
乐达凯

Client:

LumCAT: AVRW0717LAJUDBK-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25090316

Voltage(V): 120.060

LampCAT:

Current(A): 0.171

Lamp flux(lm): 1036.0

Power (W): 20.370

Number of Lamps: 1

PF: 0.991

Length(mm): -60

Width(mm): -60

Phm Type: C

Height(mm): 285

Photometric Results

Lumens(lm): 1035.99, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 50.86

Central intensity(cd): 17.046, Maximum intensity(cd): 166.024

Angle of maximum intensity: C=0.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=290.0

[C90/270]Total=117.2

Field angle(10%Imax): [C0/180]Total=332.2

[C90/270]Total=221.1

Maximum s/h(1/2): C0_180=4.90 C90_270=4.04

Maximum s/h(1/4): C0_180=4.60 C90_270=3.84

Up flux rate of lamp(%): 47.63%

Down flux rate of lamp(%): 52.37%

Up flux rate of LUM(%): 47.63%

Down flux rate of LUM(%): 52.37%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.687%

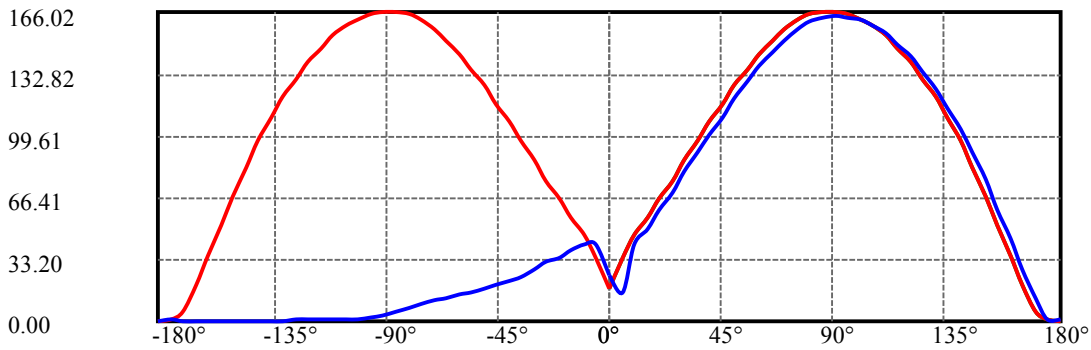
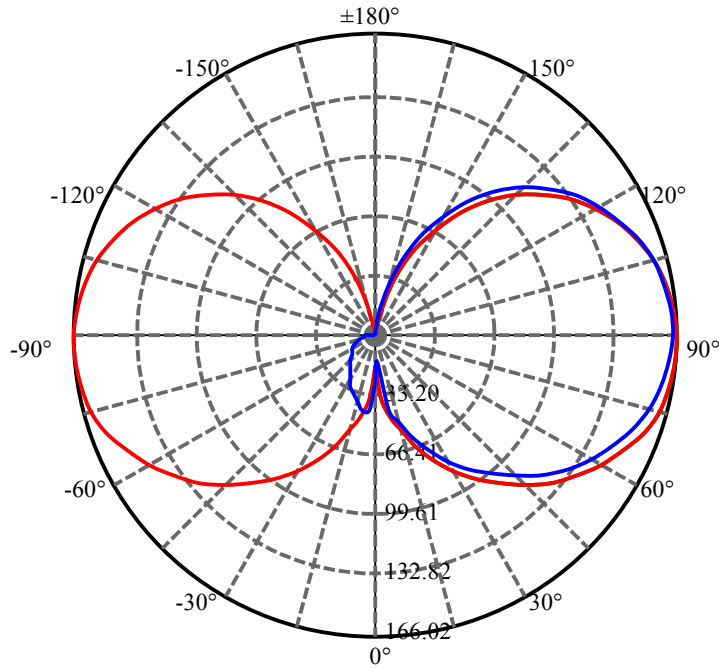
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	21.323	0.000	0	0.00%	0.00%
5.0	30.598	0.621	0.621	0.06%	0.06%
10.0	44.182	2.675	3.296	0.26%	0.32%
15.0	47.775	5.455	8.751	0.53%	0.84%
20.0	52.612	8.273	17.024	0.80%	1.64%
25.0	57.203	11.518	28.542	1.11%	2.76%
30.0	62.238	15.115	43.657	1.46%	4.21%
35.0	67.244	19.067	62.724	1.84%	6.05%
40.0	72.421	23.302	86.026	2.25%	8.30%
45.0	77.449	27.750	113.776	2.68%	10.98%
50.0	82.634	32.347	146.123	3.12%	14.10%
55.0	87.572	37.009	183.132	3.57%	17.68%
60.0	92.144	41.541	224.673	4.01%	21.69%
65.0	96.260	45.801	270.474	4.42%	26.11%
70.0	99.912	49.672	320.146	4.79%	30.90%
75.0	102.559	52.923	373.069	5.11%	36.01%
80.0	104.245	55.335	428.404	5.34%	41.35%
85.0	104.765	56.793	485.197	5.48%	46.83%
90.0	104.593	57.324	542.521	5.53%	52.37%
95.0	103.782	57.055	599.575	5.51%	57.87%
100.0	102.357	56.013	655.588	5.41%	63.28%
105.0	100.099	54.172	709.76	5.23%	68.51%
110.0	96.993	51.517	761.277	4.97%	73.48%
115.0	93.124	48.139	809.416	4.65%	78.13%
120.0	88.503	44.154	853.569	4.26%	82.39%
125.0	83.120	39.670	893.24	3.83%	86.22%
130.0	77.090	34.835	928.075	3.36%	89.58%
135.0	70.122	29.746	957.821	2.87%	92.45%
140.0	62.492	24.555	982.376	2.37%	94.82%
145.0	53.218	19.305	1001.681	1.86%	96.69%
150.0	43.513	14.244	1015.926	1.37%	98.06%
155.0	33.491	9.745	1025.671	0.94%	99.00%
160.0	23.783	6.007	1031.678	0.58%	99.58%
165.0	13.170	3.045	1034.723	0.29%	99.88%
170.0	4.695	1.060	1035.783	0.10%	99.98%
175.0	0.759	0.195	1035.978	0.02%	100.00%
180.0	0.314	0.013	1035.991	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	43.66	4.21%	4.21%
0-40	86.03	8.30%	8.30%
0-60	224.67	21.69%	21.69%
0-90	542.52	52.37%	52.37%
0-120	853.57	82.39%	82.39%
0-180	1035.99	100.00%	100.00%
60-90	317.85	30.68%	30.68%
90-120	311.05	30.02%	30.02%
90-130	385.55	37.22%	37.22%
90-150	473.40	45.70%	45.70%
90-180	493.46	47.63%	47.63%
0-117.19	828.79	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	3.30
10-20	13.73
20-30	26.63
30-40	42.37
40-50	60.10
50-60	78.55
60-70	95.47
70-80	108.26
80-90	114.12
90-100	113.07
100-110	105.69
110-120	92.29
120-130	74.51
130-140	54.30
140-150	33.55
150-160	15.75
160-170	4.11
170-180	0.20



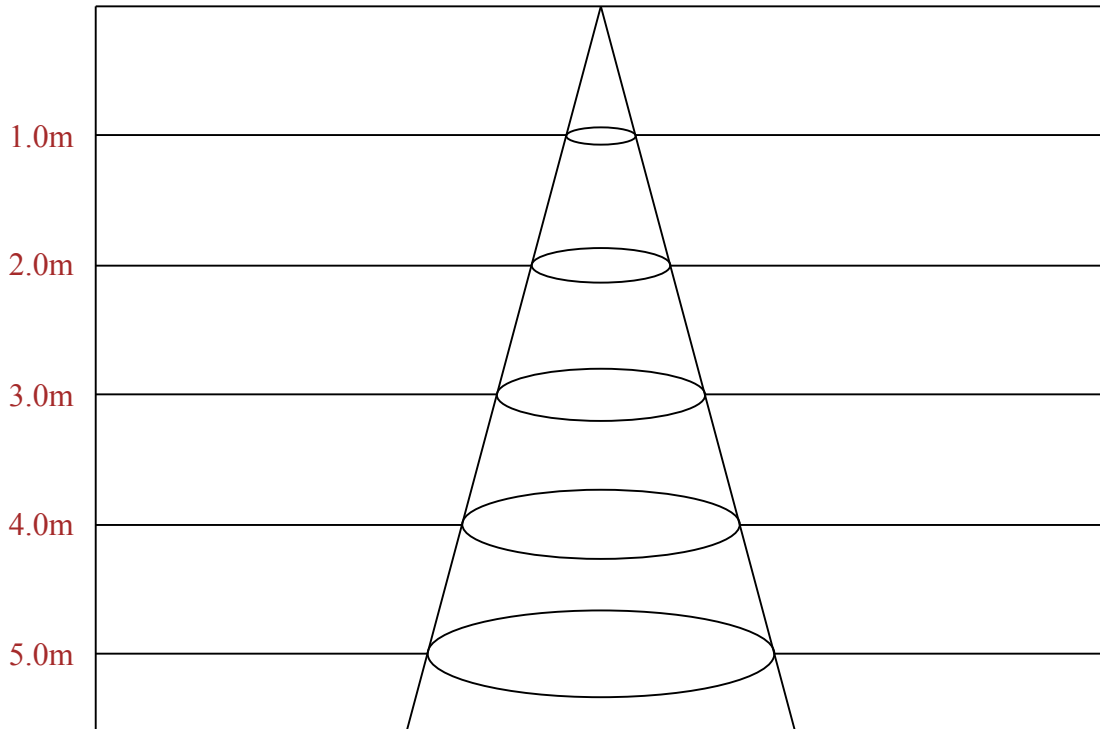
C0(Max): —————

C0/C180: —————

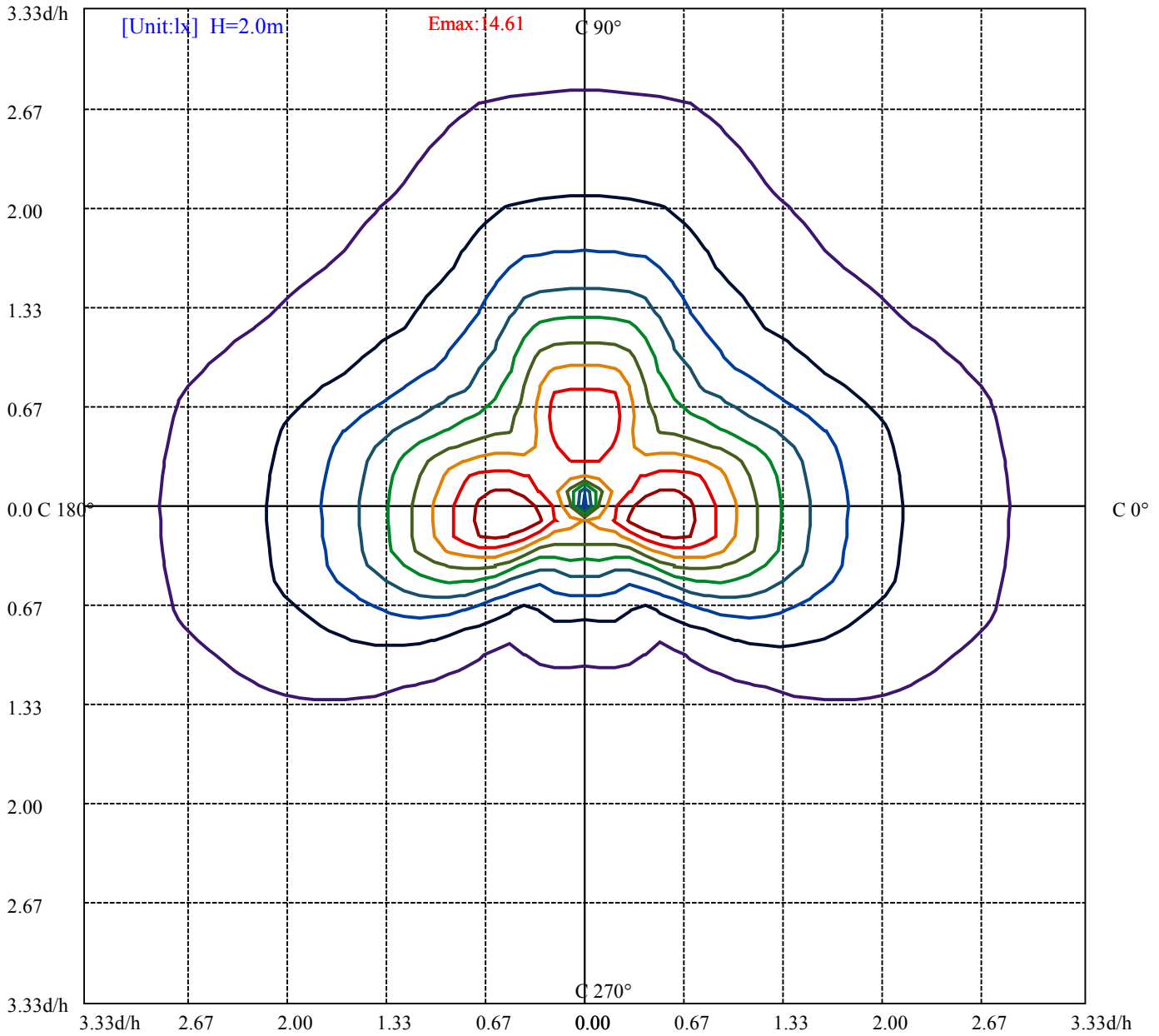
C90/C270: —————

Field angle(10%Imax):C0/180Left:256.1 Right:76.1
:C90/270Left:142.3 Right:78.8

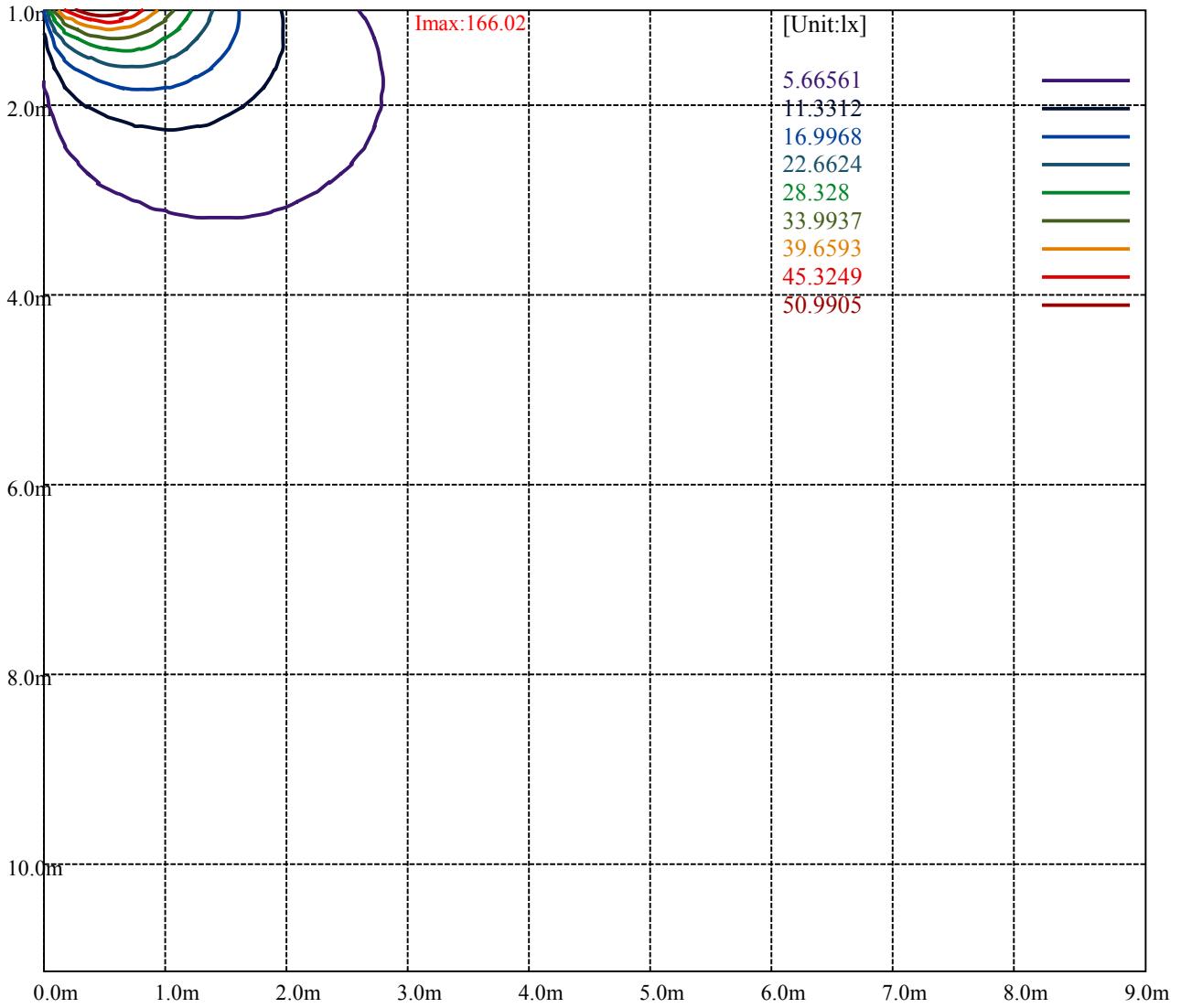
Beam Angle(50%Imax):C0/180Left:235.0 Right:55.0
:C90/270Left:59.2 Right:58.0



Max , Ave Beam angle of C0 plane 331.65



- (10%Emax) 1.460868
- (20%Emax) 2.921725
- (30%Emax) 4.3826
- (40%Emax) 5.843475
- (50%Emax) 7.304325
- (60%Emax) 8.7652
- (70%Emax) 10.22608
- (80%Emax) 11.68695
- (90%Emax) 13.1478



Luminance Table

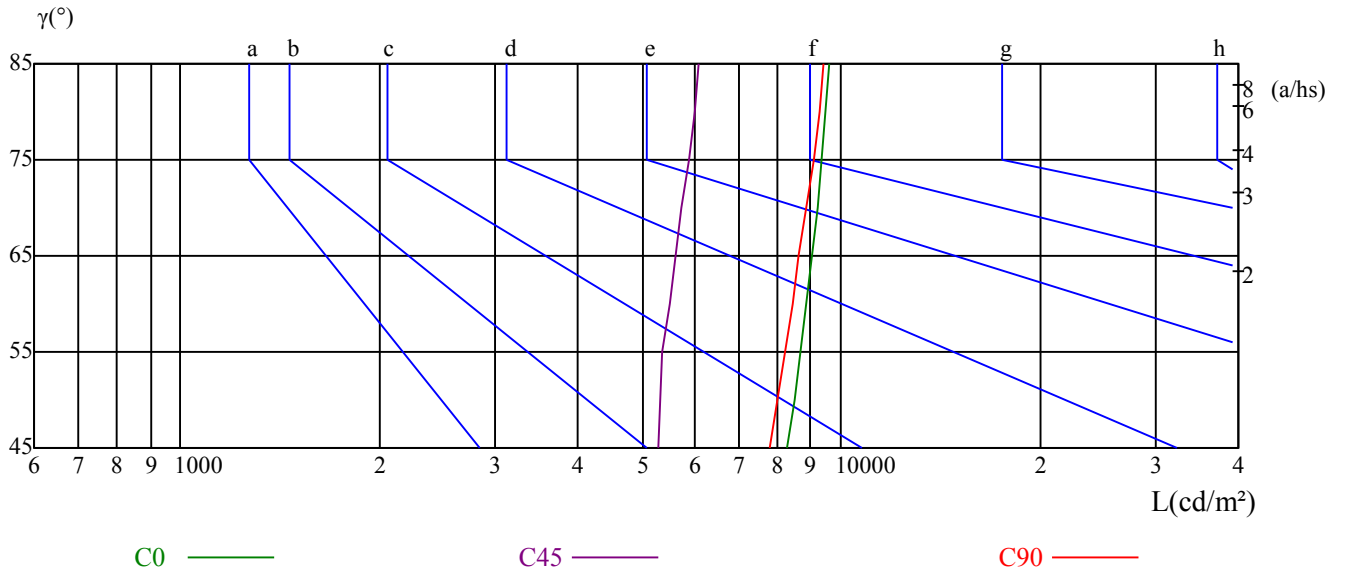
γ	45	50	55	60	65	70	75	80	85
C0	8306	8490	8668	8838	9043	9224	9381	9499	9604
C45	5304	5317	5370	5500	5622	5743	5880	5992	6082
C90	7781	7999	8220	8428	8626	8863	9092	9261	9418

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
126327	65510	59109	221110	113344	102525	673541	340411	310466

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



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	1.08	1.08	1.08	1.00	1.00	1.00	0.85	0.85	0.85	0.71	0.71	0.71	0.58	0.58	0.58	0.52
1	0.86	0.80	0.75	0.79	0.74	0.69	0.66	0.62	0.58	0.54	0.51	0.48	0.43	0.40	0.38	0.33
2	0.72	0.64	0.57	0.66	0.59	0.52	0.55	0.49	0.44	0.44	0.40	0.36	0.34	0.31	0.28	0.23
3	0.62	0.52	0.45	0.56	0.48	0.41	0.46	0.40	0.34	0.37	0.32	0.28	0.29	0.25	0.22	0.17
4	0.53	0.44	0.36	0.49	0.40	0.33	0.40	0.33	0.28	0.32	0.27	0.22	0.25	0.21	0.17	0.13
5	0.47	0.37	0.30	0.43	0.34	0.28	0.35	0.28	0.23	0.28	0.23	0.19	0.22	0.18	0.14	0.11
6	0.42	0.32	0.25	0.38	0.30	0.23	0.31	0.25	0.19	0.25	0.20	0.16	0.19	0.15	0.12	0.09
7	0.37	0.28	0.22	0.34	0.26	0.20	0.28	0.22	0.17	0.23	0.17	0.13	0.18	0.13	0.10	0.07
8	0.33	0.25	0.19	0.31	0.23	0.17	0.25	0.19	0.14	0.21	0.15	0.12	0.16	0.12	0.09	0.06
9	0.30	0.22	0.16	0.28	0.20	0.15	0.23	0.17	0.13	0.19	0.14	0.10	0.15	0.11	0.08	0.05
10	0.28	0.20	0.14	0.25	0.18	0.13	0.21	0.15	0.11	0.17	0.12	0.09	0.13	0.10	0.07	0.05

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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	17.05	26.38	43.51	51.77	61.82	71.60	81.91	92.14	100.66
15.0	17.67	24.22	43.06	51.05	61.10	71.42	81.82	92.23	100.66
30.0	20.72	23.06	43.78	50.15	56.97	63.97	69.98	76.53	82.18
45.0	22.97	22.25	45.22	47.37	51.14	55.45	59.84	64.51	69.98
60.0	23.15	19.11	45.22	48.27	53.11	57.96	62.98	68.37	74.47
75.0	23.33	18.03	42.98	50.33	59.66	69.98	80.12	90.79	100.57
90.0	25.03	15.16	41.72	49.61	59.84	69.44	80.03	90.26	99.86
105.0	24.94	12.83	41.72	49.08	59.12	69.26	79.40	90.17	100.22
120.0	26.11	12.92	42.53	48.63	54.73	60.74	66.39	73.03	79.85
135.0	5.47	13.55	43.06	45.49	49.17	53.74	57.96	62.71	68.28
150.0	25.30	14.35	42.35	46.56	56.52	58.14	64.15	70.16	77.07
165.0	24.13	14.62	40.73	46.92	56.52	66.75	77.16	88.73	100.48
180.0	17.05	42.71	49.35	58.68	69.35	79.94	91.42	102.55	113.13
195.0	17.67	43.60	48.99	58.41	68.72	79.58	90.97	101.83	112.96
210.0	20.72	45.49	47.19	51.23	55.54	60.74	66.75	73.30	79.58
225.0	22.97	44.95	44.77	43.24	41.63	40.64	40.19	40.64	41.72
240.0	23.15	42.80	44.32	40.46	35.89	32.12	28.44	24.58	20.99
255.0	23.33	41.54	42.44	39.03	35.53	32.48	29.70	25.93	22.97
270.0	25.03	41.27	41.63	37.77	34.54	31.58	28.26	24.04	21.44
285.0	24.94	42.08	42.53	39.30	35.62	32.75	29.61	25.39	24.40
300.0	26.11	43.42	43.15	39.21	38.04	31.04	27.36	23.24	19.56
315.0	5.47	43.96	43.96	43.60	42.89	42.71	42.44	42.62	42.89
330.0	25.30	43.60	47.01	51.86	56.88	62.17	68.10	73.03	77.97
345.0	24.13	42.44	49.17	58.59	68.37	78.68	88.73	97.08	106.23
360.0	17.05	26.38	43.51	51.77	61.82	71.60	81.91	92.14	100.66
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	110.17	119.68	128.75	136.64	144.27	150.91	156.20	159.43	161.31
15.0	110.71	119.95	129.19	137.45	145.16	151.71	157.01	160.33	162.39
30.0	87.65	93.58	99.68	104.97	109.64	114.12	117.53	119.86	120.85
45.0	75.00	79.22	83.89	89.18	93.76	97.88	101.29	103.53	104.79
60.0	79.76	85.68	91.69	97.16	102.28	107.21	111.16	114.39	116.27
75.0	109.73	120.04	128.93	137.36	144.63	151.53	156.92	160.86	163.02
90.0	109.64	119.33	128.48	136.73	144.00	151.00	156.83	160.51	162.75
105.0	110.08	119.59	129.19	137.45	144.81	151.80	157.55	161.40	163.65
120.0	85.86	92.23	98.60	104.43	109.19	113.94	117.89	120.94	122.47
135.0	74.47	79.40	83.98	89.27	93.93	97.79	101.56	104.16	105.42
150.0	82.99	89.18	95.37	100.75	105.42	109.82	113.67	116.90	118.52
165.0	109.90	119.86	129.73	137.99	145.34	152.43	158.26	162.21	164.54
180.0	123.90	133.59	142.20	150.10	157.63	163.38	167.41	169.84	170.64
195.0	122.91	132.69	141.49	149.11	156.38	162.48	166.61	168.85	169.48
210.0	86.04	92.41	98.15	102.82	108.11	111.97	115.20	117.26	118.07
225.0	42.08	43.06	44.59	45.94	47.28	48.54	48.99	48.99	48.63
240.0	18.66	16.60	14.44	12.56	11.30	9.96	8.52	6.82	5.20
255.0	20.90	18.84	16.78	14.98	13.55	12.11	9.87	9.33	5.56
270.0	19.29	17.23	15.34	14.80	12.56	11.13	9.06	6.91	5.02
285.0	20.28	18.39	16.24	14.62	13.19	11.75	9.51	7.36	5.20
300.0	17.14	14.98	13.10	11.57	10.14	9.06	7.54	6.10	4.67
315.0	42.62	43.51	44.95	46.20	47.55	48.36	48.27	47.82	47.19
330.0	83.80	89.63	94.92	99.77	104.25	107.93	110.35	111.97	112.24
345.0	115.20	124.53	132.07	139.60	145.88	151.09	154.23	156.11	156.47
360.0	110.17	119.68	128.75	136.64	144.27	150.91	156.20	159.43	161.31

Equipment: LC-I-902 GMS-2000
Temperature(°C): 25.3

Date: 2025/12/13
Humidity(%): 62.3%

Operator: JUN WANG
Distance(m): 29.95

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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	161.67	161.13	159.25	155.93	151.26	145.43	138.44	130.27	121.12
15.0	162.93	162.39	160.51	157.19	152.70	146.87	139.69	131.17	121.84
30.0	120.94	120.22	118.52	115.74	112.15	107.57	102.10	96.09	88.91
45.0	105.06	104.88	103.71	101.65	99.05	95.37	90.97	86.04	80.48
60.0	117.08	117.17	116.36	114.66	111.88	108.29	103.71	98.33	92.14
75.0	163.74	163.38	161.76	158.71	154.41	148.75	141.84	133.95	125.16
90.0	163.47	163.11	161.49	158.53	154.23	148.48	141.84	133.77	124.62
105.0	164.45	164.18	162.57	159.61	155.12	149.83	143.01	135.03	125.87
120.0	123.00	122.56	121.39	119.24	116.01	111.70	106.67	100.75	94.02
135.0	106.05	105.78	104.79	102.82	100.30	96.72	92.50	87.56	81.82
150.0	118.88	118.79	117.62	115.38	112.24	108.11	103.36	97.61	91.33
165.0	165.35	165.08	163.56	160.51	156.11	150.46	143.55	135.47	126.32
180.0	170.37	168.67	165.44	161.22	155.12	147.95	139.42	129.82	119.77
195.0	169.12	167.50	164.27	159.61	153.60	146.87	137.90	128.93	118.07
210.0	117.98	116.90	114.93	112.06	108.02	103.18	97.34	90.88	83.53
225.0	48.00	47.28	46.47	45.49	43.96	42.35	41.63	37.41	34.63
240.0	3.86	2.69	2.60	2.24	2.06	1.97	1.79	1.53	1.26
255.0	3.68	2.42	1.97	1.79	1.53	1.44	1.17	0.99	0.81
270.0	3.14	1.88	1.35	1.26	1.08	0.81	0.72	0.54	0.18
285.0	3.41	2.15	1.70	1.61	1.35	1.17	0.99	0.81	0.54
300.0	3.32	2.24	1.97	1.97	1.70	1.53	1.35	1.17	0.99
315.0	46.47	45.31	44.59	43.15	41.54	39.48	37.14	34.63	31.58
330.0	112.06	110.80	108.65	105.51	101.83	96.99	91.33	84.96	78.23
345.0	156.20	154.23	151.09	146.51	140.59	133.68	125.61	117.17	106.94
360.0	161.67	161.13	159.25	155.93	151.26	145.43	138.44	130.27	121.12

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	111.61	99.59	86.94	72.04	56.43	40.64	25.57	9.60	0.81
15.0	110.71	98.51	84.25	68.72	52.75	38.13	22.88	8.70	0.90
30.0	80.84	72.04	60.74	49.97	38.40	26.65	15.34	5.65	0.99
45.0	73.39	64.96	55.54	45.67	35.26	25.03	14.09	4.31	0.90
60.0	85.05	76.62	66.84	55.27	44.32	32.30	20.72	8.16	0.90
75.0	114.39	103.18	89.72	74.56	58.77	43.60	27.45	12.02	1.08
90.0	114.48	103.09	90.79	75.81	60.11	44.23	28.35	12.74	1.44
105.0	115.92	103.71	90.88	75.63	60.38	42.80	27.01	11.57	1.17
120.0	86.31	77.61	67.20	56.34	44.41	32.21	19.74	8.52	0.90
135.0	75.18	66.93	57.60	47.64	37.14	26.74	15.79	5.47	0.90
150.0	84.07	75.54	65.40	54.28	43.24	31.40	18.75	7.36	0.90
165.0	116.45	104.34	91.33	76.08	60.20	43.69	27.45	11.21	0.99
180.0	107.12	94.38	78.86	62.53	45.94	29.16	13.64	1.26	0.63
195.0	105.87	91.78	76.26	60.83	44.23	40.19	12.02	0.90	0.63
210.0	75.54	72.40	54.46	42.44	31.31	19.47	7.09	0.54	0.63
225.0	30.59	26.74	22.25	17.58	12.65	7.81	2.69	0.63	0.54
240.0	1.17	1.08	0.99	0.99	0.90	0.81	0.63	0.54	0.54
255.0	0.63	0.54	0.54	0.54	0.54	0.54	0.54	0.45	0.54
270.0	0.00	0.09	0.09	0.09	0.18	0.27	0.45	0.45	0.54
285.0	0.36	0.27	0.27	0.18	0.18	0.27	0.36	0.45	0.45
300.0	0.81	0.81	0.72	0.72	0.63	0.54	0.45	0.45	0.45
315.0	27.72	23.60	19.29	14.89	10.50	5.65	1.44	0.54	0.45
330.0	69.35	59.93	48.81	38.49	27.45	15.97	5.20	0.54	0.45
345.0	95.37	82.09	67.47	53.02	37.86	22.70	8.43	0.63	0.54
360.0	111.61	99.59	86.94	72.04	56.43	40.64	25.57	9.60	0.81

Intensity data(cd)

C/γ(°)	180.0
0.0	0.63
15.0	0.63
30.0	0.63
45.0	0.63
60.0	0.63
75.0	0.63
90.0	0.63
105.0	0.63
120.0	0.63
135.0	0.63
150.0	0.63
165.0	0.63
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	0.63