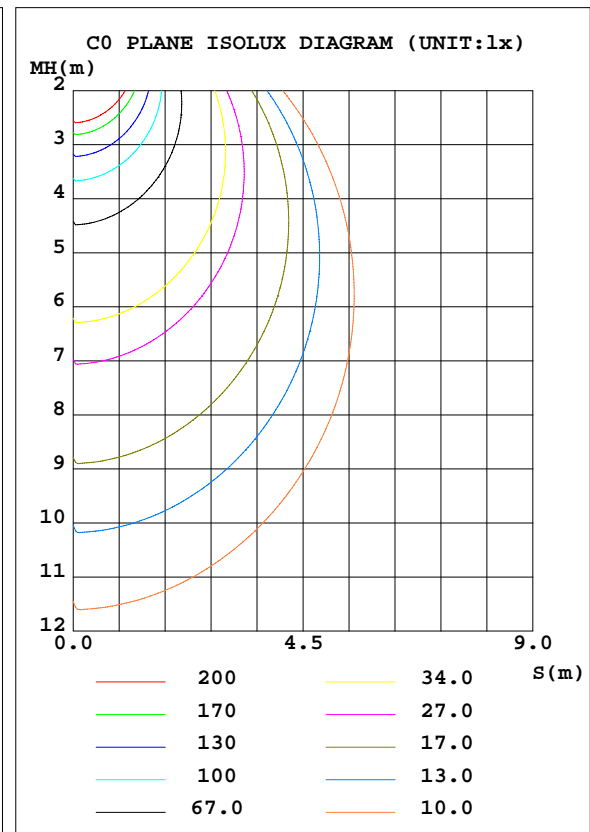
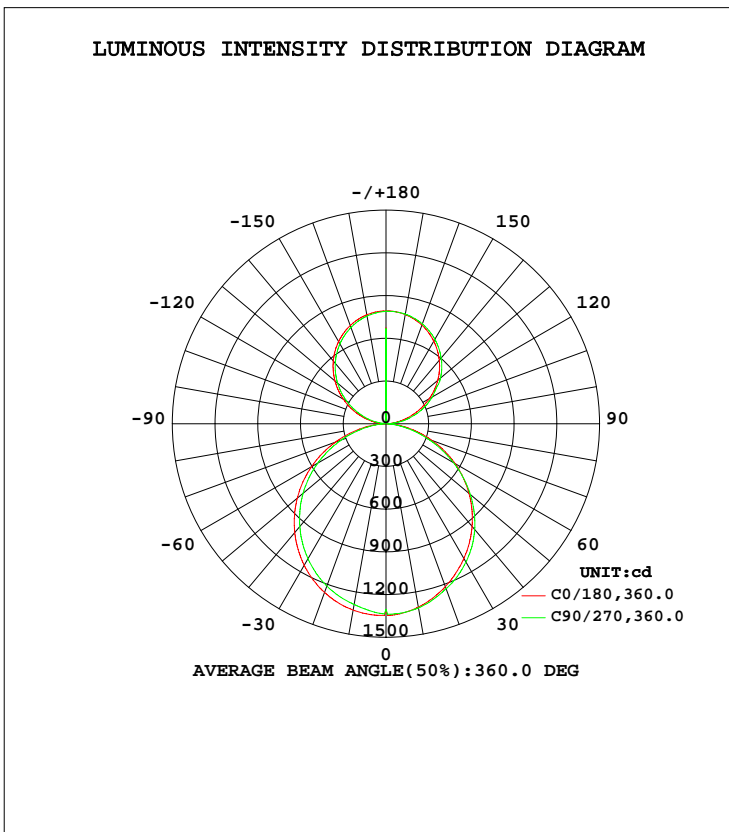


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.49 lm/W			
MODEL	TS-AS1-4FT50W-L-TCP	Imax(cd)	1347	S/MH(C0/180)	1.30
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5950.7	η UP, DN(C0-180)	20.0,30.9
NOMINAL FLUX(lm)	5950.72	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	18.0,31.1
LAMPS INSIDE	1	η up(%)	38.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	62.0	CIBSE SHR MAX	1.35



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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

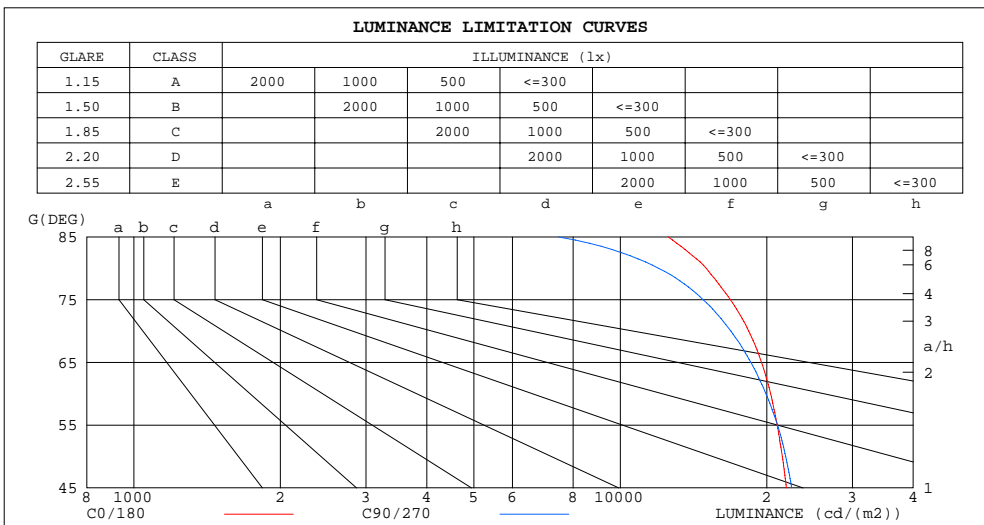
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	1308	1311	1313	1312	1329	1297	1289	1292	0- 10	126.0	126.0	2.12,2.12
20	1218	1230	1234	1233	1261	1230	1213	1210	10- 20	358.6	484.6	8.14,8.14
30	1093	1120	1123	1109	1148	1117	1095	1092	20- 30	540.9	1026	17.2,17.2
40	940.4	966.4	969.0	953.5	997.3	968.9	941.7	938.0	30- 40	649.8	1675	28.2,28.2
50	761.1	772.0	773.2	770.0	813.7	789.7	760.3	756.6	40- 50	670.2	2346	39.4,39.4
60	560.1	551.9	547.9	556.8	604.6	586.6	553.8	550.4	50- 60	598.6	2944	49.5,49.5
70	345.3	322.8	317.4	323.9	377.7	364.2	334.2	330.4	60- 70	444.8	3389	57,57
80	143.4	119.7	114.5	116.5	158.5	150.7	127.6	124.3	70- 80	243.0	3632	61,61
90	7.066	9.127	7.755	8.279	7.936	10.97	9.129	9.216	80- 90	59.10	3691	62,62
100	89.95	119.5	121.3	122.2	93.58	64.00	60.60	69.15	90-100	40.87	3732	62.7,62.7
110	215.4	247.7	250.8	248.5	217.8	190.2	188.4	188.2	100-110	163.2	3895	65.5,65.5
120	350.3	371.3	375.6	377.3	346.4	320.3	319.3	321.7	110-120	280.3	4175	70.2,70.2
130	474.6	495.6	500.2	496.8	467.9	444.4	444.1	447.5	120-130	365.9	4541	76.3,76.3
140	582.4	598.9	603.0	600.1	576.5	554.5	554.6	558.4	130-140	406.3	4948	83.1,83.1
150	671.1	681.8	686.0	684.4	666.6	646.7	647.9	651.6	140-150	390.8	5338	89.7,89.7
160	737.8	742.8	746.8	746.4	734.4	718.2	720.0	723.9	150-160	323.8	5662	95.2,95.2
170	779.4	778.6	782.2	782.8	777.3	765.7	768.4	771.4	160-170	213.7	5876	98.7,98.7
180	792.9	792.9	792.8	792.8	792.9	793.0	792.8	792.8	170-180	74.66	5951	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.200m [K=1.3889]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12553	7469
80	15018	11987
75	16840	14792
70	18358	16876
65	19510	18554
60	20367	19924
55	21014	21054
50	21527	21870
45	21955	22510

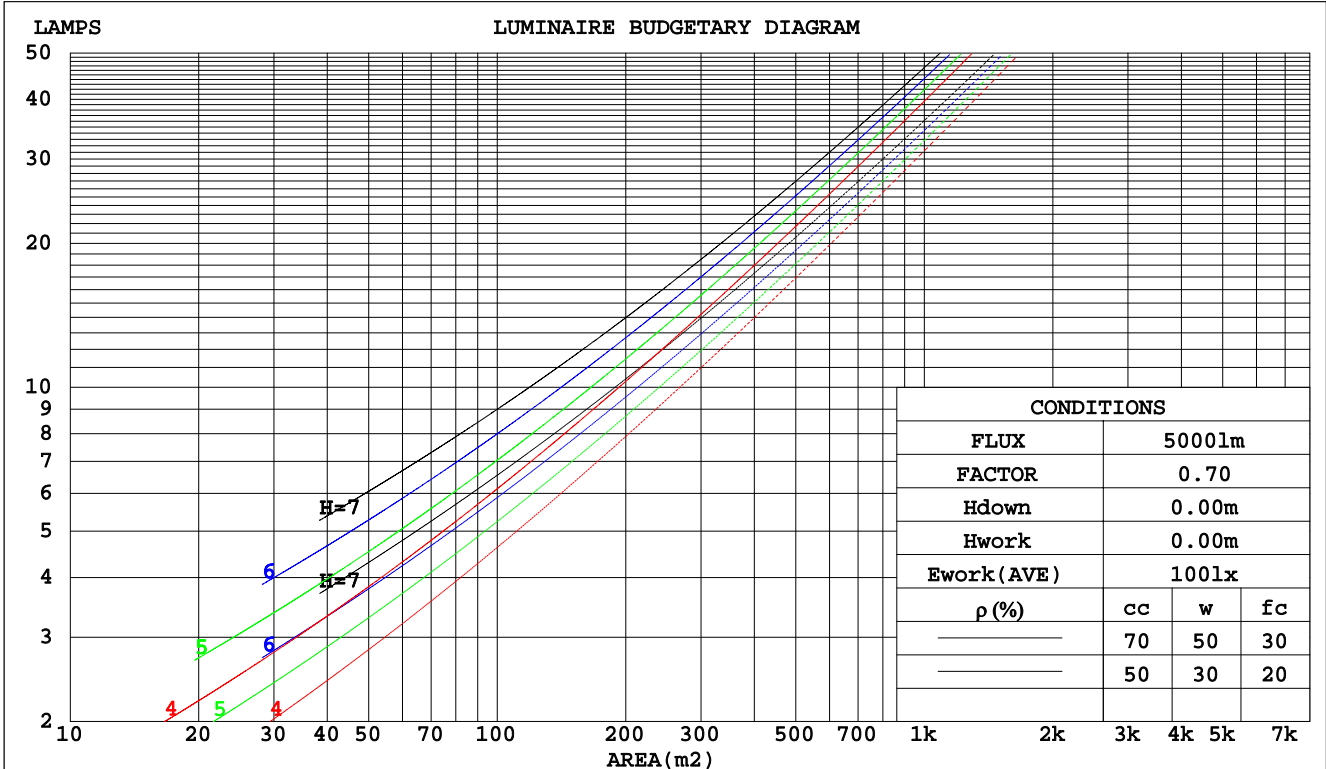
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.3889]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.10	1.10	1.10	1.03	1.03	1.03	.90	.90	.90	.78	.78	.78	.67	.67	.67	.62
1.0	.96	.92	.88	.90	.87	.83	.79	.76	.74	.69	.67	.65	.59	.58	.57	.52
2.0	.84	.77	.72	.79	.73	.68	.69	.65	.61	.60	.57	.54	.52	.50	.48	.43
3.0	.73	.66	.60	.69	.62	.57	.61	.56	.51	.53	.49	.46	.46	.43	.40	.37
4.0	.65	.57	.51	.61	.54	.48	.54	.48	.44	.47	.43	.39	.41	.38	.35	.31
5.0	.58	.50	.43	.55	.47	.41	.48	.42	.38	.42	.38	.34	.37	.33	.30	.27
6.0	.52	.44	.38	.49	.41	.36	.43	.37	.33	.38	.33	.30	.33	.29	.26	.24
7.0	.47	.39	.33	.44	.37	.32	.39	.33	.29	.35	.30	.26	.30	.26	.23	.21
8.0	.43	.35	.29	.40	.33	.28	.36	.30	.26	.32	.27	.23	.28	.24	.21	.19
9.0	.39	.31	.26	.37	.30	.25	.33	.27	.23	.29	.24	.21	.26	.22	.19	.17
10.0	.36	.28	.23	.34	.27	.22	.30	.25	.21	.27	.22	.19	.24	.20	.17	.15



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

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.200m [K=1.3889]  
Remarks:

WEC AND CCEC

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.286	.163	.052	.268	.153	.049	.233	.134	.043	.201	.116	.037	.172	.100	.032	
2.0	.268	.147	.045	.251	.138	.043	.220	.122	.038	.191	.107	.034	.164	.093	.029	
3.0	.248	.132	.040	.233	.125	.038	.205	.111	.034	.178	.098	.030	.153	.085	.026	
4.0	.230	.119	.035	.216	.113	.033	.190	.101	.030	.165	.089	.027	.143	.078	.024	
5.0	.213	.109	.031	.200	.103	.030	.176	.092	.027	.154	.081	.024	.133	.071	.021	
6.0	.198	.099	.028	.186	.094	.027	.164	.084	.024	.143	.075	.022	.124	.065	.019	
7.0	.185	.091	.026	.174	.087	.025	.153	.078	.022	.134	.069	.020	.116	.060	.018	
8.0	.173	.084	.024	.163	.080	.023	.144	.072	.021	.126	.064	.018	.109	.056	.016	
9.0	.162	.078	.022	.153	.075	.021	.135	.067	.019	.119	.059	.017	.103	.052	.015	
10.0	.153	.073	.020	.144	.070	.019	.128	.062	.018	.112	.056	.016	.097	.049	.014	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.480	.480	.480	.410	.410	.410	.280	.280	.280	.161	.161	.161	.051	.051	.051	
1.0	.470	.448	.428	.402	.385	.368	.275	.265	.255	.158	.153	.148	.051	.049	.048	
2.0	.463	.426	.395	.396	.366	.341	.272	.254	.238	.157	.147	.139	.050	.048	.045	
3.0	.456	.409	.373	.391	.353	.323	.268	.245	.227	.155	.143	.134	.050	.047	.044	
4.0	.449	.397	.358	.385	.343	.311	.265	.239	.219	.153	.140	.129	.049	.046	.043	
5.0	.442	.387	.347	.380	.335	.302	.261	.234	.213	.151	.138	.127	.049	.045	.042	
6.0	.435	.380	.340	.374	.329	.296	.258	.230	.209	.150	.135	.124	.048	.044	.041	
7.0	.429	.373	.334	.369	.324	.291	.255	.227	.206	.148	.134	.123	.048	.044	.041	
8.0	.423	.368	.330	.365	.319	.288	.252	.224	.204	.147	.132	.122	.047	.043	.040	
9.0	.418	.364	.327	.360	.316	.285	.249	.222	.202	.145	.131	.121	.047	.043	.040	
10.0	.413	.360	.324	.356	.312	.283	.247	.220	.201	.144	.130	.120	.047	.043	.040	

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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz										
Lamp Flux:5950.72x1 lm										
NAME: TS-AS1-4FT50W-L-TCP					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.: 1.215*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	21.2	22.2	21.9	23.0	23.9	21.1	22.1	21.8	22.9	23.7
3H	22.5	23.5	23.3	24.3	25.2	22.3	23.2	23.1	24.0	24.9
4H	23.1	24.0	23.8	24.7	25.7	22.7	23.6	23.5	24.4	25.4
6H	23.4	24.2	24.2	25.0	26.0	23.0	23.8	23.8	24.6	25.6
8H	23.5	24.3	24.3	25.1	26.1	23.0	23.8	23.8	24.6	25.6
12H	23.5	24.3	24.4	25.1	26.1	23.0	23.7	23.8	24.6	25.6
4H 2H	21.6	22.5	22.4	23.3	24.2	21.5	22.4	22.3	23.2	24.1
3H	23.1	23.9	23.9	24.7	25.7	22.9	23.6	23.7	24.4	25.5
4H	23.7	24.4	24.6	25.2	26.3	23.4	24.1	24.2	24.9	26.0
6H	24.2	24.8	25.0	25.6	26.7	23.7	24.3	24.6	25.2	26.3
8H	24.3	24.9	25.2	25.7	26.8	23.8	24.3	24.7	25.2	26.3
12H	24.4	24.9	25.3	25.8	26.9	23.8	24.3	24.7	25.2	26.3
8H 4H	23.8	24.4	24.7	25.2	26.3	23.5	24.1	24.4	24.9	26.0
6H	24.4	24.8	25.3	25.7	26.8	24.0	24.4	24.9	25.3	26.4
8H	24.6	25.0	25.5	25.9	27.0	24.1	24.5	25.0	25.4	26.5
12H	24.7	25.0	25.6	26.0	27.1	24.1	24.4	25.0	25.4	26.5
12H 4H	23.8	24.3	24.7	25.1	26.3	23.5	24.0	24.4	24.9	26.0
6H	24.4	24.8	25.3	25.7	26.8	23.9	24.3	24.9	25.3	26.4
8H	24.6	24.9	25.5	25.8	27.0	24.1	24.4	25.0	25.3	26.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 5951 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.2)  
 Area: 0.055 m2

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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:

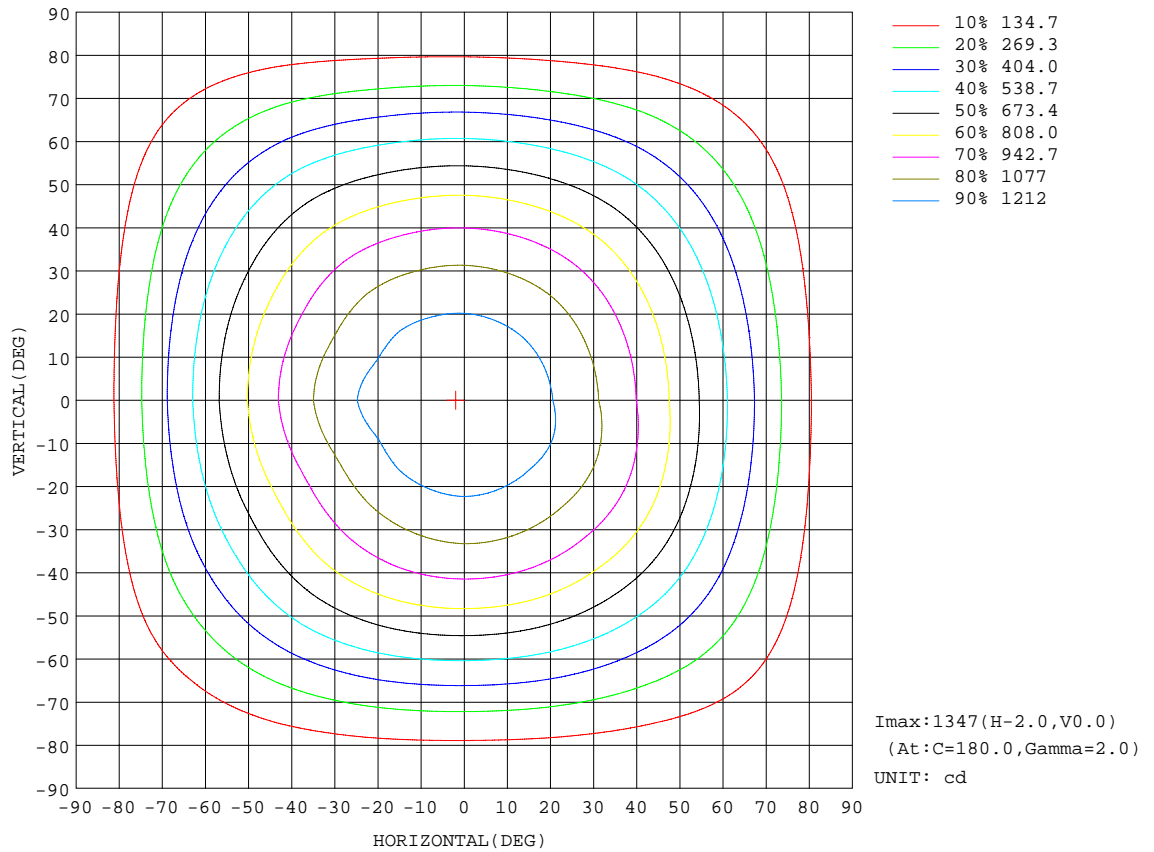
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	36	30	45	35	29	42	33	28	20
0.80	57	45	38	54	44	37	49	41	35	26
1.00	65	54	46	62	51	45	56	49	42	31
1.25	72	61	54	68	59	52	61	54	48	36
1.50	77	67	60	73	64	57	65	58	53	39
2.00	84	75	68	79	71	65	70	64	60	44
2.50	88	80	74	83	76	70	74	68	64	46
3.00	92	84	79	86	80	75	76	71	68	49
4.00	96	90	85	90	85	81	79	76	72	52
5.00	99	93	89	93	88	84	81	78	75	54
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:DAMIN  
 Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:



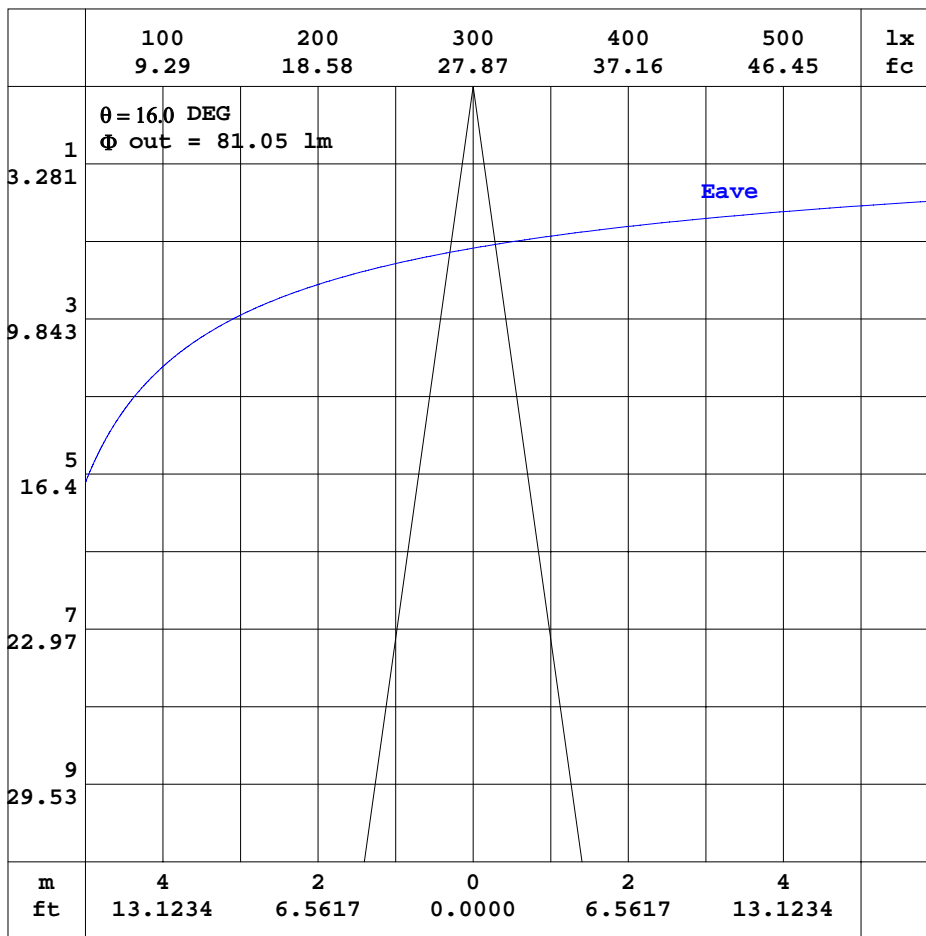
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.3889]  
 Remarks:



AAI CURVES

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:



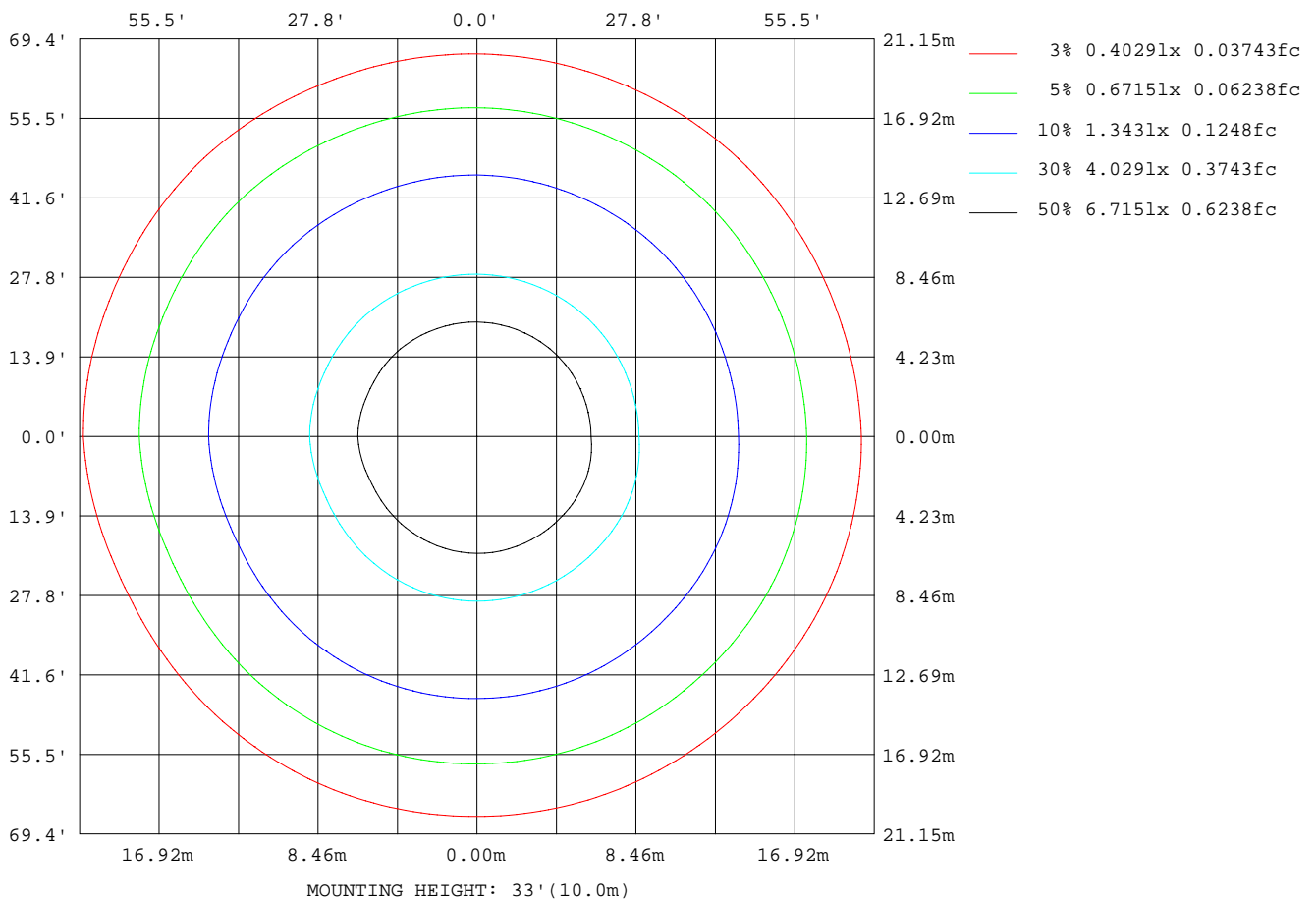
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.200m [K=1.3889]  
Remarks:

ISOLUX DIAGRAM

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:



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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

## LED Avg.L Report

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*0.045	Shielding Angle:

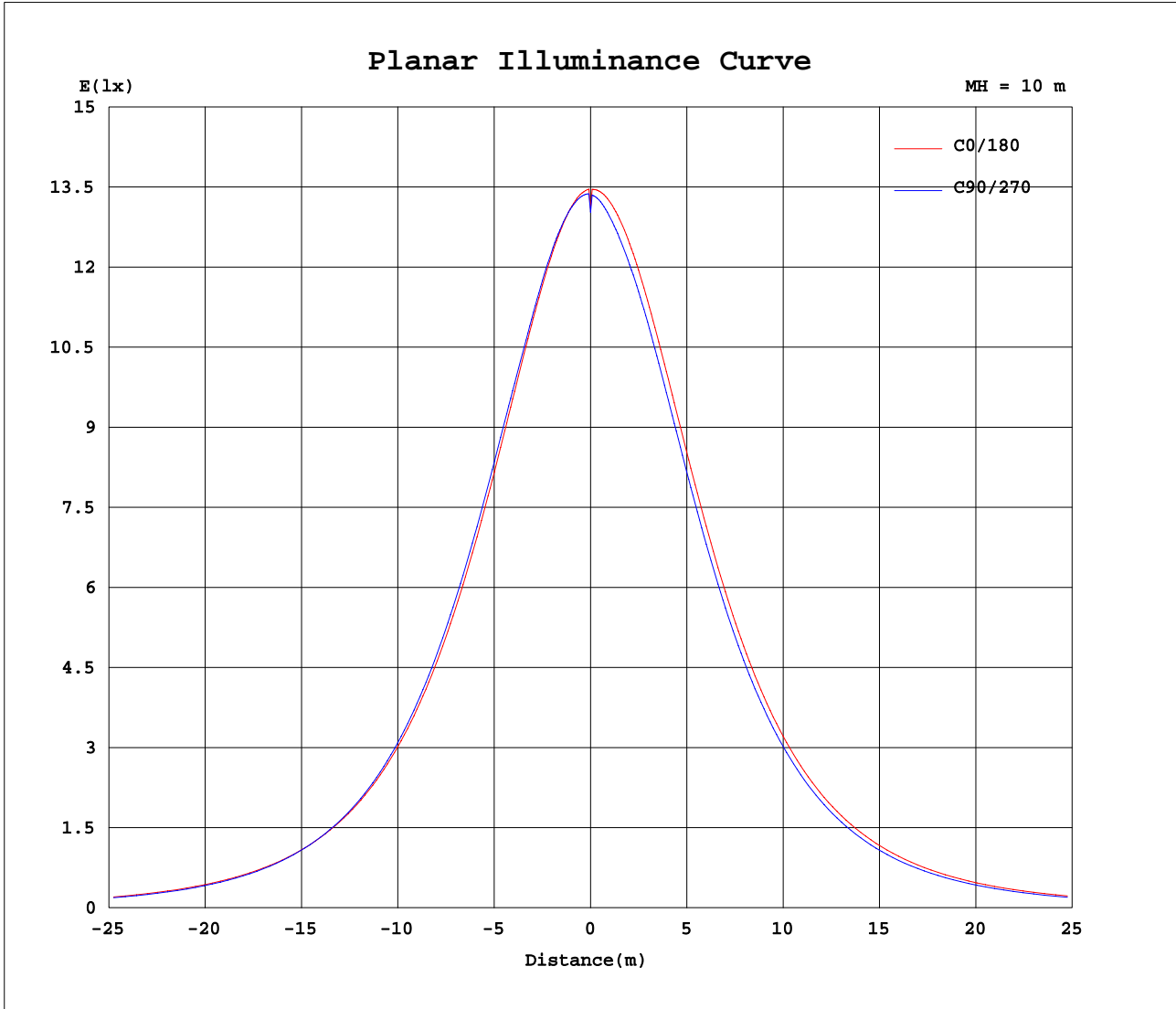
AvgL	cd/m2
L_0~180(65)av	20347
L_0~180(75)av	17701
L_0~180(85)av	12493
L_90~270(65)av	18830
L_90~270(75)av	15340
L_90~270(85)av	8588
L_45(65)av	19295
L_45(75)av	15916
L_45(85)av	9691

Standard: GB/T 29293-2012

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.200m [K=1.3889]  
Remarks:

Planar Illuminance Curve



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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.3889]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*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	1311	1310	1309	1308	1307	1307	1306	1306	1306	1305	1305	1304	1304	1303	1303	1303	1303	1303	1303
5	1335	1334	1334	1334	1333	1333	1333	1333	1332	1332	1332	1332	1332	1332	1332	1332	1332	1333	1333
10	1308	1310	1311	1312	1313	1313	1313	1312	1312	1311	1311	1311	1311	1311	1312	1312	1313	1313	1313
15	1268	1272	1274	1277	1278	1279	1278	1277	1277	1276	1276	1276	1276	1276	1277	1277	1278	1278	1278
20	1218	1223	1227	1230	1233	1234	1233	1233	1231	1230	1230	1230	1231	1231	1232	1232	1233	1233	1234
25	1159	1167	1174	1179	1183	1185	1185	1184	1182	1180	1180	1180	1181	1181	1182	1183	1183	1184	1184
30	1093	1104	1112	1118	1123	1125	1125	1124	1122	1120	1120	1120	1121	1121	1122	1123	1123	1123	1123
35	1021	1031	1040	1047	1052	1054	1054	1053	1051	1049	1049	1049	1049	1050	1051	1051	1052	1052	1052
40	940	951	960	967	972	974	973	971	969	966	966	967	967	968	968	969	969	969	969
45	854	864	872	878	882	883	882	880	877	874	873	873	874	875	875	875	875	875	875
50	761	769	775	780	783	783	781	778	775	772	772	772	772	773	773	773	773	773	773
55	663	668	672	675	677	676	674	671	668	665	664	664	664	664	664	664	664	664	664
60	560	563	564	565	565	564	561	558	555	552	551	550	550	549	549	548	548	548	548
65	454	454	454	454	452	450	447	443	440	437	435	434	433	433	432	432	431	431	431
70	345	345	344	343	341	338	334	330	326	323	321	320	320	319	319	318	318	317	317
75	240	239	238	237	234	231	228	223	220	216	214	213	213	212	212	211	211	211	211
80	143	142	141	139	136	133	130	126	123	120	118	117	117	116	116	115	115	115	114
85	60.2	58.9	57.5	55.8	53.8	51.4	48.6	45.7	43.0	40.6	39.4	38.5	37.9	37.5	37.0	36.5	36.1	35.9	35.8
90	7.07	7.88	8.55	9.07	9.45	9.63	9.63	9.53	9.36	9.13	8.93	8.72	8.51	8.30	8.13	8.00	7.89	7.81	7.75
95	38.9	39.5	40.1	40.6	41.2	41.9	42.6	43.2	43.8	44.2	44.0	43.7	43.4	43.3	43.2	43.4	44.0	45.2	46.9
100	89.9	98.2	105	111	115	118	120	120	120	119	119	119	118	118	118	119	120	120	121
105	150	159	166	172	176	179	181	181	181	180	180	180	180	179	180	181	182	183	183
110	215	225	232	239	244	247	248	249	248	247	247	247	247	247	247	248	249	250	251
115	283	290	296	301	305	308	309	310	310	310	309	309	309	309	309	310	311	312	314
120	350	355	360	363	366	369	370	371	371	371	371	371	371	370	371	372	373	374	376
125	415	417	419	421	422	424	425	425	426	426	426	426	425	425	426	426	427	428	430
130	475	480	484	488	491	493	495	495	496	496	496	495	495	495	496	497	498	499	500
135	531	536	540	543	546	548	549	550	550	550	550	550	549	549	550	551	552	553	554
140	582	586	590	593	595	597	598	599	599	599	599	599	598	598	599	600	601	602	603
145	629	633	635	638	640	641	642	642	643	643	643	643	642	642	643	644	645	646	647
150	671	673	675	677	679	680	681	681	682	682	682	681	681	681	682	683	684	685	686
155	707	709	710	711	712	713	714	714	715	715	715	715	715	715	715	716	717	718	719
160	738	739	739	740	740	741	742	742	742	743	743	743	743	743	743	744	745	746	747
165	762	762	762	762	762	762	763	763	764	764	764	764	764	764	764	765	766	767	768
170	779	778	778	777	777	777	777	778	778	779	779	779	778	779	779	780	781	781	782
175	790	788	786	785	784	784	784	785	785	786	786	786	786	786	787	787	788	789	789
180	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793

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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*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	1303	1302	1301	1301	1301	1300	1300	1300	1300	1299	1298	1298	1298	1299	1302	1305	1308	1311	1311
5	1333	1333	1333	1333	1332	1332	1332	1332	1332	1331	1330	1329	1329	1331	1335	1339	1342	1344	1340
10	1313	1313	1313	1313	1313	1313	1313	1313	1312	1311	1310	1309	1309	1312	1317	1322	1326	1329	1324
15	1279	1279	1279	1279	1279	1279	1279	1279	1279	1277	1276	1275	1276	1279	1286	1292	1297	1301	1296
20	1234	1234	1234	1234	1234	1234	1234	1233	1233	1232	1230	1230	1230	1235	1242	1250	1256	1261	1257
25	1183	1182	1181	1179	1178	1178	1177	1177	1176	1175	1173	1173	1173	1178	1187	1196	1204	1210	1206
30	1122	1120	1118	1116	1115	1113	1111	1110	1109	1107	1106	1106	1107	1113	1122	1132	1141	1148	1145
35	1051	1049	1047	1044	1042	1040	1038	1036	1035	1032	1031	1030	1032	1038	1048	1059	1069	1077	1075
40	968	967	966	964	962	960	958	956	954	951	948	947	948	955	966	978	988	997	995
45	875	875	874	873	872	871	869	867	866	862	860	858	859	865	876	888	900	909	907
50	774	774	774	774	774	773	772	771	770	767	765	764	764	770	781	793	804	814	813
55	665	666	667	668	668	668	668	668	667	665	664	663	664	670	681	692	703	712	712
60	549	550	552	554	555	555	556	556	557	556	555	555	557	563	574	585	596	605	605
65	432	434	435	437	438	438	439	440	440	440	440	442	444	451	462	473	484	492	493
70	318	320	321	322	323	323	323	323	324	324	325	327	330	337	348	359	369	378	379
75	211	212	213	214	215	215	214	214	214	213	213	214	217	223	234	245	255	264	266
80	115	116	117	118	118	118	117	117	117	115	114	115	116	122	131	141	150	158	161
85	36.3	37.0	37.7	38.4	38.6	38.5	38.3	38.0	37.6	36.8	36.1	36.1	36.7	39.4	44.0	49.1	54.4	59.6	63.2
90	7.75	7.78	7.82	7.88	7.97	8.08	8.17	8.24	8.28	8.16	8.01	7.85	7.71	7.59	7.52	7.54	7.67	7.94	8.74
95	51.0	55.5	59.9	63.8	66.1	66.5	66.1	65.1	63.6	62.1	60.4	58.4	56.1	54.0	52.0	49.5	46.4	42.4	35.0
100	122	123	123	124	124	124	124	123	122	120	117	114	110	107	104	101	97.5	93.6	87.6
105	183	183	183	183	183	184	184	184	183	181	178	175	171	168	164	161	157	153	147
110	252	253	253	254	254	253	252	250	248	246	242	239	235	232	228	225	222	218	212
115	315	316	317	318	318	318	317	316	314	311	307	303	299	296	293	290	286	283	276
120	377	379	381	382	382	382	381	379	377	374	371	367	363	359	356	353	350	346	341
125	433	437	440	443	445	444	443	441	439	436	432	428	424	421	418	415	412	408	403
130	501	501	502	502	501	501	500	499	497	494	490	487	483	480	477	474	471	468	463
135	555	555	555	555	555	554	553	552	551	548	545	541	538	535	532	530	527	524	519
140	604	604	604	604	604	603	603	602	600	598	595	592	589	586	584	582	579	576	571
145	648	648	648	648	648	648	647	646	645	643	640	638	635	633	631	629	627	624	619
150	687	687	687	687	687	687	686	686	684	683	680	678	676	674	672	671	669	667	662
155	720	720	720	720	720	720	720	719	718	717	715	713	711	710	708	707	706	704	700
160	747	748	748	748	748	748	748	747	746	745	744	742	740	739	738	737	736	734	731
165	768	769	769	769	769	769	769	768	768	767	766	764	763	762	762	762	761	759	756
170	783	783	783	783	783	783	783	783	783	782	782	781	780	780	779	779	778	777	775
175	790	790	791	791	791	791	791	791	791	790	790	790	789	789	790	790	789	789	787
180	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793

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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*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	1310	1309	1308	1307	1306	1306	1306	1305	1305	1304	1304	1303	1303	1303	1303	1303	1303	1303	1302
5	1336	1330	1325	1322	1322	1322	1322	1322	1322	1321	1320	1319	1319	1318	1318	1318	1318	1318	1318
10	1317	1310	1303	1299	1297	1297	1297	1297	1296	1295	1293	1292	1291	1290	1290	1289	1289	1288	1288
15	1290	1282	1275	1270	1269	1269	1269	1269	1267	1265	1264	1262	1260	1259	1258	1257	1256	1256	1255
20	1250	1243	1236	1231	1230	1230	1230	1230	1227	1225	1222	1220	1218	1216	1215	1214	1213	1212	1211
25	1201	1193	1186	1181	1180	1179	1179	1179	1176	1173	1170	1167	1164	1163	1161	1160	1159	1158	1157
30	1140	1133	1126	1121	1120	1119	1118	1117	1114	1111	1107	1104	1101	1099	1098	1096	1095	1094	1093
35	1070	1063	1056	1052	1050	1049	1048	1047	1044	1040	1036	1032	1029	1027	1025	1024	1022	1021	1020
40	991	984	978	973	972	971	970	969	965	961	956	952	949	947	945	943	942	940	939
45	903	898	892	888	886	885	884	883	879	874	870	865	862	859	857	856	854	853	851
50	809	804	799	795	794	793	791	790	786	781	776	772	768	766	763	762	760	759	757
55	709	705	700	696	695	694	693	691	686	682	676	672	668	665	663	662	660	659	657
60	603	599	595	592	591	590	589	587	582	576	571	565	561	559	557	555	554	552	550
65	492	489	485	483	482	481	479	477	472	466	461	455	451	449	447	445	444	442	441
70	379	377	374	372	371	369	367	364	359	354	349	344	340	338	337	335	334	332	331
75	266	265	263	261	260	258	256	253	249	244	240	235	232	230	229	227	226	225	223
80	161	161	159	158	157	155	153	151	147	143	140	136	133	131	130	129	128	126	126
85	66.3	68.6	70.2	70.7	70.1	68.9	67.0	64.7	61.8	58.7	55.6	52.7	50.5	49.1	48.0	47.2	46.5	45.6	44.8
90	9.62	10.5	11.3	11.7	11.7	11.6	11.3	11.0	10.7	10.4	10.2	9.90	9.67	9.48	9.33	9.21	9.13	9.15	9.20
95	27.1	19.4	12.5	8.44	7.46	7.57	8.40	9.58	9.56	9.53	9.48	9.43	9.34	9.25	9.15	9.07	9.00	9.01	9.04
100	81.4	75.4	69.9	66.4	64.8	64.0	63.8	64.0	64.1	64.4	64.6	64.8	64.4	63.4	62.3	61.4	60.6	60.7	61.0
105	141	136	131	128	127	126	127	127	128	128	128	128	127	127	126	126	126	125	125
110	205	199	194	190	189	189	189	190	190	191	191	191	191	190	190	189	188	188	188
115	270	264	259	255	254	254	254	255	255	256	256	256	256	255	255	254	254	253	253
120	335	329	324	321	320	320	320	320	321	321	321	322	322	321	321	320	319	319	319
125	397	392	387	384	383	383	383	384	384	385	385	385	385	385	384	384	383	383	383
130	457	452	448	445	444	444	444	444	445	445	445	446	446	445	445	444	444	444	444
135	514	509	504	501	501	500	501	501	502	502	502	503	503	502	502	502	501	501	501
140	566	561	557	554	553	553	554	555	555	555	555	556	556	555	555	555	555	555	555
145	614	609	605	603	602	602	602	603	603	604	604	604	604	604	604	604	604	604	604
150	657	653	649	646	646	646	646	647	647	647	647	648	648	648	648	648	648	648	648
155	695	691	687	685	684	684	685	685	686	686	686	686	687	687	687	687	687	687	687
160	727	723	720	717	717	717	718	718	718	719	719	719	719	719	720	720	720	720	721
165	753	749	746	744	744	744	745	745	745	746	746	746	746	747	747	747	747	748	748
170	772	769	766	765	765	765	765	766	766	766	766	767	767	767	768	768	768	769	769
175	784	782	780	778	778	779	779	780	780	780	780	780	780	781	782	782	783	783	783
180	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793

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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.43V I:0.4066A P:48.583W PF:0.9922 Freq:59.98Hz Lamp Flux:5950.72x1 lm		
NAME: TS-AS1-4FT50W-L-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.215*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	1301	1301	1301	1300	1300	1300	1300	1299	1298	1298	1298	1298	1300	1303	1307				
5	1318	1318	1318	1319	1319	1320	1321	1321	1321	1321	1322	1323	1325	1328	1331				
10	1287	1287	1287	1288	1289	1290	1292	1293	1294	1295	1296	1298	1300	1302	1305				
15	1254	1254	1253	1253	1253	1253	1254	1255	1256	1258	1259	1261	1262	1264	1266				
20	1211	1210	1210	1209	1210	1210	1210	1210	1211	1211	1212	1212	1213	1215	1216				
25	1156	1156	1155	1155	1156	1156	1156	1156	1155	1155	1155	1155	1155	1156	1157				
30	1092	1091	1091	1091	1091	1092	1092	1091	1091	1090	1090	1090	1090	1091	1092				
35	1019	1018	1018	1018	1018	1019	1019	1018	1018	1017	1017	1017	1017	1018	1019				
40	938	937	937	937	937	938	938	938	937	937	936	936	937	938	939				
45	850	850	849	849	850	850	850	850	849	849	849	849	850	851	852				
50	756	755	755	755	756	756	757	756	755	755	755	755	756	757	759				
55	655	654	654	654	655	656	656	656	655	654	654	654	656	658	660				
60	549	548	548	548	549	550	550	550	549	548	548	549	550	553	556				
65	439	439	438	439	439	440	441	440	439	438	438	439	441	445	449				
70	330	328	328	329	329	330	330	330	329	328	328	329	332	336	340				
75	222	221	221	221	222	222	223	222	221	221	221	223	225	229	234				
80	125	124	124	124	124	124	124	124	123	123	124	125	129	133	138				
85	44.0	43.4	43.0	42.9	42.9	42.9	42.9	41.9	41.2	40.8	41.1	42.7	45.6	49.5	54.3				
90	9.26	9.33	9.36	9.37	9.35	9.30	9.22	9.07	8.90	8.70	8.47	8.22	7.96	7.69	7.39				
95	9.10	9.17	8.87	8.30	8.10	8.48	9.68	13.9	18.8	23.9	29.0	32.9	35.4	37.3	38.5				
100	61.6	62.4	63.4	64.5	65.9	67.4	69.1	71.3	73.6	76.1	78.5	81.0	83.2	85.5	87.7				
105	124	124	124	124	124	125	125	127	129	132	135	137	140	144	147				
110	187	187	187	187	187	187	188	190	193	196	199	202	206	209	212				
115	253	253	253	253	253	254	255	257	260	263	266	269	272	276	279				
120	319	319	319	319	320	320	322	324	327	330	334	337	340	344	347				
125	383	383	383	383	384	385	386	389	391	395	398	401	405	408	411				
130	444	444	444	445	445	446	448	450	453	456	459	462	465	468	471				
135	501	502	502	502	503	504	505	507	510	513	516	519	522	525	528				
140	555	555	555	556	556	557	558	561	563	566	569	571	574	577	580				
145	604	604	605	605	605	606	607	609	612	614	617	619	622	624	627				
150	648	648	649	649	650	650	652	653	655	657	660	662	664	667	669				
155	687	688	688	689	689	690	691	692	694	696	698	700	702	704	706				
160	721	721	722	722	723	723	724	725	727	728	730	732	733	735	736				
165	748	749	749	750	750	750	751	752	753	754	756	757	758	759	761				
170	770	770	770	770	771	771	771	772	773	774	775	776	777	778	778				
175	784	784	784	784	785	785	785	786	786	786	787	787	788	789	789				
180	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793				

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

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.3889]  
 Remarks: