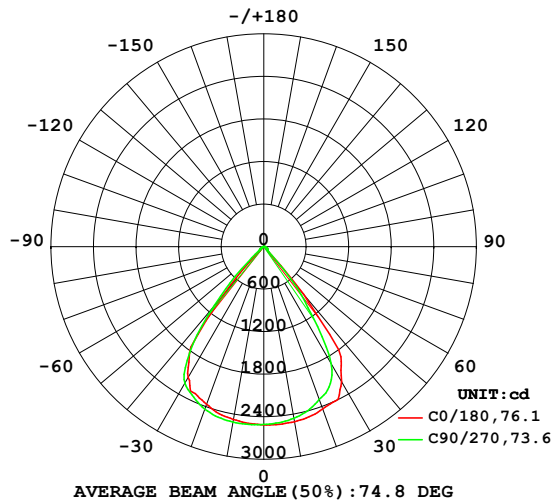


LUMINAIRE PHOTOMETRIC TEST REPORT

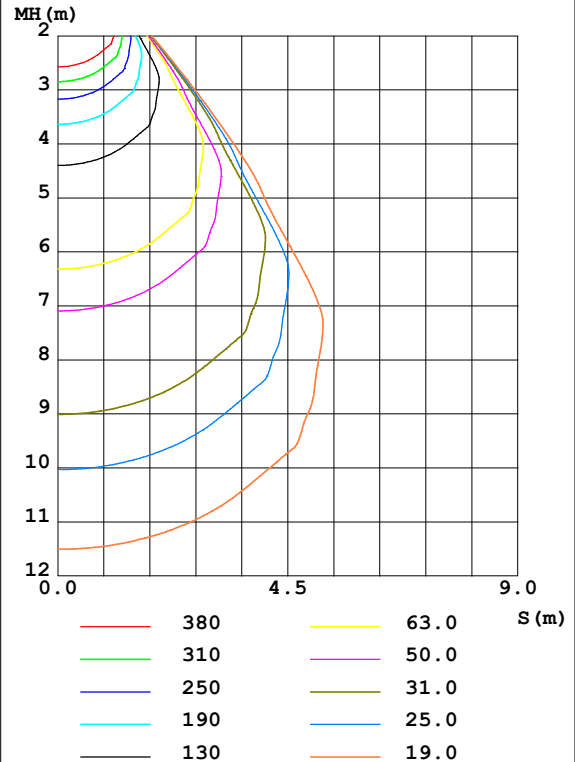
NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.43 lm/W
MODEL		Imax(cd)	2517	S/MH(C0/180)	1.10	
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.13	
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	3537.5	η UP,DN(C0-180)	0.1,46.9	
NOMINAL FLUX(lm)	3537.52	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,53.0	
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120.0	η down (%)	99.9	CIBSE SHR MAX	0.85	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

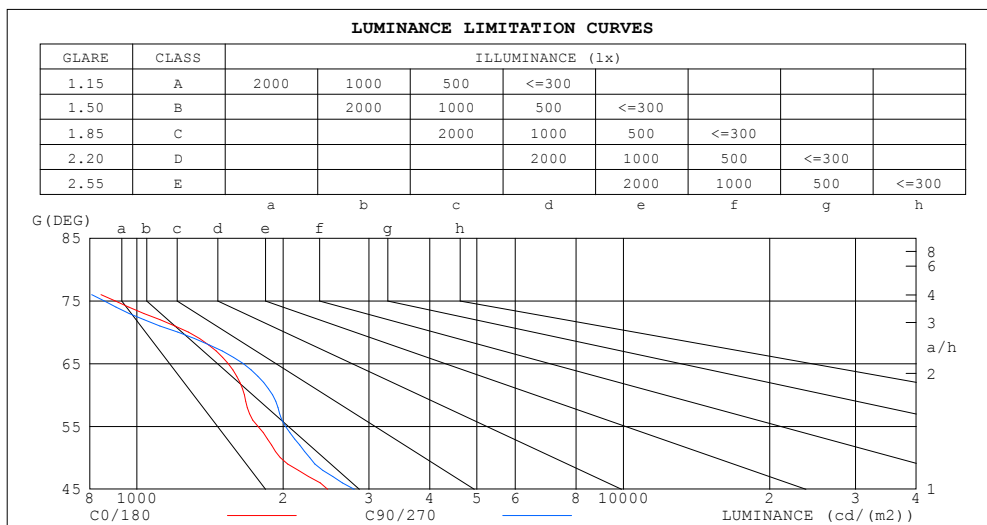
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2506	2484	2455	2449	2474	2501	2511	2505	0- 10	238.5	238.5	6.74,6.74
20	2434	2374	2293	2307	2364	2432	2440	2431	10- 20	691.4	929.9	26.3,26.3
30	2197	2094	1898	2005	2131	2220	2226	2212	20- 30	1051	1981	56,56
40	874.4	1220	587.5	1170	889.3	1584	1082	1610	30- 40	1069	3050	86.2,86.2
50	63.42	90.27	72.89	96.82	70.75	103.3	89.04	136.4	40- 50	367.6	3418	96.6,96.6
60	41.63	48.17	47.53	51.00	48.45	56.52	53.81	53.45	50- 60	59.05	3477	98.3,98.3
70	21.84	20.08	20.76	23.74	27.84	29.74	31.31	27.35	60- 70	37.62	3514	99.3,99.3
80	5.871	5.343	5.655	6.618	7.493	9.060	9.577	8.091	70- 80	15.56	3530	99.8,99.8
90	0.3353	0.9154	0	0.9977	0.3724	1.195	0.5653	1.011	80- 90	3.653	3533	99.9,99.9
100	0.1213	0.4137	0	0.4330	0.1258	0.4388	0	0.2280	90-100	0.4335	3534	99.9,99.9
110	0.0485	0.1259	0.0484	0.0921	0.0387	0.1140	0.0024	0.0461	100-110	0.1260	3534	99.9,99.9
120	0.1353	0.2982	0.2975	0.3417	0.0826	0.1475	0.1189	0.1524	110-120	0.1045	3534	99.9,99.9
130	0.6435	0.7488	0.7647	0.7875	0.4511	0.4598	0.4243	0.4767	120-130	0.3396	3534	99.9,99.9
140	1.150	1.165	1.273	1.250	0.9741	0.8472	0.8530	0.8472	130-140	0.6304	3535	99.9,99.9
150	1.559	1.647	1.685	1.703	1.335	1.281	1.318	1.317	140-150	0.7835	3536	100,100
160	2.131	2.214	2.087	2.170	2.023	1.879	1.800	1.993	150-160	0.8030	3537	100,100
170	2.555	2.468	2.330	2.458	2.570	2.330	2.214	2.397	160-170	0.6329	3537	100,100
180	2.589	2.468	2.383	2.504	2.584	2.456	2.376	2.497	170-180	0.2344	3538	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	533	467
80	676	651
75	901	856
70	1277	1214
65	1541	1653
60	1665	1901
55	1773	2020
50	1973	2268
45	2469	2801

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*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	.197	.112	.035	.190	.108	.034	.177	.102	.032	.165	.095	.031	.154	.090	.029		
2.0	.190	.104	.032	.184	.101	.031	.173	.096	.030	.163	.092	.029	.154	.087	.027		
3.0	.182	.097	.029	.177	.095	.029	.167	.091	.028	.159	.087	.027	.151	.084	.026		
4.0	.173	.090	.027	.169	.089	.026	.161	.085	.026	.153	.082	.025	.146	.080	.024		
5.0	.166	.084	.024	.162	.083	.024	.155	.080	.024	.148	.078	.023	.142	.076	.023		
6.0	.158	.079	.023	.155	.078	.022	.148	.076	.022	.142	.074	.022	.137	.072	.021		
7.0	.151	.075	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020	.132	.069	.020		
8.0	.144	.070	.020	.142	.070	.020	.136	.068	.019	.132	.067	.019	.127	.065	.019		
9.0	.138	.067	.019	.136	.066	.019	.131	.065	.018	.127	.063	.018	.123	.062	.018		
10.0	.132	.063	.018	.130	.063	.018	.126	.062	.017	.122	.061	.017	.118	.059	.017		

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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.173	.158	.144	.148	.136	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.160	.133	.111	.137	.115	.096	.094	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.148	.115	.088	.127	.099	.076	.087	.069	.053	.050	.040	.031	.016	.013	.010	
4.0	.139	.100	.070	.119	.087	.061	.082	.060	.043	.047	.035	.026	.015	.012	.008	
5.0	.131	.089	.058	.113	.077	.050	.078	.054	.035	.045	.032	.021	.014	.010	.007	
6.0	.124	.080	.048	.107	.069	.042	.074	.048	.030	.043	.028	.018	.014	.009	.006	
7.0	.118	.073	.041	.102	.063	.035	.070	.044	.025	.041	.026	.015	.013	.009	.005	
8.0	.113	.067	.035	.097	.058	.030	.067	.041	.022	.039	.024	.013	.013	.008	.004	
9.0	.108	.062	.030	.093	.053	.026	.064	.038	.019	.037	.022	.011	.012	.007	.004	
10.0	.103	.057	.027	.089	.050	.023	.062	.035	.017	.036	.021	.010	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: 4FT LEDIL					TYPE:5000K					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:1.13*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	18.0	19.1	18.3	19.3	19.4	17.1	18.2	17.4	18.4	18.6			
	3H	17.9	18.9	18.2	19.1	19.3	17.0	18.0	17.3	18.2	18.4			
	4H	17.8	18.7	18.1	19.0	19.2	16.9	17.9	17.2	18.1	18.3			
	6H	17.7	18.6	18.0	18.8	19.1	16.9	17.7	17.2	18.0	18.2			
	8H	17.7	18.5	18.0	18.8	19.0	16.8	17.6	17.1	17.9	18.2			
	12H	17.6	18.4	18.0	18.7	19.0	16.8	17.6	17.1	17.8	18.1			
	4H	2H	17.8	18.7	18.1	18.9	19.2	16.9	17.8	17.2	18.0	18.3		
	3H	17.7	18.5	18.0	18.7	19.0	16.8	17.6	17.1	17.9	18.2			
	4H	17.6	18.3	17.9	18.6	18.9	16.7	17.5	17.1	17.8	18.1			
	6H	17.5	18.1	17.9	18.5	18.8	16.7	17.3	17.0	17.6	18.0			
	8H	17.5	18.1	17.9	18.4	18.8	16.6	17.2	17.0	17.6	17.9			
	12H	17.4	18.0	17.8	18.3	18.7	16.6	17.1	17.0	17.5	17.9			
8H	4H	17.5	18.0	17.9	18.4	18.8	16.6	17.2	17.0	17.5	17.9			
	6H	17.4	17.9	17.8	18.3	18.7	16.5	17.0	17.0	17.4	17.8			
	8H	17.3	17.8	17.8	18.2	18.6	16.5	16.9	17.0	17.3	17.8			
	12H	17.3	17.7	17.8	18.1	18.6	16.5	16.8	16.9	17.3	17.7			
12H	4H	17.4	17.9	17.8	18.3	18.7	16.6	17.1	17.0	17.5	17.9			
	6H	17.3	17.8	17.8	18.2	18.6	16.5	16.9	16.9	17.3	17.8			
	8H	17.3	17.7	17.8	18.1	18.6	16.5	16.8	16.9	17.3	17.7			
Variations with the observer position at spacings:														
S = 1.0H		+ 3.3 / - 9.5					+ 2.6 / - 8.2							
1.5H		+ 6.0 / - 9.1					+ 5.0 / - 7.8							
2.0H		+ 3.8 / - 1.4					+ 3.7 / - 1.0							

CIE Pub.117 Corrected 3538 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.4)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:

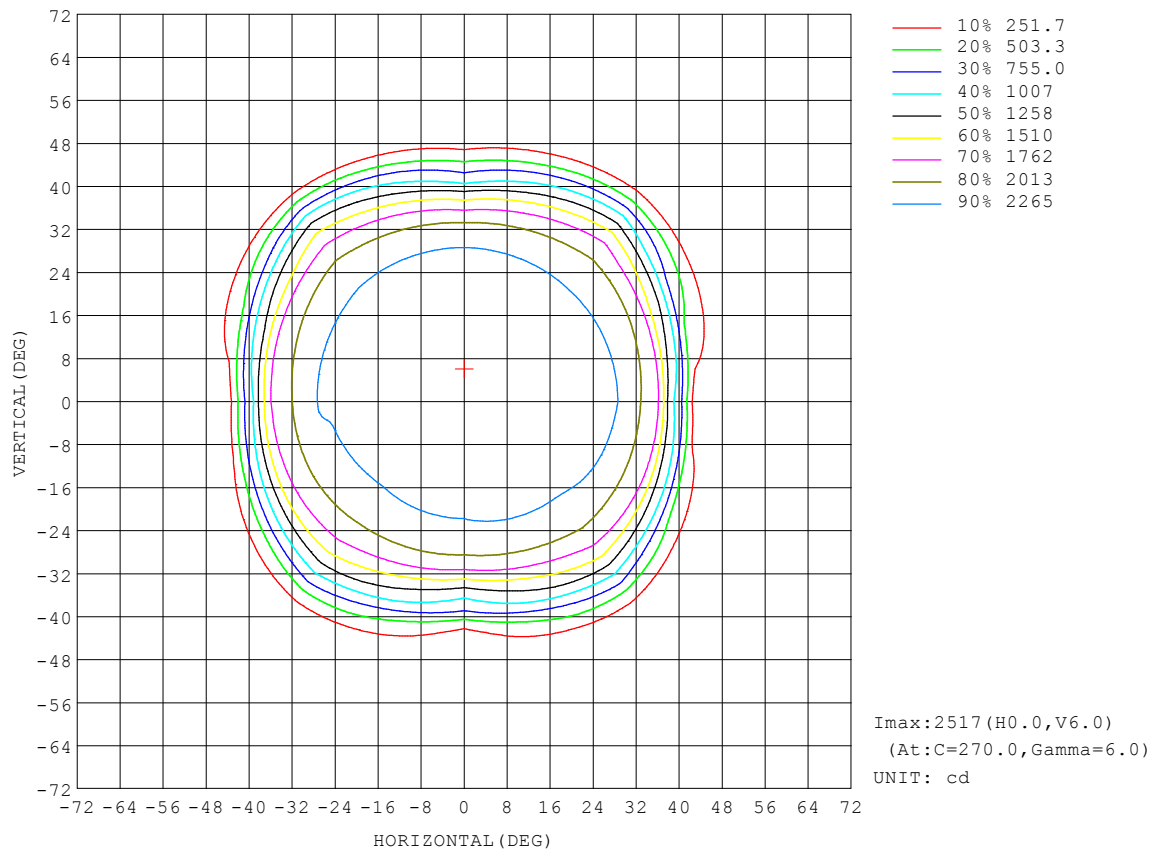
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	83	76	72	82	76	71	82	75	71	67
0.80	91	84	80	90	84	80	89	83	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	95	91	98	93	90	85
1.50	104	99	95	103	98	94	100	96	93	89
2.00	107	103	99	106	102	98	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:

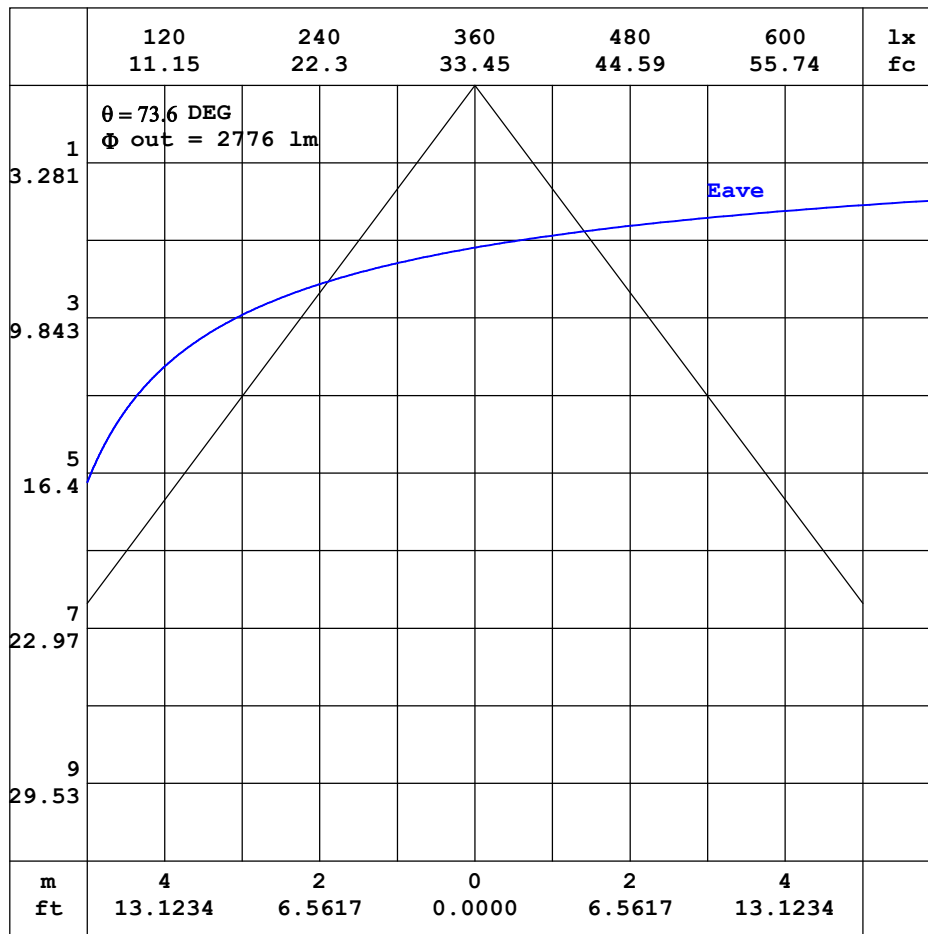


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

AAI CURVES

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:



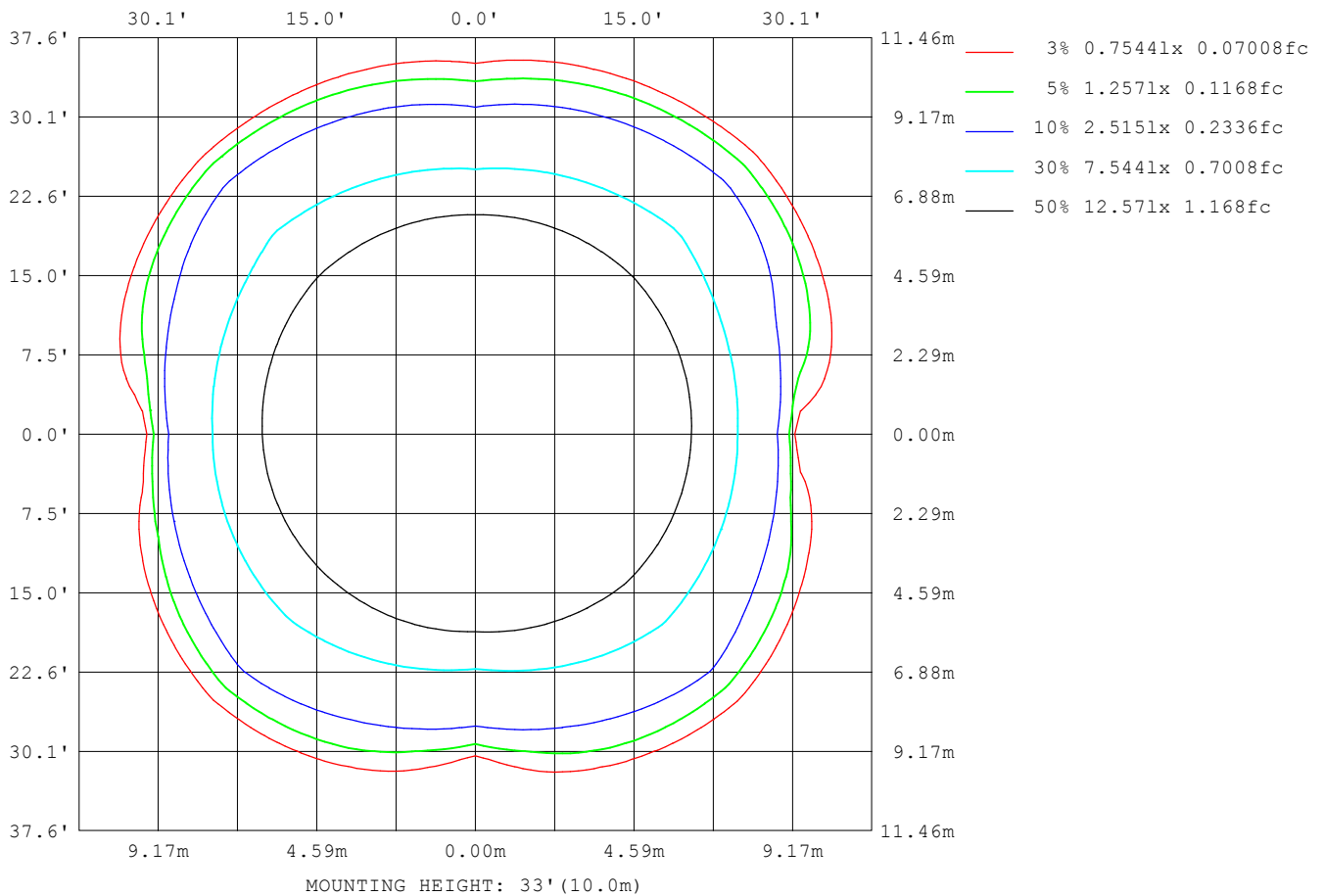
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:

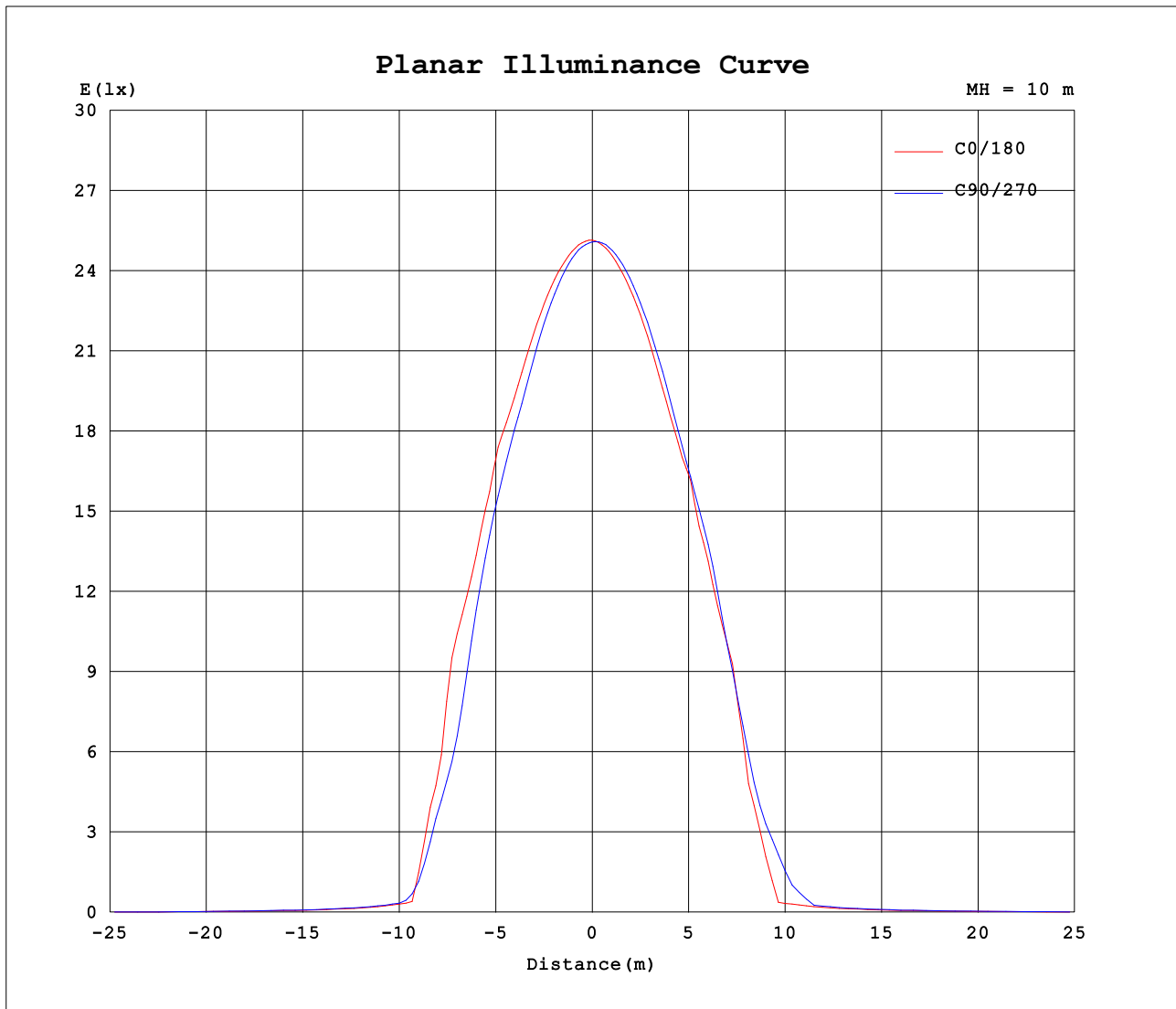
AvgL	cd/m2
L_0~180 (65) av	1711
L_0~180 (75) av	1026
L_0~180 (85) av	617
L_90~270 (65) av	1864
L_90~270 (75) av	1116
L_90~270 (85) av	770
L_45 (65) av	1835
L_45 (75) av	1086
L_45 (85) av	745

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 4FT LEDIL	TYPE:5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.13*0.045	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	2515	2509	2508	2509	2515	2509	2508	2509										
5	2514	2503	2491	2487	2500	2510	2516	2514										
10	2506	2484	2455	2449	2474	2501	2511	2505										
15	2484	2441	2398	2389	2438	2478	2490	2481										
20	2434	2374	2293	2307	2364	2432	2440	2431										
25	2401	2251	2181	2170	2287	2344	2344	2341										
30	2197	2094	1898	2005	2131	2220	2226	2212										
35	1896	1797	1200	1707	1830	2006	1822	2014										
40	874	1220	587	1170	889	1584	1082	1610										
45	87.3	502	99.0	480	94.5	839	440	881										
50	63.4	90.3	72.9	96.8	70.7	103	89.0	136										
55	50.8	64.4	57.9	68.9	57.7	77.4	67.9	76.1										
60	41.6	48.2	47.5	51.0	48.5	56.5	53.8	53.5										
65	32.6	33.7	34.9	37.5	39.7	43.3	43.9	40.6										
70	21.8	20.1	20.8	23.7	27.8	29.7	31.3	27.3										
75	11.7	10.5	11.1	12.9	14.9	17.3	17.8	15.5										
80	5.87	5.34	5.65	6.62	7.49	9.06	9.58	8.09										
85	2.32	2.21	2.04	2.76	3.05	4.25	4.67	3.76										
90	0.34	0.92	0.00	1.00	0.37	1.20	0.57	1.01										
95	0.20	0.76	0.00	0.79	0.23	0.72	0.00	0.47										
100	0.12	0.41	0.00	0.43	0.13	0.44	0.00	0.23										
105	0.08	0.20	0.01	0.20	0.06	0.22	0.00	0.09										
110	0.05	0.13	0.05	0.09	0.04	0.11	0.00	0.05										
115	0.05	0.15	0.15	0.19	0.03	0.07	0.04	0.07										
120	0.14	0.30	0.30	0.34	0.08	0.15	0.12	0.15										
125	0.38	0.51	0.51	0.55	0.23	0.28	0.25	0.30										
130	0.64	0.75	0.76	0.79	0.45	0.46	0.42	0.48										
135	0.92	0.95	1.03	1.02	0.72	0.65	0.63	0.65										
140	1.15	1.17	1.27	1.25	0.97	0.85	0.85	0.85										
145	1.34	1.38	1.46	1.48	1.15	1.06	1.08	1.07										
150	1.56	1.65	1.69	1.70	1.33	1.28	1.32	1.32										
155	1.81	1.95	1.91	1.93	1.59	1.56	1.56	1.66										
160	2.13	2.21	2.09	2.17	2.02	1.88	1.80	1.99										
165	2.39	2.38	2.23	2.34	2.38	2.15	2.02	2.24										
170	2.55	2.47	2.33	2.46	2.57	2.33	2.21	2.40										
175	2.59	2.49	2.37	2.50	2.60	2.44	2.32	2.47										
180	2.59	2.47	2.38	2.50	2.58	2.46	2.38	2.50										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353

Humidity:65.0%

Test Distance:7.540m [K=1.0000]

Remarks: