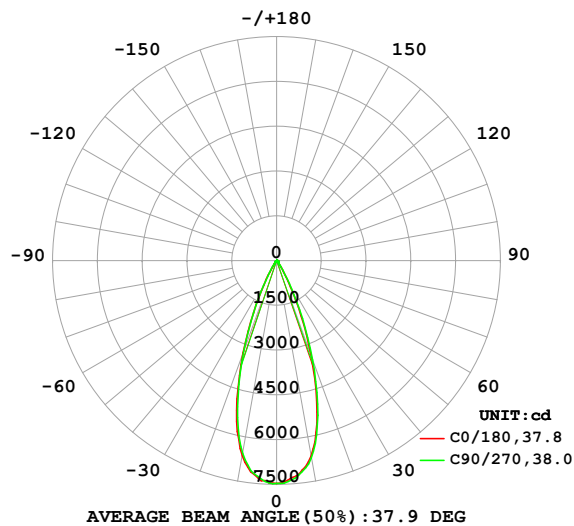


LUMINAIRE PHOTOMETRIC TEST REPORT

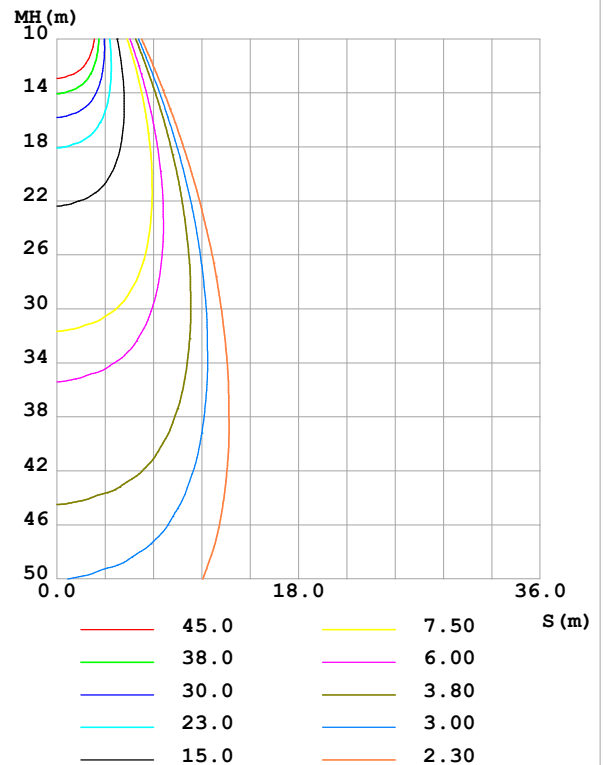
Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 135.03 lm/W			
MODEL	SH1814-0912J18W30H	I _{max} (cd)	7487	S/MH(C0/180)	0.59
NOMINAL POWER(W)	25	LOR(%)	86.5	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3179.7	η UP,DN(C0-180)	0.0,44.2
NOMINAL FLUX(lm)	3675.89	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,42.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down (%)	86.5	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28 °C
Operators: Li
Test Date: 2025-09-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 75%
Test Distance: 8.458m [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	6662	6622	6715	6747	6639	6583	6559	6627	0- 10	675.7	675.7	21.2,18.4
20	3389	3433	3529	3477	3295	3267	3247	3338	10- 20	1408	2084	65.5,56.7
30	644.4	671.1	717.3	642.9	579.7	612.8	620.9	637.2	20- 30	800.7	2885	90.7,78.5
40	96.94	100.6	116.2	96.36	90.50	100.5	93.01	99.70	30- 40	159.6	3044	95.7,82.8
50	58.39	59.42	63.21	59.50	58.33	60.34	58.05	59.63	40- 50	56.29	3100	97.5,84.3
60	39.87	41.05	41.18	40.71	38.98	38.04	38.61	38.62	50- 60	45.10	3146	98.9,85.6
70	14.94	15.27	15.34	14.86	14.24	14.08	14.05	14.32	60- 70	24.92	3170	99.7,86.2
80	2.623	2.774	2.606	2.533	2.133	1.865	1.974	2.089	70- 80	8.580	3179	100,86.5
90	0.3184	0.3150	0.3161	0.3217	0.2982	0.2998	0.3059	0.3013	80- 90	0.6237	3180	100,86.5
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): 3074.5 lm

%lum = 96.7%

%lamp = 83.6%

Conical surface Flux(130deg): 3161.1 lm

%lum = 99.4%

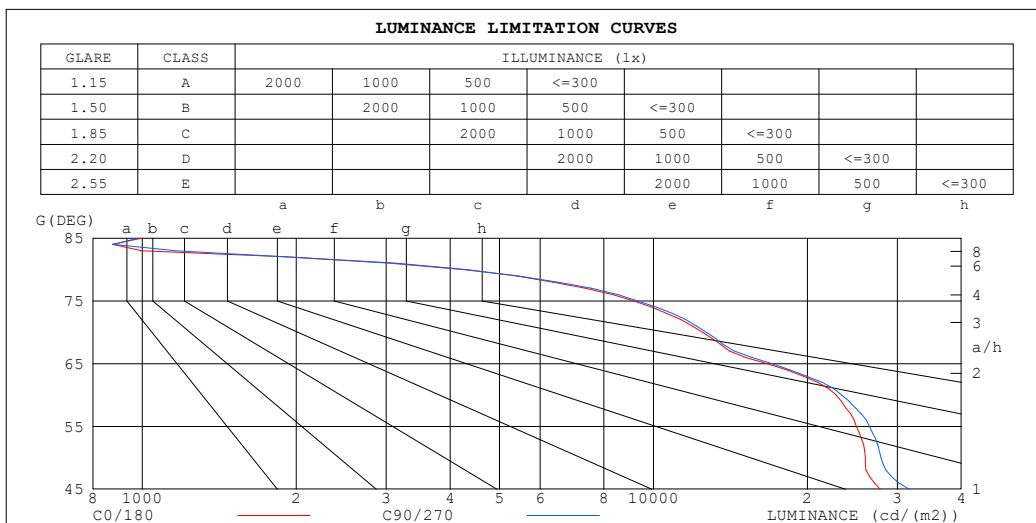
%lamp = 86.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	995	979
80	4317	4251
75	9152	9320
70	12478	12706
65	16699	17067
60	22786	23335
55	24954	26476
50	25956	27859
45	27745	31654

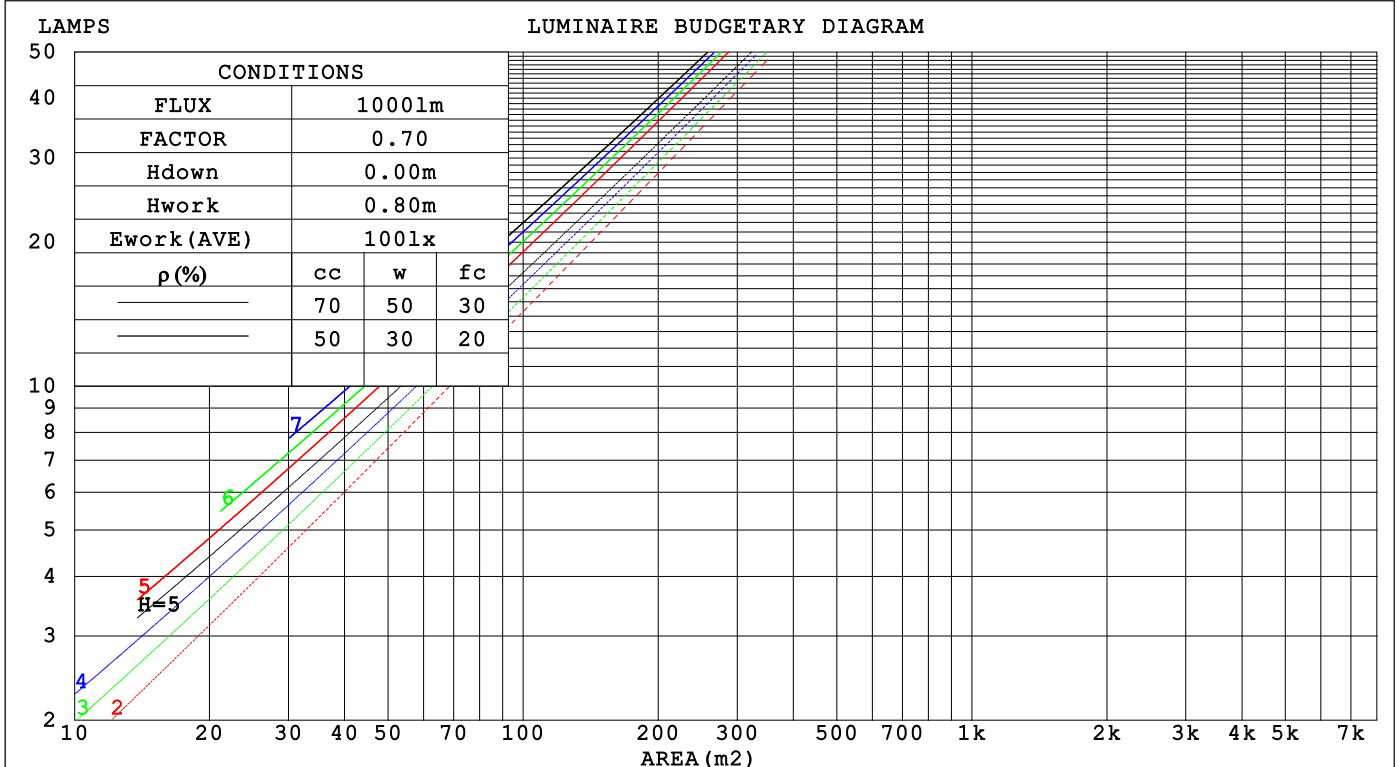
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-09-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:75%
Test Distance:8.458m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

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	1.03	1.03	1.03	1.01	1.01	1.01	.96	.96	.96	.92	.92	.92	.88	.88	.88	.87
1.0	.97	.95	.93	.95	.93	.92	.91	.90	.89	.88	.87	.86	.85	.85	.84	.82
2.0	.91	.88	.86	.90	.87	.85	.87	.85	.83	.85	.83	.81	.82	.81	.80	.78
3.0	.87	.83	.80	.85	.82	.79	.83	.80	.78	.81	.79	.77	.79	.77	.76	.75
4.0	.82	.78	.75	.81	.78	.75	.80	.76	.74	.78	.75	.73	.76	.74	.72	.71
5.0	.78	.74	.71	.78	.74	.71	.76	.73	.70	.75	.72	.70	.74	.71	.69	.68
6.0	.75	.71	.68	.74	.70	.68	.73	.70	.67	.72	.69	.67	.71	.68	.66	.65
7.0	.72	.68	.65	.71	.67	.64	.70	.67	.64	.69	.66	.64	.68	.66	.64	.63
8.0	.69	.65	.62	.69	.65	.62	.68	.64	.61	.67	.64	.61	.66	.63	.61	.60
9.0	.66	.62	.59	.66	.62	.59	.65	.62	.59	.64	.61	.59	.64	.61	.59	.58
10.0	.64	.60	.57	.63	.60	.57	.63	.59	.57	.62	.59	.57	.62	.59	.57	.56



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-09-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:75%
Test Distance:8.458m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

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	.134	.076	.024	.129	.073	.023	.118	.068	.022	.108	.062	.020	.099	.057	.018	
2.0	.126	.069	.021	.121	.067	.021	.113	.063	.019	.104	.058	.018	.097	.055	.017	
3.0	.119	.063	.019	.115	.061	.018	.107	.058	.018	.100	.055	.017	.094	.052	.016	
4.0	.112	.058	.017	.108	.057	.017	.102	.054	.016	.096	.052	.016	.090	.049	.015	
5.0	.106	.054	.016	.103	.053	.015	.097	.051	.015	.092	.049	.014	.087	.047	.014	
6.0	.101	.050	.014	.098	.049	.014	.093	.048	.014	.089	.046	.014	.084	.044	.013	
7.0	.096	.047	.013	.094	.047	.013	.089	.045	.013	.085	.044	.013	.082	.042	.012	
8.0	.091	.045	.013	.089	.044	.012	.086	.043	.012	.082	.042	.012	.079	.041	.012	
9.0	.088	.042	.012	.086	.042	.012	.082	.041	.012	.079	.040	.011	.076	.039	.011	
10.0	.084	.040	.011	.082	.040	.011	.079	.039	.011	.077	.038	.011	.074	.037	.011	

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	.165	.165	.165	.141	.141	.141	.096	.096	.096	.055	.055	.055	.018	.018	.018	
1.0	.147	.136	.127	.126	.117	.109	.086	.080	.075	.049	.047	.044	.016	.015	.014	
2.0	.132	.115	.100	.113	.099	.086	.078	.068	.060	.045	.040	.035	.014	.013	.012	
3.0	.120	.098	.081	.103	.085	.070	.071	.059	.049	.041	.034	.029	.013	.011	.009	
4.0	.110	.085	.066	.095	.073	.057	.065	.051	.040	.038	.030	.024	.012	.010	.008	
5.0	.102	.075	.055	.087	.065	.048	.060	.045	.034	.035	.026	.020	.011	.009	.007	
6.0	.095	.066	.046	.081	.057	.040	.056	.040	.028	.033	.024	.017	.010	.008	.006	
7.0	.088	.059	.039	.076	.051	.034	.053	.036	.024	.031	.021	.014	.010	.007	.005	
8.0	.083	.054	.034	.071	.047	.029	.049	.033	.021	.029	.019	.012	.009	.006	.004	
9.0	.078	.049	.029	.067	.043	.026	.047	.030	.018	.027	.018	.011	.009	.006	.004	
10.0	.074	.045	.026	.064	.039	.022	.044	.028	.016	.026	.016	.009	.008	.005	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm										
NAME: T1283A-36D-3090										
SPEC.: KGP 26W/650mA										
MFR.: SOTEN										
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	16.9	17.7	17.1	17.9	18.0	17.4	18.1	17.6	18.3	18.4
3H	17.3	18.0	17.6	18.2	18.4	17.7	18.4	18.0	18.6	18.8
4H	17.4	18.1	17.7	18.3	18.5	17.8	18.5	18.1	18.7	18.9
6H	17.4	18.0	17.7	18.3	18.5	17.8	18.4	18.1	18.7	18.9
8H	17.4	18.0	17.7	18.2	18.5	17.7	18.4	18.0	18.6	18.9
12H	17.3	17.9	17.6	18.2	18.4	17.7	18.3	18.0	18.5	18.8
4H 2H	17.2	17.8	17.4	18.1	18.3	17.5	18.2	17.8	18.4	18.7
3H	17.7	18.3	18.0	18.5	18.8	18.0	18.6	18.3	18.9	19.1
4H	17.8	18.3	18.1	18.6	18.9	18.1	18.7	18.5	19.0	19.3
6H	17.8	18.3	18.2	18.6	19.0	18.1	18.6	18.5	18.9	19.3
8H	17.8	18.2	18.1	18.6	18.9	18.1	18.5	18.5	18.9	19.2
12H	17.7	18.1	18.1	18.5	18.9	18.0	18.4	18.4	18.8	19.2
8H 4H	17.8	18.2	18.2	18.6	18.9	18.1	18.5	18.5	18.9	19.2
6H	17.8	18.2	18.2	18.5	19.0	18.1	18.4	18.5	18.8	19.3
8H	17.7	18.1	18.2	18.5	18.9	18.0	18.4	18.5	18.8	19.2
12H	17.7	18.0	18.1	18.4	18.9	18.0	18.3	18.4	18.7	19.2
12H 4H	17.7	18.1	18.1	18.5	18.9	18.0	18.4	18.4	18.8	19.2
6H	17.7	18.1	18.2	18.5	18.9	18.0	18.4	18.5	18.8	19.2
8H	17.7	18.0	18.2	18.4	18.9	18.0	18.3	18.4	18.7	19.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.7					+ 0.9 / - 0.8				
1.5H	+ 1.2 / - 0.8					+ 1.6 / - 1.1				
2.0H	+ 0.5 / - 0.7					+ 0.6 / - 0.8				

CIE Pub.117, 3676 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.5$)
 Area: 0.003524 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

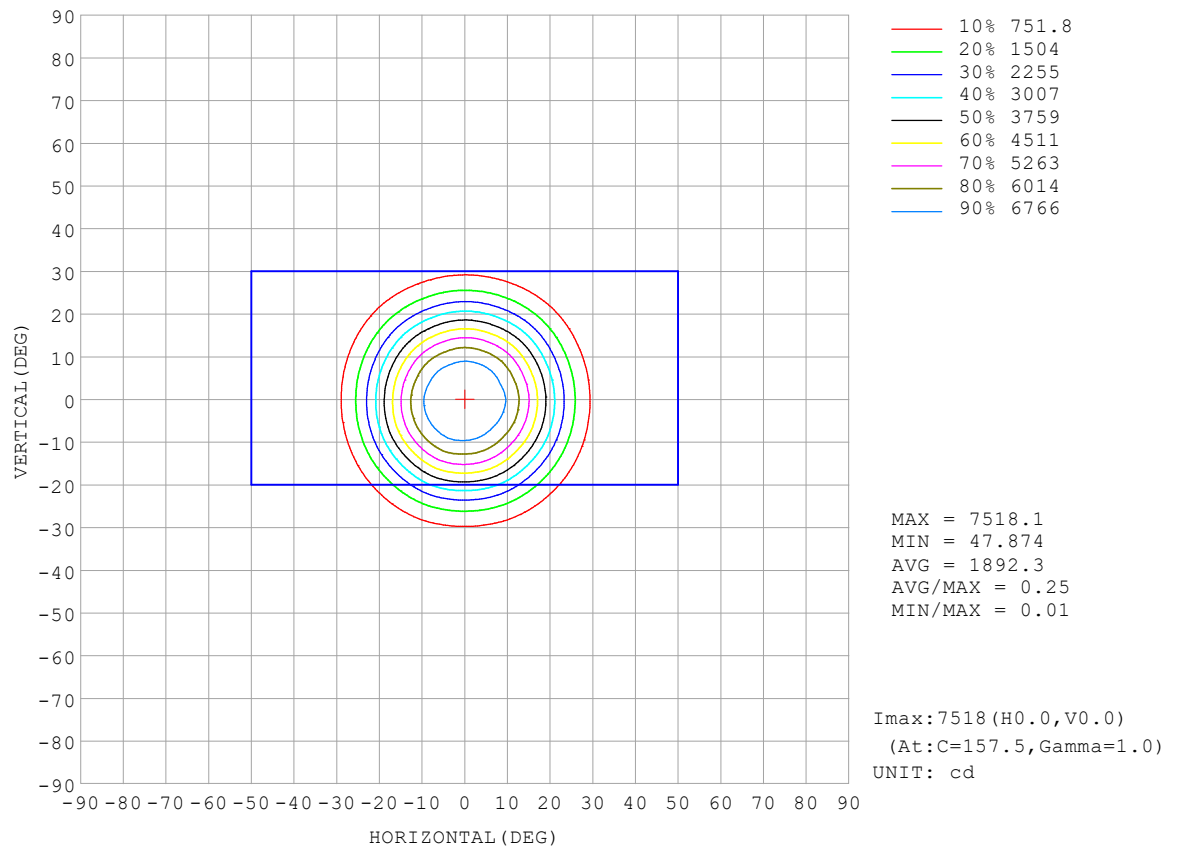
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	72	69	76	72	68	76	71	68	65
0.80	83	78	75	83	78	75	82	77	75	72
1.00	87	82	79	86	82	79	85	81	78	75
1.25	90	86	83	89	85	82	87	84	82	78
1.50	92	88	85	91	88	85	89	86	84	80
2.00	94	91	88	93	90	87	91	88	86	82
2.50	96	93	90	94	91	89	92	89	88	83
3.00	97	94	92	95	93	91	93	91	89	84
4.00	99	96	95	97	95	93	94	92	91	85
5.00	100	98	96	98	96	95	95	93	92	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

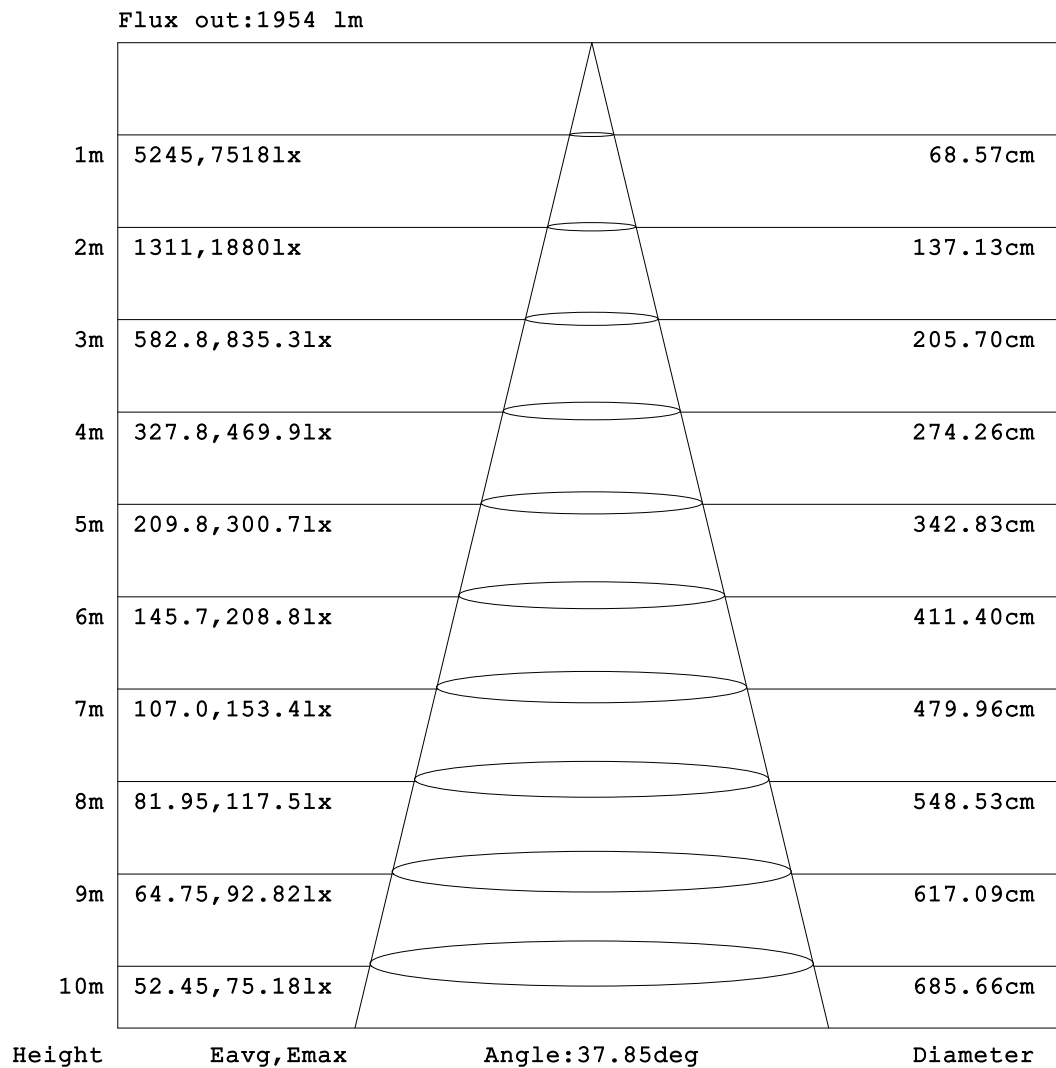


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

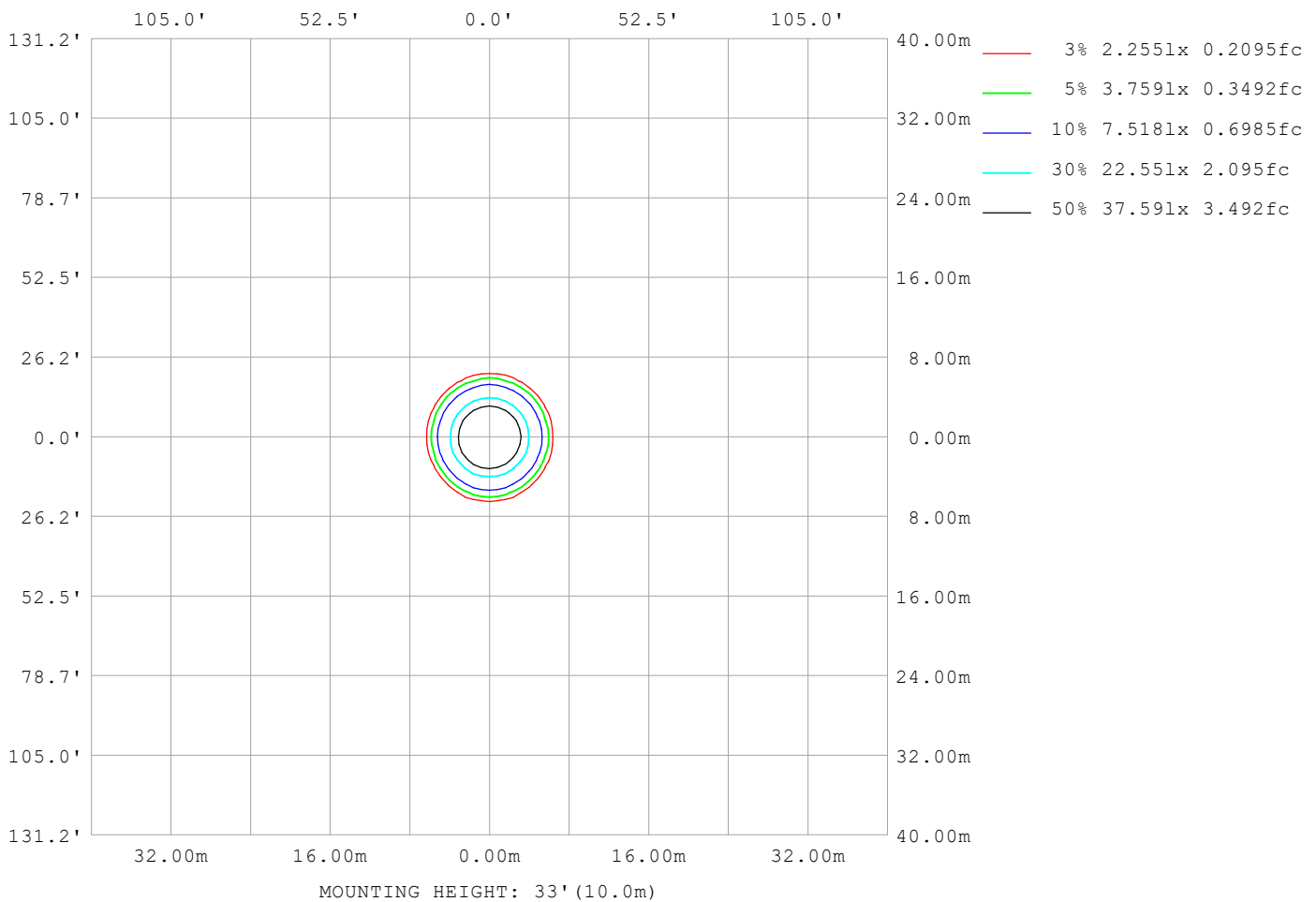


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test: U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.15V I:0.107A P:23.55W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3675.89x1 lm		
NAME: T1283A-36D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

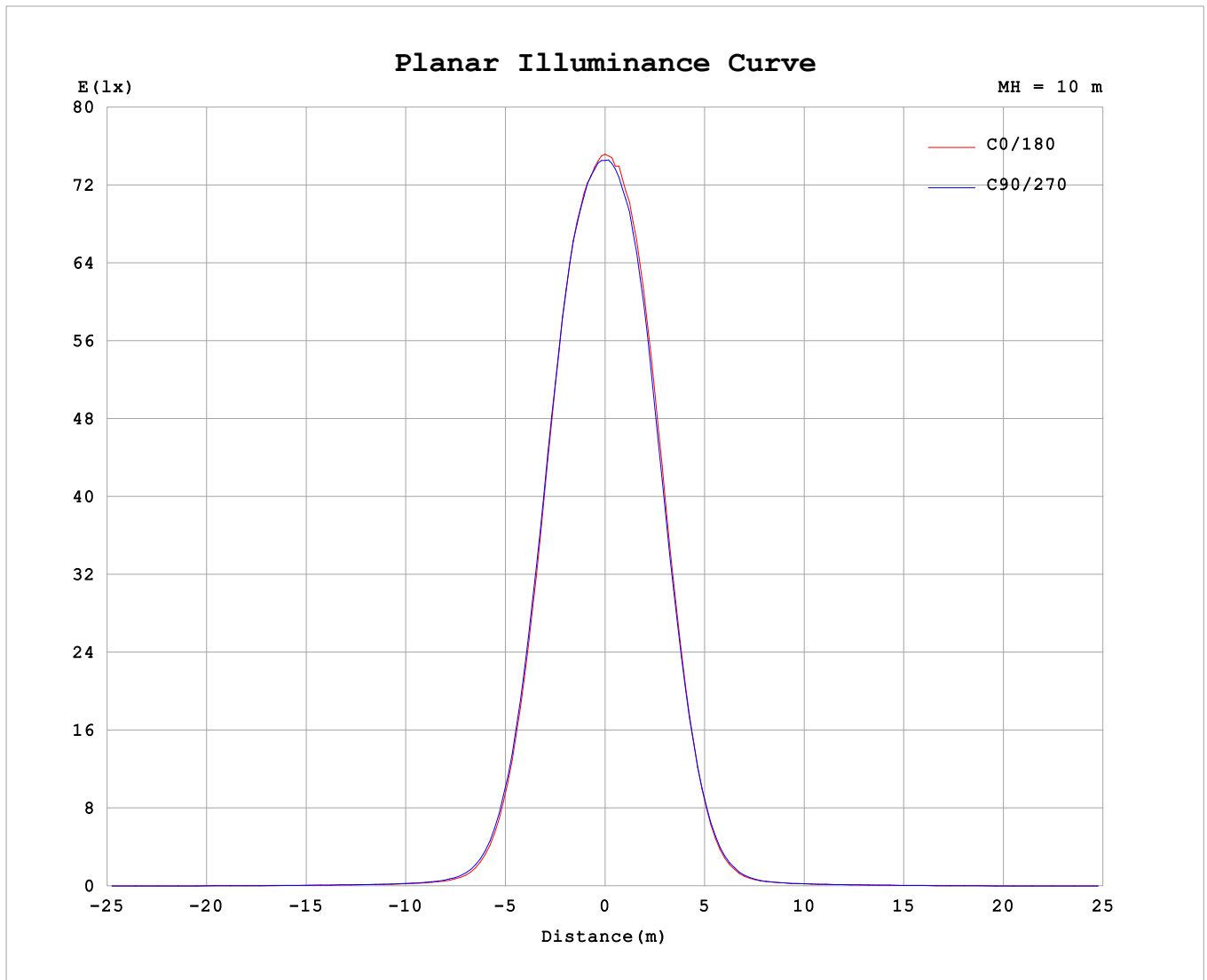
AvgL	cd/m2
L_0~180 (65) av	16011
L_0~180 (75) av	8743
L_0~180 (85) av	963
L_90~270 (65) av	16105
L_90~270 (75) av	8724
L_90~270 (85) av	971
L_45 (65) av	16060
L_45 (75) av	8744
L_45 (85) av	933

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28°C
Operators: Li
Test Date: 2025-09-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 75%
Test Distance: 8.458m [K=1.0000]
Remarks:

```

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