
乐达凯

Client:

LumCAT: CADP24L30UDSN

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.060

LampCAT:

Current(A): 0.199

Lamp flux(lm): 1638.7

Power (W): 23.610

Number of Lamps: 1

PF: 0.990

Length(mm): 600

Width(mm): 60

Phm Type: C

Height(mm): 60

Photometric Results

Lumens(lm): 1638.67, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 69.41

Central intensity(cd): 182.304, Maximum intensity(cd): 182.346

Angle of maximum intensity: C=0.0 γ =10.0

Beam Angle(50%Imax): [C0/180]Total=353.0

[C90/270]Total=355.2

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.52 C90_270=1.26

Maximum s/h(1/4): C0_180=1.73 C90_270=1.38

Up flux rate of lamp(%): 47.15%

Down flux rate of lamp(%): 52.85%

Up flux rate of LUM(%): 47.15%

Down flux rate of LUM(%): 52.85%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 30.176%

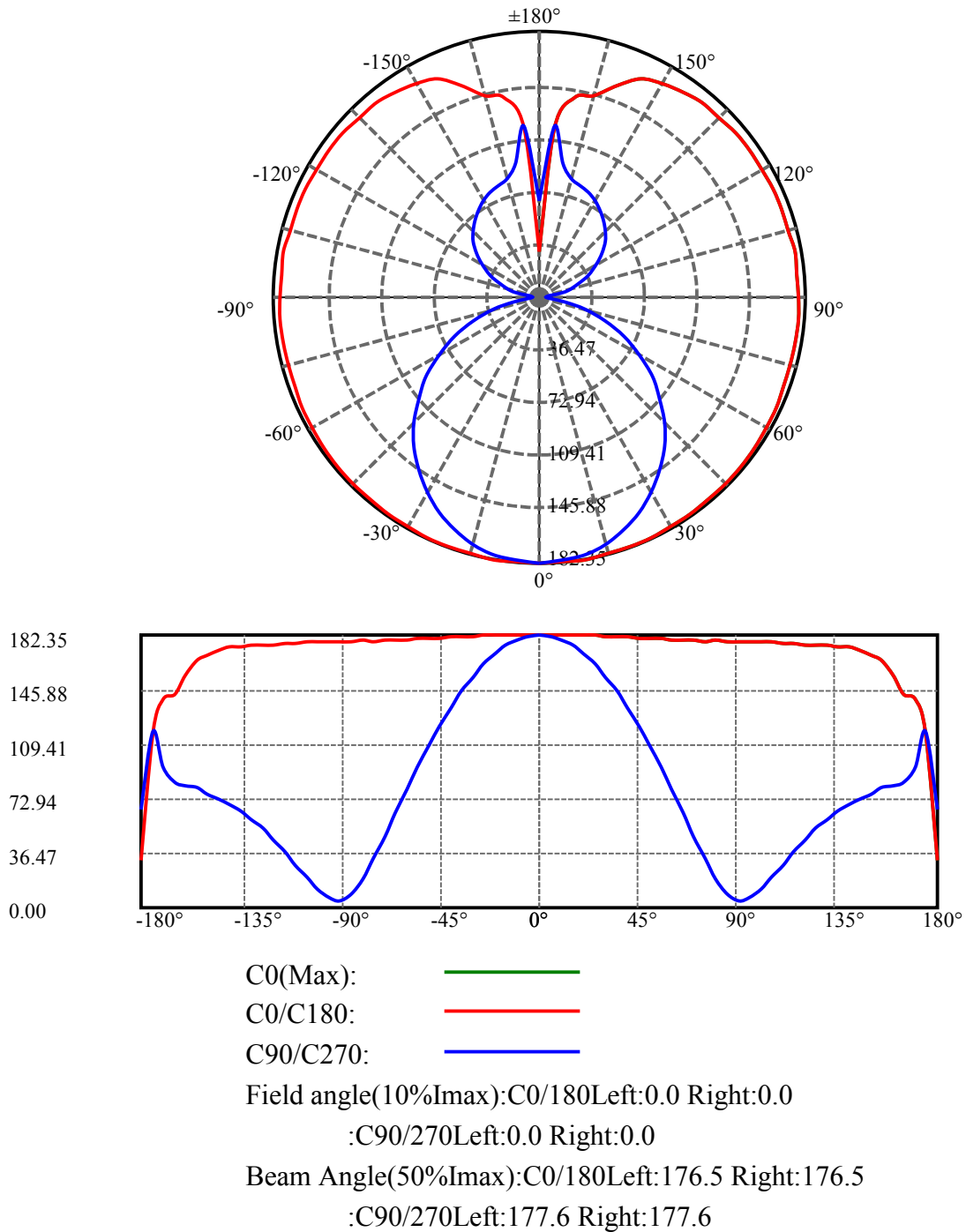
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	182.304	0.000	0	0.00%	0.00%
5.0	181.918	4.354	4.354	0.27%	0.27%
10.0	180.767	12.974	17.329	0.79%	1.06%
15.0	178.727	21.325	38.654	1.30%	2.36%
20.0	176.028	29.237	67.89	1.78%	4.14%
25.0	172.562	36.561	104.451	2.23%	6.37%
30.0	168.485	43.160	147.611	2.63%	9.01%
35.0	163.619	48.905	196.515	2.98%	11.99%
40.0	158.414	53.729	250.244	3.28%	15.27%
45.0	152.873	57.637	307.881	3.52%	18.79%
50.0	146.745	60.542	368.423	3.69%	22.48%
55.0	140.630	62.485	430.908	3.81%	26.30%
60.0	134.413	63.575	494.483	3.88%	30.18%
65.0	128.062	63.808	558.291	3.89%	34.07%
70.0	122.197	63.367	621.658	3.87%	37.94%
75.0	117.210	62.577	684.235	3.82%	41.76%
80.0	112.765	61.535	745.77	3.76%	45.51%
85.0	109.834	60.486	806.256	3.69%	49.20%
90.0	108.771	59.856	866.112	3.65%	52.85%
95.0	109.398	59.736	925.848	3.65%	56.50%
100.0	111.360	59.985	985.833	3.66%	60.16%
105.0	114.062	60.316	1046.15	3.68%	63.84%
110.0	117.691	60.577	1106.726	3.70%	67.54%
115.0	121.749	60.628	1167.354	3.70%	71.24%
120.0	125.779	60.174	1227.529	3.67%	74.91%
125.0	129.770	59.069	1286.598	3.60%	78.51%
130.0	132.648	57.058	1343.656	3.48%	82.00%
135.0	134.190	53.919	1397.575	3.29%	85.29%
140.0	135.016	49.846	1447.421	3.04%	88.33%
145.0	135.122	45.071	1492.491	2.75%	91.08%
150.0	134.624	39.722	1532.213	2.42%	93.50%
155.0	133.297	33.906	1566.119	2.07%	95.57%
160.0	128.964	27.506	1593.625	1.68%	97.25%
165.0	121.659	20.655	1614.28	1.26%	98.51%
170.0	115.329	14.058	1628.338	0.86%	99.37%
175.0	115.389	8.254	1636.591	0.50%	99.87%
180.0	58.609	2.080	1638.672	0.13%	100.00%

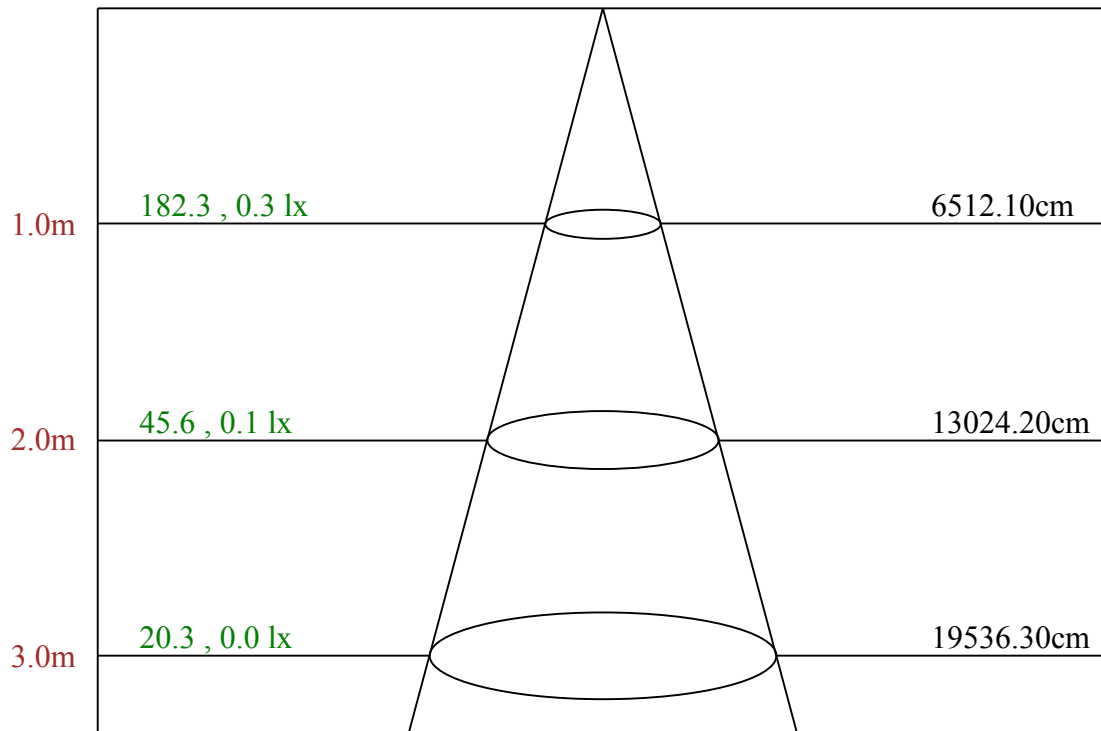
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	147.61	9.01%	9.01%
0-40	250.24	15.27%	15.27%
0-60	494.48	30.18%	30.18%
0-90	866.11	52.85%	52.85%
0-120	1227.53	74.91%	74.91%
0-180	1638.67	100.00%	100.00%
60-90	371.63	22.68%	22.68%
90-120	361.42	22.06%	22.06%
90-130	477.54	29.14%	29.14%
90-150	666.10	40.65%	40.65%
90-180	770.48	47.02%	47.02%
0-127.13	1310.94	80.00%	80.00%

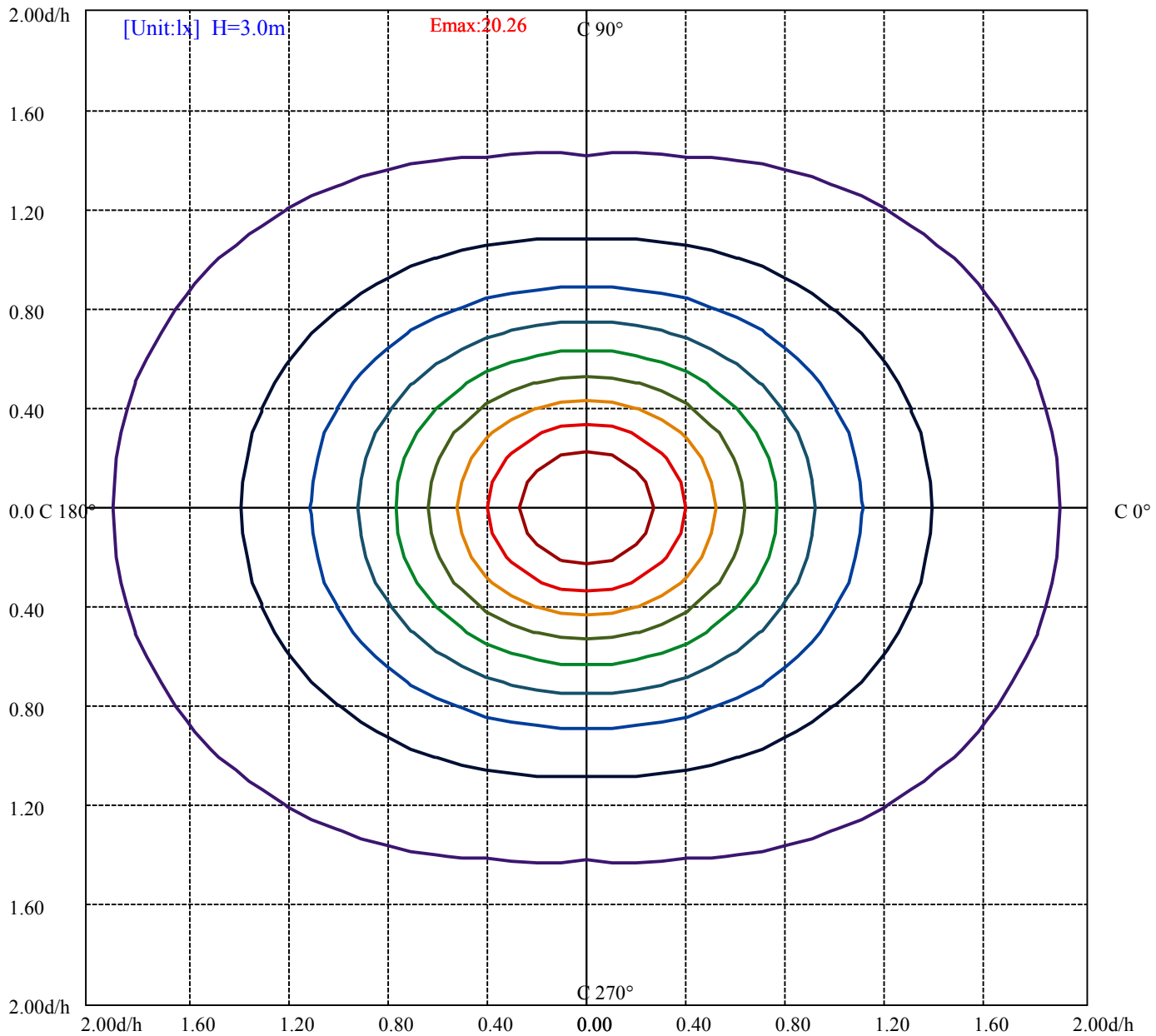
ZONAL LUMEN SUMMARY

0-10	17.33
10-20	50.56
20-30	79.72
30-40	102.63
40-50	118.18
50-60	126.06
60-70	127.18
70-80	124.11
80-90	120.34
90-100	119.72
100-110	120.89
110-120	120.80
120-130	116.13
130-140	103.76
140-150	84.79
150-160	61.41
160-170	34.71
170-180	8.25

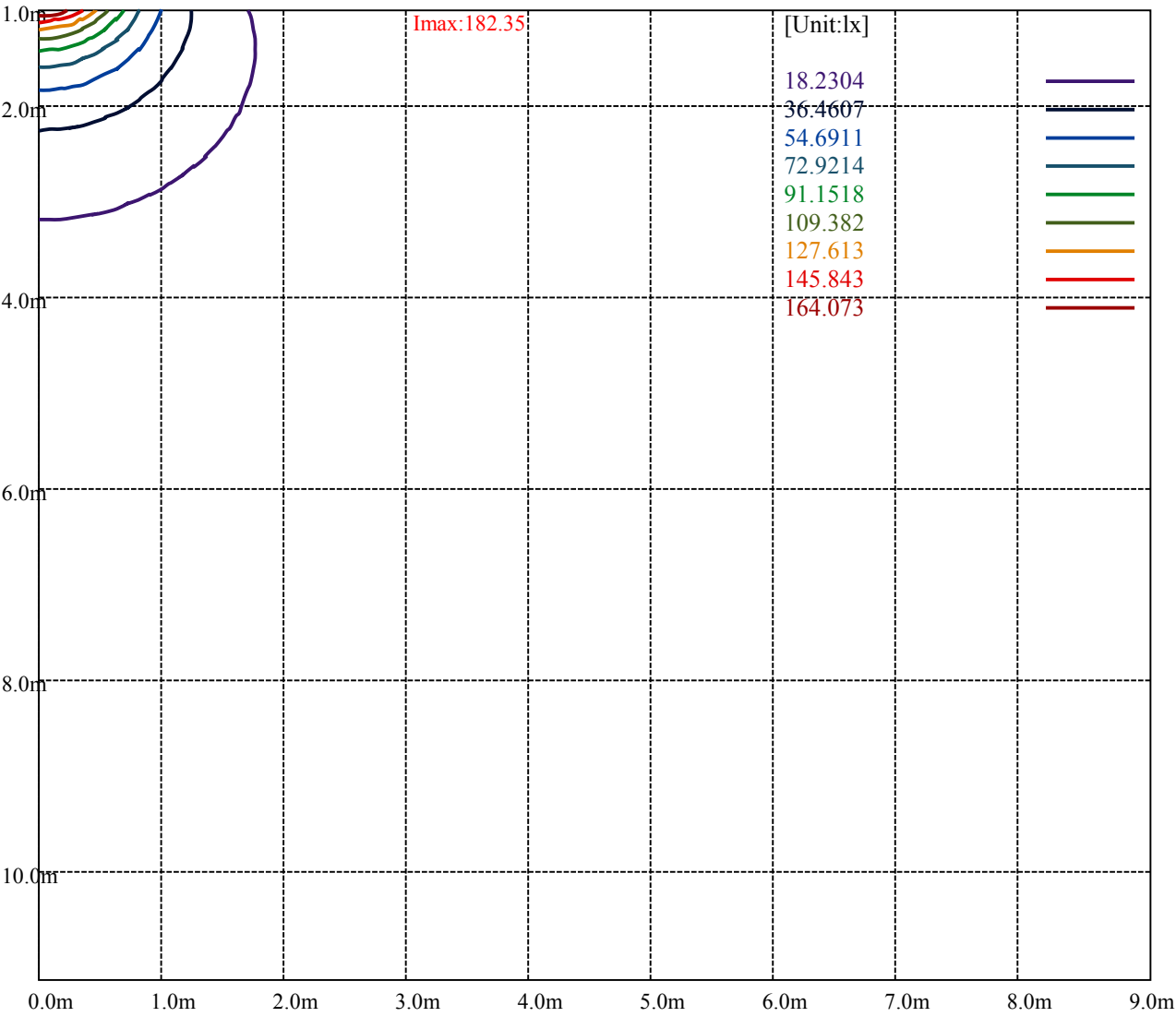




Max , Ave Beam angle of C0 plane 176.48



(10%Emax) 2.0256	—
(20%Emax) 4.051189	—
(30%Emax) 6.076789	—
(40%Emax) 8.102378	—
(50%Emax) 10.12798	—
(60%Emax) 12.15356	—
(70%Emax) 14.17911	—
(80%Emax) 16.20478	—
(90%Emax) 18.23033	—



Luminance Table

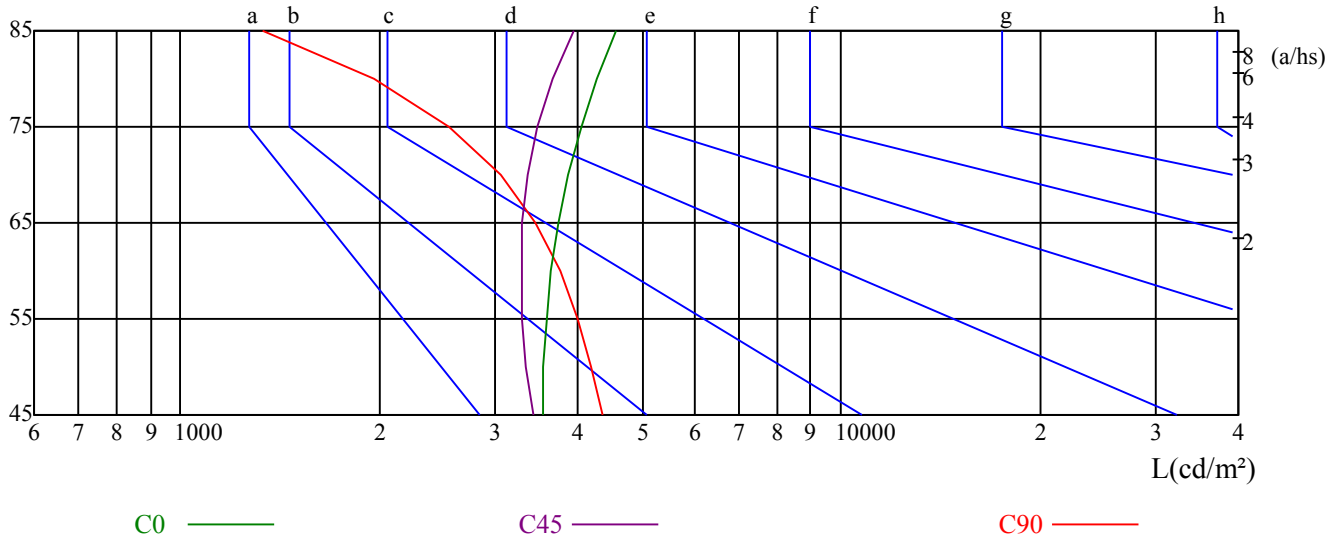
γ	45	50	55	60	65	70	75	80	85
C0	3547	3551	3586	3643	3740	3867	4043	4278	4566
C45	3421	3340	3295	3278	3295	3357	3476	3661	3939
C90	4345	4179	4000	3759	3447	3049	2558	1959	1329

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11760	4186	8792	19129	3513	13568	56752	2847	38962

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

 $\gamma(^{\circ})$ 

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	1.08	1.08	1.08	1.00	1.00	1.00	0.85	0.85	0.85	0.71	0.71	0.71	0.59	0.59	0.59	0.53
1	0.89	0.84	0.79	0.82	0.78	0.74	0.69	0.66	0.63	0.57	0.55	0.52	0.46	0.45	0.43	0.37
2	0.76	0.69	0.62	0.70	0.63	0.58	0.59	0.54	0.49	0.49	0.45	0.41	0.39	0.36	0.34	0.29
3	0.66	0.57	0.50	0.61	0.53	0.47	0.51	0.45	0.40	0.42	0.37	0.34	0.34	0.30	0.27	0.23
4	0.58	0.49	0.42	0.53	0.45	0.39	0.45	0.38	0.33	0.37	0.32	0.28	0.30	0.26	0.23	0.19
5	0.51	0.42	0.35	0.47	0.39	0.33	0.40	0.33	0.28	0.33	0.28	0.24	0.26	0.22	0.19	0.16
6	0.46	0.37	0.30	0.42	0.34	0.28	0.36	0.29	0.24	0.29	0.24	0.20	0.24	0.20	0.17	0.14
7	0.41	0.32	0.26	0.38	0.30	0.25	0.32	0.26	0.21	0.27	0.22	0.18	0.22	0.18	0.15	0.12
8	0.37	0.29	0.23	0.34	0.27	0.21	0.29	0.23	0.19	0.24	0.19	0.16	0.20	0.16	0.13	0.10
9	0.34	0.26	0.20	0.31	0.24	0.19	0.27	0.21	0.16	0.22	0.17	0.14	0.18	0.14	0.12	0.09
10	0.31	0.23	0.18	0.29	0.22	0.17	0.24	0.19	0.15	0.21	0.16	0.13	0.17	0.13	0.10	0.08

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	182.30	182.05	182.47	182.05	182.22	182.22	182.13	181.96	181.70
15.0	182.30	182.22	182.30	182.13	182.04	181.61	181.26	180.65	179.79
30.0	182.30	182.66	182.48	181.60	180.63	179.58	177.91	175.63	173.43
45.0	182.30	182.75	182.30	180.89	178.68	175.50	172.14	167.90	163.13
60.0	182.30	182.92	181.60	179.48	175.95	171.63	165.90	159.37	152.23
75.0	182.30	182.75	181.33	178.42	174.27	168.35	161.65	153.08	143.90
90.0	182.30	182.30	181.15	177.97	173.46	167.35	160.01	151.08	140.91
105.0	182.30	182.66	181.24	178.42	174.18	168.71	161.91	153.70	144.34
120.0	182.30	182.57	181.77	179.30	176.12	171.79	166.49	160.22	153.16
135.0	182.30	182.48	181.77	180.54	178.25	175.42	171.98	167.66	163.25
150.0	182.30	182.22	181.86	181.34	180.46	179.05	177.03	174.92	172.72
165.0	182.30	182.22	181.95	181.87	181.52	180.91	180.12	179.24	178.11
180.0	182.30	182.22	182.22	182.05	182.13	181.62	181.28	180.42	179.82
195.0	182.30	181.96	181.70	180.83	180.22	179.44	178.05	176.84	175.97
210.0	182.30	181.51	180.72	179.05	177.56	174.92	172.46	169.48	166.67
225.0	182.30	181.33	179.74	176.91	173.38	169.23	164.54	159.24	153.94
240.0	182.30	181.07	178.25	174.72	169.69	163.69	156.81	148.97	140.50
255.0	182.30	180.71	177.45	172.86	166.85	159.61	150.87	141.08	130.22
270.0	182.30	180.18	177.17	172.13	165.85	157.89	148.78	138.34	126.67
285.0	182.30	180.71	177.71	173.21	167.38	160.14	151.93	142.31	131.81
300.0	182.30	181.07	178.51	175.06	170.38	164.73	158.46	151.12	143.53
315.0	182.30	181.60	179.66	177.45	174.01	170.66	166.34	161.93	157.17
330.0	182.30	181.78	180.90	179.84	178.26	176.59	175.27	172.11	170.09
345.0	182.30	182.13	182.13	181.34	181.17	180.82	180.29	179.59	178.90
360.0	182.30	182.05	182.47	182.05	182.22	182.22	182.13	181.96	181.70
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	181.62	181.19	180.93	180.16	179.99	179.48	179.39	179.56	179.14
15.0	179.18	178.40	177.62	176.84	175.54	174.75	173.89	173.63	172.93
30.0	171.06	168.33	165.96	163.15	160.87	158.58	156.74	155.16	154.01
45.0	158.18	152.88	147.22	141.74	136.53	131.67	127.78	124.69	122.21
60.0	144.20	135.38	126.21	117.21	108.13	98.87	91.20	84.93	80.17
75.0	133.48	121.92	109.65	96.49	82.72	69.48	56.94	44.94	36.02
90.0	129.41	116.58	103.23	88.28	73.42	57.14	41.48	26.45	13.18
105.0	134.19	122.80	110.97	97.91	85.37	72.83	61.00	49.97	41.49
120.0	145.38	137.17	128.43	119.59	110.85	102.63	95.21	89.03	84.53
135.0	158.40	153.11	147.91	142.88	137.94	133.44	129.30	125.68	123.56
150.0	169.73	167.36	164.99	162.17	159.89	157.60	155.76	154.35	153.12
165.0	177.50	176.19	175.31	174.18	173.39	172.34	171.73	170.85	170.51
180.0	179.56	178.97	178.62	178.11	177.85	177.43	177.08	177.25	177.00
195.0	174.84	173.63	172.93	171.98	171.28	170.68	170.07	169.90	169.55
210.0	163.77	161.04	158.49	156.21	154.19	152.43	151.20	150.24	149.62
225.0	148.28	142.80	137.15	131.85	126.81	123.10	120.27	118.15	117.00
240.0	131.59	122.33	113.07	103.90	95.16	87.58	81.58	77.00	74.97
255.0	118.48	106.38	93.14	79.90	66.39	53.85	42.46	33.99	29.57
270.0	113.93	99.86	85.53	70.50	53.96	38.57	23.97	11.94	4.69
285.0	120.15	108.41	96.40	83.43	71.16	59.59	53.50	41.67	38.14
300.0	135.23	126.84	118.27	113.41	101.84	95.30	89.83	86.47	84.79
315.0	154.43	146.94	142.26	137.59	133.80	130.53	128.33	126.92	126.21
330.0	167.80	165.69	163.58	161.74	160.15	158.83	158.22	157.78	157.43
345.0	178.55	177.67	177.23	176.71	176.27	176.01	176.10	175.84	176.19
360.0	181.62	181.19	180.93	180.16	179.99	179.48	179.39	179.56	179.14

乐达凯 CADP24L30UDSN

Intensity data(cd)										Appendix Page: 11 Total:12	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	179.39	179.05	178.97	178.45	177.85	177.51	176.83	176.40	175.80		
15.0	173.02	172.76	172.85	172.41	171.98	172.06	171.63	171.72	171.20		
30.0	153.40	153.22	153.14	153.31	153.84	155.07	156.12	157.44	158.41		
45.0	120.80	120.80	121.06	122.30	124.60	127.60	131.14	134.94	138.91		
60.0	77.70	77.53	79.38	82.82	87.84	94.02	101.25	108.48	115.80		
75.0	30.72	30.55	34.43	41.32	49.79	59.68	69.65	80.25	88.81		
90.0	4.78	3.89	8.58	15.30	23.17	31.22	40.07	49.00	55.90		
105.0	36.64	35.84	39.20	45.38	53.50	62.42	70.71	79.72	84.40		
120.0	81.88	81.44	82.67	85.68	90.00	95.66	102.10	108.38	114.38		
135.0	122.24	121.62	121.98	122.95	124.62	127.44	130.62	134.32	137.85		
150.0	152.51	151.98	151.71	151.80	152.15	153.21	154.09	155.49	156.90		
165.0	170.24	169.72	169.37	169.02	168.67	168.84	168.67	168.76	169.02		
180.0	176.74	176.31	176.14	176.06	175.46	175.20	174.94	174.77	174.60		
195.0	169.64	169.29	169.55	169.46	169.37	169.90	170.50	171.28	171.89		
210.0	149.71	149.88	150.59	151.47	152.61	154.72	156.39	158.06	159.11		
225.0	117.09	117.88	119.56	122.12	125.48	129.19	133.08	136.97	139.89		
240.0	74.97	77.17	80.88	86.26	92.43	98.96	102.57	108.22	112.10		
255.0	29.93	33.81	40.52	44.94	56.59	65.42	74.69	79.37	77.07		
270.0	3.98	10.26	17.07	24.94	33.52	42.46	51.04	57.05	61.65		
285.0	38.76	42.91	49.70	58.18	68.24	77.95	87.93	97.73	103.29		
300.0	85.32	87.18	90.80	96.01	101.93	108.20	115.53	122.24	129.40		
315.0	126.65	127.53	129.12	131.59	134.32	137.59	141.03	145.00	148.08		
330.0	158.04	158.39	158.83	159.63	160.50	161.65	162.61	163.67	164.64		
345.0	176.36	176.54	176.54	176.10	176.10	176.01	175.49	175.22	174.44		
360.0	179.39	179.05	178.97	178.45	177.85	177.51	176.83	176.40	175.80		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	174.86	174.17	173.06	172.46	171.52	170.49	166.64	157.57	145.24		
15.0	170.85	170.50	169.90	169.64	169.20	168.33	164.26	156.36	145.43		
30.0	159.29	160.95	162.18	163.33	164.29	163.06	159.02	152.78	145.40		
45.0	142.63	146.43	150.14	153.67	154.82	152.52	149.87	147.22	141.39		
60.0	122.86	129.12	134.15	135.03	134.94	136.00	137.68	136.62	130.71		
75.0	92.43	94.82	99.14	104.53	110.79	116.71	110.88	104.17	114.50		
90.0	61.65	66.96	71.74	75.89	80.14	84.12	86.42	88.37	111.28		
105.0	80.60	77.87	82.63	91.11	99.05	101.97	89.17	83.43	105.85		
120.0	116.94	119.33	116.77	113.59	114.56	116.94	102.90	81.26	95.04		
135.0	140.32	140.32	142.17	140.06	134.15	125.24	115.71	86.35	81.76		
150.0	158.31	158.31	156.11	154.62	150.22	139.76	123.24	106.53	71.37		
165.0	169.37	169.28	166.92	162.99	159.67	149.97	126.20	119.38	85.03		
180.0	174.69	173.74	170.83	165.19	159.79	138.82	119.48	120.51	86.96		
195.0	171.63	169.29	166.25	162.78	152.98	129.46	118.70	106.38	65.42		
210.0	159.81	157.53	154.98	153.84	132.40	113.16	106.22	69.67	89.09		
225.0	140.06	140.86	137.24	119.56	102.07	99.41	78.29	74.32	107.28		
240.0	111.30	102.84	88.64	81.49	85.64	81.94	75.50	85.82	116.77		
255.0	74.16	73.10	73.27	75.57	82.90	76.45	77.51	93.76	122.62		
270.0	66.52	70.85	74.30	76.60	79.61	79.96	81.02	98.63	125.07		
285.0	106.47	108.94	111.85	116.36	120.68	120.15	115.92	114.15	125.27		
300.0	135.14	141.06	144.06	143.35	142.56	142.38	143.00	139.02	134.17		
315.0	151.35	154.43	156.90	159.55	157.96	154.87	150.91	145.35	140.06		
330.0	165.25	166.22	166.75	167.36	167.54	164.11	158.66	149.34	142.49		
345.0	174.09	173.48	172.95	172.43	171.64	169.28	162.64	150.93	141.14		
360.0	174.86	174.17	173.06	172.46	171.52	170.49	166.64	157.57	145.24		

Intensity data(cd)

C/ γ (°)	180.0
0.0	63.25
15.0	115.75
30.0	130.56
45.0	134.41
60.0	132.47
75.0	131.72
90.0	131.53
105.0	130.22
120.0	127.19
135.0	120.92
150.0	108.56
165.0	80.05
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	63.25