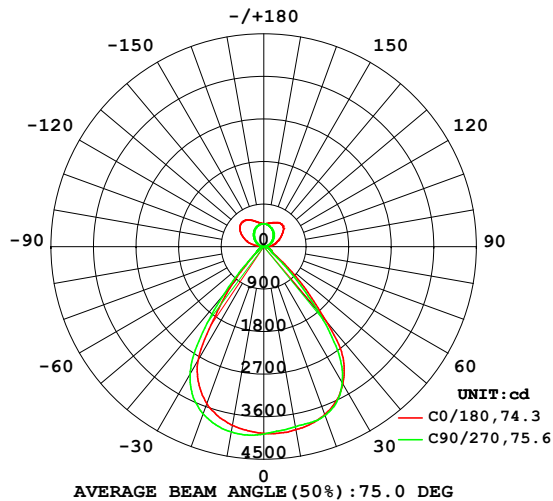


LUMINAIRE PHOTOMETRIC TEST REPORT

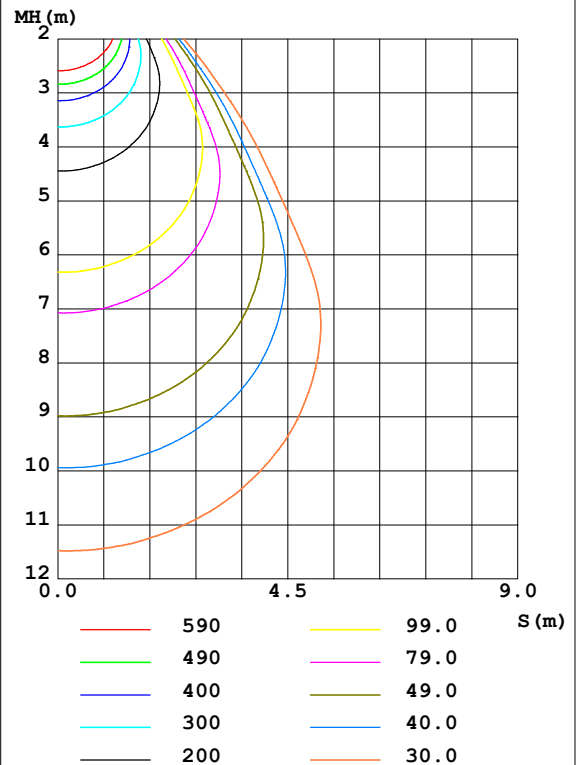
Test:U:120.6V I:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.30 lm/W			
MODEL		I _{max} (cd)	4009	S/MH(C0/180)	1.17
NOMINAL POWER(W)	60W	LOR(%)	100.0	S/MH(C90/270)	1.06
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	8144.6	η UP,DN(C0-180)	12.6,38.6
NOMINAL FLUX(lm)	8144.6	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	13.4,35.3
LAMPS INSIDE	1	η up(%)	26.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	74.0	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:

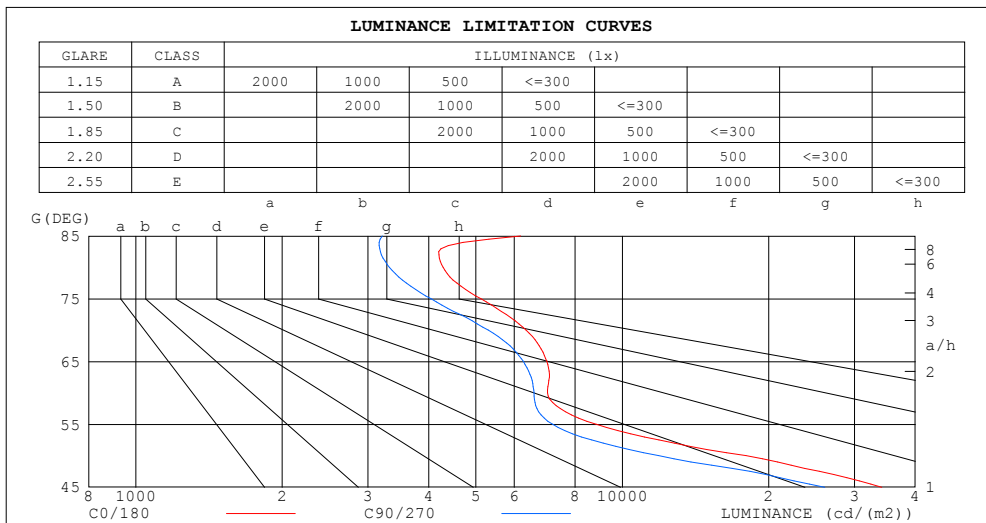
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3932	3890	3871	3841	3836	3926	3978	3991	0- 10	375.6	375.6	4.61,4.61
20	3778	3775	3800	3649	3532	3676	3763	3814	10- 20	1083	1459	17.9,17.9
30	3350	3435	3318	3218	2783	3028	3123	3325	20- 30	1615	3074	37.7,37.7
40	2046	2583	1803	2148	1056	1720	1301	2268	30- 40	1623	4697	57.7,57.7
50	576.8	1010	381.8	594.8	231.7	422.3	256.6	675.1	40- 50	864.4	5562	68.3,68.3
60	175.5	248.6	164.7	183.6	142.1	143.0	150.5	183.3	50- 60	266.4	5828	71.6,71.6
70	108.5	104.6	90.69	83.62	59.20	63.83	70.44	85.35	60- 70	124.3	5952	73.1,73.1
80	37.17	37.10	28.85	28.50	16.89	19.21	21.60	28.19	70- 80	53.93	6006	73.7,73.7
90	59.21	27.59	3.675	9.653	4.042	25.85	3.881	64.12	80- 90	19.92	6026	74,74
100	197.2	140.3	34.55	191.3	190.8	231.0	52.69	170.7	90-100	89.66	6116	75.1,75.1
110	299.2	247.3	103.7	340.3	407.8	356.3	122.3	274.4	100-110	224.3	6340	77.8,77.8
120	425.5	351.5	179.7	452.2	556.5	461.6	195.2	381.4	110-120	320.2	6660	81.8,81.8
130	546.8	421.3	252.9	520.8	660.6	524.7	269.0	464.0	120-130	374.7	7035	86.4,86.4
140	607.5	459.5	321.9	544.7	695.9	540.6	340.6	495.7	130-140	371.7	7407	90.9,90.9
150	591.1	476.1	383.9	536.6	655.3	531.2	403.5	500.2	140-150	317.2	7724	94.8,94.8
160	540.6	482.2	434.9	515.3	579.1	512.6	452.1	494.6	150-160	233.7	7957	97.7,97.7
170	499.5	483.5	471.4	495.7	512.7	494.9	480.1	487.8	160-170	140.5	8098	99.4,99.4
180	481.3	481.3	481.3	481.3	481.3	481.3	481.3	481.3	170-180	46.64	8145	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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6185	3213
80	4281	3323
75	5121	4043
70	6345	5303
65	6997	6263
60	7022	6589
55	8837	7188
50	17947	11878
45	34154	26058

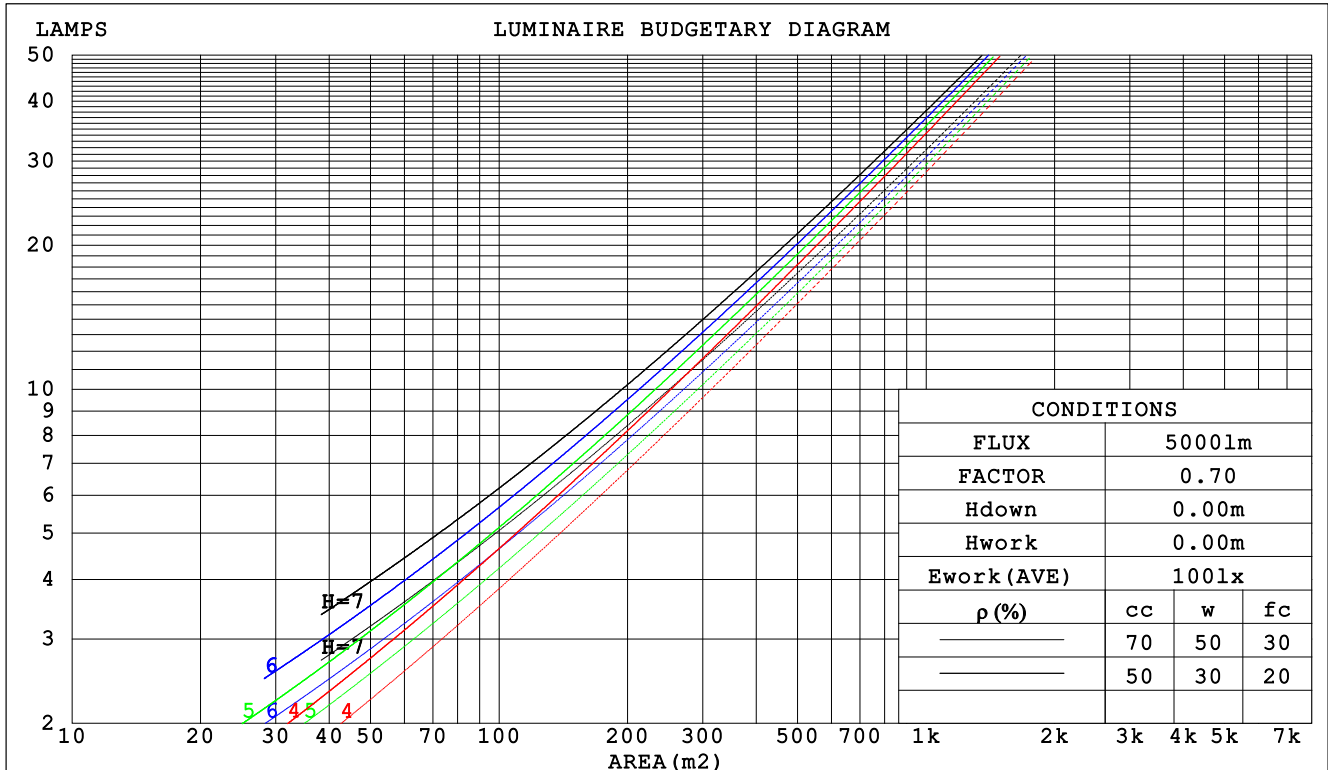
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	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	1.07	1.07	1.07	.97	.97	.97	.87	.87	.87	.78	.78	.78	.74
1.0	1.02	.99	.96	.97	.95	.92	.89	.87	.85	.80	.79	.78	.73	.72	.71	.67
2.0	.92	.87	.83	.88	.84	.80	.81	.78	.75	.74	.71	.69	.68	.66	.64	.61
3.0	.84	.78	.73	.80	.75	.71	.74	.70	.66	.68	.65	.62	.63	.60	.58	.55
4.0	.76	.70	.65	.73	.67	.63	.68	.63	.59	.63	.59	.56	.58	.55	.52	.50
5.0	.70	.63	.58	.67	.61	.56	.62	.57	.53	.58	.54	.50	.54	.50	.48	.45
6.0	.64	.57	.52	.62	.55	.51	.58	.52	.48	.54	.49	.46	.50	.46	.44	.41
7.0	.59	.52	.47	.57	.50	.46	.53	.48	.44	.50	.45	.42	.46	.43	.40	.38
8.0	.54	.47	.43	.53	.46	.42	.49	.44	.40	.46	.42	.38	.43	.39	.37	.35
9.0	.50	.44	.39	.49	.42	.38	.46	.40	.37	.43	.38	.35	.40	.37	.34	.32
10.0	.47	.40	.36	.45	.39	.35	.43	.37	.34	.40	.36	.33	.38	.34	.31	.30



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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm					
NAME: 4FT			TYPE:4000K 2.8		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.:1.12*0.07		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	.223	.127	.040	.208	.119	.038	.181	.104	.033	.155	.090	.029	.132	.077	.025		
2.0	.212	.116	.036	.199	.110	.034	.174	.097	.030	.152	.085	.027	.131	.074	.023		
3.0	.200	.107	.032	.189	.101	.030	.166	.090	.027	.146	.080	.025	.127	.070	.022		
4.0	.189	.098	.029	.178	.093	.028	.158	.084	.025	.140	.075	.023	.122	.066	.020		
5.0	.179	.091	.026	.169	.087	.025	.150	.078	.023	.133	.070	.021	.117	.063	.019		
6.0	.169	.085	.024	.160	.081	.023	.143	.073	.021	.127	.066	.019	.112	.059	.018		
7.0	.160	.079	.022	.152	.076	.022	.136	.069	.020	.122	.062	.018	.108	.056	.016		
8.0	.152	.074	.021	.144	.071	.020	.130	.065	.018	.116	.059	.017	.103	.053	.015		
9.0	.144	.070	.019	.137	.067	.019	.124	.061	.017	.111	.056	.016	.099	.050	.015		
10.0	.137	.066	.018	.130	.063	.018	.118	.058	.016	.106	.053	.015	.095	.048	.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	.389	.389	.389	.332	.332	.332	.227	.227	.227	.130	.130	.130	.042	.042	.042	
1.0	.374	.357	.341	.320	.306	.294	.219	.211	.203	.126	.122	.118	.040	.039	.038	
2.0	.363	.333	.309	.311	.287	.267	.213	.199	.186	.123	.116	.109	.039	.037	.036	
3.0	.353	.316	.286	.303	.273	.248	.208	.189	.174	.120	.111	.103	.039	.036	.034	
4.0	.345	.303	.270	.296	.262	.235	.204	.182	.165	.118	.107	.098	.038	.035	.032	
5.0	.338	.292	.259	.290	.253	.225	.200	.177	.159	.116	.104	.094	.037	.034	.031	
6.0	.332	.284	.250	.285	.246	.218	.197	.172	.154	.114	.101	.092	.037	.033	.030	
7.0	.326	.277	.243	.280	.240	.212	.194	.169	.150	.112	.099	.089	.036	.033	.030	
8.0	.320	.272	.238	.276	.236	.208	.191	.165	.147	.111	.098	.088	.036	.032	.029	
9.0	.315	.267	.234	.272	.232	.205	.188	.163	.145	.110	.096	.087	.036	.032	.029	
10.0	.311	.263	.231	.268	.228	.202	.186	.161	.143	.108	.095	.086	.035	.031	.028	

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm											
NAME: 4FT					TYPE:4000K 2.8			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:1.12*0.07			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	21.4	22.4	22.0	22.9	23.6	20.7	21.6	21.2	22.2	22.8
	3H	21.3	22.2	21.9	22.8	23.5	20.6	21.4	21.2	22.0	22.7
	4H	21.3	22.1	21.9	22.7	23.4	20.5	21.3	21.1	21.9	22.6
	6H	21.2	21.9	21.8	22.6	23.3	20.4	21.1	21.1	21.8	22.5
	8H	21.1	21.8	21.8	22.5	23.2	20.3	21.0	21.0	21.7	22.5
	12H	21.1	21.8	21.8	22.4	23.2	20.3	21.0	21.0	21.6	22.4
4H	2H	21.2	22.0	21.8	22.6	23.3	20.4	21.2	21.1	21.8	22.6
	3H	21.1	21.8	21.8	22.4	23.2	20.4	21.1	21.1	21.7	22.5
	4H	21.1	21.7	21.8	22.4	23.2	20.3	20.9	21.0	21.6	22.4
	6H	21.0	21.5	21.8	22.3	23.1	20.3	20.8	21.0	21.5	22.4
	8H	21.0	21.5	21.7	22.2	23.1	20.2	20.7	21.0	21.4	22.3
	12H	21.0	21.4	21.7	22.1	23.0	20.2	20.6	20.9	21.4	22.2
8H	4H	20.9	21.4	21.7	22.1	23.0	20.2	20.7	20.9	21.4	22.3
	6H	20.9	21.3	21.7	22.0	23.0	20.1	20.5	20.9	21.3	22.2
	8H	20.9	21.2	21.7	22.0	22.9	20.1	20.5	20.9	21.2	22.2
	12H	20.9	21.2	21.7	22.0	22.9	20.1	20.4	20.9	21.2	22.1
12H	4H	20.8	21.3	21.6	22.0	22.9	20.1	20.6	20.9	21.3	22.2
	6H	20.8	21.2	21.6	21.9	22.9	20.1	20.4	20.9	21.2	22.2
	8H	20.8	21.1	21.6	21.9	22.9	20.1	20.4	20.9	21.2	22.1
Variations with the observer position at spacings:											
S = 1.0H	+ 2.3 / - 4.7					+ 2.3 / - 4.8					
1.5H	+ 2.3 / - 4.5					+ 2.4 / - 5.1					
2.0H	+ 4.5 / - 4.2					+ 3.9 / - 3.5					

CIE Pub.117 Corrected 8145 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.3)

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	Shielding Angle:

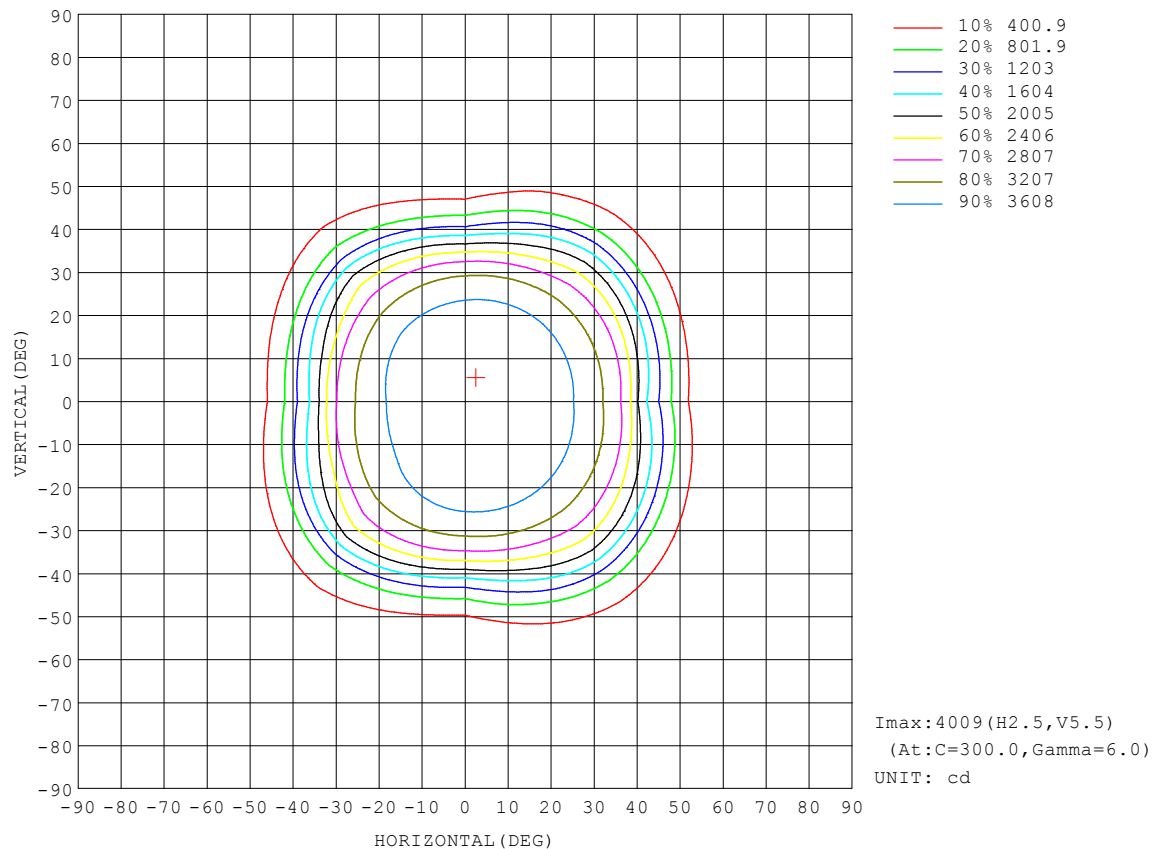
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	56	51	64	56	51	61	54	50	44
0.80	74	65	60	72	64	59	68	62	58	51
1.00	80	72	67	78	70	65	74	68	63	56
1.25	86	78	73	83	76	71	78	73	69	60
1.50	90	82	77	87	80	76	81	76	72	62
2.00	95	88	83	91	85	81	85	80	77	65
2.50	98	92	87	94	89	84	87	83	80	66
3.00	100	95	90	96	91	88	88	85	82	68
4.00	103	99	95	99	95	92	90	88	85	69
5.00	105	101	98	100	97	94	92	89	87	70
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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	Shielding Angle:

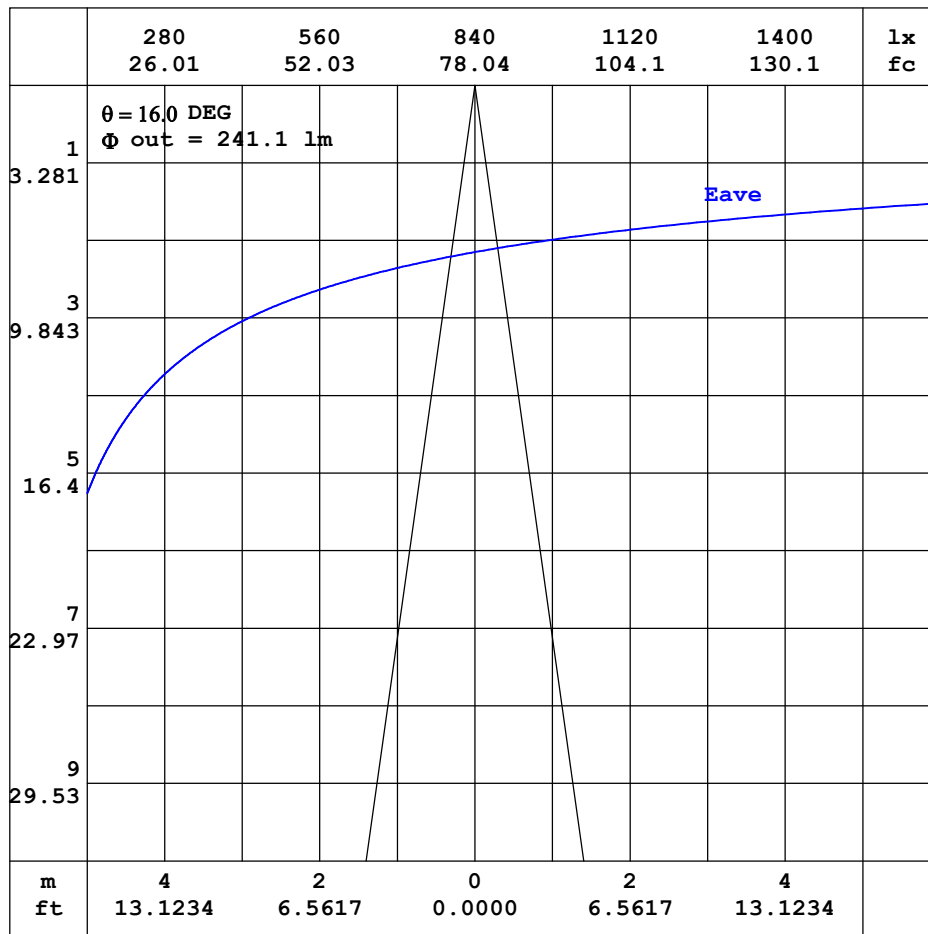


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	Shielding Angle:



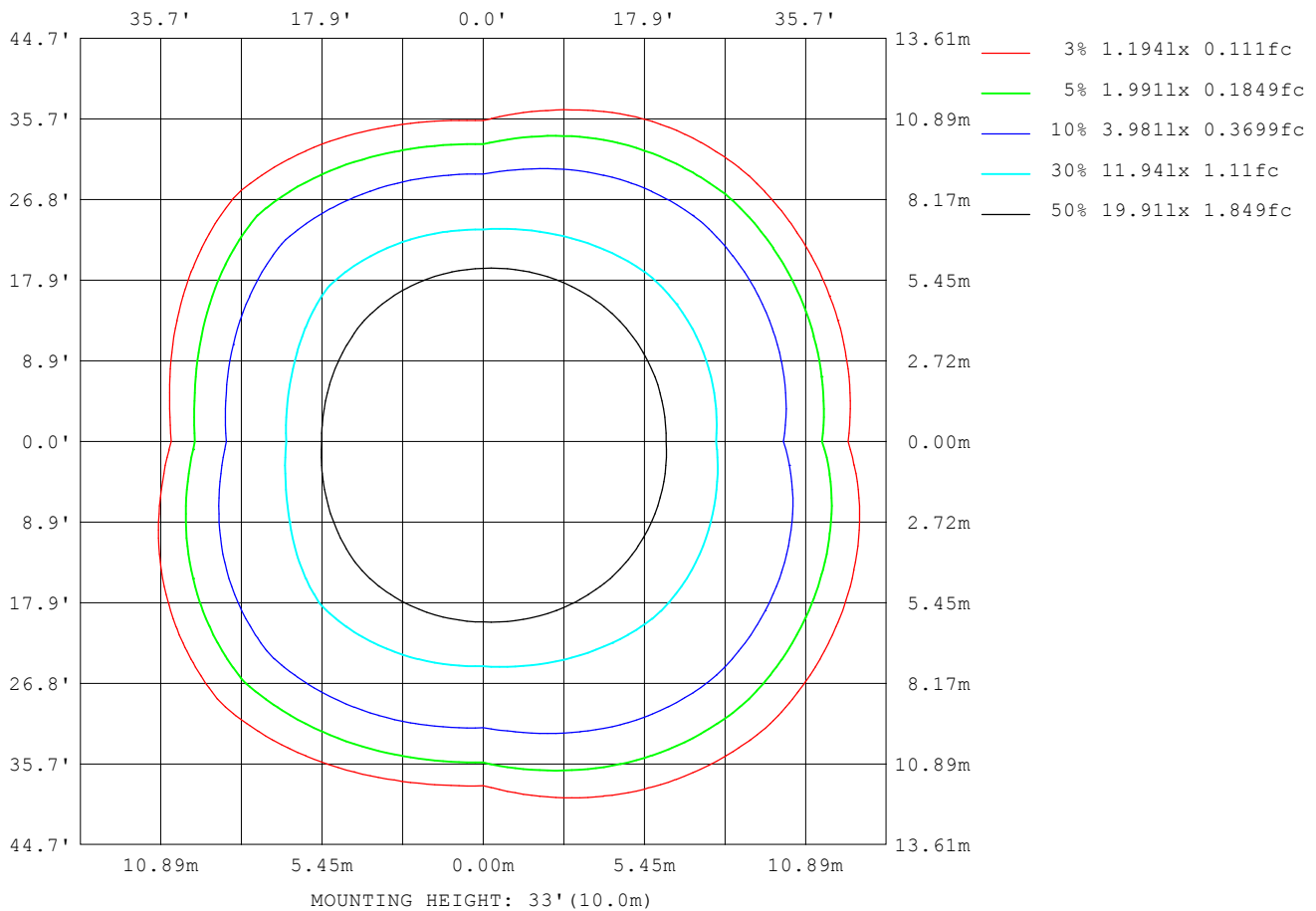
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	Shielding Angle:

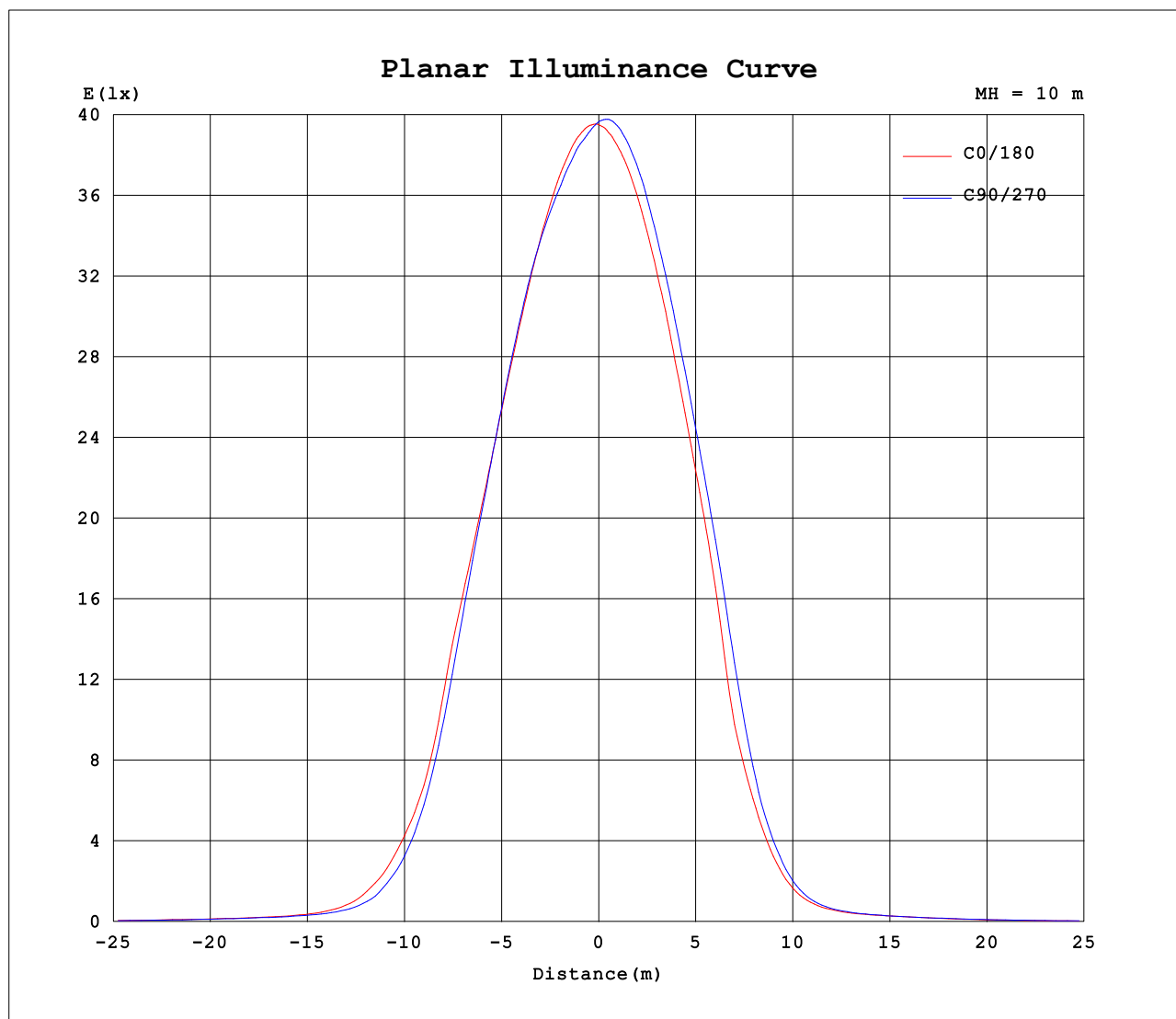
AvgL	cd/m2
L_0~180 (65) av	5881
L_0~180 (75) av	3845
L_0~180 (85) av	3782
L_90~270 (65) av	5781
L_90~270 (75) av	3579
L_90~270 (85) av	2571
L_45 (65) av	5962
L_45 (75) av	3910
L_45 (85) av	3571

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm																	
NAME: 4FT									TYPE:4000K 2.8						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:1.12*0.07						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	3950	3951	3952	3953	3954	3955	3955	3956	3957	3958	3959	3960	3961	3962	3963	3963	3964	3965	3966
5	3957	3953	3949	3945	3941	3938	3934	3931	3928	3925	3923	3921	3918	3917	3915	3913	3912	3910	3909
10	3932	3926	3920	3915	3910	3906	3901	3897	3893	3890	3887	3885	3883	3881	3879	3877	3875	3873	3871
15	3879	3871	3864	3858	3853	3848	3844	3841	3838	3837	3838	3841	3844	3846	3849	3851	3852	3853	3852
20	3778	3776	3775	3774	3773	3773	3773	3773	3774	3775	3780	3785	3790	3795	3798	3801	3802	3802	3800
25	3617	3626	3633	3640	3646	3651	3655	3658	3661	3662	3664	3665	3664	3663	3660	3656	3651	3645	3638
30	3350	3369	3386	3401	3413	3422	3429	3434	3436	3435	3428	3419	3408	3395	3381	3366	3351	3334	3318
35	2947	2987	3021	3049	3072	3088	3099	3103	3102	3095	3067	3034	2997	2958	2918	2877	2837	2798	2763
40	2046	2171	2280	2372	2448	2507	2551	2578	2589	2583	2517	2438	2349	2254	2156	2059	1965	1879	1803
45	1208	1365	1501	1618	1714	1789	1844	1879	1894	1888	1808	1712	1603	1487	1366	1245	1127	1018	921
50	577	677	765	839	900	948	983	1005	1014	1010	958	895	825	749	670	592	516	445	382
55	253	302	345	381	412	437	455	467	474	474	453	427	397	364	331	297	264	233	206
60	176	191	205	217	227	235	242	246	248	249	242	234	225	215	205	194	184	174	165
65	148	149	150	151	152	152	152	152	152	151	149	148	146	143	141	139	137	134	132
70	109	109	108	108	108	108	107	106	105	105	103	102	100	98.6	97.0	95.4	93.8	92.2	90.7
75	66.3	66.9	67.3	67.6	67.7	67.6	67.4	67.0	66.5	65.8	64.5	63.1	61.6	60.0	58.4	56.8	55.2	53.7	52.3
80	37.2	37.6	37.9	38.1	38.1	38.1	38.0	37.8	37.5	37.1	36.3	35.4	34.5	33.5	32.5	31.5	30.6	29.7	28.9
85	27.0	26.2	25.4	24.6	23.8	23.1	22.3	21.6	20.9	20.1	19.3	18.5	17.7	16.9	16.2	15.5	14.9	14.4	14.0
90	59.2	55.3	51.5	47.8	44.2	40.7	37.3	33.9	30.7	27.6	24.1	20.8	17.7	14.7	11.9	9.42	7.19	5.26	3.67
95	133	129	125	121	116	111	106	99.7	93.4	86.8	76.7	66.5	56.3	46.5	37.1	28.5	21.0	14.6	9.69
100	197	193	189	184	178	172	165	157	149	140	125	110	95.1	80.8	67.7	56.0	46.3	39.0	34.6
105	247	244	241	236	231	225	218	210	201	192	174	156	138	121	106	92.1	80.8	72.5	67.8
110	299	298	296	292	287	282	275	267	258	247	227	207	186	167	149	133	119	110	104
115	359	358	355	352	347	340	333	324	314	303	280	257	235	213	192	174	159	148	142
120	426	422	418	412	405	397	387	376	365	352	327	303	278	255	233	214	199	187	180
125	486	479	471	463	453	443	431	419	405	391	366	341	316	292	270	251	235	223	217
130	547	535	523	510	496	482	468	453	437	421	396	371	346	323	302	284	269	259	253
135	589	573	557	542	526	510	494	477	461	444	420	396	373	351	332	316	302	293	288
140	608	591	574	557	540	524	508	492	475	460	437	416	395	376	359	345	334	326	322
145	607	591	575	559	543	528	513	498	484	470	451	432	415	399	385	373	364	357	354
150	591	577	564	550	537	524	512	500	488	476	461	446	432	419	408	398	391	386	384
155	566	556	546	536	526	516	507	498	489	480	468	457	447	437	429	422	416	413	411
160	541	534	527	520	513	507	500	494	488	482	474	467	459	453	447	442	438	436	435
165	518	514	509	505	501	498	494	490	487	483	478	474	470	466	462	460	457	456	456
170	500	498	496	494	492	490	488	487	485	484	481	479	477	476	474	473	472	472	471
175	489	488	488	487	487	486	486	485	485	484	484	483	483	483	483	482	482	482	482
180	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm																		
NAME: 4FT									TYPE:4000K 2.8					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: EVERFINE									SUR.:1.12*0.07					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	3966	3967	3968	3968	3968	3968	3968	3968	3968	3966	3964	3962	3960	3958	3956	3954	3952	3950	3950
5	3908	3907	3906	3905	3904	3904	3903	3903	3903	3902	3901	3901	3901	3901	3902	3903	3905	3907	3913
10	3868	3864	3861	3857	3853	3850	3847	3844	3841	3838	3835	3833	3832	3831	3831	3832	3833	3836	3844
15	3844	3835	3824	3814	3802	3791	3779	3768	3757	3748	3740	3734	3728	3723	3720	3718	3718	3719	3728
20	3788	3774	3759	3742	3725	3706	3687	3668	3649	3631	3612	3595	3580	3566	3554	3544	3537	3532	3541
25	3628	3616	3603	3589	3574	3557	3538	3518	3497	3464	3431	3397	3365	3334	3305	3279	3258	3240	3247
30	3313	3307	3300	3292	3283	3271	3257	3239	3218	3168	3114	3060	3006	2953	2903	2857	2817	2783	2792
35	2772	2782	2794	2804	2810	2812	2807	2794	2770	2660	2541	2418	2293	2171	2055	1949	1857	1781	1823
40	1833	1873	1920	1970	2020	2066	2105	2134	2148	2039	1917	1786	1650	1514	1382	1259	1149	1056	1095
45	939	969	1008	1054	1102	1150	1194	1231	1257	1183	1098	1006	910	812	716	625	543	471	491
50	390	406	429	457	487	518	547	574	595	562	524	482	437	392	347	304	265	232	242
55	211	219	230	243	257	272	286	299	310	299	286	270	254	237	220	203	188	174	176
60	165	166	168	170	173	176	179	182	184	180	176	171	167	161	156	151	147	142	141
65	132	131	130	130	129	128	128	127	126	123	120	117	114	111	108	106	103	101	99.9
70	90.0	89.4	88.8	88.1	87.5	86.7	85.8	84.8	83.6	80.9	78.1	75.1	72.2	69.2	66.4	63.8	61.3	59.2	58.8
75	52.0	51.7	51.5	51.4	51.2	51.0	50.7	50.4	49.9	48.1	46.2	44.2	42.2	40.2	38.3	36.4	34.7	33.2	32.9
80	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.7	28.5	27.3	26.0	24.6	23.2	21.8	20.5	19.1	17.9	16.9	16.7
85	14.2	14.4	14.6	14.9	15.2	15.4	15.6	15.7	15.7	14.7	13.7	12.5	11.4	10.2	9.02	7.92	6.90	6.01	5.99
90	3.62	3.88	4.39	5.11	5.96	6.90	7.87	8.80	9.65	8.89	8.03	7.14	6.27	5.47	4.79	4.29	4.03	4.04	6.41
95	13.3	18.3	24.4	31.4	38.9	46.6	54.3	61.7	68.4	67.3	65.6	63.5	61.1	58.9	56.9	55.5	54.8	55.2	65.7
100	46.7	61.5	78.3	96.7	116	136	155	174	191	195	198	199	199	198	196	194	192	191	198
105	83.3	102	124	148	173	199	225	250	274	287	297	306	313	319	323	326	328	328	330
110	121	143	167	195	223	253	283	312	340	355	368	379	388	396	401	405	407	408	409
115	161	184	212	241	273	306	339	372	403	420	436	449	460	469	476	481	484	484	484
120	199	223	251	282	315	350	385	419	452	473	491	507	521	533	542	549	554	556	555
125	236	260	288	319	353	387	423	458	492	515	536	554	571	585	597	606	612	616	613
130	271	295	322	352	384	418	452	487	521	545	568	589	608	624	637	648	656	661	656
135	305	327	352	380	410	441	474	507	539	564	587	609	629	647	662	674	682	688	682
140	337	355	377	402	429	457	486	516	545	569	593	614	635	653	668	681	690	696	689
145	367	383	401	422	445	469	494	519	544	566	588	608	627	643	658	670	679	684	677
150	394	406	421	438	456	476	496	516	537	555	573	590	606	620	632	643	650	655	649
155	418	428	439	452	466	480	496	511	527	541	555	568	580	591	600	608	614	618	613
160	440	447	455	463	473	483	494	505	515	525	535	544	552	560	567	572	576	579	576
165	459	463	468	473	479	485	492	498	504	510	516	521	526	531	535	538	540	542	540
170	473	475	478	480	483	486	489	493	496	498	501	504	506	508	510	511	512	513	512
175	483	484	485	485	486	487	488	489	490	491	492	492	493	493	494	494	494	494	494
180	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm		
NAME: 4FT	TYPE:4000K 2.8	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.07	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	3951	3951	3952	3953	3954	3955	3957	3958	3959	3960	3961	3962	3963	3963	3964	3965	3966	3966	3967
5	3919	3925	3932	3939	3946	3953	3960	3967	3972	3976	3981	3985	3989	3992	3995	3998	4000	4002	4004
10	3853	3862	3872	3883	3894	3905	3916	3926	3934	3941	3948	3954	3960	3965	3970	3975	3978	3982	3986
15	3738	3750	3763	3776	3790	3804	3819	3833	3843	3852	3862	3870	3878	3885	3892	3899	3905	3911	3916
20	3553	3567	3583	3600	3619	3638	3657	3676	3688	3699	3710	3720	3730	3739	3748	3756	3763	3771	3779
25	3259	3275	3294	3315	3338	3363	3388	3414	3428	3442	3455	3468	3480	3492	3503	3514	3525	3538	3550
30	2808	2830	2858	2889	2922	2958	2993	3028	3041	3053	3064	3074	3083	3092	3102	3112	3123	3145	3169
35	1883	1956	2040	2131	2225	2319	2409	2492	2488	2476	2458	2436	2411	2386	2364	2346	2335	2384	2440
40	1151	1222	1303	1389	1478	1566	1648	1720	1682	1633	1579	1520	1463	1408	1361	1324	1301	1387	1486
45	523	564	612	665	719	773	823	867	835	796	755	712	671	635	604	584	574	654	745
50	258	279	302	327	353	379	402	422	404	383	360	337	314	293	276	263	257	294	338
55	180	186	192	199	207	214	222	228	222	216	209	202	196	190	185	182	181	194	210
60	140	139	139	140	140	141	142	143	143	143	144	144	145	146	147	149	151	154	158
65	99.3	99.0	99.0	99.2	99.6	100	101	102	103	104	105	106	107	108	109	111	112	113	114
70	58.7	58.9	59.3	59.9	60.7	61.7	62.7	63.8	64.4	64.9	65.5	66.1	66.9	67.6	68.5	69.4	70.4	71.7	73.0
75	32.8	32.8	33.1	33.4	33.9	34.5	35.2	35.9	36.2	36.6	36.9	37.4	37.8	38.4	39.0	39.6	40.3	41.2	42.2
80	16.7	16.8	17.0	17.3	17.7	18.2	18.7	19.2	19.4	19.6	19.8	20.0	20.3	20.5	20.8	21.2	21.6	22.2	22.8
85	6.10	6.33	6.65	7.03	7.46	7.92	8.37	8.81	8.69	8.55	8.40	8.27	8.16	8.11	8.12	8.21	8.41	9.13	9.95
90	9.03	11.8	14.6	17.3	19.9	22.3	24.3	25.9	23.3	20.3	17.2	14.0	11.0	8.29	6.09	4.57	3.88	9.21	15.4
95	76.9	88.6	100	111	122	131	138	143	132	119	105	89.8	74.5	59.4	45.4	32.9	22.5	28.2	36.3
100	205	212	219	225	229	232	233	231	213	192	170	148	126	105	84.8	67.3	52.7	58.3	67.0
105	331	331	329	325	320	313	304	293	269	244	218	192	167	143	121	102	86.8	93.1	103
110	409	407	403	398	391	381	370	356	329	300	270	241	212	185	161	140	122	130	141
115	482	479	473	465	454	442	428	411	381	350	317	285	255	226	199	177	158	166	179
120	552	546	537	527	514	498	481	462	429	395	361	327	295	264	237	214	195	204	218
125	608	600	589	576	561	543	523	501	468	433	398	364	331	301	274	250	232	242	256
130	649	638	625	609	591	571	549	525	492	458	425	392	361	332	307	286	269	279	293
135	672	660	645	627	607	585	561	537	506	475	445	415	387	362	339	321	306	315	328
140	679	665	649	631	610	588	565	541	513	486	459	433	409	388	368	353	341	348	358
145	667	654	639	621	602	582	560	538	515	492	470	449	429	411	396	383	373	379	387
150	640	629	616	601	585	567	550	531	513	495	478	461	446	432	420	411	403	407	414
155	606	598	588	576	564	550	537	523	509	496	484	472	461	451	442	435	430	432	437
160	571	565	557	549	541	532	522	513	504	495	487	479	472	466	460	456	452	454	456
165	537	533	529	524	519	514	509	503	498	493	488	484	480	476	473	471	469	469	470
170	510	509	507	505	502	500	497	495	493	491	489	487	485	483	482	481	480	480	480
175	494	493	493	492	492	491	490	490	489	489	488	488	487	487	487	486	486	486	486
180	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481

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:0.5080A P:61.10W PF:0.9900 Freq:60.00Hz Lamp Flux:8144.6x1 lm																	
NAME: 4FT									TYPE:4000K 2.8						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:1.12*0.07						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	3968	3968	3968	3968	3968	3968	3968	3967	3965	3964	3962	3960	3958	3956	3953				
5	4006	4007	4008	4008	4008	4007	4005	4002	3999	3995	3990	3985	3979	3973	3965				
10	3989	3991	3992	3993	3993	3992	3991	3988	3984	3979	3973	3967	3959	3951	3942				
15	3921	3925	3928	3931	3932	3933	3933	3931	3928	3924	3919	3913	3906	3898	3889				
20	3787	3793	3799	3804	3808	3812	3814	3814	3813	3812	3809	3805	3799	3793	3786				
25	3562	3574	3585	3595	3604	3612	3620	3624	3628	3630	3631	3630	3629	3626	3622				
30	3193	3217	3240	3263	3285	3306	3325	3337	3346	3353	3358	3361	3361	3359	3356				
35	2501	2566	2633	2701	2768	2831	2890	2921	2946	2965	2977	2983	2983	2977	2965				
40	1596	1712	1832	1950	2065	2172	2268	2302	2321	2326	2316	2291	2252	2198	2130				
45	844	949	1055	1160	1260	1354	1437	1465	1480	1482	1470	1444	1405	1353	1287				
50	386	436	487	539	588	634	675	690	698	700	695	684	667	643	613				
55	226	243	261	277	293	308	320	323	323	321	316	309	299	286	271				
60	162	166	170	174	177	180	183	184	185	185	185	184	183	181	178				
65	116	117	119	120	122	123	125	127	130	132	134	137	139	142	145				
70	74.5	76.0	77.7	79.5	81.3	83.3	85.3	87.5	89.8	92.2	94.6	97.2	99.9	103	106				
75	43.2	44.3	45.5	46.7	48.0	49.4	50.8	52.3	53.9	55.4	57.1	58.8	60.6	62.4	64.3				
80	23.4	24.1	24.9	25.6	26.5	27.3	28.2	29.1	30.0	30.9	31.9	32.9	33.9	35.0	36.1				
85	10.9	11.9	12.9	14.1	15.2	16.4	17.6	18.6	19.7	20.7	21.7	22.8	23.8	24.9	25.9				
90	22.1	29.3	36.6	44.0	51.2	57.9	64.1	66.8	68.7	69.7	70.0	69.4	68.1	65.9	63.0				
95	46.2	57.6	70.0	83.1	96.3	109	121	127	132	135	137	139	139	138	136				
100	78.3	91.6	106	122	139	155	171	178	184	190	194	197	199	199	199				
105	116	131	148	166	185	204	221	230	237	242	246	249	251	251	249				
110	155	173	192	213	234	254	274	283	291	297	301	304	305	305	303				
115	195	214	235	258	281	304	326	337	345	352	358	361	363	363	362				
120	236	257	281	306	331	357	381	393	403	412	419	423	427	428	428				
125	275	297	321	347	374	401	427	440	451	461	470	476	481	484	486				
130	312	334	358	384	411	438	464	479	492	504	515	524	532	538	543				
135	344	364	386	409	434	460	485	500	514	527	540	552	562	572	581				
140	372	389	408	429	451	473	496	510	524	538	551	563	575	586	597				
145	399	412	428	445	463	481	500	513	525	538	550	562	574	585	596				
150	422	432	444	457	471	486	500	511	521	531	541	551	561	571	581				
155	443	450	458	467	477	488	498	506	513	521	529	536	544	551	559				
160	460	464	469	475	481	488	495	500	505	510	515	520	525	530	535				
165	472	475	477	480	484	487	491	494	496	499	502	505	508	511	514				
170	481	482	483	484	485	486	488	489	490	491	493	494	495	497	498				
175	486	486	486	486	486	486	486	486	487	487	487	487	488	488	488				
180	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481				

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: