Maximum s/h(1/2): C0\_180=1.25 C90\_270=1.25

Maximum s/h(1/4): C0\_180=1.38 C90\_270=1.38

Up flux rate of lamp(%): 10.93%

Down flux rate of lamp(%): 89.07%

Up flux rate of LUM(%): 10.93%

Down flux rate of LUM(%): 89.07%

CIE Type : Semidirect lighting

Output flux ratio in  $\pi$  solid angle : 66.720%

## 乐达凯 ALDF12LAJUDWH 3000K

## Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	533.692	0.000	0	0.00%	0.00%
5.0	531.397	12.733	12.733	0.70%	0.70%
10.0	524.202	37.762	50.495	2.09%	2.80%
15.0	511.957	61.464	111.959	3.40%	6.20%
20.0	494.999	82.987	194.946	4.59%	10.79%
25.0	473.760	101.605	296.551	5.62%	16.42%
30.0	448.958	116.771	413.322	6.46%	22.88%
35.0	420.639	128.054	541.376	7.09%	29.97%
40.0	390.700	135.366	676.742	7.49%	37.47%
45.0	356.081	138.273	815.015	7.65%	45.12%
50.0	320.427	136.698	951.713	7.57%	52.69%
55.0	283.304	131.271	1082.984	7.27%	59.96%
60.0	245.380	122.204	1205.188	6.77%	66.72%
65.0	204.615	109.395	1314.583	6.06%	72.78%
70.0	164.202	93.387	1407.97	5.17%	77.95%
75.0	125.429	75.705	1483.675	4.19%	82.14%
80.0	90.433	57.759	1541.433	3.20%	85.34%
85.0	58.184	40.383	1581.816	2.24%	87.57%
90.0	40.642	27.060	1608.876	1.50%	89.07%
95.0	38.235	21.597	1630.473	1.20%	90.26%
100.0	38.068	20.734	1651.207	1.15%	91.41%
105.0	37.423	20.199	1671.406	1.12%	92.53%
110.0	36.429	19.304	1690.71	1.07%	93.60%
115.0	35.298	18.162	1708.872	1.01%	94.60%
120.0	33.985	16.843	1725.715	0.93%	95.54%
125.0	32.456	15.358	1741.073	0.85%	96.39%
130.0	30.558	13.701	1754.774	0.76%	97.15%
135.0	28.323	11.898	1766.672	0.66%	97.80%
140.0	26.217	10.099	1776.771	0.56%	98.36%
145.0	23.880	8.358	1785.129	0.46%	98.83%
150.0	21.743	6.718	1791.847	0.37%	99.20%
155.0	19.861	5.265	1797.112	0.29%	99.49%
160.0	17.740	3.944	1801.056	0.22%	99.71%
165.0	14.735	2.676	1803.732	0.15%	99.86%
170.0	12.253	1.601	1805.333	0.09%	99.95%
175.0	10.374	0.809	1806.143	0.04%	99.99%
180.0	4.982	0.184	1806.326	0.01%	100.00%

Equipment: LC-I-902 GMS-2000  
Temperature( $^{\circ}$ C): 24.8

Date: 2026/1/3  
Humidity(%): 60.5%

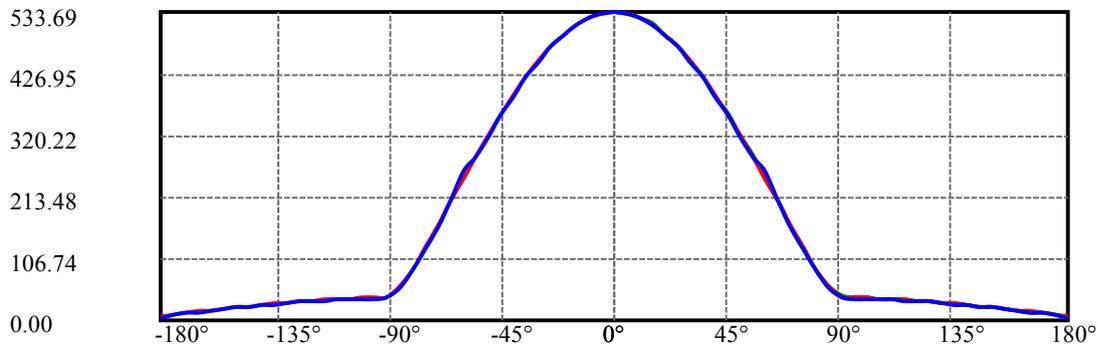
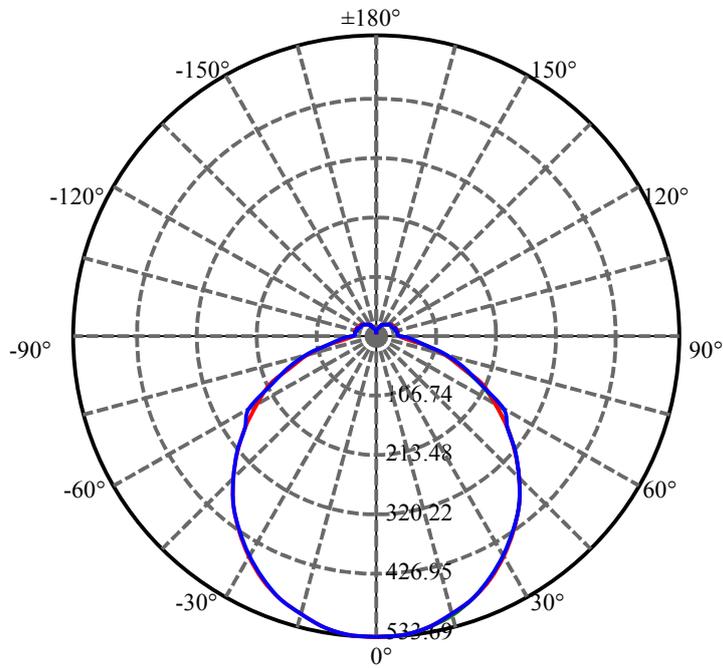
Operator: JUN WANG  
Distance(m): 30.18

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	413.32	22.88%	22.88%
0-40	676.74	37.47%	37.47%
0-60	1205.19	66.72%	66.72%
0-90	1608.88	89.07%	89.07%
0-120	1725.72	95.54%	95.54%
0-180	1806.33	100.00%	100.00%
60-90	403.69	22.35%	22.35%
90-120	116.84	6.47%	6.47%
90-130	145.90	8.08%	8.08%
90-150	182.97	10.13%	10.13%
90-180	197.27	10.92%	10.92%
0-72.45	1445.06	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	50.49
10-20	144.45
20-30	218.38
30-40	263.42
40-50	274.97
50-60	253.48
60-70	202.78
70-80	133.46
80-90	67.44
90-100	42.33
100-110	39.50
110-120	35.00
120-130	29.06
130-140	22.00
140-150	15.08
150-160	9.21
160-170	4.28
170-180	0.81



C15(Max): ———

C0/C180: ———

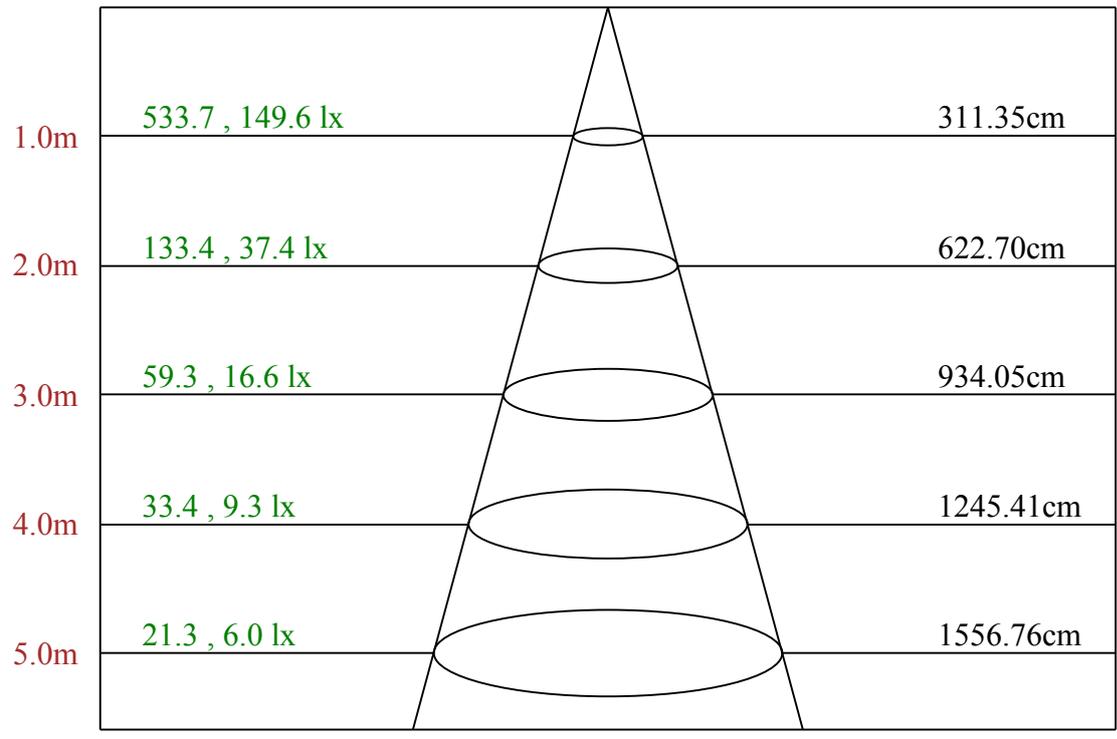
C90/C270: ———

Field angle(10%Imax):C0/180Left:86.4 Right:86.4

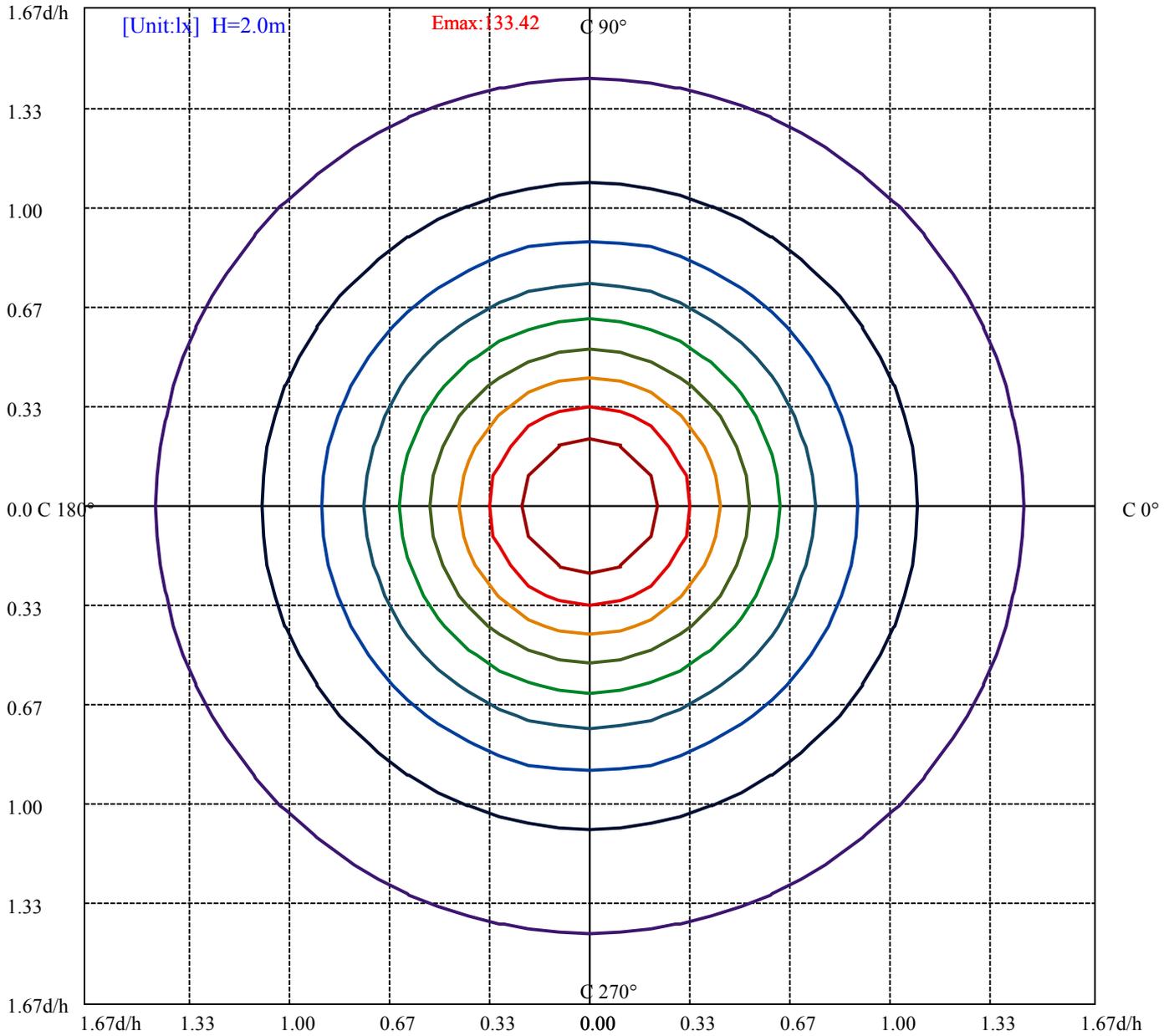
:C90/270Left:86.2 Right:86.2

Beam Angle(50%Imax):C0/180Left:57.1 Right:57.1

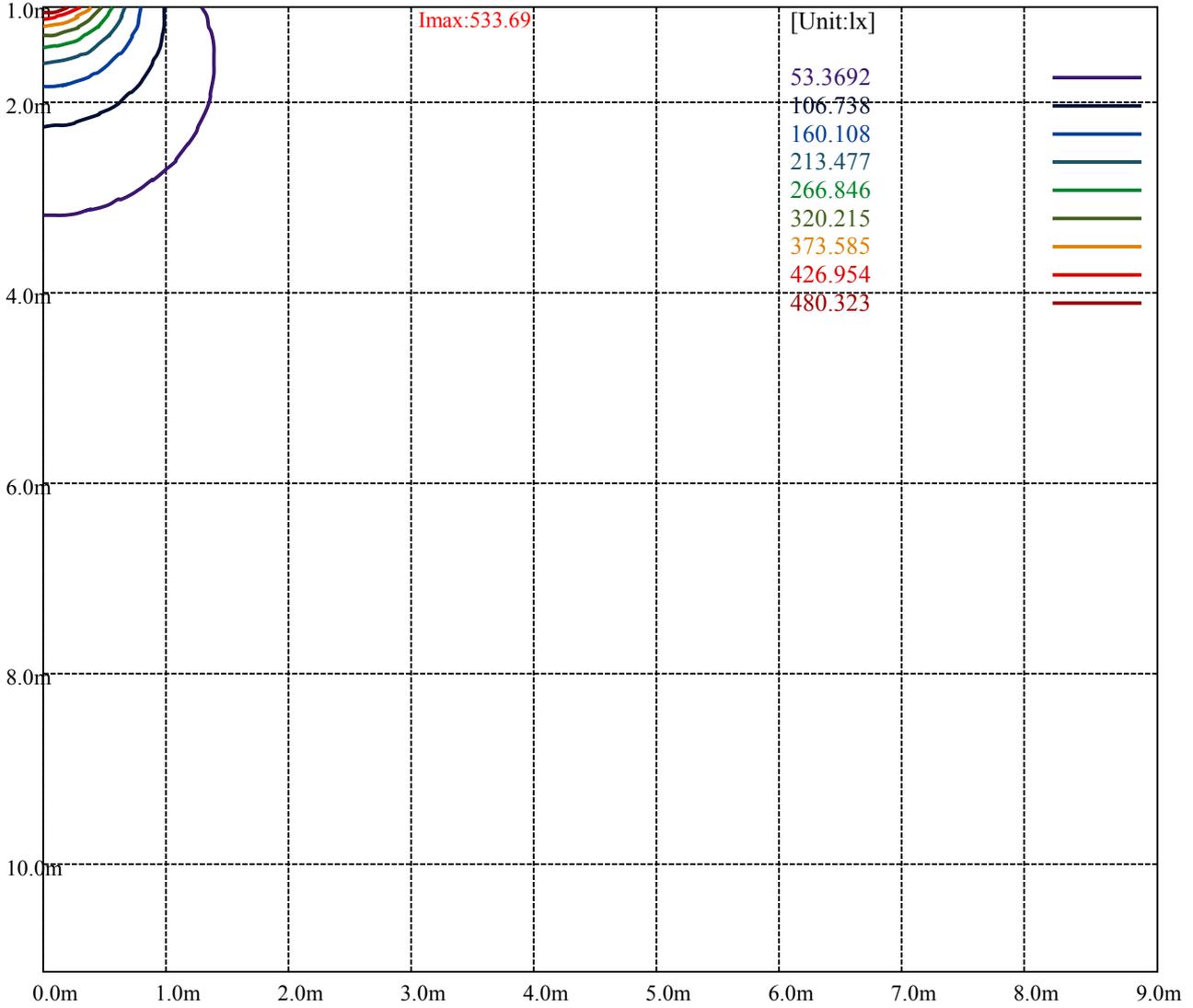
:C90/270Left:58.3 Right:58.3



Max , Ave      Beam angle of C15 plane 114.57



- (10%Emax) 13.3423
- (20%Emax) 26.6845
- (30%Emax) 40.027
- (40%Emax) 53.36925
- (50%Emax) 66.7115
- (60%Emax) 80.05375
- (70%Emax) 93.39625
- (80%Emax) 106.7385
- (90%Emax) 120.0807



# 乐达凯 ALDF12LAJUDWH 3000K

## Luminance Limiting Curve(no luminous side)

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Luminance Table

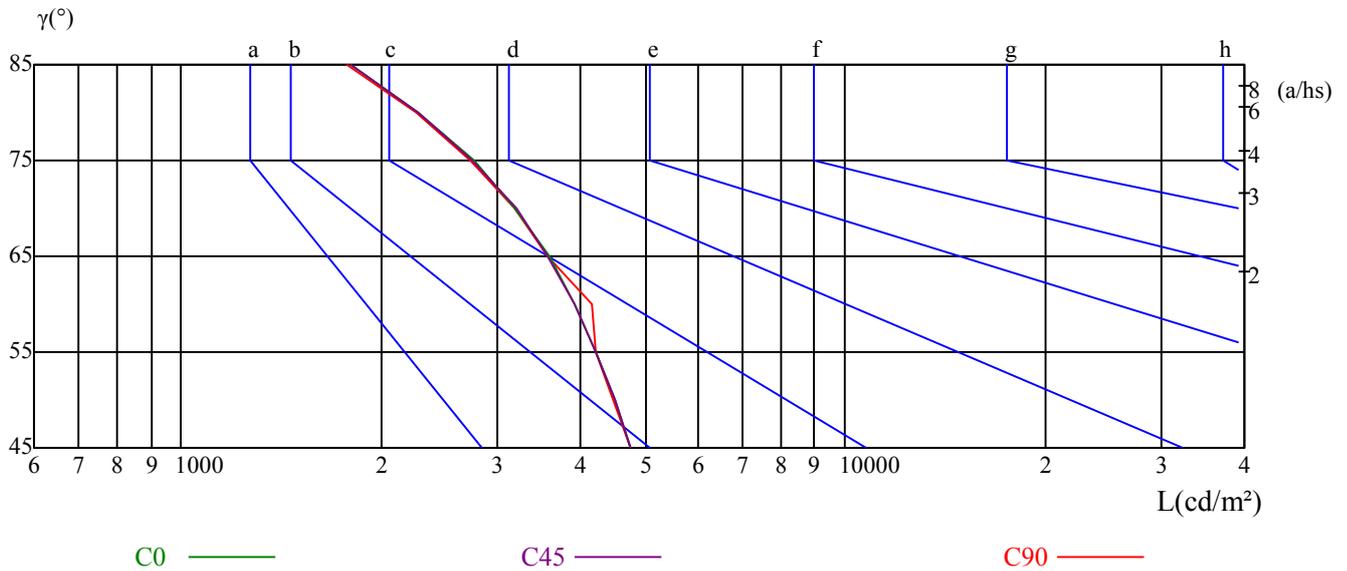
$\gamma$	45	50	55	60	65	70	75	80	85
C0	4753	4509	4216	3926	3578	3185	2762	2278	1802
C45	4751	4498	4214	3920	3565	3192	2748	2281	1797
C90	4743	4484	4204	4154	3568	3174	2729	2263	1773

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6020	6004	5998	6042	5970	6012	8357	8222	8335

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
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
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



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 RHOFC=20 CU															
0	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	0.98	0.98	0.98	0.92	0.92	0.92	0.89
1	1.00	0.95	0.91	0.97	0.93	0.89	0.90	0.87	0.84	0.85	0.82	0.79	0.79	0.77	0.75	0.72
2	0.87	0.80	0.74	0.84	0.77	0.72	0.79	0.73	0.69	0.74	0.69	0.65	0.69	0.66	0.62	0.60
3	0.76	0.67	0.61	0.73	0.66	0.60	0.69	0.62	0.57	0.65	0.59	0.55	0.61	0.56	0.52	0.50
4	0.67	0.58	0.51	0.65	0.57	0.50	0.61	0.54	0.48	0.57	0.51	0.47	0.54	0.49	0.45	0.42
5	0.60	0.51	0.44	0.58	0.49	0.43	0.55	0.47	0.42	0.51	0.45	0.40	0.49	0.43	0.39	0.36
6	0.54	0.45	0.38	0.52	0.44	0.38	0.49	0.42	0.36	0.46	0.40	0.35	0.44	0.38	0.34	0.32
7	0.49	0.40	0.34	0.47	0.39	0.33	0.45	0.37	0.32	0.42	0.36	0.31	0.40	0.34	0.30	0.28
8	0.44	0.36	0.30	0.43	0.35	0.29	0.41	0.34	0.29	0.39	0.32	0.28	0.37	0.31	0.27	0.25
9	0.41	0.32	0.27	0.40	0.32	0.26	0.38	0.31	0.26	0.36	0.29	0.25	0.34	0.28	0.24	0.22
10	0.37	0.29	0.24	0.36	0.29	0.24	0.35	0.28	0.23	0.33	0.27	0.23	0.32	0.26	0.22	0.20

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## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	533.69	532.78	527.22	516.29	500.71	481.85	459.53	430.74	400.22
15.0	533.69	532.78	527.86	516.75	501.09	480.78	458.37	429.05	400.63
30.0	533.69	532.69	527.05	515.86	500.04	481.21	457.28	429.81	399.15
45.0	533.69	533.24	527.87	517.22	501.49	481.29	457.27	429.43	400.31
60.0	533.69	532.96	527.51	516.96	501.77	481.95	458.04	430.66	400.02
75.0	533.69	532.87	527.96	517.68	502.40	482.57	458.83	431.36	400.70
90.0	533.69	533.51	528.78	518.58	503.38	483.53	460.40	433.27	403.05
105.0	533.69	533.78	528.68	519.12	504.18	484.87	461.55	434.59	404.25
120.0	533.69	534.06	529.77	520.19	505.59	486.34	464.63	437.72	407.52
135.0	533.69	533.33	529.78	521.67	506.18	487.33	464.28	437.59	407.72
150.0	533.69	534.33	531.32	521.10	494.92	488.62	467.37	439.09	412.63
165.0	533.69	534.79	531.05	522.02	508.08	490.30	466.51	441.54	408.63
180.0	533.69	530.23	521.67	507.73	489.23	467.64	440.13	411.89	379.82
195.0	533.69	530.87	521.76	508.01	489.43	466.94	440.80	411.38	379.32
210.0	533.69	530.24	521.41	507.49	489.12	466.20	440.63	411.25	379.32
225.0	533.69	530.05	521.50	507.58	488.84	466.28	439.98	410.60	379.57
240.0	533.69	529.69	520.42	506.23	488.32	464.49	439.21	409.93	378.01
255.0	533.69	529.60	519.14	506.13	487.12	464.10	437.54	408.07	377.69
270.0	533.69	529.23	519.40	504.74	485.44	463.86	437.46	407.96	375.82
285.0	533.69	529.23	519.39	504.45	485.14	461.73	434.95	407.35	398.24
300.0	533.69	528.86	518.55	503.59	499.39	460.98	434.16	404.42	374.04
315.0	533.69	527.77	517.39	502.90	483.23	459.82	432.77	403.07	370.73
330.0	533.69	528.49	518.09	502.67	482.88	459.16	432.06	403.23	370.76
345.0	533.69	528.13	517.28	501.97	482.01	458.40	431.24	401.34	368.62
360.0	533.69	532.78	527.22	516.29	500.71	481.85	459.53	430.74	400.22
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	367.33	334.35	295.18	258.83	218.83	178.38	138.39	100.67	68.97
15.0	367.66	332.33	295.35	256.46	218.39	175.86	137.98	100.18	66.94
30.0	366.13	330.75	295.09	256.34	218.23	175.84	135.72	99.79	64.77
45.0	367.11	331.72	294.41	255.47	215.35	174.59	136.11	98.35	64.87
60.0	366.92	331.36	295.54	254.98	216.51	175.87	135.67	97.66	64.20
75.0	368.68	333.30	296.09	257.25	216.95	178.29	135.99	99.70	65.86
90.0	369.91	334.76	297.53	260.47	220.32	179.45	139.02	100.60	68.37
105.0	373.01	336.12	302.96	261.88	221.71	180.81	142.65	103.93	69.50
120.0	374.77	339.65	304.98	263.84	225.98	185.01	144.42	105.55	70.98
135.0	377.29	342.50	305.70	266.89	226.99	188.37	145.56	108.85	73.78
150.0	378.60	343.94	306.99	268.40	230.63	189.85	149.16	110.11	76.36
165.0	378.64	344.01	309.28	270.90	231.07	190.32	151.49	114.21	76.93
180.0	345.29	308.75	270.67	230.95	190.41	150.05	113.15	77.80	48.19
195.0	346.35	308.28	271.76	232.15	191.80	151.36	112.57	77.32	48.00
210.0	344.94	308.64	270.62	231.05	192.48	150.46	113.52	78.14	48.58
225.0	344.00	309.06	269.30	231.55	191.24	151.12	112.45	77.33	49.13
240.0	343.64	307.36	269.26	229.70	191.14	151.04	112.49	77.48	48.29
255.0	341.48	307.01	268.98	229.50	189.21	149.18	112.43	102.43	47.85
270.0	341.23	304.72	266.66	257.74	187.82	147.85	109.52	76.75	46.89
285.0	339.40	302.87	267.07	225.35	187.37	147.47	109.22	75.06	47.00
300.0	337.55	302.79	264.66	225.06	184.74	143.23	109.11	73.35	47.26
315.0	336.21	299.68	261.52	224.17	181.91	144.19	106.48	72.87	45.91
330.0	336.00	299.42	261.19	221.51	181.36	141.59	104.09	72.34	44.34
345.0	333.80	296.88	258.51	218.67	180.30	140.65	103.09	69.91	43.48
360.0	367.33	334.35	295.18	258.83	218.83	178.38	138.39	100.67	68.97

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## Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	42.27	39.90	40.09	39.81	38.63	37.90	36.72	35.99	34.62
15.0	40.35	38.98	39.16	38.71	37.70	36.88	35.88	34.79	33.15
30.0	39.57	37.84	37.84	37.66	36.66	35.66	34.48	33.29	31.47
45.0	38.39	36.94	36.94	36.67	35.66	34.57	33.12	32.21	30.48
60.0	38.83	35.92	36.10	35.74	34.83	33.83	32.83	31.65	30.01
75.0	38.75	35.66	35.75	35.48	34.57	33.75	32.57	31.66	30.02
90.0	39.51	35.87	35.87	35.32	34.41	33.50	32.23	31.23	29.77
105.0	41.63	36.16	36.07	35.62	34.71	33.79	32.43	31.33	29.88
120.0	44.06	36.58	36.40	36.04	35.12	34.12	32.84	31.57	29.92
135.0	45.09	36.89	36.71	36.16	35.34	34.25	32.97	31.52	29.60
150.0	45.80	37.04	36.86	36.49	35.67	34.30	32.84	31.38	29.28
165.0	47.40	37.10	36.83	36.37	35.64	34.46	32.91	31.36	29.62
180.0	37.54	37.35	36.99	36.17	35.26	33.89	32.25	29.97	27.70
195.0	37.61	37.34	37.07	36.16	35.25	34.15	32.60	30.97	28.78
210.0	37.66	37.39	36.93	36.11	35.20	34.02	32.57	30.93	29.29
225.0	37.94	37.67	37.30	36.39	35.48	34.21	33.84	31.39	29.66
240.0	38.37	38.19	38.19	37.10	36.01	34.74	33.46	31.92	30.01
255.0	38.93	38.84	38.57	37.66	36.48	35.39	33.84	32.11	30.29
270.0	39.69	39.51	39.33	38.51	37.15	35.78	34.14	32.50	30.50
285.0	40.44	40.44	39.99	39.17	37.89	36.34	34.80	32.97	30.61
300.0	41.14	41.14	40.87	39.96	38.86	37.50	35.85	33.75	31.38
315.0	41.54	41.72	41.35	40.44	39.44	38.17	36.62	34.71	32.52
330.0	41.69	41.69	41.42	40.41	39.41	38.23	37.22	35.12	32.48
345.0	41.20	41.47	41.02	40.02	38.92	37.74	36.64	34.64	32.36
360.0	42.27	39.90	40.09	39.81	38.63	37.90	36.72	35.99	34.62
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	32.07	29.70	27.51	25.14	22.96	20.41	18.13	15.31	12.48
15.0	30.97	28.87	26.87	24.95	22.59	20.04	16.76	14.03	11.75
30.0	29.20	27.11	25.29	23.20	20.83	18.37	15.92	13.46	11.10
45.0	28.29	26.02	24.02	22.02	19.92	17.83	15.01	12.83	10.74
60.0	27.92	26.01	24.01	22.10	20.46	18.00	14.91	12.46	10.55
75.0	27.93	25.65	23.65	21.56	20.38	18.28	15.19	12.46	10.37
90.0	27.59	25.67	23.76	21.58	19.76	18.03	15.20	12.75	10.20
105.0	27.87	26.14	23.68	21.50	19.68	17.85	15.21	12.75	10.02
120.0	27.82	25.91	23.63	21.71	19.71	17.61	14.87	12.77	10.58
135.0	27.14	24.96	22.95	21.04	19.22	17.31	14.48	12.48	10.11
150.0	27.00	24.72	22.72	20.71	18.70	16.88	14.14	12.32	9.94
165.0	27.16	24.98	22.70	20.69	18.59	16.86	14.31	12.31	10.03
180.0	25.42	23.05	20.95	18.77	16.76	14.58	11.84	10.20	10.20
195.0	26.23	23.86	22.13	20.22	18.21	17.58	13.02	11.11	9.93
210.0	26.83	26.29	22.56	20.83	18.92	16.28	13.55	11.37	9.82
225.0	27.75	25.38	23.11	20.93	19.47	17.10	14.10	11.37	10.10
240.0	27.83	25.55	23.19	21.55	20.01	17.37	14.28	11.46	10.18
255.0	28.20	25.83	23.74	22.20	20.65	17.65	14.19	11.73	10.73
270.0	28.13	25.95	23.76	21.94	20.39	17.66	14.11	11.74	10.74
285.0	28.69	26.23	23.50	21.41	19.95	17.67	14.48	11.93	10.66
300.0	29.01	26.73	24.18	21.80	20.16	18.34	14.69	11.86	10.22
315.0	30.24	27.96	24.87	22.04	20.22	18.40	15.12	12.39	9.56
330.0	30.20	28.55	25.36	22.17	19.61	18.15	15.24	11.68	9.49
345.0	30.26	28.07	24.98	21.79	19.51	17.50	14.86	11.30	9.48
360.0	32.07	29.70	27.51	25.14	22.96	20.41	18.13	15.31	12.48

Intensity data(cd)

C/γ(°)	180.0
0.0	10.02
15.0	10.20
30.0	10.73
45.0	10.74
60.0	10.55
75.0	10.19
90.0	9.65
105.0	9.38
120.0	9.21
135.0	9.29
150.0	9.67
165.0	9.94
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	10.02