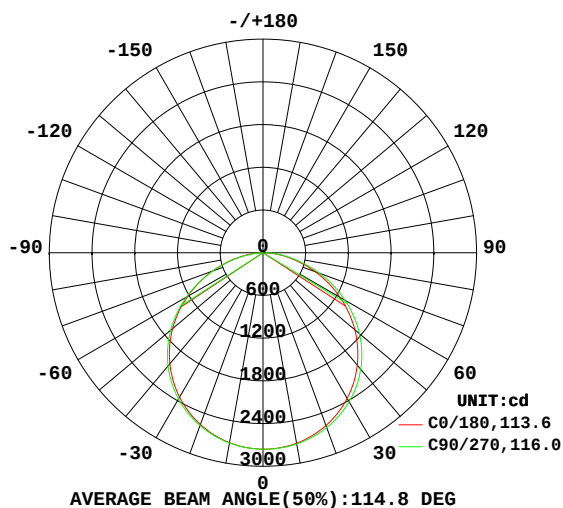


LUMINAIRE PHOTOMETRIC TEST REPORT

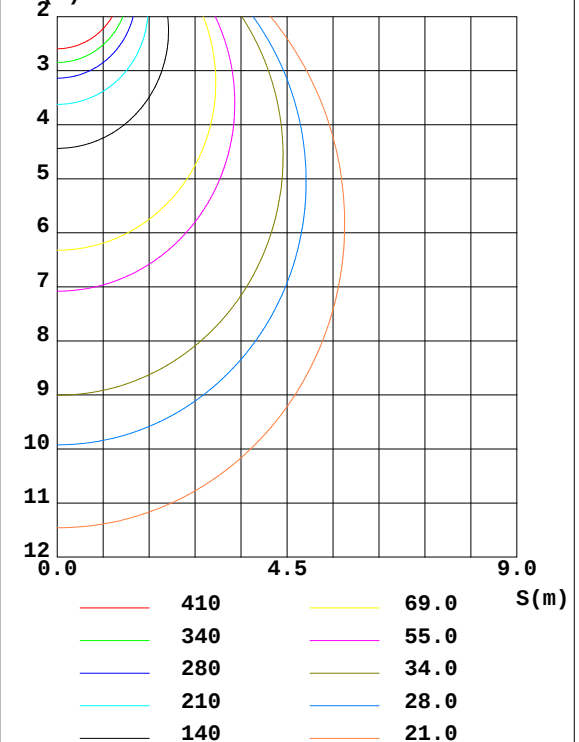
Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.67 lm/W			
MODEL	2835 4000K	I _{max} (cd)	2760	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)	8106.2	η UP, DN(C0-180)	0.0, 51.1
NOMINAL FLUX(lm)	8106.16	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



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 G0-2000B_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	2717	2726	2726	2723	2709	2707	2713	2711	0- 10	261.3	261.3	3.22, 3.22
20	2583	2606	2613	2600	2569	2569	2585	2574	10- 20	751.8	1013	12.5, 12.5
30	2363	2400	2418	2393	2343	2347	2373	2354	20- 30	1148	2161	26.7, 26.7
40	2061	2109	2137	2105	2035	2040	2075	2049	30- 40	1398	3560	43.9, 43.9
50	1684	1738	1770	1736	1656	1661	1693	1668	40- 50	1463	5023	62, 62
60	1247	1297	1327	1300	1219	1217	1239	1221	50- 60	1328	6351	78.3, 78.3
70	780.9	819.7	840.4	824.9	754.8	740.2	748.6	739.2	60- 70	1010	7361	90.8, 90.8
80	340.0	368.1	375.8	373.0	313.6	291.5	289.4	285.2	70- 80	579.3	7940	98, 98
90	34.68	40.56	47.11	42.85	3.268	3.650	3.847	3.594	80- 90	165.9	8106	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): 4295.6 lm

%lum = 53.0%

%lamp = 53.0%

Conical surface Flux(120deg): 6351 lm

%lum = 78.3%

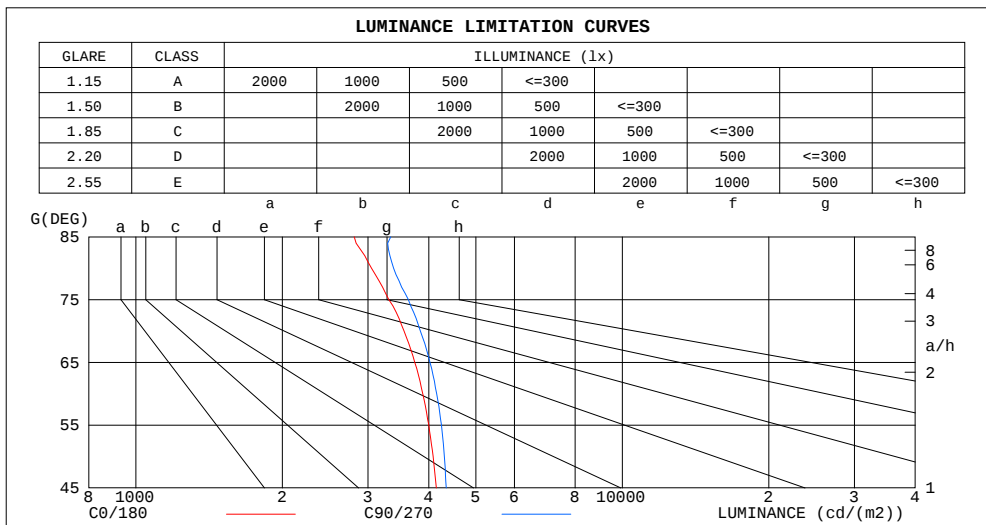
%lamp = 78.3%

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 G0-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 6.790m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 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	2810	3340
80	3052	3386
75	3310	3631
70	3558	3844
65	3743	4021
60	3887	4153
55	4000	4248
50	4083	4308
45	4146	4344

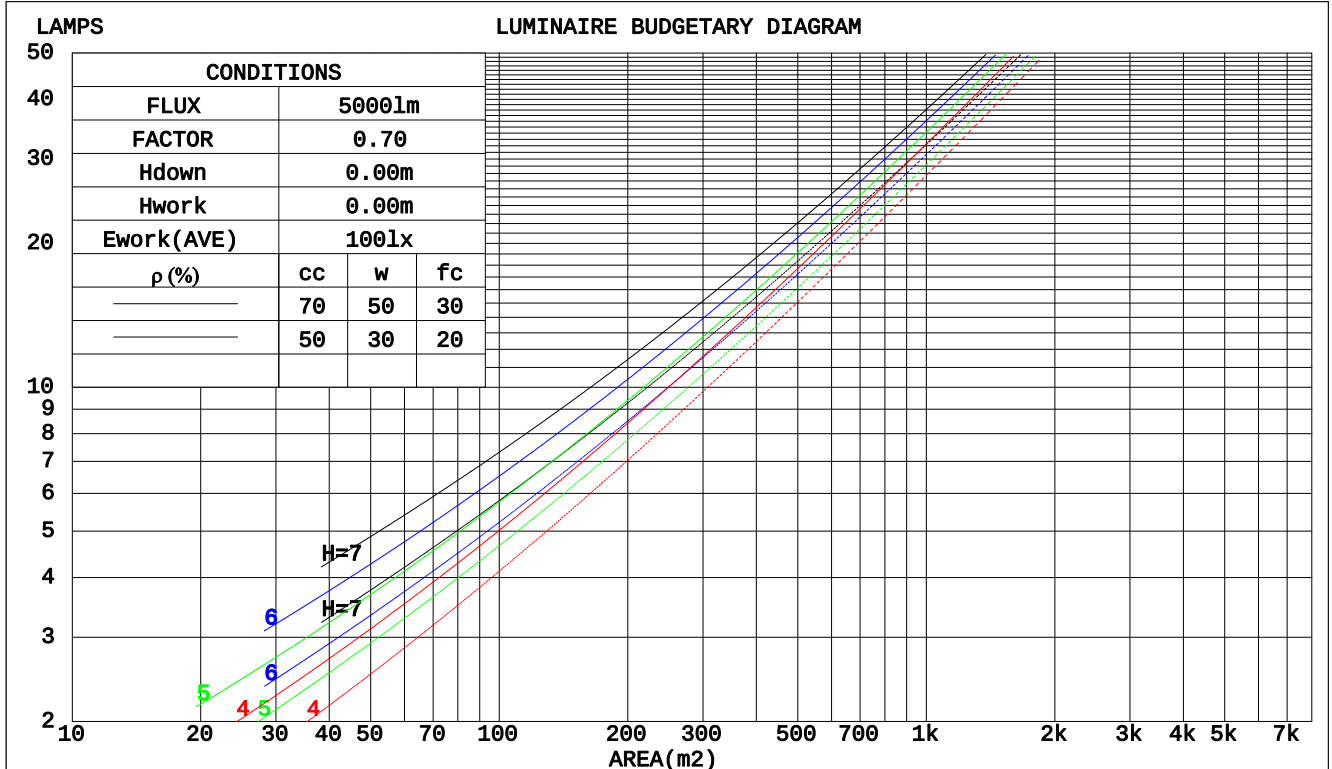
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 6.790m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	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	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 G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 lm					
NAME: LPB6012-WHTC72			TYPE:		WEIGHT:
SPEC.: white RA80 3000K+5700K			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.: 1.155*0.555		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						Wall Exitance Coefficients(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 G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 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	14.0	14.8	14.4	15.2	15.6	14.2	15.1	14.6	15.5	15.9
	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, 8106 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 7.3)
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 G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

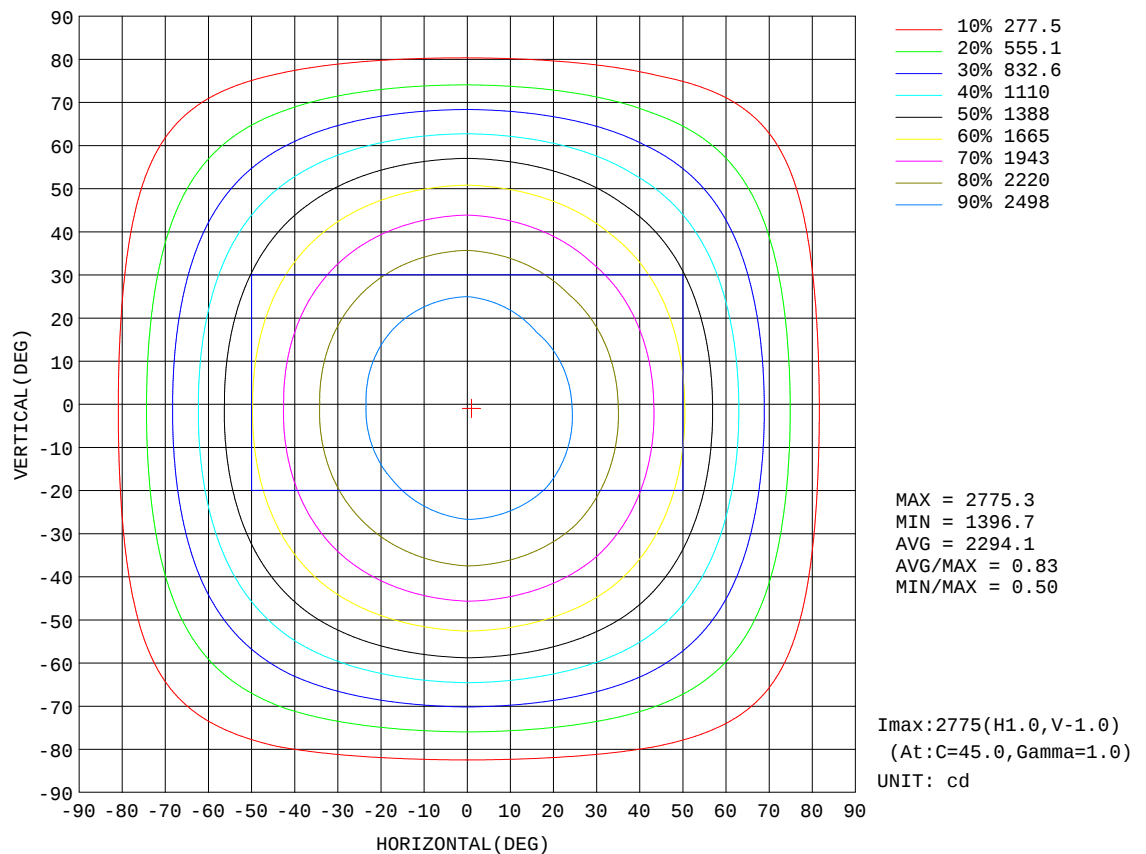
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	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 G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:



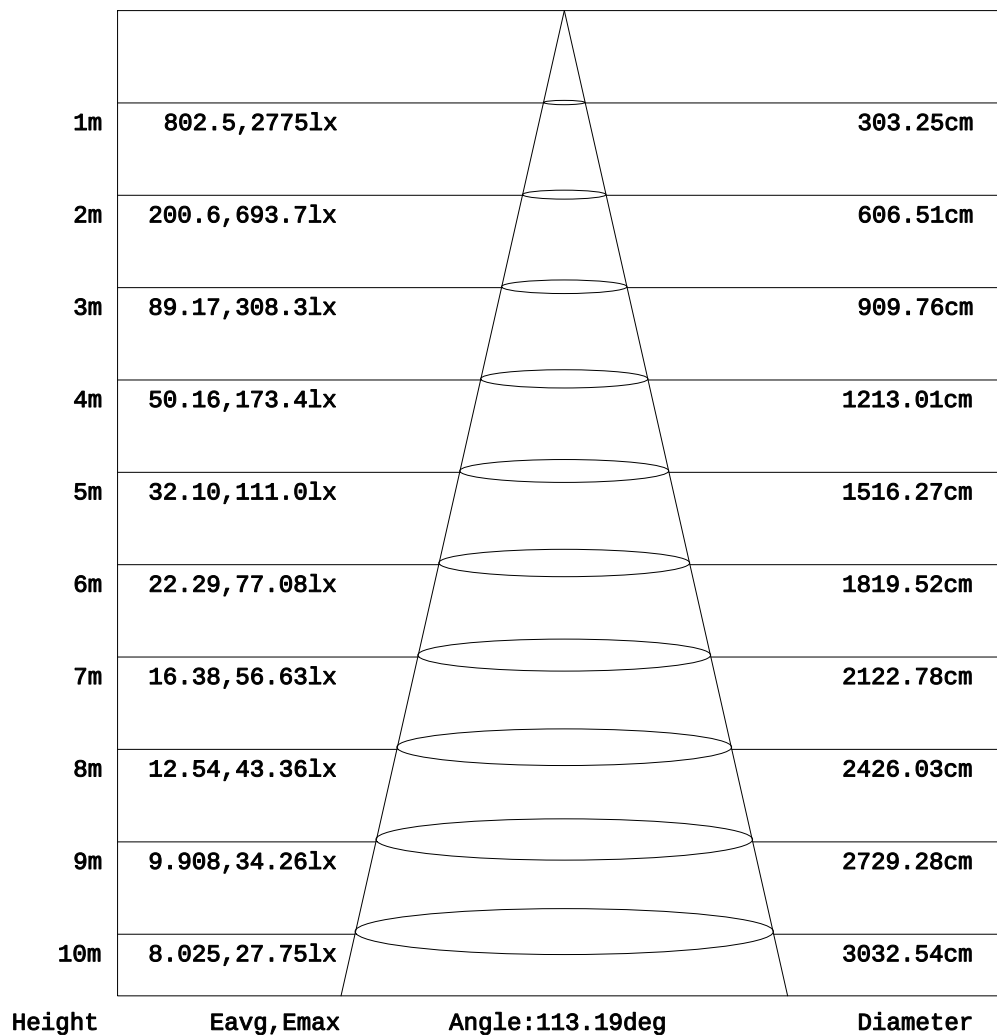
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2025-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 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:5978 lm



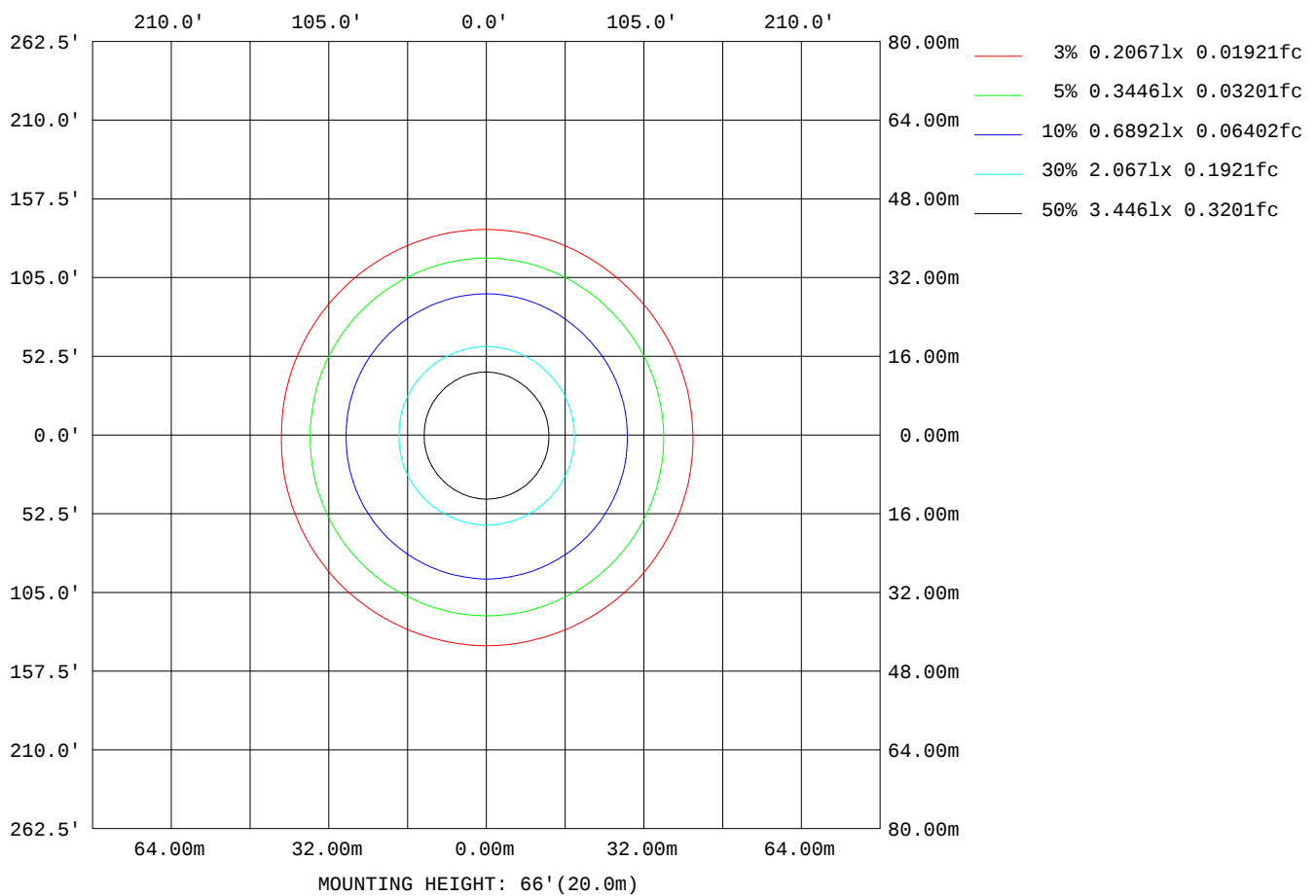
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 G0-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 6.790m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 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 G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.32V I:0.3355A P:71.947W PF:0.9777 Freq:49.99Hz Lamp Flux:8106.16x1 lm		
NAME: LPB6012-WHTC72	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.155*0.555	Shielding Angle:

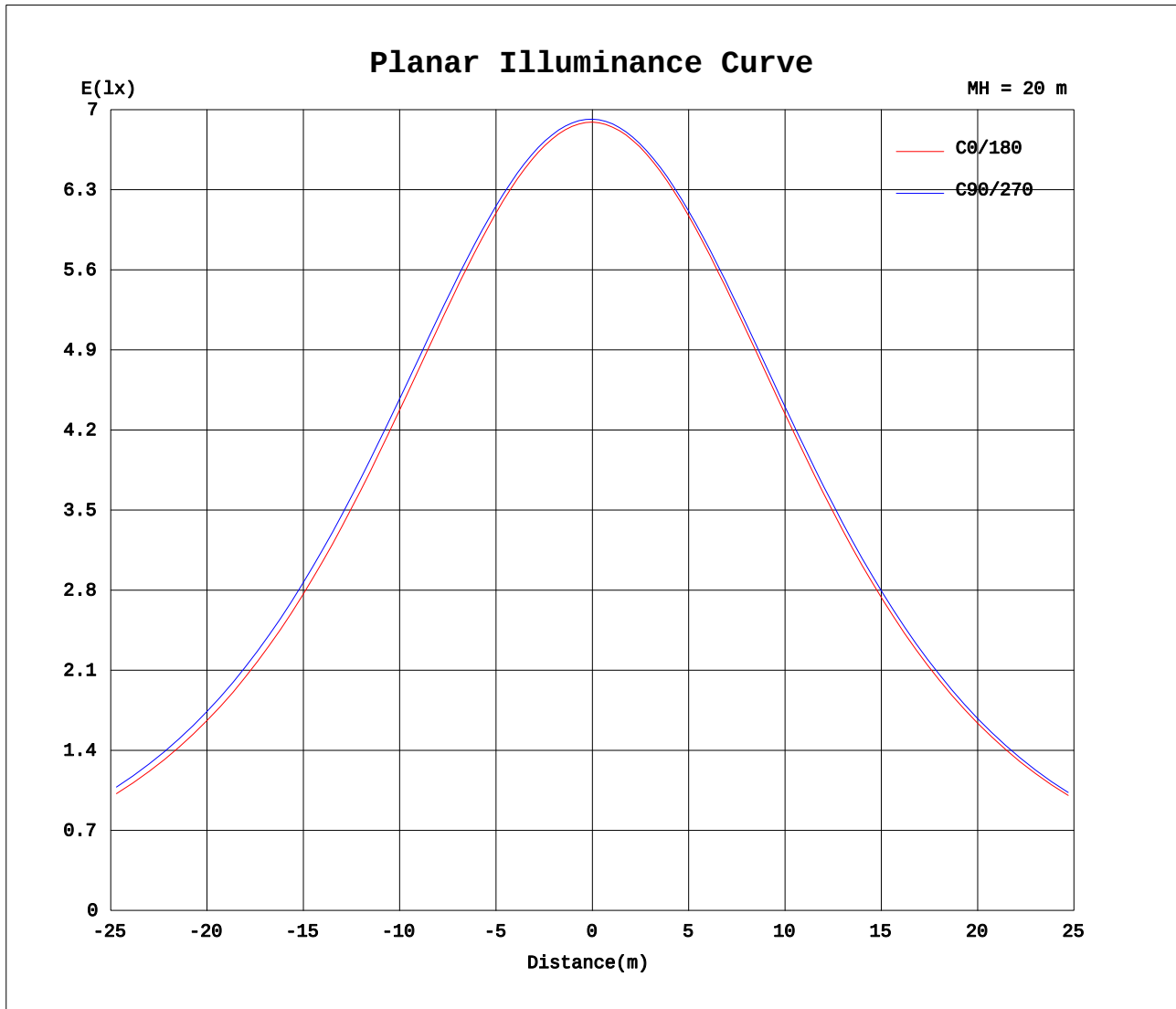
AvgL	cd/m2
L_0~180(65)av	3697
L_0~180(75)av	3245
L_0~180(85)av	2537
L_90~270(65)av	3842
L_90~270(75)av	3346
L_90~270(85)av	2576
L_45(65)av	3768
L_45(75)av	3284
L_45(85)av	2550

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 G0-2000B_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 G0-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 6.790m [K=1.0000]
Remarks:

```

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

```