
乐达凯

Client:

LumCAT: ALDF19LAJUDGY

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.030

LampCAT:

Current(A): 0.347

Lamp flux(lm): 2527.8

Power (W): 41.330

Number of Lamps: 1

PF: 0.991

Length(mm): -490

Width(mm): -490

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 2527.76, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 61.16

Central intensity(cd): 757.826, Maximum intensity(cd): 757.826

Angle of maximum intensity: C=60.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=116.8

[C90/270]Total=120.0

Field angle(10%Imax): [C0/180]Total=169.0

[C90/270]Total=168.6

Maximum s/h(1/2): C0_180=1.28 C90_270=1.28

Maximum s/h(1/4): C0_180=1.40 C90_270=1.40

Up flux rate of lamp(%): 8.22%

Down flux rate of lamp(%): 91.78%

Up flux rate of LUM(%): 8.22%

Down flux rate of LUM(%): 91.78%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 69.368%

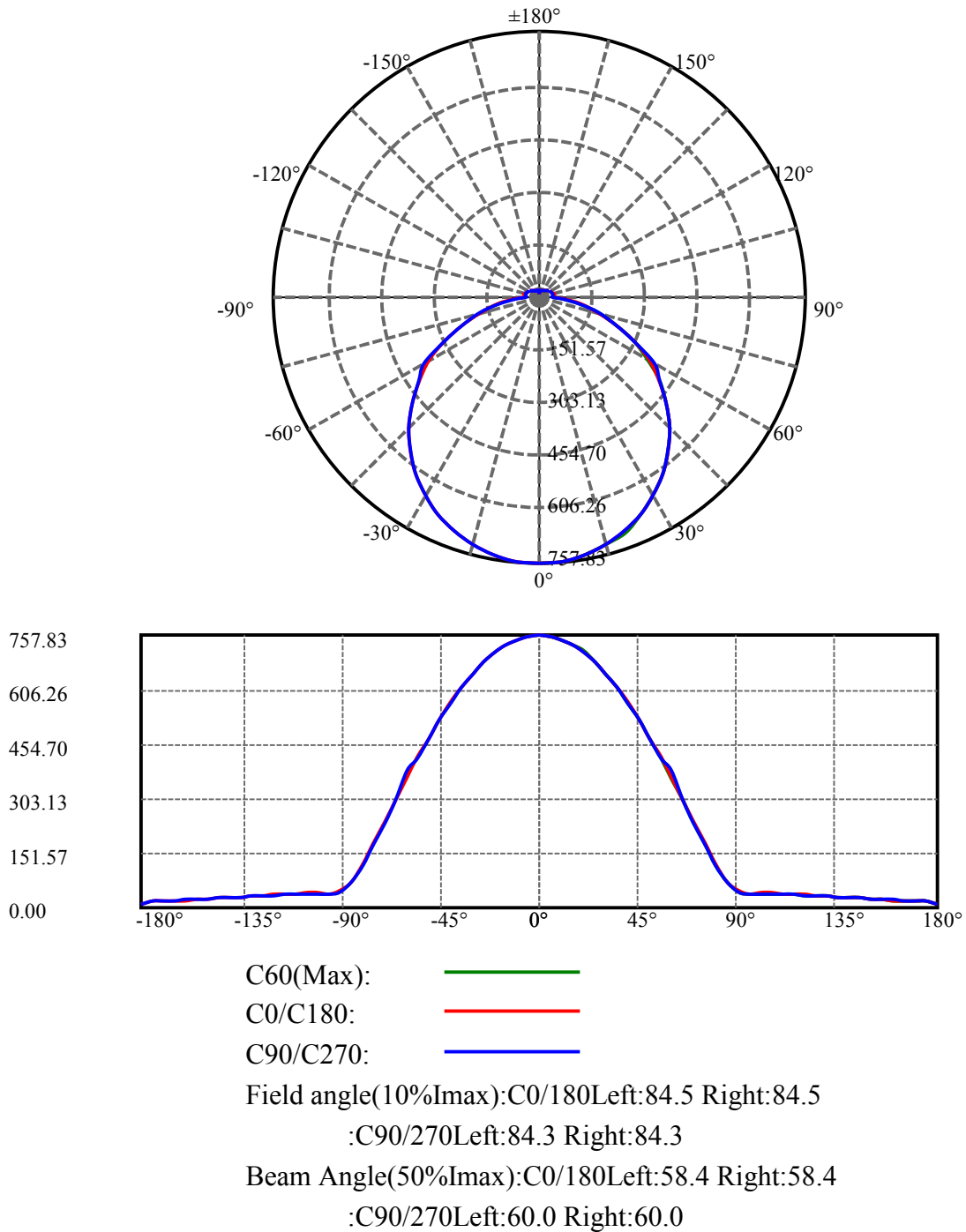
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	757.826	0.000	0	0.00%	0.00%
5.0	754.855	18.084	18.084	0.72%	0.72%
10.0	745.785	53.683	71.766	2.12%	2.84%
15.0	730.717	87.585	159.351	3.46%	6.30%
20.0	709.903	118.727	278.079	4.70%	11.00%
25.0	682.593	146.047	424.126	5.78%	16.78%
30.0	650.574	168.713	592.839	6.67%	23.45%
35.0	613.352	186.122	778.961	7.36%	30.82%
40.0	572.312	197.819	976.78	7.83%	38.64%
45.0	523.154	202.834	1179.614	8.02%	46.67%
50.0	471.794	201.044	1380.658	7.95%	54.62%
55.0	416.781	193.206	1573.864	7.64%	62.26%
60.0	360.124	179.580	1753.444	7.10%	69.37%
65.0	298.157	160.030	1913.473	6.33%	75.70%
70.0	236.650	135.417	2048.89	5.36%	81.06%
75.0	177.123	108.154	2157.044	4.28%	85.33%
80.0	121.885	80.006	2237.05	3.17%	88.50%
85.0	69.695	52.057	2289.107	2.06%	90.56%
90.0	43.055	30.872	2319.979	1.22%	91.78%
95.0	38.068	22.212	2342.191	0.88%	92.66%
100.0	40.050	21.226	2363.417	0.84%	93.50%
105.0	38.888	21.122	2384.539	0.84%	94.33%
110.0	37.298	19.914	2404.452	0.79%	95.12%
115.0	36.432	18.669	2423.121	0.74%	95.86%
120.0	35.138	17.399	2440.52	0.69%	96.55%
125.0	33.351	15.831	2456.351	0.63%	97.18%
130.0	31.495	14.100	2470.451	0.56%	97.73%
135.0	29.632	12.352	2482.803	0.49%	98.22%
140.0	27.917	10.656	2493.459	0.42%	98.64%
145.0	26.137	9.019	2502.477	0.36%	99.00%
150.0	24.441	7.448	2509.925	0.29%	99.29%
155.0	22.753	5.972	2515.898	0.24%	99.53%
160.0	21.143	4.604	2520.501	0.18%	99.71%
165.0	19.474	3.347	2523.849	0.13%	99.85%
170.0	18.581	2.257	2526.106	0.09%	99.93%
175.0	18.342	1.321	2527.427	0.05%	99.99%
180.0	9.270	0.330	2527.757	0.01%	100.00%

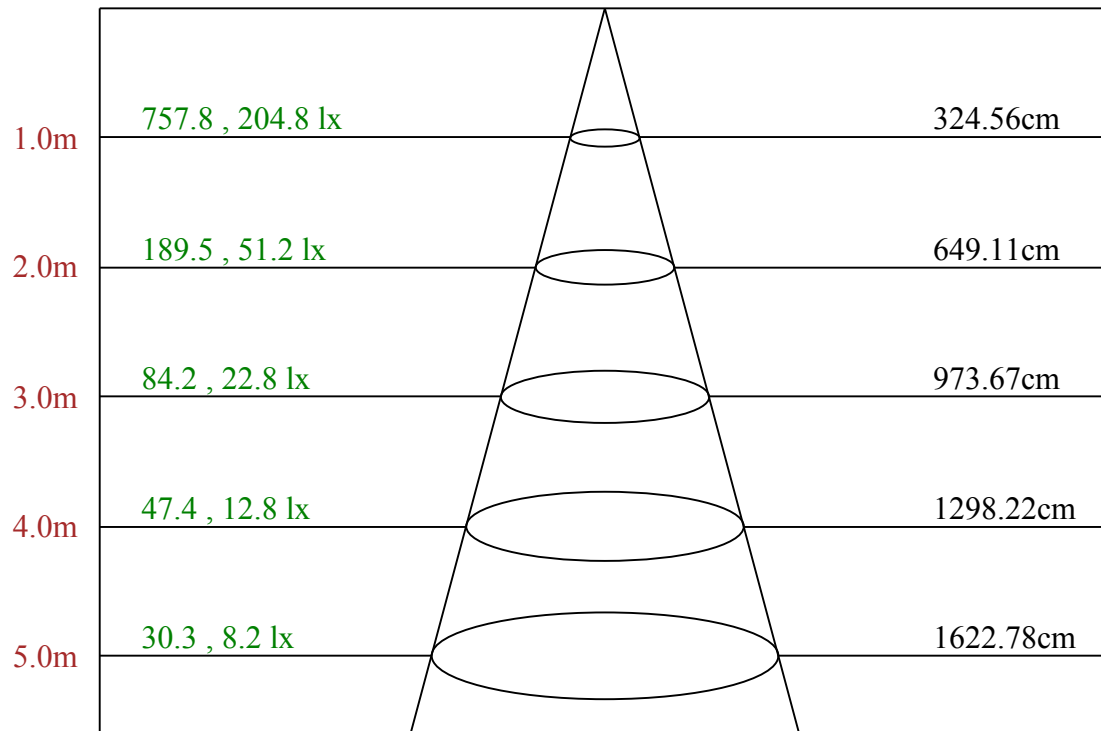
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	592.84	23.45%	23.45%
0-40	976.78	38.64%	38.64%
0-60	1753.44	69.37%	69.37%
0-90	2319.98	91.78%	91.78%
0-120	2440.52	96.55%	96.55%
0-180	2527.76	100.00%	100.00%
60-90	566.53	22.41%	22.41%
90-120	120.54	4.77%	4.77%
90-130	150.47	5.95%	5.95%
90-150	189.95	7.51%	7.51%
90-180	207.45	8.21%	8.21%
0-69.01	2022.21	80.00%	80.00%

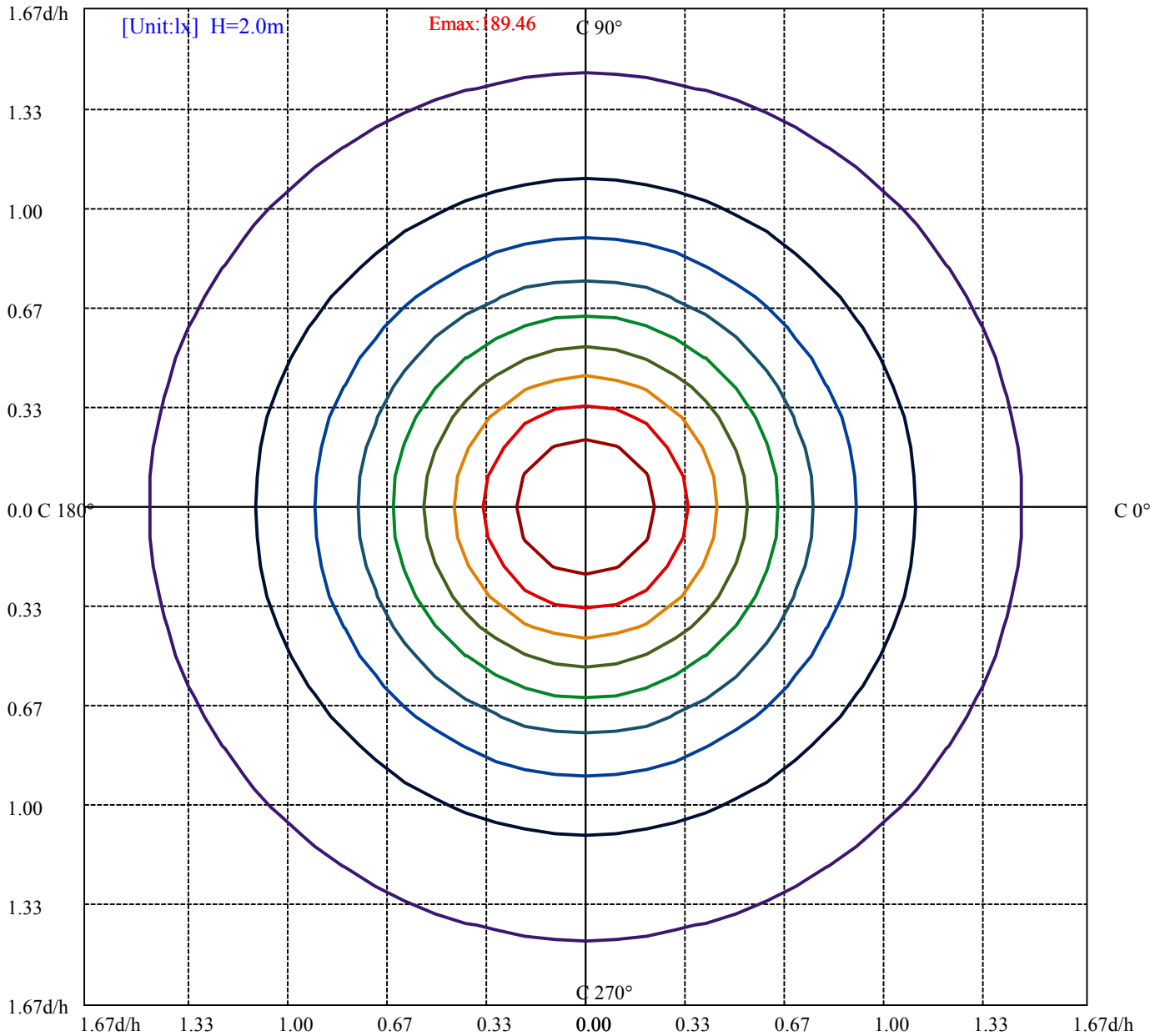
ZONAL LUMEN SUMMARY

0-10	71.77
10-20	206.31
20-30	314.76
30-40	383.94
40-50	403.88
50-60	372.79
60-70	295.45
70-80	188.16
80-90	82.93
90-100	43.44
100-110	41.04
110-120	36.07
120-130	29.93
130-140	23.01
140-150	16.47
150-160	10.58
160-170	5.60
170-180	1.32

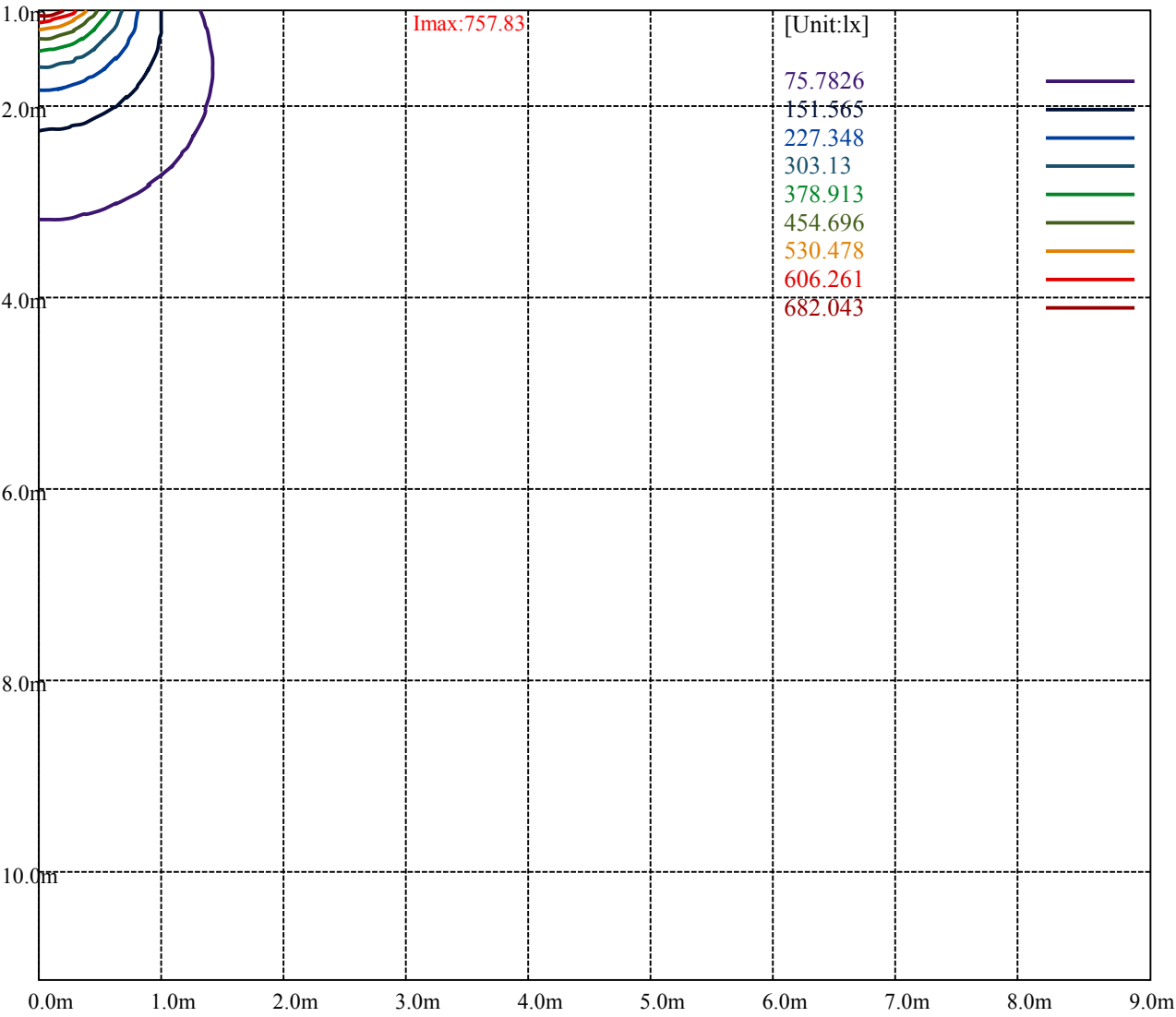




Max , Ave Beam angle of C60 plane 116.71



(10%Emax) 18.94565	—
(20%Emax) 37.89125	—
(30%Emax) 56.837	—
(40%Emax) 75.7825	—
(50%Emax) 94.72825	—
(60%Emax) 113.6738	—
(70%Emax) 132.6195	—
(80%Emax) 151.5652	—
(90%Emax) 170.5108	—



Luminance Table

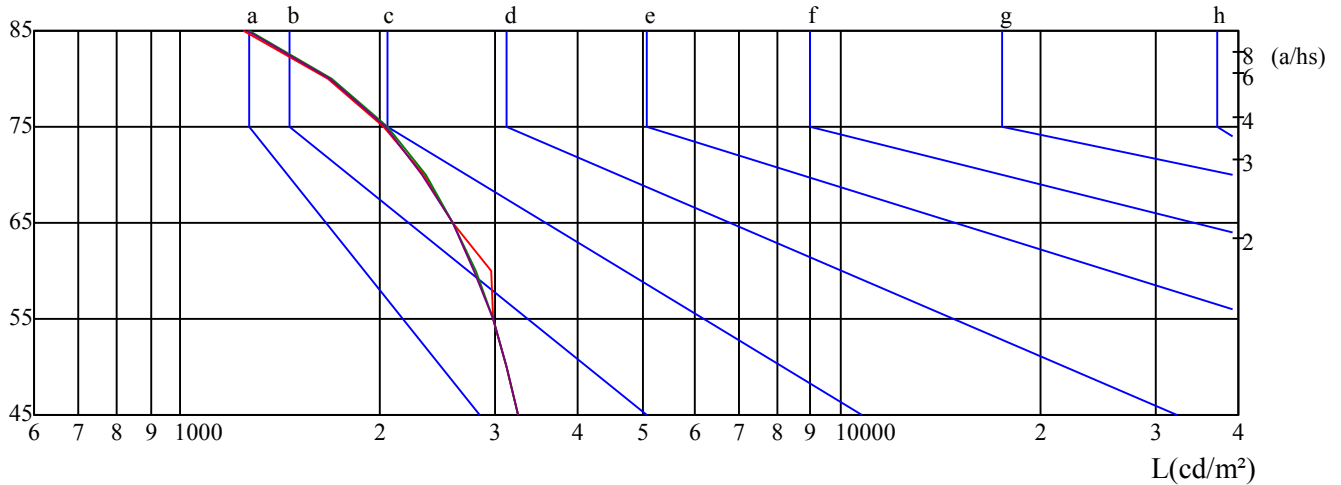
γ	45	50	55	60	65	70	75	80	85
C0	3251	3119	2977	2809	2589	2352	2056	1698	1272
C45	3246	3123	2971	2791	2585	2326	2047	1683	1263
C90	3243	3111	2969	2959	2584	2331	2027	1677	1244

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3743	3735	3737	3652	3599	3635	4295	4200	4264

Glare Table

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
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

RHOC	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	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	0.94	0.94	0.94	0.92
1	1.01	0.96	0.92	0.98	0.94	0.90	0.92	0.89	0.86	0.87	0.84	0.82	0.82	0.80	0.78	0.75
2	0.87	0.80	0.74	0.85	0.78	0.73	0.80	0.75	0.70	0.75	0.71	0.67	0.71	0.68	0.64	0.62
3	0.76	0.68	0.61	0.74	0.67	0.60	0.70	0.64	0.58	0.66	0.61	0.56	0.63	0.58	0.54	0.52
4	0.68	0.59	0.52	0.66	0.57	0.51	0.62	0.55	0.49	0.59	0.53	0.48	0.56	0.51	0.46	0.44
5	0.60	0.51	0.44	0.59	0.50	0.44	0.56	0.48	0.42	0.53	0.46	0.41	0.50	0.44	0.40	0.38
6	0.54	0.45	0.39	0.53	0.44	0.38	0.50	0.43	0.37	0.48	0.41	0.36	0.45	0.40	0.35	0.33
7	0.49	0.40	0.34	0.48	0.39	0.33	0.45	0.38	0.33	0.43	0.37	0.32	0.41	0.35	0.31	0.29
8	0.45	0.36	0.30	0.44	0.35	0.30	0.41	0.34	0.29	0.40	0.33	0.28	0.38	0.32	0.28	0.26
9	0.41	0.33	0.27	0.40	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.35	0.29	0.25	0.23
10	0.38	0.30	0.24	0.37	0.29	0.24	0.35	0.28	0.24	0.34	0.28	0.23	0.32	0.27	0.23	0.21

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Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	757.83	758.10	753.03	741.62	724.59	701.04	672.24	640.19	600.61
15.0	757.83	758.28	753.11	741.58	724.62	701.30	672.44	638.42	598.68
30.0	757.83	758.28	753.46	741.92	724.10	700.64	671.83	639.10	599.55
45.0	757.83	758.19	752.55	741.63	723.90	700.52	671.59	639.48	597.55
60.0	757.83	758.19	752.91	741.26	723.78	699.66	671.72	637.50	597.63
75.0	757.83	757.73	752.18	740.89	723.04	699.36	670.50	635.62	598.47
90.0	757.83	758.19	752.72	741.33	723.47	699.33	670.99	636.27	596.00
105.0	757.83	758.19	753.81	740.76	724.25	700.52	671.32	636.19	595.86
120.0	757.83	758.37	752.99	741.77	723.89	700.26	671.16	636.31	596.26
135.0	757.83	757.92	752.90	741.86	724.25	700.70	672.60	636.56	598.14
150.0	757.83	758.28	753.26	742.30	708.05	700.56	673.16	638.36	598.53
165.0	757.83	758.92	754.08	742.38	726.74	701.23	674.45	639.98	596.83
180.0	757.83	751.94	738.08	721.15	696.15	665.63	629.50	588.20	544.01
195.0	757.83	751.38	739.04	720.35	695.13	666.00	628.80	589.33	543.78
210.0	757.83	751.55	739.64	720.19	696.28	664.64	630.46	589.55	543.64
225.0	757.83	751.73	738.91	719.80	695.15	664.86	629.20	588.27	545.06
240.0	757.83	751.45	738.71	719.96	695.93	665.81	630.13	589.44	543.93
255.0	757.83	751.82	738.98	719.85	694.99	664.76	629.15	588.45	545.38
270.0	757.83	751.45	738.69	719.65	695.59	665.34	629.71	589.08	543.70
285.0	757.83	751.99	738.85	720.05	695.14	664.75	628.89	591.02	578.52
300.0	757.83	751.62	738.12	718.96	713.76	664.04	628.10	587.23	541.71
315.0	757.83	750.53	737.29	718.50	695.41	663.20	629.53	588.92	543.30
330.0	757.83	751.16	737.18	720.10	695.17	664.57	628.77	587.85	544.46
345.0	757.83	751.24	738.35	719.34	694.29	663.47	627.54	589.15	543.89
360.0	757.83	758.10	753.03	741.62	724.59	701.04	672.24	640.19	600.61
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	556.05	507.24	453.99	399.74	337.80	279.48	217.98	158.03	101.97
15.0	554.03	505.13	455.04	398.51	338.99	278.20	219.31	156.52	102.99
30.0	555.01	506.10	452.82	396.09	340.19	279.09	217.55	157.37	101.00
45.0	553.06	506.40	453.37	396.42	337.02	275.80	214.40	157.46	100.88
60.0	552.94	503.79	453.55	393.29	337.14	272.51	214.26	154.00	97.66
75.0	550.84	504.22	450.49	393.39	333.56	272.19	210.45	153.53	97.26
90.0	551.17	501.51	450.94	390.35	333.58	271.99	210.21	150.16	97.22
105.0	552.42	500.59	448.67	391.19	330.87	269.19	210.69	150.56	94.90
120.0	550.92	501.11	446.92	392.19	331.79	269.94	208.09	148.24	93.14
135.0	552.88	503.06	448.95	391.37	330.96	269.00	209.78	149.83	94.53
150.0	553.23	503.27	451.12	393.57	333.29	271.45	209.44	152.44	94.35
165.0	555.41	505.67	451.73	394.14	333.89	274.64	212.66	152.59	96.91
180.0	491.21	436.33	381.18	320.68	258.83	197.24	138.47	84.22	39.21
195.0	493.33	438.80	381.00	320.39	258.69	197.26	138.28	86.38	40.20
210.0	493.28	439.00	383.37	320.55	261.55	200.00	140.82	85.91	39.45
225.0	492.21	440.63	382.87	322.47	260.80	196.67	143.27	85.23	40.57
240.0	493.87	439.53	381.83	325.03	263.50	201.97	142.35	87.20	39.96
255.0	492.74	441.11	383.65	323.46	261.81	200.43	144.24	128.49	40.52
270.0	493.49	439.46	381.87	368.66	261.78	200.37	141.14	89.11	40.82
285.0	493.75	439.55	381.79	321.56	263.44	198.56	142.62	87.78	42.25
300.0	494.82	440.90	383.25	323.13	261.37	199.79	140.76	86.39	43.97
315.0	493.20	439.09	381.70	321.29	262.62	201.20	142.26	87.87	44.35
330.0	491.94	440.70	380.15	323.33	261.68	200.30	141.39	87.04	44.48
345.0	493.88	439.85	382.52	322.18	260.65	202.32	140.52	88.87	44.07
360.0	556.05	507.24	453.99	399.74	337.80	279.48	217.98	158.03	101.97

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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	52.71	35.59	42.84	48.00	39.67	38.94	37.95	36.41	34.59
15.0	53.08	35.02	42.10	44.01	38.65	37.75	36.75	35.39	33.84
30.0	53.18	34.64	41.91	41.82	38.00	37.00	35.91	34.45	33.09
45.0	50.49	33.93	41.12	39.21	37.20	36.29	34.93	33.47	31.93
60.0	47.69	33.50	38.77	38.87	36.59	35.59	34.31	32.95	31.13
75.0	47.53	33.69	39.16	39.34	36.15	35.70	34.51	32.96	31.05
90.0	45.38	33.62	38.82	37.72	35.99	35.63	34.72	33.35	31.53
105.0	45.99	34.40	39.24	36.68	36.04	35.86	35.13	33.85	31.94
120.0	47.07	34.76	38.41	36.40	35.76	35.58	34.67	33.66	32.20
135.0	46.54	35.31	38.23	36.68	35.86	35.50	34.58	33.58	32.21
150.0	48.41	35.53	38.00	37.17	36.44	35.71	34.89	33.61	32.06
165.0	48.46	35.93	38.40	37.76	36.94	35.93	34.74	33.46	31.54
180.0	37.95	39.12	38.58	37.58	36.50	35.23	33.42	31.06	29.25
195.0	37.20	38.56	38.38	37.38	36.39	35.39	33.75	31.49	29.40
210.0	36.64	38.09	38.00	37.45	36.55	35.45	34.00	32.00	30.09
225.0	36.39	37.66	37.48	37.20	36.84	35.66	35.48	32.38	30.47
240.0	36.50	37.59	37.41	36.68	36.41	35.68	34.59	33.04	31.40
255.0	37.06	38.16	37.24	36.88	36.52	36.06	34.88	33.06	31.23
270.0	36.36	40.91	38.09	37.63	37.45	36.90	35.26	33.26	30.98
285.0	36.41	45.08	38.78	38.14	37.69	36.77	35.22	33.03	30.93
300.0	36.95	45.98	40.32	39.14	38.13	37.13	35.40	33.21	30.93
315.0	38.42	46.81	45.08	40.06	39.24	37.78	35.86	33.40	31.02
330.0	38.82	45.21	47.95	40.83	40.01	38.27	36.08	33.52	31.42
345.0	38.12	44.52	46.90	40.68	40.14	38.58	36.30	33.83	31.63
360.0	52.71	35.59	42.84	48.00	39.67	38.94	37.95	36.41	34.59
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	32.60	30.97	29.43	27.44	25.54	23.82	22.19	20.01	18.57
15.0	32.12	30.49	28.94	26.86	25.22	23.59	22.05	20.51	18.51
30.0	31.27	29.55	28.00	26.45	24.91	23.18	21.27	20.27	19.18
45.0	30.20	28.84	27.38	25.74	24.29	22.92	20.83	19.65	19.19
60.0	29.22	27.76	26.49	24.67	22.75	21.94	19.57	18.48	18.84
75.0	29.23	27.59	26.04	24.40	22.67	21.22	19.21	18.21	18.58
90.0	29.43	27.97	26.33	24.97	23.60	22.05	19.41	18.04	17.86
105.0	29.93	28.38	26.64	25.18	23.72	22.08	20.35	18.07	17.52
120.0	30.47	28.65	27.19	25.45	23.63	21.99	20.34	18.15	17.42
135.0	30.66	29.02	27.28	25.37	23.54	21.81	20.35	18.71	17.52
150.0	30.14	28.68	27.13	25.48	23.47	21.92	20.37	18.91	18.36
165.0	29.80	28.25	26.88	25.23	23.95	22.40	19.93	18.93	18.29
180.0	27.35	25.63	23.46	21.64	20.20	18.11	17.21	18.38	19.02
195.0	27.58	25.95	23.77	22.05	20.42	19.69	17.69	18.42	18.78
210.0	28.27	26.27	24.45	23.00	21.18	19.82	18.73	18.55	18.64
225.0	28.93	26.93	24.92	23.01	21.56	20.29	19.01	18.47	17.74
240.0	29.49	27.31	25.12	23.39	21.75	20.48	18.93	17.57	17.75
255.0	29.78	27.59	25.32	23.68	21.86	20.67	18.49	17.58	18.76
270.0	29.25	27.43	25.60	23.78	22.05	20.32	18.41	17.77	18.68
285.0	28.56	27.37	25.55	24.09	22.17	19.53	18.43	18.43	18.71
300.0	28.74	27.09	25.09	23.72	21.89	19.43	18.34	18.70	18.52
315.0	29.11	27.01	25.00	23.18	21.53	19.53	18.52	18.34	18.34
330.0	29.50	27.68	25.67	23.93	22.19	20.28	18.63	18.08	18.08
345.0	29.53	27.61	25.60	23.86	21.94	20.39	19.11	17.74	17.37
360.0	32.60	30.97	29.43	27.44	25.54	23.82	22.19	20.01	18.57

Intensity data(cd)

C/ γ (°)	180.0
0.0	18.93
15.0	18.24
30.0	18.18
45.0	19.10
60.0	19.11
75.0	18.85
90.0	18.77
105.0	18.61
120.0	18.43
135.0	17.70
150.0	17.81
165.0	18.74
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	18.93