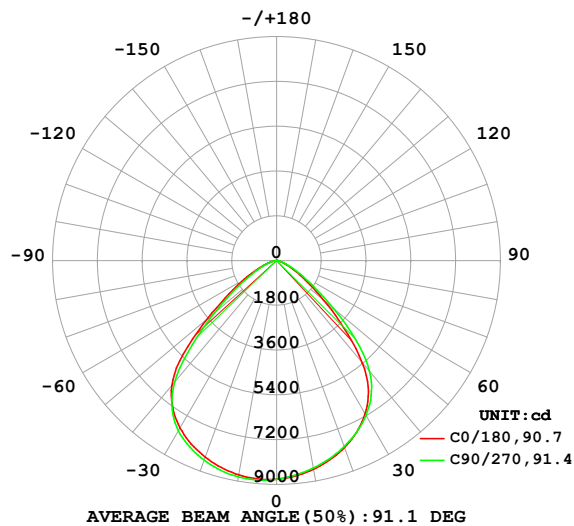


LUMINAIRE PHOTOMETRIC TEST REPORT

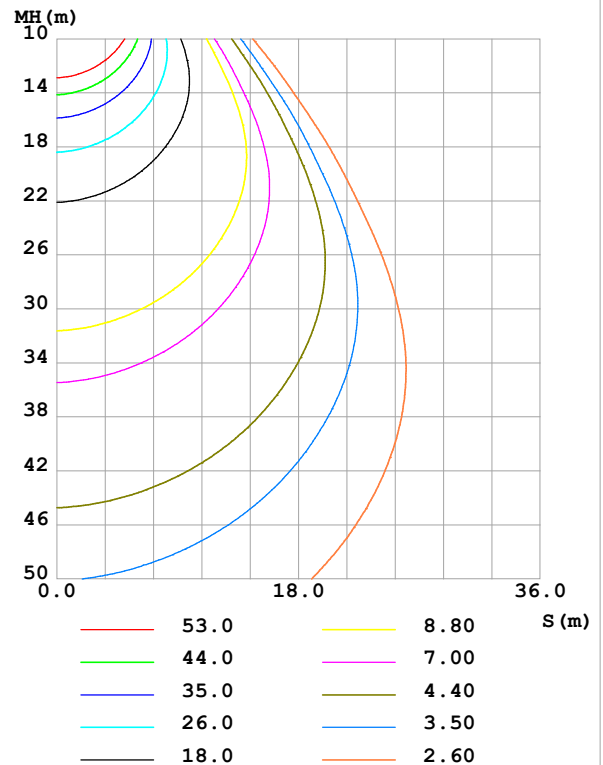
Test:U:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.07 lm/W			
MODEL	2835	I _{max} (cd)	8865	S/MH(C0/180)	1.31
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	17435	η UP,DN(C0-180)	0.0,47.8
NOMINAL FLUX(lm)	17435.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	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: 22.5DEG
Test Speed: HIGH
Temperature: 28 °C
Operators: Li
Test Date: 2025-12-24

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	8518	8445	8468	8567	8746	8848	8827	8702	0- 10	831.7	831.7	4.77,4.77
20	7994	7895	7955	8117	8402	8568	8532	8309	10- 20	2390	3222	18.5,18.5
30	7116	7058	7187	7389	7766	7972	7898	7562	20- 30	3642	6863	39.4,39.4
40	5360	5523	5818	6083	6551	6656	6386	5942	30- 40	4297	11160	64,64
50	2466	2665	2967	3114	3619	3634	3272	2824	40- 50	3520	14681	84.2,84.2
60	923.5	990.0	1099	1191	1500	1487	1270	1022	50- 60	1760	16441	94.3,94.3
70	304.4	333.9	377.4	431.4	535.1	531.4	437.7	343.4	60- 70	729.1	17170	98.5,98.5
80	40.19	60.90	83.75	99.66	134.1	119.6	78.81	53.97	70- 80	238.5	17408	99.8,99.8
90	9.552	9.253	8.209	7.089	5.863	6.018	6.728	7.069	80- 90	26.59	17435	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): 13144 lm

%lum = 75.4%

%lamp = 75.4%

Conical surface Flux(130deg): 16892 lm

%lum = 96.9%

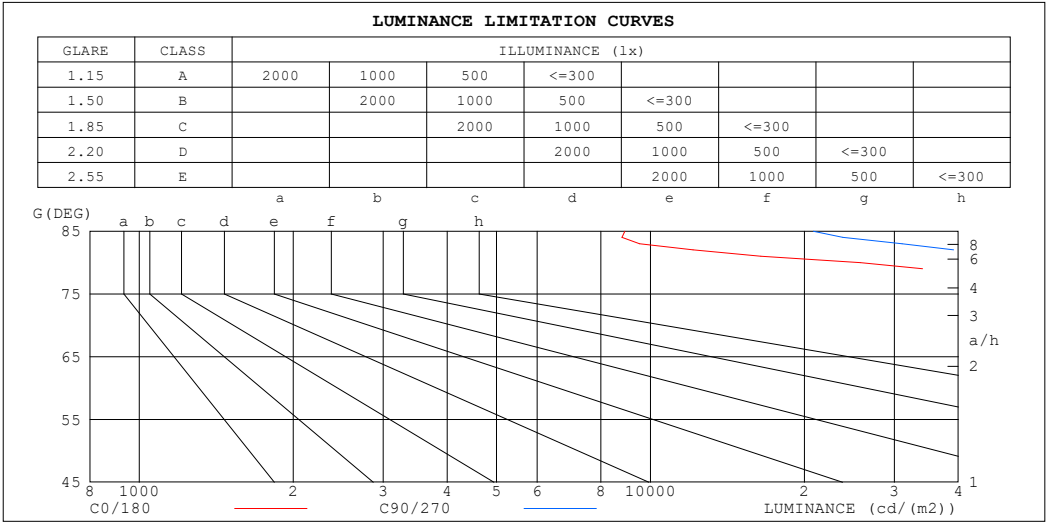
%lamp = 96.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8916	20818
80	25764	53592
75	62772	86684
70	99065	122608
65	142370	172583
60	205590	244343
55	294620	351157
50	426998	512855
45	599272	707390

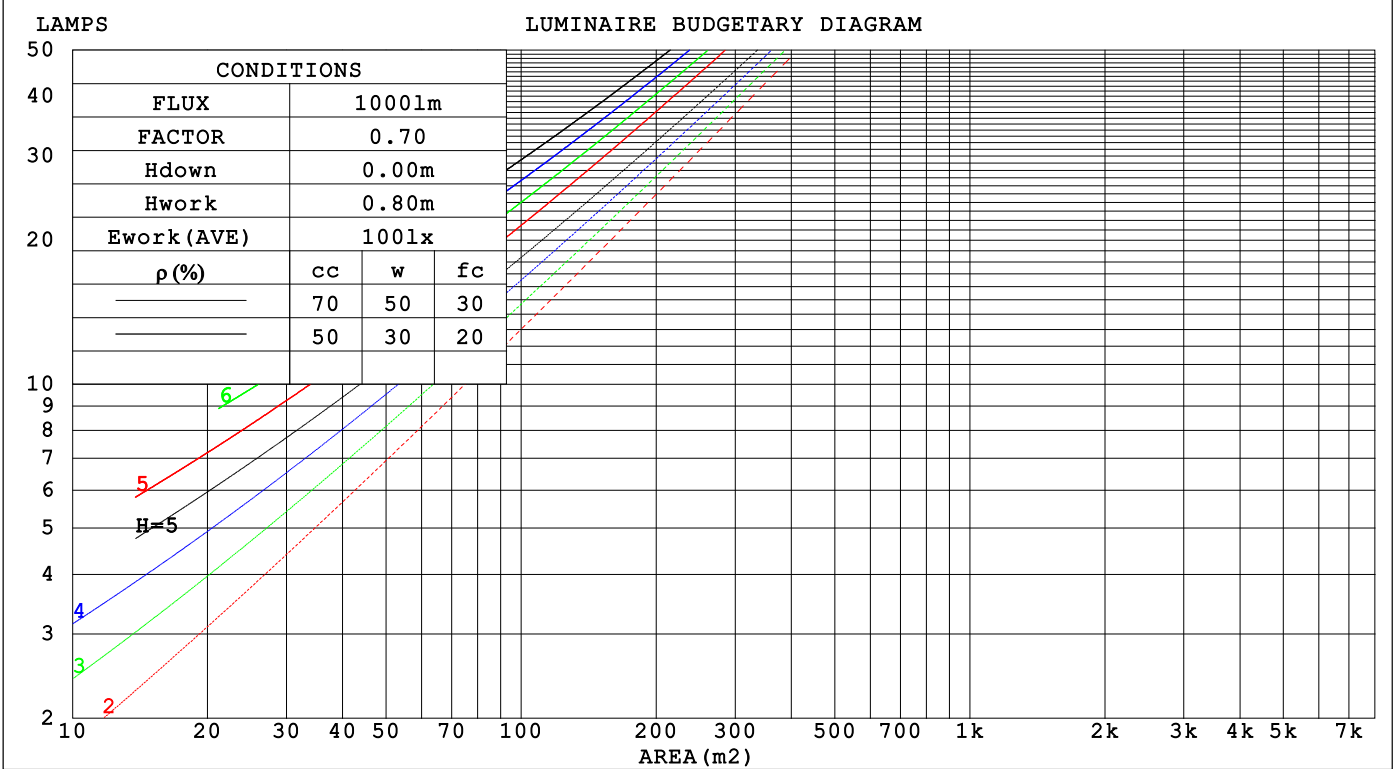
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
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	.232	.132	.042	.225	.128	.041	.212	.122	.039	.200	.116	.037	.189	.110	.035															
2.0	.227	.124	.038	.221	.122	.037	.210	.117	.036	.199	.112	.035	.190	.107	.034															
3.0	.217	.115	.035	.211	.113	.034	.202	.109	.033	.193	.106	.032	.184	.102	.032															
4.0	.205	.107	.031	.201	.105	.031	.192	.102	.030	.184	.099	.030	.177	.096	.029															
5.0	.194	.099	.029	.190	.098	.028	.183	.095	.028	.176	.093	.028	.169	.090	.027															
6.0	.184	.092	.026	.180	.091	.026	.173	.089	.026	.167	.087	.026	.161	.085	.025															
7.0	.174	.086	.024	.171	.085	.024	.165	.083	.024	.159	.082	.024	.154	.080	.023															
8.0	.165	.080	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	.147	.075	.022															
9.0	.156	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.140	.071	.021															
10.0	.148	.071	.020	.146	.071	.020	.142	.069	.020	.137	.068	.019	.134	.067	.019															

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.141	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.053	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.080	.043	.114	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm										
NAME: H1002P										
SPEC.: PHILIPS/MID										
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	23.9	25.1	24.1	25.3	25.5	24.5	25.8	24.8	26.0	26.2
3H	23.9	25.1	24.2	25.3	25.5	24.6	25.8	24.9	26.0	26.2
4H	23.9	25.0	24.2	25.2	25.4	24.6	25.7	24.9	25.9	26.2
6H	23.8	24.8	24.1	25.1	25.3	24.5	25.6	24.9	25.8	26.1
8H	23.7	24.7	24.1	25.0	25.3	24.5	25.5	24.8	25.8	26.0
12H	23.7	24.6	24.0	24.9	25.2	24.5	25.4	24.8	25.7	26.0
4H 2H	23.9	25.0	24.2	25.2	25.4	24.5	25.6	24.8	25.8	26.0
3H	24.0	24.9	24.3	25.2	25.5	24.6	25.6	25.0	25.9	26.2
4H	24.0	24.8	24.3	25.1	25.4	24.7	25.5	25.0	25.8	26.1
6H	23.9	24.6	24.3	25.0	25.3	24.6	25.4	25.0	25.7	26.1
8H	23.8	24.5	24.2	24.9	25.3	24.6	25.3	25.0	25.6	26.0
12H	23.8	24.4	24.2	24.8	25.2	24.5	25.2	25.0	25.6	26.0
8H 4H	23.9	24.6	24.3	24.9	25.3	24.6	25.3	25.0	25.6	26.0
6H	23.8	24.4	24.3	24.8	25.2	24.5	25.1	25.0	25.5	25.9
8H	23.8	24.3	24.2	24.7	25.1	24.5	25.0	25.0	25.4	25.9
12H	23.7	24.2	24.2	24.6	25.1	24.5	24.9	25.0	25.4	25.8
12H 4H	23.8	24.5	24.3	24.8	25.2	24.5	25.2	24.9	25.5	25.9
6H	23.8	24.3	24.2	24.7	25.2	24.5	25.0	25.0	25.4	25.9
8H	23.7	24.2	24.2	24.6	25.1	24.5	24.9	25.0	25.4	25.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.6 / - 2.5					+ 1.4 / - 2.1				
1.5H	+ 1.3 / - 1.8					+ 1.0 / - 1.7				
2.0H	+ 3.2 / - 3.2					+ 3.2 / - 3.2				

CIE Pub.117, 17435 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.9)
 Area: 0.009 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

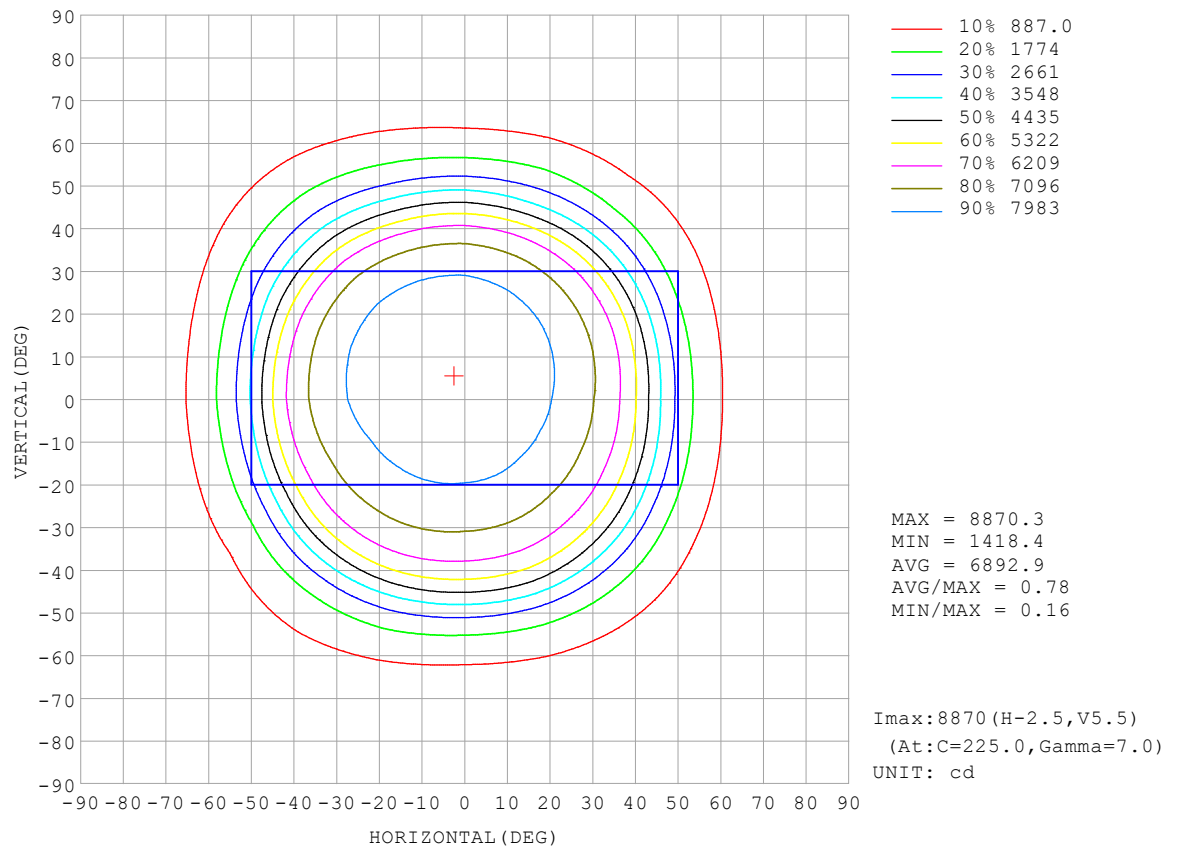
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	79	69	63	78	69	63	76	68	63	57
1.00	87	78	72	86	77	72	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	101	95	91	98	93	89	83
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	105	110	106	104	105	103	101	92
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: 2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

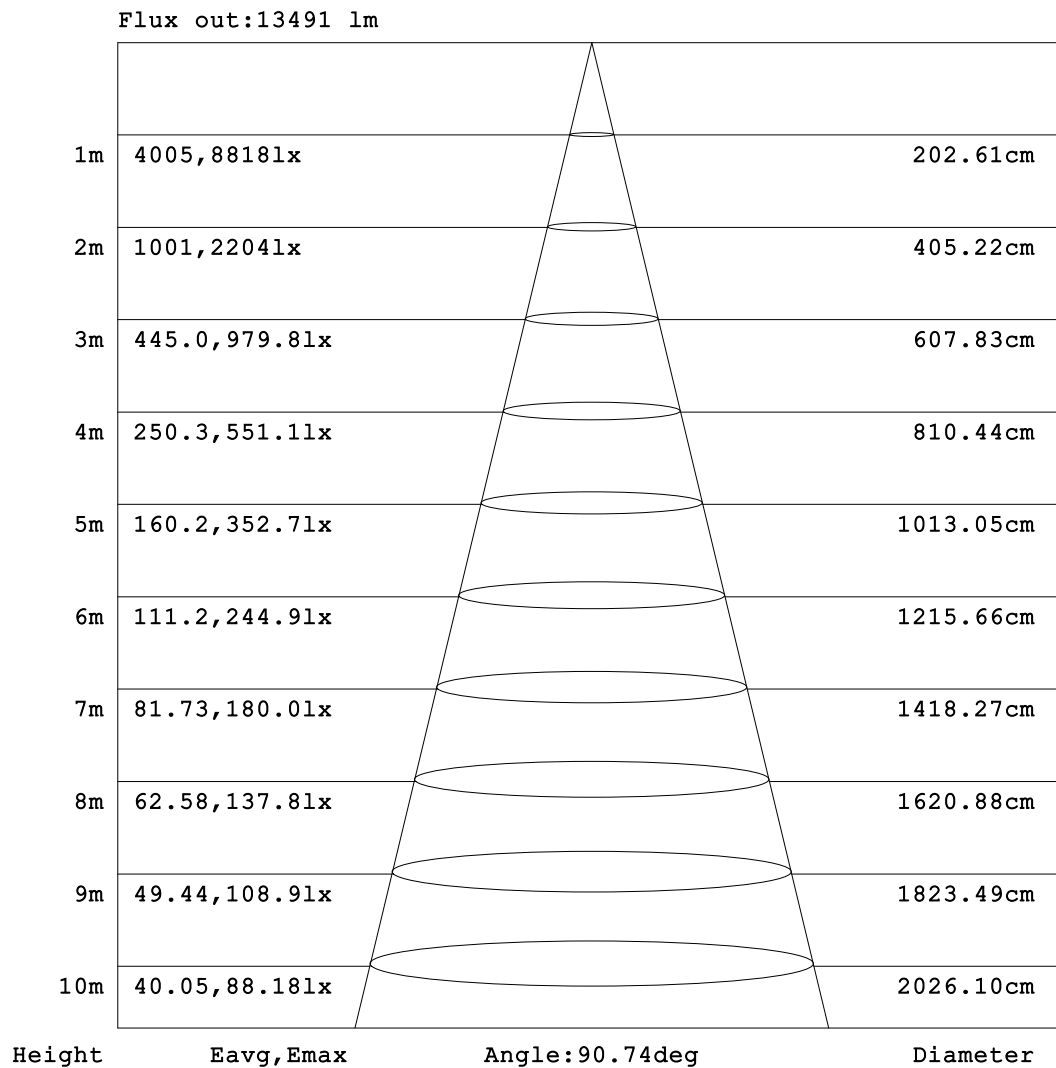


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		



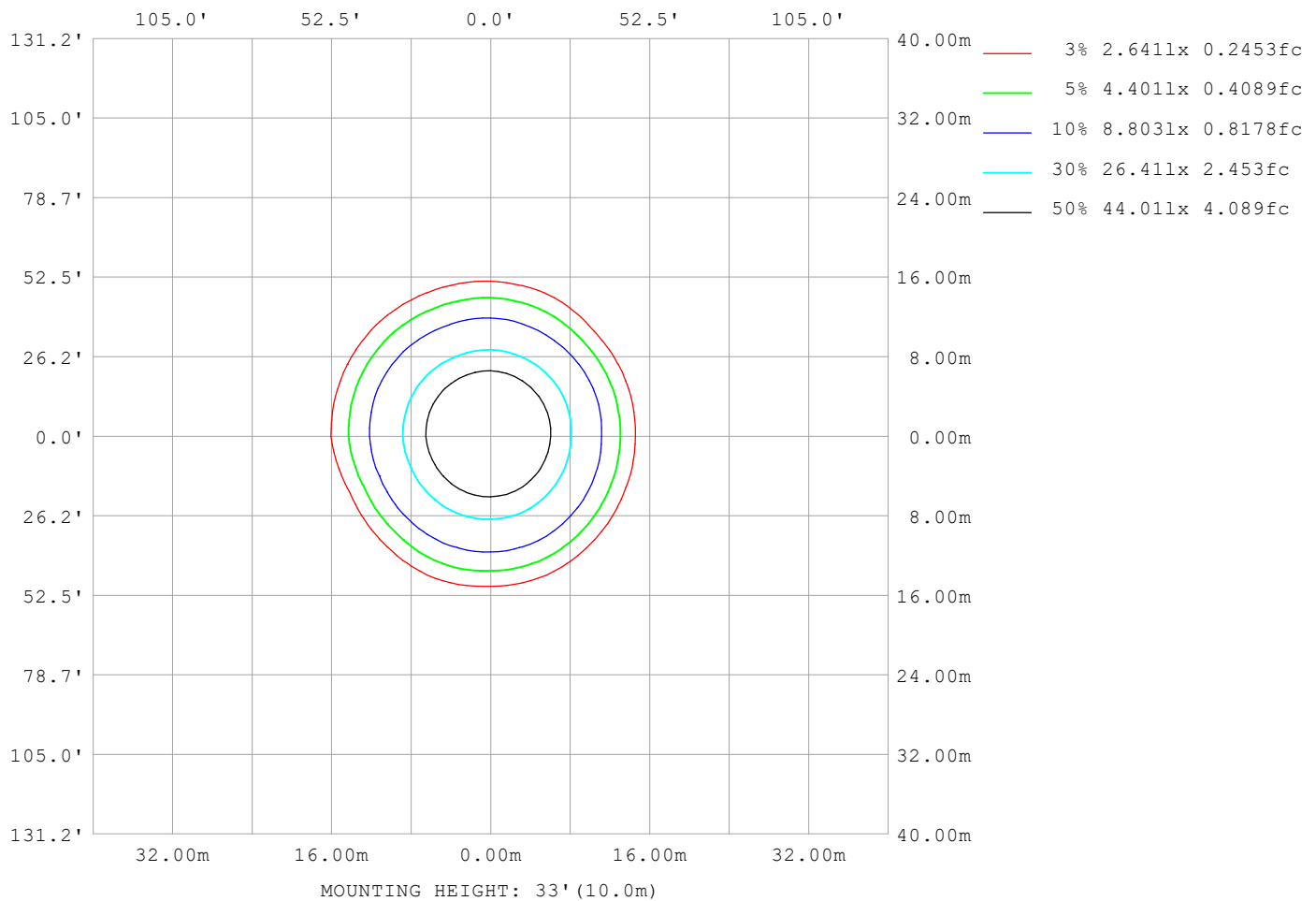
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-12-24

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:230.04V I:0.535A P:116.18W PF:0.944 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17435.1x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

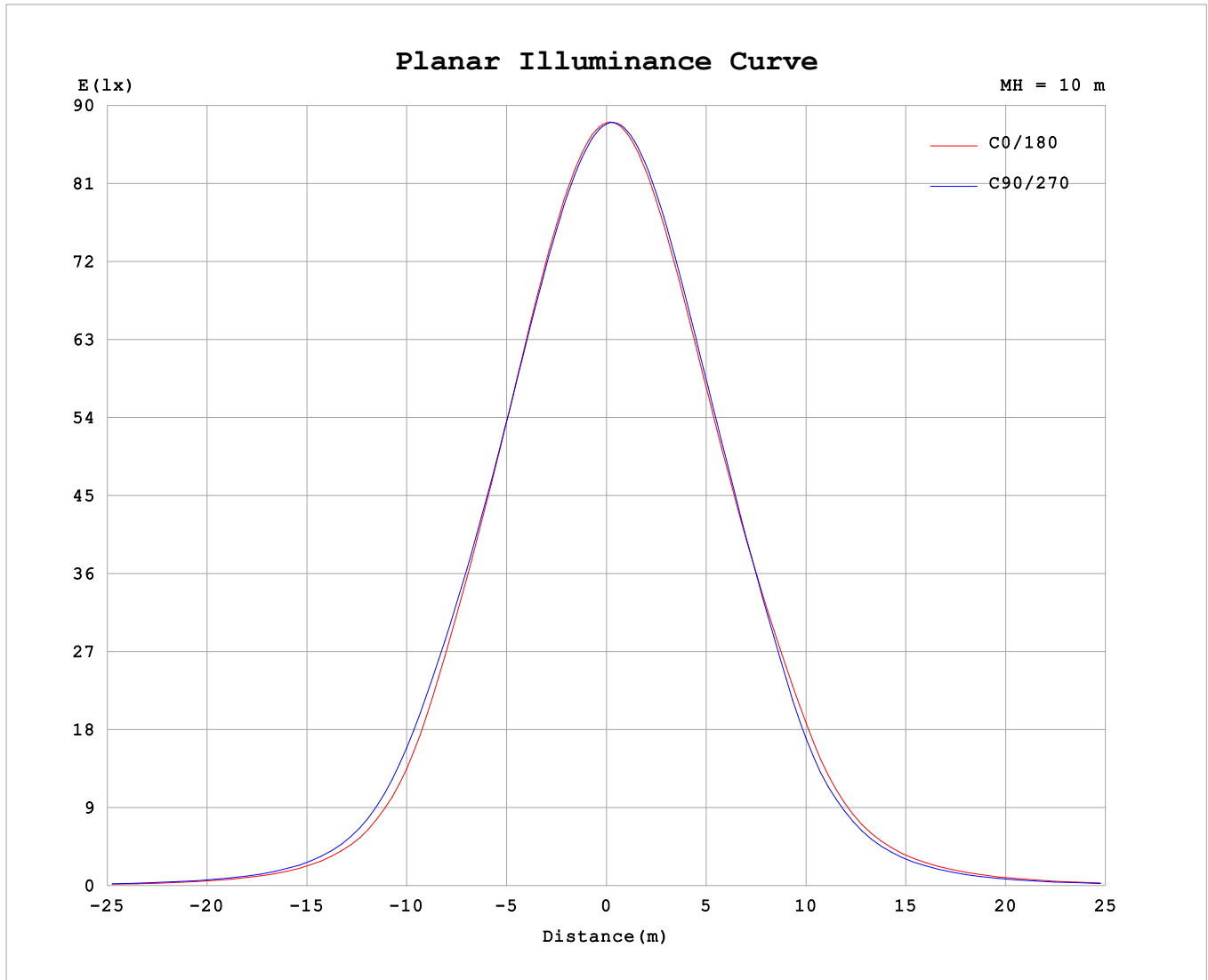
AvgL	cd/m2
L_0~180 (65) av	191271
L_0~180 (75) av	96054
L_0~180 (85) av	19764
L_90~270 (65) av	185736
L_90~270 (75) av	92545
L_90~270 (85) av	15074
L_45 (65) av	186394
L_45 (75) av	92784
L_45 (85) av	15237

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-12-24

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: 2025-12-24

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:

```