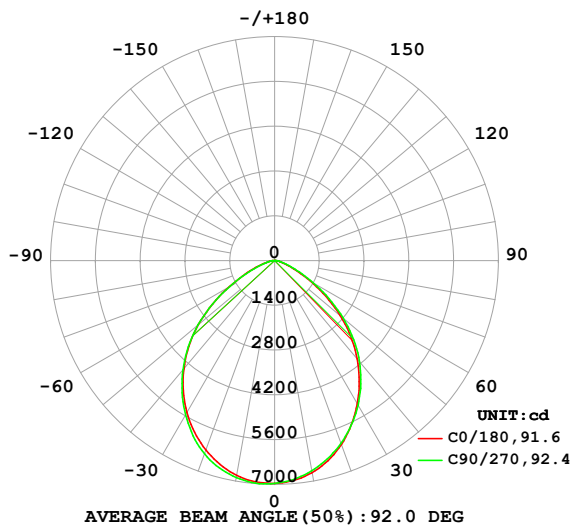


LUMINAIRE PHOTOMETRIC TEST REPORT

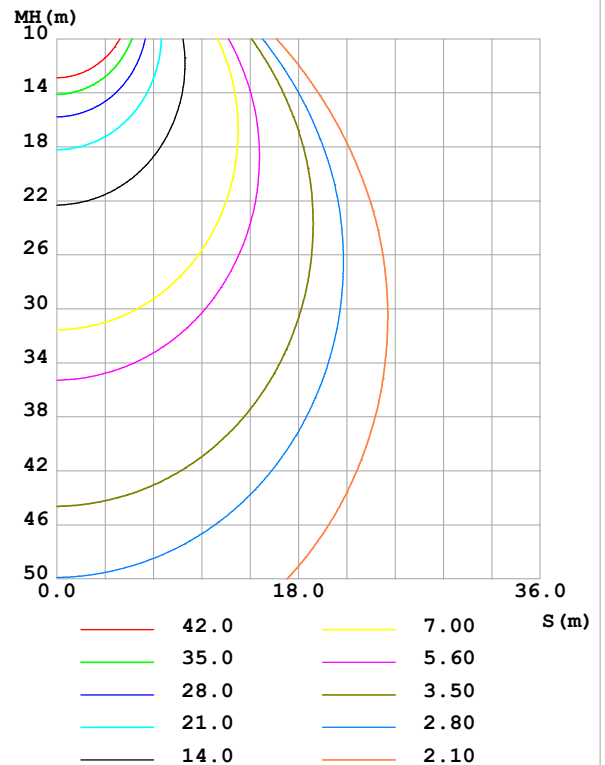
Test:U:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.07 lm/W			
MODEL	2835	I _{max} (cd)	6991	S/MH(C0/180)	1.18
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	14359	η UP,DN(C0-180)	0.0,48.5
NOMINAL FLUX(lm)	14359.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 28 °C
Operators: Li
Test Date: 2025-12-20

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	6733	6686	6676	6722	6819	6898	6886	6805	0- 10	656.0	656.0	4.57, 4.57
20	6115	6062	6077	6134	6293	6453	6427	6246	10- 20	1843	2499	17.4, 17.4
30	5174	5159	5221	5297	5482	5625	5569	5328	20- 30	2678	5177	36.1, 36.1
40	4020	4057	4131	4224	4415	4529	4457	4171	30- 40	3016	8193	57.1, 57.1
50	2678	2721	2795	2926	3108	3225	3123	2820	40- 50	2787	10979	76.5, 76.5
60	1297	1314	1407	1580	1639	1711	1627	1438	50- 60	1993	12973	90.3, 90.3
70	425.5	464.3	496.2	651.9	607.8	622.8	544.0	516.4	60- 70	983.5	13956	97.2, 97.2
80	135.1	136.0	151.7	180.0	170.7	166.8	157.8	155.3	70- 80	326.7	14283	99.5, 99.5
90	9.579	9.641	9.172	9.099	9.009	8.130	7.600	8.244	80- 90	76.53	14359	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): 9652 lm

%lum = 67.2%

%lamp = 67.2%

Conical surface Flux(130deg): 13575 lm

%lum = 94.5%

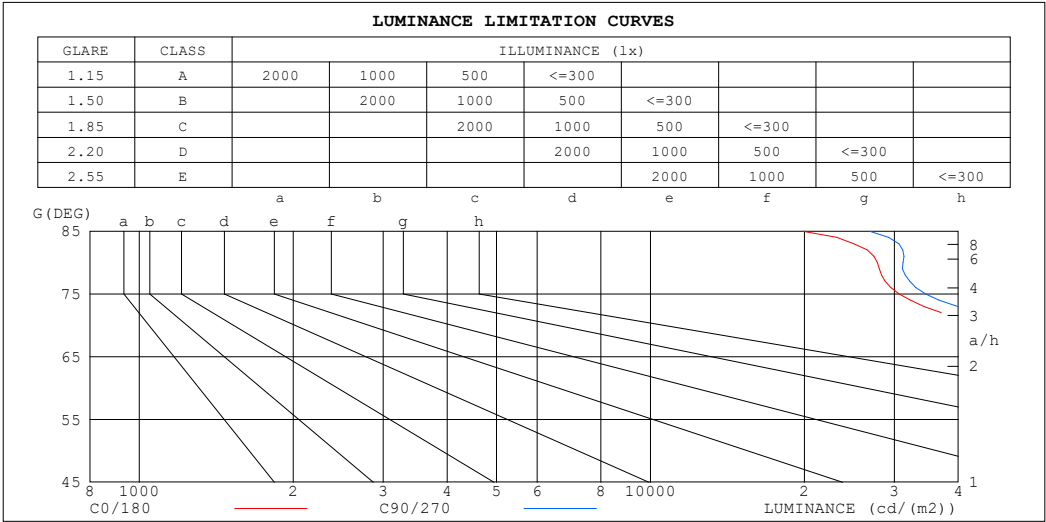
%lamp = 94.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	19864	26834
80	27806	31196
75	30670	34543
70	44477	51813
65	63767	71910
60	92772	100459
55	122780	129576
50	148934	155280
45	170848	176667

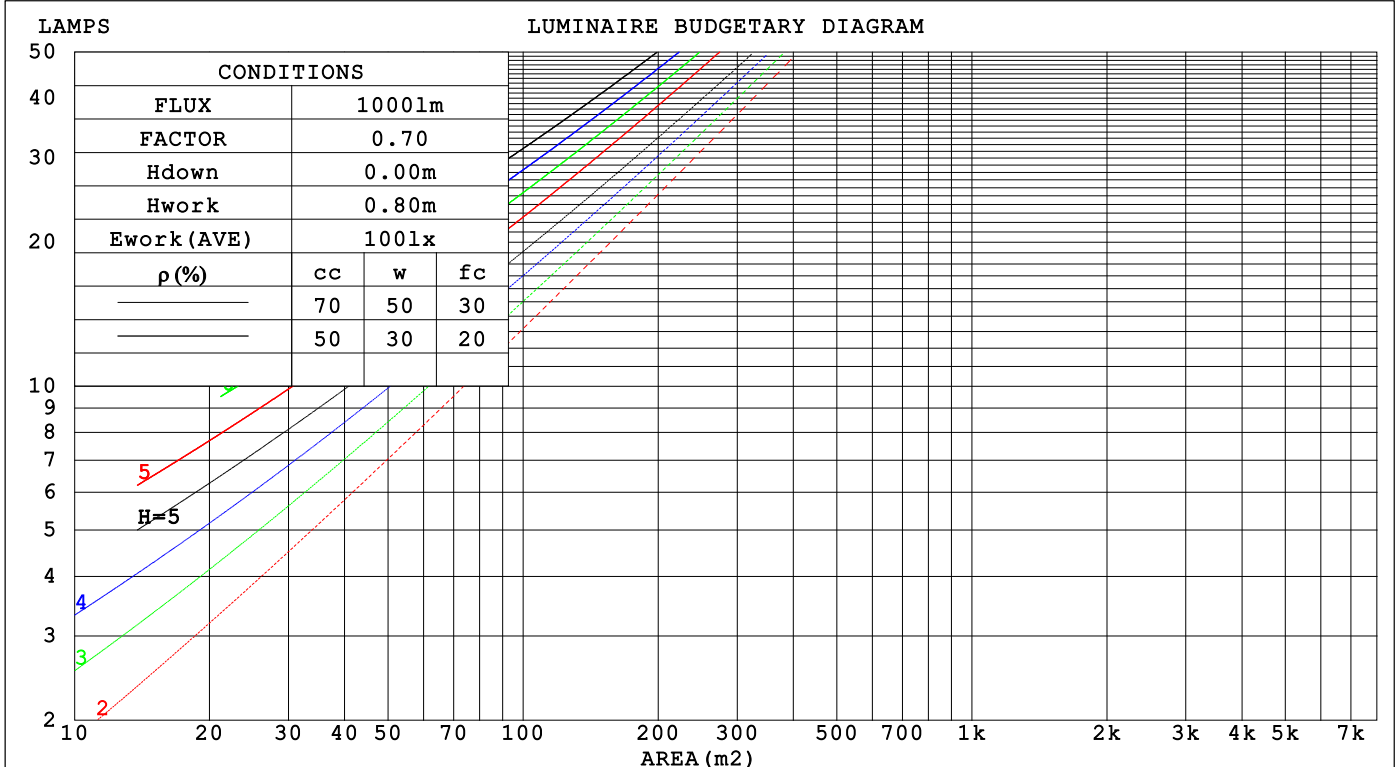
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28℃
Operators:Li
Test Date:2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
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			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	1.07	1.03	1.00	1.05	1.01	.99	1.01	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.74	.70	.76	.72	.68	.66
4.0	.77	.69	.63	.75	.68	.63	.73	.67	.62	.71	.65	.61	.69	.64	.60	.58
5.0	.69	.61	.55	.68	.61	.55	.66	.60	.54	.64	.58	.54	.63	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.59	.53	.48	.57	.52	.48	.46
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.39	.52	.45	.39	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.34
10.0	.45	.38	.33	.45	.37	.33	.44	.37	.32	.43	.37	.32	.42	.36	.32	.31



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28℃
Operators:Li
Test Date:2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
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	.252	.143	.045	.245	.140	.044	.232	.133	.042	.220	.127	.041	.209	.121	.039															
2.0	.244	.134	.041	.238	.131	.040	.227	.126	.039	.217	.122	.038	.207	.117	.037															
3.0	.232	.123	.037	.227	.121	.037	.217	.117	.036	.208	.114	.035	.199	.110	.034															
4.0	.218	.113	.033	.214	.112	.033	.205	.109	.032	.197	.106	.032	.189	.103	.031															
5.0	.205	.105	.030	.201	.103	.030	.193	.101	.030	.186	.098	.029	.179	.096	.029															
6.0	.193	.097	.028	.189	.096	.028	.182	.093	.027	.176	.091	.027	.170	.089	.027															
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025															
8.0	.171	.084	.023	.168	.083	.023	.163	.081	.023	.157	.080	.023	.153	.078	.023															
9.0	.162	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021															
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.070	.020	.138	.069	.020															

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	.176	.157	.139	.151	.134	.120	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.092	.068	.048	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm										
NAME: H1004P-90D										
SPEC.: PHILIPS/HIGH										
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	28.7	30.0	28.9	30.2	30.4	29.0	30.4	29.3	30.6	30.8
3H	28.9	30.2	29.2	30.4	30.6	29.4	30.6	29.7	30.8	31.1
4H	28.9	30.1	29.2	30.4	30.6	29.4	30.6	29.7	30.8	31.1
6H	28.9	30.0	29.2	30.3	30.6	29.4	30.5	29.7	30.8	31.0
8H	28.9	30.0	29.2	30.2	30.5	29.4	30.5	29.7	30.7	31.0
12H	28.9	29.9	29.2	30.2	30.5	29.4	30.4	29.7	30.7	31.0
4H 2H	28.8	30.0	29.1	30.3	30.5	29.2	30.3	29.5	30.6	30.8
3H	29.2	30.2	29.5	30.5	30.8	29.6	30.6	29.9	30.9	31.2
4H	29.2	30.2	29.6	30.5	30.8	29.7	30.6	30.1	30.9	31.2
6H	29.3	30.1	29.7	30.4	30.8	29.7	30.5	30.1	30.9	31.2
8H	29.3	30.0	29.7	30.4	30.8	29.7	30.5	30.1	30.9	31.2
12H	29.3	30.0	29.7	30.3	30.7	29.7	30.4	30.2	30.8	31.2
8H 4H	29.2	30.0	29.6	30.3	30.7	29.6	30.4	30.0	30.7	31.1
6H	29.3	29.9	29.7	30.3	30.7	29.7	30.3	30.2	30.7	31.2
8H	29.3	29.9	29.8	30.3	30.7	29.8	30.3	30.2	30.7	31.2
12H	29.3	29.8	29.8	30.3	30.7	29.8	30.3	30.3	30.7	31.2
12H 4H	29.2	29.9	29.6	30.2	30.6	29.6	30.3	30.0	30.7	31.1
6H	29.3	29.8	29.7	30.2	30.7	29.7	30.2	30.2	30.7	31.1
8H	29.3	29.8	29.8	30.2	30.7	29.8	30.2	30.2	30.7	31.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.9					+ 0.6 / - 0.8				
1.5H	+ 0.4 / - 0.4					+ 0.3 / - 0.4				
2.0H	+ 1.4 / - 2.0					+ 1.3 / - 1.8				

CIE Pub.117, 14359 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.3$)
 Area: 0.028 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

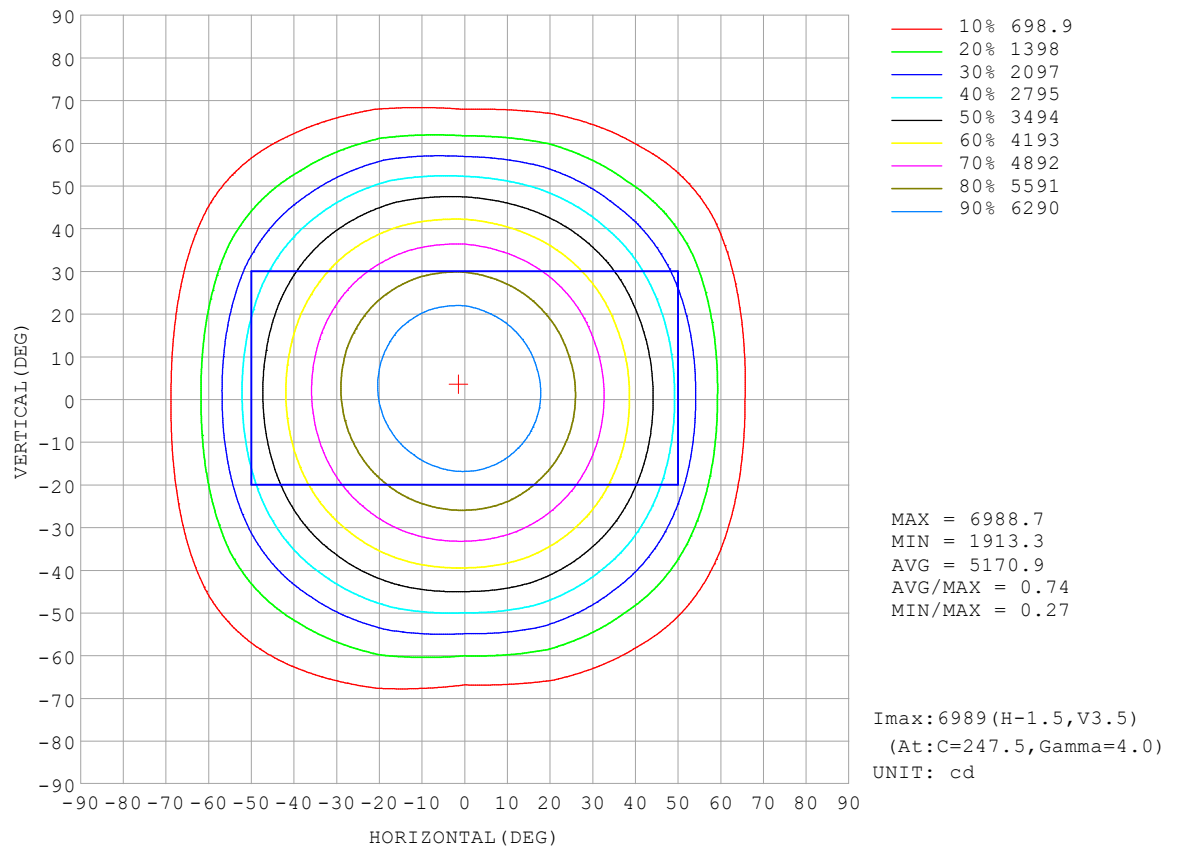
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	64	54	48	63	53	47	42
0.80	75	64	58	74	64	58	72	63	57	51
1.00	83	74	67	82	73	67	80	74	66	60
1.25	90	81	75	88	80	75	86	79	74	67
1.50	94	86	80	93	85	80	90	84	79	72
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	90
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: MEDIUM
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

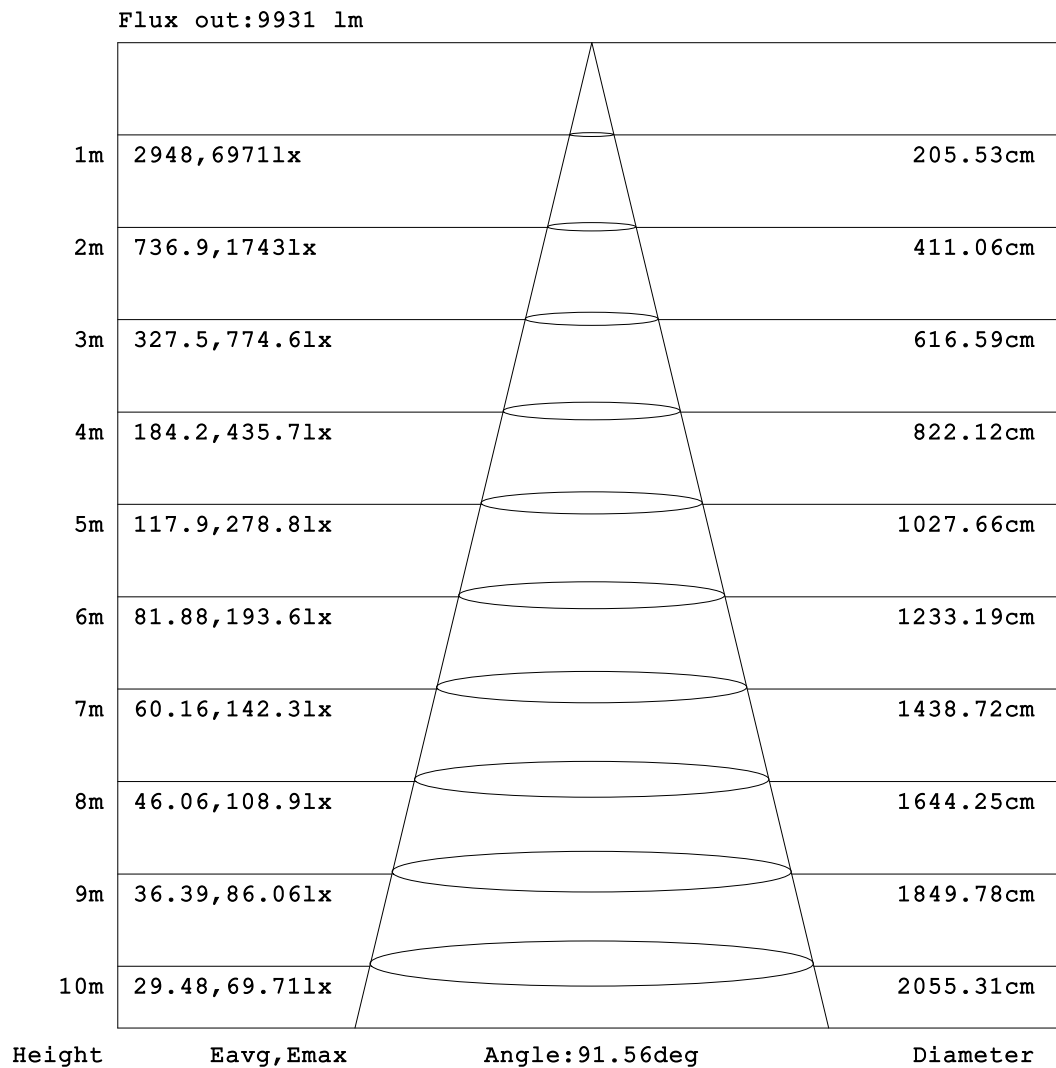


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28℃
Operators:Li
Test Date:2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		



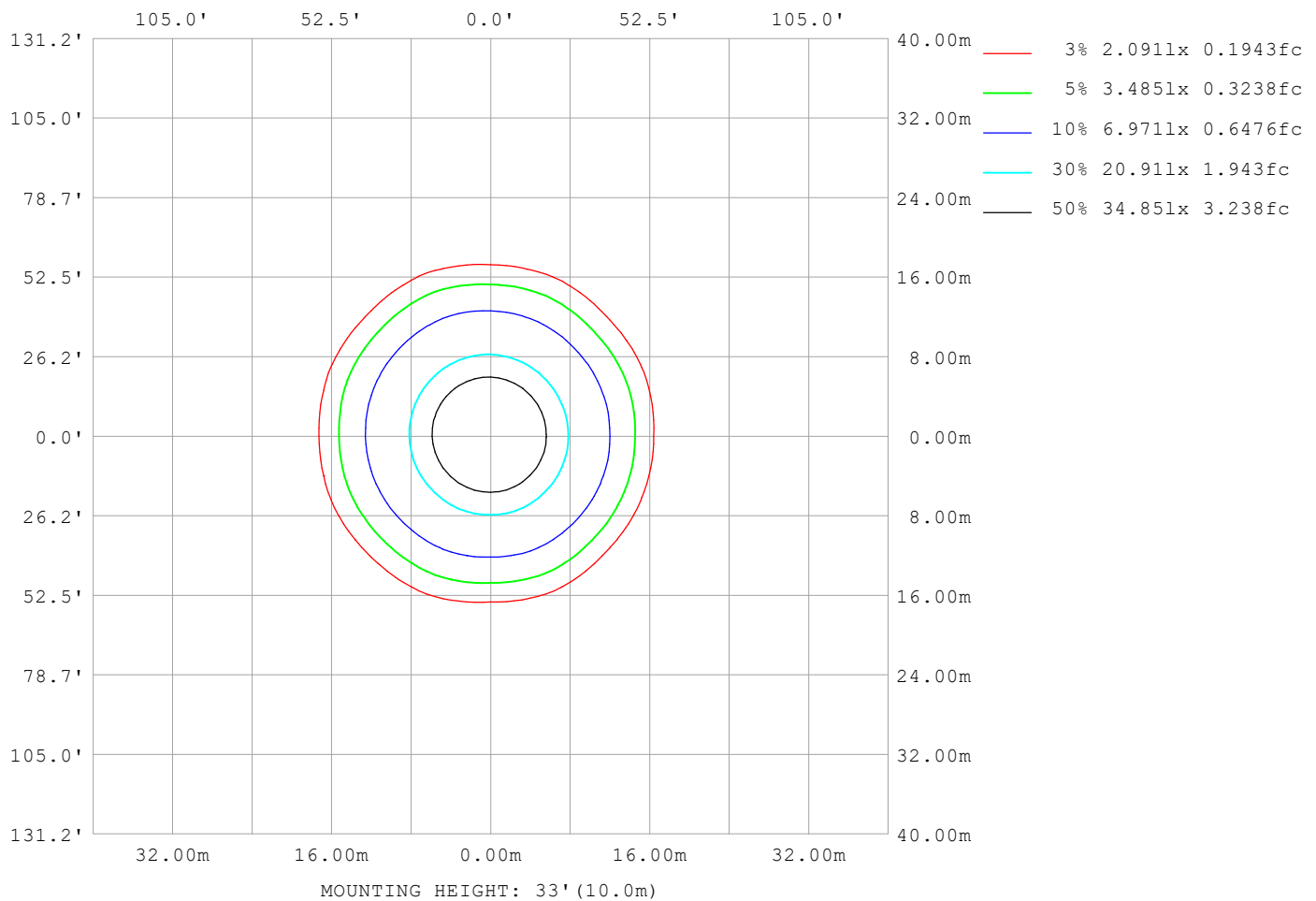
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-12-20

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:230.01V I:0.554A P:122.66W PF:0.963 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14359.3x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

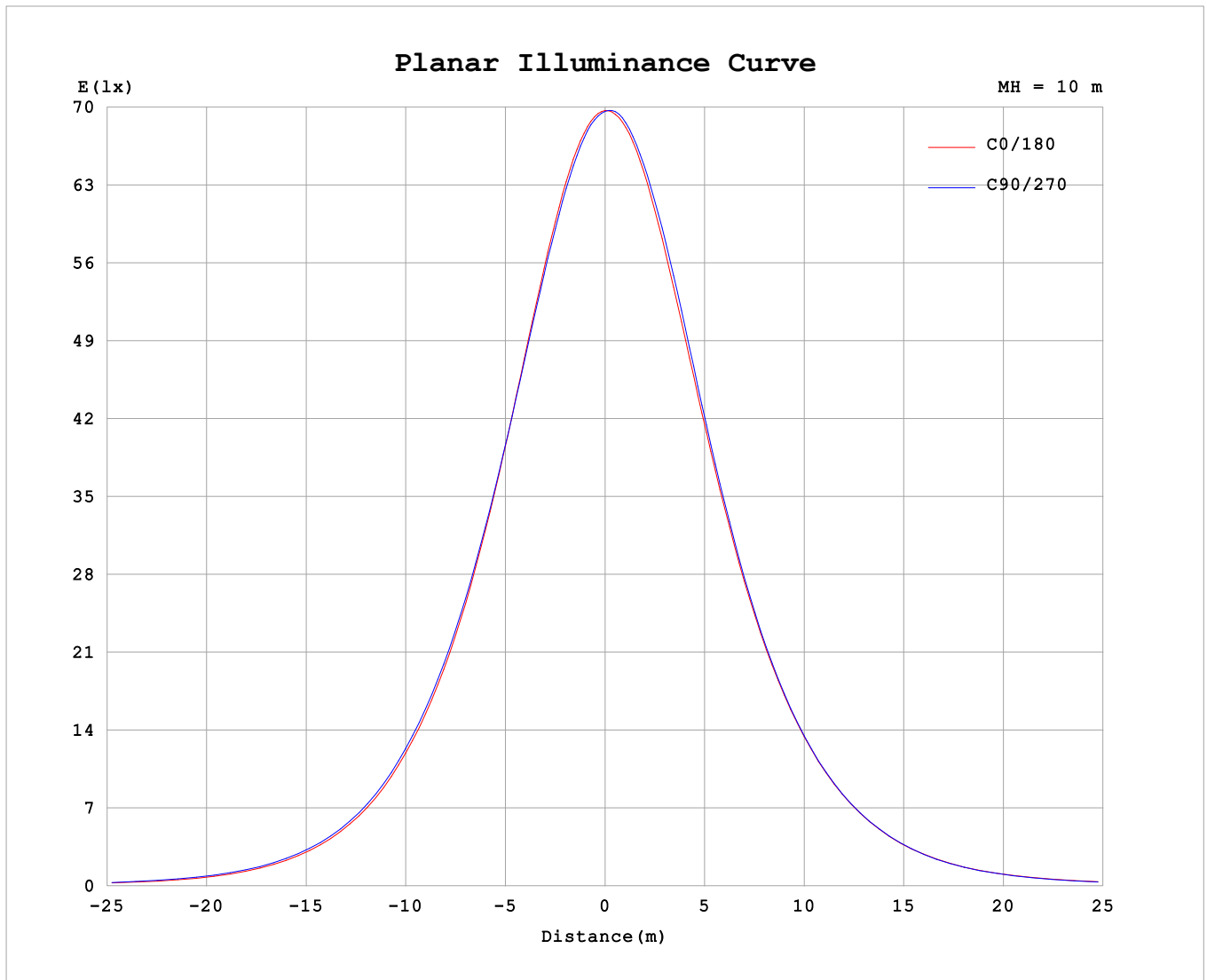
AvgL	cd/m2
L_0~180 (65) av	75317
L_0~180 (75) av	36818
L_0~180 (85) av	27899
L_90~270 (65) av	78123
L_90~270 (75) av	36515
L_90~270 (85) av	26710
L_45 (65) av	80989
L_45 (75) av	39794
L_45 (85) av	27736

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-12-20

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: MEDIUM
Temperature: 28°C
Operators: Li
Test Date: 2025-12-20

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:

```