
Eurofase

Client:

LumCAT: 49240

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 120.030

LampCAT:

Current(A): 0.089

Lamp flux(lm): 133.9

Power (W): 10.220

Number of Lamps: 1

PF: 0.958

Length(mm): 125

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 133.88, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 13.10

Central intensity(cd): 78.843, Maximum intensity(cd): 92.462

Angle of maximum intensity: C=90.0 γ =15.0

Beam Angle(50%Imax): [C0/180]Total=94.4

[C90/270]Total=55.8

Field angle(10%Imax): [C0/180]Total=151.4

[C90/270]Total=89.0

Maximum s/h(1/2): C0_180=1.15 C90_270=1.38

Maximum s/h(1/4): C0_180=1.25 C90_270=1.36

Up flux rate of lamp(%): 2.02%

Down flux rate of lamp(%): 97.99%

Up flux rate of LUM(%): 2.02%

Down flux rate of LUM(%): 97.98%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 84.635%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	77.499	0.000	0	0.00%	0.00%
2.5	77.528	0.464	0.464	0.35%	0.35%
5.0	76.972	1.385	1.849	1.03%	1.38%
7.5	75.038	2.268	4.117	1.69%	3.07%
10.0	71.761	3.061	7.178	2.29%	5.36%
12.5	68.049	3.739	10.916	2.79%	8.15%
15.0	63.834	4.297	15.213	3.21%	11.36%
17.5	59.804	4.742	19.955	3.54%	14.90%
20.0	56.341	5.117	25.072	3.82%	18.73%
22.5	53.336	5.449	30.521	4.07%	22.80%
25.0	50.504	5.732	36.253	4.28%	27.08%
27.5	47.742	5.956	42.209	4.45%	31.53%
30.0	45.096	6.121	48.33	4.57%	36.10%
32.5	42.288	6.214	54.543	4.64%	40.74%
35.0	39.607	6.236	60.78	4.66%	45.40%
37.5	36.949	6.205	66.984	4.63%	50.03%
40.0	34.297	6.112	73.097	4.57%	54.60%
42.5	31.737	5.968	79.065	4.46%	59.05%
45.0	29.248	5.780	84.845	4.32%	63.37%
47.5	26.729	5.542	90.387	4.14%	67.51%
50.0	24.285	5.257	95.645	3.93%	71.44%
52.5	21.981	4.946	100.59	3.69%	75.13%
55.0	19.711	4.608	105.199	3.44%	78.57%
57.5	17.562	4.248	109.446	3.17%	81.75%
60.0	15.437	3.867	113.313	2.89%	84.64%
62.5	13.469	3.474	116.787	2.59%	87.23%
65.0	11.564	3.077	119.864	2.30%	89.53%
67.5	9.763	2.676	122.54	2.00%	91.53%
70.0	8.060	2.277	124.817	1.70%	93.23%
72.5	6.480	1.887	126.704	1.41%	94.64%
75.0	4.974	1.507	128.211	1.13%	95.76%
77.5	3.607	1.143	129.354	0.85%	96.62%
80.0	2.397	0.807	130.161	0.60%	97.22%
82.5	1.419	0.517	130.678	0.39%	97.60%
85.0	0.701	0.289	130.966	0.22%	97.82%
87.5	0.342	0.143	131.109	0.11%	97.93%
90.0	0.214	0.076	131.185	0.06%	97.98%
92.5	0.162	0.052	131.237	0.04%	98.02%

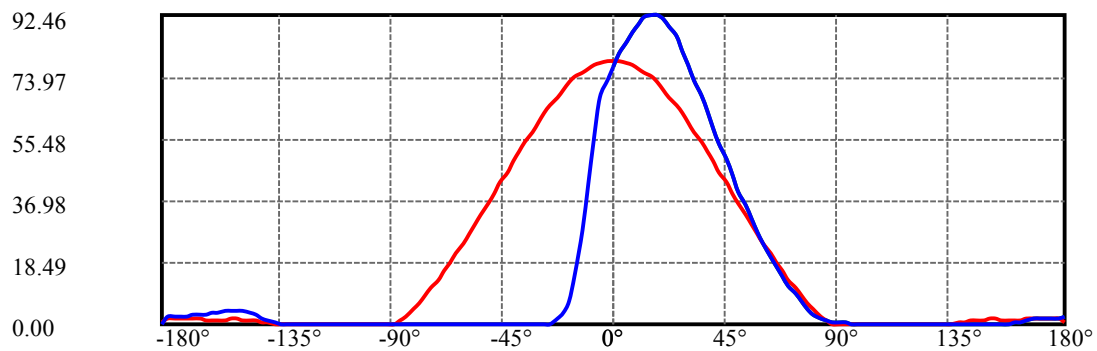
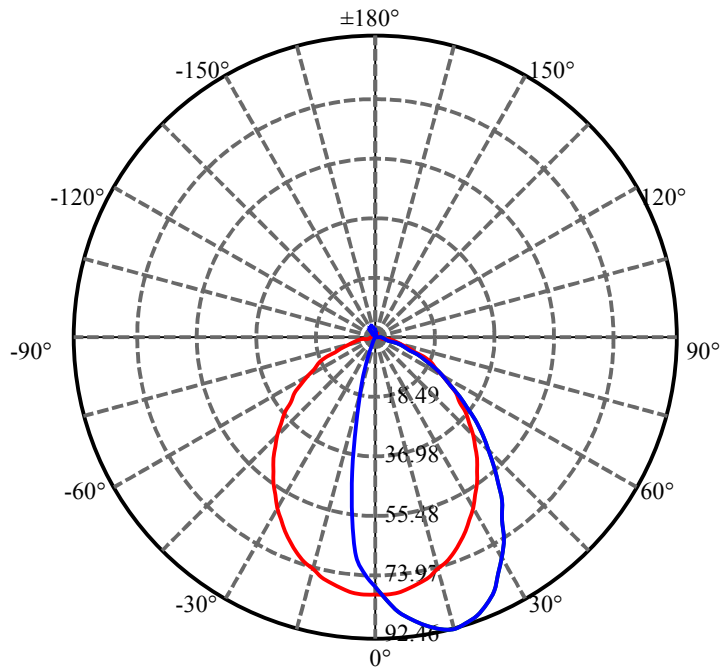
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
95.0	0.035	0.027	131.264	0.02%	98.04%
97.5	0.000	0.005	131.268	0.00%	98.05%
100.0	0.000	0.000	131.268	0.00%	98.05%
102.5	0.000	0.000	131.268	0.00%	98.05%
105.0	0.000	0.000	131.268	0.00%	98.05%
107.5	0.000	0.000	131.268	0.00%	98.05%
110.0	0.000	0.000	131.268	0.00%	98.05%
112.5	0.000	0.000	131.268	0.00%	98.05%
115.0	0.000	0.000	131.268	0.00%	98.05%
117.5	0.000	0.000	131.268	0.00%	98.05%
120.0	0.000	0.000	131.268	0.00%	98.05%
122.5	0.000	0.000	131.268	0.00%	98.05%
125.0	0.000	0.000	131.268	0.00%	98.05%
127.5	0.000	0.000	131.268	0.00%	98.05%
130.0	0.000	0.000	131.268	0.00%	98.05%
132.5	0.006	0.001	131.269	0.00%	98.05%
135.0	0.145	0.015	131.284	0.01%	98.06%
137.5	0.452	0.057	131.34	0.04%	98.10%
140.0	0.799	0.113	131.454	0.08%	98.18%
142.5	1.193	0.171	131.624	0.13%	98.31%
145.0	1.529	0.221	131.845	0.16%	98.48%
147.5	1.662	0.243	132.088	0.18%	98.66%
150.0	1.807	0.247	132.335	0.18%	98.84%
152.5	1.795	0.237	132.572	0.18%	99.02%
155.0	1.737	0.214	132.786	0.16%	99.18%
157.5	1.783	0.194	132.981	0.15%	99.32%
160.0	1.807	0.178	133.159	0.13%	99.46%
162.5	1.865	0.162	133.321	0.12%	99.58%
165.0	1.986	0.148	133.468	0.11%	99.69%
167.5	2.003	0.130	133.598	0.10%	99.79%
170.0	1.946	0.106	133.704	0.08%	99.87%
172.5	1.922	0.081	133.785	0.06%	99.93%
175.0	1.911	0.057	133.842	0.04%	99.97%
177.5	1.911	0.034	133.876	0.03%	99.99%
180.0	0.961	0.009	133.885	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	48.33	36.10%	36.10%
0-40	73.10	54.60%	54.60%
0-60	113.31	84.64%	84.64%
0-90	131.19	97.99%	97.98%
0-120	131.27	98.05%	98.05%
0-180	133.88	100.00%	100.00%
60-90	17.87	13.35%	13.35%
90-120	0.08	0.06%	0.06%
90-130	0.08	0.06%	0.06%
90-150	1.15	0.86%	0.86%
90-180	2.69	2.01%	2.01%
0-56.12	107.11	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	7.18
10-20	17.89
20-30	23.26
30-40	24.77
40-50	22.55
50-60	17.67
60-70	11.50
70-80	5.34
80-90	1.02
90-100	0.08
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.19
140-150	0.88
150-160	0.82
160-170	0.55
170-180	0.17



C90(Max): —————

C0/C180: —————

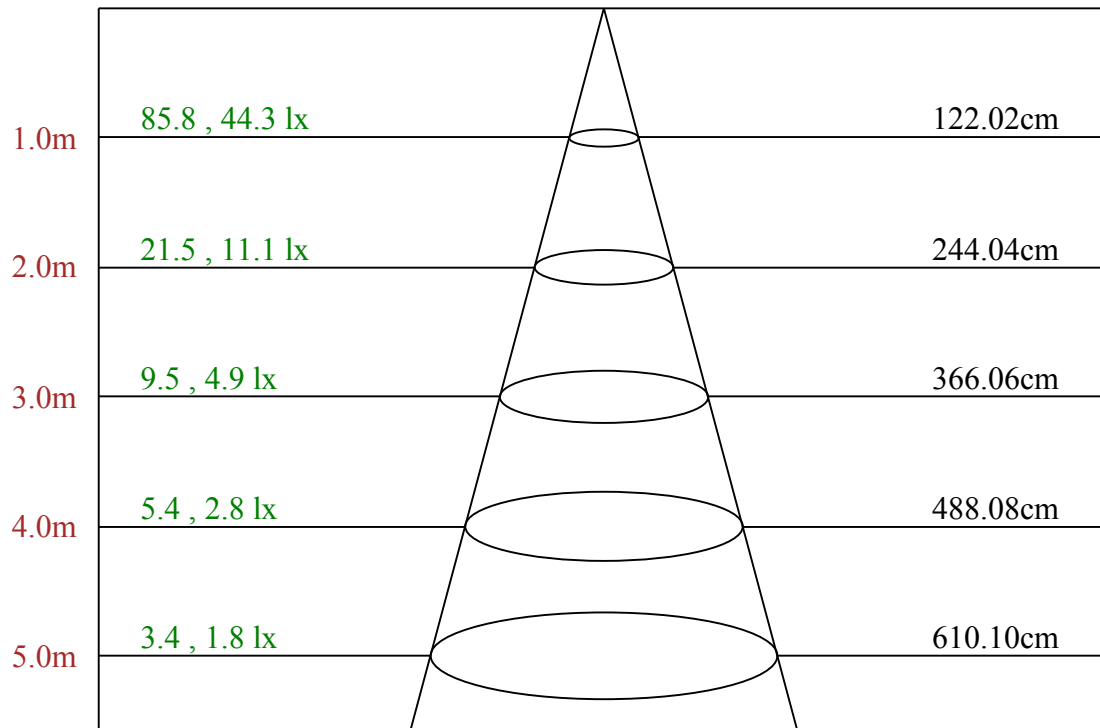
C90/C270: —————

Field angle(10%Imax):C0/180Left:75.7 Right:75.7

:C90/270Left:31.8 Right:57.2

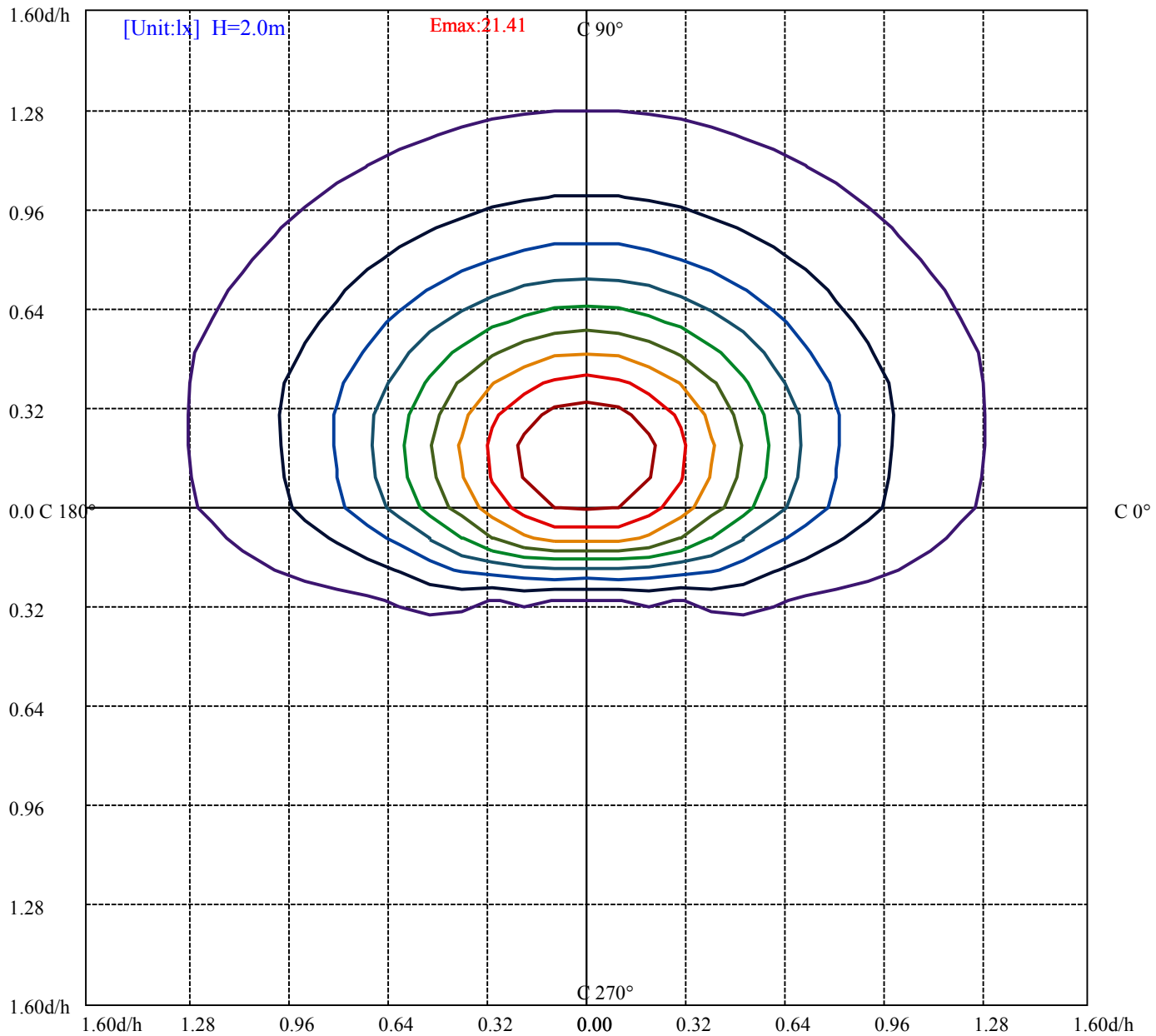
Beam Angle(50%Imax):C0/180Left:47.2 Right:47.2

:C90/270Left:24.2 Right:31.6

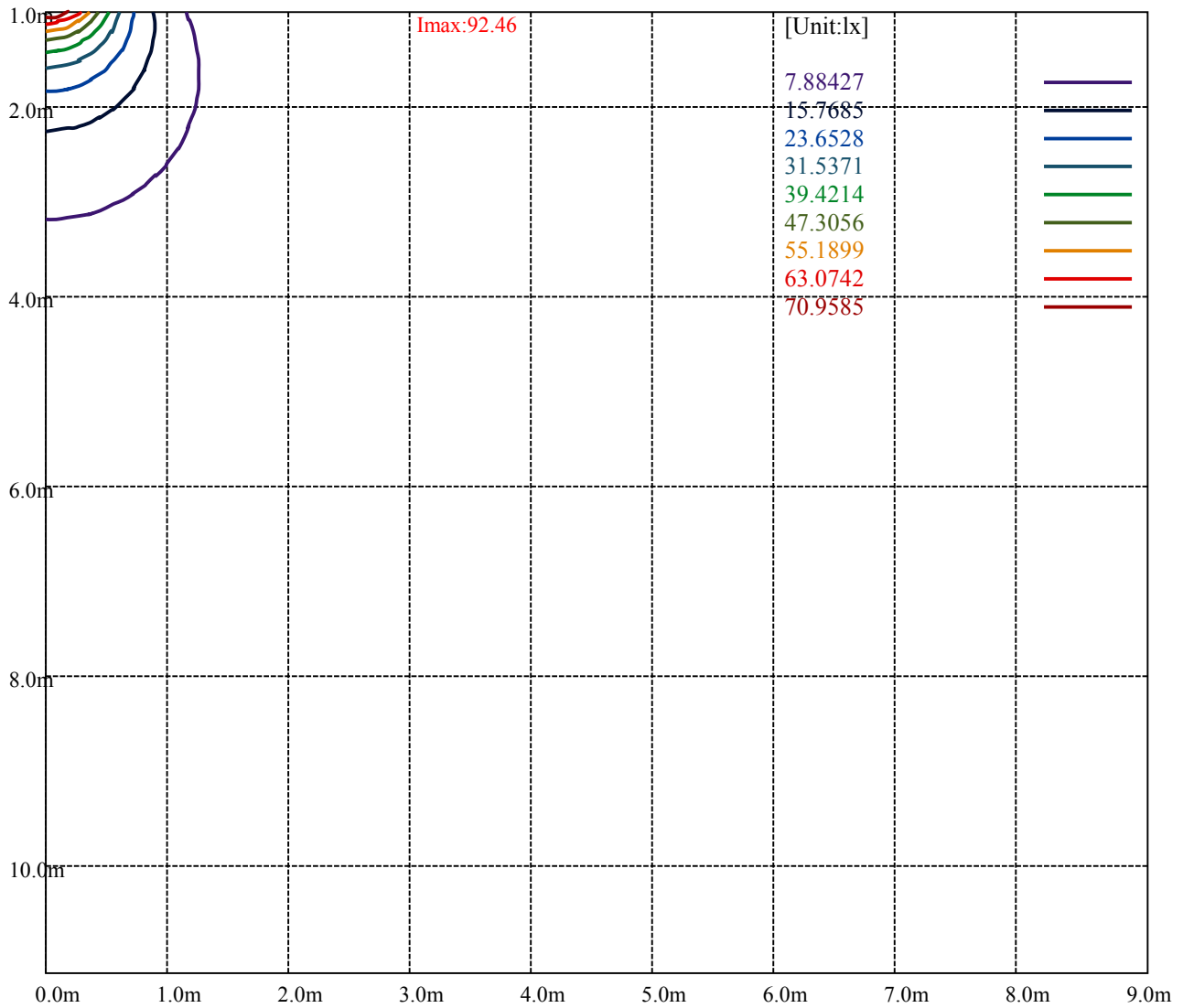


Max , Ave

Beam angle of C90 plane 62.77



(10%Emax) 2.141205	—
(20%Emax) 4.2824	—
(30%Emax) 6.423625	—
(40%Emax) 8.564825	—
(50%Emax) 10.70603	—
(60%Emax) 12.84723	—
(70%Emax) 14.98845	—
(80%Emax) 17.12965	—
(90%Emax) 19.27085	—



Luminance Table

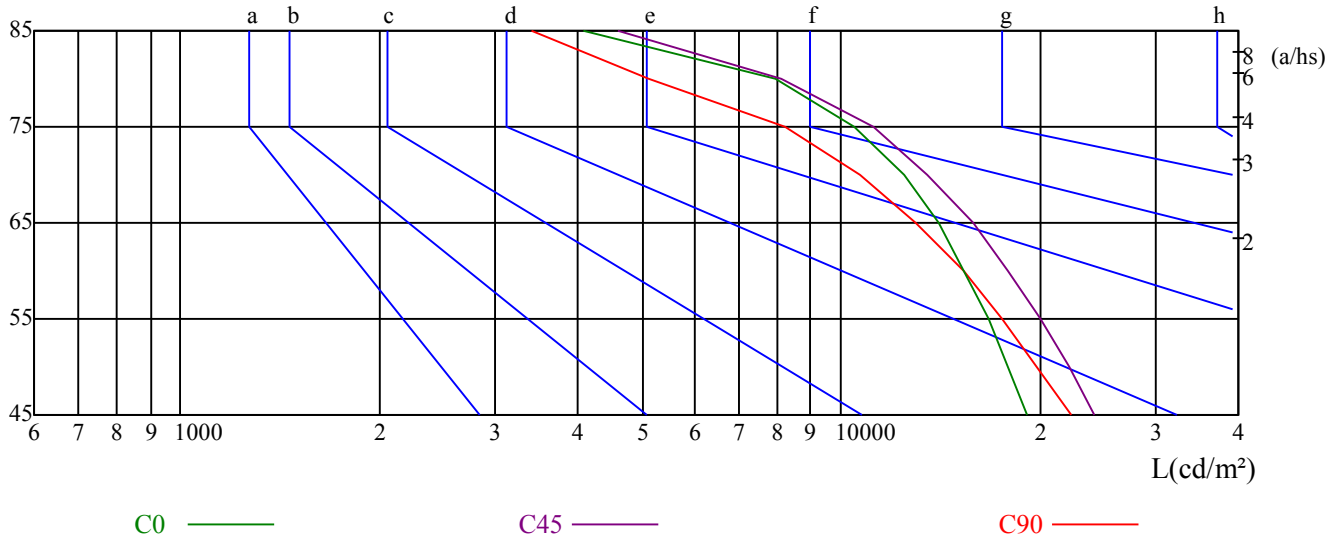
γ	45	50	55	60	65	70	75	80	85
C0	19119	17942	16695	15298	14030	12439	10481	7939	4082
C45	24192	22139	20003	17877	15854	13522	11168	8110	4592
C90	22263	19833	17522	15298	12978	10662	8247	5122	3402

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14030	6489	7962	10481	4124	5584	4082	1701	2296

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

 $\gamma(^{\circ})$ 

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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.06	1.02	0.99	1.03	1.00	0.97	0.99	0.96	0.94	0.95	0.92	0.90	0.91	0.89	0.87	0.85
2	0.94	0.88	0.83	0.92	0.86	0.82	0.88	0.84	0.80	0.85	0.81	0.77	0.81	0.78	0.76	0.73
3	0.84	0.77	0.71	0.82	0.75	0.70	0.79	0.73	0.69	0.76	0.71	0.67	0.73	0.69	0.66	0.64
4	0.75	0.67	0.61	0.74	0.66	0.61	0.71	0.65	0.60	0.69	0.63	0.59	0.66	0.62	0.58	0.56
5	0.68	0.60	0.54	0.67	0.59	0.53	0.65	0.58	0.53	0.62	0.57	0.52	0.61	0.55	0.51	0.49
6	0.62	0.54	0.48	0.61	0.53	0.48	0.59	0.52	0.47	0.57	0.51	0.46	0.55	0.50	0.46	0.44
7	0.57	0.49	0.43	0.56	0.48	0.43	0.54	0.47	0.42	0.53	0.46	0.42	0.51	0.46	0.41	0.40
8	0.52	0.44	0.39	0.51	0.44	0.39	0.50	0.43	0.38	0.49	0.43	0.38	0.47	0.42	0.38	0.36
9	0.48	0.41	0.35	0.48	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.44	0.39	0.35	0.33
10	0.45	0.37	0.33	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.41	0.36	0.32	0.30

Intensity data(cd)

C/γ(°)	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
0.0	78.84	78.56	78.29	77.55	76.25	75.04	73.65	71.80	69.67
22.5	78.01	79.49	80.88	81.53	81.81	82.27	81.81	80.97	79.95
45.0	77.92	80.33	83.01	85.05	86.44	87.55	87.83	87.92	87.09
67.5	77.18	80.88	84.22	87.00	89.50	90.61	91.54	91.54	90.24
90.0	76.80	80.88	84.31	87.37	89.87	91.72	92.46	92.28	91.16
112.5	76.16	79.95	83.38	86.16	88.57	90.33	91.07	91.35	90.42
135.0	76.99	80.14	82.64	84.96	86.72	87.92	88.57	88.85	88.39
157.5	78.10	79.95	81.25	82.18	82.92	83.01	82.83	82.55	81.81
180.0	78.84	78.84	78.38	77.82	76.90	75.79	74.21	72.64	70.69
202.5	78.01	76.53	74.95	72.64	69.86	67.08	61.98	55.87	50.40
225.0	77.92	75.23	71.71	67.26	57.72	47.99	37.80	27.98	17.79
247.5	77.18	73.56	68.65	59.02	46.79	33.72	20.57	10.19	4.91
270.0	76.80	72.91	67.54	55.59	42.06	27.89	14.92	6.95	3.43
292.5	76.16	72.64	67.54	58.37	46.32	33.63	20.85	10.56	5.10
315.0	76.99	74.21	70.32	66.06	57.16	47.81	38.63	28.54	19.18
337.5	78.10	76.34	74.49	72.08	69.30	66.43	62.63	56.89	51.23
360.0	78.84	78.56	78.29	77.55	76.25	75.04	73.65	71.80	69.67
C/γ(°)	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5
0.0	67.35	65.04	62.26	59.39	56.70	53.83	50.77	47.71	44.56
22.5	78.66	76.90	74.58	72.26	69.39	66.52	63.19	59.76	55.87
45.0	85.88	83.85	81.07	77.45	73.56	69.58	65.50	60.68	56.05
67.5	88.48	85.51	81.71	77.82	73.28	68.74	63.83	58.83	54.29
90.0	88.85	85.88	81.53	77.64	73.10	68.19	63.46	58.46	53.92
112.5	88.66	86.07	82.83	78.94	74.30	69.58	65.32	60.41	55.59
135.0	87.37	85.61	83.38	80.23	76.71	73.19	68.65	64.20	59.66
157.5	80.51	79.12	77.18	74.95	72.45	69.58	66.61	63.28	59.76
180.0	68.65	66.24	63.74	61.05	58.28	55.59	52.44	49.38	46.23
202.5	44.19	38.26	32.24	26.59	21.40	16.95	13.53	11.30	9.54
225.0	10.47	6.39	4.35	3.06	1.76	1.20	1.11	1.02	0.83
247.5	2.69	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	2.78	1.20	0.09	0.00	0.00	0.00	0.00	0.00	0.00
315.0	11.95	7.41	5.00	3.52	2.13	1.58	1.39	1.11	1.02
337.5	45.40	39.75	33.91	28.63	23.53	19.18	15.38	12.60	10.47
360.0	67.35	65.04	62.26	59.39	56.70	53.83	50.77	47.71	44.56
C/γ(°)	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0
0.0	41.41	38.36	35.21	32.15	29.09	26.03	22.98	20.48	17.60
22.5	51.98	48.08	43.82	39.84	35.85	32.52	28.54	24.83	21.40
45.0	51.51	46.88	42.71	38.36	34.19	30.20	26.40	22.79	19.55
67.5	49.57	44.56	40.02	36.13	31.87	27.79	24.18	20.57	17.51
90.0	49.20	44.66	39.84	35.58	31.41	27.33	23.90	20.38	17.14
112.5	50.96	46.32	41.69	37.71	33.45	29.55	25.76	22.14	18.81
135.0	55.40	50.68	46.23	41.69	37.52	33.45	29.46	25.94	22.33
157.5	56.14	52.25	48.27	44.38	40.67	36.78	32.89	29.18	25.57
180.0	43.08	39.84	36.87	33.82	30.76	27.79	24.83	22.14	19.46
202.5	8.15	6.95	6.02	5.28	4.73	4.26	3.71	3.24	2.78
225.0	0.74	0.65	0.65	0.56	0.37	0.37	0.28	0.28	0.09
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.83	0.74	0.65	0.56	0.46	0.46	0.28	0.28	0.09
337.5	8.99	7.69	6.58	5.65	5.00	4.45	3.80	3.24	2.69
360.0	41.41	38.36	35.21	32.15	29.09	26.03	22.98	20.48	17.60

Intensity data(cd)

Appendix Page: 12 Total:13

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
0.0	14.82	12.32	10.01	7.60	5.37	3.43	1.76	0.46	0.00
22.5	17.97	14.82	11.67	8.89	6.39	4.08	2.32	0.83	0.19
45.0	16.03	13.06	10.28	7.88	5.47	3.34	1.76	0.74	0.56
67.5	14.55	11.58	9.08	6.58	4.54	2.69	1.48	0.83	0.74
90.0	14.18	11.40	8.99	6.67	4.45	2.78	1.58	0.93	0.83
112.5	15.94	13.06	10.38	7.88	5.65	3.71	2.13	1.20	0.74
135.0	18.99	15.84	12.97	10.19	7.78	5.47	3.43	1.76	0.83
157.5	22.14	18.81	15.75	12.51	9.64	7.13	4.73	2.69	1.11
180.0	16.77	14.27	11.67	9.36	7.13	5.19	3.34	1.76	0.46
202.5	2.41	2.04	1.58	1.20	0.83	0.46	0.19	0.00	0.00
225.0	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	2.22	1.76	1.30	0.83	0.46	0.09	0.00	0.00	0.00
360.0	14.82	12.32	10.01	7.60	5.37	3.43	1.76	0.46	0.00
C/γ(°)	90.0	92.5	95.0	97.5	100.0	102.5	105.0	107.5	110.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.46	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.65	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.74	0.56	0.28	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.65	0.65	0.19	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.46	0.56	0.09	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.37	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	112.5	115.0	117.5	120.0	122.5	125.0	127.5	130.0	132.5
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Eurofase 49240

Intensity data(cd)

Appendix Page: 13 Total:13

C/γ(°)	135.0	137.5	140.0	142.5	145.0	147.5	150.0	152.5	155.0
0.0	0.00	0.00	0.00	0.09	0.19	0.28	0.46	0.56	0.56
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.28	0.37
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.19
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.19	0.28
157.5	0.00	0.00	0.00	0.00	0.00	0.09	0.37	0.56	0.65
180.0	0.28	0.74	1.20	1.76	2.32	2.50	2.59	2.41	2.13
202.5	0.28	0.93	1.58	2.32	2.87	3.06	3.24	3.06	2.78
225.0	0.28	1.02	1.76	2.50	3.24	3.52	3.71	3.52	3.43
247.5	0.28	1.02	1.76	2.69	3.43	3.71	3.98	3.80	3.61
270.0	0.56	1.11	1.95	2.78	3.52	3.80	3.98	3.98	3.80
292.5	0.37	1.02	1.76	2.78	3.43	3.71	3.89	3.80	3.71
315.0	0.28	0.83	1.48	2.41	3.06	3.34	3.61	3.52	3.34
337.5	0.00	0.56	1.30	1.76	2.41	2.59	2.78	2.87	2.69
360.0	0.00	0.00	0.00	0.09	0.19	0.28	0.46	0.56	0.56
C/γ(°)	157.5	160.0	162.5	165.0	167.5	170.0	172.5	175.0	177.5
0.0	0.65	0.74	0.93	1.20	1.30	1.48	1.48	1.39	1.39
22.5	0.46	0.56	0.83	1.02	1.30	1.39	1.39	1.48	1.48
45.0	0.19	0.46	0.83	1.02	1.30	1.39	1.48	1.58	1.48
67.5	0.28	0.46	0.74	1.11	1.30	1.48	1.58	1.67	1.67
90.0	0.28	0.46	0.83	1.20	1.48	1.58	1.76	1.85	1.95
112.5	0.28	0.56	1.02	1.39	1.76	1.95	2.04	2.13	2.13
135.0	0.56	0.74	1.20	1.76	2.04	2.13	2.22	2.32	2.32
157.5	0.74	1.02	1.58	2.04	2.22	2.32	2.50	2.59	2.69
180.0	2.13	2.04	1.85	1.95	1.85	1.67	1.67	1.67	1.48
202.5	2.69	2.69	2.32	2.32	2.13	1.95	1.67	1.58	1.58
225.0	3.24	3.06	2.78	2.59	2.32	2.04	1.85	1.67	1.67
247.5	3.52	3.24	2.96	2.69	2.41	2.22	2.04	1.76	1.76
270.0	3.61	3.43	2.96	2.87	2.59	2.32	2.13	2.04	2.04
292.5	3.61	3.34	3.06	2.87	2.69	2.32	2.13	2.13	2.13
315.0	3.43	3.24	3.06	2.87	2.69	2.32	2.32	2.22	2.32
337.5	2.87	2.87	2.87	2.87	2.69	2.59	2.50	2.50	2.50
360.0	0.65	0.74	0.93	1.20	1.30	1.48	1.48	1.39	1.39
C/γ(°)	180.0								
0.0	1.39								
22.5	1.58								
45.0	1.48								
67.5	1.76								
90.0	2.04								
112.5	2.13								
135.0	2.41								
157.5	2.59								
180.0	0.00								
202.5	0.00								
225.0	0.00								
247.5	0.00								
270.0	0.00								
292.5	0.00								
315.0	0.00								
337.5	0.00								
360.0	1.39								