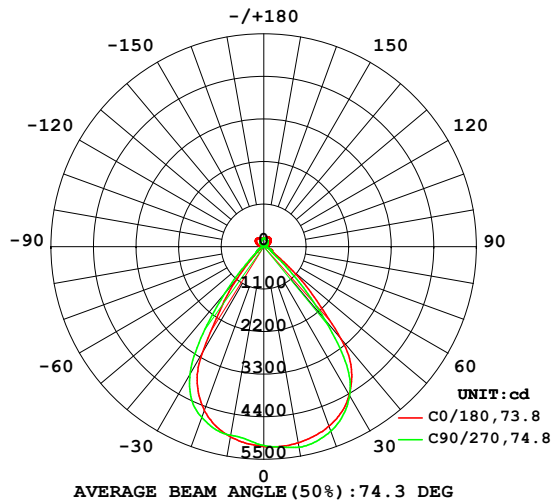


LUMINAIRE PHOTOMETRIC TEST REPORT

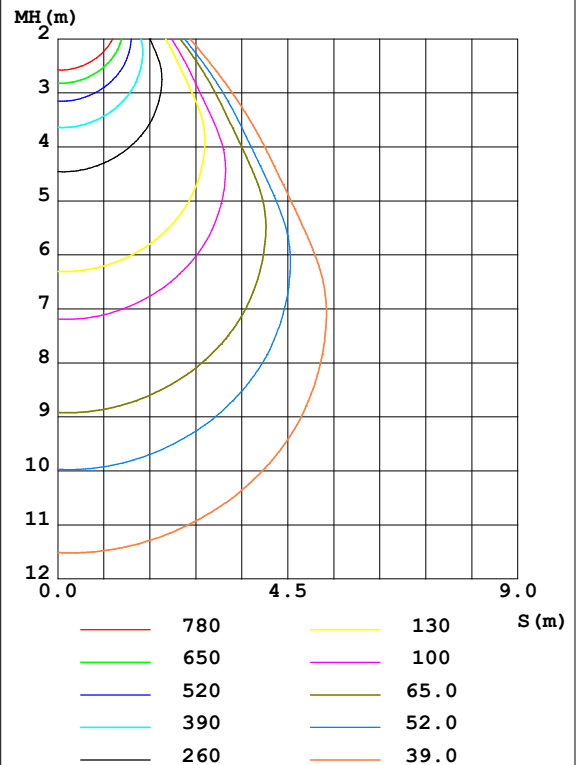
Test:U:120.8V I:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.48 lm/W			
MODEL		I _{max} (cd)	5276	S/MH(C0/180)	1.21
NOMINAL POWER(W)	60W	LOR(%)	100.0	S/MH(C90/270)	1.04
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	8686.4	η UP,DN(C0-180)	5.2,48.5
NOMINAL FLUX(lm)	8686.43	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.3,41.0
LAMPS INSIDE	1	η up(%)	10.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	89.5	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:

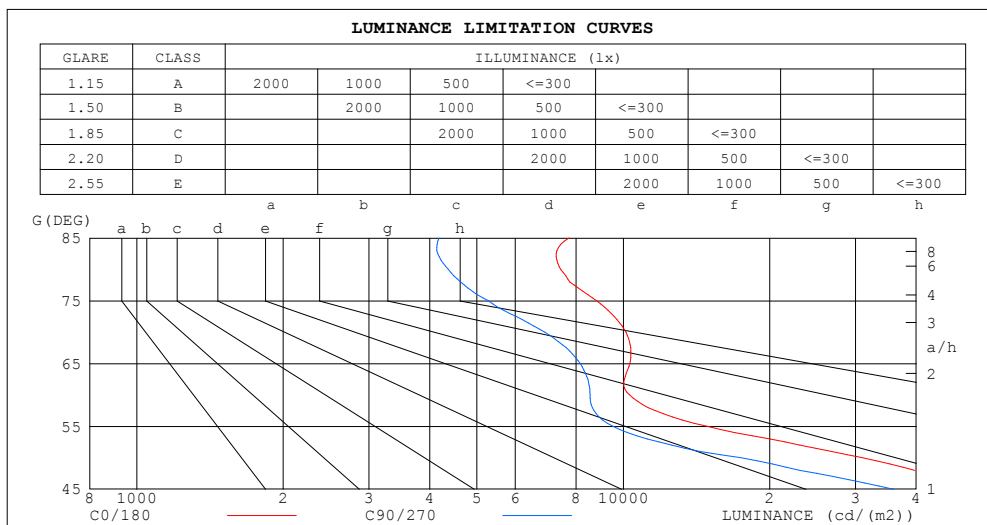
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5150	5249	5263	5144	4992	4863	4953	4960	0- 10	487.0	487.0	5.61,5.61
20	4937	5133	5073	4902	4501	4505	4698	4778	10- 20	1406	1893	21.8,21.8
30	4420	4647	4440	4132	3204	3598	3822	4198	20- 30	2072	3965	45.6,45.6
40	3112	3603	2441	2587	1051	1717	1545	2920	30- 40	2048	6014	69.2,69.2
50	1003	1677	563.6	689.7	252.9	429.2	321.8	965.6	40- 50	1130	7143	82.2,82.2
60	259.7	402.6	215.3	205.0	161.3	163.1	193.5	262.2	50- 60	373.4	7517	86.5,86.5
70	174.6	155.8	118.9	88.08	56.81	64.80	87.53	125.2	60- 70	163.3	7680	88.4,88.4
80	65.11	60.14	38.22	25.02	12.16	15.08	24.42	42.47	70- 80	70.92	7751	89.2,89.2
90	18.78	13.98	3.584	7.526	10.15	24.38	0.2781	14.29	80- 90	19.97	7771	89.5,89.5
100	64.01	54.99	14.83	96.43	120.2	106.7	20.28	62.01	90-100	41.77	7813	89.9,89.9
110	112.9	101.8	44.08	148.9	192.5	156.5	50.65	106.7	100-110	96.11	7909	91,91
120	167.8	156.7	75.21	190.8	248.3	190.1	81.48	154.7	110-120	135.7	8044	92.6,92.6
130	223.1	203.4	108.3	213.6	280.0	205.2	113.8	198.2	120-130	158.4	8203	94.4,94.4
140	260.3	233.0	140.7	217.7	281.3	207.6	145.6	233.5	130-140	159.0	8362	96.3,96.3
150	274.8	242.8	171.7	214.5	256.1	206.8	174.7	242.7	140-150	138.0	8500	97.9,97.9
160	264.7	238.3	195.0	211.6	229.9	207.6	198.0	237.7	150-160	103.2	8603	99,99
170	239.4	228.0	210.4	211.4	216.1	210.6	212.5	226.7	160-170	62.68	8666	99.8,99.8
180	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	170-180	20.83	8686	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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	7729	4180
80	7440	4367
75	8813	5280
70	10127	6897
65	10319	8159
60	10307	8543
55	14854	9525
50	30954	17397
45	52145	35966

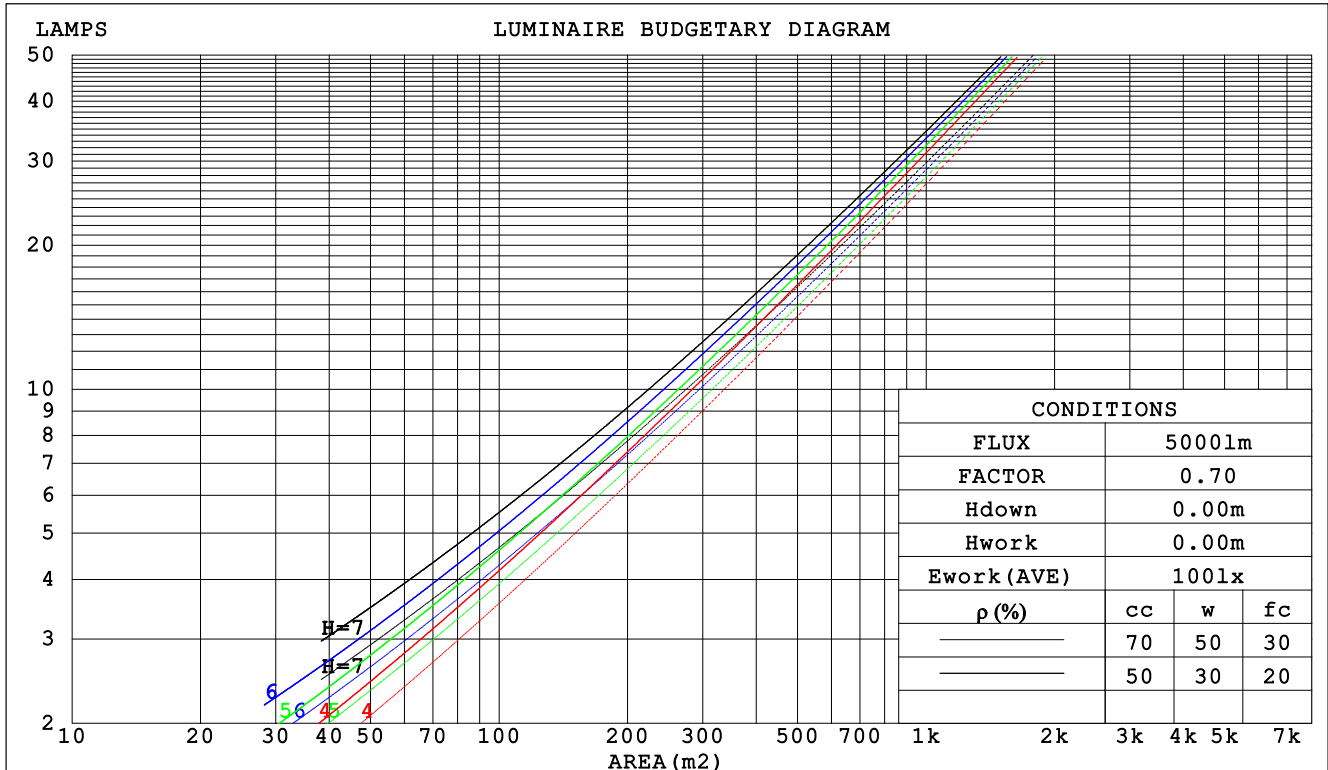
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.05	1.05	1.05	.99	.99	.99	.92	.92	.92	.89
1.0	1.06	1.03	1.01	1.03	1.00	.98	.97	.95	.93	.91	.90	.88	.86	.85	.84	.81
2.0	.97	.92	.88	.94	.90	.86	.89	.85	.82	.84	.82	.79	.80	.78	.76	.74
3.0	.88	.82	.77	.86	.80	.76	.82	.77	.74	.78	.74	.71	.74	.71	.69	.66
4.0	.81	.74	.69	.79	.73	.68	.75	.70	.66	.72	.68	.64	.69	.65	.62	.60
5.0	.74	.67	.62	.72	.66	.61	.69	.64	.60	.66	.62	.58	.64	.60	.57	.55
6.0	.68	.61	.56	.67	.60	.55	.64	.58	.54	.62	.57	.53	.59	.55	.52	.50
7.0	.63	.56	.51	.62	.55	.50	.59	.54	.49	.57	.52	.48	.55	.51	.47	.46
8.0	.58	.51	.47	.57	.51	.46	.55	.49	.45	.53	.48	.44	.51	.47	.44	.42
9.0	.54	.47	.43	.53	.47	.42	.51	.46	.42	.50	.45	.41	.48	.44	.40	.39
10.0	.50	.44	.39	.50	.43	.39	.48	.42	.38	.47	.41	.38	.45	.41	.37	.36



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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	.216	.123	.039	.206	.117	.037	.187	.107	.034	.170	.098	.031	.154	.089	.029		
2.0	.207	.114	.035	.198	.109	.034	.182	.101	.031	.167	.094	.029	.153	.086	.027		
3.0	.197	.105	.031	.189	.101	.030	.175	.095	.029	.161	.088	.027	.148	.082	.025		
4.0	.187	.097	.029	.180	.094	.028	.167	.088	.026	.155	.083	.025	.143	.078	.024		
5.0	.177	.090	.026	.171	.088	.026	.159	.083	.024	.148	.078	.023	.138	.074	.022		
6.0	.168	.084	.024	.162	.082	.024	.151	.078	.023	.141	.074	.022	.132	.070	.021		
7.0	.159	.079	.022	.154	.077	.022	.144	.073	.021	.135	.069	.020	.127	.066	.019		
8.0	.151	.074	.021	.147	.072	.020	.138	.069	.020	.129	.066	.019	.122	.062	.018		
9.0	.144	.070	.019	.140	.068	.019	.132	.065	.018	.124	.062	.018	.117	.059	.017		
10.0	.137	.066	.018	.133	.064	.018	.126	.062	.017	.119	.059	.017	.112	.056	.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	.271	.271	.271	.231	.231	.231	.158	.158	.158	.091	.091	.091	.029	.029	.029	
1.0	.255	.238	.223	.218	.204	.192	.149	.140	.133	.086	.081	.077	.027	.026	.025	
2.0	.242	.214	.190	.208	.184	.164	.142	.127	.114	.082	.074	.067	.026	.024	.022	
3.0	.232	.196	.167	.199	.169	.144	.137	.117	.101	.079	.069	.060	.025	.022	.020	
4.0	.224	.182	.150	.192	.157	.130	.132	.110	.092	.076	.064	.054	.025	.021	.018	
5.0	.216	.171	.138	.186	.148	.120	.128	.103	.085	.074	.061	.050	.024	.020	.017	
6.0	.210	.162	.129	.180	.141	.112	.124	.098	.079	.072	.058	.047	.023	.019	.016	
7.0	.204	.155	.122	.175	.135	.106	.121	.094	.075	.070	.056	.045	.023	.018	.015	
8.0	.198	.150	.116	.170	.130	.101	.118	.091	.072	.069	.054	.043	.022	.018	.014	
9.0	.193	.145	.112	.166	.126	.098	.115	.088	.069	.067	.052	.041	.022	.017	.014	
10.0	.188	.141	.109	.162	.122	.095	.113	.086	.067	.066	.051	.040	.021	.017	.013	

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	2H	24.3	25.3	24.7	25.7	26.0	23.2	24.3	23.6	24.7	25.0
	3H	24.2	25.2	24.7	25.6	26.0	23.2	24.1	23.6	24.5	24.9
	4H	24.2	25.1	24.7	25.5	26.0	23.1	24.0	23.6	24.4	24.9
	6H	24.2	25.0	24.6	25.4	25.9	23.0	23.9	23.5	24.3	24.8
	8H	24.1	25.0	24.6	25.4	25.9	23.0	23.8	23.5	24.2	24.7
	12H	24.1	24.9	24.6	25.3	25.8	23.0	23.7	23.4	24.2	24.7
4H	2H	24.1	25.0	24.5	25.4	25.8	23.1	24.0	23.6	24.4	24.9
	3H	24.1	24.9	24.6	25.3	25.8	23.1	23.9	23.6	24.3	24.8
	4H	24.1	24.8	24.6	25.3	25.8	23.1	23.8	23.6	24.3	24.8
	6H	24.1	24.7	24.7	25.2	25.8	23.0	23.6	23.6	24.2	24.7
	8H	24.1	24.7	24.7	25.2	25.8	23.0	23.6	23.6	24.1	24.7
	12H	24.1	24.6	24.7	25.2	25.8	23.0	23.5	23.5	24.0	24.6
8H	4H	24.0	24.6	24.6	25.1	25.7	23.0	23.6	23.6	24.1	24.7
	6H	24.0	24.5	24.6	25.1	25.7	23.0	23.4	23.6	24.0	24.6
	8H	24.1	24.5	24.7	25.1	25.7	23.0	23.4	23.6	24.0	24.6
	12H	24.1	24.4	24.7	25.0	25.7	23.0	23.3	23.6	23.9	24.6
12H	4H	24.0	24.5	24.5	25.0	25.6	22.9	23.5	23.5	24.0	24.6
	6H	24.0	24.4	24.6	25.0	25.7	22.9	23.3	23.6	23.9	24.6
	8H	24.0	24.4	24.7	25.0	25.7	22.9	23.3	23.6	23.9	24.6
Variations with the observer position at spacings:											
S = 1.0H		+ 2.1 / - 4.1					+ 2.3 / - 4.6				
1.5H		+ 1.8 / - 3.6					+ 2.1 / - 5.1				
2.0H		+ 4.2 / - 4.4					+ 3.7 / - 4.0				

CIE Pub.117 Corrected 8686 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.5)

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

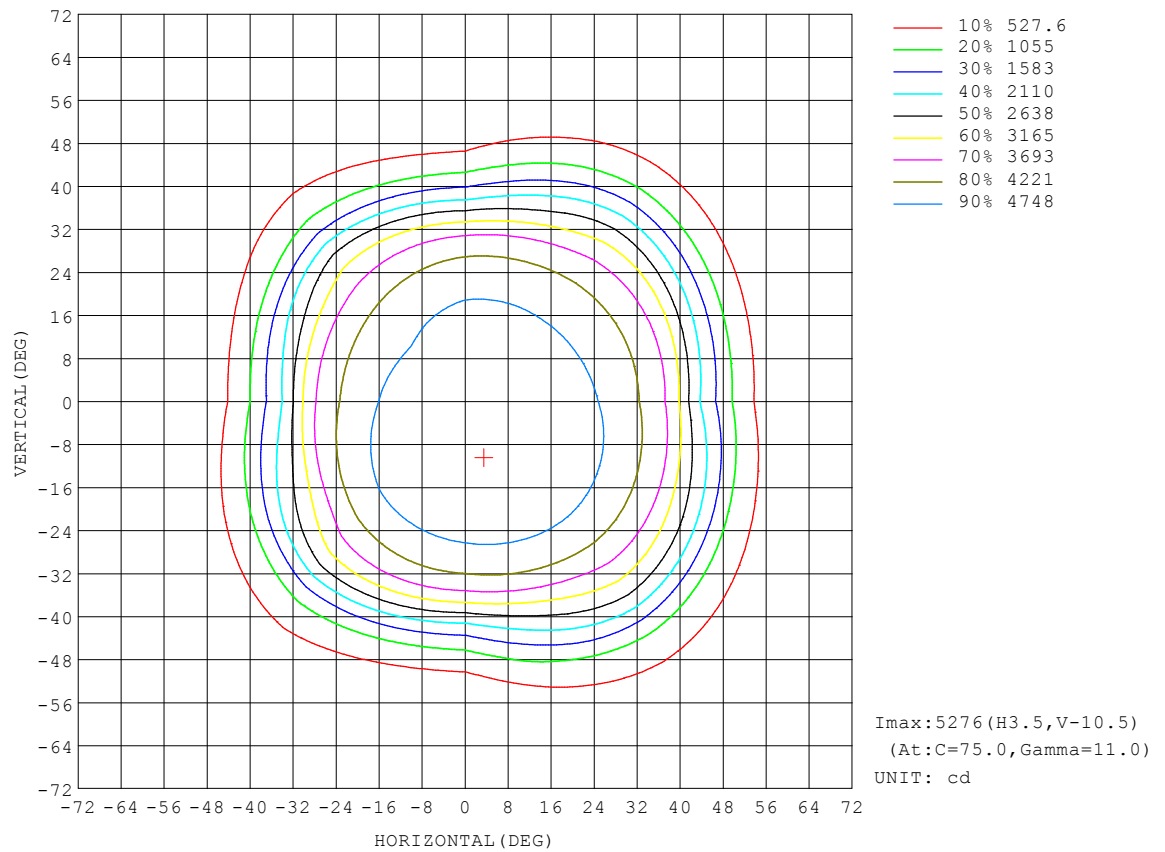
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	64	59	71	63	59	70	63	58	53
0.80	81	73	68	80	72	67	78	71	67	61
1.00	88	80	75	86	79	74	83	78	73	67
1.25	93	86	81	91	85	80	88	82	78	72
1.50	97	90	85	95	89	84	91	86	82	75
2.00	101	95	91	99	93	89	94	90	87	79
2.50	103	98	94	101	96	92	96	92	89	80
3.00	106	101	97	103	99	95	98	94	92	82
4.00	108	104	101	105	102	99	100	97	95	84
5.00	110	107	104	107	104	101	101	99	97	85
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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

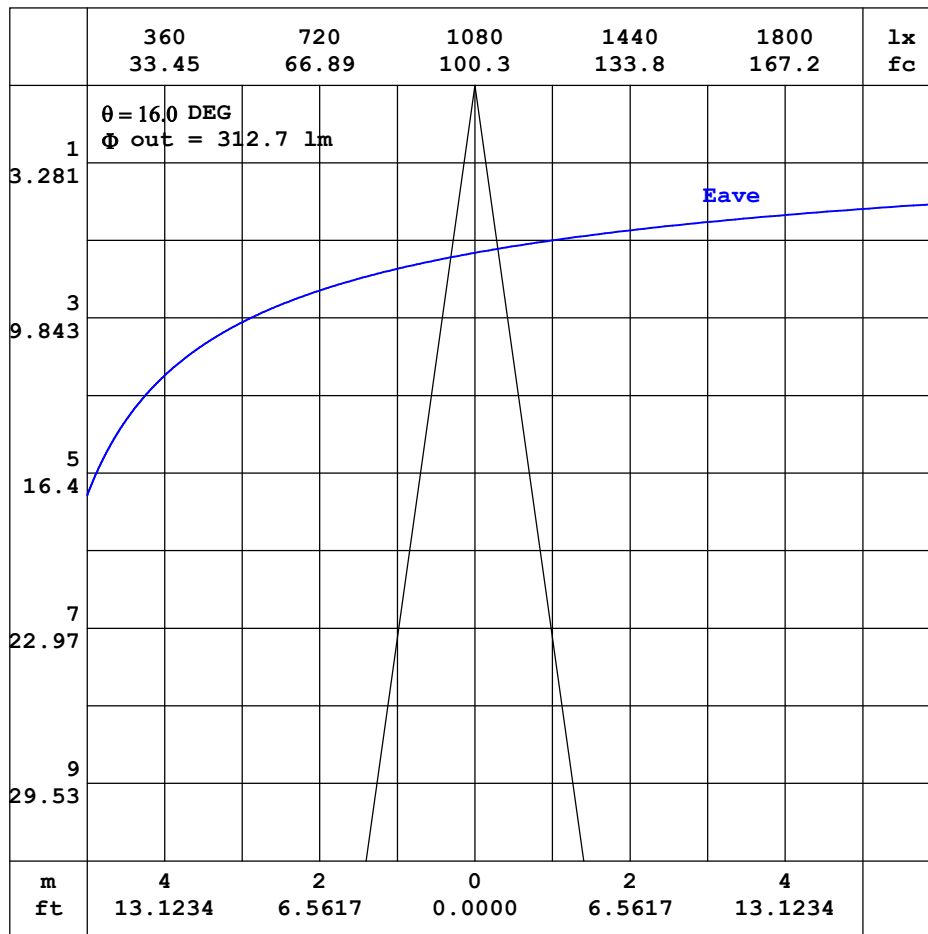


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:



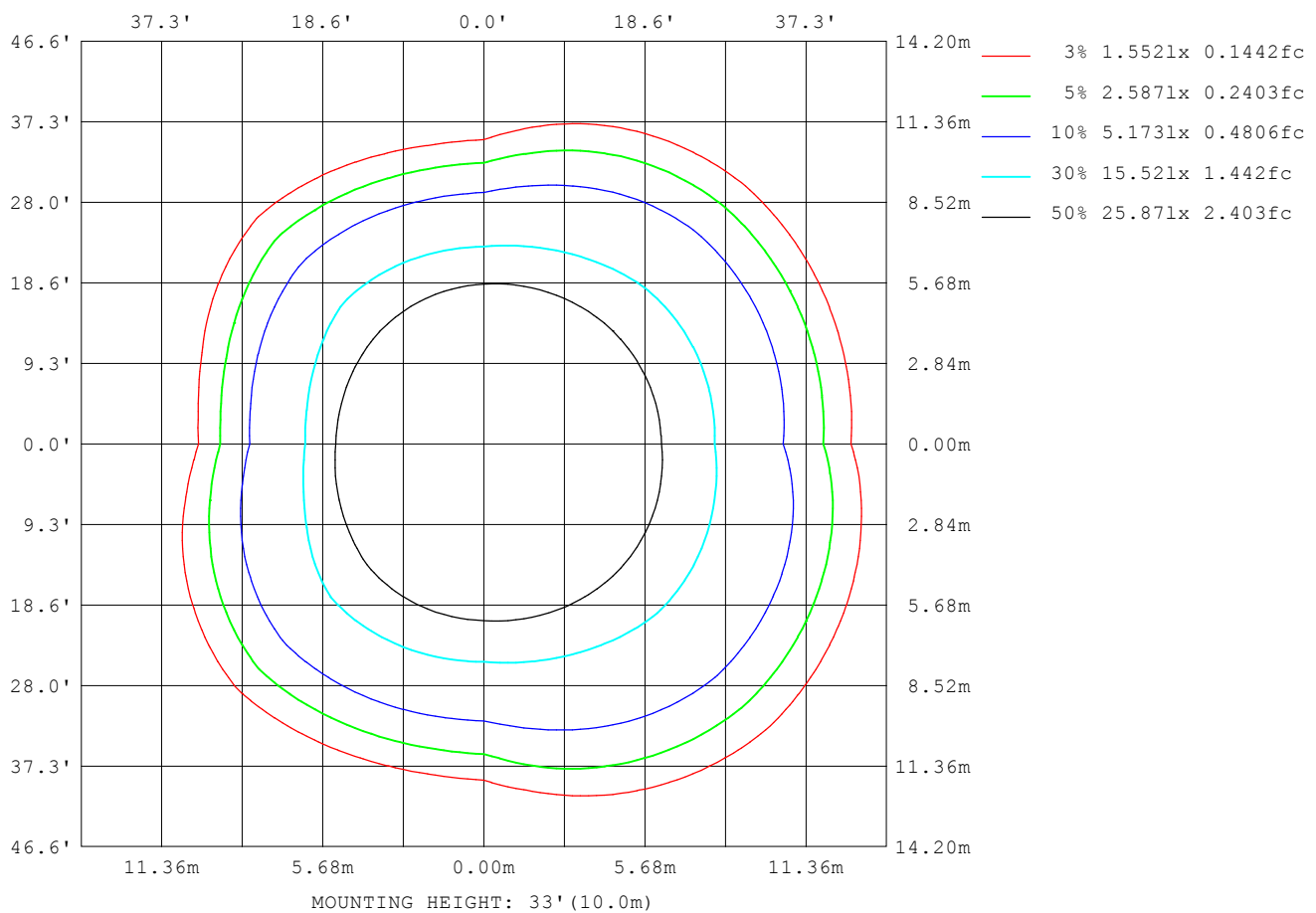
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 lm		
NAME: 4FT	TYPE:3500K 1.9	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.12*0.045	Shielding Angle:

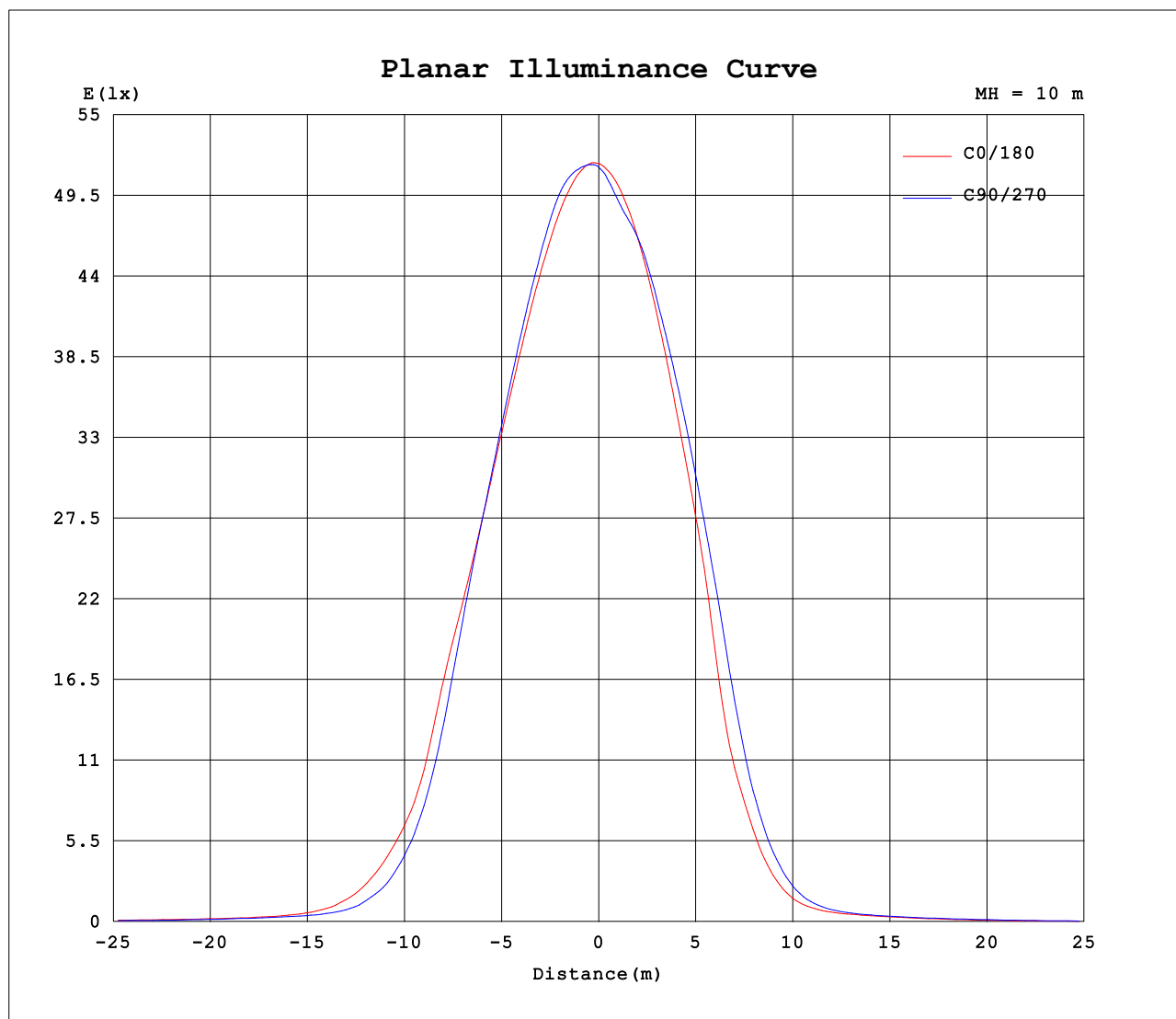
AvgL	cd/m2
L_0~180 (65) av	7584
L_0~180 (75) av	5557
L_0~180 (85) av	4186
L_90~270 (65) av	7437
L_90~270 (75) av	4492
L_90~270 (85) av	3076
L_45 (65) av	7736
L_45 (75) av	5051
L_45 (85) av	3859

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	5167	5165	5164	5162	5161	5159	5158	5157	5155	5154	5152	5151	5149	5148	5147	5146	5145	5144	5143
5	5183	5188	5192	5196	5199	5202	5205	5207	5209	5210	5211	5212	5212	5212	5211	5210	5208	5206	5203
10	5150	5165	5179	5192	5205	5216	5226	5235	5242	5249	5256	5261	5266	5269	5271	5271	5270	5267	5263
15	5067	5096	5122	5146	5167	5186	5203	5217	5229	5239	5244	5248	5249	5248	5245	5241	5234	5226	5217
20	4937	4971	5003	5031	5056	5078	5096	5112	5124	5133	5137	5137	5135	5130	5123	5113	5102	5088	5073
25	4736	4773	4806	4836	4862	4884	4902	4917	4928	4935	4936	4933	4927	4917	4905	4891	4873	4854	4833
30	4420	4467	4508	4544	4574	4599	4619	4634	4643	4647	4639	4626	4609	4588	4564	4536	4506	4474	4440
35	3961	4026	4083	4130	4168	4197	4217	4227	4228	4221	4186	4143	4094	4039	3981	3920	3858	3796	3736
40	3112	3249	3364	3460	3534	3589	3623	3637	3630	3603	3501	3383	3253	3114	2972	2829	2690	2559	2441
45	1858	2080	2272	2434	2566	2669	2741	2784	2797	2779	2658	2513	2349	2172	1987	1800	1616	1442	1282
50	1003	1166	1307	1426	1523	1598	1651	1682	1691	1677	1586	1478	1355	1223	1086	947	811	681	564
55	429	512	584	645	695	735	764	782	790	786	746	696	640	580	516	452	389	330	275
60	260	292	320	344	364	380	392	399	403	403	389	372	352	330	307	283	259	237	215
65	220	224	228	231	233	234	234	234	232	230	226	220	215	208	202	195	188	181	174
70	175	173	172	170	168	166	164	162	159	156	152	148	144	140	136	132	127	123	119
75	115	115	114	114	113	111	110	108	106	103	99.9	96.3	92.5	88.6	84.6	80.6	76.6	72.7	68.9
80	65.1	65.4	65.5	65.3	65.0	64.4	63.7	62.7	61.5	60.1	58.1	55.8	53.5	51.0	48.4	45.8	43.2	40.7	38.2
85	34.0	34.4	34.8	34.9	34.9	34.8	34.5	34.0	33.4	32.6	31.3	29.9	28.4	26.8	25.1	23.4	21.7	20.0	18.4
90	18.8	18.5	18.2	17.8	17.3	16.8	16.2	15.5	14.8	14.0	12.7	11.5	10.2	8.87	7.62	6.44	5.39	4.44	3.58
95	30.1	31.0	31.6	31.9	32.0	31.7	31.2	30.5	29.4	28.1	24.7	21.2	17.7	14.3	11.1	8.42	6.23	4.71	4.00
100	64.0	64.5	64.7	64.5	63.8	62.8	61.5	59.7	57.5	55.0	49.3	43.4	37.5	31.9	26.7	22.2	18.6	16.1	14.8
105	86.7	87.6	88.0	87.9	87.4	86.4	84.8	82.8	80.4	77.4	70.6	63.6	56.6	49.8	43.6	38.1	33.7	30.5	28.8
110	113	114	114	114	114	112	111	108	105	102	93.8	85.6	77.4	69.5	62.1	55.6	50.2	46.3	44.1
115	138	140	142	142	142	141	139	137	133	129	120	111	101	91.4	82.5	74.5	67.8	62.7	59.4
120	168	170	171	172	172	170	168	165	161	157	146	135	124	113	103	93.7	85.7	79.4	75.2
125	196	199	200	200	199	198	195	192	187	182	171	159	146	135	123	113	104	96.7	91.6
130	223	225	225	225	224	221	218	214	209	203	192	179	166	154	142	131	122	114	108
135	244	245	245	244	243	240	237	232	227	221	209	196	184	172	160	149	139	131	125
140	260	260	260	258	256	253	249	245	239	233	222	210	198	186	175	164	155	147	141
145	269	269	267	266	263	260	256	251	246	240	230	219	209	198	188	179	170	163	157
150	275	273	271	268	265	262	258	253	248	243	234	225	216	207	198	190	183	177	172
155	273	270	268	265	262	259	255	251	247	242	235	227	220	213	206	199	193	188	184
160	265	263	260	258	255	252	249	246	242	238	233	227	222	217	211	207	202	198	195
165	253	252	250	248	246	244	241	239	236	233	230	226	222	219	215	212	209	206	204
170	239	238	237	236	235	234	232	231	230	228	226	224	222	219	217	215	214	212	210
175	227	227	226	226	225	225	224	224	223	222	221	221	220	219	218	217	216	215	215
180	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	5143	5143	5143	5143	5143	5144	5145	5146	5147	5149	5152	5154	5157	5159	5161	5163	5165	5167	5166
5	5200	5195	5191	5186	5181	5175	5170	5164	5158	5153	5148	5143	5138	5132	5126	5120	5114	5107	5098
10	5255	5245	5233	5221	5207	5193	5177	5161	5144	5128	5111	5094	5077	5060	5043	5026	5009	4992	4973
15	5208	5198	5187	5174	5159	5143	5125	5106	5084	5054	5022	4990	4957	4924	4892	4860	4831	4803	4784
20	5062	5049	5035	5018	5000	4979	4956	4930	4902	4857	4811	4763	4715	4667	4621	4578	4537	4501	4486
25	4816	4797	4775	4752	4725	4696	4664	4629	4590	4528	4463	4397	4331	4267	4206	4148	4095	4049	4035
30	4420	4398	4374	4346	4314	4278	4236	4187	4132	4024	3911	3796	3681	3569	3463	3365	3278	3204	3210
35	3724	3713	3701	3685	3663	3634	3595	3544	3479	3300	3111	2916	2720	2529	2348	2182	2036	1916	1960
40	2447	2466	2492	2522	2552	2578	2595	2599	2587	2429	2255	2070	1881	1693	1510	1339	1184	1051	1072
45	1265	1265	1278	1299	1326	1354	1380	1399	1410	1312	1205	1091	973	856	742	635	538	454	467
50	549	548	557	574	596	621	647	670	690	647	600	549	495	441	388	338	293	253	259
55	270	271	277	287	300	315	330	344	357	345	330	313	295	277	259	241	224	209	208
60	209	205	203	201	201	202	203	204	205	200	195	190	185	180	175	170	165	161	160
65	169	165	161	158	154	151	147	144	140	136	131	126	122	117	113	109	106	103	102
70	115	112	108	105	101	98.1	94.7	91.4	88.1	83.9	79.8	75.7	71.9	68.2	64.8	61.8	59.1	56.8	56.2
75	66.2	63.6	61.2	59.0	56.8	54.7	52.7	50.7	48.8	46.3	43.8	41.3	39.0	36.8	34.8	33.0	31.4	30.0	29.5
80	36.5	34.8	33.3	31.8	30.3	29.0	27.6	26.3	25.0	23.3	21.6	19.9	18.3	16.8	15.5	14.2	13.1	12.2	11.9
85	17.2	16.1	15.0	14.0	13.1	12.2	11.3	10.5	9.67	8.69	7.74	6.83	5.97	5.18	4.46	3.82	3.27	2.83	2.76
90	3.60	3.77	4.08	4.50	5.01	5.58	6.21	6.87	7.53	7.65	7.77	7.91	8.09	8.32	8.63	9.02	9.52	10.2	12.1
95	8.33	13.4	19.1	25.3	31.6	38.1	44.5	50.6	56.3	57.9	59.0	59.7	60.0	60.1	60.0	59.8	59.7	59.6	62.7
100	21.2	28.8	37.4	46.7	56.6	66.8	77.0	86.9	96.4	102	106	110	113	115	117	119	120	120	121
105	35.9	44.4	54.2	64.9	76.3	88.0	99.9	112	123	130	136	142	147	151	154	157	159	160	160
110	51.8	61.2	72.0	83.9	96.5	110	123	136	149	157	164	171	177	182	186	189	191	193	192
115	67.3	77.2	88.6	101	115	129	143	158	172	181	190	197	204	210	215	219	221	223	222
120	83.0	92.8	104	117	131	146	161	176	191	201	211	219	227	234	239	244	247	248	246
125	98.8	108	119	132	146	160	175	190	205	216	226	235	244	251	257	262	265	267	264
130	115	123	133	145	157	171	185	199	214	225	235	245	254	262	269	274	278	280	276
135	130	137	145	155	167	179	191	204	217	228	239	249	258	266	273	278	282	285	281
140	144	150	157	165	174	185	195	206	218	228	237	247	255	263	269	275	279	281	277
145	160	163	168	175	182	190	199	207	216	225	233	240	248	254	260	264	268	270	267
150	173	175	179	183	189	195	201	208	214	221	227	233	238	243	248	252	254	256	253
155	184	186	188	191	195	199	203	208	213	217	221	226	229	233	236	239	241	242	240
160	195	196	197	198	201	203	206	209	212	214	217	220	222	224	226	228	229	230	228
165	203	203	204	204	205	207	208	209	211	212	214	215	217	218	219	220	221	221	220
170	210	210	209	209	210	210	210	211	211	212	213	213	214	214	215	215	216	216	216
175	214	214	214	213	213	213	213	213	213	213	214	214	214	214	215	215	215	215	215
180	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	5166	5164	5163	5161	5160	5158	5156	5154	5152	5151	5149	5148	5147	5146	5145	5144	5143	5143	5143
5	5089	5080	5070	5061	5052	5043	5035	5027	5022	5017	5013	5010	5008	5007	5006	5007	5008	5011	5014
10	4954	4937	4920	4905	4891	4880	4870	4863	4868	4875	4883	4894	4905	4917	4929	4941	4953	4953	4952
15	4767	4753	4742	4733	4727	4724	4724	4726	4739	4754	4771	4789	4808	4828	4847	4866	4883	4886	4888
20	4475	4468	4466	4467	4472	4480	4492	4505	4523	4542	4563	4586	4608	4631	4654	4677	4698	4709	4719
25	4029	4029	4034	4045	4061	4081	4104	4131	4157	4186	4216	4247	4278	4310	4341	4372	4401	4419	4436
30	3230	3262	3305	3355	3412	3472	3535	3598	3625	3651	3675	3699	3723	3746	3770	3795	3822	3862	3903
35	2030	2121	2229	2348	2473	2601	2725	2842	2845	2838	2824	2806	2787	2769	2755	2748	2751	2836	2930
40	1116	1178	1256	1343	1438	1534	1628	1717	1695	1667	1635	1602	1572	1548	1533	1531	1545	1671	1813
45	495	534	582	636	694	752	809	861	834	802	769	737	708	686	674	673	687	804	935
50	271	288	309	333	358	383	407	429	412	393	374	355	338	325	317	316	322	381	448
55	209	211	215	220	225	231	237	243	238	234	230	226	223	222	223	226	231	254	280
60	158	158	158	158	158	160	161	163	165	167	170	172	176	180	184	188	193	201	209
65	102	102	102	103	104	106	108	111	113	116	120	123	127	131	135	139	143	147	150
70	56.1	56.3	57.0	58.0	59.3	60.9	62.7	64.8	66.6	68.6	70.7	73.1	75.6	78.3	81.2	84.3	87.5	91.0	94.7
75	29.3	29.3	29.6	30.1	30.7	31.6	32.6	33.8	34.8	35.9	37.2	38.7	40.3	42.1	44.0	46.0	48.3	51.0	53.8
80	11.8	11.8	12.1	12.4	12.9	13.5	14.3	15.1	15.8	16.5	17.4	18.3	19.4	20.5	21.7	23.0	24.4	26.1	27.8
85	2.80	2.92	3.13	3.41	3.74	4.13	4.55	5.01	5.22	5.46	5.73	6.05	6.43	6.87	7.38	7.98	8.66	9.70	10.8
90	14.1	16.1	18.0	19.8	21.4	22.8	23.8	24.4	22.2	19.6	16.8	13.9	10.8	7.85	5.03	2.47	0.28	0.82	1.77
95	65.8	68.9	71.7	74.1	76.0	77.2	77.7	77.2	70.3	62.6	54.4	45.8	37.2	28.9	21.0	13.8	7.64	8.78	11.0
100	122	122	121	120	118	115	111	107	97.0	86.7	76.0	65.3	54.8	44.8	35.5	27.2	20.3	21.7	24.4
105	159	158	156	153	149	144	139	132	121	109	97.0	84.9	73.2	62.1	51.8	42.8	35.2	36.7	39.8
110	191	189	186	182	177	171	164	157	144	131	118	104	91.5	79.4	68.4	58.7	50.7	52.8	56.6
115	220	216	212	206	200	193	184	175	162	148	134	120	107	94.7	83.5	73.7	65.9	68.7	73.4
120	243	239	233	226	218	210	200	190	176	162	148	134	121	109	98.1	88.8	81.5	85.1	90.6
125	260	255	248	240	231	221	211	200	186	173	159	146	134	122	112	104	97.7	102	108
130	271	265	257	248	238	228	217	205	192	180	167	155	144	134	126	119	114	119	126
135	275	268	260	250	240	230	219	207	196	184	173	163	153	145	138	133	130	136	144
140	272	265	257	248	238	228	218	208	198	188	179	170	163	156	151	148	146	152	160
145	262	256	249	241	233	224	216	207	199	191	184	178	172	167	164	161	161	166	174
150	249	244	239	233	227	220	213	207	201	195	190	185	181	178	176	175	175	180	186
155	237	233	230	225	221	216	211	207	203	199	196	193	190	189	187	187	187	192	196
160	227	224	222	219	216	213	210	208	205	203	201	200	198	198	197	197	198	201	205
165	219	218	216	215	213	212	210	209	208	207	206	205	205	205	205	206	207	209	211
170	215	214	214	213	212	212	211	211	210	210	210	210	210	211	211	212	212	214	215
175	215	215	214	214	214	214	214	214	214	214	214	214	214	215	215	215	216	216	217
180	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209

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:0.4920A P:59.30W PF:0.9900 Freq:60.00Hz Lamp Flux:8686.43x1 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	5143	5143	5143	5144	5145	5146	5147	5148	5150	5152	5154	5156	5158	5161	5164				
5	5018	5024	5030	5037	5045	5053	5063	5073	5084	5096	5108	5121	5136	5150	5166				
10	4951	4950	4950	4950	4952	4955	4960	4972	4986	5003	5022	5043	5066	5092	5120				
15	4889	4890	4890	4891	4892	4895	4898	4910	4923	4938	4955	4973	4994	5016	5041				
20	4728	4736	4744	4752	4760	4769	4778	4792	4807	4822	4839	4857	4875	4895	4915				
25	4452	4466	4480	4494	4508	4522	4537	4556	4575	4596	4617	4640	4663	4686	4711				
30	3945	3988	4032	4074	4117	4158	4198	4230	4261	4289	4316	4340	4363	4384	4403				
35	3033	3142	3253	3366	3478	3586	3688	3751	3806	3853	3891	3922	3944	3958	3963				
40	1966	2127	2293	2458	2621	2776	2920	3000	3065	3116	3152	3173	3180	3172	3150				
45	1077	1224	1374	1522	1666	1801	1924	1981	2022	2047	2056	2048	2025	1986	1930				
50	520	596	674	751	827	899	966	1000	1026	1045	1057	1061	1058	1047	1029				
55	306	334	362	390	416	441	463	472	478	481	481	477	470	460	446				
60	218	226	234	242	249	256	262	265	268	269	270	270	268	266	264				
65	154	158	162	166	170	174	178	182	186	191	195	200	205	210	215				
70	98.6	103	107	111	116	120	125	130	135	140	146	151	157	163	169				
75	56.8	59.9	63.2	66.7	70.2	73.9	77.7	81.4	85.3	89.2	93.3	97.4	102	106	110				
80	29.7	31.6	33.6	35.7	37.9	40.2	42.5	44.8	47.1	49.5	52.0	54.5	57.1	59.7	62.4				
85	12.0	13.3	14.7	16.1	17.5	19.0	20.5	21.9	23.4	24.8	26.3	27.8	29.3	30.8	32.4				
90	3.07	4.63	6.41	8.32	10.3	12.3	14.3	15.3	16.1	16.8	17.5	18.0	18.3	18.6	18.8				
95	14.0	17.7	21.9	26.4	30.9	35.4	39.5	40.5	40.9	40.9	40.4	39.3	37.8	35.7	33.2				
100	28.2	33.0	38.4	44.2	50.3	56.3	62.0	64.2	65.9	67.1	67.8	68.0	67.8	67.0	65.7				
105	44.1	49.4	55.5	62.1	68.9	75.7	82.2	84.8	86.9	88.5	89.5	90.0	89.9	89.4	88.3				
110	61.8	68.2	75.4	83.1	91.1	99.1	107	110	112	114	116	116	116	116	115				
115	79.5	86.9	95.2	104	113	122	131	134	137	140	141	142	142	141	140				
120	97.6	106	115	125	135	145	155	159	163	166	168	169	170	170	169				
125	116	124	134	145	155	166	176	181	186	189	192	195	196	197	197				
130	134	144	154	165	176	187	198	204	209	213	217	219	221	223	223				
135	153	163	174	186	197	209	220	226	231	235	239	241	243	244	245				
140	169	179	189	201	212	223	233	239	245	249	253	256	258	260	260				
145	182	191	201	211	221	232	241	247	252	256	260	263	266	268	269				
150	193	201	209	217	226	234	243	248	253	257	261	265	268	271	273				
155	202	208	215	221	228	235	241	246	250	254	258	262	265	268	270				
160	209	213	218	223	228	233	238	241	245	248	251	254	257	260	262				
165	214	217	220	223	226	229	232	235	237	240	242	245	247	249	251				
170	217	218	220	221	223	225	227	228	230	231	233	234	235	237	238				
175	217	218	219	219	220	221	221	222	222	223	224	224	225	226	226				
180	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209				

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: