
弗格斯莱

Client:

LumCAT: CLSP32LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.278

Lamp flux(lm): 2024.8

Power (W): 33.270

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2024.78, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 60.86

Central intensity(cd): 563.328, Maximum intensity(cd): 563.328

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=120.0

[C90/270]Total=121.6

Field angle(10%Imax): [C0/180]Total=204.8

[C90/270]Total=192.8

Maximum s/h(1/2): C0_180=1.27 C90_270=1.26

Maximum s/h(1/4): C0_180=1.40 C90_270=1.39

Up flux rate of lamp(%): 7.96%

Down flux rate of lamp(%): 92.04%

Up flux rate of LUM(%): 7.96%

Down flux rate of LUM(%): 92.04%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 64.320%

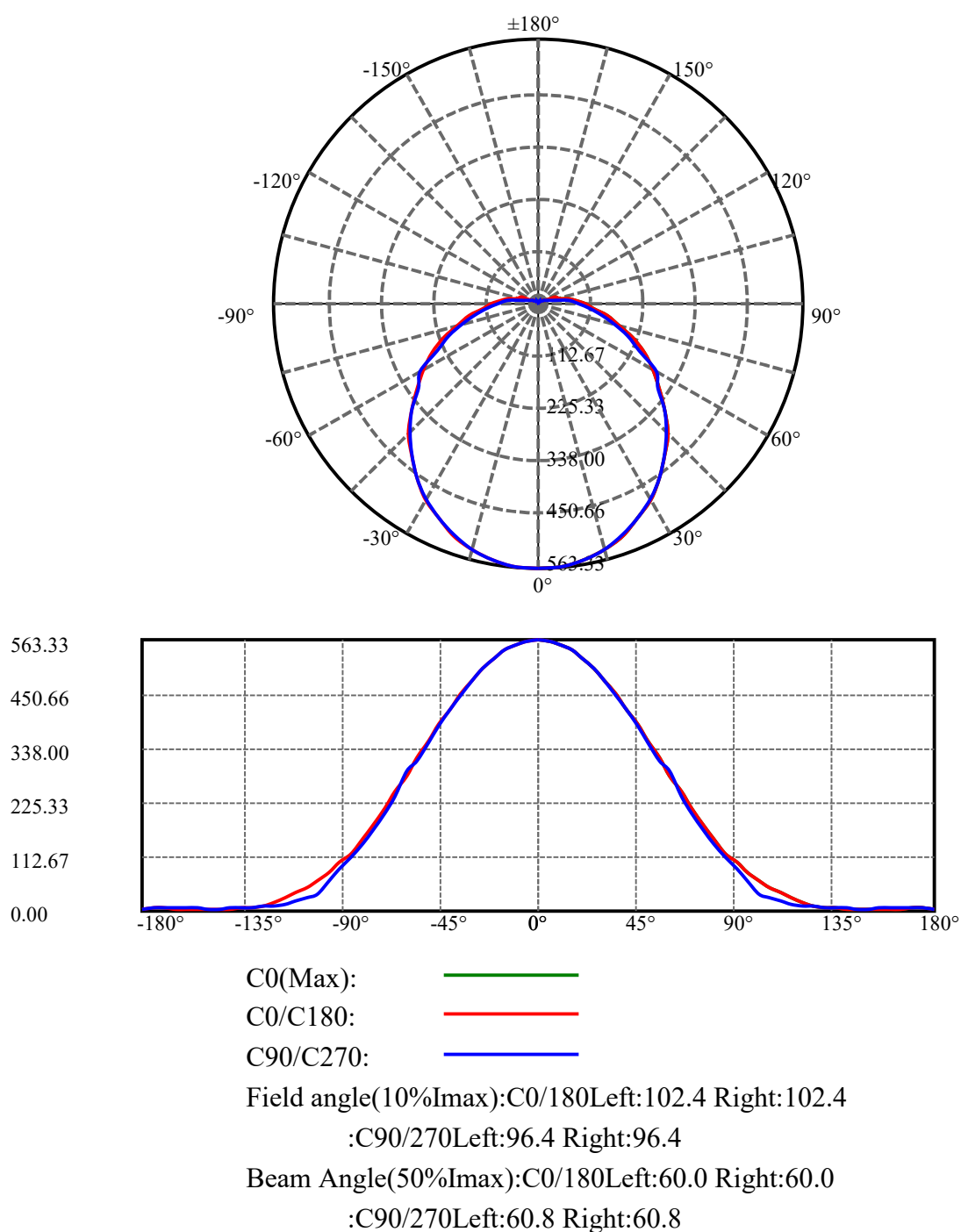
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	563.328	0.000	0	0.00%	0.00%
5.0	560.760	13.438	13.438	0.66%	0.66%
10.0	553.554	39.863	53.301	1.97%	2.63%
15.0	541.594	64.963	118.264	3.21%	5.84%
20.0	525.146	87.914	206.178	4.34%	10.18%
25.0	504.028	107.941	314.12	5.33%	15.51%
30.0	479.379	124.451	438.571	6.15%	21.66%
35.0	450.745	136.967	575.538	6.76%	28.42%
40.0	420.888	145.425	720.963	7.18%	35.61%
45.0	386.576	149.509	870.472	7.38%	42.99%
50.0	351.386	149.116	1019.588	7.36%	50.36%
55.0	315.546	145.013	1164.601	7.16%	57.52%
60.0	280.320	137.733	1302.334	6.80%	64.32%
65.0	243.246	127.280	1429.614	6.29%	70.61%
70.0	208.481	114.380	1543.994	5.65%	76.26%
75.0	176.321	100.581	1644.575	4.97%	81.22%
80.0	148.378	86.880	1731.455	4.29%	85.51%
85.0	120.628	73.095	1804.551	3.61%	89.12%
90.0	94.868	59.004	1863.555	2.91%	92.04%
95.0	74.004	46.239	1909.794	2.28%	94.32%
100.0	51.223	34.027	1943.821	1.68%	96.00%
105.0	37.659	23.782	1967.603	1.17%	97.18%
110.0	26.891	16.872	1984.475	0.83%	98.01%
115.0	18.501	11.493	1995.969	0.57%	98.58%
120.0	13.140	7.692	2003.661	0.38%	98.96%
125.0	10.038	5.358	2009.019	0.26%	99.22%
130.0	7.626	3.841	2012.859	0.19%	99.41%
135.0	5.750	2.703	2015.562	0.13%	99.54%
140.0	4.984	1.988	2017.55	0.10%	99.64%
145.0	4.486	1.580	2019.13	0.08%	99.72%
150.0	4.447	1.315	2020.445	0.06%	99.79%
155.0	4.869	1.179	2021.624	0.06%	99.84%
160.0	5.099	1.046	2022.67	0.05%	99.90%
165.0	5.367	0.863	2023.532	0.04%	99.94%
170.0	6.019	0.675	2024.208	0.03%	99.97%
175.0	6.517	0.448	2024.656	0.02%	99.99%
180.0	3.450	0.119	2024.776	0.01%	100.00%

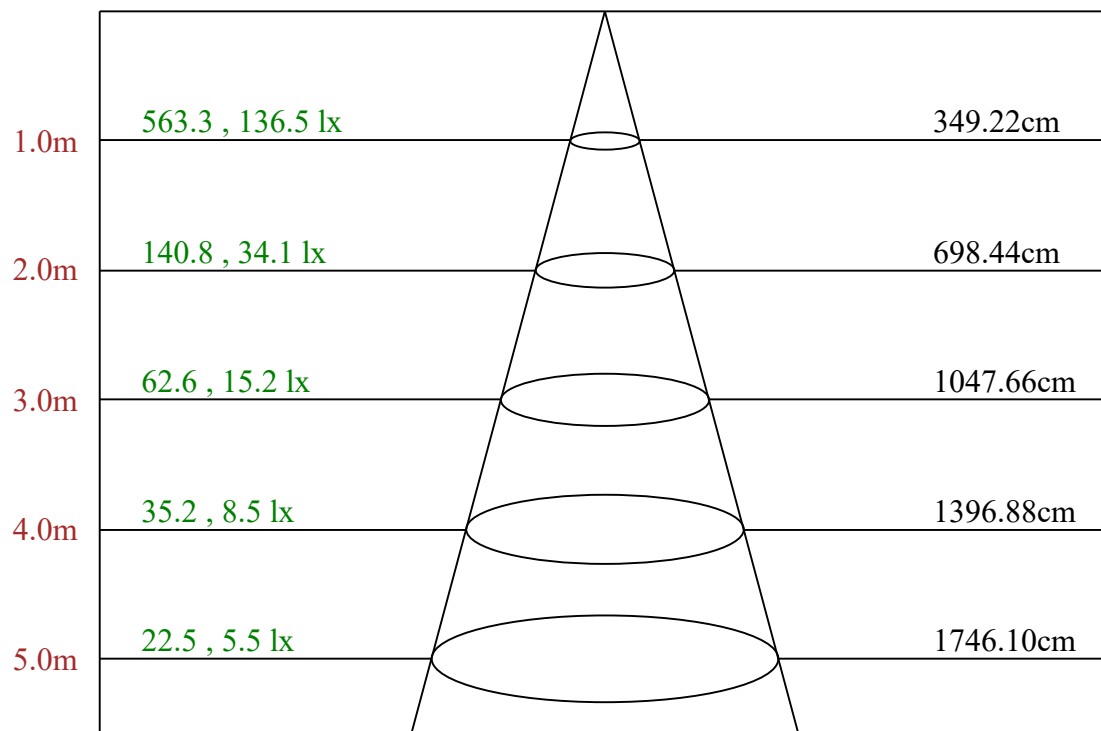
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	438.57	21.66%	21.66%
0-40	720.96	35.61%	35.61%
0-60	1302.33	64.32%	64.32%
0-90	1863.55	92.04%	92.04%
0-120	2003.66	98.96%	98.96%
0-180	2024.78	100.00%	100.00%
60-90	561.22	27.72%	27.72%
90-120	140.11	6.92%	6.92%
90-130	149.30	7.37%	7.37%
90-150	156.89	7.75%	7.75%
90-180	161.10	7.96%	7.96%
0-73.77	1619.82	80.00%	80.00%

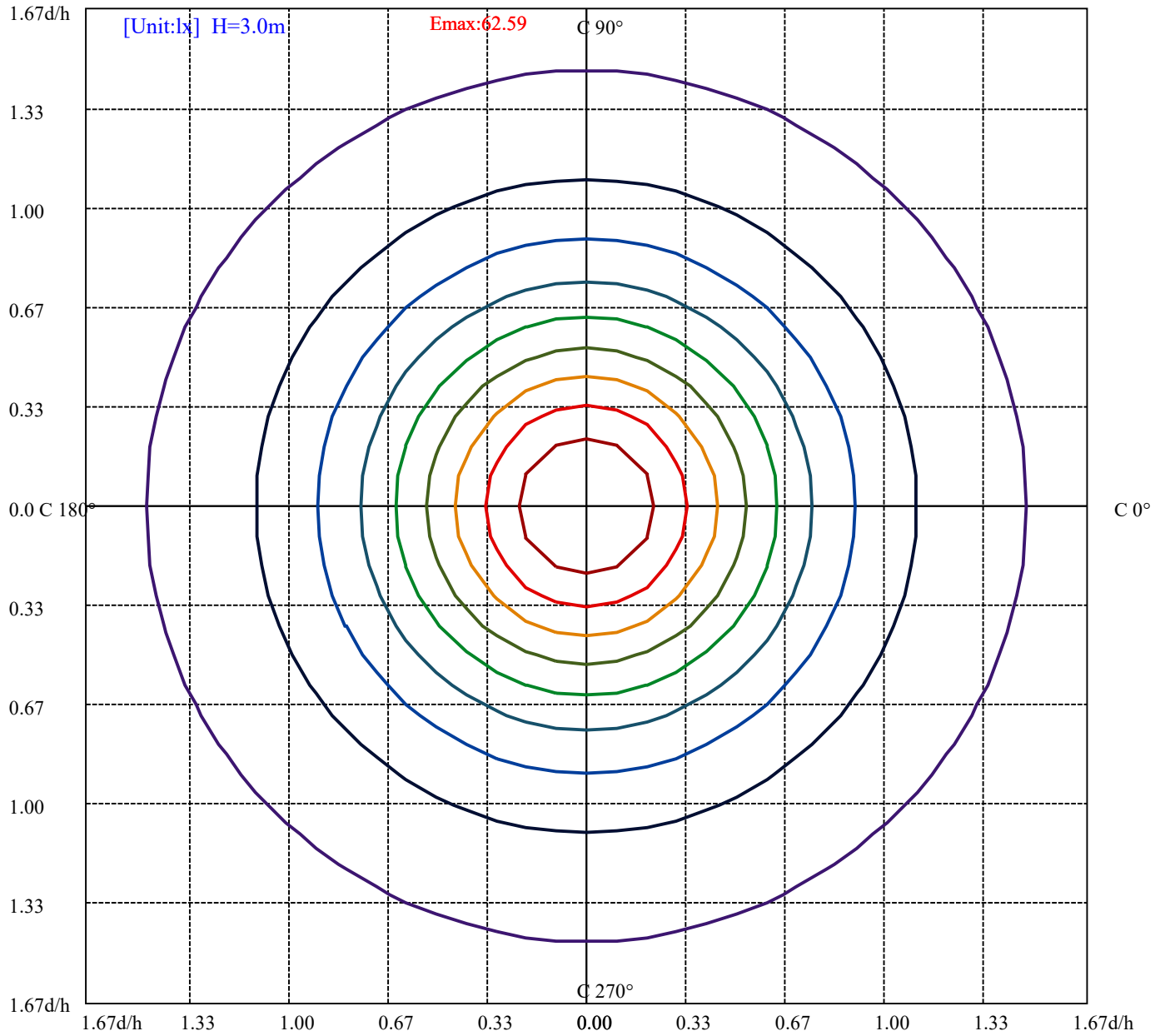
ZONAL LUMEN SUMMARY

0-10	53.30
10-20	152.88
20-30	232.39
30-40	282.39
40-50	298.62
50-60	282.75
60-70	241.66
70-80	187.46
80-90	132.10
90-100	80.27
100-110	40.65
110-120	19.19
120-130	9.20
130-140	4.69
140-150	2.90
150-160	2.22
160-170	1.54
170-180	0.45

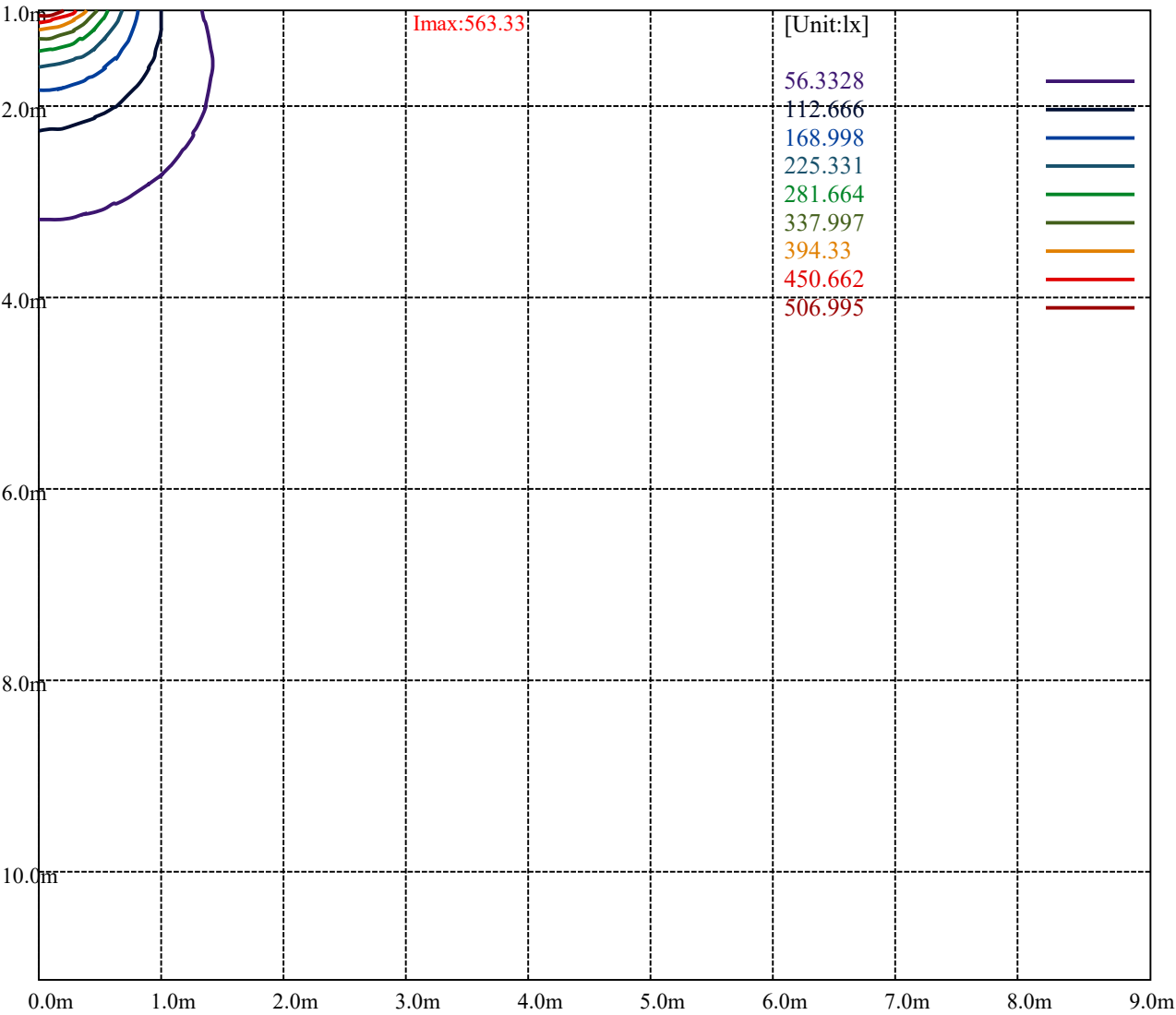




Max , Ave Beam angle of C0 plane 120.40



(10%Emax) 6.2592	—
(20%Emax) 12.51844	—
(30%Emax) 18.77756	—
(40%Emax) 25.03678	—
(50%Emax) 31.296	—
(60%Emax) 37.55522	—
(70%Emax) 43.81444	—
(80%Emax) 50.07355	—
(90%Emax) 56.33278	—



Luminance Table

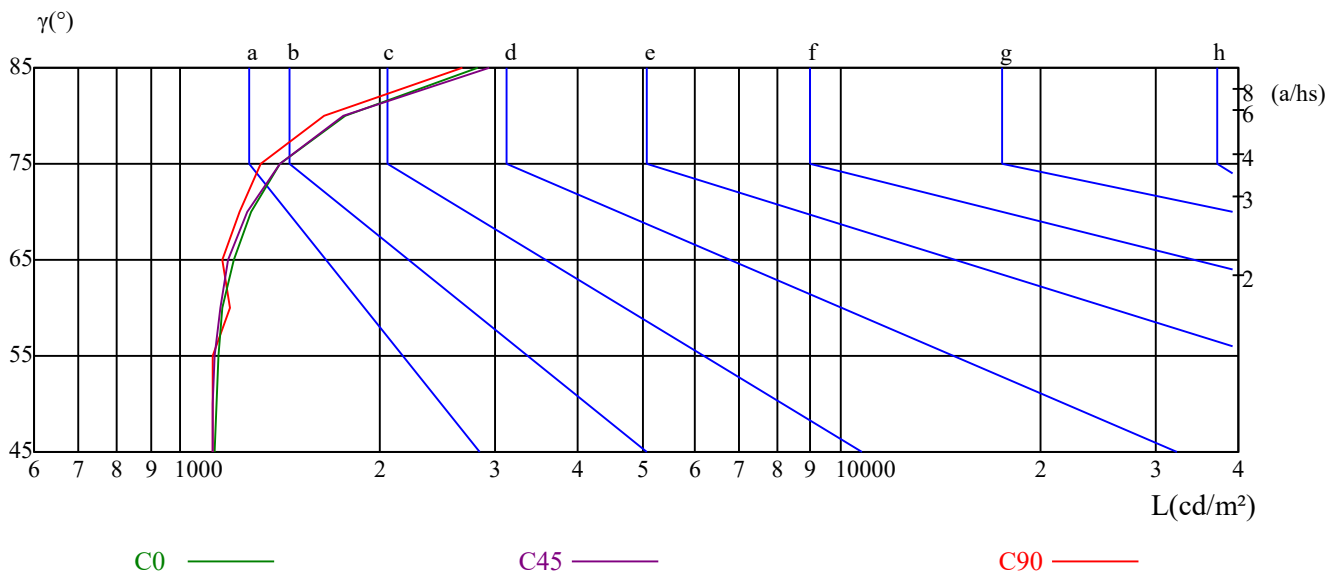
γ	45	50	55	60	65	70	75	80	85
C0	1129	1130	1138	1158	1204	1278	1415	1775	2818
C45	1120	1122	1128	1146	1181	1258	1414	1767	2934
C90	1118	1121	1122	1190	1157	1228	1326	1648	2675

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1204	1157	1181	1415	1326	1414	2818	2675	2934

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



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	1.14	1.14	1.14	1.07	1.07	1.07	1.00	1.00	1.00	0.95	0.95	0.95	0.92
1	0.99	0.94	0.89	0.96	0.91	0.87	0.90	0.86	0.82	0.85	0.81	0.79	0.80	0.77	0.75	0.72
2	0.85	0.77	0.71	0.82	0.75	0.69	0.77	0.71	0.66	0.73	0.68	0.64	0.69	0.65	0.61	0.58
3	0.74	0.65	0.58	0.72	0.64	0.57	0.68	0.61	0.55	0.64	0.58	0.53	0.60	0.55	0.51	0.48
4	0.65	0.56	0.49	0.63	0.55	0.48	0.60	0.52	0.46	0.56	0.50	0.45	0.53	0.48	0.43	0.41
5	0.58	0.49	0.42	0.56	0.48	0.41	0.53	0.46	0.40	0.50	0.44	0.39	0.48	0.42	0.37	0.35
6	0.52	0.43	0.36	0.51	0.42	0.36	0.48	0.40	0.35	0.46	0.39	0.34	0.43	0.37	0.33	0.30
7	0.47	0.38	0.32	0.46	0.37	0.31	0.44	0.36	0.30	0.41	0.35	0.30	0.39	0.33	0.29	0.27
8	0.43	0.34	0.28	0.42	0.34	0.28	0.40	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.24
9	0.39	0.31	0.25	0.38	0.30	0.25	0.37	0.29	0.24	0.35	0.28	0.24	0.33	0.28	0.23	0.21
10	0.36	0.28	0.23	0.35	0.28	0.23	0.34	0.27	0.22	0.32	0.26	0.22	0.31	0.25	0.21	0.19

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Intensity data(cd)										Appendix Page: 10 Total:12	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	563.33	565.15	563.33	556.06	544.25	527.89	507.90	482.46	454.30		
15.0	563.33	566.99	566.07	559.67	551.44	534.98	515.77	492.00	464.56		
30.0	563.33	568.83	567.92	562.41	552.32	537.64	518.37	497.27	469.75		
45.0	563.33	567.92	567.00	562.41	552.32	538.56	519.29	497.27	468.83		
60.0	563.33	568.86	569.78	564.25	554.11	539.36	520.92	496.95	470.21		
75.0	563.33	567.93	567.93	562.41	551.36	537.55	517.30	493.37	465.76		
90.0	563.33	567.94	567.02	560.56	549.50	534.75	514.46	488.65	461.91		
105.0	563.33	567.02	565.18	557.79	546.71	531.01	509.77	483.91	454.36		
120.0	563.33	564.25	561.48	553.19	540.28	521.84	500.63	473.90	445.32		
135.0	563.33	562.41	557.80	548.58	534.75	514.46	491.41	464.68	434.25		
150.0	563.33	561.48	555.00	543.90	512.45	507.83	482.85	455.10	425.50		
165.0	563.33	559.63	552.23	538.35	521.70	499.50	473.60	444.00	410.70		
180.0	563.33	556.06	543.34	526.98	507.00	480.65	453.39	419.77	387.06		
195.0	563.33	555.10	542.29	524.00	502.97	476.45	446.27	413.35	378.60		
210.0	563.33	554.15	539.47	521.12	498.19	470.66	441.30	407.36	373.41		
225.0	563.33	552.32	537.64	519.29	495.44	468.83	437.63	403.69	368.82		
240.0	563.33	554.11	539.36	520.00	496.95	469.29	438.86	405.67	370.63		
255.0	563.33	553.20	538.48	520.99	497.97	468.52	439.99	406.85	371.87		
270.0	563.33	555.03	540.28	522.76	499.71	472.97	442.55	409.36	376.17		
285.0	563.33	555.94	543.01	525.47	503.30	477.44	448.82	416.49	409.11		
300.0	563.33	555.95	544.89	529.21	523.68	484.04	455.46	424.11	390.92		
315.0	563.33	556.87	547.65	533.82	514.46	490.49	465.60	434.25	403.83		
330.0	563.33	559.63	552.23	540.20	522.63	502.28	476.38	447.70	416.25		
345.0	563.33	561.48	555.93	544.83	530.03	509.68	486.55	459.73	429.20		
360.0	563.33	565.15	563.33	556.06	544.25	527.89	507.90	482.46	454.30		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	424.31	390.70	354.35	318.01	282.57	243.50	209.89	178.08	139.92		
15.0	433.47	399.63	363.97	330.13	292.64	253.31	219.48	187.47	160.04		
30.0	439.47	407.36	371.58	334.88	299.10	259.64	227.53	192.67	161.48		
45.0	438.55	407.36	370.66	335.79	298.18	262.40	228.45	193.59	163.31		
60.0	439.78	406.59	370.63	332.83	294.11	255.39	218.51	187.16	154.89		
75.0	435.38	402.25	367.27	330.45	292.71	251.29	217.23	183.17	150.96		
90.0	430.56	397.37	360.49	324.54	285.81	249.86	204.68	175.18	145.67		
105.0	422.96	388.79	353.70	317.68	279.82	242.88	206.86	169.00	130.21		
120.0	413.97	378.93	343.90	306.10	270.14	234.18	201.91	169.64	140.14		
135.0	401.98	366.95	332.83	295.03	260.92	226.81	192.69	163.19	136.45		
150.0	392.20	357.05	320.98	284.90	249.75	217.38	187.78	158.18	130.43		
165.0	378.33	343.18	309.88	274.73	240.50	209.05	177.60	148.93	120.25		
180.0	352.53	316.19	280.76	245.32	212.61	181.72	146.28	121.75	99.04		
195.0	342.94	306.36	272.52	235.94	204.85	173.75	144.49	117.97	93.28		
210.0	336.71	300.93	264.23	228.45	195.42	162.39	136.70	110.10	88.99		
225.0	332.13	294.51	257.81	222.95	186.25	155.05	127.53	106.43	86.24		
240.0	334.68	294.11	258.15	221.27	186.24	153.97	127.23	104.18	81.13		
255.0	335.05	297.31	261.41	220.91	186.86	152.80	125.18	119.66	80.08		
270.0	338.37	303.33	265.53	254.47	189.93	158.58	129.08	103.26	81.13		
285.0	349.08	311.22	274.28	237.34	202.24	169.00	138.52	111.74	84.96		
300.0	356.81	319.93	283.05	248.01	210.21	176.10	143.83	118.94	94.04		
315.0	367.87	334.68	297.80	260.92	225.88	192.69	163.19	133.69	111.56		
330.0	383.88	347.80	310.80	277.50	238.65	205.35	173.90	149.85	126.73		
345.0	396.83	360.75	326.53	289.53	252.53	216.45	183.15	157.25	134.13		
360.0	424.31	390.70	354.35	318.01	282.57	243.50	209.89	178.08	139.92		

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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	126.29	109.94	91.77	71.78	57.24	40.89	26.35	18.17	12.72
15.0	110.65	107.00	87.79	69.50	51.21	35.67	21.03	17.38	11.89
30.0	131.20	96.33	73.40	59.64	43.12	27.52	18.35	15.60	10.09
45.0	128.45	100.00	66.06	45.87	29.36	22.02	17.43	12.84	7.34
60.0	124.47	94.96	58.08	39.65	27.66	21.21	15.67	10.14	7.38
75.0	116.90	95.73	56.15	40.50	29.46	22.09	15.65	11.97	9.20
90.0	116.17	91.28	49.79	42.41	34.11	23.05	18.44	13.83	11.06
105.0	114.51	87.73	45.25	40.63	30.48	23.09	18.47	14.78	11.08
120.0	89.43	77.45	44.25	33.19	21.21	17.52	14.75	11.99	10.14
135.0	108.79	65.46	37.80	26.74	22.13	13.83	10.14	7.38	5.53
150.0	101.75	63.83	37.93	23.13	17.58	12.03	8.33	5.55	3.70
165.0	94.35	62.90	39.78	26.83	15.73	11.10	8.33	5.55	3.70
180.0	76.32	51.79	37.25	23.62	17.26	11.81	8.18	5.45	4.54
195.0	68.59	56.70	39.32	28.35	19.20	13.72	10.06	7.32	5.49
210.0	72.48	56.88	43.12	32.11	22.02	13.76	11.01	8.26	6.42
225.0	71.56	58.72	44.04	33.95	22.94	13.76	11.93	8.26	6.42
240.0	67.30	53.47	49.79	27.66	19.36	11.99	6.45	6.45	5.53
255.0	55.23	44.18	30.38	20.25	12.89	7.36	5.52	4.60	4.60
270.0	57.16	37.80	19.36	14.75	9.22	6.45	4.61	4.61	4.61
285.0	61.87	42.48	24.01	15.70	10.16	6.46	6.46	5.54	3.69
300.0	69.15	56.24	41.49	27.66	15.67	11.06	9.22	8.30	7.38
315.0	92.20	76.52	58.08	39.65	28.58	17.52	11.06	10.14	9.22
330.0	105.45	90.65	73.08	56.43	40.70	24.98	16.65	12.03	10.18
345.0	116.55	98.05	81.40	63.83	48.10	35.15	21.28	14.80	11.10
360.0	126.29	109.94	91.77	71.78	57.24	40.89	26.35	18.17	12.72
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	8.18	6.36	4.54	4.54	4.54	4.54	4.54	5.45	6.36
15.0	7.32	5.49	4.57	4.57	4.57	4.57	4.57	5.49	6.40
30.0	6.42	4.59	3.67	3.67	4.59	4.59	4.59	5.50	6.42
45.0	5.50	4.59	3.67	3.67	4.59	4.59	5.50	5.50	6.42
60.0	5.53	4.61	4.61	4.61	4.61	5.53	5.53	6.45	6.45
75.0	6.44	5.52	4.60	4.60	5.52	5.52	6.44	6.44	6.44
90.0	8.30	6.45	5.53	5.53	5.53	6.45	6.45	7.38	7.38
105.0	9.23	7.39	6.46	5.54	6.46	6.46	7.39	7.39	7.39
120.0	7.38	6.45	5.53	5.53	6.45	7.38	7.38	7.38	7.38
135.0	4.61	3.69	4.61	4.61	5.53	6.45	6.45	7.38	7.38
150.0	3.70	3.70	3.70	3.70	4.63	5.55	5.55	6.48	7.40
165.0	2.78	2.78	3.70	3.70	4.63	5.55	6.48	6.48	7.40
180.0	3.63	2.73	2.73	3.63	3.63	4.54	5.45	6.36	6.36
195.0	3.66	3.66	3.66	3.66	3.66	3.66	5.49	5.49	6.40
210.0	4.59	4.59	4.59	4.59	5.50	5.50	5.50	5.50	6.42
225.0	5.50	5.50	5.50	5.50	5.50	5.50	4.59	4.59	6.42
240.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	4.61	6.45
255.0	3.68	4.60	4.60	4.60	5.52	5.52	4.60	5.52	6.44
270.0	3.69	4.61	4.61	4.61	5.53	5.53	4.61	5.53	6.45
285.0	2.77	2.77	2.77	3.69	4.62	4.62	4.62	5.54	6.46
300.0	6.45	5.53	3.69	3.69	2.77	3.69	4.61	5.53	5.53
315.0	7.38	6.45	5.53	5.53	4.61	3.69	4.61	6.45	5.53
330.0	8.33	6.48	5.55	4.63	4.63	3.70	4.63	6.48	5.55
345.0	8.33	6.48	4.63	3.70	3.70	3.70	4.63	5.55	5.55
360.0	8.18	6.36	4.54	4.54	4.54	4.54	4.54	5.45	6.36

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	6.36
15.0	7.32
30.0	7.34
45.0	7.34
60.0	7.38
75.0	6.44
90.0	6.45
105.0	6.46
120.0	6.45
135.0	6.45
150.0	7.40
165.0	7.40
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	6.36