
革星

Client:

LumCAT: 吸顶灯

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.244

Lamp flux(lm): 938.6

Power (W): 24.320

Number of Lamps: 1

PF: 0.832

Length(mm): -310

Width(mm): -310

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 938.58, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 38.59

Central intensity(cd): 314.197, Maximum intensity(cd): 314.197

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=115.0

[C90/270]Total=115.0

Field angle(10%Imax): [C0/180]Total=163.8

[C90/270]Total=163.4

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

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

Up flux rate of lamp(%): 1.01%

Down flux rate of lamp(%): 98.99%

Up flux rate of LUM(%): 1.01%

Down flux rate of LUM(%): 98.99%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 76.843%

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Zonal flux distribution table

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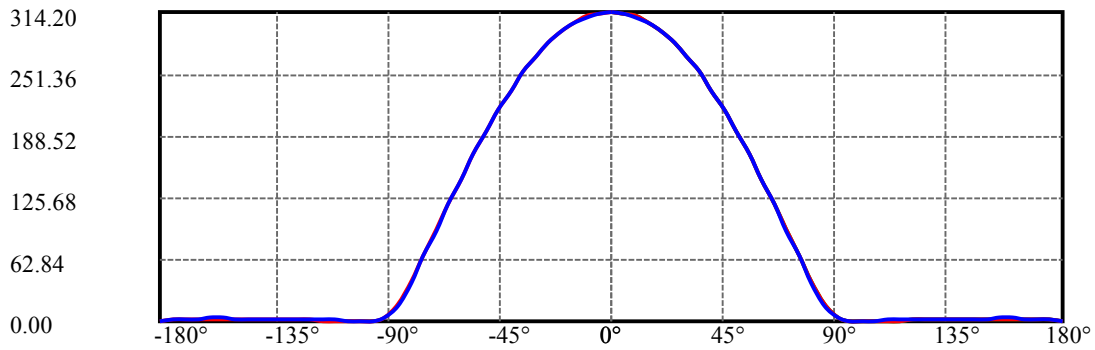
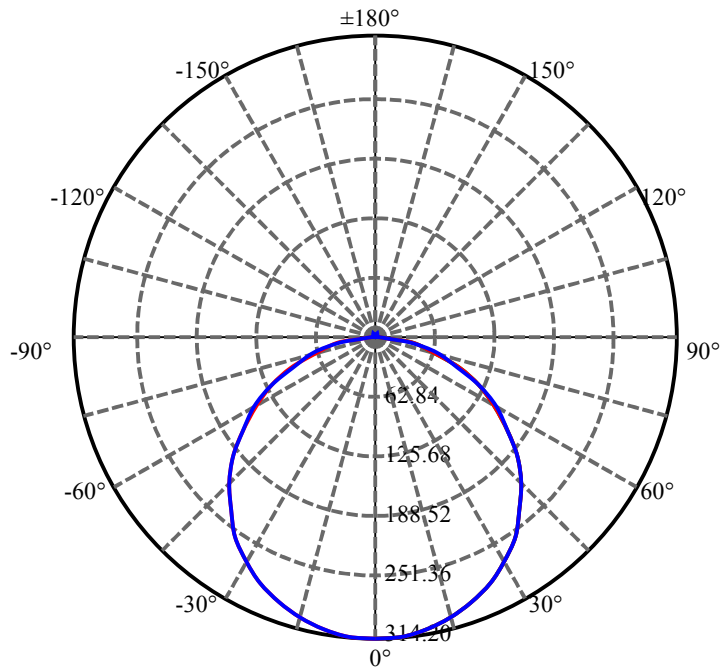
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	314.197	0.000	0	0.00%	0.00%
5.0	313.023	7.498	7.498	0.80%	0.80%
10.0	309.417	22.267	29.765	2.37%	3.17%
15.0	303.334	36.348	66.113	3.87%	7.04%
20.0	294.704	49.287	115.4	5.25%	12.30%
25.0	283.421	60.635	176.034	6.46%	18.76%
30.0	269.524	69.976	246.01	7.46%	26.21%
35.0	253.260	76.984	322.993	8.20%	34.41%
40.0	234.717	81.415	404.409	8.67%	43.09%
45.0	214.736	83.220	487.629	8.87%	51.95%
50.0	192.589	82.306	569.934	8.77%	60.72%
55.0	169.467	78.723	648.657	8.39%	69.11%
60.0	144.510	72.575	721.232	7.73%	76.84%
65.0	118.751	63.999	785.231	6.82%	83.66%
70.0	92.465	53.481	838.713	5.70%	89.36%
75.0	65.847	41.380	880.093	4.41%	93.77%
80.0	39.825	28.275	908.368	3.01%	96.78%
85.0	16.461	15.294	923.662	1.63%	98.41%
90.0	3.518	5.471	929.132	0.58%	98.99%
95.0	0.508	1.103	930.235	0.12%	99.11%
100.0	0.664	0.318	930.553	0.03%	99.14%
105.0	0.775	0.385	930.938	0.04%	99.19%
110.0	0.930	0.445	931.384	0.05%	99.23%
115.0	1.041	0.499	931.883	0.05%	99.29%
120.0	1.351	0.582	932.464	0.06%	99.35%
125.0	1.484	0.656	933.12	0.07%	99.42%
130.0	1.595	0.670	933.79	0.07%	99.49%
135.0	1.684	0.663	934.452	0.07%	99.56%
140.0	1.994	0.681	935.133	0.07%	99.63%
145.0	2.215	0.702	935.836	0.07%	99.71%
150.0	2.348	0.672	936.507	0.07%	99.78%
155.0	2.703	0.639	937.147	0.07%	99.85%
160.0	2.902	0.588	937.735	0.06%	99.91%
165.0	2.545	0.449	938.183	0.05%	99.96%
170.0	1.966	0.268	938.451	0.03%	99.99%
175.0	1.128	0.111	938.562	0.01%	100.00%
180.0	0.531	0.020	938.581	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	246.01	26.21%	26.21%
0-40	404.41	43.09%	43.09%
0-60	721.23	76.84%	76.84%
0-90	929.13	98.99%	98.99%
0-120	932.46	99.35%	99.35%
0-180	938.58	100.00%	100.00%
60-90	207.90	22.15%	22.15%
90-120	3.33	0.35%	0.35%
90-130	4.66	0.50%	0.50%
90-150	7.38	0.79%	0.79%
90-180	9.43	1.00%	1.00%
0-62.32	750.87	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	29.76
10-20	85.63
20-30	130.61
30-40	158.40
40-50	165.53
50-60	151.30
60-70	117.48
70-80	69.65
80-90	20.76
90-100	1.42
100-110	0.83
110-120	1.08
120-130	1.33
130-140	1.34
140-150	1.37
150-160	1.23
160-170	0.72
170-180	0.11



C0(Max): —————

C0/C180: —————

C90/C270: —————

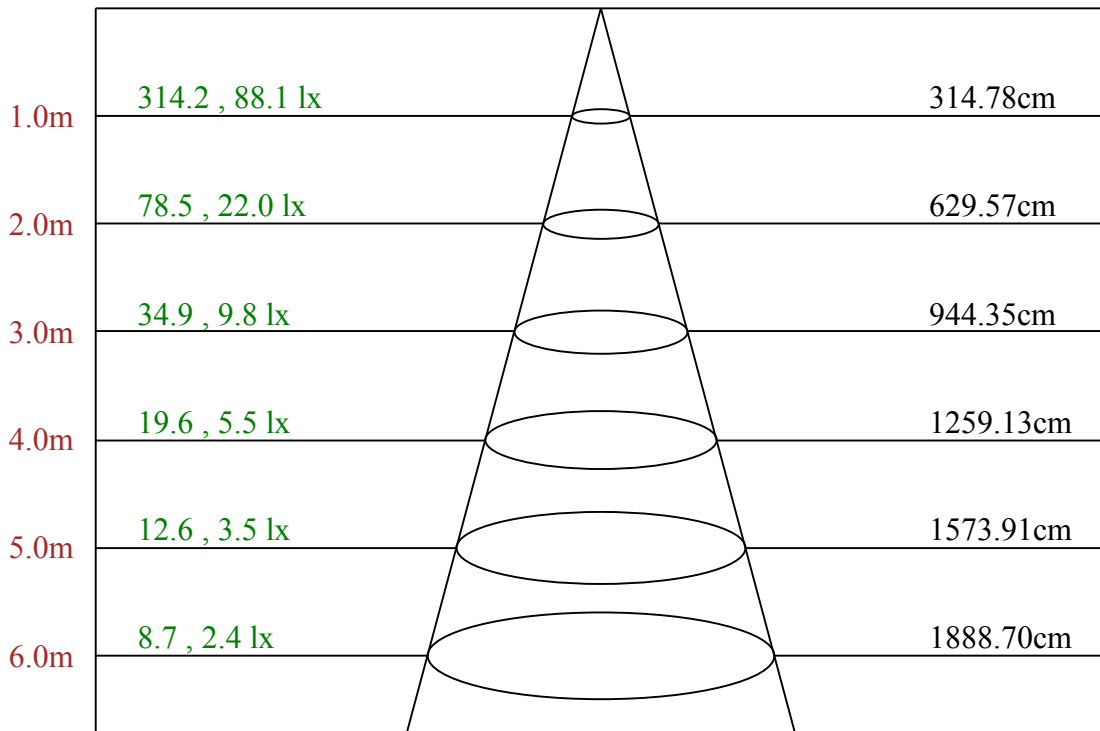
Field angle(10%Imax):C0/180Left:81.9 Right:81.9

:C90/270Left:81.7 Right:81.7

Beam Angle(50%Imax):C0/180Left:57.5 Right:57.5

:C90/270Left:57.5 Right:57.5

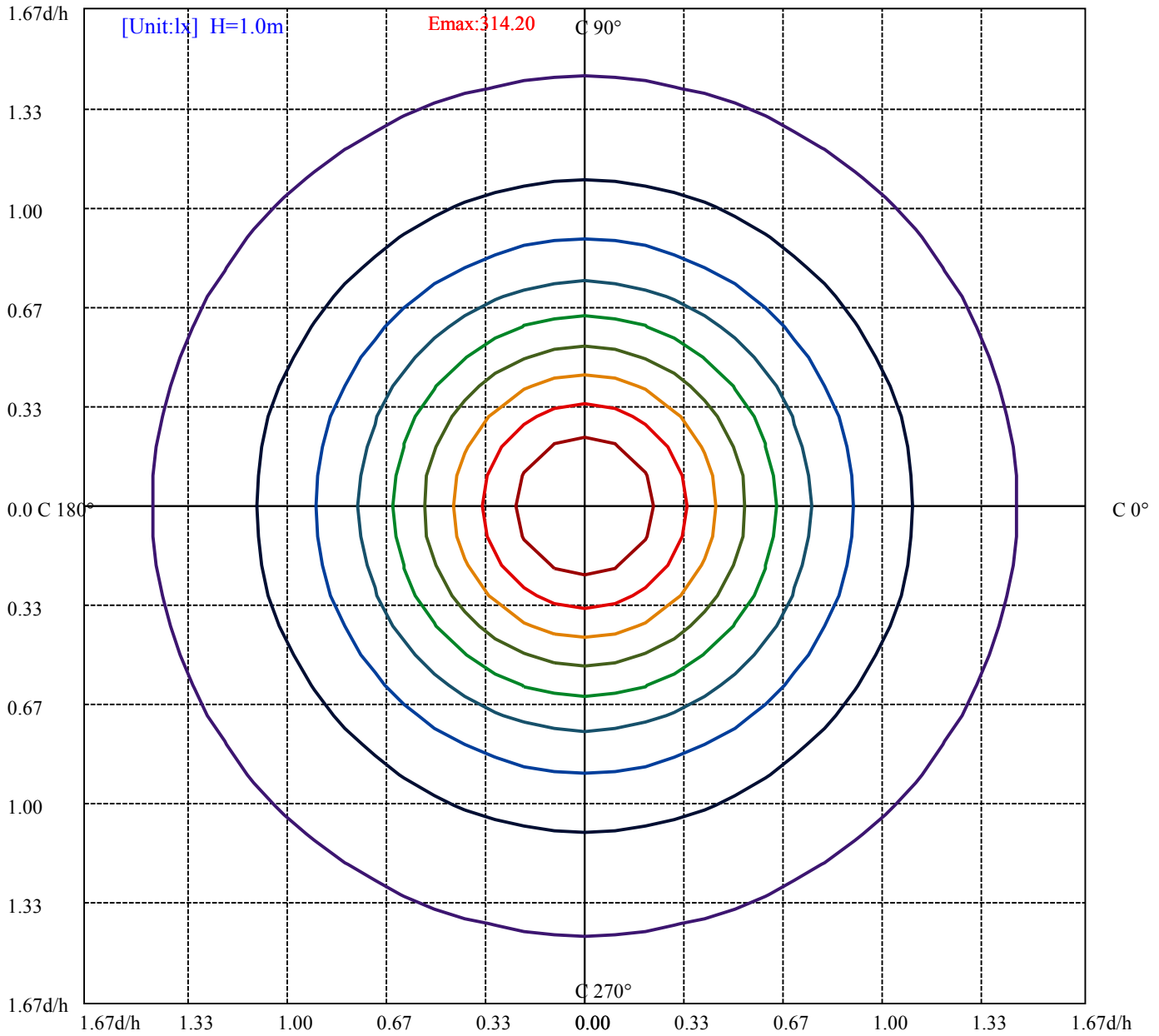
革星 吸顶灯



Max , Ave Beam angle of C0 plane 115.14

革星 吸顶灯

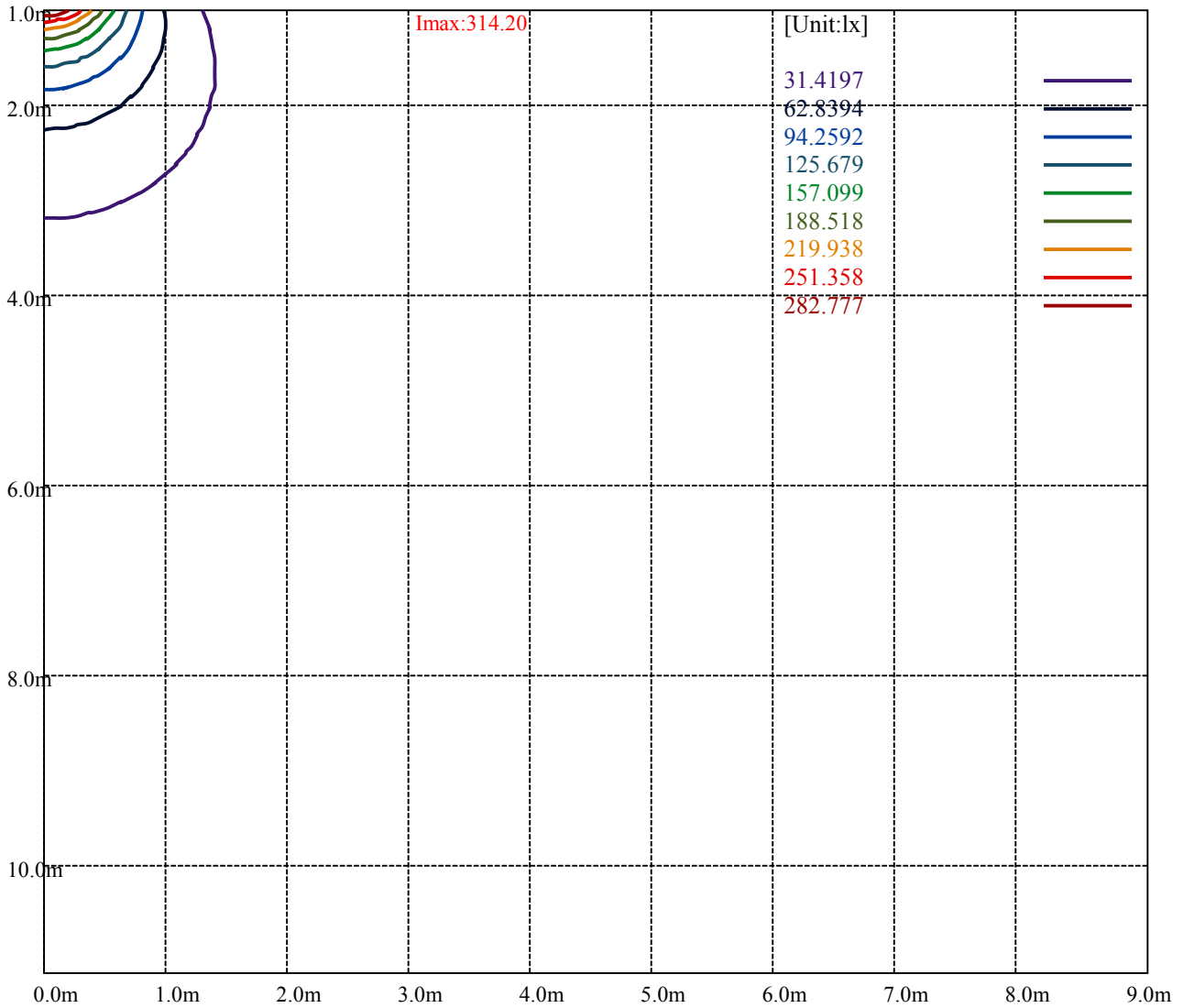
ISO illuminance diagram



(10%Emax) 31.4197	—
(20%Emax) 62.8394	—
(30%Emax) 94.2591	—
(40%Emax) 125.679	—
(50%Emax) 157.099	—
(60%Emax) 188.518	—
(70%Emax) 219.938	—
(80%Emax) 251.358	—
(90%Emax) 282.777	—

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Space ISO Lux diagram



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Luminance Limiting Curve(no luminous side)

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Luminance Table

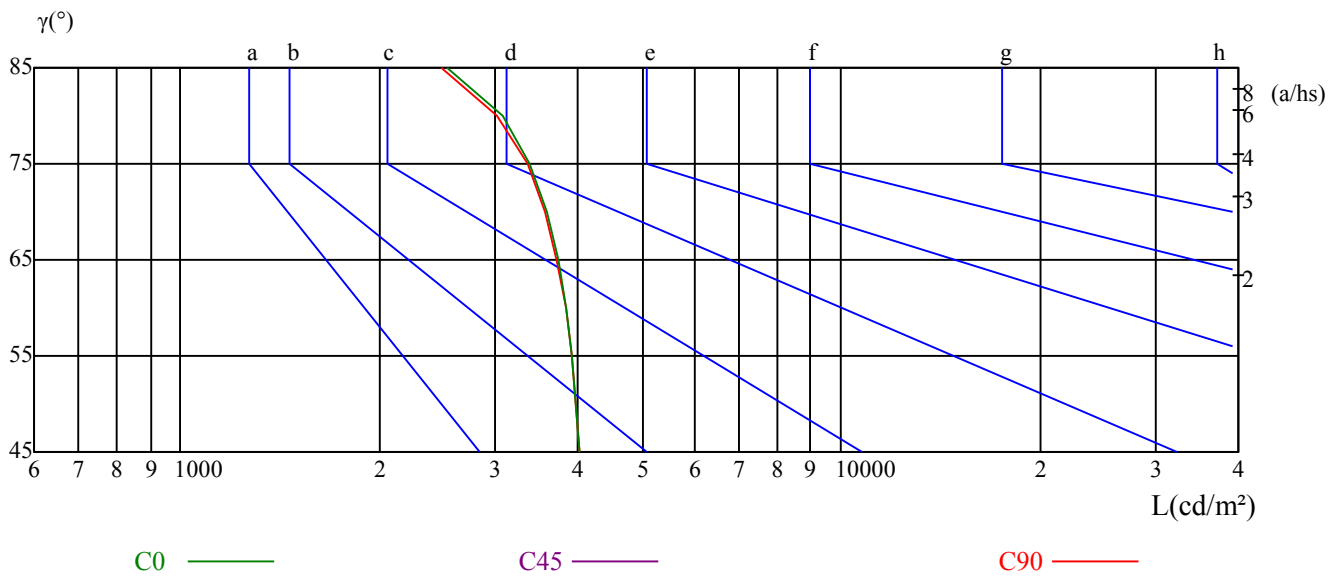
γ	45	50	55	60	65	70	75	80	85
C0	4030	3972	3916	3825	3732	3593	3386	3072	2526
C45	0	0	0	0	0	0	0	0	0
C90	4017	3967	3913	3833	3714	3571	3355	3005	2479

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3732	3714	0	3386	3355	0	2526	2479	0

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



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Utilization factor table for indoor luminaire

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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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.03	0.99	0.95	1.01	0.97	0.93	0.96	0.93	0.90	0.92	0.90	0.87	0.89	0.86	0.84	0.82
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.77	0.74	0.70	0.68
3	0.79	0.70	0.64	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.65	0.61	0.68	0.63	0.59	0.57
4	0.69	0.61	0.54	0.68	0.60	0.53	0.65	0.58	0.52	0.63	0.57	0.52	0.61	0.55	0.51	0.49
5	0.62	0.53	0.46	0.61	0.52	0.46	0.59	0.51	0.45	0.56	0.50	0.45	0.54	0.49	0.44	0.42
6	0.56	0.47	0.40	0.55	0.46	0.40	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.39	0.37
7	0.50	0.42	0.35	0.50	0.41	0.35	0.48	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.34	0.32
8	0.46	0.37	0.32	0.45	0.37	0.31	0.44	0.36	0.31	0.43	0.36	0.31	0.41	0.35	0.31	0.29
9	0.42	0.34	0.28	0.42	0.34	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26
10	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

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Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	314.20	314.64	312.70	307.96	300.83	291.25	278.86	263.74	246.68
90.0	314.20	314.38	312.15	307.87	300.65	291.03	278.64	263.41	245.94
180.0	314.20	311.74	306.37	298.55	288.53	275.08	259.96	242.99	223.30
270.0	314.20	311.35	306.44	298.96	288.80	276.33	260.64	242.91	222.95
360.0	314.20	314.64	312.70	307.96	300.83	291.25	278.86	263.74	246.68
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	227.69	205.98	183.56	159.03	134.07	107.60	81.23	54.68	28.40
90.0	226.96	205.57	183.21	159.50	133.84	107.38	81.09	54.00	28.43
180.0	202.46	179.43	155.52	129.67	104.00	77.89	51.08	25.85	4.84
270.0	201.83	179.38	155.58	129.83	103.10	76.99	49.99	24.77	4.19
360.0	227.69	205.98	183.56	159.03	134.07	107.60	81.23	54.68	28.40
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	5.98	0.35	0.44	0.53	0.62	0.53	0.79	0.97	1.05
90.0	6.50	0.18	0.36	0.45	0.71	1.16	1.43	1.87	2.23
180.0	0.97	0.79	0.97	0.97	1.14	1.23	1.41	1.41	1.49
270.0	0.62	0.71	0.89	1.16	1.25	1.25	1.78	1.69	1.60
360.0	5.98	0.35	0.44	0.53	0.62	0.53	0.79	0.97	1.05
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.05	1.41	1.85	1.93	2.11	2.55	2.64	2.73	1.41
90.0	2.41	3.03	2.94	3.12	3.21	3.39	2.76	1.96	1.07
180.0	1.58	1.76	1.85	2.02	2.20	2.37	2.46	2.11	1.05
270.0	1.69	1.78	2.23	2.32	3.30	3.30	2.32	1.07	0.98
360.0	1.05	1.41	1.85	1.93	2.11	2.55	2.64	2.73	1.41
C/γ(°)	180.0								
0.0	1.05								
90.0	1.07								
180.0	0.00								
270.0	0.00								
360.0	1.05								