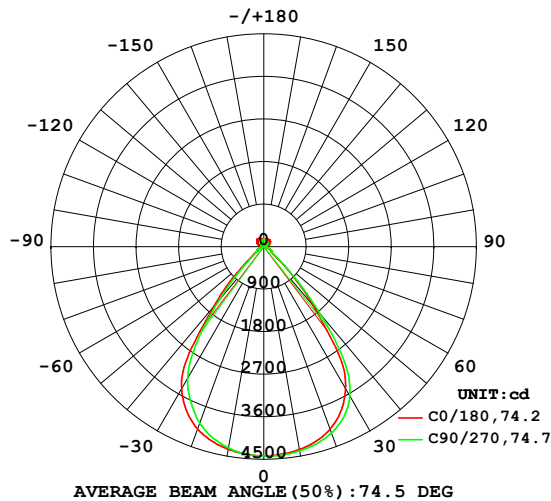


LUMINAIRE PHOTOMETRIC TEST REPORT

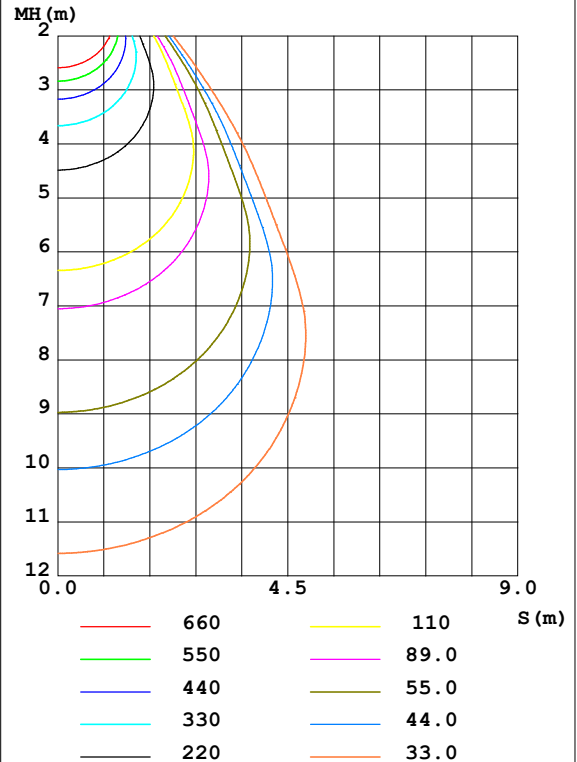
Test:U:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.62 lm/W			
MODEL		I _{max} (cd)	4433	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)	7169.5	η UP,DN(C0-180)	4.5,47.8
NOMINAL FLUX(lm)	7169.49	CIE CLASS	DIRECT	η UP,DN(C180-360)	4.6,43.1
LAMPS INSIDE	1	η up(%)	9.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	90.9	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:

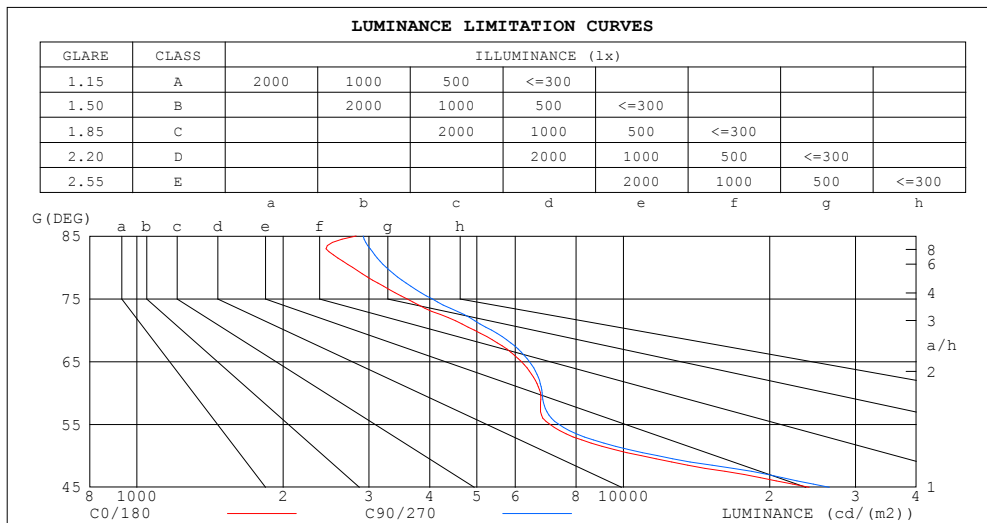
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4355	4367	4385	4383	4351	4338	4322	4325	0- 10	419.2	419.2	5.85,5.85
20	4108	4150	4193	4185	4105	4036	3972	3995	10- 20	1199	1618	22.6,22.6
30	3464	3621	3640	3706	3477	3384	3227	3274	20- 30	1760	3378	47.1,47.1
40	1627	2505	1869	2672	1644	2200	1437	2019	30- 40	1756	5134	71.6,71.6
50	349.6	738.1	377.9	875.4	361.7	618.3	288.8	517.3	40- 50	914.4	6048	84.4,84.4
60	169.0	201.2	170.3	227.2	170.3	183.7	161.5	163.8	50- 60	268.5	6317	88.1,88.1
70	84.41	87.99	91.72	97.94	85.82	82.80	77.27	72.58	60- 70	128.6	6445	89.9,89.9
80	24.12	26.66	28.29	31.48	24.82	24.91	22.39	20.61	70- 80	53.34	6499	90.6,90.6
90	18.11	10.82	2.240	25.37	30.33	35.44	0.5866	19.86	80- 90	16.74	6515	90.9,90.9
100	55.04	42.21	11.24	68.23	82.85	72.01	14.16	47.45	90-100	37.42	6553	91.4,91.4
110	86.10	73.79	32.08	106.0	125.7	109.3	35.70	79.67	100-110	68.35	6621	92.4,92.4
120	123.3	106.4	54.34	140.9	169.2	139.7	58.57	113.2	110-120	96.73	6718	93.7,93.7
130	159.8	129.0	77.16	164.1	200.9	158.5	81.66	136.2	120-130	113.3	6831	95.3,95.3
140	180.0	141.8	99.32	171.6	212.3	163.4	103.8	146.1	130-140	112.8	6944	96.9,96.9
150	175.7	147.4	119.4	168.0	200.3	160.9	123.3	149.3	140-150	96.72	7041	98.2,98.2
160	162.3	149.6	135.3	160.2	177.0	156.1	138.3	149.2	150-160	71.45	7112	99.2,99.2
170	152.7	150.2	145.7	153.3	157.2	152.3	147.5	149.3	160-170	43.14	7155	99.8,99.8
180	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	170-180	14.37	7169	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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2823	2921
80	2778	3259
75	3590	4042
70	4936	5364
65	6176	6413
60	6760	6810
55	7062	7366
50	10879	11757
45	24108	26510

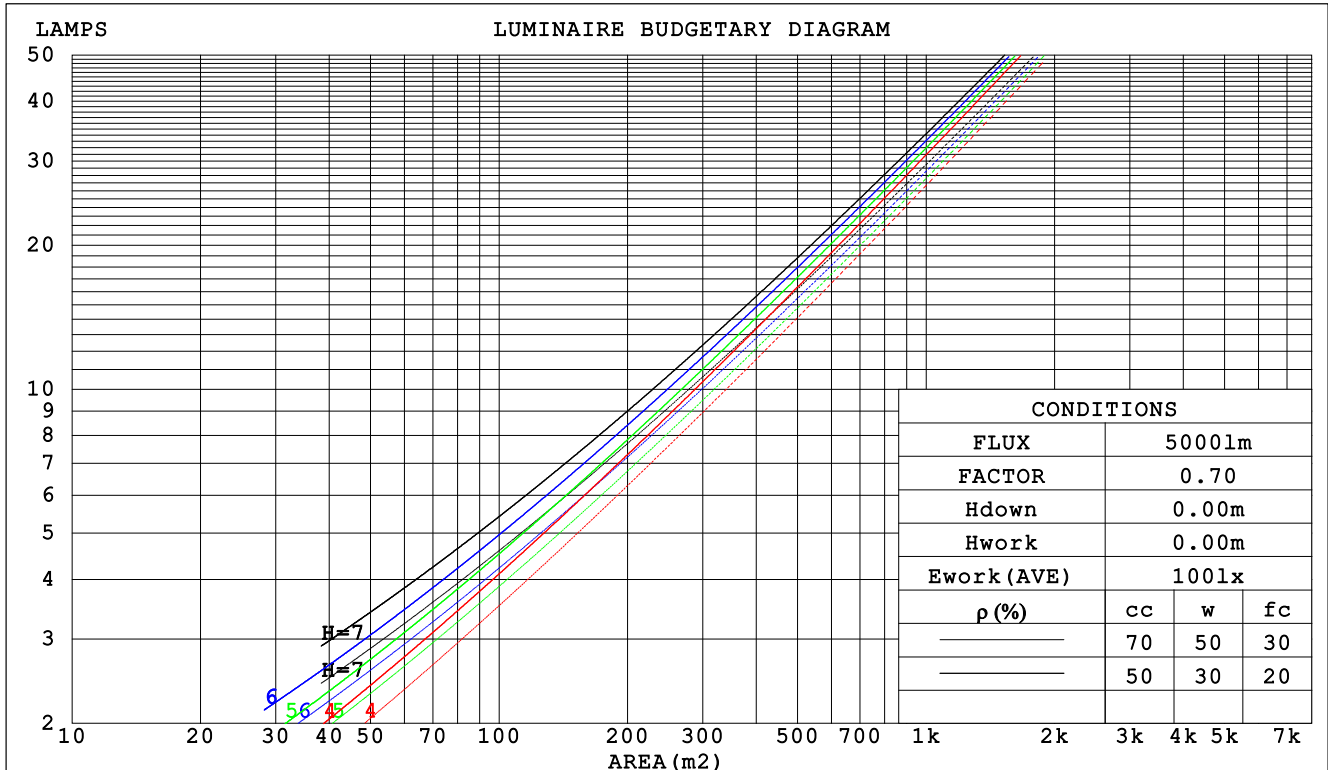
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	1.07	1.04	1.01	1.04	1.01	.99	.98	.96	.94	.93	.91	.90	.88	.87	.85	.83
2.0	.97	.92	.88	.95	.90	.87	.90	.86	.83	.86	.83	.80	.81	.79	.77	.75
3.0	.89	.83	.78	.87	.81	.77	.83	.78	.75	.79	.75	.72	.76	.73	.70	.68
4.0	.81	.75	.70	.80	.74	.69	.76	.71	.67	.73	.69	.65	.70	.67	.64	.62
5.0	.75	.68	.63	.73	.67	.62	.70	.65	.61	.68	.63	.59	.65	.61	.58	.56
6.0	.69	.62	.57	.68	.61	.56	.65	.59	.55	.63	.58	.54	.61	.56	.53	.51
7.0	.64	.57	.52	.63	.56	.51	.60	.55	.50	.58	.53	.50	.56	.52	.49	.47
8.0	.59	.52	.47	.58	.52	.47	.56	.50	.46	.54	.49	.46	.53	.48	.45	.43
9.0	.55	.48	.44	.54	.48	.43	.52	.47	.43	.51	.46	.42	.49	.45	.41	.40
10.0	.51	.45	.40	.50	.44	.40	.49	.43	.39	.48	.42	.39	.46	.42	.38	.37



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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm					
NAME: 4FT			TYPE:3500K 1.9		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	.213	.121	.038	.203	.116	.037	.185	.106	.034	.169	.097	.031	.154	.089	.029		
2.0	.205	.112	.034	.196	.108	.033	.181	.100	.031	.166	.093	.029	.153	.086	.027		
3.0	.195	.104	.031	.187	.100	.030	.173	.094	.029	.160	.088	.027	.149	.082	.025		
4.0	.185	.096	.028	.178	.093	.028	.166	.088	.026	.154	.083	.025	.143	.078	.024		
5.0	.175	.089	.026	.169	.087	.025	.158	.082	.024	.148	.078	.023	.138	.074	.022		
6.0	.166	.083	.024	.161	.081	.023	.151	.077	.022	.141	.073	.022	.133	.070	.021		
7.0	.158	.078	.022	.153	.076	.022	.144	.073	.021	.135	.069	.020	.127	.066	.019		
8.0	.150	.073	.021	.146	.072	.020	.137	.069	.020	.130	.066	.019	.122	.063	.018		
9.0	.143	.069	.019	.139	.068	.019	.131	.065	.018	.124	.062	.018	.117	.060	.017		
10.0	.136	.065	.018	.133	.064	.018	.126	.062	.017	.119	.059	.017	.113	.057	.016		

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	.260	.260	.260	.222	.222	.222	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.244	.227	.212	.209	.195	.183	.143	.134	.126	.082	.078	.073	.026	.025	.024	
2.0	.231	.203	.179	.198	.175	.155	.136	.121	.108	.078	.070	.063	.025	.023	.021	
3.0	.221	.185	.156	.189	.159	.135	.130	.111	.095	.075	.065	.056	.024	.021	.018	
4.0	.212	.171	.139	.182	.148	.121	.125	.103	.085	.072	.060	.050	.023	.020	.017	
5.0	.205	.160	.127	.176	.138	.110	.121	.097	.078	.070	.057	.046	.023	.019	.015	
6.0	.198	.151	.118	.170	.131	.102	.117	.092	.073	.068	.054	.043	.022	.018	.014	
7.0	.192	.144	.111	.165	.125	.096	.114	.088	.068	.066	.052	.041	.021	.017	.013	
8.0	.186	.138	.105	.160	.120	.092	.111	.084	.065	.065	.050	.039	.021	.016	.013	
9.0	.181	.133	.101	.156	.116	.088	.108	.081	.063	.063	.048	.037	.020	.016	.012	
10.0	.177	.129	.098	.152	.112	.085	.106	.079	.061	.062	.047	.036	.020	.015	.012	

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm										
NAME: 4FT					TYPE:3500K 1.9			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	21.2	22.2	21.5	22.6	22.9	21.0	22.1	21.4	22.4	22.8
3H	21.1	22.1	21.5	22.4	22.8	21.0	22.0	21.4	22.3	22.7
4H	21.0	22.0	21.5	22.3	22.7	20.9	21.8	21.4	22.2	22.6
6H	21.0	21.8	21.4	22.2	22.6	20.9	21.7	21.3	22.1	22.6
8H	20.9	21.7	21.4	22.1	22.6	20.8	21.6	21.3	22.1	22.5
12H	20.9	21.6	21.3	22.1	22.5	20.8	21.6	21.3	22.0	22.5
4H 2H	21.0	21.9	21.4	22.2	22.7	20.8	21.7	21.3	22.1	22.5
3H	20.9	21.7	21.4	22.1	22.6	20.8	21.6	21.3	22.0	22.5
4H	20.9	21.6	21.4	22.1	22.6	20.8	21.5	21.3	22.0	22.5
6H	20.9	21.5	21.4	22.0	22.5	20.8	21.4	21.3	21.9	22.4
8H	20.8	21.4	21.4	21.9	22.4	20.8	21.3	21.3	21.8	22.4
12H	20.8	21.3	21.3	21.8	22.4	20.7	21.2	21.3	21.8	22.3
8H 4H	20.8	21.3	21.3	21.9	22.4	20.7	21.3	21.2	21.8	22.3
6H	20.7	21.2	21.3	21.8	22.4	20.7	21.1	21.3	21.7	22.3
8H	20.7	21.1	21.3	21.7	22.3	20.7	21.1	21.3	21.6	22.3
12H	20.7	21.0	21.3	21.6	22.3	20.6	21.0	21.2	21.6	22.2
12H 4H	20.7	21.2	21.3	21.8	22.4	20.6	21.2	21.2	21.7	22.3
6H	20.7	21.1	21.3	21.7	22.3	20.6	21.0	21.2	21.6	22.2
8H	20.7	21.0	21.3	21.6	22.3	20.6	21.0	21.2	21.6	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 5.3					+ 2.2 / - 5.2				
1.5H	+ 3.0 / - 5.4					+ 3.1 / - 5.0				
2.0H	+ 4.5 / - 3.3					+ 4.1 / - 2.8				

CIE Pub.117 Corrected 7169 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.8)

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

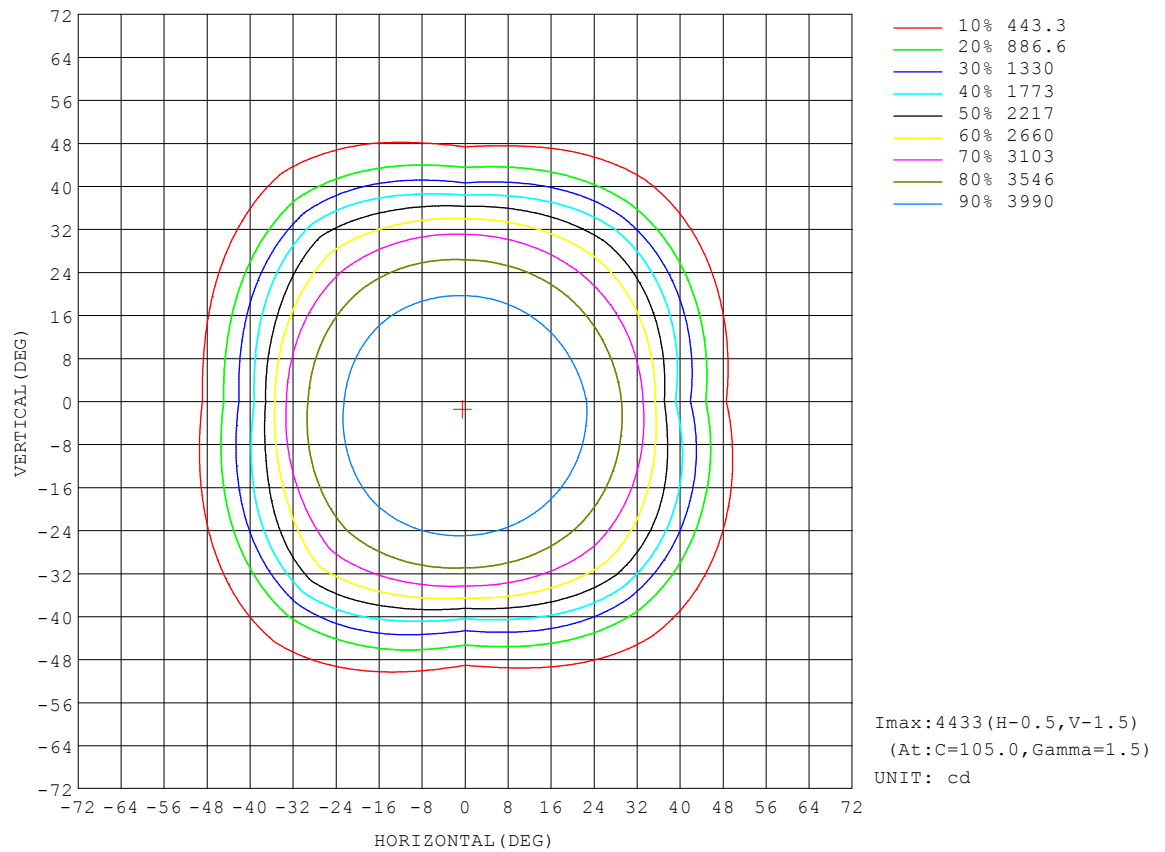
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	66	61	73	65	60	71	64	60	55
0.80	82	75	70	81	74	69	79	73	68	63
1.00	89	81	76	87	80	76	85	80	75	69
1.25	94	87	82	92	86	82	89	84	80	74
1.50	98	91	87	96	90	86	92	87	84	77
2.00	102	96	92	100	94	91	95	91	88	80
2.50	104	99	95	102	97	94	97	93	91	82
3.00	106	102	98	104	100	96	99	96	93	84
4.00	109	105	102	106	103	100	101	98	96	86
5.00	111	107	105	107	105	102	102	100	98	87
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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

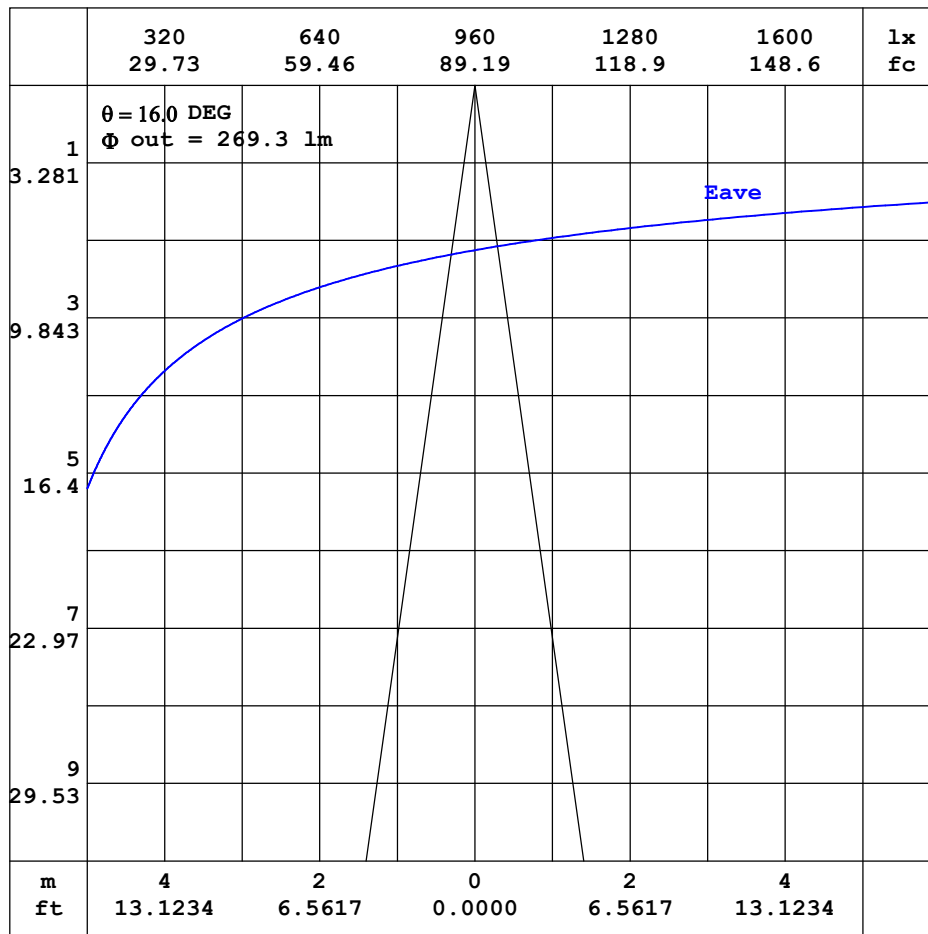


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



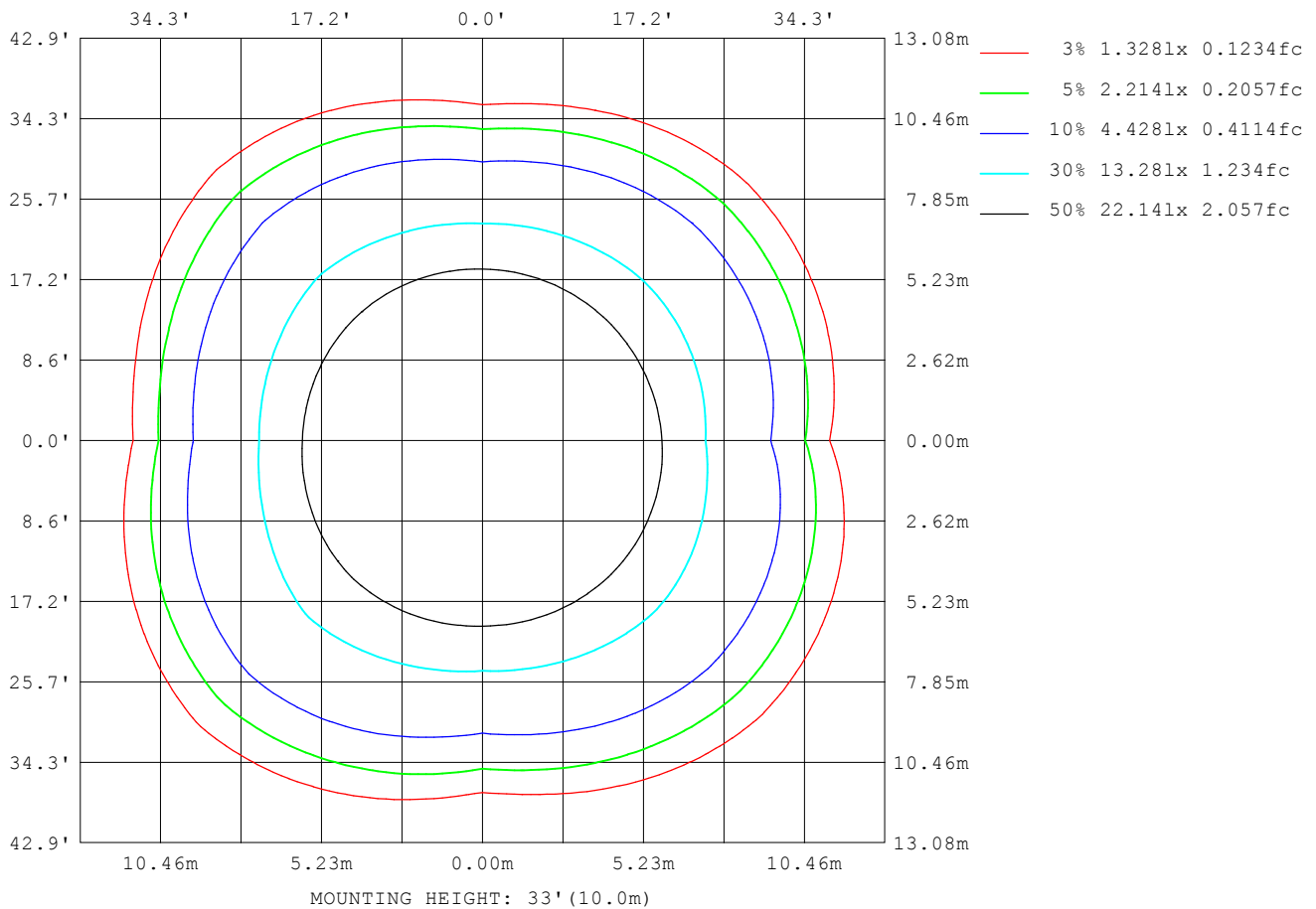
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

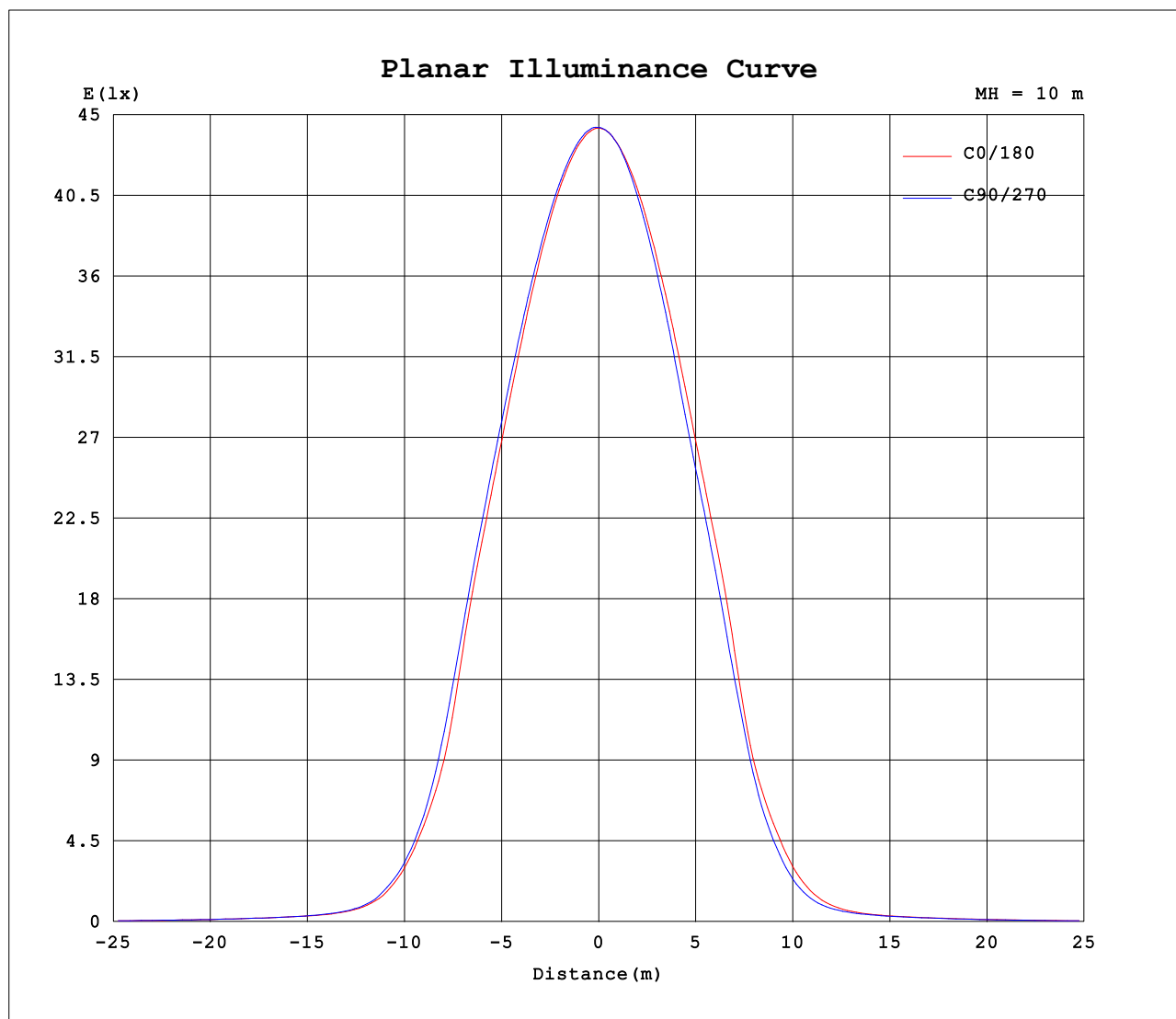
AvgL	cd/m2
L_0~180 (65) av	6195
L_0~180 (75) av	3619
L_0~180 (85) av	3051
L_90~270 (65) av	6094
L_90~270 (75) av	3682
L_90~270 (85) av	2369
L_45 (65) av	6094
L_45 (75) av	3818
L_45 (85) av	2908

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm																		
NAME: 4FT									TYPE:3500K 1.9					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	4427	4427	4426	4426	4426	4426	4426	4426	4426	4426	4426	4426	4427	4427	4427	4428	4428	4428	4429
5	4407	4408	4410	4411	4412	4414	4415	4416	4417	4418	4419	4420	4421	4422	4422	4423	4424	4424	4424
10	4355	4356	4357	4358	4359	4361	4362	4363	4365	4367	4369	4371	4373	4376	4378	4380	4382	4383	4385
15	4263	4266	4268	4270	4273	4275	4278	4281	4283	4286	4290	4294	4298	4301	4305	4308	4311	4314	4316
20	4108	4113	4117	4122	4127	4131	4136	4141	4145	4150	4156	4161	4167	4172	4177	4182	4186	4190	4193
25	3852	3863	3874	3884	3893	3903	3912	3920	3929	3936	3944	3952	3959	3965	3971	3976	3981	3986	3989
30	3464	3489	3511	3532	3551	3569	3584	3598	3611	3621	3627	3631	3634	3636	3637	3638	3638	3639	3640
35	2747	2821	2888	2947	2999	3045	3083	3114	3137	3154	3144	3129	3109	3087	3063	3039	3016	2997	2982
40	1627	1799	1953	2088	2204	2302	2381	2441	2483	2505	2456	2391	2316	2234	2150	2067	1990	1923	1869
45	852	1003	1136	1252	1351	1433	1498	1545	1576	1589	1532	1461	1382	1297	1211	1128	1052	987	937
50	350	430	501	562	615	658	692	717	732	738	706	666	622	575	528	482	440	405	378
55	203	236	266	292	314	332	346	356	363	365	351	334	315	295	275	256	238	223	211
60	169	176	182	187	191	195	197	200	201	201	198	194	190	186	182	178	175	172	170
65	131	130	130	130	130	130	130	130	130	131	131	131	132	132	133	133	134	135	136
70	84.4	84.8	85.2	85.6	86.0	86.4	86.8	87.2	87.6	88.0	88.4	88.7	89.1	89.5	89.9	90.3	90.8	91.2	91.7
75	46.5	47.1	47.7	48.3	48.9	49.4	49.8	50.2	50.6	51.0	51.1	51.3	51.4	51.5	51.6	51.7	51.9	52.1	52.3
80	24.1	24.4	24.8	25.1	25.4	25.6	25.9	26.2	26.4	26.7	26.8	27.0	27.2	27.4	27.5	27.7	27.9	28.1	28.3
85	12.3	12.2	12.1	12.0	11.9	11.9	11.9	11.8	11.8	11.8	11.9	11.9	12.0	12.0	12.2	12.3	12.5	12.6	12.7
90	18.1	17.4	16.6	15.8	15.0	14.2	13.4	12.5	11.7	10.8	9.32	7.86	6.47	5.20	4.10	3.20	2.57	2.27	2.24
95	40.3	39.8	39.1	38.1	37.1	35.8	34.4	32.8	31.0	29.0	25.3	21.5	17.7	14.2	10.9	8.13	5.86	4.25	3.43
100	55.0	54.5	53.8	52.8	51.6	50.2	48.5	46.6	44.5	42.2	37.7	33.2	28.7	24.4	20.5	17.0	14.3	12.3	11.2
105	69.7	69.4	68.8	67.9	66.8	65.3	63.6	61.6	59.3	56.8	51.7	46.5	41.3	36.4	31.9	27.9	24.7	22.4	21.2
110	86.1	86.2	85.9	85.3	84.3	82.9	81.2	79.1	76.6	73.8	68.0	62.0	56.0	50.3	45.0	40.3	36.5	33.7	32.1
115	104	105	104	104	103	101	99.3	97.0	94.2	91.0	84.4	77.6	70.8	64.2	58.2	52.8	48.4	45.1	43.2
120	123	123	123	122	120	118	116	113	110	106	99.2	91.8	84.4	77.3	70.7	64.9	60.1	56.5	54.3
125	142	141	140	138	136	133	130	127	123	119	111	104	96.1	88.8	82.1	76.2	71.3	67.7	65.7
130	160	157	155	152	149	145	142	138	133	129	121	114	106	99.1	92.6	86.9	82.3	79.0	77.2
135	172	168	165	161	158	154	150	146	141	137	129	122	115	108	102	97.2	93.0	90.0	88.5
140	180	176	172	168	164	159	155	151	146	142	135	129	122	116	111	107	103	101	99.3
145	181	177	173	169	165	161	157	153	149	145	139	134	129	124	119	116	113	111	110
150	176	173	169	166	163	160	157	154	151	147	143	138	134	130	127	124	122	120	119
155	169	167	165	162	160	158	156	153	151	149	145	142	139	136	134	131	130	129	128
160	162	161	160	158	157	155	154	153	151	150	147	145	143	141	139	138	137	136	135
165	157	156	155	155	154	153	152	152	151	150	149	147	146	145	144	143	142	142	141
170	153	152	152	152	152	152	151	151	151	150	150	149	148	148	147	147	146	146	146
175	150	150	150	150	150	150	150	150	150	150	150	150	150	149	149	149	149	149	148
180	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm																		
NAME: 4FT									TYPE:3500K 1.9					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	4429	4429	4429	4429	4429	4429	4429	4429	4429	4429	4429	4428	4428	4428	4428	4427	4427	4427	4427
5	4425	4425	4425	4425	4425	4425	4424	4423	4423	4421	4419	4417	4415	4413	4411	4409	4407	4405	4404
10	4386	4387	4387	4387	4387	4386	4385	4384	4383	4380	4376	4373	4369	4366	4362	4358	4355	4351	4349
15	4317	4317	4317	4317	4316	4314	4312	4310	4307	4302	4297	4292	4286	4280	4274	4268	4261	4256	4251
20	4195	4196	4197	4197	4196	4194	4192	4189	4185	4178	4170	4162	4153	4144	4134	4124	4114	4105	4097
25	3994	3997	4000	4002	4003	4002	4000	3997	3991	3979	3966	3951	3936	3919	3903	3886	3869	3852	3842
30	3651	3663	3674	3684	3693	3700	3705	3707	3706	3687	3665	3641	3615	3587	3559	3531	3503	3477	3463
35	3015	3053	3093	3133	3172	3208	3239	3263	3279	3234	3181	3122	3058	2993	2927	2863	2803	2749	2750
40	1947	2038	2138	2243	2347	2446	2536	2613	2672	2585	2481	2364	2238	2108	1979	1856	1743	1644	1681
45	1022	1120	1229	1343	1457	1566	1667	1755	1825	1751	1658	1552	1437	1316	1194	1077	967	871	894
50	425	480	541	604	668	730	786	836	875	836	786	729	666	601	535	472	413	362	377
55	231	254	280	307	334	360	384	405	422	405	384	360	333	306	278	252	227	205	212
60	176	182	189	197	204	211	217	223	227	223	218	212	205	198	191	183	177	170	170
65	137	138	139	140	141	142	143	144	144	143	142	141	139	138	136	135	133	131	130
70	92.7	93.6	94.5	95.4	96.2	96.9	97.4	97.8	97.9	97.0	95.9	94.6	93.2	91.7	90.2	88.7	87.2	85.8	85.3
75	53.2	54.1	55.0	55.9	56.7	57.5	58.1	58.5	58.7	57.8	56.7	55.4	54.1	52.6	51.2	49.8	48.4	47.2	47.0
80	28.8	29.3	29.7	30.2	30.6	30.9	31.2	31.4	31.5	30.9	30.3	29.5	28.7	27.9	27.1	26.3	25.5	24.8	24.7
85	13.0	13.4	13.7	14.1	14.4	14.7	15.0	15.3	15.5	15.4	15.4	15.2	15.1	14.9	14.8	14.6	14.4	14.3	14.4
90	4.16	6.40	8.89	11.6	14.4	17.2	20.0	22.8	25.4	26.5	27.4	28.1	28.7	29.2	29.6	29.9	30.1	30.3	31.6
95	7.17	11.7	16.7	22.3	28.1	34.1	40.0	45.8	51.3	53.8	55.9	57.5	58.8	59.8	60.4	60.7	60.9	60.7	61.4
100	15.6	20.9	26.9	33.5	40.4	47.5	54.6	61.6	68.2	71.6	74.5	77.0	79.0	80.5	81.6	82.4	82.8	82.9	83.3
105	26.2	32.2	39.1	46.6	54.6	62.7	70.9	78.9	86.5	90.5	93.9	96.7	99.1	101	102	103	104	104	104
110	37.7	44.5	52.3	60.8	69.8	79.0	88.3	97.4	106	111	114	118	120	123	124	125	126	126	126
115	49.3	56.7	65.3	74.6	84.6	94.8	105	115	125	130	135	139	142	144	146	147	148	148	148
120	60.7	68.5	77.5	87.4	97.9	109	120	131	141	147	152	157	161	164	166	168	169	169	169
125	72.1	80.1	89.2	99.3	110	121	132	144	154	161	167	172	176	180	183	185	186	187	186
130	83.4	91.1	100	110	120	131	142	153	164	171	178	183	188	193	196	199	200	201	199
135	94.2	101	110	119	129	139	149	160	170	177	184	190	195	200	204	207	209	210	207
140	104	111	118	126	135	144	153	162	172	179	185	192	197	202	206	209	211	212	210
145	114	119	125	132	139	147	155	163	171	177	183	189	194	199	202	206	208	209	206
150	123	127	132	137	143	149	155	162	168	173	179	183	188	191	195	197	199	200	198
155	130	134	137	141	145	150	155	160	164	168	172	176	179	182	185	187	188	189	187
160	137	139	142	144	147	150	154	157	160	163	166	168	170	172	174	175	176	177	176
165	142	144	145	147	149	150	152	154	156	158	160	161	162	163	164	165	166	166	165
170	146	147	148	149	149	150	151	152	153	154	155	155	156	156	157	157	157	157	157
175	149	149	149	150	150	150	151	151	151	151	152	152	152	152	152	152	152	152	152
180	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm																		
NAME: 4FT									TYPE:3500K 1.9					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	4427	4426	4426	4426	4426	4426	4426	4426	4426	4426	4427	4427	4427	4428	4428	4428	4429	4429	4429
5	4404	4403	4403	4402	4402	4402	4402	4402	4402	4402	4402	4402	4402	4403	4403	4403	4402	4402	4401
10	4348	4346	4344	4343	4342	4340	4339	4338	4336	4334	4332	4330	4328	4326	4325	4323	4322	4321	4321
15	4247	4243	4239	4235	4232	4228	4224	4221	4216	4212	4207	4203	4199	4195	4191	4188	4186	4184	4183
20	4089	4081	4073	4065	4058	4050	4043	4036	4027	4018	4010	4002	3994	3987	3981	3976	3972	3970	3969
25	3832	3822	3812	3803	3794	3784	3775	3765	3749	3733	3718	3702	3688	3674	3662	3651	3642	3641	3641
30	3451	3440	3431	3421	3412	3403	3394	3384	3365	3345	3326	3306	3288	3270	3254	3239	3227	3223	3222
35	2758	2771	2786	2803	2821	2836	2849	2857	2817	2773	2725	2676	2627	2580	2536	2497	2465	2477	2496
40	1733	1797	1869	1944	2018	2089	2151	2200	2132	2051	1961	1865	1768	1673	1584	1504	1437	1477	1531
45	931	978	1033	1091	1150	1205	1255	1294	1238	1172	1099	1022	943	866	793	728	674	704	745
50	400	429	461	496	531	564	594	618	590	555	517	476	434	393	354	319	289	304	325
55	221	233	247	262	277	292	305	316	306	294	280	264	249	233	219	205	194	199	206
60	171	172	174	176	178	180	182	184	182	180	177	175	172	169	166	164	161	161	161
65	130	129	128	128	127	127	126	126	126	125	125	124	124	124	123	123	122	121	120
70	84.8	84.4	84.0	83.8	83.5	83.3	83.1	82.8	82.3	81.7	81.1	80.5	79.8	79.2	78.5	77.9	77.3	76.4	75.6
75	46.8	46.8	46.9	47.0	47.1	47.3	47.4	47.5	47.1	46.7	46.2	45.7	45.2	44.6	44.1	43.5	43.0	42.5	42.0
80	24.6	24.6	24.6	24.6	24.7	24.8	24.9	24.9	24.7	24.5	24.2	23.9	23.6	23.3	23.0	22.7	22.4	22.1	21.8
85	14.5	14.7	14.8	14.9	14.9	14.9	14.8	14.7	14.0	13.3	12.5	11.7	10.9	10.1	9.29	8.57	7.92	7.73	7.61
90	32.9	34.0	35.0	35.7	36.2	36.3	36.1	35.4	31.8	27.8	23.6	19.3	15.0	10.8	6.97	3.51	0.59	1.43	2.84
95	61.9	62.1	62.0	61.6	60.8	59.5	57.8	55.5	49.9	43.9	37.6	31.4	25.2	19.3	13.9	9.20	5.26	6.44	8.47
100	83.4	83.1	82.5	81.4	79.8	77.7	75.1	72.0	65.4	58.4	51.1	43.9	36.8	30.1	24.0	18.6	14.2	15.5	17.8
105	104	104	103	102	99.8	97.4	94.3	90.7	83.1	75.1	66.9	58.6	50.6	43.0	36.0	29.8	24.7	26.2	28.8
110	126	125	124	122	120	117	114	109	101	91.8	82.5	73.3	64.3	55.8	48.1	41.3	35.7	37.6	40.8
115	148	146	145	142	139	135	131	126	117	107	96.7	86.8	77.2	68.1	59.9	52.7	46.9	49.3	53.0
120	167	166	163	160	156	151	146	140	130	120	109	98.9	89.0	79.8	71.5	64.3	58.6	61.2	65.3
125	184	182	178	174	169	164	158	151	141	131	120	110	100	91.0	82.8	75.7	70.1	72.7	76.8
130	197	193	189	184	179	172	166	159	149	139	129	119	109	101	93.2	86.7	81.7	84.2	88.2
135	204	200	195	190	184	177	170	162	153	144	135	126	117	110	103	97.4	92.9	95.1	98.6
140	206	202	197	191	185	178	171	163	155	147	139	132	124	118	112	107	104	106	108
145	203	199	194	189	183	176	170	163	156	149	143	136	131	125	121	117	114	115	117
150	195	191	187	183	177	172	167	161	156	150	145	140	136	132	128	125	123	124	126
155	185	182	179	175	171	167	163	159	155	151	147	144	140	137	135	133	131	132	133
160	174	172	170	167	165	162	159	156	154	151	149	146	144	142	141	139	138	139	139
165	164	163	162	160	159	157	156	154	152	151	150	148	147	146	145	144	144	144	144
170	157	156	156	155	154	154	153	152	152	151	150	150	149	149	148	148	147	147	148
175	152	152	152	152	152	152	151	151	151	151	151	151	150	150	150	150	150	150	150
180	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145

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:120.8V I:0.3950A P:47.60W PF:0.9900 Freq:60.00Hz Lamp Flux:7169.49x1 lm																	
NAME: 4FT									TYPE:3500K 1.9						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	4429	4429	4429	4429	4429	4429	4429	4429	4429	4429	4428	4428	4428	4428	4427				
5	4400	4400	4399	4398	4398	4398	4397	4398	4398	4399	4400	4401	4402	4404	4405				
10	4321	4321	4321	4322	4323	4324	4325	4327	4330	4332	4335	4338	4342	4346	4350				
15	4182	4182	4182	4184	4186	4188	4192	4197	4202	4208	4216	4224	4232	4242	4252				
20	3969	3971	3973	3977	3982	3988	3995	4003	4012	4022	4034	4047	4060	4075	4091				
25	3644	3648	3654	3662	3672	3683	3695	3707	3721	3736	3752	3769	3788	3808	3829				
30	3223	3226	3232	3239	3249	3261	3274	3288	3304	3322	3341	3362	3385	3410	3436				
35	2521	2550	2583	2617	2652	2687	2720	2734	2746	2754	2760	2763	2764	2761	2756				
40	1596	1667	1742	1818	1892	1960	2019	2023	2016	1996	1965	1921	1866	1798	1719				
45	795	850	908	968	1026	1080	1127	1133	1129	1117	1095	1064	1025	976	919				
50	350	378	408	438	467	494	517	518	514	505	492	473	450	421	388				
55	215	224	235	245	255	264	272	271	269	265	259	252	242	231	217				
60	161	161	161	162	162	163	164	164	165	165	166	166	167	168	168				
65	119	117	117	116	115	115	114	115	116	117	119	120	123	125	128				
70	74.8	74.1	73.6	73.1	72.7	72.6	72.6	73.1	73.8	74.7	75.8	77.1	78.6	80.4	82.3				
75	41.6	41.2	40.9	40.6	40.5	40.4	40.4	40.6	41.0	41.4	42.0	42.7	43.5	44.4	45.4				
80	21.5	21.2	21.0	20.8	20.7	20.6	20.6	20.7	20.9	21.2	21.5	21.9	22.4	22.9	23.5				
85	7.57	7.61	7.72	7.88	8.11	8.38	8.69	8.95	9.25	9.58	9.94	10.3	10.8	11.3	11.8				
90	4.71	6.94	9.42	12.1	14.8	17.4	19.9	20.7	21.3	21.6	21.7	21.5	21.0	20.3	19.3				
95	11.2	14.5	18.2	22.1	26.3	30.4	34.3	36.1	37.7	38.9	39.9	40.5	40.9	41.0	40.8				
100	20.9	24.7	28.9	33.4	38.2	42.9	47.5	49.6	51.4	52.8	54.0	54.8	55.4	55.6	55.5				
105	32.2	36.4	41.1	46.2	51.5	56.8	61.9	64.2	66.2	67.8	69.0	69.9	70.4	70.5	70.3				
110	44.9	49.9	55.5	61.5	67.7	73.8	79.7	82.2	84.3	86.0	87.2	87.9	88.1	87.9	87.2				
115	57.8	63.5	69.8	76.6	83.5	90.4	97.0	100.0	102	104	106	106	107	106	106				
120	70.6	76.8	83.7	91.0	98.6	106	113	117	119	122	123	124	125	125	124				
125	82.0	88.3	95.2	103	110	118	126	129	133	135	138	140	141	142	142				
130	93.3	99.4	106	113	121	129	136	140	144	148	151	153	155	157	159				
135	103	109	115	121	128	135	142	147	151	154	158	161	164	167	169				
140	112	117	122	127	134	140	146	150	154	158	162	166	170	173	177				
145	120	124	128	133	138	143	148	152	156	159	163	167	170	174	177				
150	128	131	134	137	141	145	149	152	155	158	161	164	167	170	173				
155	135	136	139	141	144	147	149	152	154	156	158	160	162	165	167				
160	140	141	143	144	146	147	149	151	152	153	155	156	158	159	161				
165	145	145	146	147	148	148	149	150	151	152	153	153	154	155	156				
170	148	148	148	148	149	149	149	150	150	150	151	151	151	152	152				
175	149	149	149	149	149	149	149	149	149	150	150	150	150	150	150				
180	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145				

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: