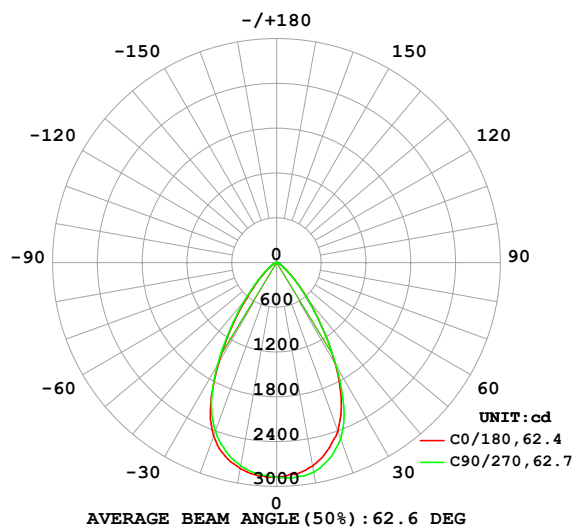


LUMINAIRE PHOTOMETRIC TEST REPORT

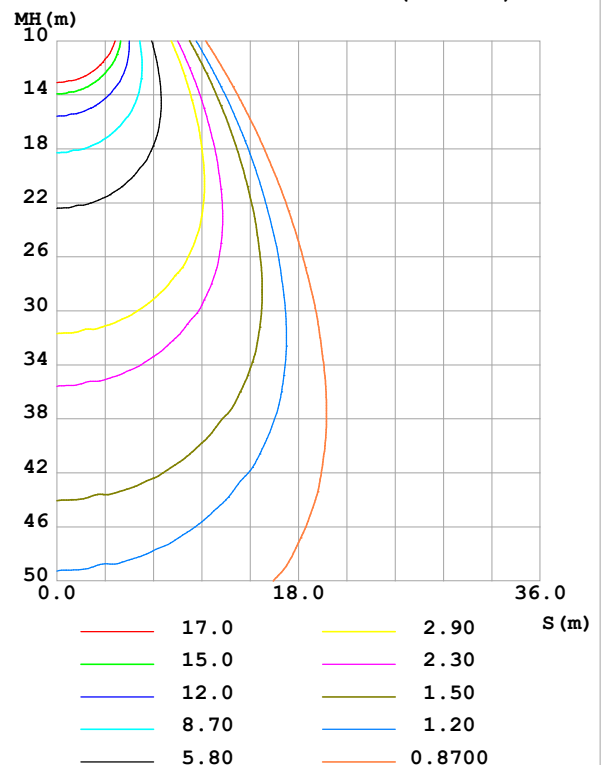
Test:U:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.30 lm/W			
MODEL	SH1814-0912J18W30H	I _{max} (cd)	2895	S/MH(C0/180)	0.93
NOMINAL POWER(W)	25	LOR(%)	83.2	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3126.4	η UP,DN(C0-180)	0.0,41.8
NOMINAL FLUX(lm)	3756.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,41.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	83.2	CIBSE SHR MAX	0.95

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: 2025-09-27

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	2772	2807	2851	2853	2805	2786	2768	2745	0- 10	271.1	271.1	8.67, 7.21
20	2400	2467	2510	2495	2471	2427	2403	2379	10- 20	745.3	1016	32.5, 27.1
30	1578	1587	1597	1579	1556	1581	1590	1563	20- 30	941.4	1958	62.6, 52.1
40	678.7	661.8	661.4	642.5	633.2	651.5	681.2	692.7	30- 40	673.1	2631	84.1, 70
50	227.8	213.0	218.0	215.3	211.4	214.1	230.8	241.7	40- 50	309.3	2940	94, 78.3
60	74.68	70.97	71.39	72.38	71.48	73.99	77.00	78.79	50- 60	119.5	3060	97.9, 81.4
70	30.17	28.93	28.70	29.18	28.90	29.64	30.82	31.17	60- 70	47.08	3107	99.4, 82.7
80	5.336	4.577	4.056	4.524	4.495	5.075	5.602	5.603	70- 80	18.65	3125	100, 83.2
90	0.5677	0.5731	0.5972	0.6093	0.5426	0.5173	0.5104	0.5120	80- 90	1.044	3126	100, 83.2
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): 2820.7 lm

%lum = 90.2%

%lamp = 75.1%

Conical surface Flux(130deg): 3087.9 lm

%lum = 98.8%

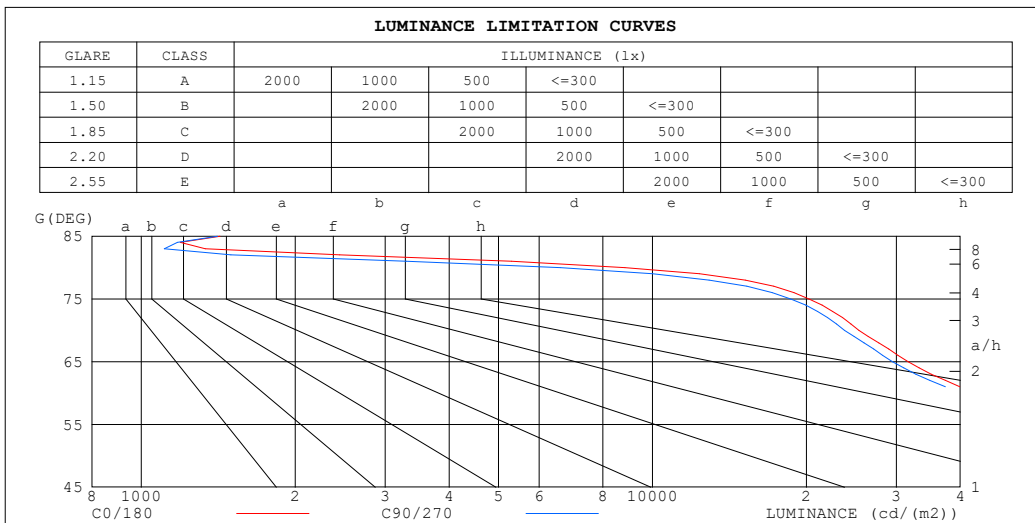
%lamp = 82.2%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1425	1409
80	8834	6609
75	20226	18630
70	25361	23747
65	31627	29466
60	42938	40402
55	65198	62052
50	101881	95977
45	161996	153036

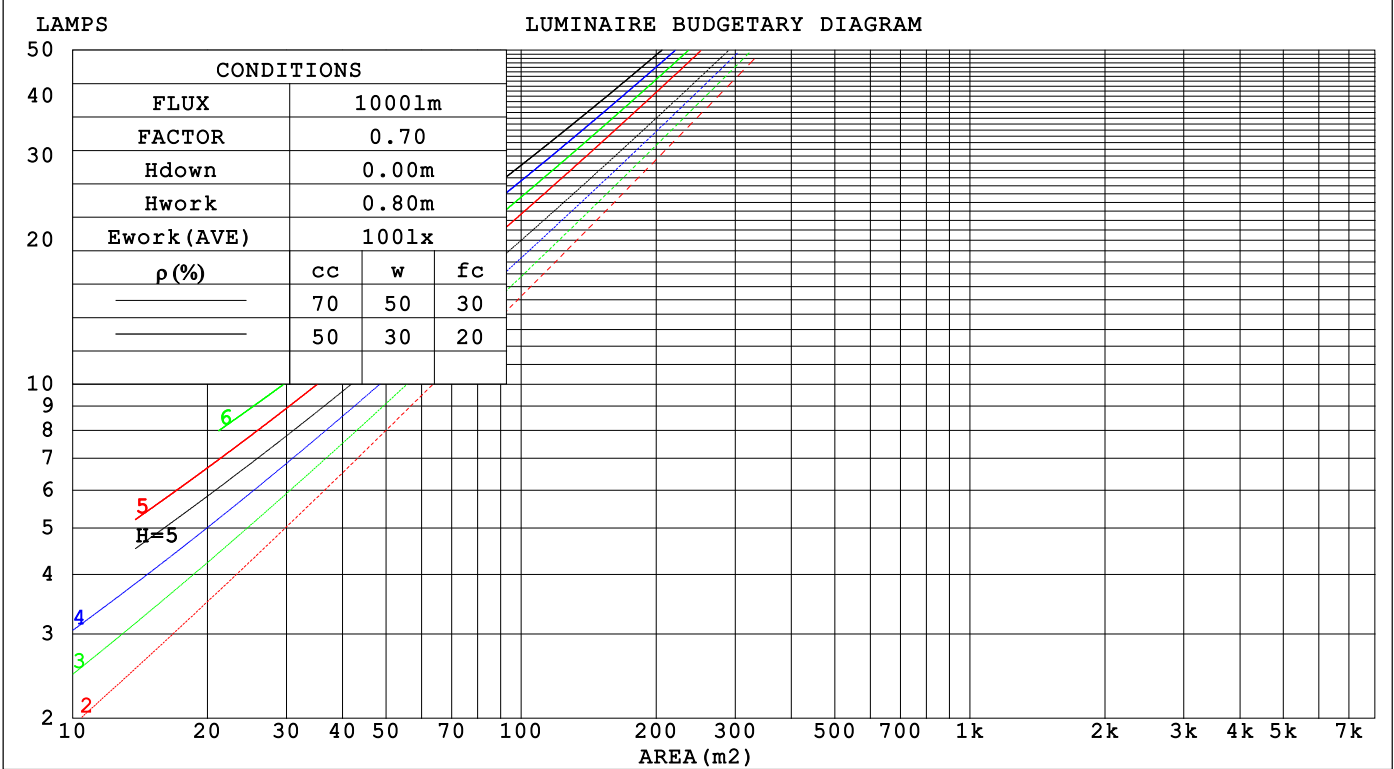
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-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 Coefficients of Utilization(CU)															
0.0	.99	.99	.99	.97	.97	.97	.92	.92	.92	.89	.89	.89	.85	.85	.85	.83
1.0	.91	.89	.87	.90	.88	.86	.86	.85	.83	.83	.82	.81	.80	.79	.78	.77
2.0	.84	.81	.78	.83	.80	.77	.80	.77	.75	.78	.75	.73	.75	.73	.72	.70
3.0	.78	.73	.70	.77	.73	.69	.74	.71	.68	.72	.69	.67	.71	.68	.66	.65
4.0	.72	.67	.63	.71	.67	.63	.69	.65	.62	.68	.64	.61	.66	.63	.61	.59
5.0	.67	.62	.58	.66	.61	.58	.65	.60	.57	.63	.59	.57	.62	.59	.56	.55
6.0	.62	.57	.53	.62	.57	.53	.60	.56	.53	.59	.55	.52	.58	.55	.52	.51
7.0	.58	.53	.49	.58	.53	.49	.57	.52	.49	.56	.52	.48	.55	.51	.48	.47
8.0	.55	.49	.46	.54	.49	.45	.53	.49	.45	.52	.48	.45	.51	.48	.45	.44
9.0	.51	.46	.42	.51	.46	.42	.50	.45	.42	.49	.45	.42	.49	.45	.42	.41
10.0	.48	.43	.40	.48	.43	.40	.47	.43	.39	.47	.42	.39	.46	.42	.39	.38



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-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	.161	.092	.029	.156	.089	.028	.145	.083	.027	.135	.078	.025	.127	.073	.024															
2.0	.156	.085	.026	.151	.083	.026	.142	.079	.025	.134	.075	.023	.126	.071	.023															
3.0	.149	.079	.024	.145	.077	.023	.137	.074	.023	.130	.071	.022	.123	.068	.021															
4.0	.141	.074	.022	.138	.072	.021	.131	.070	.021	.125	.067	.020	.119	.065	.020															
5.0	.135	.069	.020	.131	.067	.020	.126	.065	.019	.120	.063	.019	.115	.061	.018															
6.0	.128	.064	.018	.125	.063	.018	.120	.062	.018	.115	.060	.018	.111	.058	.017															
7.0	.122	.060	.017	.120	.060	.017	.115	.058	.017	.111	.057	.017	.107	.055	.016															
8.0	.116	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016	.103	.053	.015															
9.0	.111	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.015	.099	.050	.014															
10.0	.106	.051	.014	.105	.050	.014	.101	.050	.014	.098	.049	.014	.095	.048	.014															

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	.159	.159	.159	.135	.135	.135	.092	.092	.092	.053	.053	.053	.017	.017	.017	
1.0	.143	.131	.119	.123	.112	.103	.084	.077	.071	.048	.045	.041	.015	.014	.013	
2.0	.132	.110	.092	.113	.095	.080	.077	.066	.056	.045	.038	.033	.014	.012	.011	
3.0	.122	.095	.073	.105	.082	.063	.072	.057	.044	.042	.033	.026	.013	.011	.009	
4.0	.114	.083	.058	.098	.071	.051	.067	.050	.036	.039	.029	.021	.013	.009	.007	
5.0	.107	.073	.048	.092	.063	.042	.064	.044	.029	.037	.026	.017	.012	.008	.006	
6.0	.102	.066	.040	.087	.057	.035	.060	.040	.024	.035	.023	.015	.011	.008	.005	
7.0	.096	.059	.034	.083	.051	.029	.057	.036	.021	.033	.021	.012	.011	.007	.004	
8.0	.092	.054	.029	.079	.047	.025	.055	.033	.018	.032	.020	.011	.010	.006	.004	
9.0	.087	.050	.025	.075	.043	.022	.052	.031	.015	.030	.018	.009	.010	.006	.003	
10.0	.083	.046	.022	.072	.040	.019	.050	.028	.014	.029	.017	.008	.009	.006	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm										
NAME: T1283A-60D-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	26.1	27.2	26.3	27.3	27.5	26.0	27.0	26.2	27.2	27.4
3H	26.1	27.0	26.4	27.3	27.5	26.0	26.9	26.2	27.1	27.3
4H	26.1	27.0	26.3	27.2	27.4	25.9	26.8	26.2	27.1	27.3
6H	26.0	26.8	26.3	27.1	27.3	25.9	26.7	26.2	27.0	27.2
8H	26.0	26.8	26.3	27.0	27.3	25.8	26.6	26.1	26.9	27.2
12H	25.9	26.7	26.2	27.0	27.2	25.8	26.5	26.1	26.8	27.1
4H 2H	26.0	26.9	26.2	27.1	27.3	25.8	26.8	26.1	27.0	27.2
3H	26.0	26.8	26.3	27.0	27.3	25.9	26.7	26.2	26.9	27.2
4H	26.0	26.7	26.3	27.0	27.3	25.9	26.6	26.2	26.9	27.2
6H	25.9	26.6	26.3	26.9	27.3	25.8	26.4	26.2	26.8	27.1
8H	25.9	26.5	26.3	26.8	27.2	25.8	26.3	26.2	26.7	27.1
12H	25.8	26.4	26.3	26.7	27.1	25.7	26.2	26.1	26.6	27.0
8H 4H	25.9	26.5	26.3	26.8	27.2	25.8	26.3	26.2	26.7	27.1
6H	25.9	26.3	26.3	26.7	27.1	25.7	26.2	26.1	26.6	27.0
8H	25.8	26.2	26.3	26.6	27.1	25.7	26.1	26.1	26.5	26.9
12H	25.8	26.1	26.2	26.5	27.0	25.6	26.0	26.1	26.4	26.9
12H 4H	25.9	26.4	26.3	26.7	27.1	25.7	26.2	26.1	26.6	27.0
6H	25.8	26.2	26.3	26.6	27.1	25.7	26.1	26.1	26.5	26.9
8H	25.8	26.1	26.2	26.6	27.0	25.6	26.0	26.1	26.4	26.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.1 / - 4.1					+ 2.1 / - 4.3				
1.5H	+ 3.3 / - 3.4					+ 3.3 / - 3.4				
2.0H	+ 4.2 / - 3.6					+ 4.0 / - 3.6				

CIE Pub.117, 3757 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.6$)
 Area: 0.003524 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

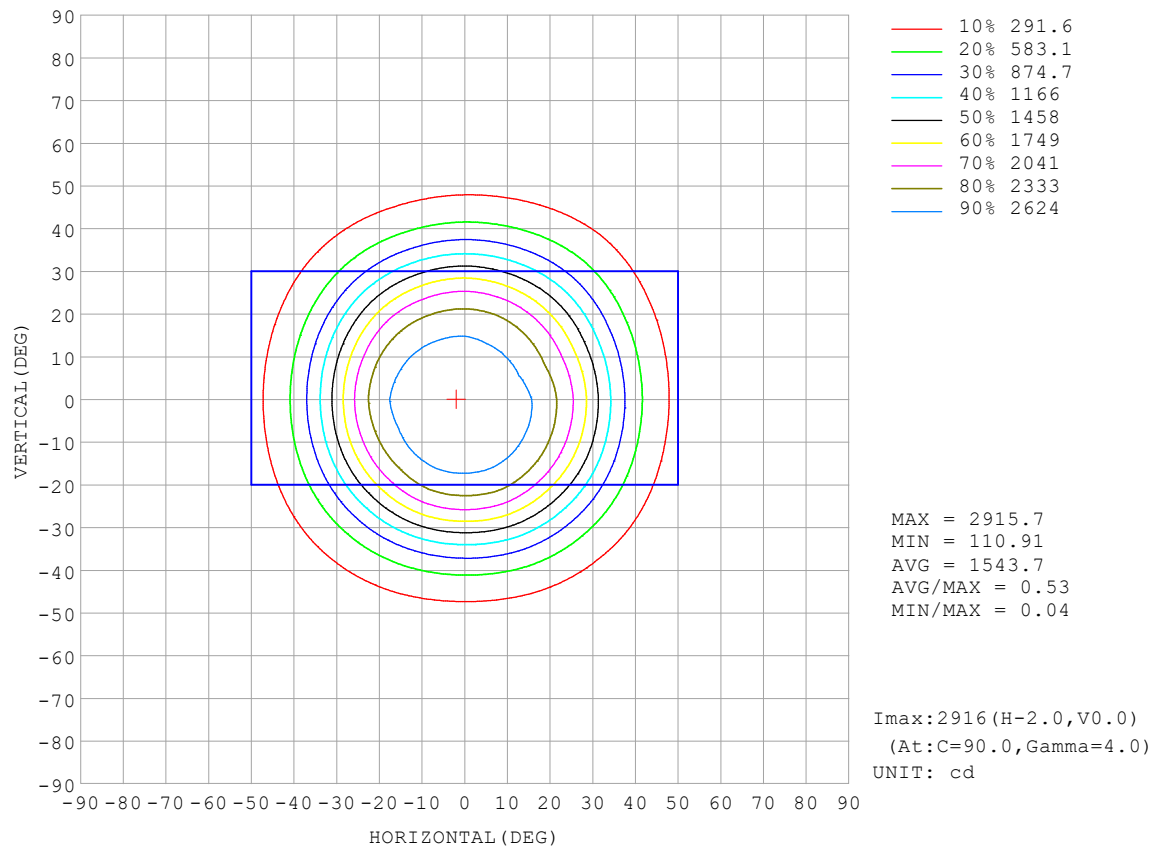
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	62	58	67	62	58	67	61	58	54
0.80	75	69	65	74	69	65	73	68	65	61
1.00	79	74	70	79	74	70	77	74	70	66
1.25	83	78	75	82	78	75	81	77	74	70
1.50	86	81	78	85	81	78	83	79	77	73
2.00	89	85	82	88	84	81	85	82	80	75
2.50	90	87	84	89	86	83	86	84	82	76
3.00	92	89	86	90	88	85	88	85	83	78
4.00	94	91	89	92	90	88	89	87	86	80
5.00	95	93	91	93	91	90	90	88	87	81
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: 2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

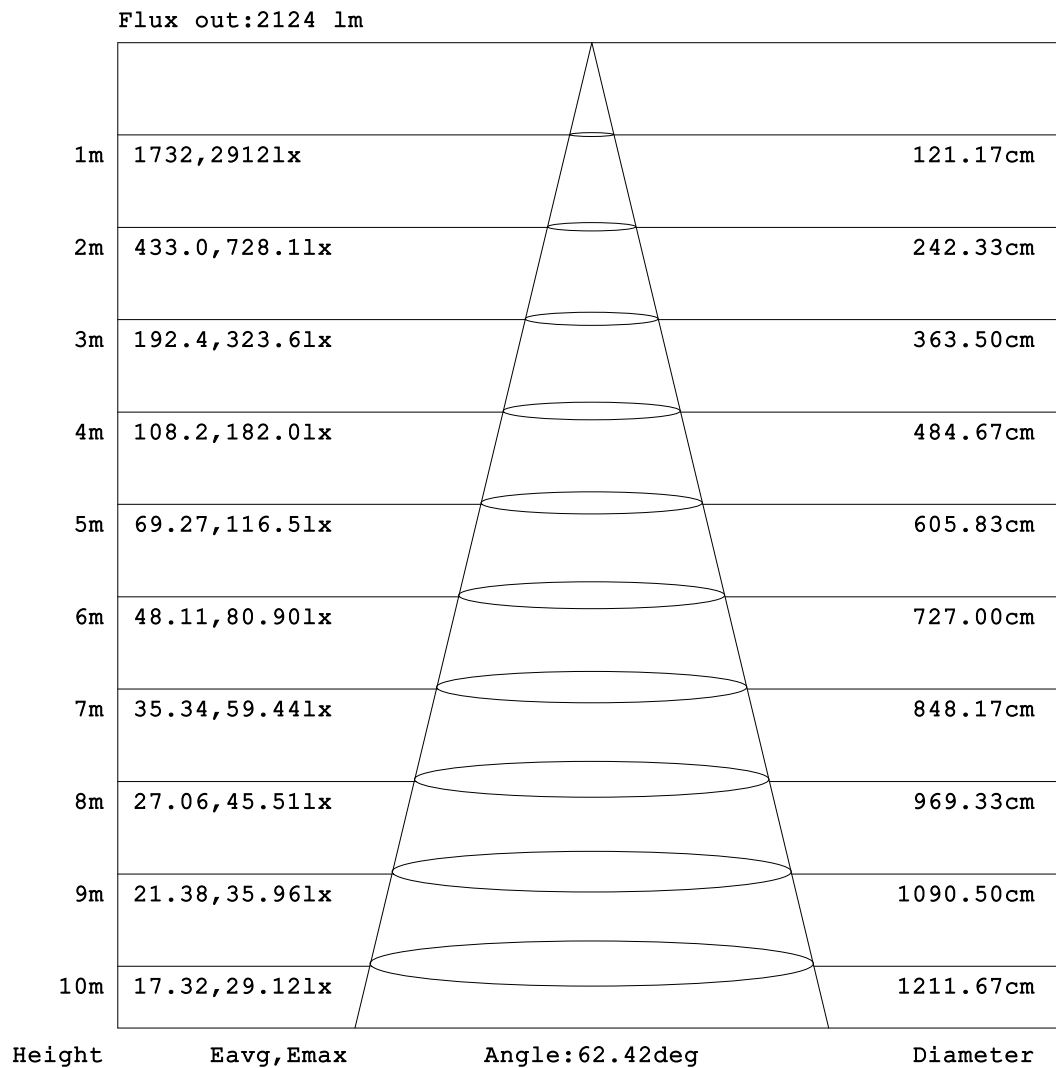


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		



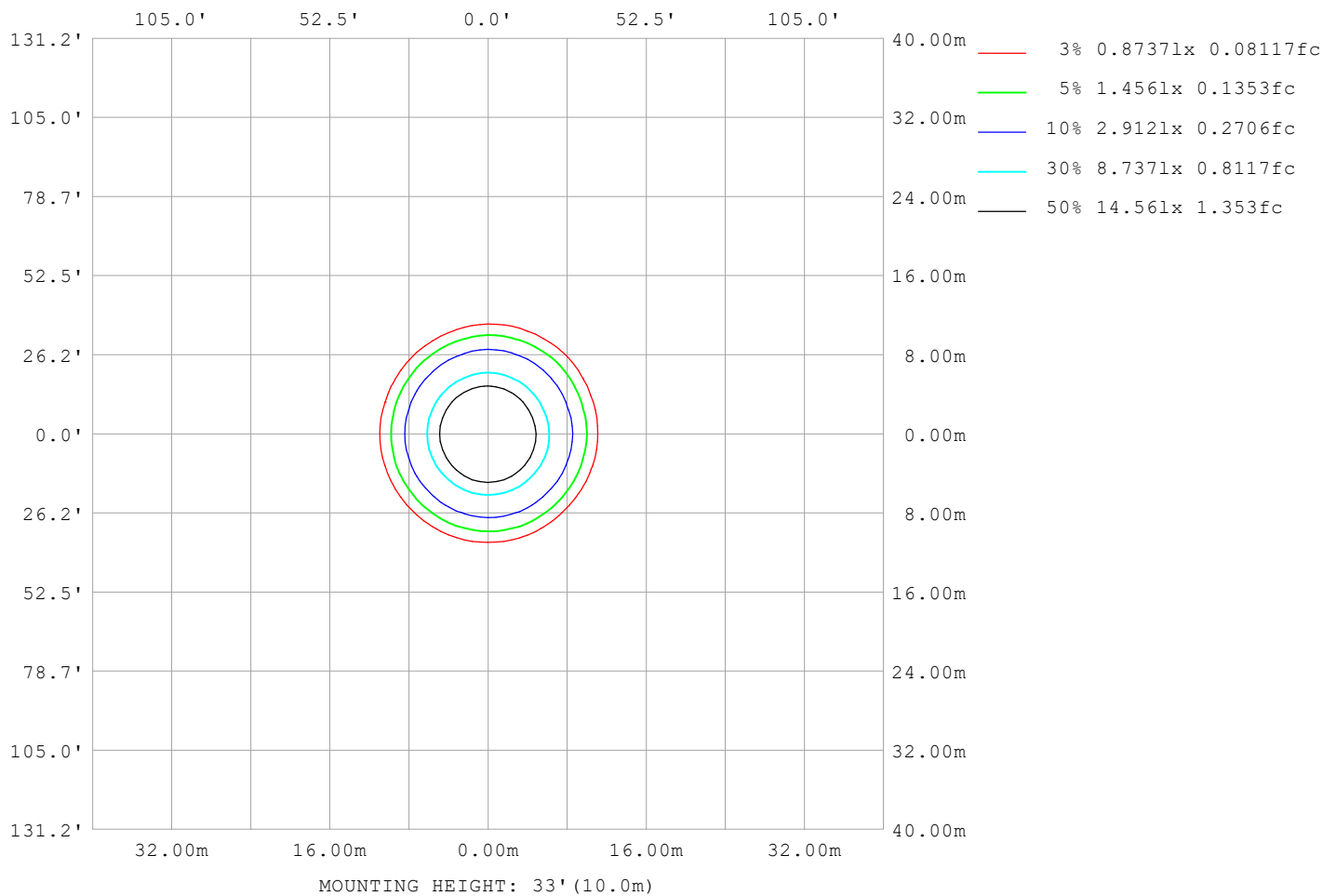
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-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: 2025-09-27

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:230.12V I:0.108A P:23.63W PF:0.953 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3756.82x1 lm		
NAME: T1283A-60D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

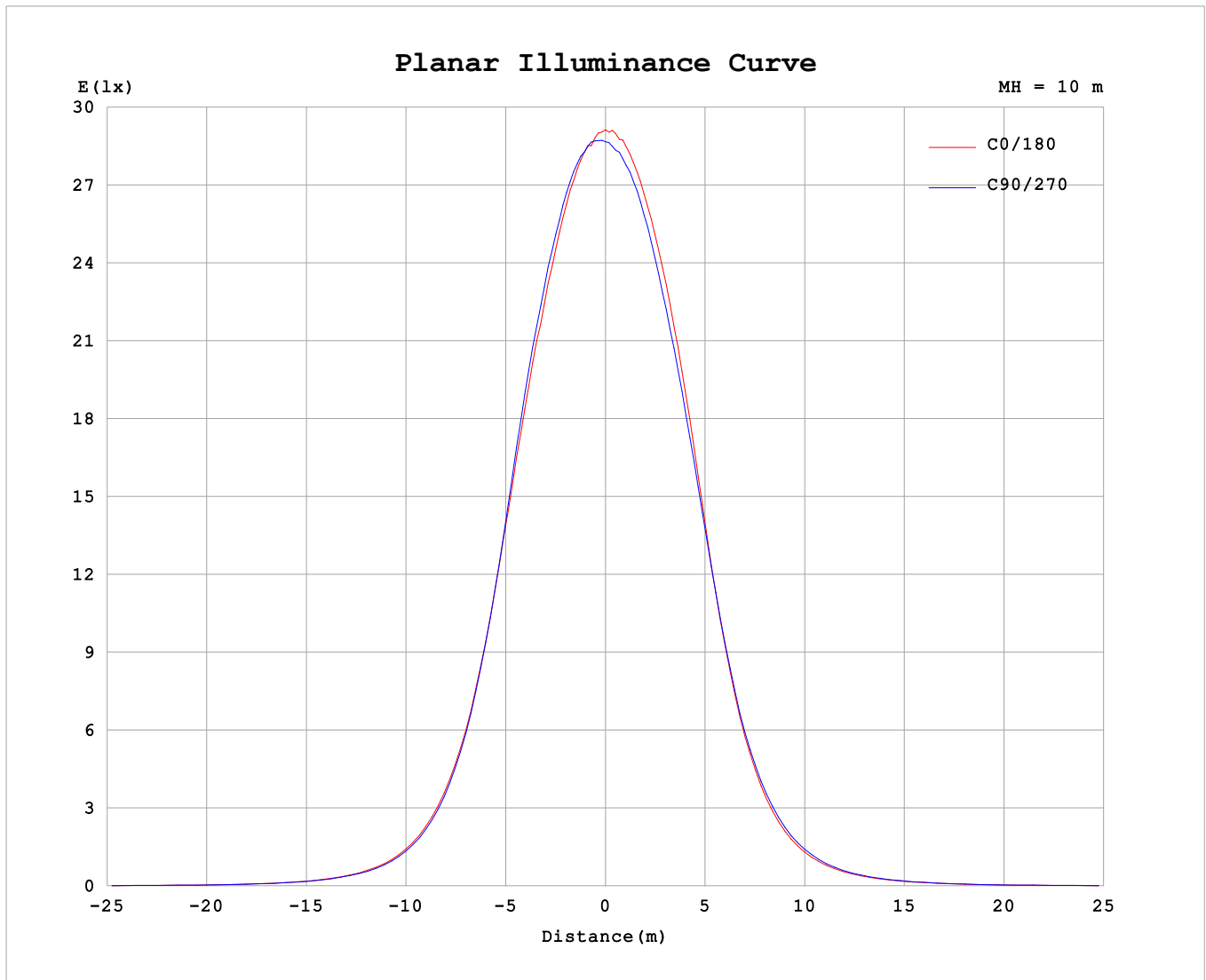
AvgL	cd/m2
L_0~180 (65) av	30596
L_0~180 (75) av	19572
L_0~180 (85) av	1391
L_90~270 (65) av	30701
L_90~270 (75) av	19628
L_90~270 (85) av	1363
L_45 (65) av	30740
L_45 (75) av	19673
L_45 (85) av	1353

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-09-27

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: 2025-09-27

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:

```

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:

```