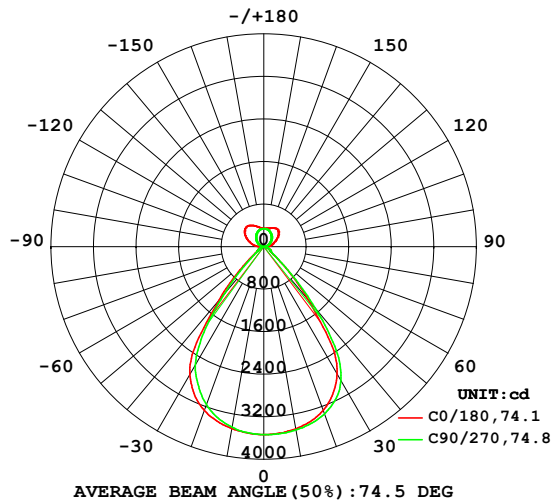


LUMINAIRE PHOTOMETRIC TEST REPORT

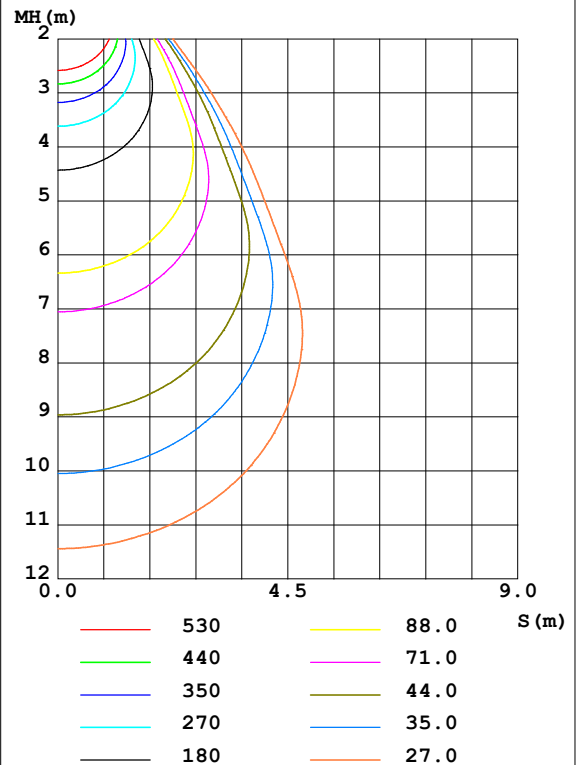
Test:U:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.44 lm/W			
MODEL		I _{max} (cd)	3536	S/MH(C0/180)	1.07
NOMINAL POWER(W)	48W	LOR(%)	100.0	S/MH(C90/270)	1.05
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	6712.8	η UP,DN(C0-180)	11.1,40.7
NOMINAL FLUX(lm)	6712.84	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	11.5,36.7
LAMPS INSIDE	1	η up(%)	22.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	77.5	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:

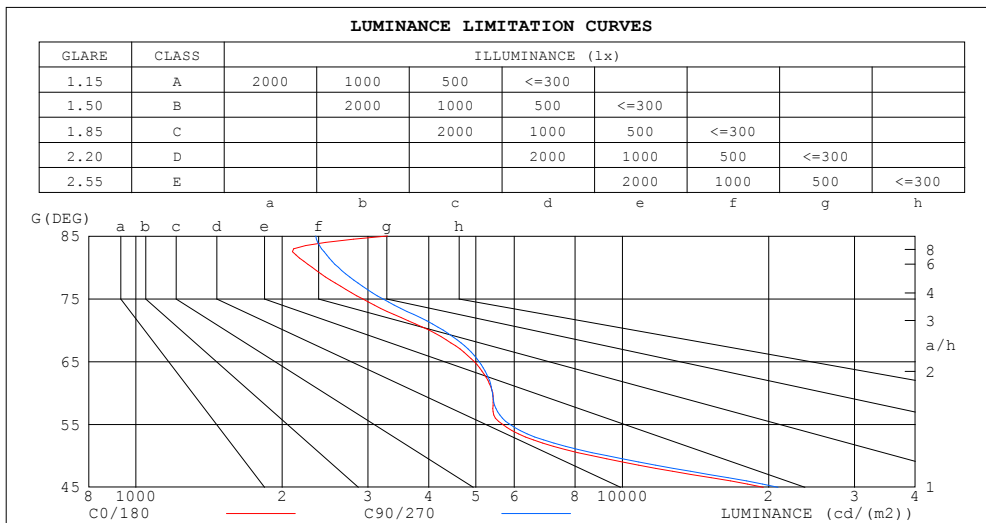
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3477	3486	3498	3497	3471	3465	3448	3446	0- 10	334.4	334.4	4.98,4.98
20	3275	3311	3346	3340	3276	3224	3161	3176	10- 20	956.1	1291	19.2,19.2
30	2758	2882	2905	2959	2783	2711	2579	2590	20- 30	1403	2694	40.1,40.1
40	1299	1991	1503	2143	1304	1756	1140	1601	30- 40	1400	4094	61,61
50	278.1	585.9	298.8	699.4	284.5	470.8	228.8	420.7	40- 50	728.3	4822	71.8,71.8
60	135.5	162.8	135.3	178.6	133.9	145.0	127.3	131.1	50- 60	213.2	5035	75,75
70	68.56	70.56	73.25	77.82	68.52	66.11	61.50	58.30	60- 70	102.2	5138	76.5,76.5
80	20.01	21.75	22.65	25.89	20.66	20.58	17.87	17.20	70- 80	42.90	5180	77.2,77.2
90	39.54	20.36	1.853	53.70	69.30	78.68	1.340	41.27	80- 90	20.12	5201	77.5,77.5
100	128.2	92.14	25.80	157.7	199.2	170.7	32.90	107.9	90-100	85.19	5286	78.7,78.7
110	195.8	166.2	73.21	246.8	301.5	261.1	82.96	184.9	100-110	159.4	5445	81.1,81.1
120	280.9	242.5	124.4	328.0	400.3	329.4	136.4	265.2	110-120	225.3	5670	84.5,84.5
130	365.7	295.4	177.5	382.7	472.4	367.8	189.1	314.0	120-130	263.0	5933	88.4,88.4
140	414.1	324.3	228.9	397.5	496.2	375.8	238.3	339.8	130-140	261.0	6194	92.3,92.3
150	403.8	336.6	274.3	387.0	465.0	368.9	281.5	341.9	140-150	222.9	6417	95.6,95.6
160	371.3	341.0	310.6	367.7	408.3	356.8	316.1	342.4	150-160	163.9	6581	98,98
170	350.2	341.7	334.4	351.0	361.1	346.8	337.0	342.0	160-170	98.77	6680	99.5,99.5
180	338.1	338.1	338.1	338.1	338.1	338.1	338.1	338.1	170-180	32.85	6713	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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	3289	2343
80	2305	2609
75	2926	3215
70	4009	4283
65	4962	5079
60	5420	5410
55	5668	5869
50	8654	9297
45	19482	20898

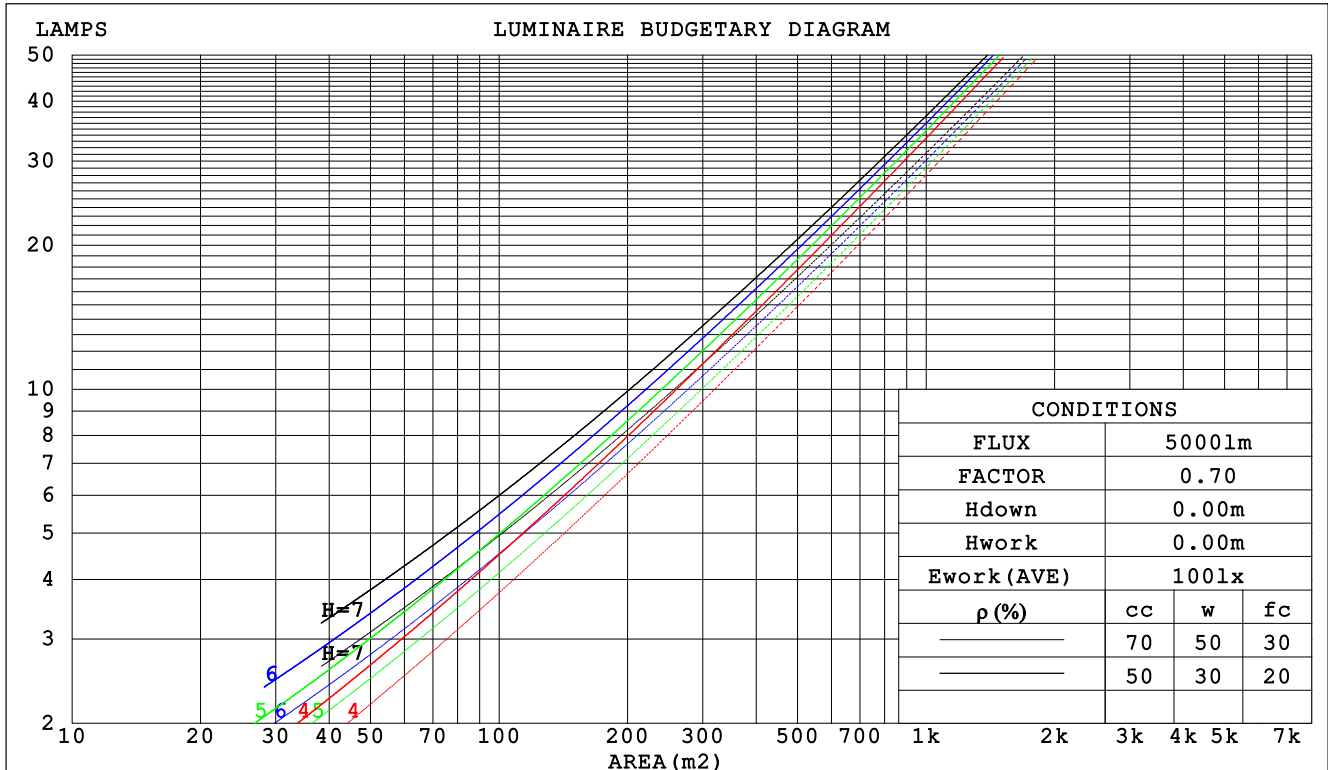
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	1.14	1.14	1.14	1.08	1.08	1.08	.99	.99	.99	.90	.90	.90	.81	.81	.81	.77
1.0	1.03	1.00	.97	.99	.96	.94	.91	.89	.87	.83	.81	.80	.76	.75	.74	.71
2.0	.94	.89	.84	.90	.85	.82	.83	.79	.77	.76	.74	.72	.71	.69	.67	.64
3.0	.85	.79	.74	.82	.76	.72	.76	.72	.68	.70	.67	.64	.65	.63	.61	.58
4.0	.78	.71	.66	.75	.69	.64	.70	.65	.61	.65	.61	.58	.61	.58	.55	.52
5.0	.71	.64	.59	.69	.62	.58	.64	.59	.55	.60	.56	.53	.56	.53	.50	.48
6.0	.65	.58	.53	.63	.57	.52	.59	.54	.50	.56	.51	.48	.52	.49	.46	.44
7.0	.60	.53	.48	.58	.52	.47	.55	.49	.45	.52	.47	.44	.49	.45	.42	.40
8.0	.56	.49	.44	.54	.48	.43	.51	.45	.42	.48	.43	.40	.45	.42	.39	.37
9.0	.52	.45	.40	.50	.44	.39	.47	.42	.38	.45	.40	.37	.43	.39	.36	.34
10.0	.48	.41	.37	.47	.41	.36	.44	.39	.35	.42	.37	.34	.40	.36	.33	.31



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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	.220	.125	.040	.207	.118	.037	.181	.104	.033	.158	.091	.029	.136	.079	.025		
2.0	.210	.115	.035	.198	.109	.034	.175	.097	.030	.154	.086	.027	.134	.076	.024		
3.0	.198	.106	.032	.188	.100	.030	.167	.091	.028	.148	.081	.025	.130	.072	.022		
4.0	.187	.097	.029	.178	.093	.027	.159	.084	.025	.142	.076	.023	.126	.068	.021		
5.0	.177	.090	.026	.168	.086	.025	.151	.079	.023	.136	.072	.021	.121	.065	.019		
6.0	.168	.084	.024	.159	.081	.023	.144	.074	.021	.130	.067	.020	.116	.061	.018		
7.0	.159	.079	.022	.151	.075	.021	.137	.069	.020	.124	.063	.018	.111	.058	.017		
8.0	.151	.074	.021	.144	.071	.020	.131	.065	.019	.118	.060	.017	.107	.055	.016		
9.0	.143	.069	.019	.137	.067	.019	.125	.062	.017	.113	.057	.016	.102	.052	.015		
10.0	.136	.065	.018	.130	.063	.018	.119	.058	.016	.108	.054	.015	.098	.049	.014		

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	.362	.362	.362	.309	.309	.309	.211	.211	.211	.121	.121	.121	.039	.039	.039	
1.0	.347	.330	.314	.297	.283	.271	.203	.195	.187	.117	.113	.109	.037	.036	.035	
2.0	.336	.307	.282	.287	.264	.244	.197	.183	.170	.114	.106	.100	.036	.034	.032	
3.0	.326	.289	.260	.279	.249	.225	.192	.173	.158	.111	.101	.093	.036	.033	.030	
4.0	.318	.276	.243	.272	.238	.211	.187	.166	.149	.108	.097	.088	.035	.032	.029	
5.0	.310	.265	.232	.266	.229	.202	.184	.160	.142	.106	.094	.084	.034	.031	.028	
6.0	.304	.257	.223	.261	.222	.194	.180	.156	.137	.104	.092	.082	.034	.030	.027	
7.0	.298	.250	.216	.256	.217	.188	.177	.152	.133	.103	.089	.079	.033	.029	.026	
8.0	.292	.244	.211	.252	.212	.184	.174	.149	.131	.101	.088	.078	.033	.029	.026	
9.0	.287	.239	.207	.248	.208	.181	.172	.146	.128	.100	.086	.076	.032	.028	.025	
10.0	.283	.235	.204	.244	.204	.178	.169	.144	.126	.099	.085	.075	.032	.028	.025	

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	19.6	20.5	20.1	21.0	21.6	19.4	20.4	20.0	20.9	21.5
3H	19.5	20.3	20.0	20.9	21.5	19.3	20.2	19.9	20.8	21.4
4H	19.4	20.2	20.0	20.8	21.4	19.3	20.1	19.9	20.7	21.3
6H	19.3	20.0	19.9	20.6	21.3	19.2	19.9	19.8	20.5	21.2
8H	19.2	20.0	19.9	20.6	21.2	19.1	19.9	19.8	20.5	21.2
12H	19.2	19.9	19.8	20.5	21.2	19.1	19.8	19.7	20.4	21.1
4H 2H	19.3	20.1	19.9	20.7	21.3	19.2	20.0	19.8	20.5	21.2
3H	19.2	19.9	19.9	20.5	21.3	19.1	19.8	19.8	20.4	21.1
4H	19.2	19.8	19.8	20.4	21.2	19.1	19.7	19.8	20.3	21.1
6H	19.1	19.6	19.8	20.3	21.1	19.0	19.6	19.7	20.2	21.0
8H	19.0	19.5	19.8	20.2	21.0	19.0	19.5	19.7	20.2	21.0
12H	19.0	19.4	19.7	20.2	21.0	18.9	19.4	19.6	20.1	20.9
8H 4H	19.0	19.5	19.7	20.2	21.0	18.9	19.4	19.6	20.1	20.9
6H	19.0	19.4	19.7	20.1	20.9	18.9	19.3	19.6	20.0	20.9
8H	18.9	19.3	19.7	20.0	20.9	18.8	19.2	19.6	19.9	20.8
12H	18.9	19.2	19.7	19.9	20.9	18.8	19.1	19.6	19.9	20.8
12H 4H	18.9	19.4	19.7	20.1	20.9	18.9	19.3	19.6	20.0	20.8
6H	18.9	19.2	19.6	20.0	20.9	18.8	19.2	19.6	19.9	20.8
8H	18.9	19.2	19.6	19.9	20.8	18.8	19.1	19.6	19.8	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 5.2					+ 2.2 / - 5.2				
1.5H	+ 2.9 / - 5.4					+ 3.1 / - 5.0				
2.0H	+ 4.5 / - 3.2					+ 4.1 / - 2.8				

CIE Pub.117 Corrected 6713 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.6)

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

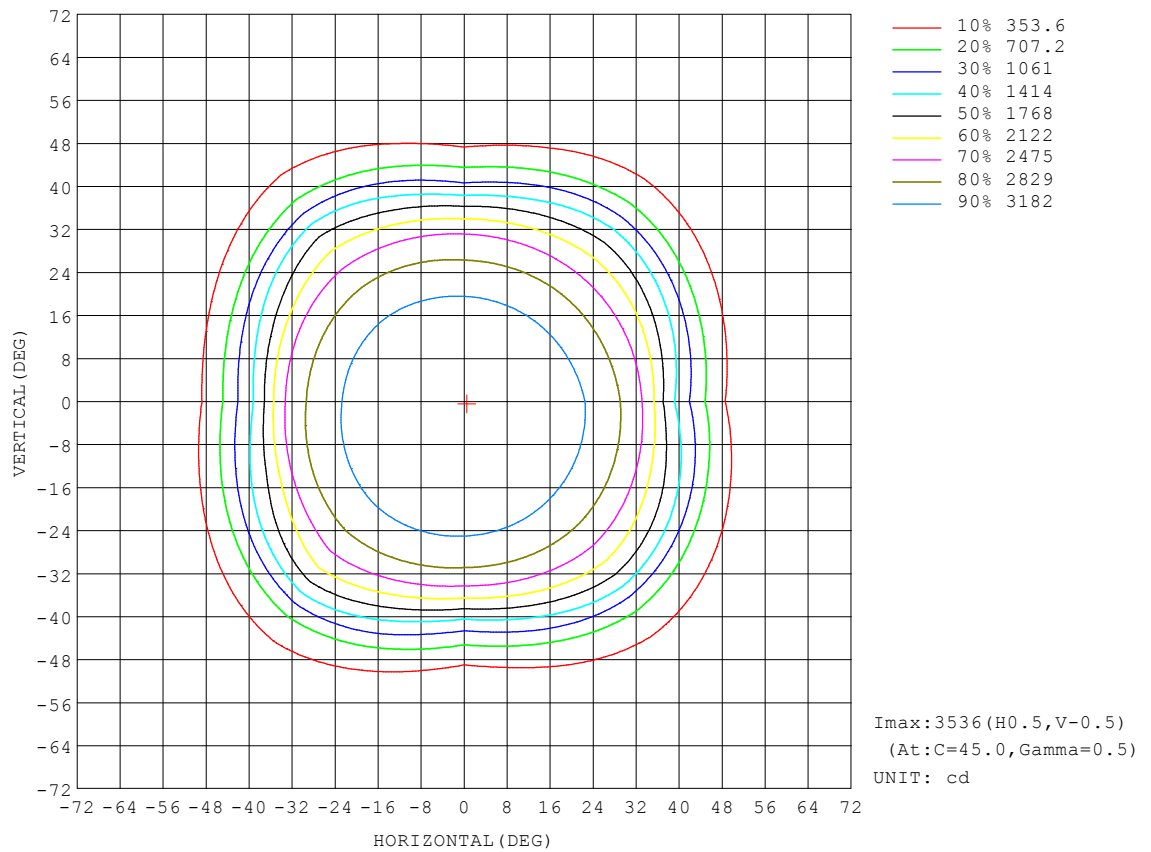
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	59	54	66	58	53	64	57	52	47
0.80	76	67	62	74	66	62	71	64	60	54
1.00	82	74	69	80	73	68	76	71	66	59
1.25	88	80	75	85	78	74	81	75	71	63
1.50	92	84	79	89	82	78	83	78	75	66
2.00	96	90	85	93	87	83	87	83	79	68
2.50	99	93	89	96	90	86	89	85	82	70
3.00	101	96	92	98	93	89	90	87	84	71
4.00	104	100	96	100	96	93	93	90	87	73
5.00	106	102	99	102	99	96	94	91	89	74
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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

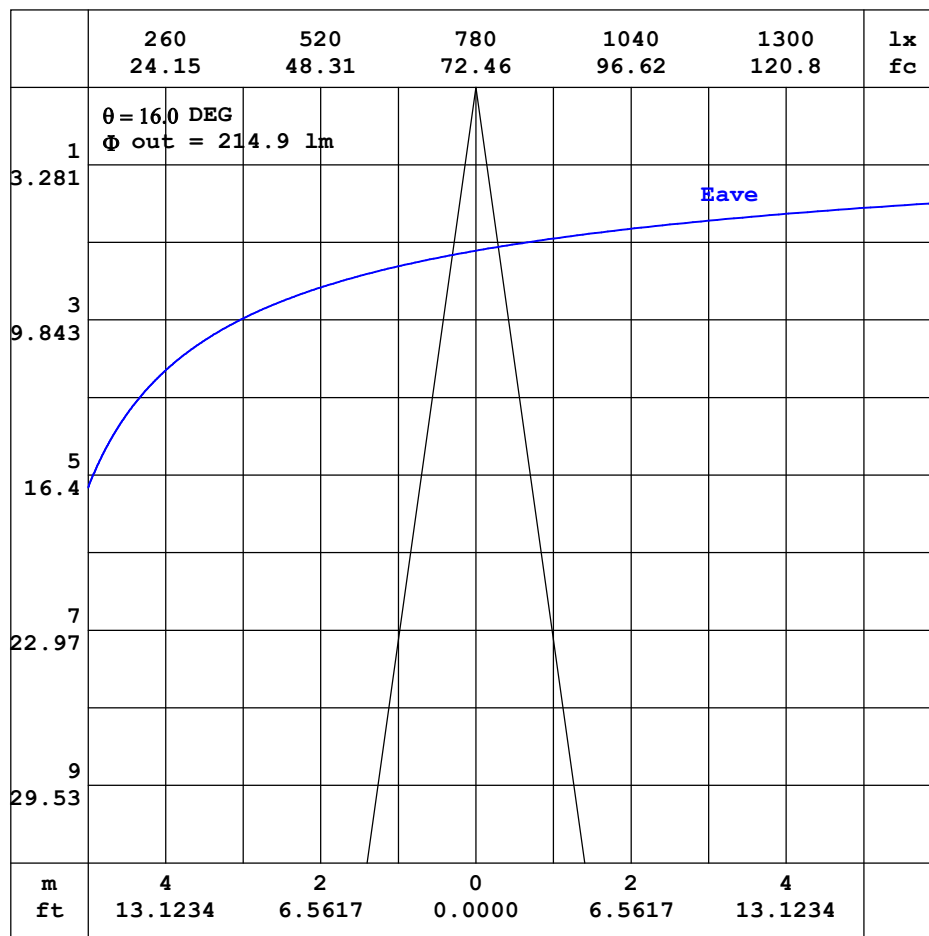


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



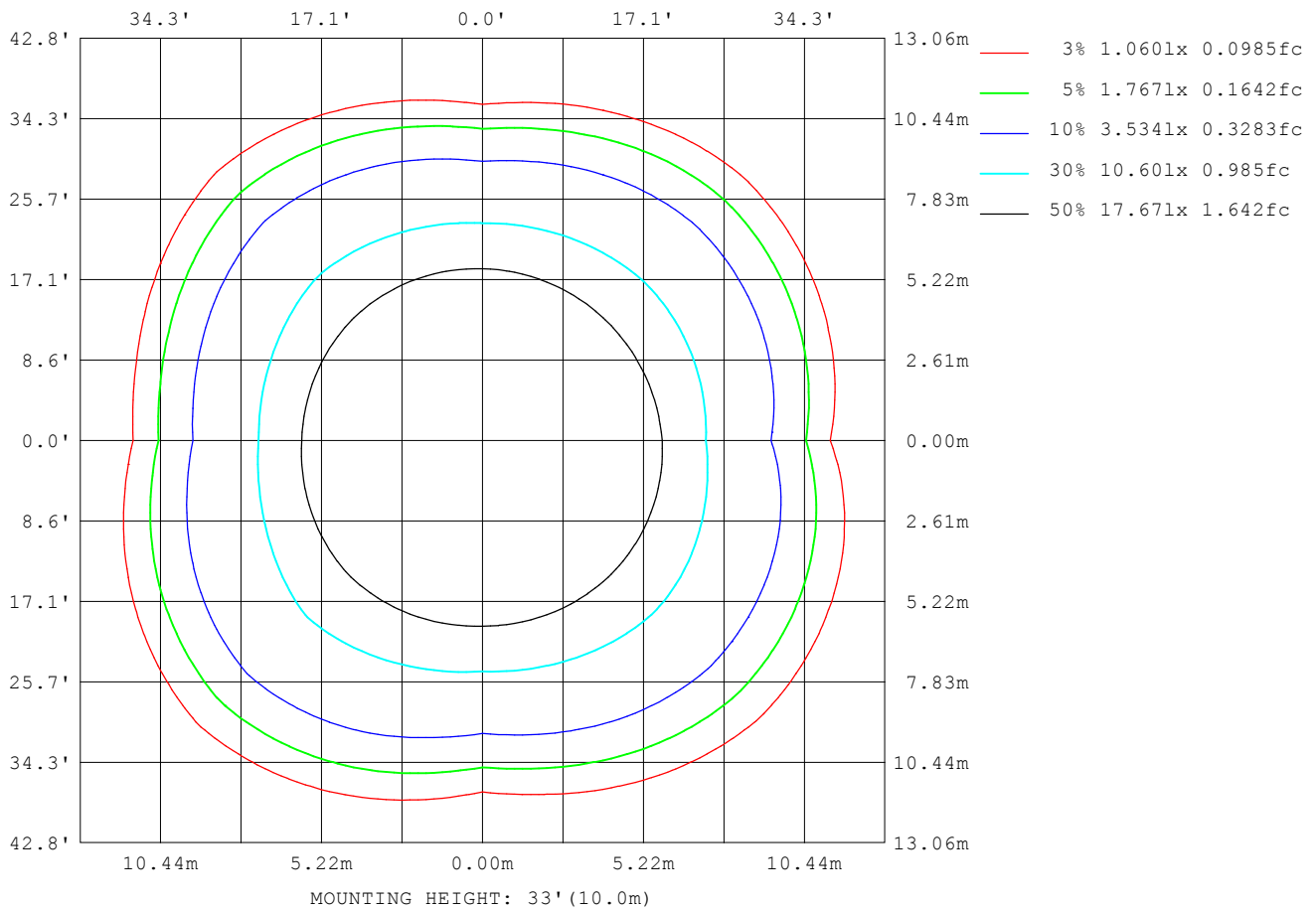
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 lm		
NAME: 4FT	TYPE:3000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

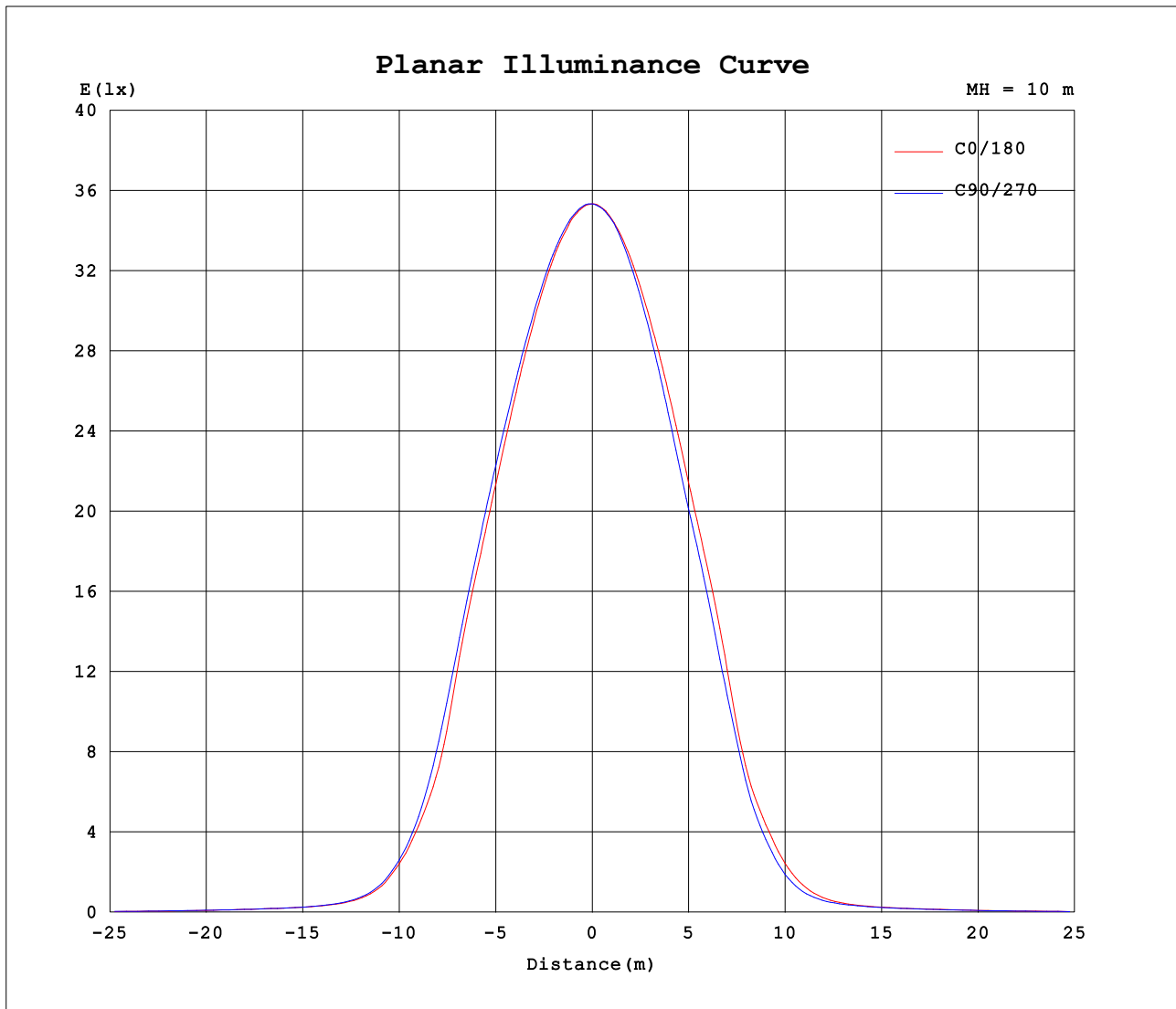
AvgL	cd/m2
L_0~180 (65) av	4948
L_0~180 (75) av	2940
L_0~180 (85) av	3777
L_90~270 (65) av	4838
L_90~270 (75) av	2932
L_90~270 (85) av	1899
L_45 (65) av	4827
L_45 (75) av	3071
L_45 (85) av	2939

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	3534	3534	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3534
5	3519	3520	3520	3521	3522	3522	3523	3523	3524	3524	3525	3526	3526	3527	3527	3528	3528	3528	3529
10	3477	3478	3479	3480	3481	3482	3483	3484	3485	3486	3488	3489	3491	3492	3494	3495	3496	3497	3498
15	3402	3404	3405	3407	3408	3410	3412	3414	3416	3418	3421	3424	3426	3429	3432	3434	3437	3439	3441
20	3275	3279	3283	3287	3291	3295	3299	3303	3307	3311	3315	3320	3325	3329	3333	3337	3341	3344	3346
25	3068	3077	3085	3094	3102	3109	3117	3124	3131	3137	3144	3151	3157	3163	3168	3173	3178	3182	3185
30	2758	2777	2794	2811	2826	2839	2852	2863	2873	2882	2887	2891	2894	2897	2899	2900	2902	2903	2905
35	2191	2248	2300	2347	2387	2423	2453	2477	2495	2509	2501	2489	2474	2457	2438	2420	2403	2388	2377
40	1299	1434	1554	1660	1752	1829	1891	1939	1972	1991	1952	1903	1845	1782	1718	1654	1595	1544	1503
45	689	807	911	1002	1079	1143	1193	1230	1253	1262	1215	1158	1093	1025	956	890	829	778	739
50	278	342	398	447	488	523	549	569	581	586	560	528	493	455	418	381	348	320	299
55	163	190	214	235	252	267	278	286	291	293	282	268	253	237	221	205	190	178	168
60	135	141	146	151	154	157	160	161	162	163	160	157	153	150	146	143	140	137	135
65	105	105	105	104	104	104	104	104	105	105	105	105	105	106	106	106	107	107	107
70	68.6	68.7	68.9	69.2	69.4	69.6	69.8	70.1	70.3	70.6	70.8	71.1	71.3	71.6	71.9	72.2	72.5	72.9	73.3
75	37.9	38.3	38.8	39.2	39.6	39.9	40.2	40.5	40.8	41.0	41.1	41.1	41.1	41.2	41.2	41.2	41.3	41.4	41.6
80	20.0	20.2	20.5	20.7	20.9	21.1	21.3	21.4	21.6	21.8	21.8	21.9	22.0	22.1	22.2	22.2	22.4	22.5	22.7
85	14.3	13.7	13.0	12.5	11.9	11.5	11.1	10.7	10.4	10.1	9.94	9.80	9.71	9.67	9.70	9.81	9.92	10.0	10.2
90	39.5	37.4	35.2	33.1	30.9	28.8	26.7	24.6	22.5	20.4	17.0	13.7	10.7	7.91	5.54	3.65	2.34	1.83	1.85
95	90.3	88.4	86.1	83.5	80.7	77.5	74.0	70.2	66.1	61.7	53.5	45.3	37.3	29.8	22.9	17.1	12.5	9.36	7.98
100	128	126	123	120	116	112	108	103	97.6	92.1	82.1	72.0	62.1	52.8	44.4	37.2	31.5	27.6	25.8
105	159	158	156	153	150	147	143	138	132	127	115	103	92.0	81.1	71.1	62.5	55.6	50.8	48.5
110	196	196	195	193	190	187	183	178	173	166	153	139	126	113	101	90.9	82.5	76.4	73.2
115	238	239	238	236	233	230	225	220	213	206	191	175	160	145	132	120	110	103	98.7
120	281	281	279	277	274	269	264	258	251	243	226	209	192	176	161	148	137	129	124
125	327	324	321	316	311	305	298	290	282	272	255	237	220	203	188	174	164	156	151
130	366	360	354	348	340	332	324	315	306	295	278	260	243	227	212	199	189	181	178
135	395	387	379	371	362	353	343	333	323	313	296	279	263	248	235	223	214	207	204
140	414	404	395	385	375	365	355	345	335	324	309	294	280	267	255	245	237	231	229
145	418	408	398	388	379	369	360	350	341	332	319	306	294	283	273	265	259	254	253
150	404	396	388	381	373	366	358	351	344	337	326	316	307	298	290	284	279	276	274
155	388	382	377	371	366	360	355	350	345	339	332	325	318	311	306	301	297	295	294
160	371	368	365	361	358	354	351	348	344	341	336	331	327	322	318	315	313	311	311
165	359	357	355	353	351	349	347	345	343	341	339	336	333	331	328	327	325	324	324
170	350	349	348	347	346	345	344	343	343	342	340	339	338	337	336	335	335	334	334
175	344	344	344	343	343	343	343	342	342	342	342	341	341	341	341	340	340	340	340
180	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	3534	3534	3533	3533	3533	3532	3532	3532	3532	3532	3532	3532	3532	3533	3533	3533	3534	3534	3534
5	3529	3529	3529	3530	3530	3529	3529	3529	3528	3527	3526	3525	3525	3524	3523	3521	3520	3519	3517
10	3499	3500	3500	3500	3500	3499	3499	3498	3497	3494	3491	3489	3486	3486	3483	3480	3477	3474	3471
15	3442	3443	3443	3443	3443	3442	3441	3440	3438	3435	3431	3427	3422	3418	3413	3408	3403	3399	3395
20	3348	3349	3350	3350	3349	3348	3346	3344	3340	3335	3329	3322	3315	3307	3300	3292	3284	3276	3270
25	3189	3192	3194	3195	3196	3195	3194	3191	3187	3177	3167	3156	3144	3131	3118	3105	3092	3080	3072
30	2914	2924	2932	2941	2948	2954	2958	2960	2959	2945	2928	2909	2889	2868	2846	2825	2803	2783	2773
35	2404	2435	2467	2500	2532	2561	2586	2606	2620	2585	2543	2497	2447	2395	2344	2293	2246	2204	2205
40	1566	1640	1720	1803	1886	1965	2037	2097	2143	2072	1987	1891	1788	1682	1577	1477	1385	1304	1334
45	809	891	981	1075	1169	1260	1344	1416	1473	1413	1338	1251	1157	1058	958	861	771	691	707
50	337	381	430	481	533	582	628	668	699	668	628	582	531	479	426	375	327	285	294
55	184	202	221	242	263	284	302	319	332	319	302	283	263	241	220	199	180	163	167
60	139	144	150	155	161	166	171	175	179	175	171	166	161	155	150	144	139	134	134
65	108	109	109	110	110	111	111	112	112	111	111	110	109	108	107	106	105	104	104
70	74.0	74.7	75.3	76.0	76.6	77.1	77.4	77.7	77.8	77.1	76.2	75.2	74.2	73.0	71.9	70.7	69.6	68.5	68.1
75	42.3	43.1	43.8	44.6	45.3	45.9	46.4	46.8	47.1	46.4	45.5	44.6	43.5	42.5	41.4	40.3	39.2	38.2	38.0
80	23.1	23.5	24.0	24.4	24.9	25.2	25.5	25.8	25.9	25.5	25.0	24.4	23.8	23.2	22.5	21.9	21.2	20.7	20.5
85	10.5	10.9	11.3	11.7	12.1	12.6	13.1	13.6	14.1	14.7	15.3	15.8	16.4	16.9	17.4	17.8	18.2	18.6	18.9
90	6.09	11.0	16.6	22.5	28.8	35.2	41.6	47.8	53.7	56.7	59.2	61.4	63.3	64.9	66.3	67.4	68.4	69.3	72.1
95	16.5	26.7	38.2	50.7	63.8	77.3	90.8	104	116	123	128	132	136	138	140	142	142	143	144
100	35.9	48.1	62.0	77.1	93.1	110	126	142	158	166	174	181	186	191	194	197	198	199	200
105	60.3	74.4	90.4	108	126	146	165	184	201	212	220	228	234	240	244	247	249	249	251
110	86.4	102	120	140	161	183	205	226	247	258	268	277	284	290	295	298	301	302	303
115	113	130	150	172	195	219	244	267	290	303	315	325	333	340	346	349	352	353	353
120	139	158	179	202	227	252	278	304	328	343	356	367	377	385	392	396	399	400	399
125	166	185	207	230	256	282	308	335	360	376	390	403	414	424	431	437	440	442	439
130	192	211	232	255	280	305	332	358	383	400	415	429	441	452	460	466	471	472	468
135	217	234	254	275	298	322	347	371	395	412	429	443	456	468	477	484	489	491	486
140	241	255	272	291	311	333	354	376	397	415	431	446	459	471	480	488	493	496	490
145	262	275	289	304	321	339	358	376	394	410	425	438	451	462	471	479	484	487	481
150	282	292	303	315	329	343	358	372	387	400	412	424	434	444	451	458	462	465	460
155	299	307	315	324	334	345	356	367	377	387	397	406	414	421	427	432	436	438	433
160	314	319	325	331	338	345	353	360	368	374	381	387	392	397	401	405	407	408	405
165	327	330	333	337	341	345	350	354	359	363	366	370	373	376	378	380	381	382	380
170	336	337	339	341	343	345	347	349	351	353	354	356	357	359	360	360	361	361	360
175	341	341	342	343	343	344	345	346	346	347	347	347	348	348	348	348	348	348	348
180	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3535	3534	3534	3534
5	3517	3516	3516	3515	3515	3515	3515	3514	3514	3514	3514	3514	3514	3513	3513	3513	3512	3511	3510
10	3469	3469	3468	3467	3467	3466	3466	3465	3463	3461	3459	3457	3455	3453	3451	3450	3448	3447	3446
15	3392	3389	3386	3382	3379	3376	3373	3370	3366	3362	3357	3353	3349	3346	3342	3339	3336	3335	3333
20	3264	3258	3253	3247	3241	3235	3230	3224	3216	3208	3200	3192	3185	3178	3171	3166	3161	3159	3157
25	3064	3057	3050	3043	3036	3028	3021	3013	2999	2986	2972	2958	2945	2933	2922	2912	2903	2900	2899
30	2764	2755	2748	2741	2734	2727	2719	2711	2696	2680	2664	2648	2633	2618	2604	2591	2579	2573	2569
35	2212	2222	2234	2248	2262	2275	2284	2291	2258	2222	2184	2144	2104	2065	2029	1996	1969	1976	1989
40	1376	1428	1486	1547	1608	1665	1716	1756	1701	1636	1563	1486	1408	1331	1259	1194	1140	1171	1214
45	735	770	812	857	903	946	985	1016	972	921	864	804	743	683	627	577	536	561	594
50	310	331	354	380	405	430	452	471	449	424	395	365	334	304	275	250	229	243	261
55	174	183	193	205	216	227	237	245	237	228	218	206	195	183	172	163	154	159	165
60	135	136	137	139	140	142	144	145	144	142	140	138	136	133	131	129	127	127	127
65	103	103	102	102	101	101	100	99.9	99.6	99.3	99.0	98.7	98.4	98.1	97.8	97.5	97.1	96.2	95.4
70	67.7	67.4	67.1	66.9	66.7	66.5	66.3	66.1	65.6	65.2	64.6	64.1	63.6	63.1	62.5	62.0	61.5	60.9	60.2
75	37.9	37.9	37.9	37.9	38.0	38.1	38.1	38.2	37.8	37.4	37.0	36.6	36.1	35.6	35.2	34.7	34.3	33.9	33.6
80	20.5	20.4	20.5	20.5	20.5	20.5	20.6	20.6	20.3	20.0	19.7	19.4	19.1	18.8	18.5	18.2	17.9	17.7	17.5
85	19.2	19.4	19.5	19.5	19.3	19.1	18.8	18.3	17.1	15.7	14.3	12.9	11.4	10.0	8.68	7.44	6.34	6.10	6.01
90	74.8	77.1	79.0	80.4	81.2	81.3	80.4	78.7	70.6	61.8	52.5	42.9	33.4	24.2	15.6	7.87	1.34	2.89	5.67
95	145	145	145	144	142	138	134	129	116	102	87.1	72.6	58.4	44.8	32.3	21.3	12.2	14.8	19.3
100	200	199	197	194	190	185	179	171	155	138	121	104	87.0	71.1	56.5	43.6	32.9	35.6	40.6
105	251	250	248	244	239	233	226	217	198	179	159	139	120	102	84.8	69.9	57.5	60.8	66.7
110	302	301	298	294	288	280	272	261	240	219	196	174	152	132	113	96.6	83.0	87.2	94.5
115	352	349	344	338	331	322	311	298	276	253	229	205	182	160	141	124	110	115	124
120	396	392	385	377	368	356	344	329	306	281	257	232	209	187	167	150	136	143	153
125	434	428	419	409	397	384	369	353	329	305	280	256	233	212	192	176	163	169	178
130	462	453	443	431	417	402	385	368	345	321	298	275	253	234	216	201	189	195	204
135	478	467	455	442	427	410	393	374	353	331	310	290	270	253	237	224	215	220	228
140	481	470	458	443	428	411	394	376	357	338	319	302	285	270	257	246	238	243	250
145	472	462	450	436	422	406	390	374	358	342	327	312	299	287	276	267	261	264	269
150	452	443	433	421	409	396	383	369	356	344	332	321	310	301	293	286	281	284	287
155	428	420	412	403	394	384	373	363	354	345	336	328	321	314	309	304	300	302	304
160	401	396	391	384	378	371	364	357	351	345	339	334	329	325	321	318	316	317	318
165	377	374	371	367	363	359	355	351	348	344	341	338	336	333	331	329	328	329	330
170	359	358	356	354	352	351	349	347	345	344	342	341	340	339	338	338	337	337	337
175	348	347	347	346	346	345	345	344	344	343	343	343	342	342	342	342	342	341	341
180	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338

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:120.7V I:0.4090A P:49.20W PF:0.9900 Freq:60.00Hz Lamp Flux:6712.84x1 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	3533	3533	3533	3532	3532	3532	3532	3532	3532	3532	3532	3532	3533	3533	3534				
5	3508	3507	3506	3505	3504	3503	3503	3504	3504	3506	3507	3509	3511	3513	3516				
10	3445	3444	3444	3444	3444	3445	3446	3448	3450	3453	3456	3459	3463	3467	3472				
15	3332	3332	3332	3333	3335	3337	3340	3344	3349	3354	3360	3367	3375	3383	3392				
20	3157	3158	3159	3162	3166	3170	3176	3183	3191	3199	3209	3220	3232	3246	3260				
25	2899	2901	2905	2910	2916	2924	2933	2943	2954	2966	2980	2995	3011	3029	3048				
30	2566	2566	2567	2570	2575	2581	2590	2601	2614	2629	2645	2664	2685	2707	2732				
35	2007	2027	2051	2076	2103	2129	2154	2165	2175	2183	2189	2193	2195	2195	2194				
40	1265	1321	1381	1441	1500	1554	1601	1606	1600	1585	1561	1528	1485	1432	1370				
45	634	679	727	775	821	865	903	908	906	896	880	856	825	787	741				
50	283	306	331	356	380	402	421	421	418	410	399	383	363	339	311				
55	172	180	188	197	205	212	219	218	216	213	209	202	195	185	175				
60	127	128	128	129	129	130	131	132	132	132	133	133	134	134	135				
65	94.5	93.7	93.0	92.4	92.0	91.7	91.6	92.2	93.0	94.0	95.2	96.7	98.4	100	102				
70	59.7	59.2	58.8	58.5	58.3	58.2	58.3	58.8	59.4	60.2	61.2	62.3	63.6	65.1	66.8				
75	33.3	33.0	32.8	32.7	32.6	32.6	32.7	33.0	33.3	33.7	34.2	34.7	35.4	36.1	37.0				
80	17.4	17.2	17.2	17.1	17.1	17.1	17.2	17.3	17.5	17.8	18.0	18.3	18.7	19.1	19.5				
85	6.07	6.27	6.57	6.98	7.48	8.05	8.67	9.13	9.64	10.2	10.8	11.4	12.1	12.8	13.5				
90	9.47	14.1	19.2	24.7	30.4	36.0	41.3	43.1	44.5	45.3	45.6	45.5	44.7	43.5	41.8				
95	25.4	32.8	41.2	50.2	59.5	68.8	77.7	81.7	85.1	87.8	89.9	91.3	92.0	92.1	91.5				
100	47.4	55.8	65.4	75.7	86.5	97.3	108	113	117	121	124	126	128	128	129				
105	74.7	84.4	95.5	107	120	132	144	149	153	157	159	161	162	162	161				
110	104	116	129	143	157	171	185	191	195	199	201	202	202	201	199				
115	135	148	163	179	195	211	227	233	238	242	245	246	246	245	242				
120	165	180	196	213	231	249	265	273	278	283	286	288	288	287	285				
125	191	205	221	239	257	274	292	300	308	314	319	323	326	327	328				
130	216	229	245	262	279	297	314	323	332	339	346	352	357	361	364				
135	239	252	266	282	298	315	331	341	350	359	366	373	380	386	391				
140	259	270	282	296	310	325	340	349	359	368	376	384	392	400	407				
145	276	285	295	306	317	329	342	350	359	368	376	385	393	401	410				
150	292	299	306	314	323	332	342	349	356	362	369	376	383	390	397				
155	307	312	317	322	328	335	341	346	351	356	361	366	372	377	382				
160	321	323	327	330	334	338	342	345	349	352	355	358	361	365	368				
165	331	332	334	336	338	340	343	345	346	348	350	352	354	355	357				
170	338	338	339	339	340	341	342	343	344	344	345	346	347	348	349				
175	341	342	342	342	342	342	342	342	342	343	343	343	343	344	344				
180	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338				

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: