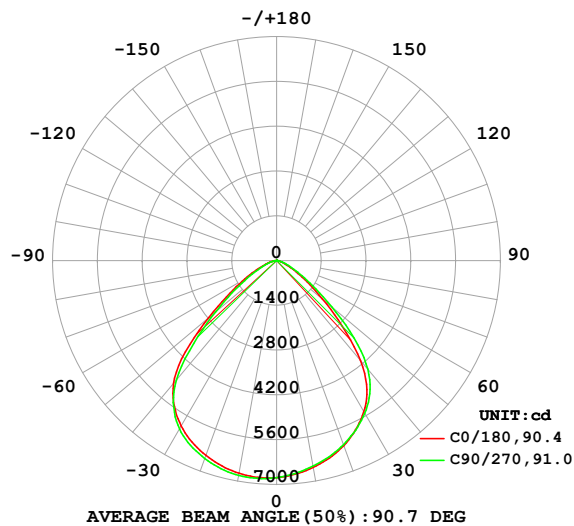


LUMINAIRE PHOTOMETRIC TEST REPORT

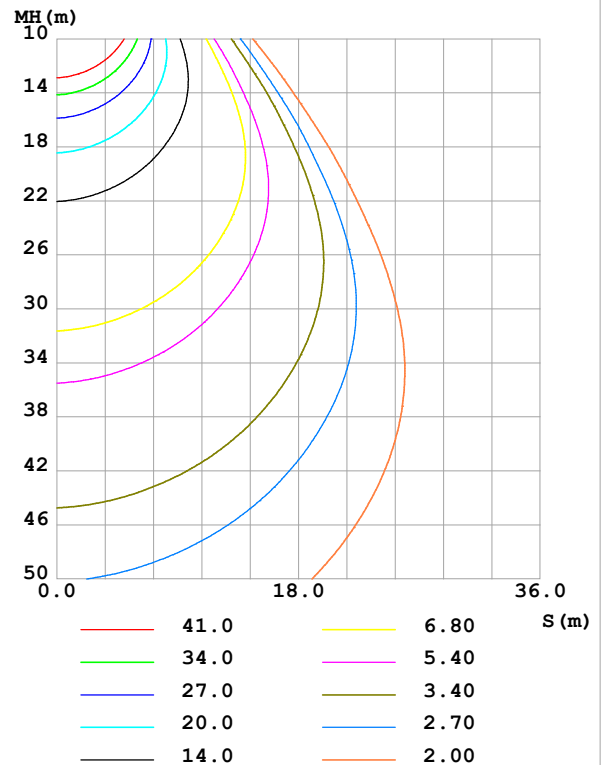
Test:U:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.62 lm/W			
MODEL	2835	I _{max} (cd)	6848	S/MH (C0/180)	1.30
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	13376	η UP, DN (C0-180)	0.0, 47.7
NOMINAL FLUX (lm)	13376	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.3
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	6568	6506	6528	6606	6752	6837	6818	6715	0- 10	641.9	641.9	4.8, 4.8
20	6152	6065	6121	6250	6477	6617	6580	6402	10- 20	1842	2484	18.6, 18.6
30	5458	5402	5516	5676	5970	6148	6076	5801	20- 30	2802	5286	39.5, 39.5
40	4079	4178	4436	4647	5010	5117	4880	4523	30- 40	3292	8578	64.1, 64.1
50	1879	2002	2254	2381	2769	2817	2506	2155	40- 50	2685	11263	84.2, 84.2
60	705.4	748.8	840.0	922.5	1154	1159	973.9	780.7	50- 60	1349	12612	94.3, 94.3
70	232.9	250.3	288.5	332.2	411.3	415.7	336.2	262.8	60- 70	559.5	13171	98.5, 98.5
80	31.45	46.12	64.60	77.10	104.2	96.76	62.13	42.10	70- 80	184.0	13355	99.8, 99.8
90	7.303	7.171	6.282	5.410	4.491	4.557	5.131	5.421	80- 90	20.95	13376	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): 10090 lm

%lum = 75.4%

%lamp = 75.4%

Conical surface Flux(130deg): 12958 lm

%lum = 96.9%

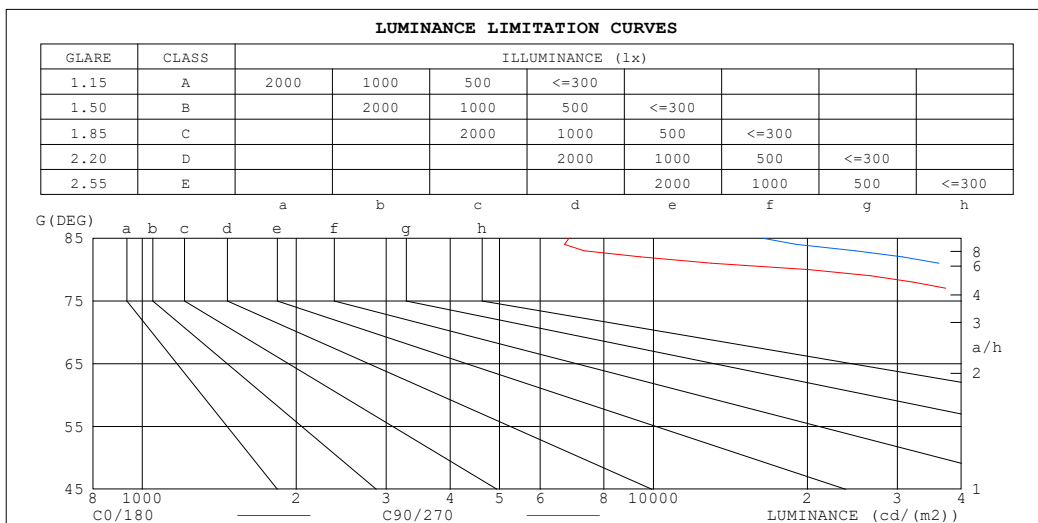
%lamp = 96.9%

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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6834	16383
80	20184	41330
75	47858	66899
70	75880	93693
65	108895	131924
60	157214	186643
55	226756	270270
50	325800	389627
45	458108	537892

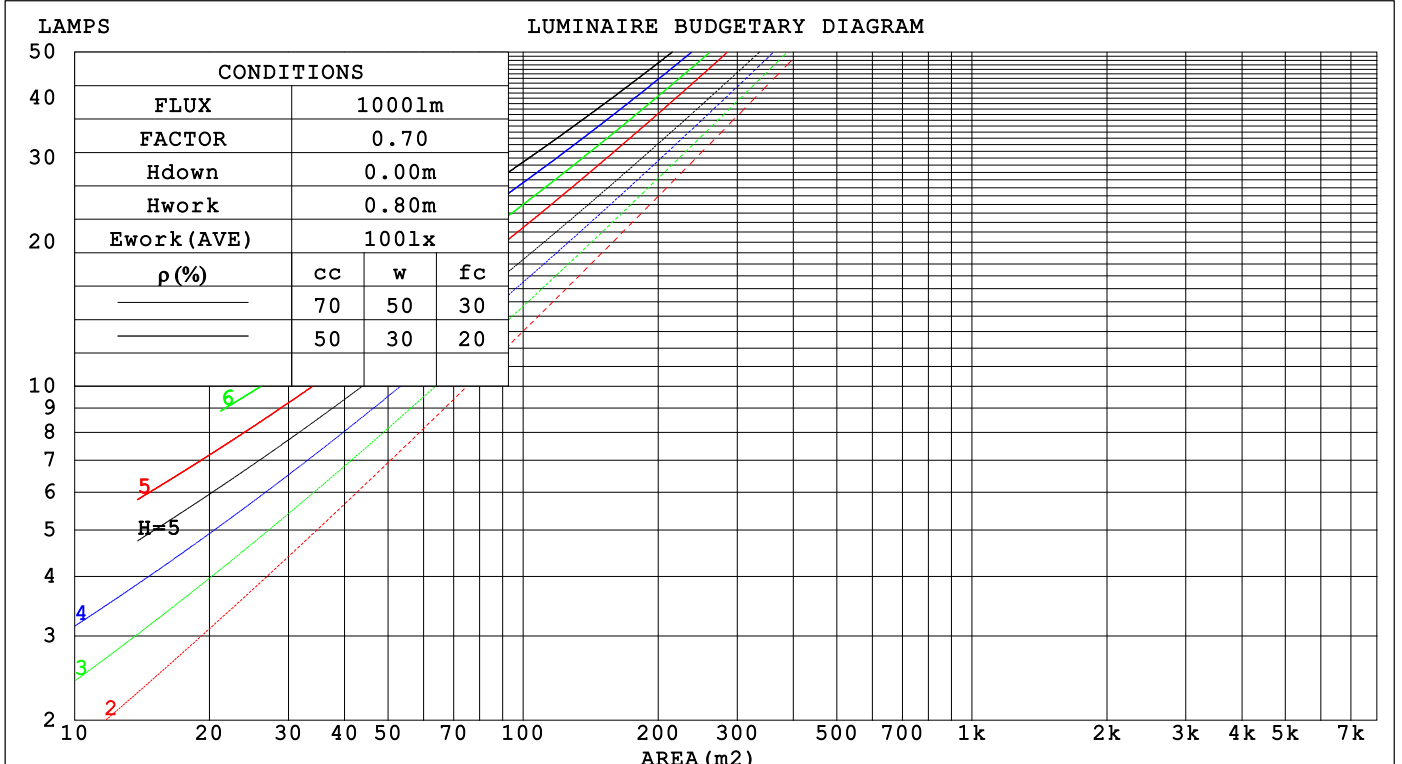
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-12-24

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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
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	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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.91	.86	.92	.88	.84	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.72	.70
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.74	.69	.64	.72	.67	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.66	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.62	.56	.51	.60	.55	.51	.49
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.46	.55	.50	.46	.44
8.0	.55	.48	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.37
10.0	.47	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
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	.115	.037	.189	.110	.035															
2.0	.226	.124	.038	.221	.121	.037	.209	.116	.036	.199	.112	.035	.190	.107	.034															
3.0	.216	.115	.034	.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	.164	.083	.024	.159	.081	.024	.154	.080	.023															
8.0	.165	.080	.023	.162	.080	.022	.156	.078	.022	.151	.077	.022	.146	.075	.022															
9.0	.156	.075	.021	.153	.075	.021	.149	.073	.021	.144	.072	.021	.140	.071	.021															
10.0	.148	.071	.020	.146	.070	.020	.142	.069	.020	.137	.068	.019	.133	.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	.043	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.103	.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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm										
NAME: H1002P										
SPEC.: PHILIPS/LOW										
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	22.9	24.2	23.1	24.3	24.5	23.5	24.8	23.8	25.0	25.2
3H	22.9	24.1	23.2	24.3	24.5	23.6	24.8	23.9	25.0	25.3
4H	22.9	24.0	23.2	24.2	24.5	23.6	24.7	23.9	25.0	25.2
6H	22.8	23.8	23.1	24.1	24.4	23.6	24.6	23.9	24.9	25.1
8H	22.8	23.8	23.1	24.0	24.3	23.5	24.5	23.9	24.8	25.1
12H	22.7	23.7	23.1	23.9	24.2	23.5	24.4	23.8	24.7	25.0
4H 2H	22.9	24.0	23.2	24.2	24.5	23.5	24.6	23.8	24.8	25.1
3H	23.0	23.9	23.3	24.2	24.5	23.7	24.6	24.0	24.9	25.2
4H	23.0	23.8	23.3	24.1	24.5	23.7	24.5	24.0	24.8	25.2
6H	22.9	23.7	23.3	24.0	24.4	23.6	24.4	24.0	24.7	25.1
8H	22.9	23.6	23.3	23.9	24.3	23.6	24.3	24.0	24.7	25.0
12H	22.8	23.5	23.2	23.8	24.2	23.6	24.2	24.0	24.6	25.0
8H 4H	22.9	23.6	23.3	24.0	24.3	23.6	24.3	24.0	24.6	25.0
6H	22.8	23.4	23.3	23.8	24.2	23.6	24.1	24.0	24.5	25.0
8H	22.8	23.3	23.3	23.7	24.2	23.5	24.0	24.0	24.5	24.9
12H	22.8	23.2	23.2	23.6	24.1	23.5	23.9	24.0	24.4	24.9
12H 4H	22.9	23.5	23.3	23.9	24.3	23.5	24.2	24.0	24.6	25.0
6H	22.8	23.3	23.3	23.7	24.2	23.5	24.0	24.0	24.5	24.9
8H	22.8	23.2	23.2	23.6	24.1	23.5	23.9	24.0	24.4	24.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 2.5					+ 1.4 / - 2.1				
1.5H	+ 1.3 / - 1.8					+ 1.1 / - 1.7				
2.0H	+ 3.2 / - 3.2					+ 3.2 / - 3.2				

CIE Pub.117, 13376 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.0)
 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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
MFR.: SOTEN		

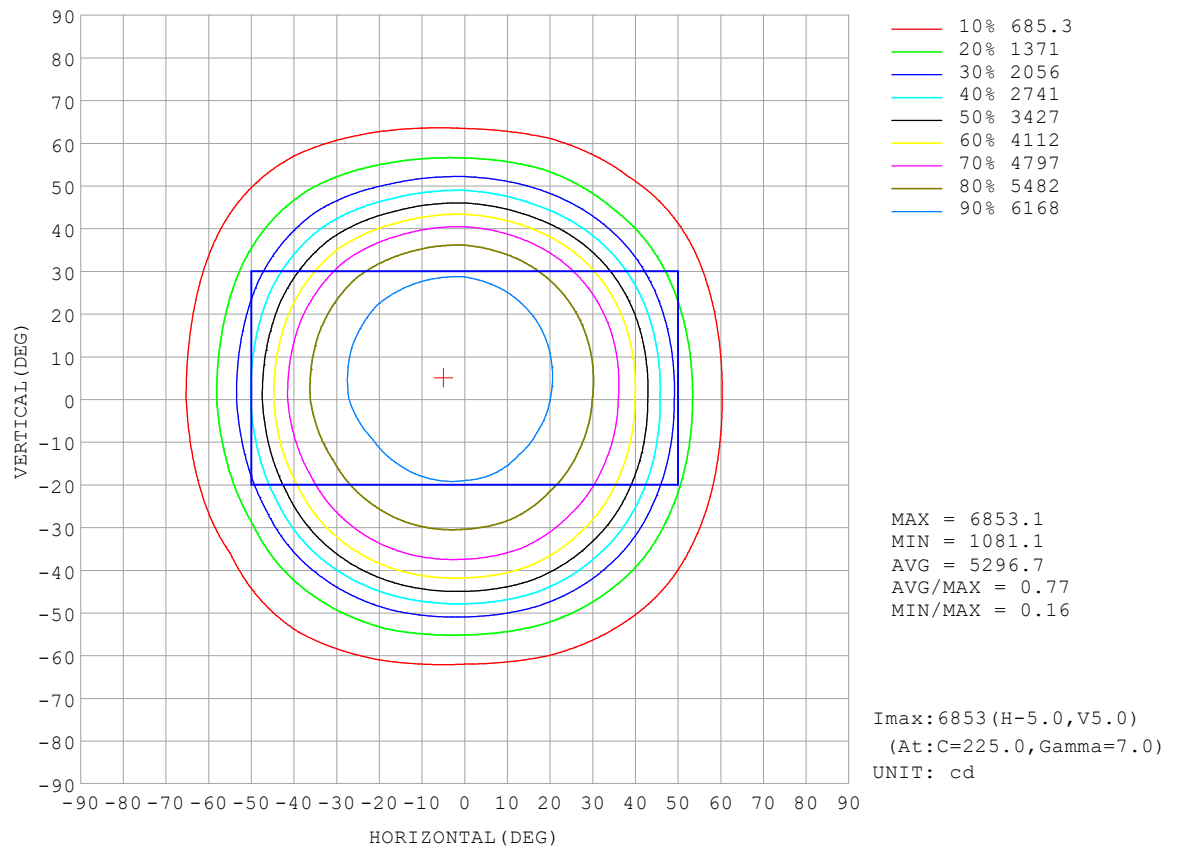
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	79	69	64	78	69	63	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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
MFR.: SOTEN		

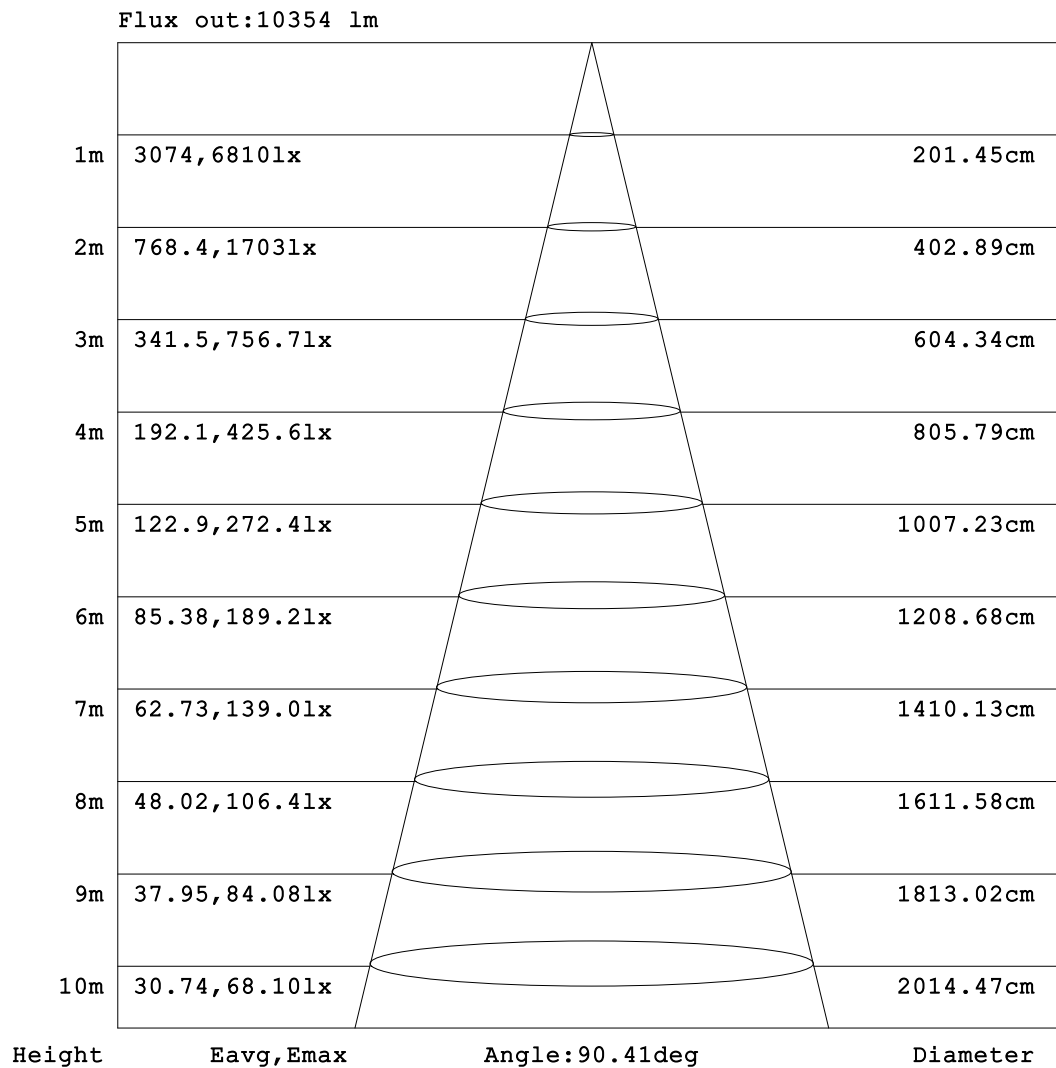


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28°C
Operators: Li
Test Date: 2025-12-24

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:

AAI Figure

Test:U:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
MFR.: SOTEN		



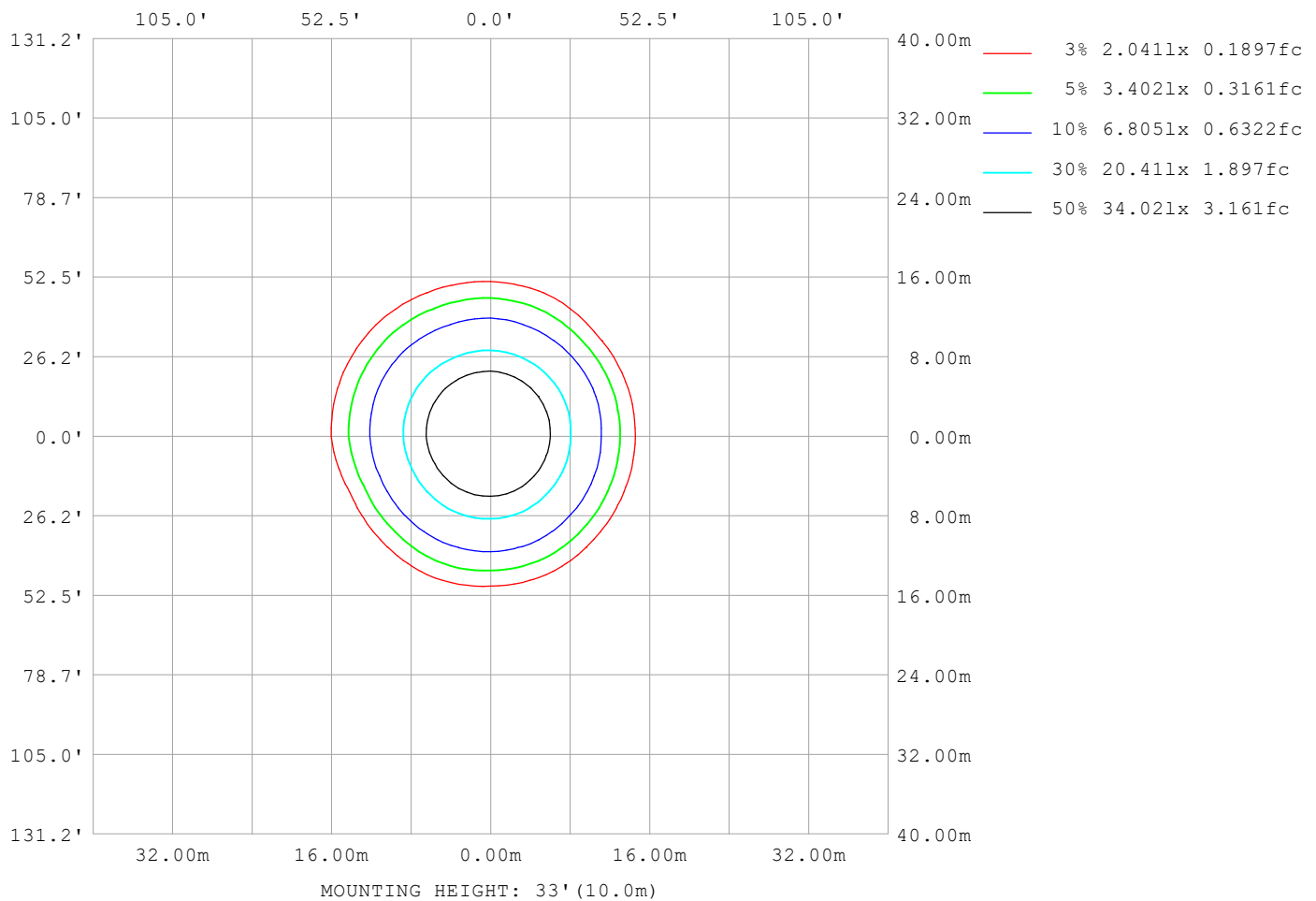
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
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:230.13V I:0.405A P:84.86W PF:0.910 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13376x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/LOW		
MFR.: SOTEN		

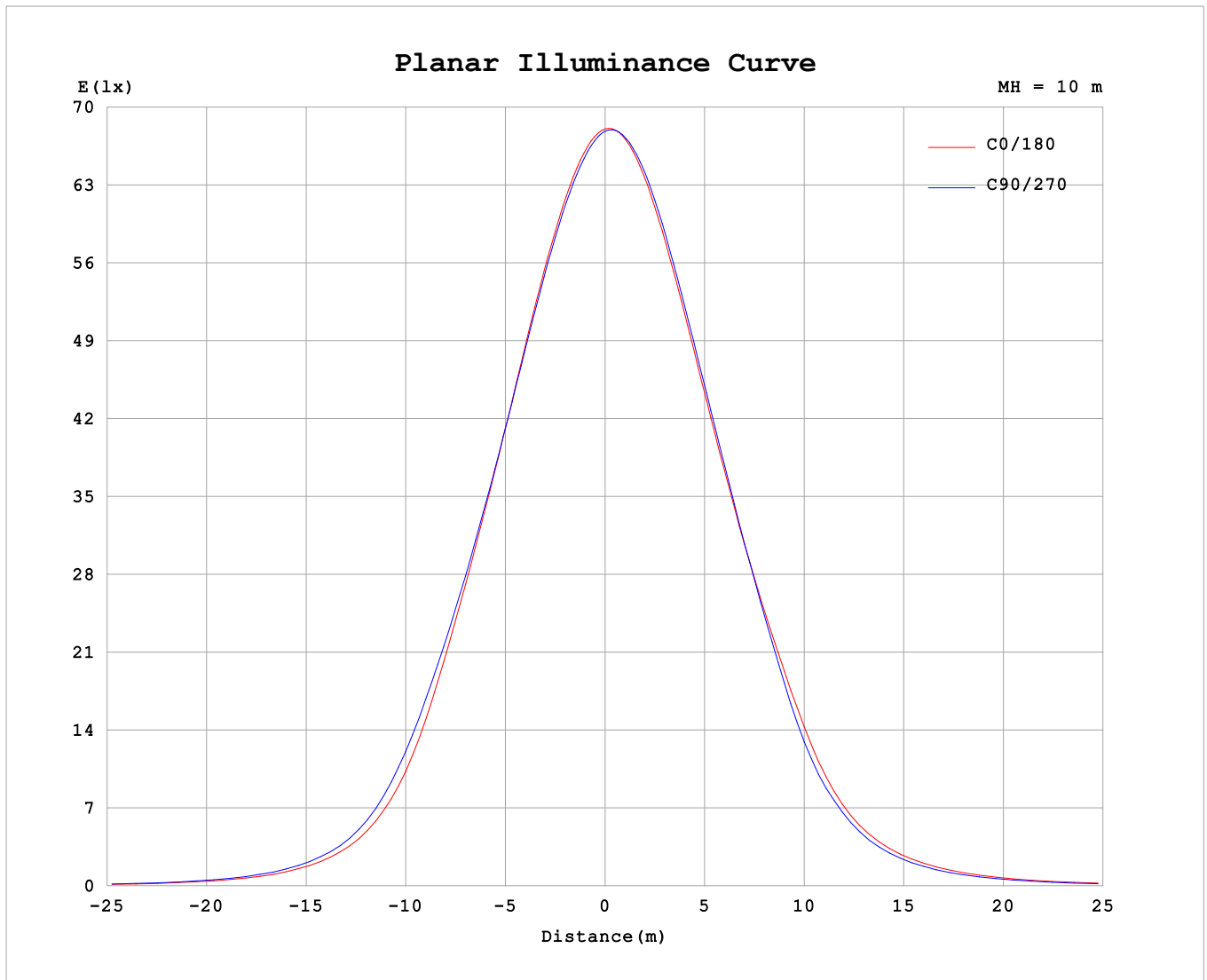
AvgL	cd/m2
L_0~180 (65) av	146405
L_0~180 (75) av	73590
L_0~180 (85) av	15739
L_90~270 (65) av	142147
L_90~270 (75) av	71449
L_90~270 (85) av	11812
L_45 (65) av	143112
L_45 (75) av	71599
L_45 (85) av	12134

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:

```