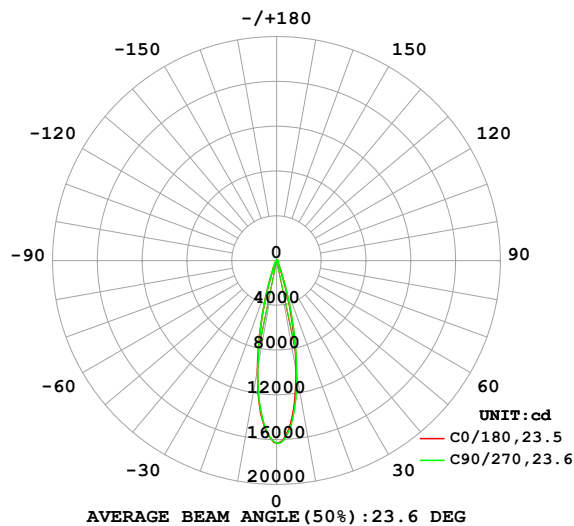


LUMINAIRE PHOTOMETRIC TEST REPORT

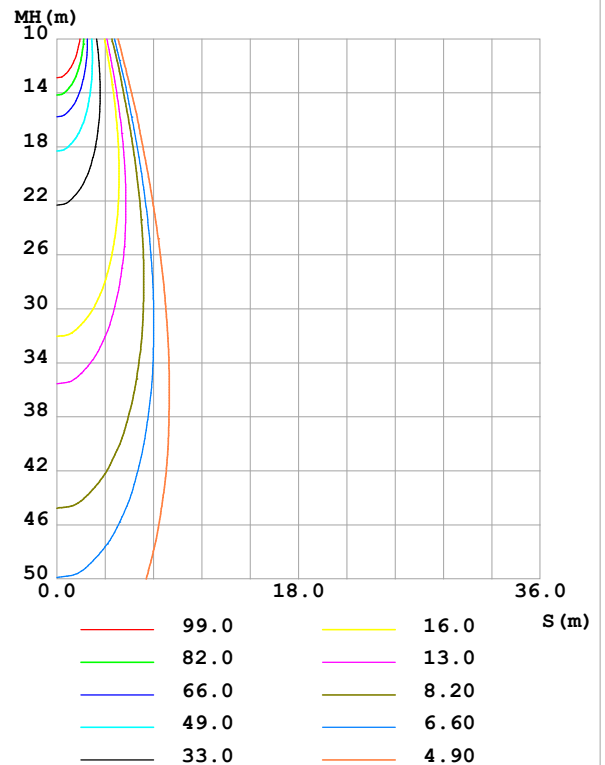
Test:U:230.15V I:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 135.39 lm/W			
MODEL	SH1814-0912J18W30H	I _{max} (cd)	16337	S/MH (C0/180)	0.39
NOMINAL POWER(W)	25	LOR (%)	86.5	S/MH (C90/270)	0.39
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3190.7	η UP,DN (C0-180)	0.0,44.6
NOMINAL FLUX(lm)	3688.62	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,41.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down (%)	86.5	CIBSE SHR MAX	0.30

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	1008	1026	1044	1033	988.0	976.8	974.7	980.2	0- 10	1240	1240	38.9,33.6
20	172.8	181.4	191.2	185.3	165.1	163.9	171.5	169.4	10- 20	1379	2619	82.1,71
30	28.39	31.75	27.13	33.35	28.53	26.48	34.26	27.07	20- 30	329.1	2948	92.4,79.9
40	9.649	11.47	9.207	11.78	10.01	9.028	11.69	9.108	30- 40	108.1	3056	95.8,82.8
50	5.922	6.300	6.108	6.419	6.146	6.151	6.361	6.053	40- 50	57.37	3113	97.6,84.4
60	3.790	3.719	3.928	3.771	3.778	3.820	3.644	3.779	50- 60	44.99	3158	99,85.6
70	1.411	1.430	1.477	1.451	1.381	1.367	1.344	1.373	60- 70	23.58	3182	99.7,86.3
80	0.2466	0.2487	0.2759	0.2568	0.2315	0.2285	0.1842	0.2221	70- 80	8.249	3190	100,86.5
90	0.0318	0.0314	0.0321	0.0307	0.0293	0.0284	0.0296	0.0297	80- 90	0.6287	3191	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:X10cd									UNIT:lm		

Conical surface Flux(90deg): 3086.6 lm

%lum = 96.7%

%lamp = 83.7%

Conical surface Flux(130deg): 3172.9 lm

%lum = 99.4%

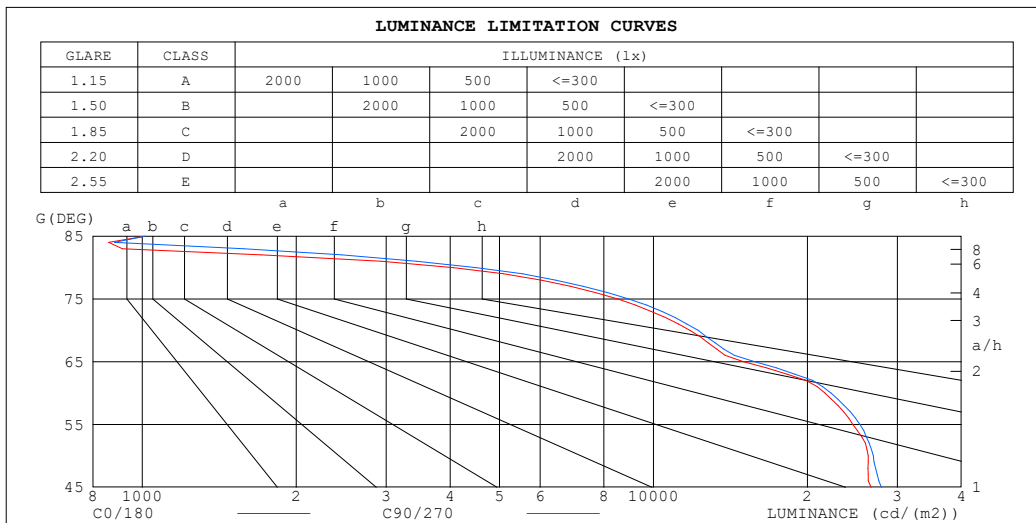
%lamp = 86.0%

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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1011	1011
80	4059	4500
75	8525	8945
70	11789	12227
65	15005	15784
60	21660	22247
55	24559	25336
50	26327	26910
45	26640	27898

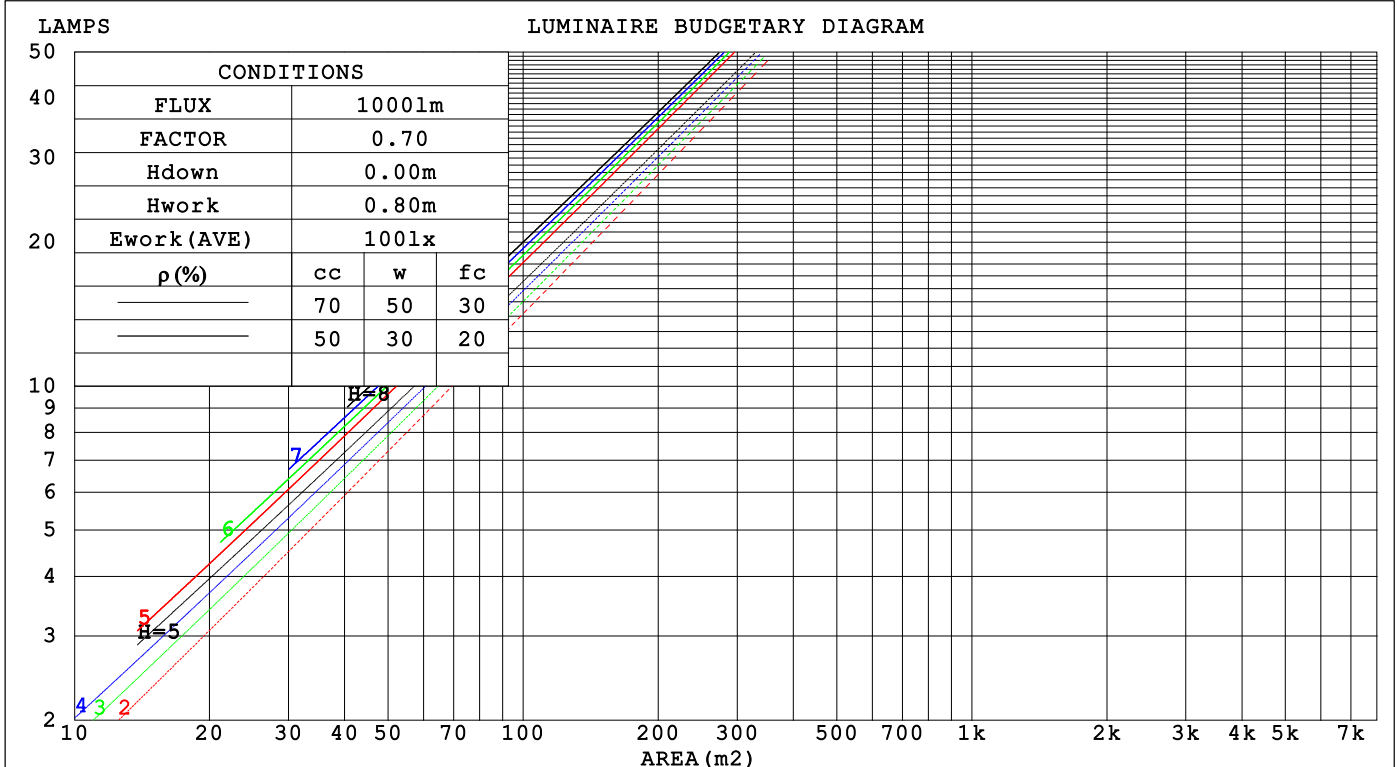
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-09-05

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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-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															



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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-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	.120	.068	.022	.115	.065	.021	.104	.060	.019	.094	.054	.017	.085	.049	.016		
2.0	.112	.061	.019	.107	.059	.018	.098	.055	.017	.090	.050	.016	.082	.047	.015		
3.0	.104	.055	.017	.100	.054	.016	.093	.050	.015	.086	.047	.014	.079	.044	.014		
4.0	.097	.050	.015	.094	.049	.014	.087	.046	.014	.082	.044	.013	.076	.041	.013		
5.0	.091	.046	.013	.088	.045	.013	.083	.043	.013	.078	.041	.012	.073	.039	.012		
6.0	.086	.043	.012	.083	.042	.012	.079	.040	.012	.075	.039	.011	.071	.037	.011		
7.0	.081	.040	.011	.079	.039	.011	.075	.038	.011	.071	.037	.011	.068	.035	.010		
8.0	.077	.038	.011	.075	.037	.010	.072	.036	.010	.069	.035	.010	.065	.034	.010		
9.0	.073	.035	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009		
10.0	.070	.034	.009	.069	.033	.009	.066	.032	.009	.063	.031	.009	.061	.031	.009		

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	.146	.136	.128	.125	.117	.110	.085	.081	.076	.049	.047	.044	.016	.015	.014	
2.0	.130	.115	.102	.112	.099	.088	.076	.068	.061	.044	.040	.036	.014	.013	.012	
3.0	.117	.098	.083	.101	.085	.072	.069	.059	.050	.040	.034	.030	.013	.011	.010	
4.0	.106	.085	.068	.091	.073	.059	.063	.051	.042	.036	.030	.025	.012	.010	.008	
5.0	.097	.074	.057	.084	.064	.050	.058	.045	.035	.033	.026	.021	.011	.009	.007	
6.0	.090	.065	.048	.077	.057	.042	.053	.040	.030	.031	.023	.018	.010	.008	.006	
7.0	.083	.058	.041	.071	.051	.036	.049	.035	.025	.029	.021	.015	.009	.007	.005	
8.0	.077	.052	.035	.066	.045	.031	.046	.032	.022	.027	.019	.013	.009	.006	.004	
9.0	.072	.048	.031	.062	.041	.027	.043	.029	.019	.025	.017	.011	.008	.006	.004	
10.0	.068	.043	.027	.058	.038	.024	.041	.026	.017	.024	.016	.010	.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:0.108A P:23.57W PF:0.952 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm										
NAME: T1283A-24D-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	16.2	16.9	16.4	17.0	17.2	16.1	16.7	16.3	16.9	17.0
3H	16.7	17.3	16.9	17.4	17.6	16.6	17.2	16.8	17.4	17.5
4H	16.8	17.3	17.0	17.5	17.8	16.7	17.3	16.9	17.5	17.7
6H	16.7	17.3	17.0	17.5	17.8	16.7	17.2	17.0	17.5	17.7
8H	16.7	17.2	17.0	17.5	17.7	16.6	17.2	16.9	17.4	17.7
12H	16.7	17.2	17.0	17.4	17.7	16.6	17.1	16.9	17.4	17.6
4H 2H	16.5	17.1	16.7	17.3	17.5	16.4	16.9	16.6	17.1	17.4
3H	17.0	17.5	17.3	17.8	18.1	16.9	17.5	17.2	17.7	18.0
4H	17.2	17.6	17.5	17.9	18.2	17.1	17.6	17.4	17.9	18.2
6H	17.2	17.6	17.5	17.9	18.2	17.1	17.5	17.5	17.9	18.2
8H	17.1	17.5	17.5	17.8	18.2	17.1	17.5	17.5	17.8	18.2
12H	17.1	17.4	17.5	17.8	18.2	17.0	17.4	17.4	17.8	18.1
8H 4H	17.1	17.5	17.5	17.9	18.2	17.1	17.5	17.5	17.8	18.2
6H	17.1	17.5	17.6	17.9	18.3	17.1	17.4	17.5	17.8	18.2
8H	17.1	17.4	17.5	17.8	18.2	17.1	17.3	17.5	17.8	18.2
12H	17.0	17.3	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
12H 4H	17.1	17.4	17.5	17.8	18.2	17.0	17.4	17.4	17.8	18.1
6H	17.1	17.4	17.5	17.8	18.2	17.1	17.3	17.5	17.8	18.2
8H	17.0	17.3	17.5	17.7	18.2	17.0	17.3	17.5	17.7	18.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.8 / - 0.9					+ 0.5 / - 0.7				
1.5H	+ 0.9 / - 0.8					+ 0.4 / - 0.6				
2.0H	+ 0.8 / - 1.1					+ 0.7 / - 1.0				

CIE Pub.117, 3689 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

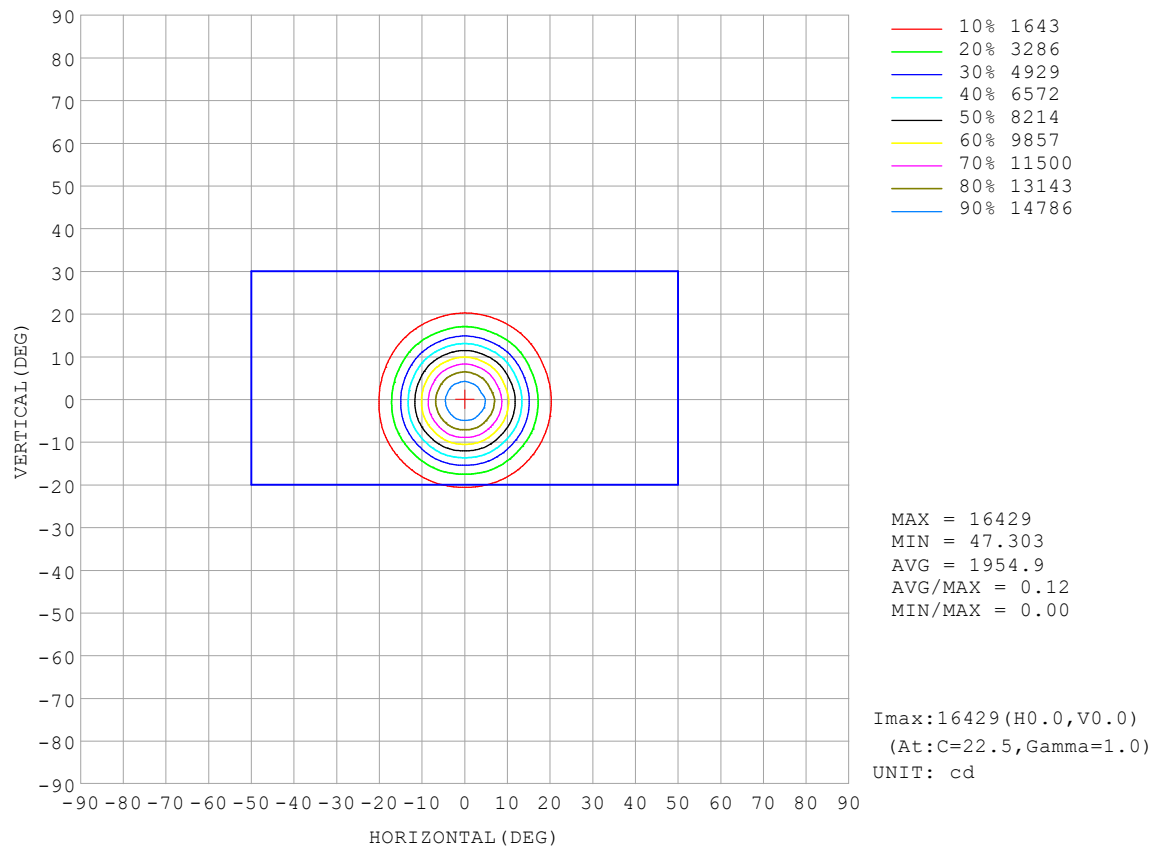
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	72	69	76	72	68	76	71	68	65
0.80	83	78	75	83	78	75	82	78	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	86	91	88	85	89	86	84	80
2.00	94	91	88	93	90	88	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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

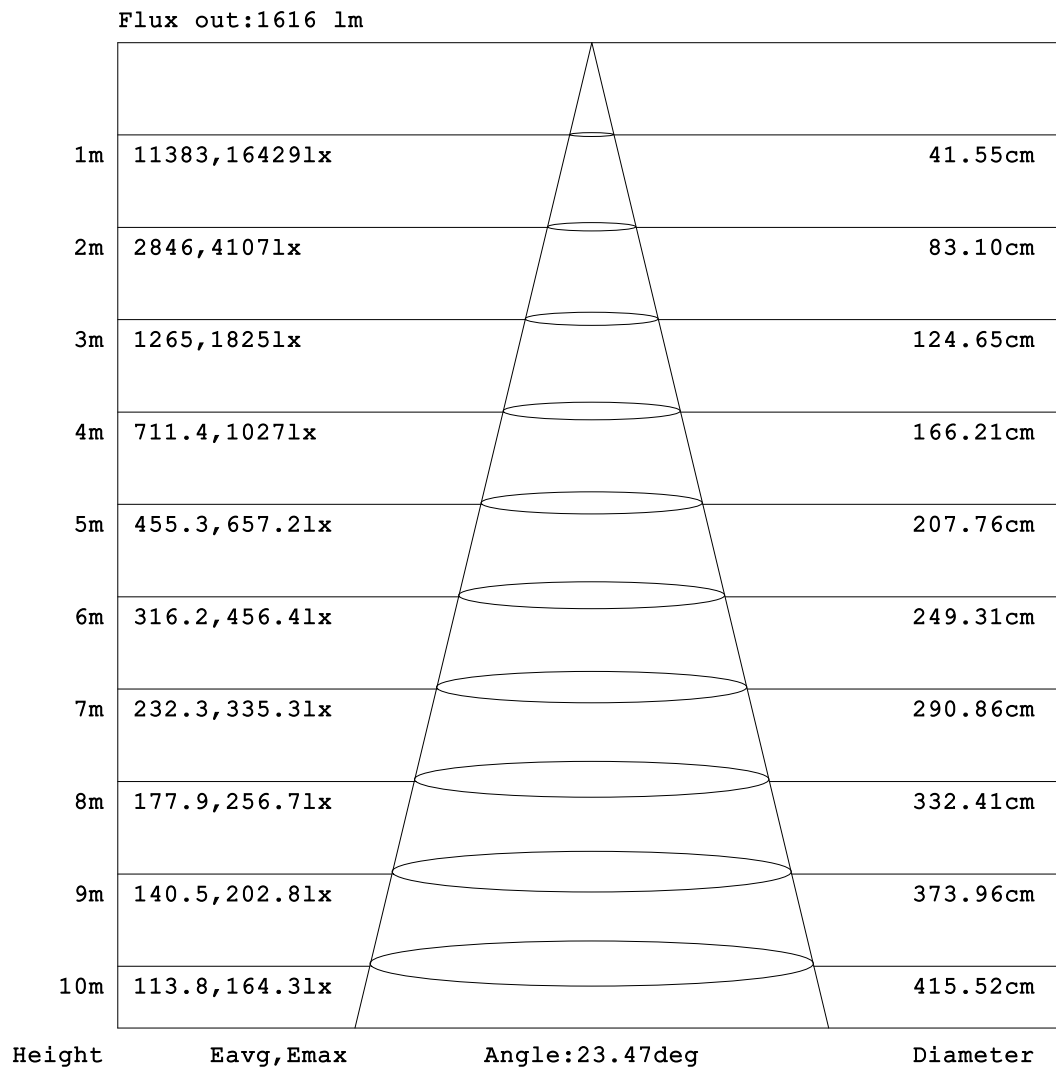


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-09-05

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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		



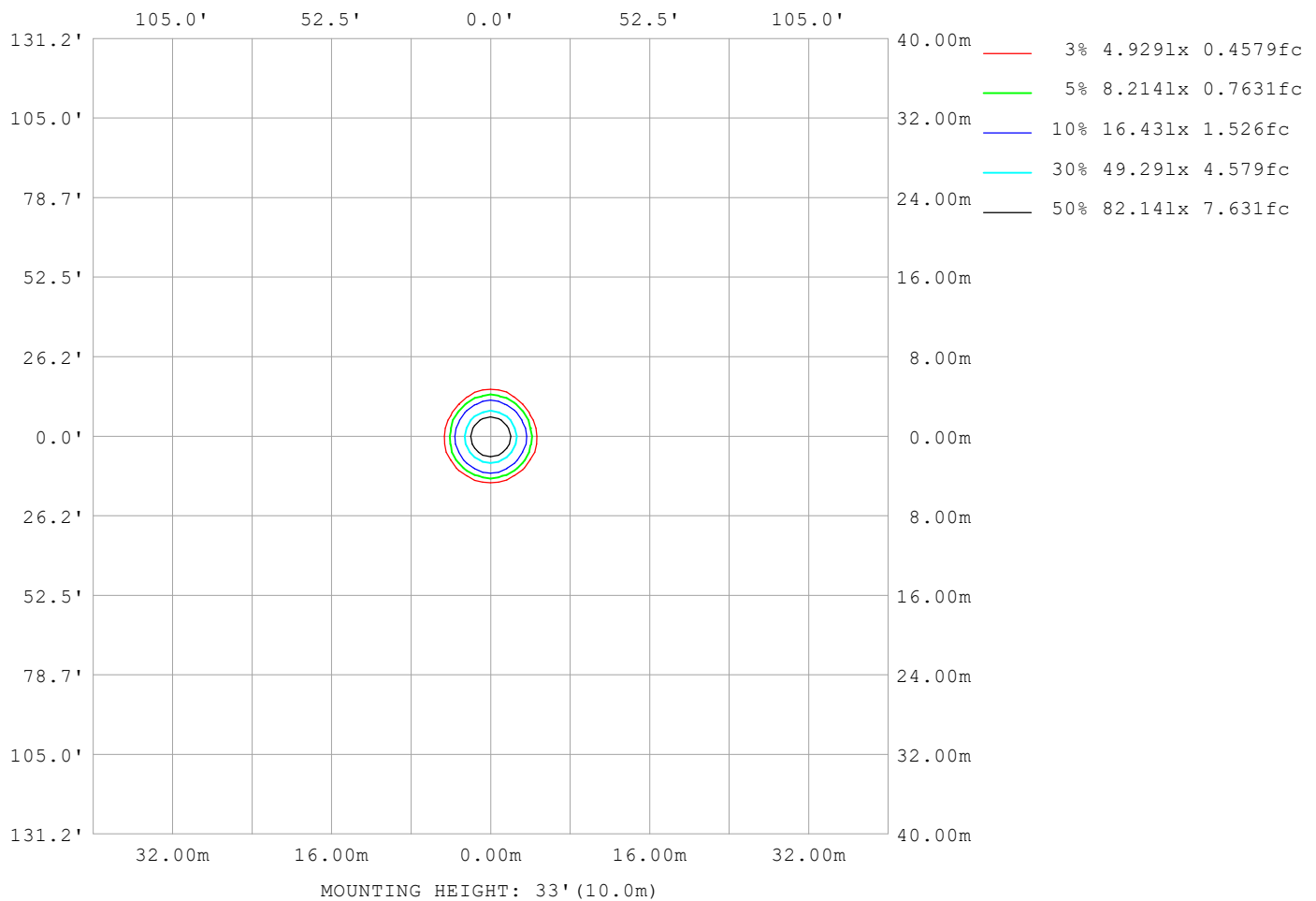
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-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:0.108A P:23.57W PF:0.952 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3688.62x1 lm		
NAME: T1283A-24D-3090		
SPEC.: KGP 26W/650mA		
MFR.: SOTEN		

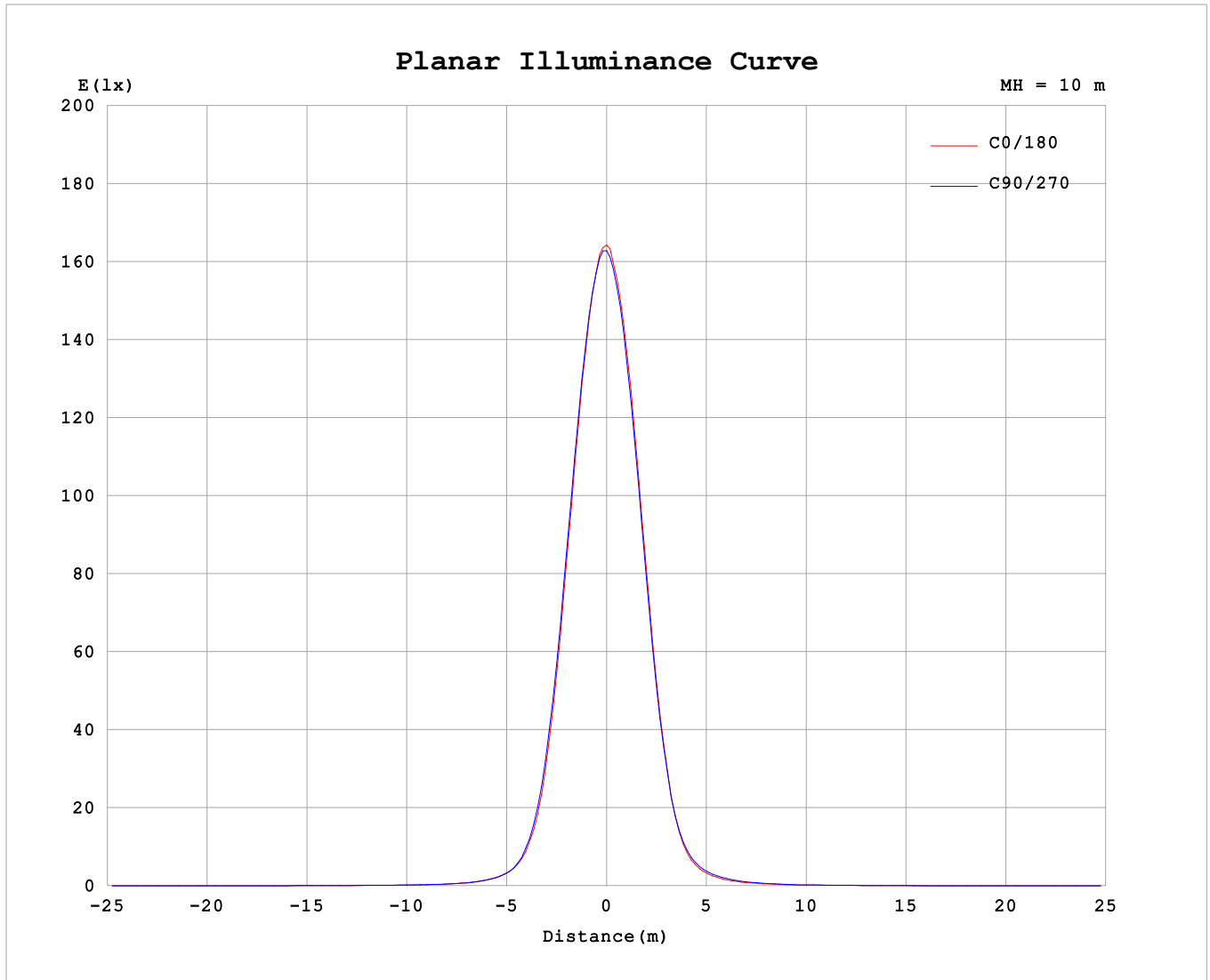
AvgL	cd/m2
L_0~180 (65) av	14776
L_0~180 (75) av	8380
L_0~180 (85) av	963
L_90~270 (65) av	14838
L_90~270 (75) av	8409
L_90~270 (85) av	964
L_45 (65) av	14778
L_45 (75) av	8387
L_45 (85) av	932

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:

```

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:

```