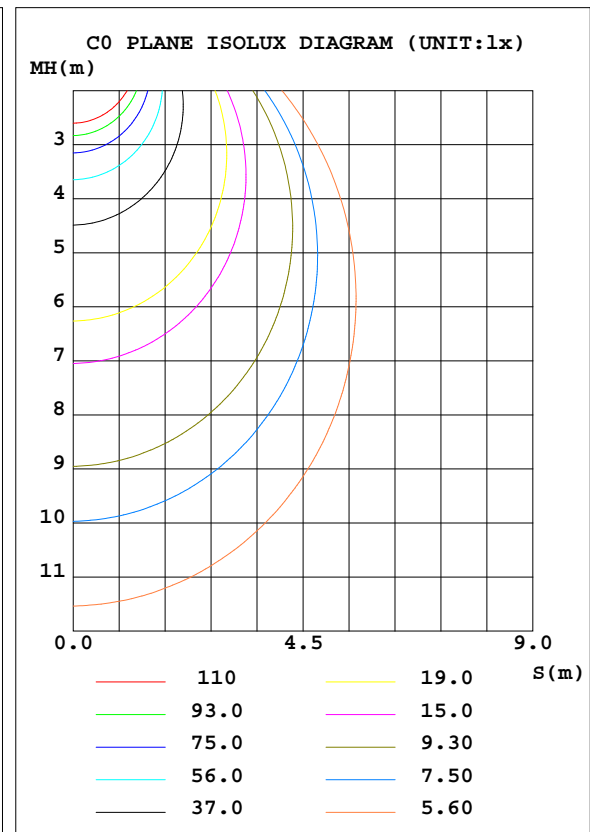
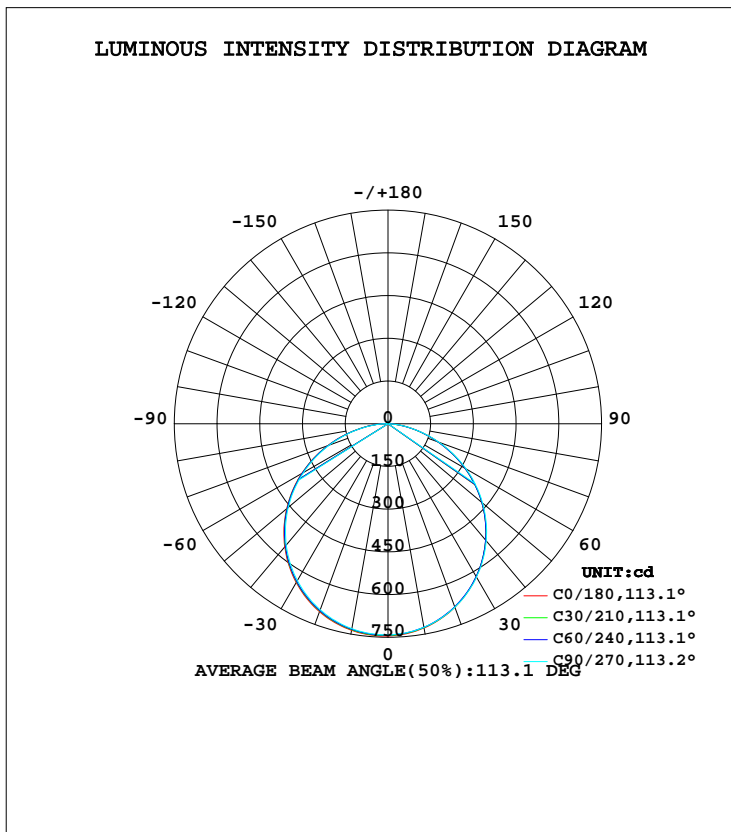


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.69 lm/W			
MODEL		I <sub>max</sub> (cd)	746.1	S/MH(C0/180)	1.24
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2170.7	η UP, DN(C0-180)	0.9, 47.7
NOMINAL FLUX(lm)	2170.73	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 50.9
LAMPS INSIDE	1	η up(%)	1.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.4	η down(%)	98.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [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	728.1	726.1	725.9	726.0	736.7	733.6	730.4	728.3	0- 10	70.21	70.21	3.23,3.23
20	686.1	684.9	685.9	686.9	702.6	699.3	694.9	691.8	10- 20	201.3	271.5	12.5,12.5
30	620.7	619.7	621.9	624.5	644.3	641.1	636.2	632.0	20- 30	305.7	577.2	26.6,26.6
40	534.2	533.4	536.7	540.4	564.3	561.1	556.1	551.1	30- 40	369.5	946.7	43.6,43.6
50	430.2	429.9	433.8	438.3	464.9	462.0	457.0	451.6	40- 50	384.3	1331	61.3,61.3
60	312.5	312.0	316.3	321.7	350.1	347.7	342.5	337.2	50- 60	347.9	1679	77.3,77.3
70	187.9	187.0	190.9	197.0	225.1	223.5	219.0	214.0	60- 70	265.3	1944	89.6,89.6
80	71.24	70.29	73.49	78.33	101.8	101.1	97.78	94.02	70- 80	152.2	2096	96.6,96.6
90	4.283	4.264	4.227	4.219	7.386	7.717	6.007	4.442	80- 90	42.53	2139	98.5,98.5
100	4.864	4.844	4.811	4.769	2.687	2.701	2.715	2.742	90-100	3.968	2143	98.7,98.7
110	5.476	5.447	5.426	5.364	3.245	3.247	3.288	3.302	100-110	4.286	2147	98.9,98.9
120	6.001	5.978	5.960	5.908	3.832	3.848	3.877	3.906	110-120	4.592	2152	99.1,99.1
130	6.435	6.420	6.402	6.367	4.504	4.521	4.541	4.577	120-130	4.654	2156	99.3,99.3
140	6.809	6.808	6.797	6.767	5.199	5.231	5.236	5.284	130-140	4.443	2161	99.5,99.5
150	7.169	7.161	7.172	7.139	5.919	5.964	5.957	6.017	140-150	3.946	2165	99.7,99.7
160	7.528	7.500	7.539	7.484	6.674	6.705	6.711	6.752	150-160	3.155	2168	99.9,99.9
170	7.794	7.778	7.802	7.769	7.355	7.358	7.378	7.396	160-170	2.081	2170	100,100
180	7.799	7.793	7.822	7.807	7.822	7.795	7.812	7.807	170-180	0.7328	2171	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

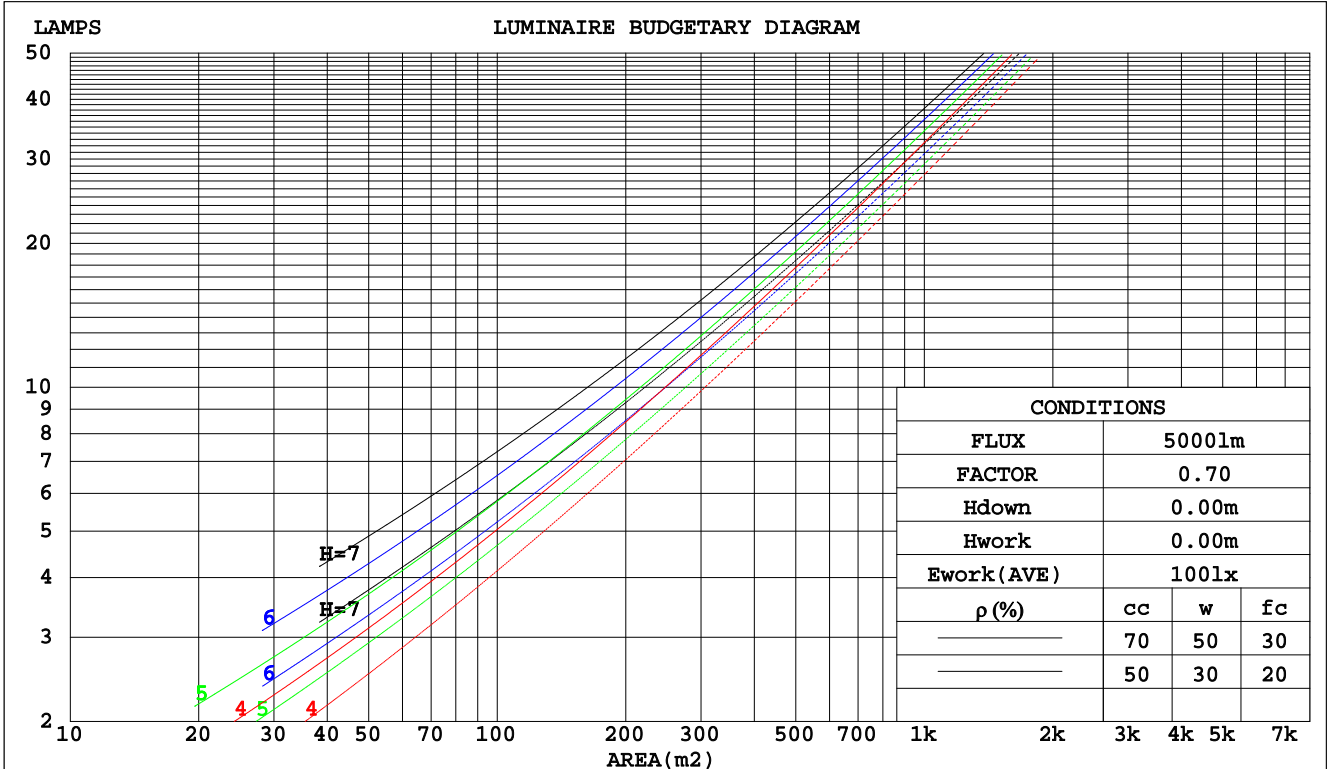
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.94	.97	.93	.90	.92	.90	.87	.89	.86	.84	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.77	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.36	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:

WEC AND CCEC

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.311	.177	.056	.304	.173	.055	.289	.166	.053	.276	.159	.051	.265	.153	.049	
2.0	.292	.160	.049	.286	.157	.048	.273	.152	.047	.262	.147	.046	.251	.142	.045	
3.0	.270	.144	.043	.264	.142	.043	.253	.137	.042	.243	.133	.041	.234	.129	.040	
4.0	.249	.130	.038	.244	.128	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.230	.117	.034	.226	.116	.034	.217	.113	.033	.209	.110	.033	.201	.108	.032	
6.0	.214	.107	.031	.210	.106	.030	.202	.103	.030	.194	.101	.030	.188	.099	.029	
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.175	.091	.027	
8.0	.186	.091	.026	.182	.090	.025	.176	.088	.025	.170	.086	.025	.165	.084	.025	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.076	.021	.151	.075	.021	.146	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.202	.202	.202	.172	.172	.172	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.192	.167	.146	.164	.144	.125	.112	.099	.087	.065	.057	.050	.021	.018	.016	
2.0	.184	.143	.109	.157	.123	.094	.108	.085	.066	.062	.050	.039	.020	.016	.013	
3.0	.176	.126	.086	.151	.108	.074	.104	.075	.052	.060	.044	.031	.019	.014	.010	
4.0	.168	.112	.070	.144	.097	.061	.099	.068	.043	.057	.040	.025	.018	.013	.008	
5.0	.161	.102	.059	.138	.088	.051	.095	.062	.036	.055	.036	.021	.018	.012	.007	
6.0	.154	.094	.051	.132	.081	.044	.091	.057	.031	.053	.033	.019	.017	.011	.006	
7.0	.147	.087	.045	.126	.075	.039	.087	.053	.028	.051	.031	.016	.016	.010	.005	
8.0	.141	.081	.040	.121	.070	.035	.084	.049	.025	.049	.029	.015	.016	.010	.005	
9.0	.134	.076	.037	.116	.066	.032	.080	.046	.023	.047	.027	.014	.015	.009	.005	
10.0	.129	.072	.034	.111	.062	.030	.077	.044	.021	.045	.026	.013	.015	.009	.004	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

NAME: SLIMB330-4K		TYPE:4000K					WEIGHT:				
DIM.: D330*25mm		SPEC.:D330 Dimmable 4000K					SERIAL No.:1				
MFR.: EVERFINE		SUR.:0.268*0.268					PROTECTION 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	21.1	22.6	21.4	22.9	23.1	21.2	22.7	21.4	22.9	23.1	
3H	22.5	23.9	22.9	24.2	24.5	22.6	24.0	22.9	24.2	24.5	
4H	23.1	24.4	23.4	24.7	25.0	23.1	24.4	23.5	24.7	25.0	
6H	23.4	24.7	23.8	25.0	25.3	23.5	24.7	23.8	25.0	25.3	
8H	23.5	24.7	23.9	25.0	25.3	23.6	24.8	23.9	25.1	25.4	
12H	23.5	24.7	23.9	25.0	25.3	23.6	24.7	24.0	25.1	25.4	
4H 2H	21.7	23.0	22.0	23.3	23.6	21.7	23.0	22.1	23.3	23.6	
3H	23.3	24.4	23.7	24.8	25.1	23.3	24.5	23.7	24.8	25.1	
4H	23.9	25.0	24.3	25.3	25.7	24.0	25.0	24.4	25.4	25.7	
6H	24.4	25.3	24.8	25.7	26.1	24.4	25.4	24.8	25.7	26.1	
8H	24.5	25.4	24.9	25.8	26.2	24.6	25.4	25.0	25.8	26.2	
12H	24.6	25.4	25.0	25.8	26.2	24.6	25.4	25.1	25.8	26.3	
8H 4H	24.1	25.0	24.6	25.4	25.8	24.2	25.1	24.6	25.4	25.9	
6H	24.7	25.4	25.2	25.9	26.3	24.8	25.5	25.2	25.9	26.4	
8H	24.9	25.6	25.4	26.0	26.5	24.9	25.6	25.4	26.0	26.5	
12H	25.0	25.6	25.5	26.0	26.6	25.1	25.6	25.6	26.1	26.6	
12H 4H	24.1	24.9	24.6	25.4	25.8	24.2	25.0	24.6	25.4	25.8	
6H	24.8	25.4	25.2	25.8	26.3	24.8	25.4	25.3	25.9	26.4	
8H	25.0	25.5	25.5	26.0	26.5	25.0	25.6	25.5	26.0	26.5	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 2171 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.7)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:

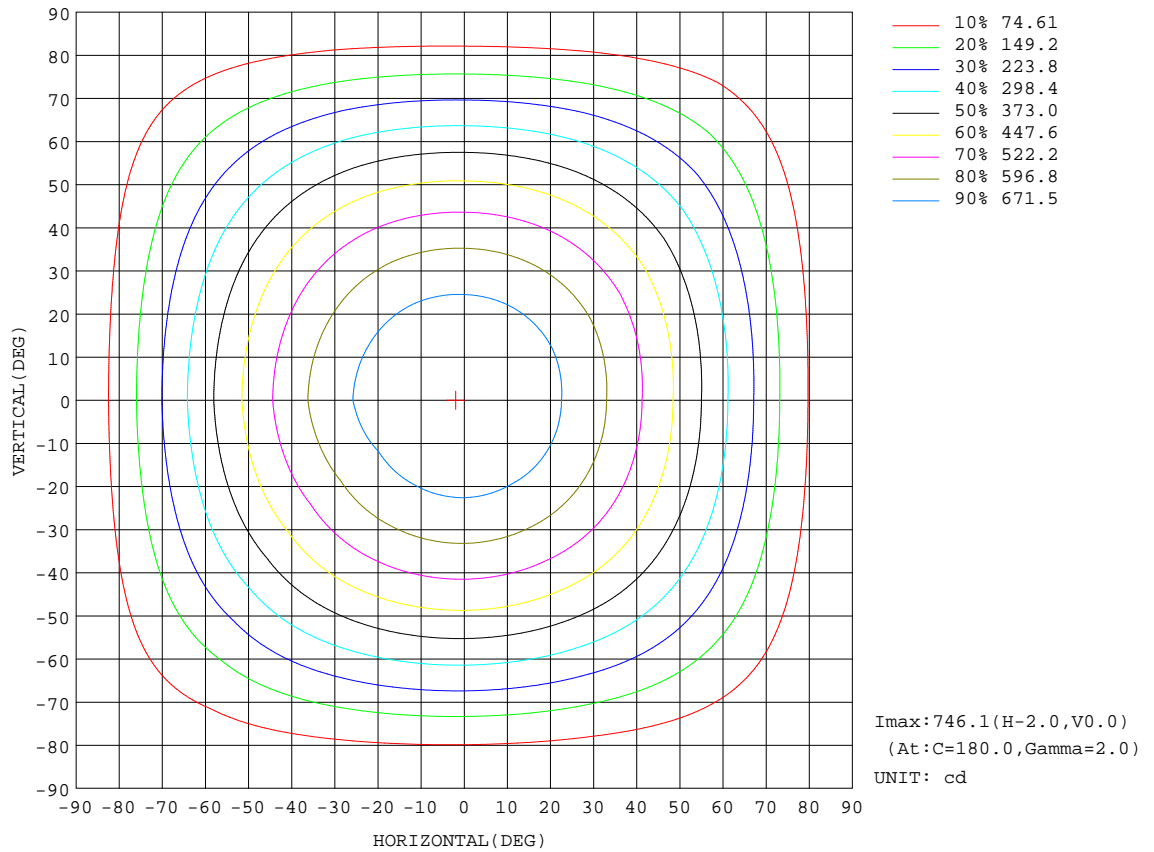
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:



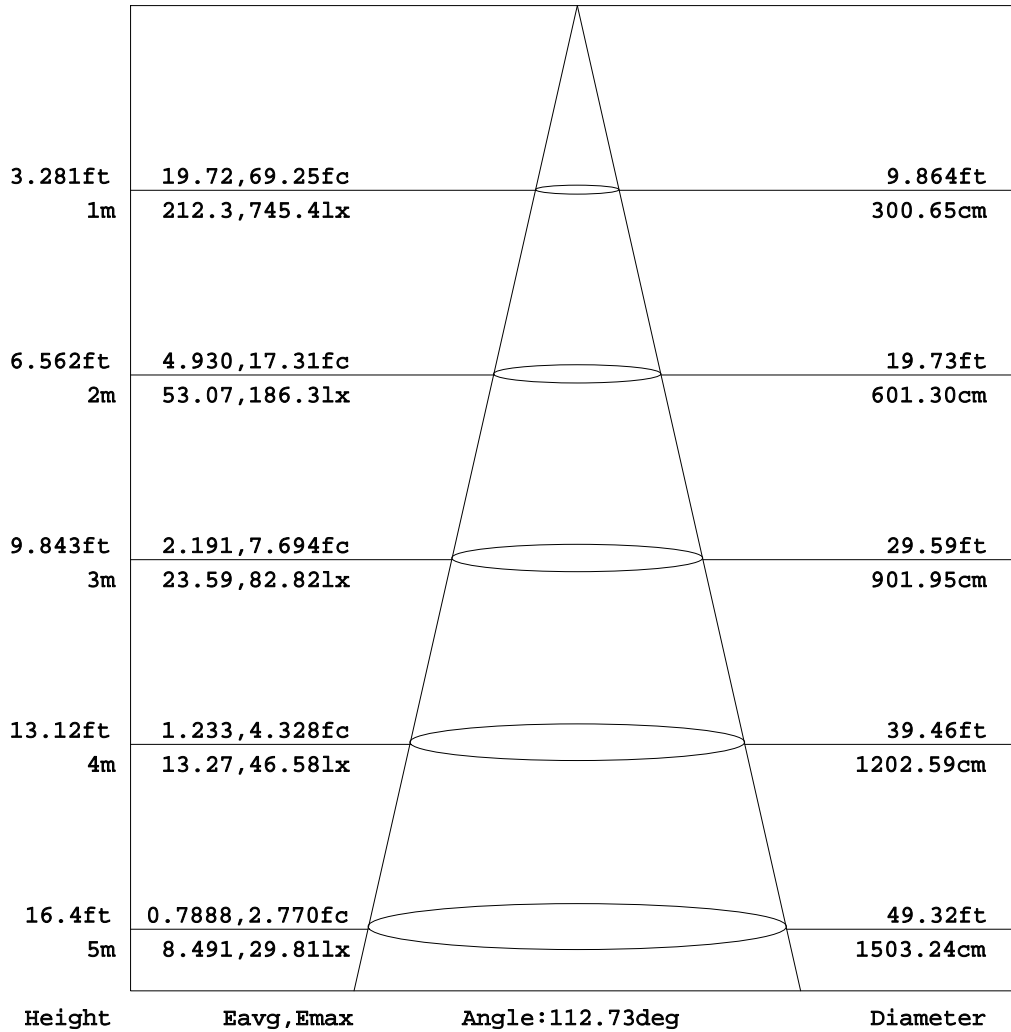
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.400m [K=1.0000]  
 Remarks:

AAI Figure

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:

Flux out:1581 lm



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

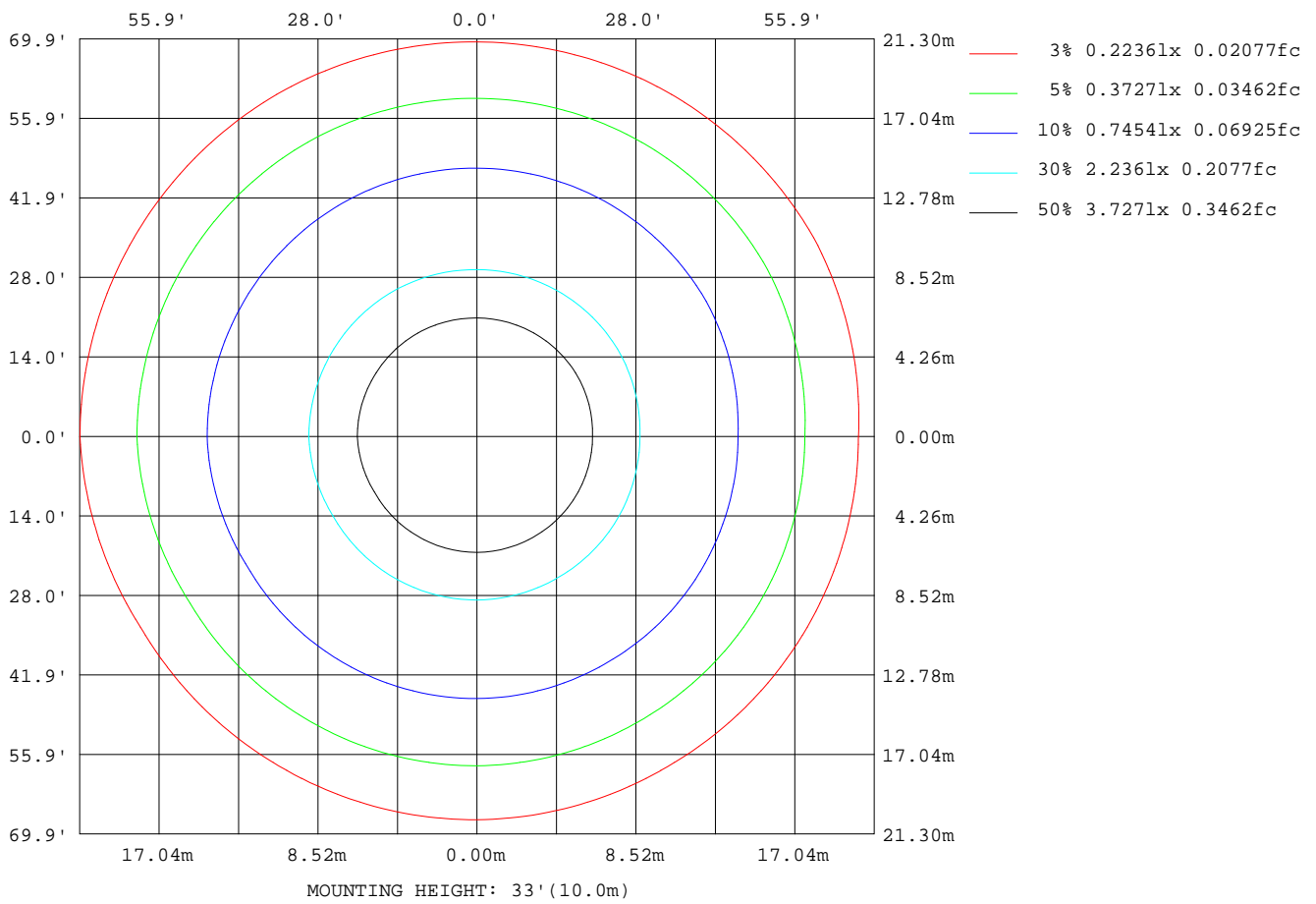
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:



**ISOLUX DIAGRAM**

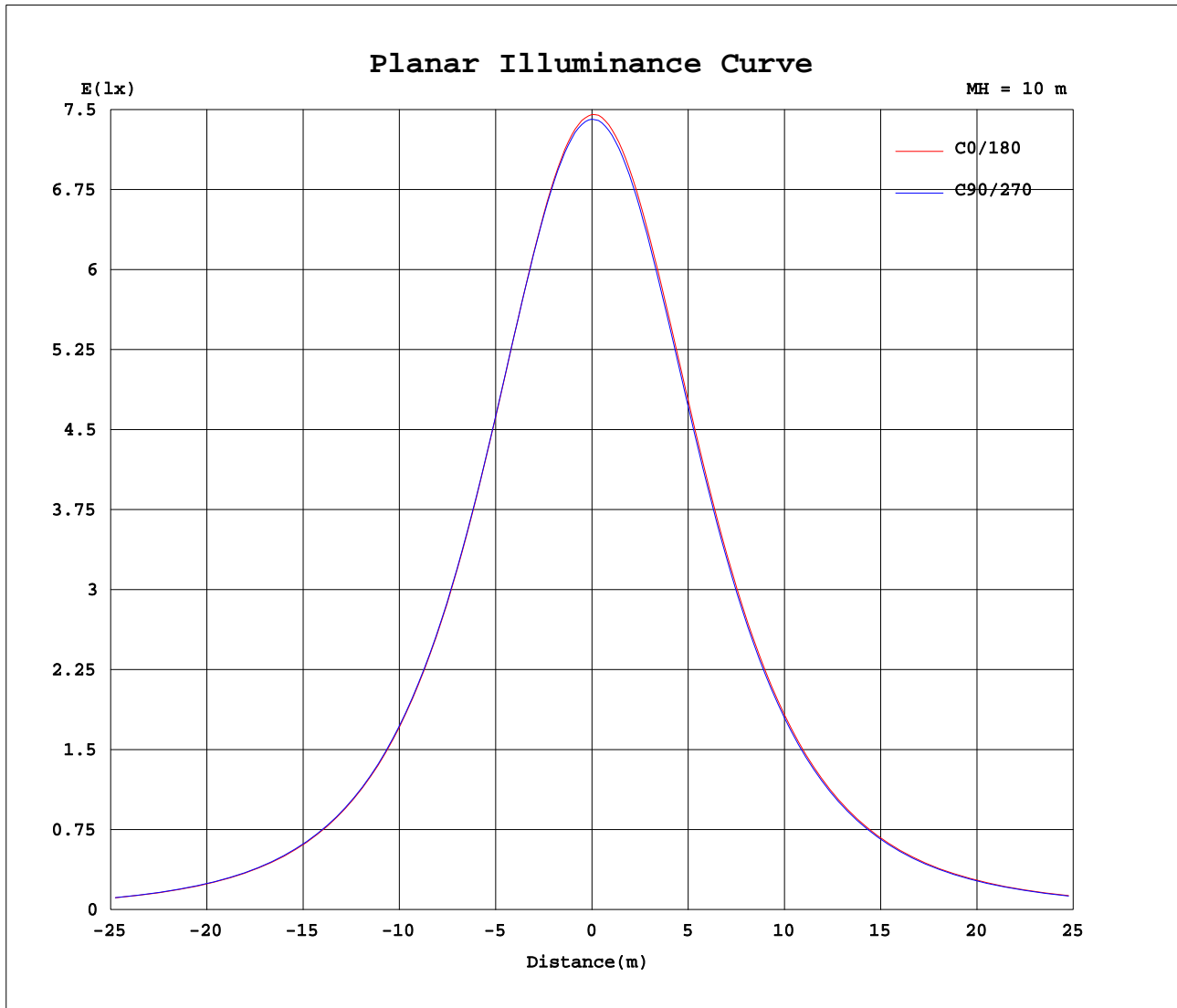
NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.400m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: SLIMB330-4K	TYPE:4000K	WEIGHT:
DIM.: D330*25mm	SPEC.:D330 Dimmable 4000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.268*0.268	PROTECTION ANGLE:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	745	743	742	741	740	740	745	743	742	741	740	740							
5	740	739	737	737	736	736	744	742	741	739	738	737							
10	728	727	725	726	726	726	737	734	733	730	729	727							
15	710	709	708	709	709	710	723	720	719	716	715	712							
20	686	685	685	686	686	688	703	700	699	695	693	690							
25	656	655	654	657	657	660	676	674	672	669	667	663							
30	621	620	619	622	623	626	644	642	640	636	634	630							
35	580	579	579	582	583	586	606	604	603	599	596	592							
40	534	534	533	537	539	542	564	562	561	556	554	549							
45	484	484	483	487	489	493	517	514	513	508	506	501							
50	430	430	430	434	436	441	465	462	462	457	454	449							
55	373	372	372	376	379	384	409	407	406	402	399	393							
60	312	312	312	316	319	324	350	348	348	343	340	334							
65	250	250	250	254	257	263	288	287	286	282	279	274							
70	188	187	187	191	194	200	225	223	224	219	217	211							
75	127	126	125	129	133	138	162	161	161	157	155	150							
80	71.2	70.8	69.8	73.5	76.1	80.6	102	101	101	97.8	95.9	92.1							
85	24.2	24.0	23.4	26.1	27.9	31.4	49.1	48.5	48.9	45.7	44.7	41.0							
90	4.28	4.27	4.26	4.23	4.21	4.23	7.39	7.40	8.04	6.01	5.28	3.60							
95	4.56	4.55	4.54	4.51	4.49	4.47	2.49	2.48	2.47	2.49	2.50	2.50							
100	4.86	4.85	4.84	4.81	4.78	4.76	2.69	2.70	2.70	2.71	2.74	2.75							
105	5.18	5.15	5.15	5.12	5.08	5.06	2.95	2.96	2.96	2.99	3.01	3.02							
110	5.48	5.45	5.45	5.43	5.38	5.35	3.25	3.25	3.25	3.29	3.29	3.31							
115	5.75	5.72	5.72	5.70	5.66	5.63	3.53	3.54	3.54	3.57	3.59	3.61							
120	6.00	5.98	5.97	5.96	5.92	5.89	3.83	3.85	3.85	3.88	3.90	3.91							
125	6.22	6.21	6.20	6.19	6.16	6.13	4.16	4.17	4.18	4.21	4.23	4.25							
130	6.43	6.43	6.41	6.40	6.38	6.35	4.50	4.51	4.53	4.54	4.56	4.59							
135	6.62	6.63	6.61	6.61	6.59	6.56	4.84	4.86	4.87	4.88	4.91	4.94							
140	6.81	6.82	6.80	6.80	6.78	6.75	5.20	5.22	5.24	5.24	5.27	5.30							
145	6.99	7.01	6.98	6.99	6.98	6.94	5.55	5.58	5.60	5.59	5.63	5.66							
150	7.17	7.17	7.15	7.17	7.16	7.12	5.92	5.95	5.98	5.96	5.99	6.04							
155	7.33	7.32	7.31	7.34	7.31	7.28	6.30	6.32	6.35	6.33	6.36	6.41							
160	7.53	7.51	7.49	7.54	7.51	7.46	6.67	6.69	6.73	6.71	6.72	6.78							
165	7.70	7.70	7.67	7.71	7.69	7.65	7.03	7.02	7.07	7.06	7.07	7.12							
170	7.79	7.79	7.77	7.80	7.78	7.76	7.36	7.34	7.38	7.38	7.38	7.41							
175	7.84	7.83	7.82	7.86	7.83	7.83	7.61	7.58	7.62	7.63	7.62	7.64							
180	7.80	7.79	7.80	7.82	7.80	7.81	7.82	7.78	7.81	7.81	7.81	7.81							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2019-03-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.400m [K=1.0000]  
 Remarks: