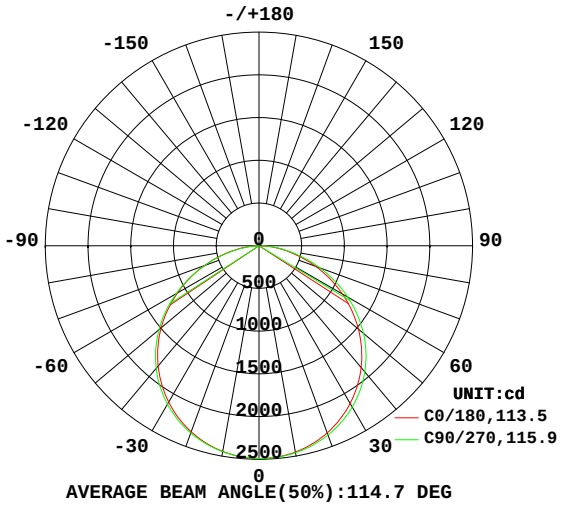
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

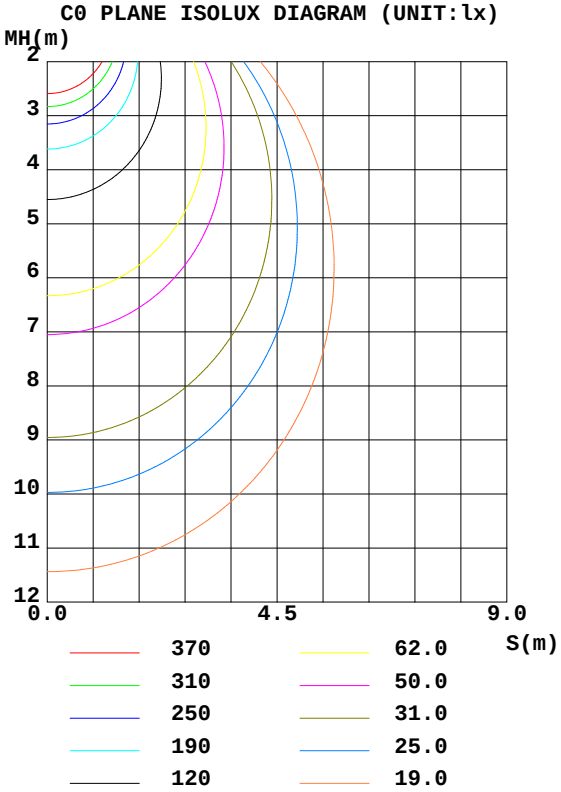
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 97.93 lm/W	
MODEL	2835 5700K	Imax(cd)	2490	S/MH(C0/180)	1.26
NOMINAL POWER(W)	72	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)		TOTAL FLUX(lm)	7313.0	η UP,DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	7313	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):114.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [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	2452	2459	2460	2457	2445	2443	2448	2446	0- 10	235.8	235.8	3.22,3.22
20	2332	2352	2357	2346	2318	2318	2333	2323	10- 20	678.4	914.2	12.5,12.5
30	2132	2166	2181	2159	2114	2118	2141	2124	20- 30	1036	1950	26.7,26.7
40	1860	1903	1927	1899	1836	1842	1872	1848	30- 40	1262	3212	43.9,43.9
50	1520	1569	1597	1567	1495	1498	1528	1505	40- 50	1320	4532	62,62
60	1126	1169	1198	1171	1099	1097	1118	1100	50- 60	1198	5730	78.4,78.4
70	704.7	739.9	758.4	743.8	680.9	667.4	675.1	667.1	60- 70	911.1	6641	90.8,90.8
80	307.1	332.3	339.0	336.3	282.6	263.2	260.5	257.2	70- 80	522.4	7163	98,98
90	31.20	37.08	42.46	38.51	2.975	3.284	3.457	3.242	80- 90	149.6	7313	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3875.9 lm

%lum = 53.0%
%lamp = 53.0%

Conical surface Flux(120deg): 5729.9 lm

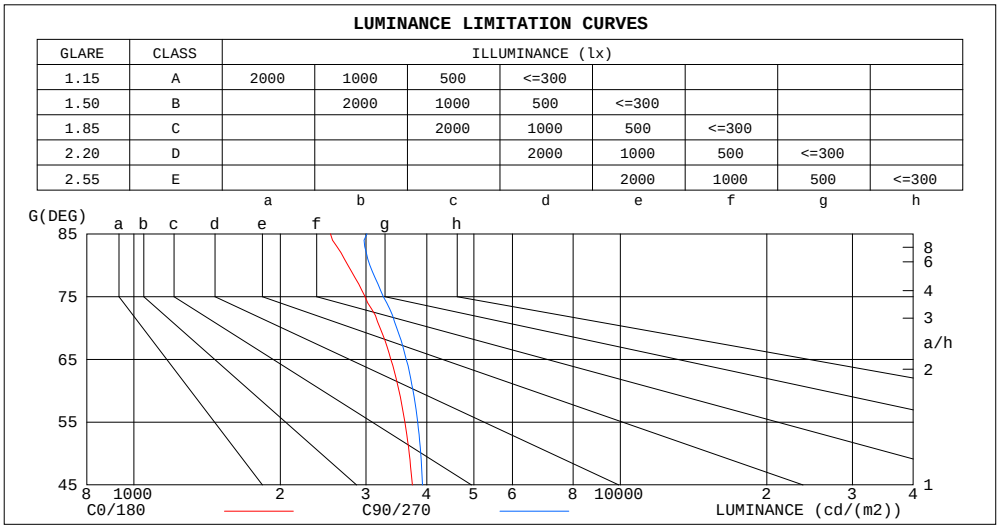
%lum = 78.4%
%lamp = 78.4%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2536	3014
80	2754	3055
75	2986	3256
70	3208	3470
65	3375	3629
60	3506	3748
55	3607	3833
50	3682	3888
45	3739	3921

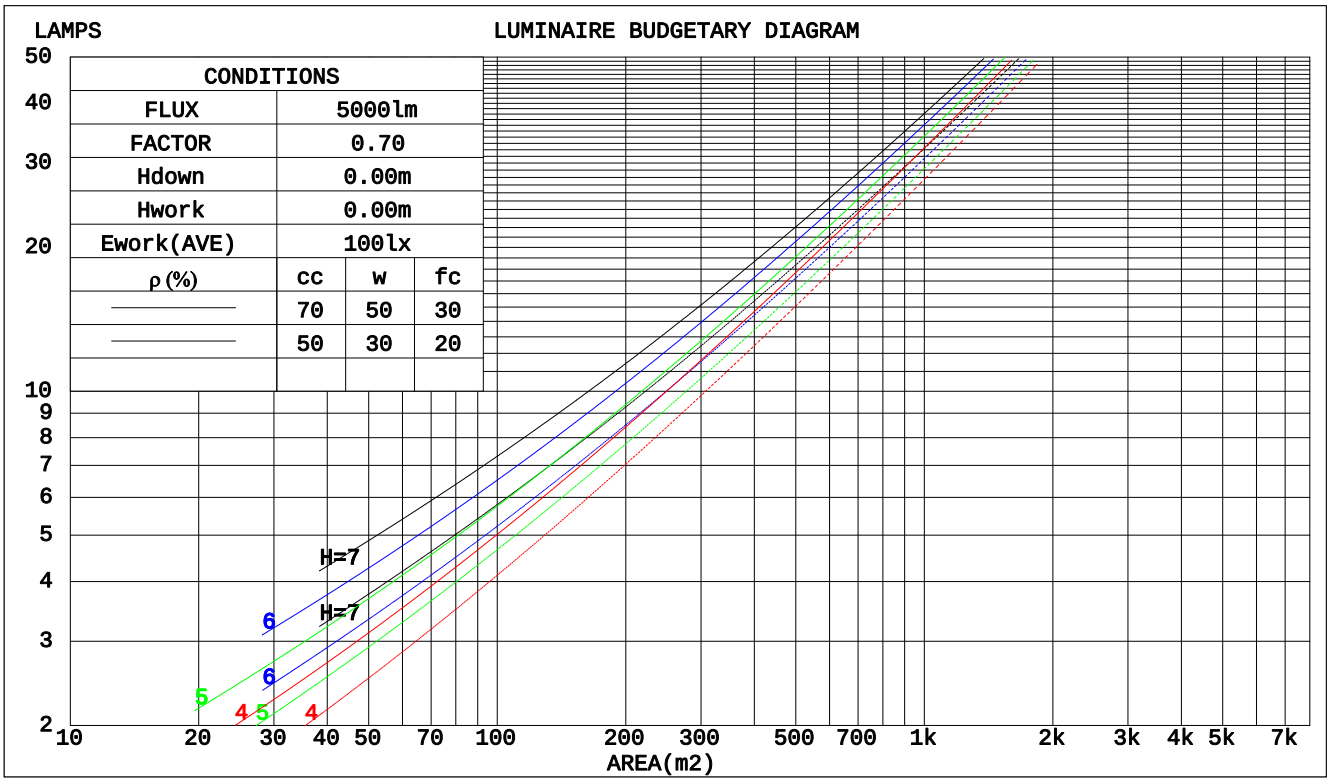
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding 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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.62	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding 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 Coeffcients(WEC)									
0.0																
1.0	.313	.178	.056	.306	.175	.055	.293	.168	.054	.281	.162	.052	.269	.156	.050	
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.046	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.238	.132	.041	
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.037	.228	.123	.037	.220	.120	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.191	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.154	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	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	10.5	12.1	10.8	12.3	12.5	10.8	12.3	11.0	12.5	12.7
3H	12.1	13.5	12.4	13.7	13.9	12.4	13.8	12.7	14.0	14.3
4H	12.7	14.0	13.0	14.3	14.5	13.0	14.4	13.3	14.6	14.9
6H	13.1	14.4	13.4	14.7	14.9	13.5	14.8	13.8	15.0	15.3
8H	13.3	14.5	13.6	14.8	15.1	13.7	14.9	14.0	15.2	15.5
12H	13.4	14.5	13.7	14.8	15.1	13.8	15.0	14.1	15.3	15.6
4H 2H	11.2	12.5	11.5	12.8	13.1	11.4	12.7	11.7	13.0	13.2
3H	12.9	14.1	13.3	14.4	14.7	13.2	14.3	13.5	14.6	14.9
4H	13.6	14.7	14.0	15.0	15.4	13.9	15.0	14.3	15.3	15.7
6H	14.2	15.2	14.6	15.5	15.9	14.5	15.5	14.9	15.9	16.2
8H	14.4	15.3	14.8	15.7	16.1	14.8	15.7	15.2	16.0	16.4
12H	14.6	15.4	15.0	15.8	16.2	15.0	15.8	15.4	16.2	16.6
8H 4H	13.9	14.8	14.4	15.2	15.6	14.2	15.1	14.6	15.5	15.8
6H	14.7	15.4	15.1	15.8	16.3	15.0	15.7	15.4	16.1	16.6
8H	15.0	15.7	15.5	16.1	16.5	15.3	16.0	15.8	16.4	16.9
12H	15.2	15.8	15.7	16.3	16.7	15.6	16.2	16.1	16.6	17.1
12H 4H	14.0	14.8	14.4	15.2	15.6	14.2	15.0	14.6	15.4	15.8
6H	14.8	15.4	15.2	15.9	16.3	15.1	15.7	15.5	16.1	16.6
8H	15.1	15.7	15.6	16.1	16.6	15.4	16.0	15.9	16.5	16.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 7313 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.9)
Area: 0.641025 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

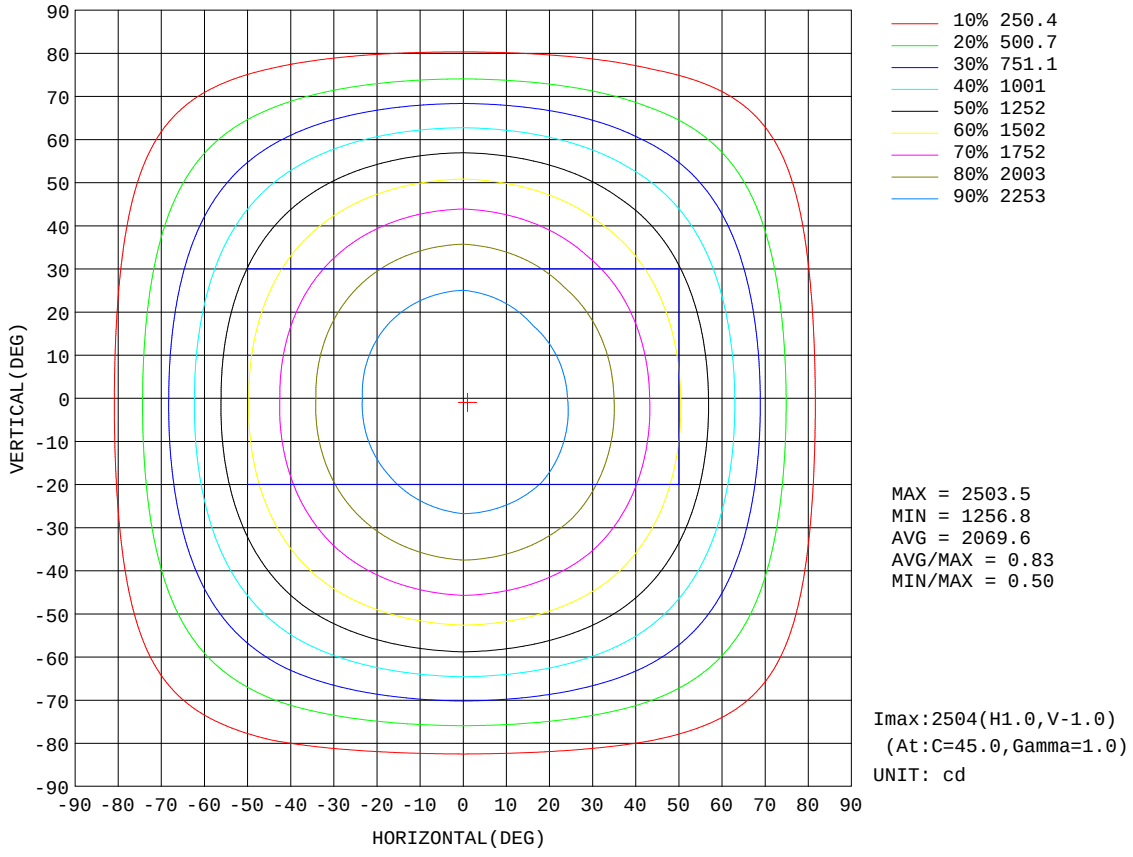
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:



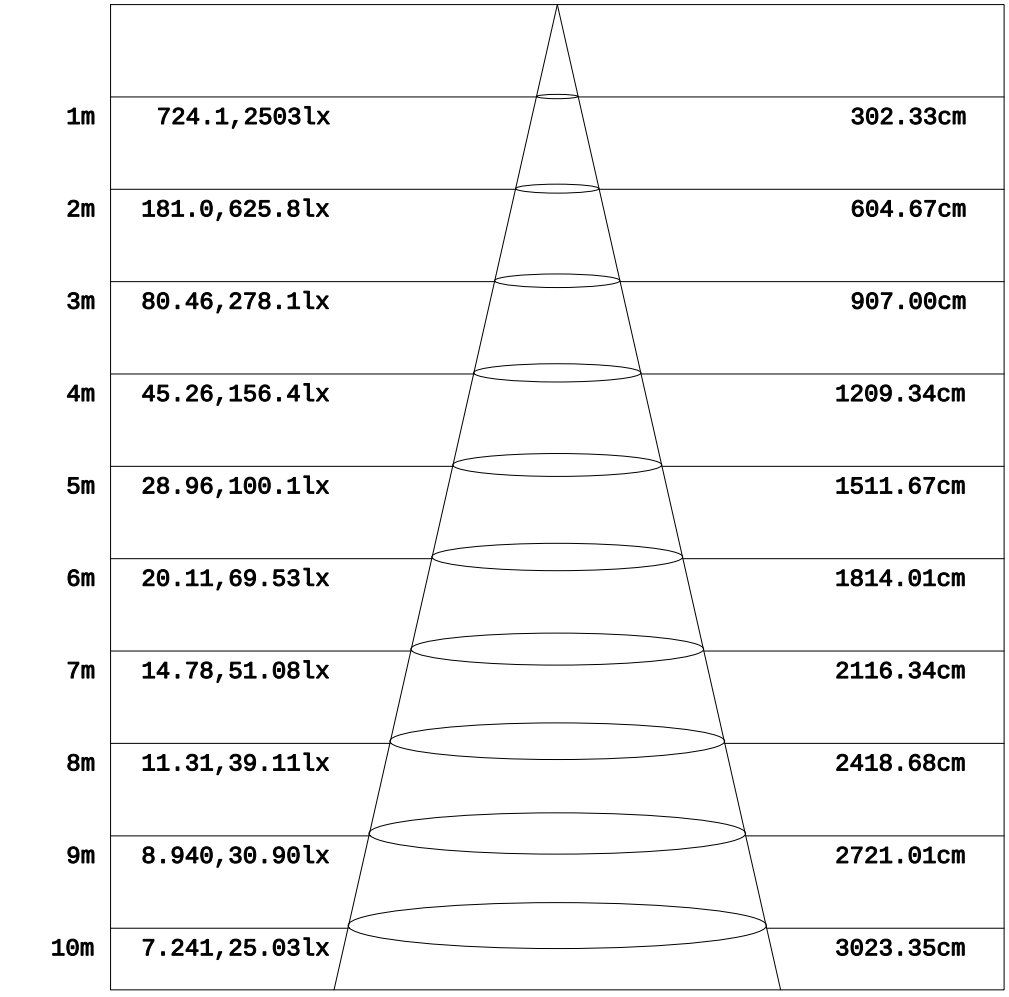
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

Flux out:5394 lm



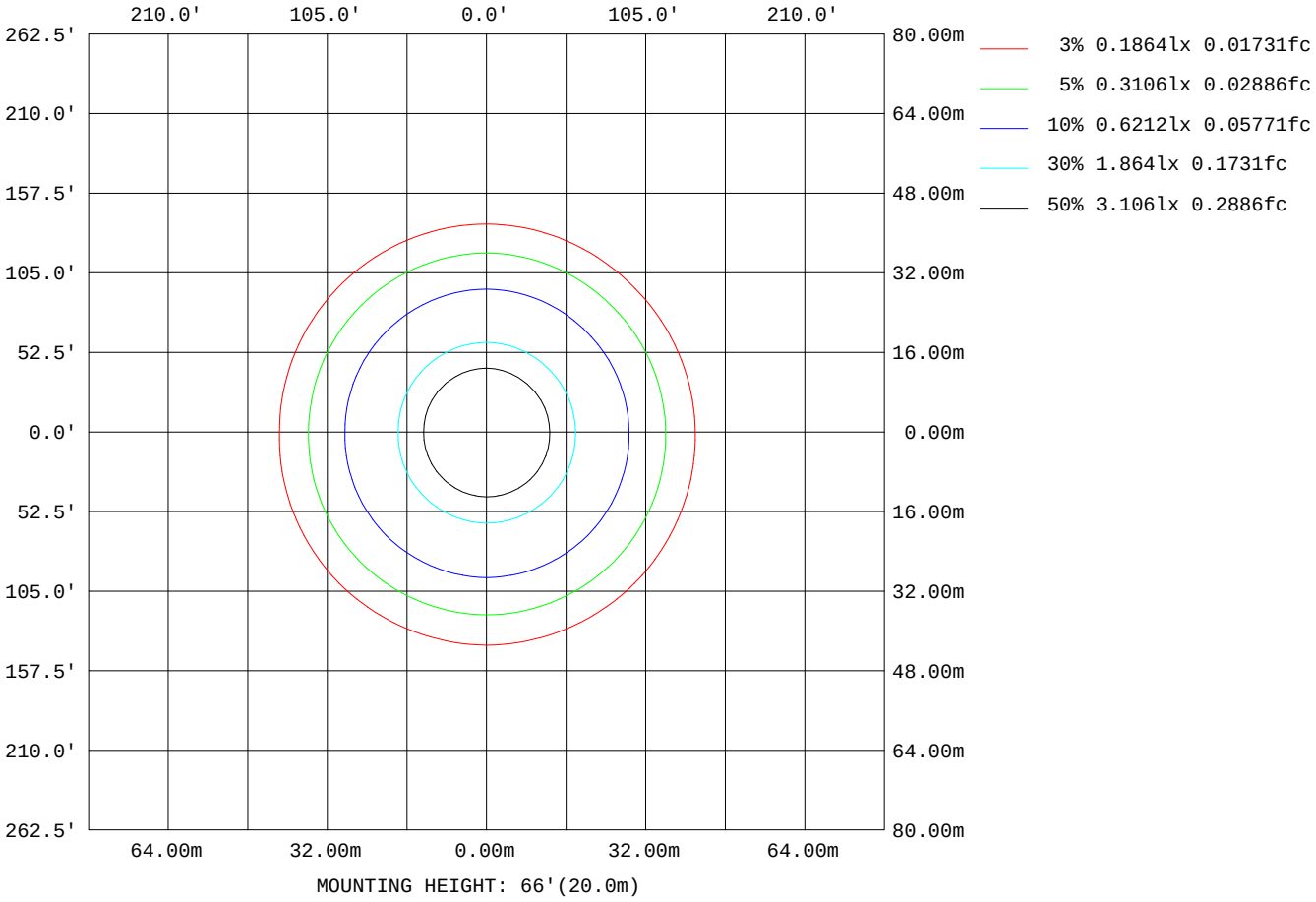
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

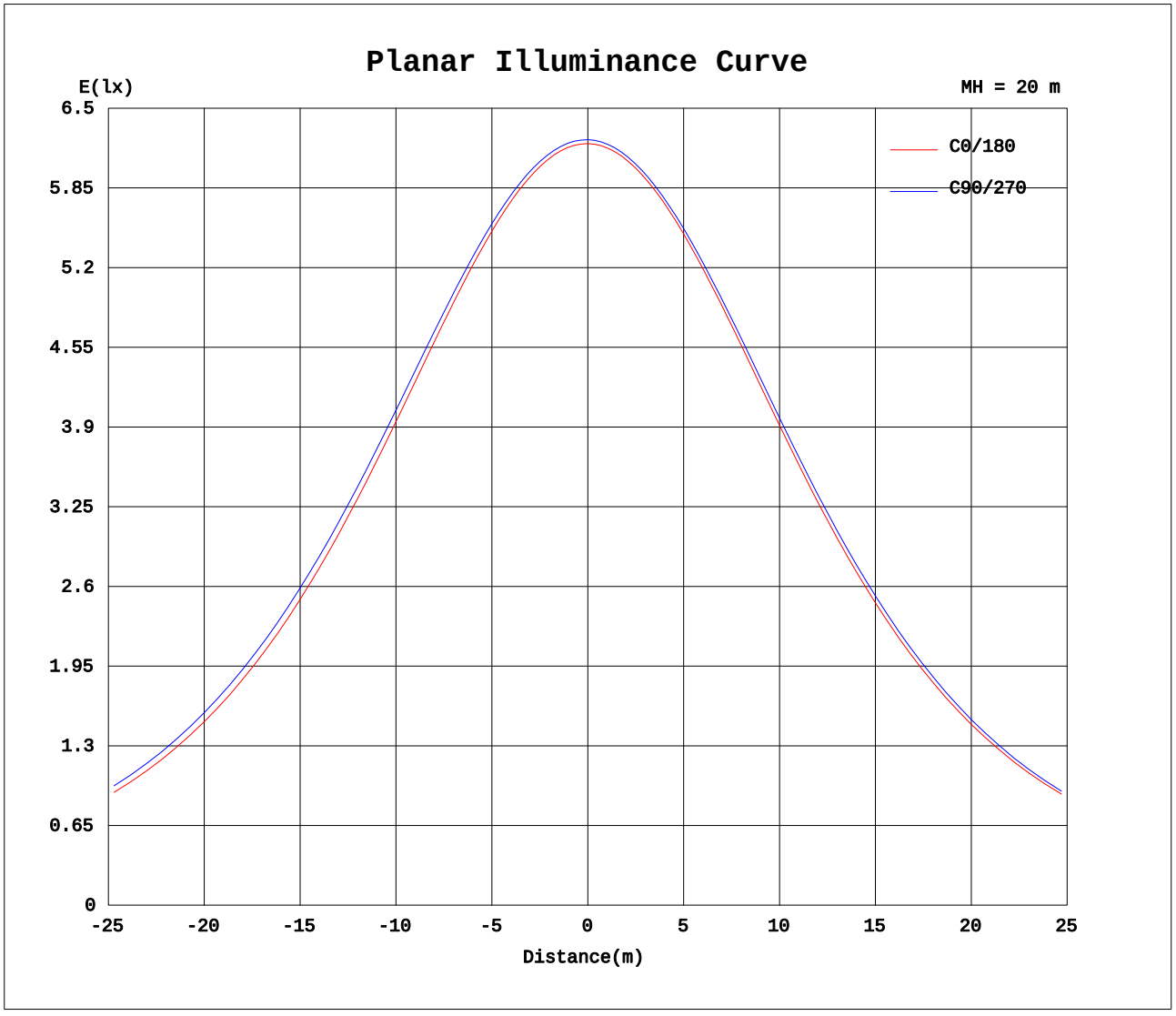
AvgL	cd/m2
L_0~180(65)av	3335
L_0~180(75)av	2928
L_0~180(85)av	2271
L_90~270(65)av	3466
L_90~270(75)av	3006
L_90~270(85)av	2320
L_45(65)av	3400
L_45(75)av	2964
L_45(85)av	2300

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.45V I:0.3466A P:74.674W PF:0.9817 Freq:49.99Hz Lamp Flux:7313x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0	2490	2490	2490	2490	2490	2490	2490	2490
5	2481	2484	2483	2483	2478	2476	2477	2477
10	2452	2459	2460	2457	2445	2443	2448	2446
15	2402	2416	2418	2411	2391	2389	2400	2394
20	2332	2352	2357	2346	2318	2318	2333	2323
25	2242	2268	2279	2262	2225	2227	2247	2233
30	2132	2166	2181	2159	2114	2118	2141	2124
35	2005	2044	2064	2038	1983	1990	2016	1996
40	1860	1903	1927	1899	1836	1842	1872	1848
45	1698	1745	1772	1741	1672	1678	1708	1684
50	1520	1569	1597	1567	1495	1498	1528	1505
55	1329	1378	1405	1377	1302	1305	1333	1310
60	1126	1169	1198	1171	1099	1097	1118	1100
65	916	955	980	959	891	884	898	886
70	705	740	758	744	681	667	675	667
75	496	528	538	532	475	455	459	451
80	307	332	339	336	283	263	261	257
85	142	162	168	165	112	97.0	91.3	89.7
90	31.2	37.1	42.5	38.5	2.98	3.28	3.46	3.24

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks: