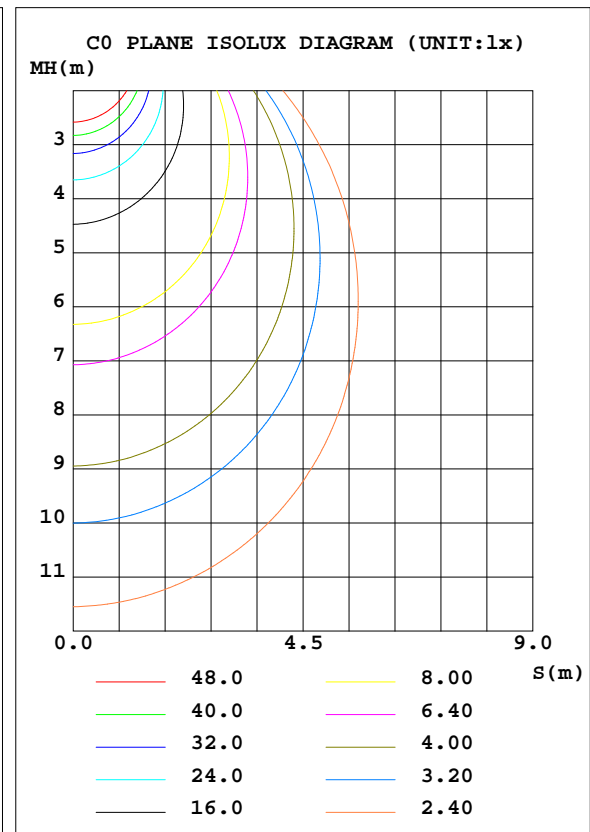
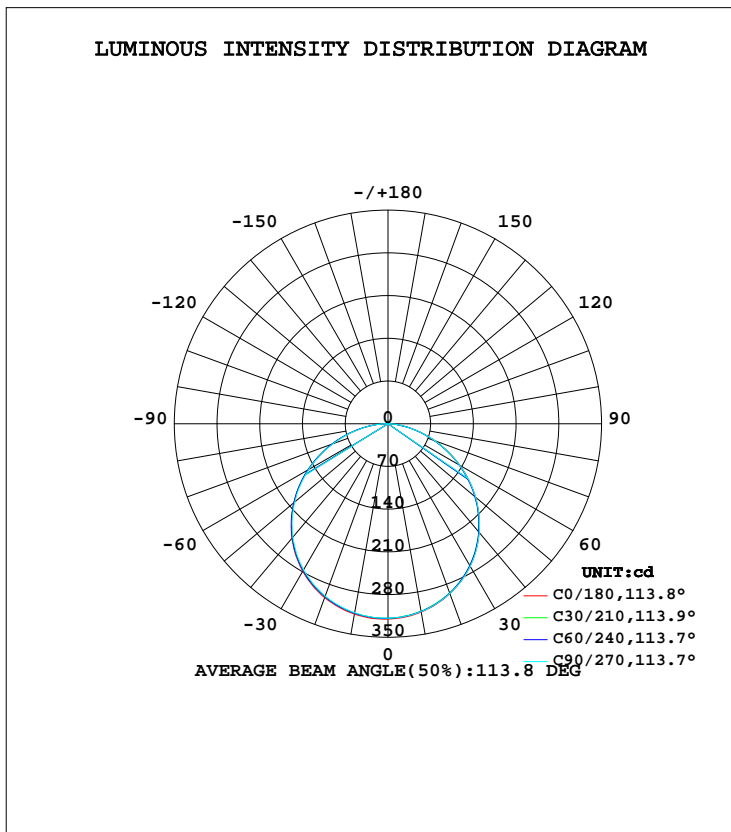


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.06 lm/W			
MODEL		I _{max} (cd)	320.2	S/MH(C0/180)	1.25
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	941.13	η UP, DN(C0-180)	0.9, 47.6
NOMINAL FLUX(lm)	941.131	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 51.0
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:2019-03-05

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	313.2	312.1	312.5	312.8	316.6	315.2	314.4	313.7	0- 10	30.19	30.19	3.21,3.21
20	296.4	295.2	296.2	297.2	303.2	301.5	300.5	299.0	10- 20	86.78	117.0	12.4,12.4
30	269.4	268.2	269.6	271.0	279.1	277.8	276.5	274.4	20- 30	132.3	249.3	26.5,26.5
40	232.4	231.3	232.7	234.6	244.9	244.0	242.3	240.0	30- 40	160.5	409.8	43.5,43.5
50	187.4	186.2	187.4	189.8	201.8	201.2	199.5	196.9	40- 50	167.0	576.8	61.3,61.3
60	136.0	134.7	135.2	138.1	150.7	151.1	149.8	146.9	50- 60	151.0	727.7	77.3,77.3
70	81.87	81.08	81.66	84.11	96.79	97.77	95.79	93.21	60- 70	114.8	842.5	89.5,89.5
80	31.51	31.28	31.94	33.40	43.25	45.08	43.34	41.15	70- 80	66.16	908.7	96.6,96.6
90	1.842	1.819	1.801	1.834	3.148	4.080	3.563	2.578	80- 90	18.63	927.3	98.5,98.5
100	2.077	2.076	2.082	2.080	1.150	1.200	1.211	1.199	90-100	1.770	929.1	98.7,98.7
110	2.353	2.325	2.343	2.299	1.388	1.387	1.400	1.387	100-110	1.845	931.0	98.9,98.9
120	2.599	2.550	2.553	2.537	1.659	1.653	1.645	1.646	110-120	1.961	932.9	99.1,99.1
130	2.790	2.760	2.762	2.754	1.953	1.958	1.940	1.945	120-130	1.997	934.9	99.3,99.3
140	2.965	2.954	2.940	2.942	2.251	2.288	2.263	2.263	130-140	1.920	936.8	99.5,99.5
150	3.110	3.122	3.087	3.087	2.566	2.618	2.581	2.585	140-150	1.711	938.5	99.7,99.7
160	3.278	3.251	3.245	3.225	2.902	2.934	2.896	2.900	150-160	1.370	939.9	99.9,99.9
170	3.392	3.364	3.371	3.356	3.196	3.209	3.193	3.188	160-170	0.9005	940.8	100,100
180	3.407	3.405	3.418	3.415	3.413	3.407	3.415	3.413	170-180	0.3183	941.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

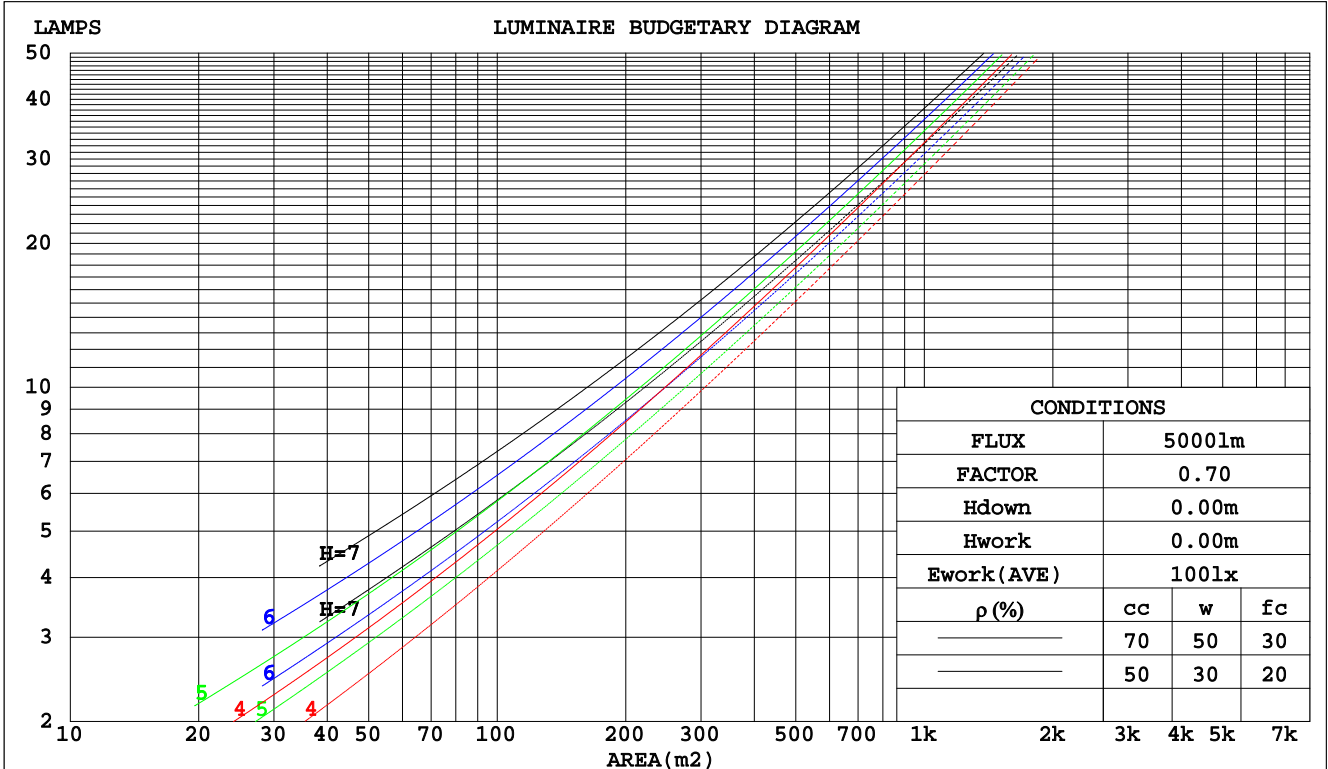
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-05

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: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	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	.96	.93	.90	.92	.90	.87	.88	.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	.67	.62	.71	.65	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.55	.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	.45	.40	.51	.44	.39	.49	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.30	.25	.23



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-05

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: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	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	.290	.166	.053	.277	.160	.051	.265	.154	.049	
2.0	.293	.160	.049	.286	.158	.049	.273	.152	.047	.262	.147	.046	.251	.142	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.137	.042	.243	.133	.041	.234	.129	.040	
4.0	.250	.130	.038	.244	.128	.038	.235	.124	.037	.225	.121	.037	.217	.118	.036	
5.0	.231	.118	.034	.226	.116	.034	.217	.113	.033	.209	.110	.033	.201	.108	.032	
6.0	.214	.107	.031	.210	.106	.030	.202	.103	.030	.195	.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	.085	.025	
9.0	.174	.084	.024	.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	.145	.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:2019-03-05

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: SLIMB180-3K		TYPE:3000K					WEIGHT:				
DIM.: D180*15mm		SPEC.:D180 Dimmable 3000K					SERIAL No.:1				
MFR.: EVERFINE		SUR.:0.126*0.126					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	23.5	25.0	23.8	25.2	25.5	23.5	25.0	23.7	25.2	25.4	
3H	24.9	26.3	25.2	26.6	26.8	24.9	26.3	25.2	26.5	26.8	
4H	25.4	26.8	25.8	27.0	27.3	25.4	26.7	25.7	27.0	27.3	
6H	25.8	27.0	26.1	27.3	27.6	25.8	27.0	26.1	27.3	27.6	
8H	25.9	27.1	26.2	27.4	27.7	25.9	27.1	26.2	27.4	27.7	
12H	25.9	27.1	26.3	27.4	27.7	25.9	27.1	26.3	27.4	27.7	
4H 2H	24.0	25.4	24.4	25.6	25.9	24.0	25.4	24.4	25.6	25.9	
3H	25.6	26.8	26.0	27.1	27.5	25.6	26.8	26.0	27.1	27.4	
4H	26.3	27.4	26.7	27.7	28.1	26.3	27.3	26.7	27.7	28.0	
6H	26.8	27.7	27.2	28.1	28.5	26.7	27.7	27.2	28.1	28.5	
8H	26.9	27.8	27.3	28.2	28.6	26.9	27.7	27.3	28.1	28.6	
12H	27.0	27.8	27.4	28.2	28.6	26.9	27.8	27.4	28.2	28.6	
8H 4H	26.5	27.4	27.0	27.8	28.2	26.5	27.4	26.9	27.8	28.2	
6H	27.1	27.8	27.6	28.3	28.7	27.1	27.8	27.6	28.2	28.7	
8H	27.3	28.0	27.8	28.4	28.9	27.3	27.9	27.8	28.4	28.9	
12H	27.4	28.0	27.9	28.4	29.0	27.4	28.0	27.9	28.5	29.0	
12H 4H	26.5	27.3	27.0	27.7	28.2	26.5	27.3	26.9	27.7	28.1	
6H	27.2	27.8	27.6	28.2	28.7	27.1	27.8	27.6	28.2	28.7	
8H	27.4	27.9	27.9	28.4	28.9	27.4	27.9	27.9	28.4	28.9	
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 / - 0.2					

CIE Pub.117 Corrected 941.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.2)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-05

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: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	PROTECTION ANGLE:

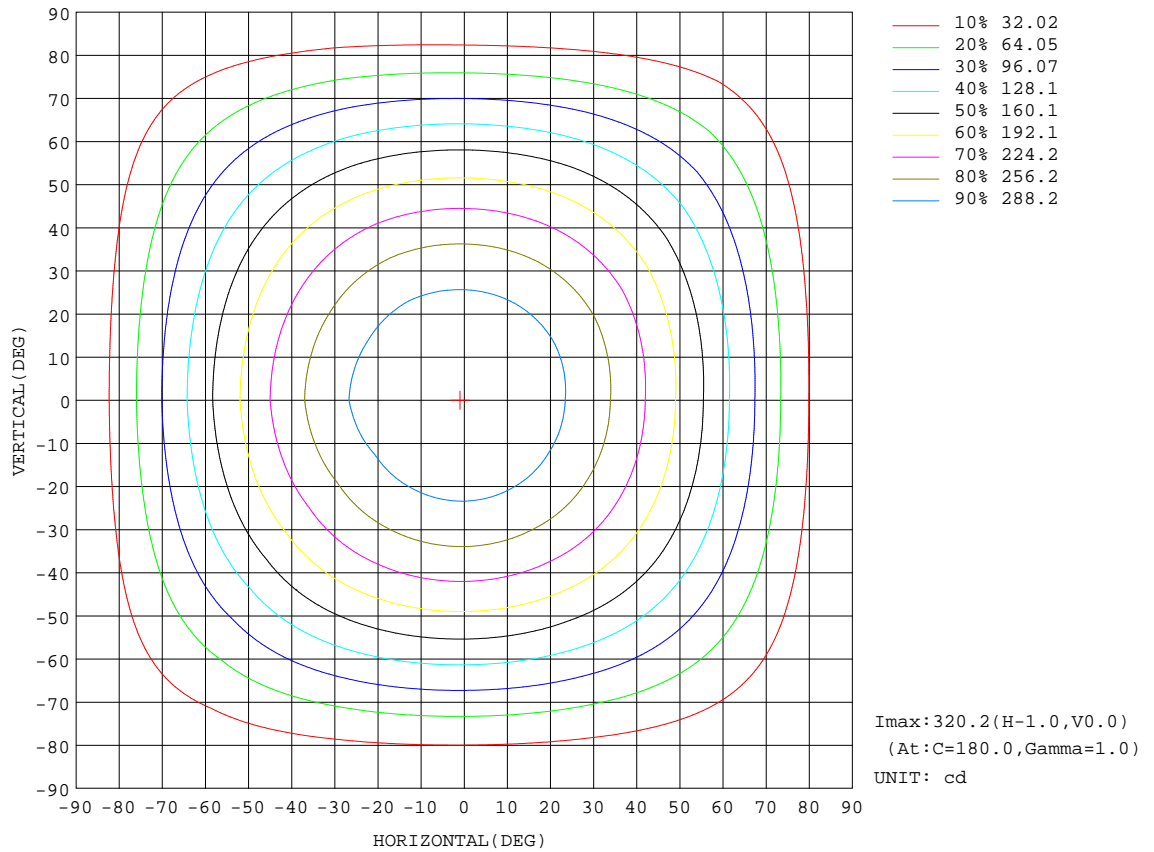
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	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	68
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:2019-03-05

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: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	PROTECTION ANGLE:



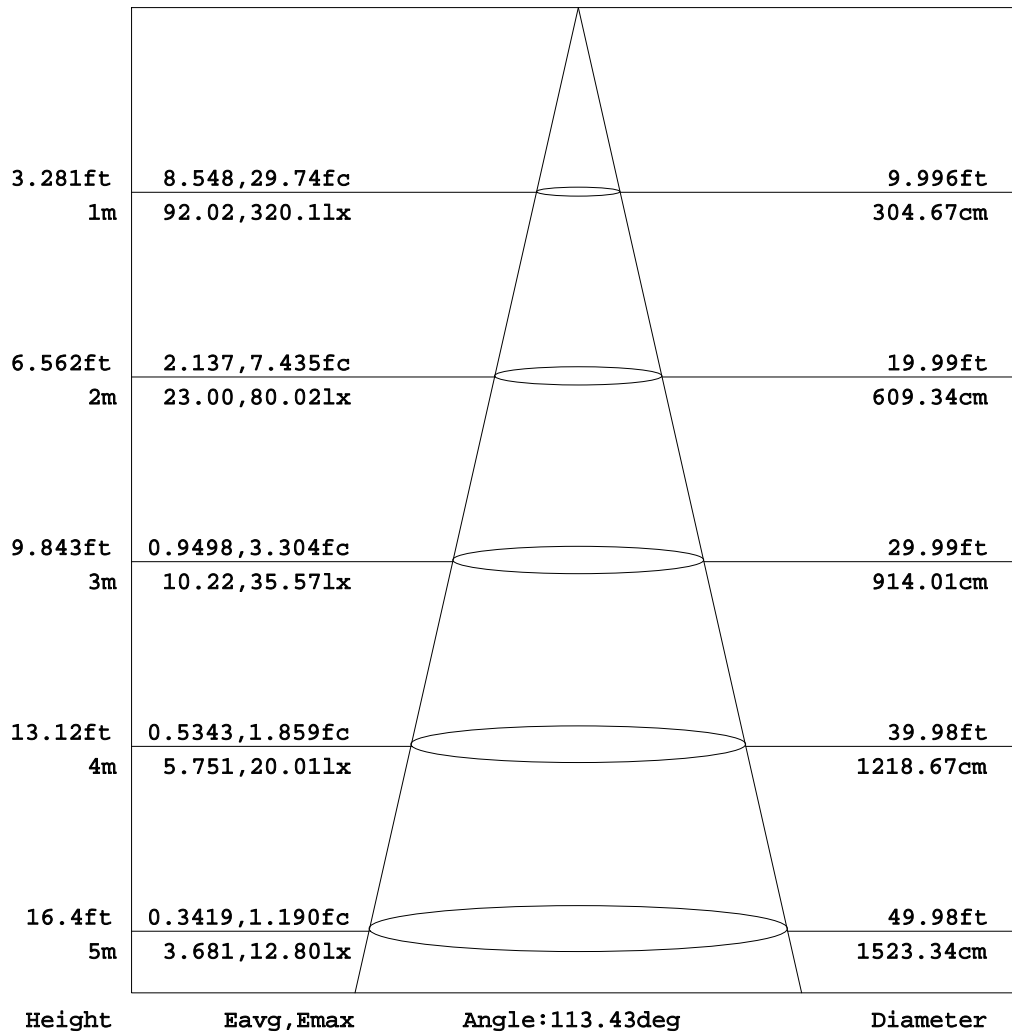
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-03-05

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: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	PROTECTION ANGLE:

Flux out:685.4 lm



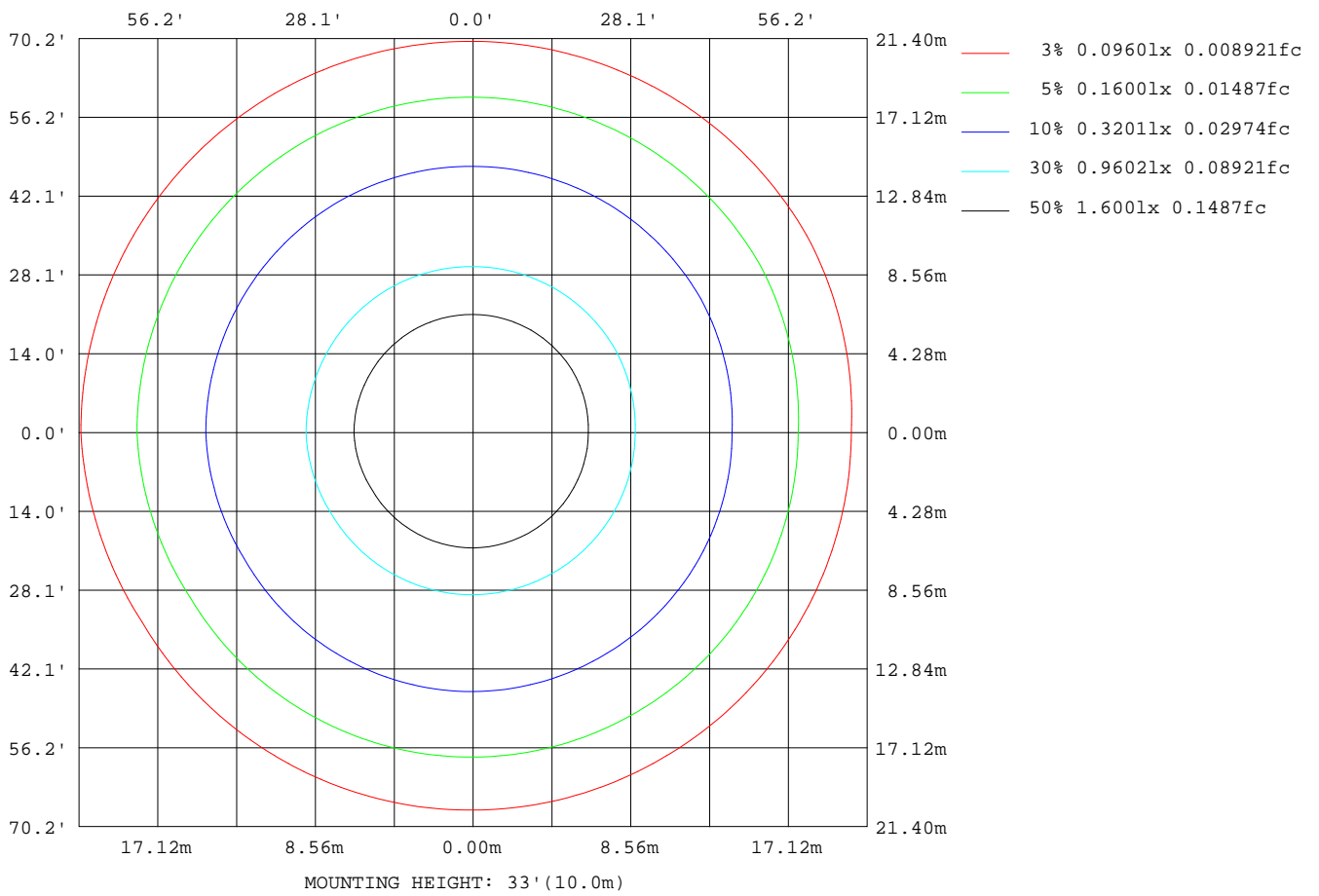
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-05

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

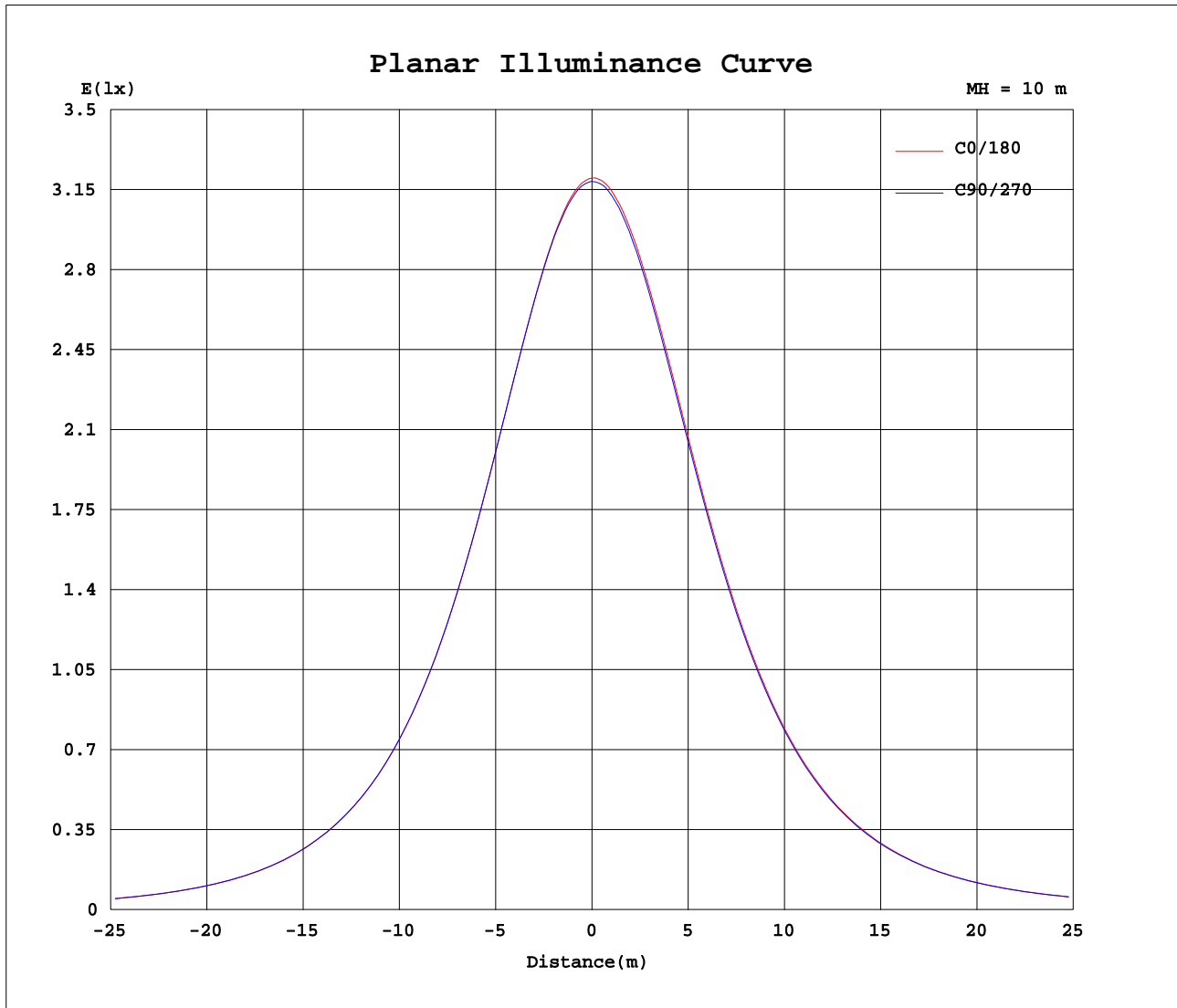
NAME: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-05

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: 2019-03-05

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: SLIMB180-3K	TYPE:3000K	WEIGHT:
DIM.: D180*15mm	SPEC.:D180 Dimmable 3000K	SERIAL No.:1
MFR.: EVERFINE	SUR.:0.126*0.126	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	320	319	319	319	318	318	320	319	319	319	318	318							
5	318	316	317	317	317	317	320	318	318	318	318	317							
10	313	312	312	313	313	313	317	315	315	314	314	313							
15	306	305	305	306	306	307	311	309	310	309	308	307							
20	296	295	295	296	297	298	303	301	302	300	300	298							
25	284	283	283	284	285	286	293	291	291	290	289	287							
30	269	268	268	270	270	272	279	278	278	277	275	274							
35	252	251	251	252	253	255	263	262	262	261	260	257							
40	232	231	231	233	234	236	245	244	244	242	241	239							
45	211	210	209	211	212	214	224	223	224	222	221	218							
50	187	186	186	187	189	191	202	201	201	199	198	196							
55	162	162	161	162	163	166	177	177	177	175	174	171							
60	136	135	134	135	137	139	151	151	151	150	148	146							
65	109	108	108	109	110	112	124	125	125	123	122	119							
70	81.9	81.6	80.6	81.7	82.8	85.4	96.8	97.7	97.8	95.8	94.4	92.1							
75	55.6	55.4	54.6	55.6	56.5	59.1	69.4	70.5	71.1	68.8	67.5	65.5							
80	31.5	31.4	31.1	31.9	32.6	34.2	43.3	44.5	45.6	43.3	41.9	40.4							
85	10.5	10.5	10.9	11.7	12.4	13.1	19.9	21.0	22.1	20.4	19.3	18.3							
90	1.84	1.83	1.81	1.80	1.80	1.87	3.15	3.68	4.48	3.56	3.31	1.85							
95	1.94	1.93	1.94	1.96	1.95	1.97	1.11	1.16	1.13	1.08	1.19	1.07							
100	2.08	2.06	2.09	2.08	2.08	2.08	1.15	1.20	1.20	1.21	1.24	1.16							
105	2.21	2.18	2.22	2.21	2.19	2.17	1.26	1.28	1.29	1.31	1.32	1.27							
110	2.35	2.31	2.34	2.34	2.30	2.30	1.39	1.39	1.38	1.40	1.40	1.38							
115	2.47	2.43	2.43	2.44	2.42	2.42	1.52	1.52	1.50	1.52	1.51	1.51							
120	2.60	2.55	2.55	2.55	2.54	2.53	1.66	1.67	1.64	1.65	1.64	1.65							
125	2.70	2.66	2.65	2.66	2.65	2.65	1.81	1.81	1.78	1.79	1.79	1.80							
130	2.79	2.77	2.75	2.76	2.76	2.75	1.95	1.96	1.95	1.94	1.94	1.95							
135	2.88	2.87	2.85	2.85	2.85	2.85	2.10	2.12	2.14	2.10	2.10	2.11							
140	2.97	2.97	2.94	2.94	2.95	2.94	2.25	2.28	2.30	2.26	2.25	2.27							
145	3.03	3.06	3.02	3.01	3.02	3.01	2.41	2.44	2.47	2.42	2.41	2.44							
150	3.11	3.14	3.11	3.09	3.09	3.08	2.57	2.61	2.63	2.58	2.57	2.60							
155	3.20	3.23	3.18	3.18	3.17	3.15	2.73	2.76	2.80	2.73	2.73	2.76							
160	3.28	3.27	3.23	3.24	3.23	3.22	2.90	2.91	2.95	2.90	2.89	2.91							
165	3.36	3.34	3.31	3.32	3.31	3.29	3.06	3.06	3.10	3.05	3.04	3.06							
170	3.39	3.37	3.36	3.37	3.36	3.35	3.20	3.19	3.23	3.19	3.18	3.20							
175	3.41	3.41	3.41	3.42	3.41	3.40	3.31	3.31	3.33	3.31	3.30	3.31							
180	3.41	3.40	3.41	3.42	3.42	3.42	3.41	3.40	3.42	3.42	3.42	3.41							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-05

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: