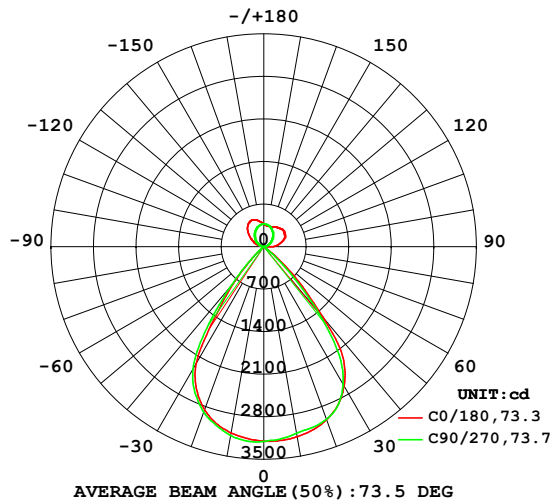


LUMINAIRE PHOTOMETRIC TEST REPORT

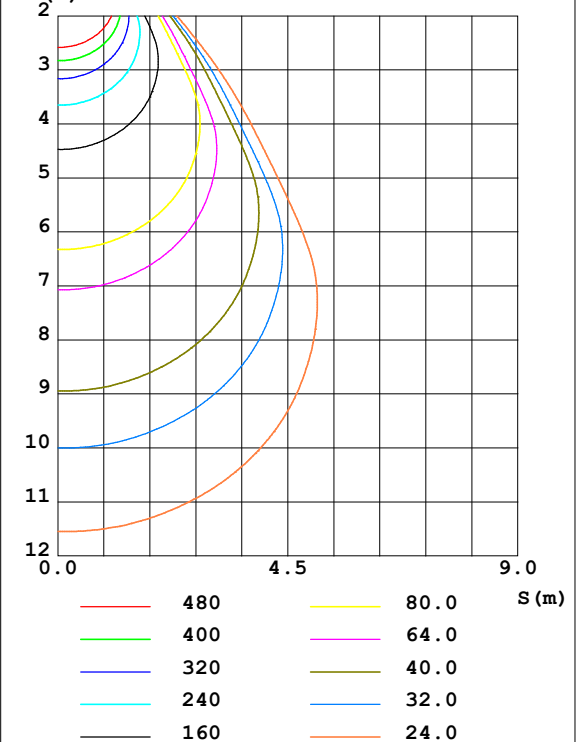
Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.45 lm/W			
MODEL		I _{max} (cd)	3220	S/MH(C0/180)	1.15
NOMINAL POWER(W)	48W	LOR(%)	100.0	S/MH(C90/270)	1.02
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	5801.8	η UP,DN(C0-180)	12.4,40.1
NOMINAL FLUX(lm)	5801.82	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	12.5,35.0
LAMPS INSIDE	1	η up(%)	24.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	75.1	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

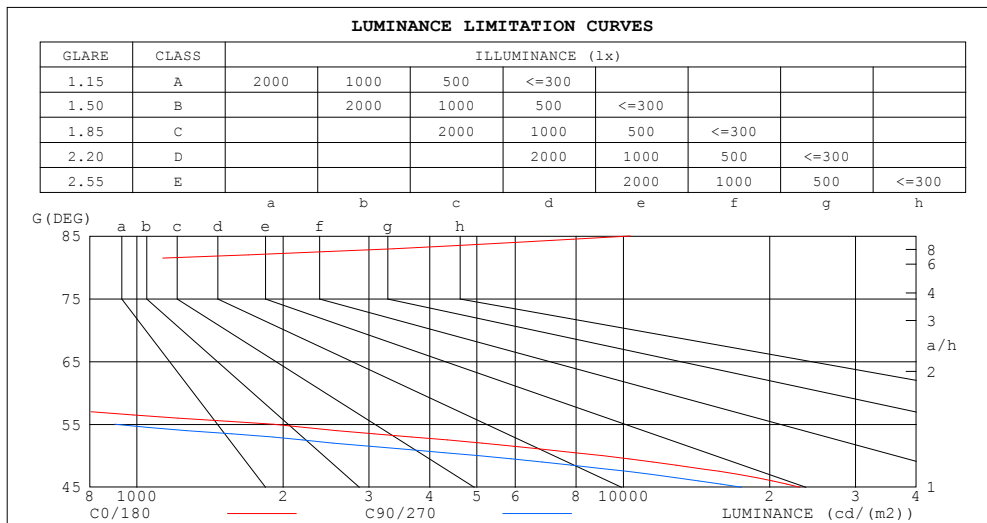
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3175	3143	3117	3116	3112	3141	3153	3183	0- 10	303.0	303.0	5.22,5.22
20	3030	3015	3019	2927	2856	2862	2898	2960	10- 20	863.0	1166	20.1,20.1
30	2644	2715	2612	2533	2224	2296	2331	2495	20- 30	1265	2431	41.9,41.9
40	1516	1996	1351	1644	738.2	1195	833.7	1595	30- 40	1229	3661	63.1,63.1
50	291.1	669.1	161.8	354.2	32.77	181.9	45.41	339.9	40- 50	578.9	4240	73.1,73.1
60	8.783	68.18	10.43	25.97	6.941	7.796	8.127	22.37	50- 60	89.04	4329	74.6,74.6
70	5.023	6.006	6.895	5.902	5.119	4.700	5.034	5.264	60- 70	9.222	4338	74.8,74.8
80	3.312	4.085	4.271	4.257	4.275	3.151	2.795	4.047	70- 80	4.809	4343	74.9,74.9
90	136.9	79.66	1.868	3.616	3.525	2.861	0.4573	101.3	80- 90	17.12	4360	75.1,75.1
100	259.7	178.1	20.59	52.02	31.98	79.81	32.17	193.5	90-100	78.25	4438	76.5,76.5
110	352.6	245.3	67.66	137.5	143.7	156.2	81.21	242.7	100-110	149.2	4587	79.1,79.1
120	396.7	283.6	119.6	221.4	231.3	238.6	132.9	270.1	110-120	204.8	4792	82.6,82.6
130	418.4	302.2	176.7	315.6	328.0	324.8	186.5	290.5	120-130	235.5	5028	86.7,86.7
140	399.2	309.2	235.1	388.3	418.7	388.1	241.3	305.2	130-140	242.0	5270	90.8,90.8
150	375.6	316.3	290.3	427.7	473.5	420.9	292.4	314.6	140-150	219.0	5489	94.6,94.6
160	351.8	328.3	334.4	430.2	473.6	421.1	335.9	328.9	150-160	171.0	5660	97.5,97.5
170	349.1	345.7	363.8	407.8	426.1	398.9	364.9	348.7	160-170	106.5	5766	99.4,99.4
180	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	170-180	35.75	5802	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10332	731
80	381	492
75	304	425
70	294	403
65	311	398
60	351	417
55	1907	901
50	9057	5033
45	23073	17500

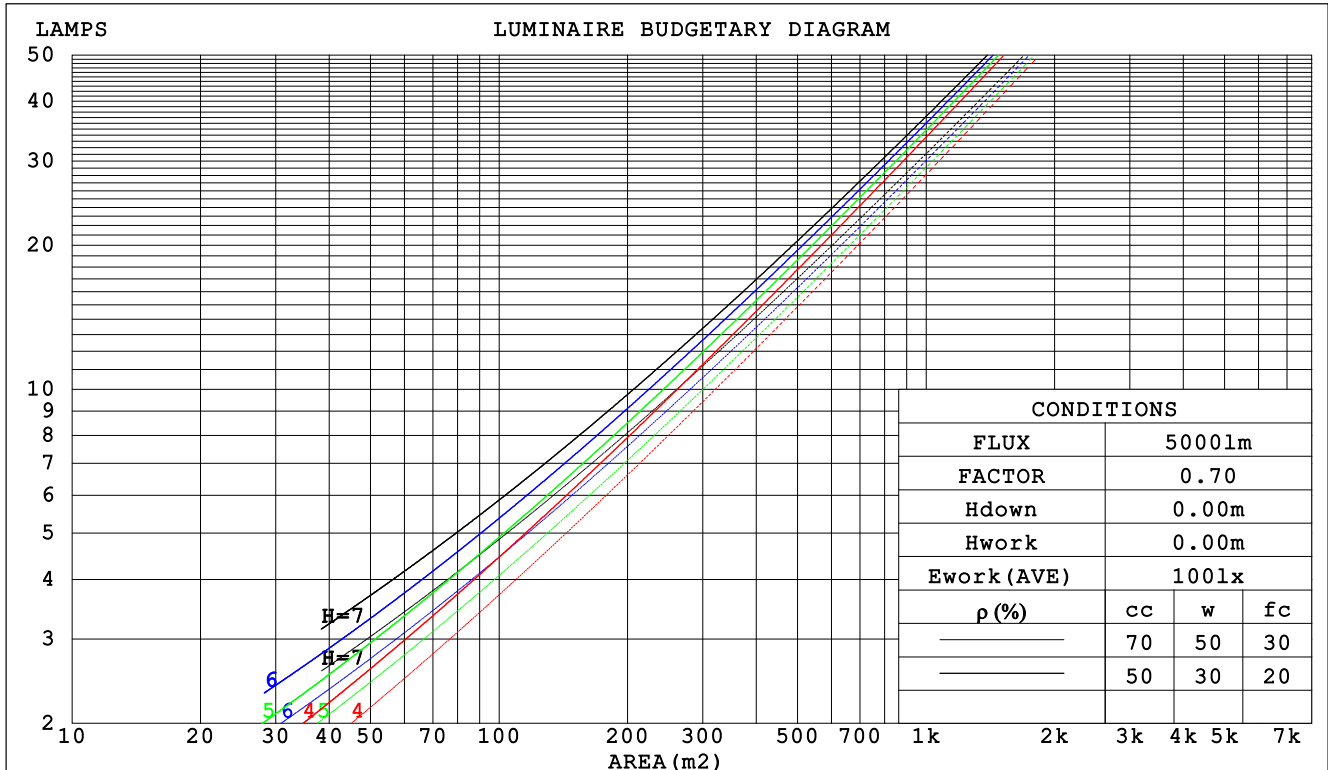
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.13	1.13	1.13	1.08	1.08	1.08	.97	.97	.97	.88	.88	.88	.79	.79	.79	.75
1.0	1.03	1.00	.97	.98	.96	.94	.90	.88	.86	.82	.80	.79	.75	.74	.73	.69
2.0	.94	.89	.85	.90	.86	.82	.83	.79	.77	.76	.74	.71	.70	.68	.66	.63
3.0	.86	.80	.75	.82	.77	.73	.76	.72	.69	.70	.67	.65	.65	.63	.61	.58
4.0	.78	.72	.67	.76	.70	.65	.70	.66	.62	.65	.62	.59	.61	.58	.55	.53
5.0	.72	.65	.60	.70	.63	.59	.65	.60	.56	.61	.57	.53	.56	.53	.51	.48
6.0	.66	.59	.55	.64	.58	.53	.60	.55	.51	.56	.52	.49	.53	.49	.47	.44
7.0	.61	.54	.50	.59	.53	.49	.56	.50	.47	.52	.48	.45	.49	.46	.43	.41
8.0	.57	.50	.45	.55	.49	.44	.52	.47	.43	.49	.44	.41	.46	.42	.40	.38
9.0	.53	.46	.42	.51	.45	.41	.48	.43	.39	.46	.41	.38	.43	.39	.37	.35
10.0	.49	.43	.38	.48	.42	.38	.45	.40	.36	.43	.38	.35	.40	.37	.34	.32



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm					
NAME: 4FT			TYPE:3000K 2.8		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.:1.12*0.045		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.212	.121	.038	.198	.113	.036	.171	.098	.031	.146	.084	.027	.124	.072	.023		
2.0	.201	.110	.034	.189	.104	.032	.165	.092	.028	.143	.080	.025	.122	.069	.022		
3.0	.191	.101	.030	.179	.096	.029	.158	.085	.026	.138	.075	.023	.119	.066	.020		
4.0	.181	.094	.028	.170	.089	.026	.151	.080	.024	.133	.071	.021	.116	.063	.019		
5.0	.171	.087	.025	.162	.083	.024	.144	.075	.022	.127	.067	.020	.112	.060	.018		
6.0	.162	.081	.023	.154	.078	.022	.137	.070	.020	.122	.063	.019	.108	.057	.017		
7.0	.154	.076	.022	.146	.073	.021	.131	.066	.019	.117	.060	.017	.104	.054	.016		
8.0	.147	.072	.020	.139	.069	.019	.125	.063	.018	.112	.057	.016	.100	.051	.015		
9.0	.140	.068	.019	.133	.065	.018	.120	.059	.017	.108	.054	.015	.096	.049	.014		
10.0	.133	.064	.018	.127	.061	.017	.115	.056	.016	.104	.051	.015	.093	.047	.013		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.380	.380	.380	.325	.325	.325	.222	.222	.222	.127	.127	.127	.041	.041	.041	
1.0	.364	.348	.333	.312	.299	.287	.213	.205	.198	.123	.119	.115	.039	.038	.037	
2.0	.352	.325	.301	.302	.279	.260	.207	.193	.182	.119	.112	.106	.038	.036	.035	
3.0	.342	.307	.279	.294	.265	.242	.202	.184	.170	.116	.107	.100	.037	.035	.033	
4.0	.334	.294	.263	.287	.254	.228	.197	.177	.161	.114	.104	.095	.037	.034	.031	
5.0	.327	.283	.251	.281	.245	.218	.193	.171	.154	.112	.100	.091	.036	.033	.030	
6.0	.320	.275	.242	.275	.238	.211	.190	.166	.149	.110	.098	.089	.036	.032	.029	
7.0	.314	.268	.235	.270	.232	.205	.187	.163	.145	.109	.096	.086	.035	.031	.029	
8.0	.309	.262	.230	.266	.227	.200	.184	.160	.142	.107	.094	.085	.035	.031	.028	
9.0	.304	.257	.226	.262	.223	.197	.182	.157	.140	.106	.093	.083	.034	.030	.028	
10.0	.300	.253	.223	.258	.220	.194	.179	.155	.138	.105	.092	.082	.034	.030	.027	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm											
NAME: 4FT					TYPE:3000K 2.8			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:1.12*0.045			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	2H	20.2	21.1	20.8	21.7	22.3	19.5	20.4	20.0	20.9	21.5
	3H	19.9	20.8	20.6	21.3	22.0	19.2	20.0	19.8	20.6	21.3
	4H	19.8	20.6	20.4	21.2	21.9	19.1	19.8	19.7	20.4	21.1
	6H	19.7	20.4	20.3	21.0	21.7	18.9	19.6	19.6	20.3	21.0
	8H	19.6	20.3	20.3	20.9	21.7	18.9	19.5	19.5	20.2	20.9
	12H	19.6	20.3	20.3	20.9	21.7	18.8	19.4	19.5	20.1	20.8
4H	2H	19.8	20.6	20.5	21.2	21.9	19.1	19.9	19.7	20.5	21.2
	3H	19.6	20.2	20.2	20.9	21.6	18.8	19.5	19.5	20.1	20.9
	4H	19.4	20.0	20.1	20.7	21.4	18.7	19.3	19.4	19.9	20.7
	6H	19.3	19.8	20.0	20.5	21.3	18.5	19.0	19.3	19.7	20.6
	8H	19.2	19.7	19.9	20.4	21.2	18.5	18.9	19.2	19.6	20.5
	12H	19.3	19.7	20.0	20.4	21.3	18.4	18.8	19.1	19.5	20.4
8H	4H	19.2	19.7	19.9	20.4	21.2	18.5	18.9	19.2	19.6	20.5
	6H	19.0	19.4	19.8	20.2	21.1	18.3	18.7	19.1	19.4	20.3
	8H	19.0	19.3	19.8	20.1	21.0	18.2	18.6	19.0	19.3	20.3
	12H	19.1	19.4	19.9	20.2	21.1	18.2	18.4	19.0	19.2	20.2
12H	4H	19.1	19.5	19.9	20.3	21.1	18.4	18.8	19.1	19.5	20.4
	6H	19.0	19.3	19.7	20.1	21.0	18.2	18.6	19.0	19.3	20.2
	8H	18.9	19.2	19.7	20.0	20.9	18.2	18.4	19.0	19.2	20.2
Variations with the observer position at spacings:											
S = 1.0H	+ 2.8 / -14.8					+ 2.8 / -15.9					
1.5H	+ 3.0 / - 9.2					+ 3.2 / -12.6					
2.0H	+ 6.3 / -13.5					+ 5.9 / -15.5					

CIE Pub.117 Corrected 5802 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.1)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

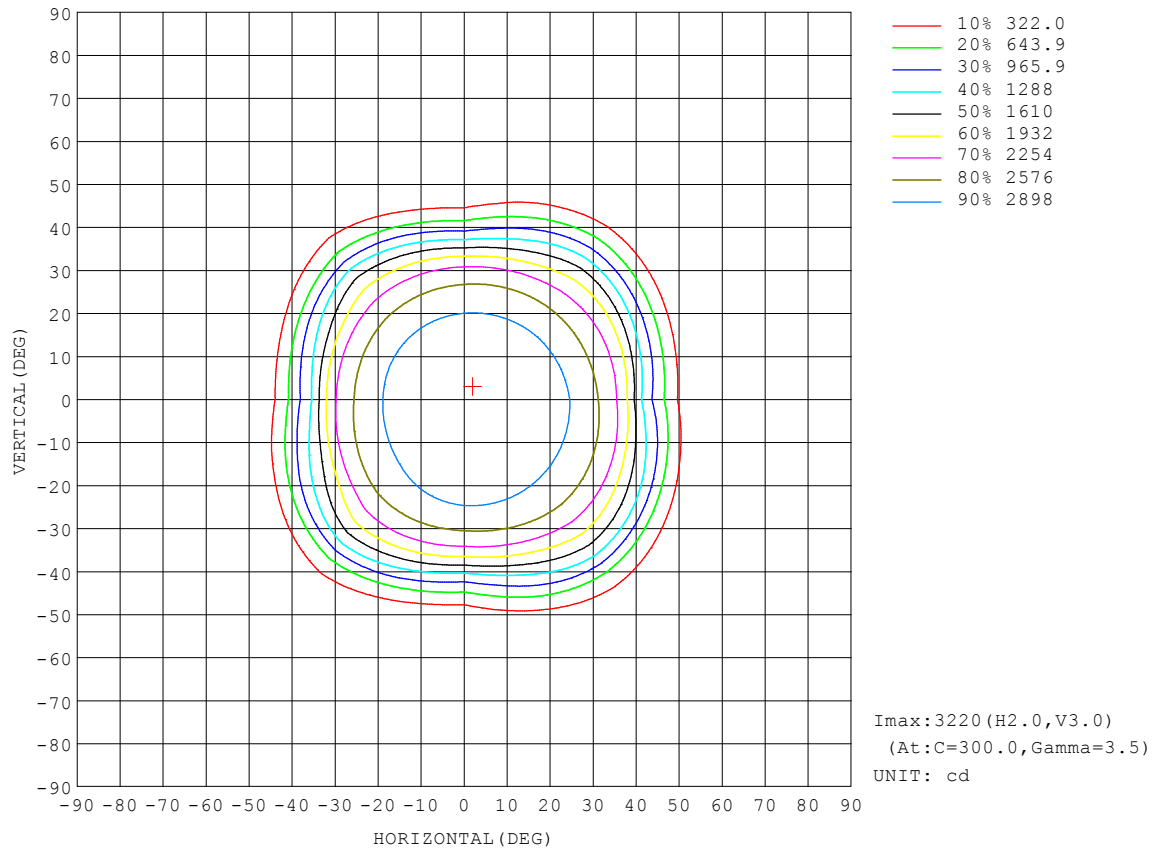
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	60	56	67	60	55	65	58	54	49
0.80	77	69	64	75	68	63	72	66	62	55
1.00	83	75	70	81	74	69	77	72	67	60
1.25	88	81	76	86	79	75	81	76	72	64
1.50	92	85	80	89	83	79	84	79	75	66
2.00	97	90	86	93	88	84	87	83	79	68
2.50	99	94	89	95	91	87	88	85	82	69
3.00	101	96	92	97	93	89	90	87	84	70
4.00	104	100	97	100	96	93	92	89	87	72
5.00	106	102	99	101	98	96	93	91	89	73
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

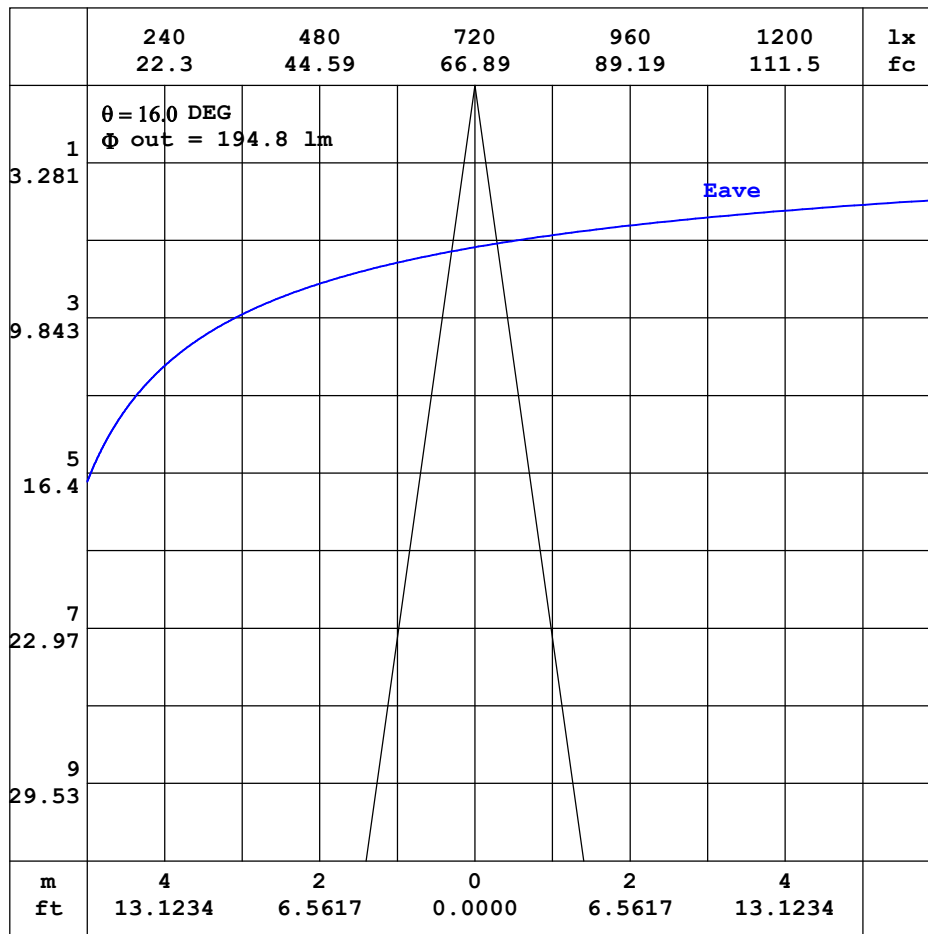


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



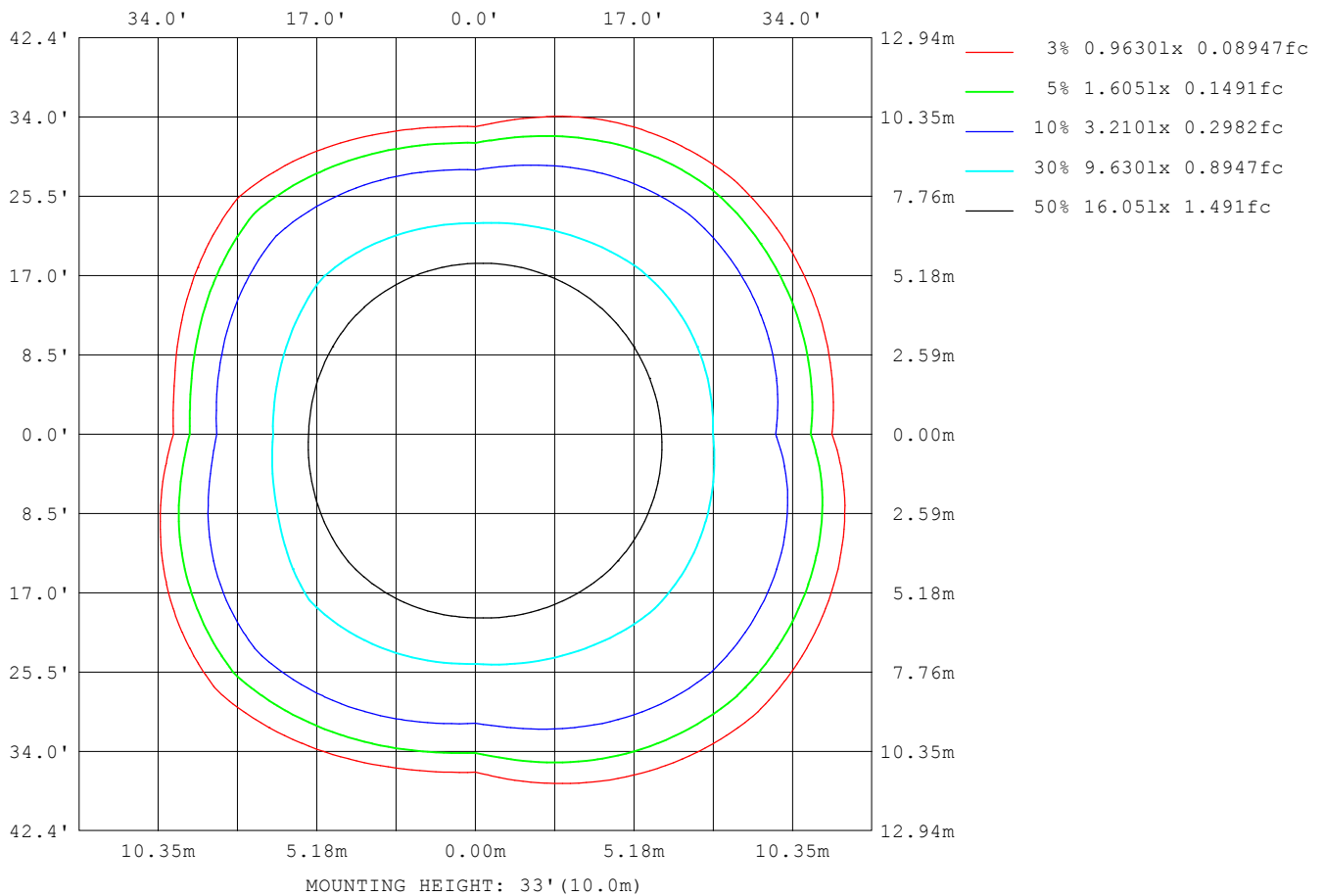
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

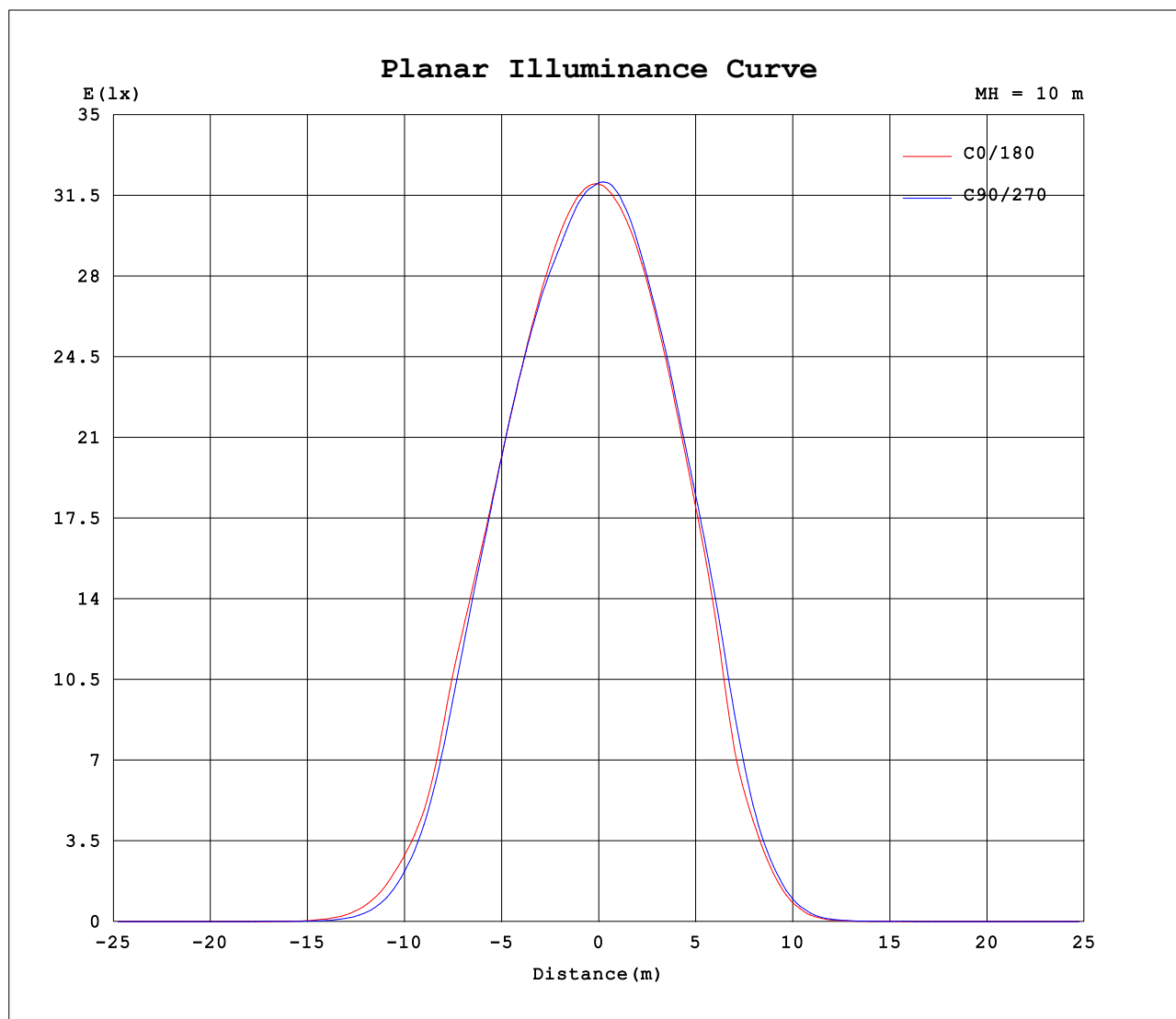
AvgL	cd/m2
L_0~180 (65) av	293
L_0~180 (75) av	331
L_0~180 (85) av	5608
L_90~270 (65) av	350
L_90~270 (75) av	360
L_90~270 (85) av	608
L_45 (65) av	375
L_45 (75) av	349
L_45 (85) av	2300

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm																	
NAME: 4FT									TYPE:3000K 2.8						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:1.12*0.045						Shielding Angle:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3199	3199	3199	3199	3199	3199	3199	3199	3200	3200	3200	3201	3201	3202	3202	3203	3203	3204	3204
5	3200	3199	3197	3195	3193	3192	3190	3189	3187	3186	3184	3183	3182	3180	3179	3178	3177	3176	3175
10	3175	3171	3167	3163	3160	3156	3153	3149	3146	3143	3139	3136	3133	3129	3126	3124	3121	3119	3117
15	3121	3113	3106	3099	3093	3088	3083	3079	3076	3073	3074	3075	3076	3077	3079	3080	3082	3082	3082
20	3030	3028	3025	3023	3021	3020	3018	3017	3016	3015	3017	3019	3020	3022	3023	3023	3023	3022	3019
25	2882	2886	2889	2892	2895	2897	2899	2900	2901	2901	2902	2903	2903	2902	2901	2898	2895	2891	2886
30	2644	2661	2675	2687	2697	2705	2711	2714	2716	2715	2709	2700	2690	2679	2667	2654	2640	2626	2612
35	2296	2332	2362	2388	2408	2423	2433	2438	2438	2432	2408	2381	2350	2316	2282	2247	2213	2180	2150
40	1516	1625	1720	1801	1868	1921	1961	1986	1998	1996	1942	1877	1804	1725	1644	1564	1486	1414	1351
45	816	954	1074	1177	1262	1330	1381	1413	1429	1427	1360	1280	1189	1091	990	888	790	699	619
50	291	377	452	515	568	610	642	662	671	669	627	577	520	459	395	331	270	213	162
55	54.7	94.5	129	159	185	205	220	231	237	238	221	200	176	151	124	97.3	71.4	47.2	25.8
60	8.78	21.2	32.1	41.6	49.6	56.2	61.4	65.1	67.4	68.2	64.1	58.8	52.5	45.7	38.4	30.9	23.6	16.7	10.4
65	6.58	7.63	8.56	9.39	10.1	10.7	11.2	11.6	11.8	12.0	11.8	11.6	11.2	10.8	10.4	9.89	9.39	8.89	8.40
70	5.02	5.14	5.25	5.36	5.47	5.58	5.69	5.80	5.90	6.01	6.14	6.27	6.40	6.52	6.63	6.72	6.80	6.86	6.90
75	3.93	4.05	4.17	4.28	4.39	4.50	4.60	4.69	4.79	4.88	4.98	5.07	5.16	5.24	5.31	5.38	5.43	5.47	5.50
80	3.31	3.43	3.53	3.63	3.73	3.81	3.89	3.96	4.03	4.08	4.13	4.16	4.19	4.22	4.24	4.25	4.26	4.27	4.27
85	45.0	38.5	32.4	26.8	21.8	17.2	13.1	9.54	6.46	3.89	2.82	2.85	2.87	2.89	2.89	2.89	2.89	2.88	3.18
90	137	132	126	120	114	108	101	94.2	87.0	79.7	70.2	60.6	51.1	41.7	32.6	23.9	15.8	8.41	1.87
95	210	206	201	195	188	181	172	163	153	141	126	109	92.8	76.2	60.0	44.3	29.6	16.0	3.96
100	260	254	248	241	233	224	214	203	191	178	160	140	121	102	83.0	65.2	48.6	33.6	20.6
105	308	301	294	286	276	266	255	242	229	215	194	173	151	130	109	90.0	72.2	56.4	43.0
110	353	344	335	325	314	302	289	275	261	245	223	201	178	156	135	115	96.9	81.0	67.7
115	385	375	364	352	339	326	312	298	282	266	244	222	199	178	157	138	120	105	93.2
120	397	387	376	365	353	340	327	313	299	284	262	240	219	198	179	160	144	131	120
125	413	401	389	377	364	351	338	324	310	295	275	255	235	216	198	182	168	156	148
130	418	406	393	381	368	355	342	329	316	302	284	265	248	231	216	203	191	183	177
135	414	402	389	377	365	353	341	329	318	306	290	275	260	246	234	223	215	209	206
140	399	388	378	367	357	347	337	328	318	309	296	284	272	262	253	245	239	236	235
145	388	378	369	360	351	343	335	327	319	312	302	293	285	277	271	266	263	262	264
150	376	367	360	352	345	339	332	327	321	316	309	303	298	293	289	287	287	288	290
155	361	355	350	345	340	335	331	328	324	322	317	314	311	309	307	307	308	310	314
160	352	348	344	341	338	335	333	331	329	328	326	325	324	324	324	325	327	330	334
165	347	345	343	341	339	338	337	337	336	336	336	336	337	338	340	342	344	347	351
170	349	348	346	346	345	345	344	345	345	346	347	348	349	351	353	355	358	361	364
175	357	357	356	355	355	355	355	356	356	357	358	359	360	362	364	365	367	369	371
180	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	3205	3205	3206	3206	3206	3206	3206	3206	3206	3206	3205	3204	3203	3202	3201	3200	3199	3199	3198
5	3175	3174	3174	3174	3173	3173	3173	3173	3172	3171	3170	3169	3168	3167	3167	3167	3167	3167	3169
10	3116	3116	3115	3115	3115	3115	3115	3115	3116	3115	3114	3113	3112	3112	3112	3112	3112	3112	3115
15	3077	3072	3065	3059	3052	3045	3039	3032	3026	3023	3021	3018	3017	3016	3015	3015	3015	3015	3017
20	3012	3003	2994	2983	2972	2961	2950	2938	2927	2917	2907	2898	2889	2881	2874	2867	2861	2856	2853
25	2878	2868	2858	2847	2835	2822	2808	2793	2777	2757	2737	2716	2696	2676	2658	2640	2624	2610	2606
30	2607	2601	2596	2589	2582	2573	2562	2549	2533	2499	2463	2426	2388	2351	2315	2281	2251	2224	2221
35	2156	2165	2174	2182	2188	2189	2185	2175	2156	2068	1974	1875	1775	1676	1582	1495	1418	1355	1381
40	1376	1410	1450	1493	1535	1574	1608	1632	1644	1556	1456	1349	1237	1125	1015	912	818	738	762
45	638	668	707	750	796	840	881	915	940	875	800	719	632	545	458	375	299	233	243
50	171	187	208	233	260	287	313	336	354	326	293	256	216	176	136	98.2	63.3	32.8	39.9
55	29.9	37.1	46.6	57.7	69.9	82.4	94.5	106	115	107	96.3	84.5	71.8	58.5	45.1	32.1	20.0	9.19	10.4
60	10.5	11.3	12.8	14.7	16.9	19.3	21.7	24.0	26.0	24.6	22.8	20.8	18.5	16.2	13.8	11.4	9.07	6.94	6.43
65	8.21	8.05	7.92	7.80	7.70	7.60	7.52	7.44	7.35	7.17	6.98	6.79	6.61	6.43	6.26	6.10	5.95	5.82	5.77
70	6.84	6.76	6.67	6.56	6.44	6.31	6.18	6.04	5.90	5.80	5.70	5.61	5.52	5.43	5.35	5.27	5.19	5.12	5.05
75	5.47	5.43	5.37	5.31	5.25	5.18	5.10	5.03	4.95	4.92	4.89	4.86	4.83	4.80	4.77	4.73	4.69	4.64	4.55
80	4.28	4.28	4.28	4.28	4.27	4.27	4.27	4.26	4.26	4.28	4.30	4.32	4.33	4.34	4.34	4.33	4.31	4.27	4.17
85	3.23	3.29	3.36	3.44	3.53	3.61	3.70	3.79	3.87	3.90	3.93	3.95	3.96	3.96	3.94	3.92	3.89	3.85	3.77
90	1.72	1.78	1.85	1.93	2.00	2.06	2.12	2.16	3.62	3.67	3.71	3.73	3.73	3.71	3.68	3.64	3.59	3.53	3.50
95	0.36	0.28	0.47	0.68	0.89	1.60	4.23	7.17	10.2	9.73	9.18	8.60	8.05	7.56	7.18	6.95	6.92	7.14	9.33
100	19.2	19.7	21.9	25.5	30.1	35.4	41.0	46.7	52.0	50.2	47.8	45.2	42.4	39.6	37.0	34.8	33.0	32.0	36.9
105	43.8	46.9	52.0	58.7	66.6	75.3	84.2	93.1	101	101	99.8	98.0	95.8	93.4	90.9	88.5	86.4	84.7	88.7
110	68.9	72.8	78.8	86.6	95.8	106	117	127	137	140	142	143	144	144	144	144	144	144	146
115	95.9	101	109	118	129	141	153	166	177	181	184	186	187	188	188	189	188	188	191
120	124	132	142	153	166	180	194	208	221	225	228	230	232	233	233	232	232	231	234
125	155	165	177	191	206	222	238	254	269	274	277	279	281	281	281	281	280	279	282
130	186	198	213	229	246	264	282	299	316	321	325	328	330	331	331	331	329	328	331
135	217	231	247	264	282	301	320	338	356	363	368	372	375	377	378	378	377	376	378
140	247	262	278	296	315	334	353	371	388	397	403	409	413	416	418	419	419	419	419
145	276	291	307	324	342	360	378	396	413	422	430	437	442	446	449	451	452	452	451
150	302	316	331	346	363	379	396	412	428	437	446	453	460	465	469	472	473	473	472
155	325	336	349	363	377	391	406	419	433	442	451	459	465	471	475	478	481	481	479
160	343	353	363	374	386	397	408	420	430	438	446	453	459	464	468	471	473	474	471
165	358	365	373	381	389	397	406	414	421	427	433	438	442	446	449	451	453	453	451
170	368	373	378	383	388	393	398	403	408	411	415	418	420	422	424	425	426	426	425
175	374	376	379	381	383	386	388	390	392	394	395	396	397	397	398	398	398	398	397
180	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm																			
NAME: 4FT										TYPE:3000K 2.8					WEIGHT:				
SPEC.:										DIM.:					SERIAL No.:				
MFR.: EVERFINE										SUR.:1.12*0.045					Shielding Angle:				

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	3198	3198	3198	3199	3199	3199	3199	3200	3200	3201	3201	3202	3202	3203	3203	3204	3204	3205	3205
5	3171	3174	3177	3180	3183	3186	3189	3193	3195	3197	3200	3202	3204	3206	3208	3209	3211	3212	3214
10	3118	3121	3124	3128	3131	3135	3138	3141	3143	3144	3146	3147	3148	3149	3150	3152	3153	3157	3160
15	3019	3021	3024	3026	3029	3032	3034	3037	3037	3037	3037	3037	3037	3037	3038	3039	3041	3046	3051
20	2852	2851	2851	2852	2854	2856	2859	2862	2864	2867	2871	2874	2878	2883	2887	2893	2898	2904	2910
25	2604	2604	2605	2608	2611	2616	2621	2627	2630	2633	2636	2640	2644	2649	2654	2660	2667	2677	2688
30	2222	2226	2234	2244	2255	2268	2282	2296	2299	2301	2304	2306	2309	2313	2318	2324	2331	2346	2361
35	1420	1470	1528	1591	1656	1721	1783	1839	1825	1805	1781	1753	1725	1697	1672	1652	1638	1676	1721
40	799	847	903	963	1026	1087	1145	1195	1160	1117	1070	1020	971	925	885	854	834	899	975
45	264	293	328	366	407	447	485	519	492	461	428	393	360	330	305	287	278	335	401
50	51.9	67.5	85.9	106	127	147	166	182	168	151	133	114	95.5	78.4	63.7	52.4	45.4	71.0	101
55	13.2	17.1	21.9	27.3	32.9	38.6	43.8	48.5	44.3	39.5	34.3	29.0	23.9	19.3	15.4	12.5	11.0	19.8	29.8
60	6.13	6.02	6.08	6.27	6.56	6.93	7.35	7.80	7.59	7.41	7.25	7.15	7.12	7.18	7.36	7.67	8.13	9.79	11.6
65	5.73	5.72	5.71	5.72	5.75	5.78	5.82	5.87	5.92	5.98	6.04	6.10	6.17	6.23	6.29	6.35	6.40	6.42	6.44
70	4.98	4.92	4.86	4.82	4.78	4.74	4.72	4.70	4.72	4.74	4.77	4.81	4.85	4.89	4.94	4.99	5.03	5.07	5.11
75	4.45	4.35	4.25	4.15	4.05	3.96	3.88	3.80	3.76	3.74	3.72	3.72	3.72	3.73	3.76	3.78	3.82	3.89	3.97
80	4.06	3.93	3.80	3.67	3.53	3.40	3.27	3.15	3.06	2.98	2.91	2.85	2.81	2.78	2.77	2.77	2.80	2.92	3.06
85	3.69	3.60	3.49	3.39	3.28	3.17	3.05	2.94	2.83	2.70	2.59	2.48	2.36	2.24	2.12	2.00	1.88	1.75	1.61
90	3.47	3.42	3.37	3.30	3.22	3.12	3.00	2.86	2.70	2.53	2.36	2.19	2.02	1.84	1.65	1.45	1.24	1.02	0.79
95	11.7	14.2	16.8	19.3	21.8	24.0	25.9	27.5	24.0	20.3	16.7	13.5	10.9	9.19	8.65	9.54	12.1	24.8	39.1
100	42.5	48.4	54.6	60.6	66.4	71.7	76.2	79.8	73.7	66.8	59.5	52.3	45.6	39.9	35.4	32.7	32.2	45.3	60.7
105	93.1	97.7	102	107	111	114	117	119	111	102	92.9	84.0	75.6	68.1	62.1	57.9	56.0	67.8	81.9
110	149	152	154	156	157	158	157	156	146	136	125	114	105	95.9	88.8	83.8	81.2	92.8	107
115	193	196	197	199	199	199	198	196	184	172	160	148	136	126	117	111	107	117	130
120	237	239	241	243	243	243	241	239	226	212	198	184	171	159	148	139	133	141	151
125	284	287	288	289	290	289	287	283	269	253	238	222	206	192	179	168	160	165	174
130	333	335	336	336	335	333	330	325	309	292	275	258	240	224	210	197	186	190	196
135	379	379	379	378	375	371	366	360	343	326	308	290	272	255	239	225	214	215	220
140	419	418	416	413	408	403	396	388	372	354	336	318	300	283	267	253	241	241	244
145	450	447	444	439	433	426	418	409	393	376	359	341	324	308	293	279	267	266	266
150	470	466	461	455	448	440	431	421	406	391	375	360	344	330	316	303	292	289	288
155	476	472	466	459	452	444	434	425	412	399	386	373	360	347	336	325	316	312	310
160	468	464	458	452	445	438	430	421	411	401	391	381	371	361	352	344	336	332	329
165	448	445	441	436	430	425	418	412	405	398	391	384	377	371	364	358	353	349	346
170	423	420	417	414	411	407	403	399	395	391	387	383	379	375	372	368	365	362	360
175	396	394	393	391	389	388	386	384	383	381	380	379	377	376	375	373	372	371	370
180	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.6V I:0.4400A P:49.40W PF:0.9900 Freq:60.00Hz Lamp Flux:5801.82x1 lm																	
NAME: 4FT									TYPE:3000K 2.8						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:1.12*0.045						Shielding Angle:		

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3206	3206	3206	3206	3206	3206	3206	3206	3205	3205	3204	3203	3202	3201	3200				
5	3215	3216	3217	3217	3218	3218	3218	3217	3216	3215	3213	3211	3209	3206	3204				
10	3164	3167	3171	3174	3177	3180	3183	3184	3184	3184	3184	3183	3181	3180	3177				
15	3057	3063	3070	3076	3083	3089	3095	3099	3103	3107	3110	3113	3116	3118	3120				
20	2917	2924	2931	2938	2945	2953	2960	2968	2975	2983	2991	2998	3006	3014	3022				
25	2699	2710	2723	2735	2748	2761	2774	2786	2798	2810	2822	2834	2846	2858	2870				
30	2378	2396	2415	2435	2454	2474	2495	2512	2529	2546	2563	2579	2596	2612	2628				
35	1771	1826	1884	1943	2003	2062	2118	2153	2184	2211	2234	2254	2270	2282	2291				
40	1060	1150	1244	1338	1430	1516	1595	1628	1650	1662	1664	1655	1636	1606	1567				
45	473	550	628	706	782	853	917	942	958	965	963	952	932	902	864				
50	134	169	205	242	277	310	340	351	359	362	361	355	346	332	313				
55	40.6	52.0	63.4	74.6	85.2	94.8	103	105	104	103	98.9	93.5	86.4	77.6	67.0				
60	13.4	15.2	17.0	18.7	20.1	21.4	22.4	22.2	21.8	20.9	19.8	18.3	16.4	14.2	11.7				
65	6.45	6.45	6.46	6.46	6.46	6.46	6.46	6.47	6.48	6.49	6.51	6.52	6.53	6.55	6.56				
70	5.14	5.17	5.20	5.22	5.24	5.26	5.26	5.26	5.25	5.24	5.22	5.19	5.16	5.12	5.07				
75	4.05	4.12	4.20	4.27	4.34	4.39	4.44	4.44	4.42	4.39	4.35	4.29	4.22	4.14	4.04				
80	3.21	3.37	3.52	3.67	3.81	3.94	4.05	4.06	4.06	4.02	3.97	3.88	3.78	3.65	3.49				
85	10.1	13.1	16.3	19.6	22.9	26.2	29.4	31.7	33.9	35.9	37.8	39.5	41.1	42.6	43.9				
90	30.9	42.6	54.5	66.6	78.6	90.3	101	108	115	120	125	129	132	135	136				
95	54.7	71.2	88.3	106	123	140	156	166	176	184	191	197	202	206	209				
100	77.7	96.1	115	135	155	175	193	206	216	226	235	242	248	253	257				
105	98.0	116	134	154	174	194	213	227	240	252	263	274	283	292	300				
110	123	141	160	180	201	222	243	257	272	285	298	310	322	333	343				
115	145	163	181	201	221	242	263	278	293	307	321	335	348	361	373				
120	164	179	195	213	232	251	270	285	299	313	328	342	356	369	383				
125	185	198	213	229	246	264	282	296	311	325	339	354	368	383	398				
130	205	216	228	242	258	274	290	304	317	330	344	359	373	388	403				
135	226	235	245	257	269	283	298	309	321	333	346	359	372	386	400				
140	248	254	262	272	282	293	305	314	323	333	343	354	365	376	387				
145	268	272	278	284	292	300	309	316	324	332	340	349	358	367	377				
150	289	290	293	297	302	308	315	319	325	331	337	344	351	359	367				
155	309	309	310	311	314	317	321	324	327	331	335	339	344	349	355				
160	327	326	325	326	326	327	329	330	331	333	335	338	341	344	348				
165	344	342	340	339	339	338	338	338	338	339	339	340	342	343	345				
170	358	356	354	352	351	350	349	348	347	347	347	347	347	348	348				
175	368	367	366	365	363	362	361	361	360	359	359	358	358	358	358				
180	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: