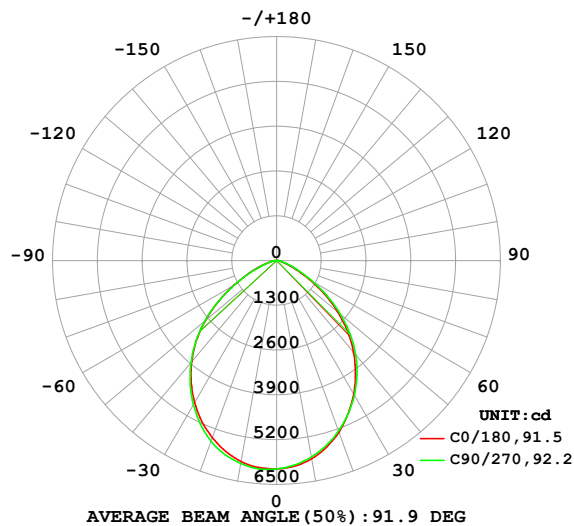


LUMINAIRE PHOTOMETRIC TEST REPORT

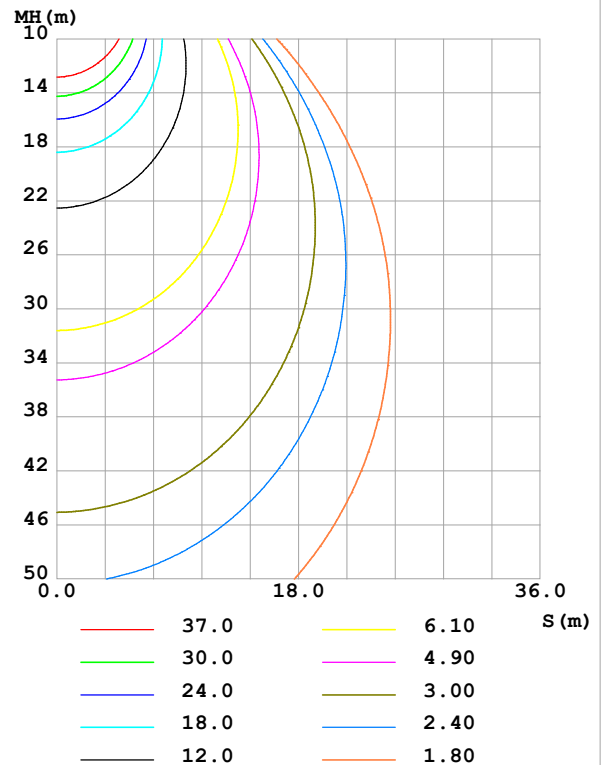
Test:U:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.77 lm/W			
MODEL	2835	I _{max} (cd)	6073	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)	12444	η UP, DN (C0-180)	0.0, 48.5
NOMINAL FLUX (lm)	12443.6	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	5843	5799	5792	5835	5923	5995	5983	5909	0- 10	569.7	569.7	4.58, 4.58
20	5297	5248	5265	5321	5467	5605	5579	5413	10- 20	1599	2169	17.4, 17.4
30	4479	4465	4518	4591	4761	4885	4834	4616	20- 30	2322	4491	36.1, 36.1
40	3480	3508	3572	3660	3838	3936	3870	3612	30- 40	2614	7105	57.1, 57.1
50	2311	2343	2409	2533	2703	2803	2711	2439	40- 50	2415	9520	76.5, 76.5
60	1107	1124	1210	1369	1428	1491	1410	1236	50- 60	1724	11243	90.4, 90.4
70	361.9	397.2	427.6	566.9	531.0	544.5	471.9	443.2	60- 70	850.2	12094	97.2, 97.2
80	115.4	116.8	131.1	157.2	148.7	147.1	137.6	134.1	70- 80	283.3	12377	99.5, 99.5
90	8.308	8.388	7.939	7.929	7.980	7.208	6.588	7.137	80- 90	66.59	12444	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): 8369.8 lm

%lum = 67.3%

%lamp = 67.3%

Conical surface Flux(130deg): 11764 lm

%lum = 94.5%

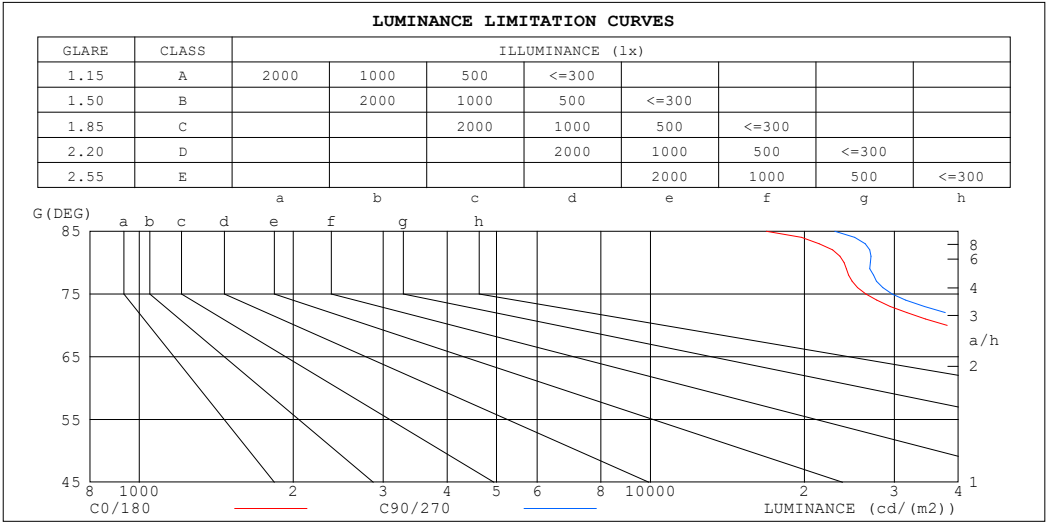
%lamp = 94.5%

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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16848	22937
80	23919	26908
75	26397	29720
70	38086	44572
65	54903	61864
60	79692	86277
55	106186	111376
50	129381	133620
45	148711	152309

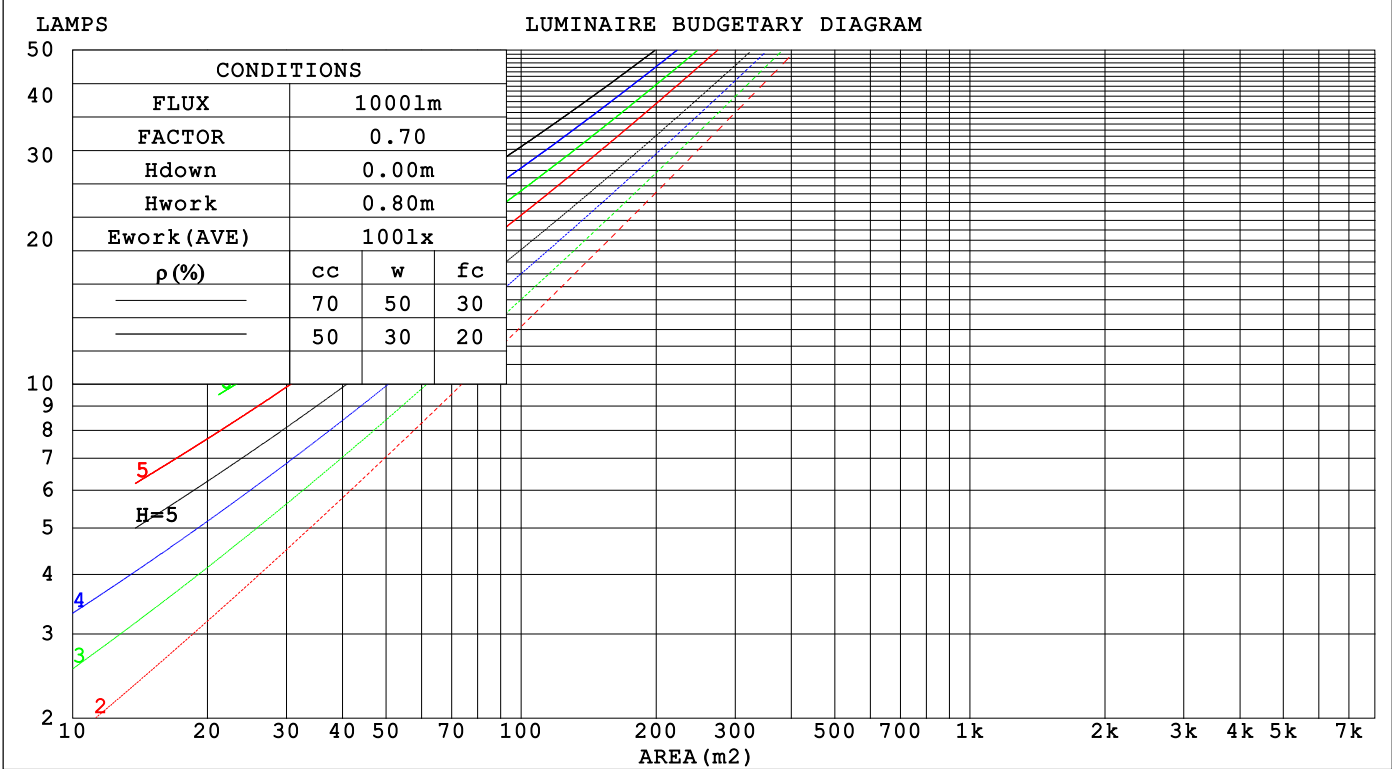
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28℃
Operators:Li
Test Date:2025-12-20

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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
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															



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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
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	.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	.207	.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	.027	.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	.152	.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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm										
NAME: H1004P-90D										
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	28.2	29.5	28.4	29.7	29.9	28.5	29.9	28.8	30.1	30.2
3H	28.4	29.6	28.7	29.9	30.1	28.8	30.1	29.1	30.3	30.5
4H	28.4	29.6	28.7	29.8	30.1	28.9	30.0	29.2	30.3	30.5
6H	28.4	29.5	28.7	29.8	30.0	28.9	30.0	29.2	30.2	30.5
8H	28.4	29.4	28.7	29.7	30.0	28.9	29.9	29.2	30.2	30.5
12H	28.4	29.4	28.7	29.7	30.0	28.8	29.9	29.2	30.1	30.4
4H 2H	28.3	29.5	28.6	29.7	30.0	28.6	29.8	28.9	30.0	30.3
3H	28.7	29.7	29.0	30.0	30.3	29.1	30.1	29.4	30.4	30.7
4H	28.7	29.6	29.1	29.9	30.3	29.1	30.1	29.5	30.4	30.7
6H	28.7	29.6	29.1	29.9	30.3	29.2	30.0	29.6	30.3	30.7
8H	28.8	29.5	29.2	29.9	30.2	29.2	30.0	29.6	30.3	30.7
12H	28.7	29.4	29.2	29.8	30.2	29.2	29.9	29.6	30.3	30.7
8H 4H	28.7	29.4	29.1	29.8	30.2	29.1	29.8	29.5	30.2	30.6
6H	28.8	29.4	29.2	29.8	30.2	29.2	29.8	29.6	30.2	30.6
8H	28.8	29.3	29.3	29.8	30.2	29.2	29.8	29.7	30.2	30.6
12H	28.8	29.3	29.3	29.7	30.2	29.3	29.7	29.7	30.2	30.6
12H 4H	28.6	29.3	29.1	29.7	30.1	29.1	29.7	29.5	30.1	30.5
6H	28.7	29.3	29.2	29.7	30.2	29.2	29.7	29.6	30.1	30.6
8H	28.8	29.3	29.3	29.7	30.2	29.2	29.7	29.7	30.1	30.6
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, 12444 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 8.8)
 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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

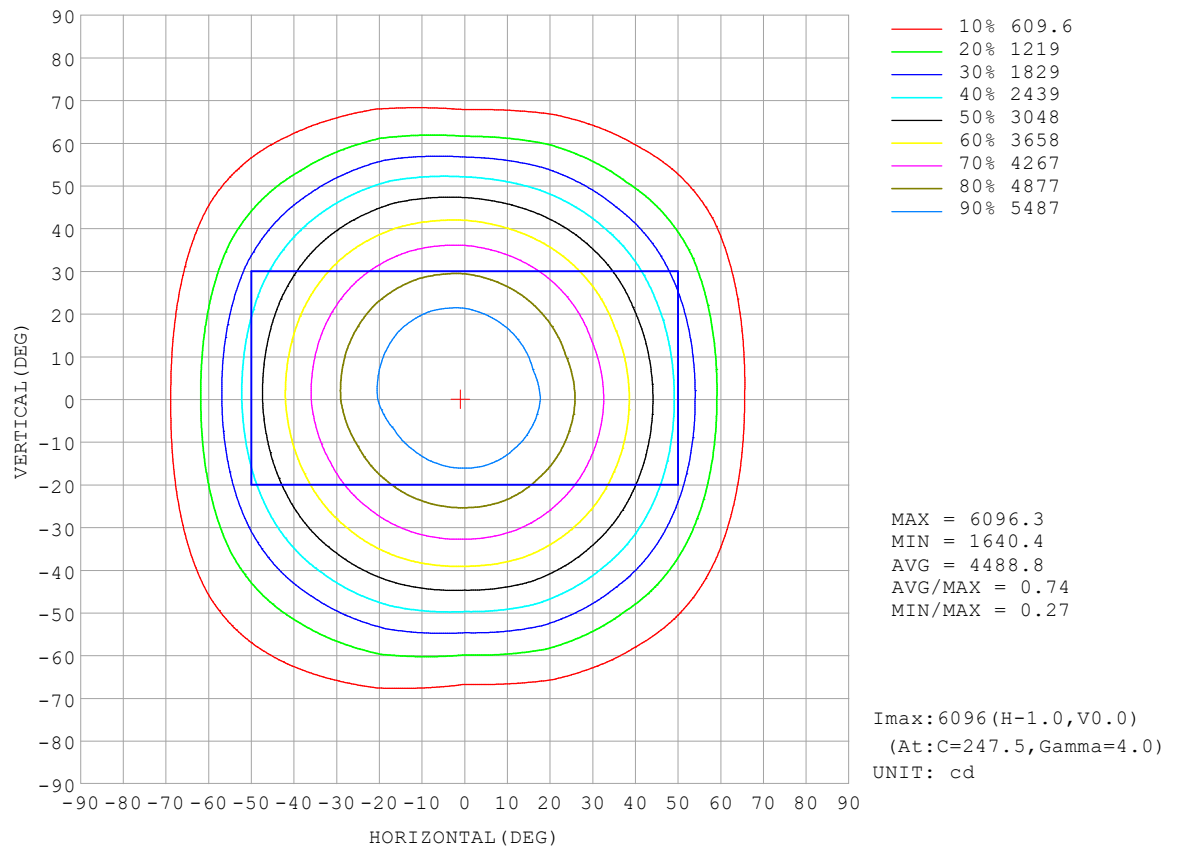
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	64	54	48	63	53	47	42
0.80	75	64	58	74	64	58	72	63	58	51
1.00	83	74	67	82	73	67	80	74	67	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	96	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	91
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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

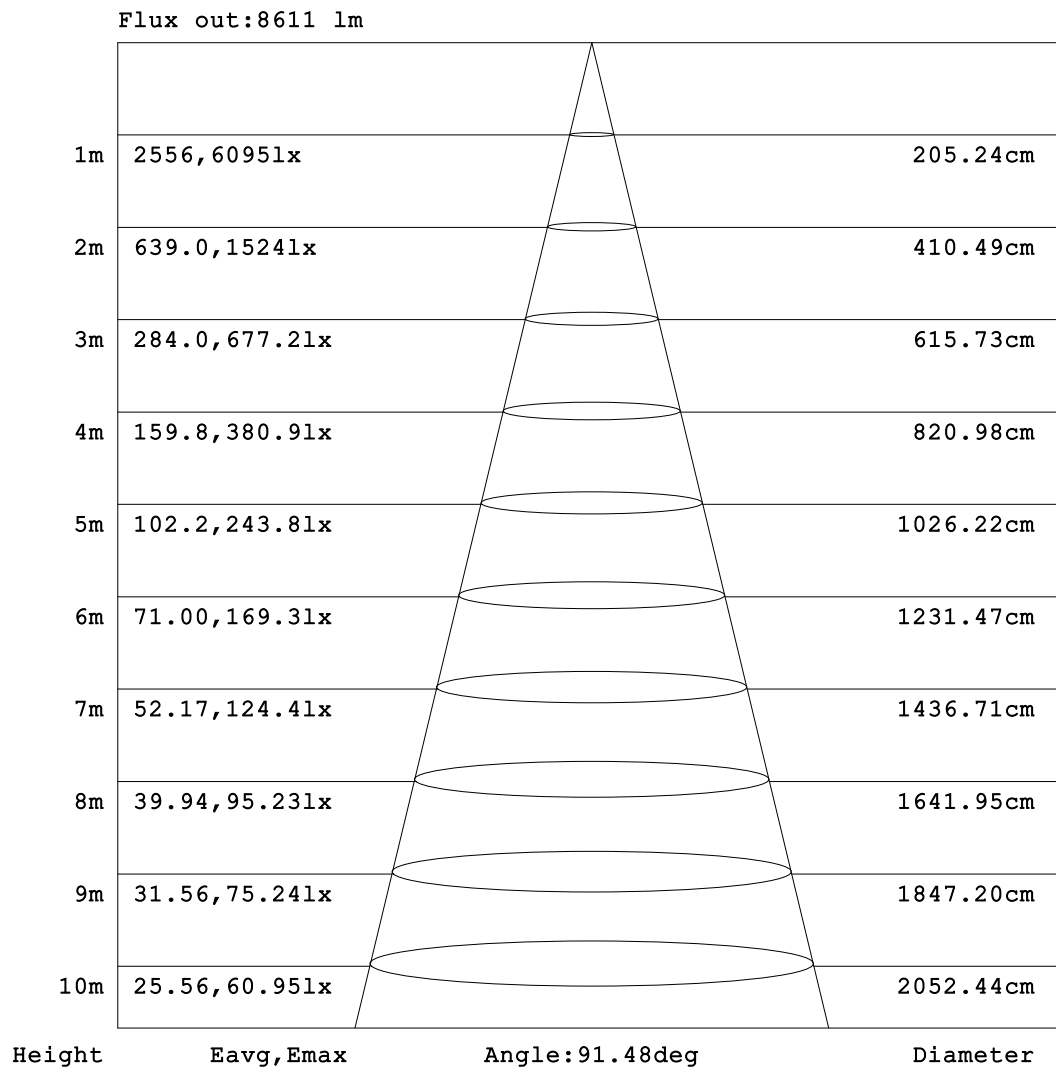


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-12-20

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:

AAI Figure

Test:U:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		



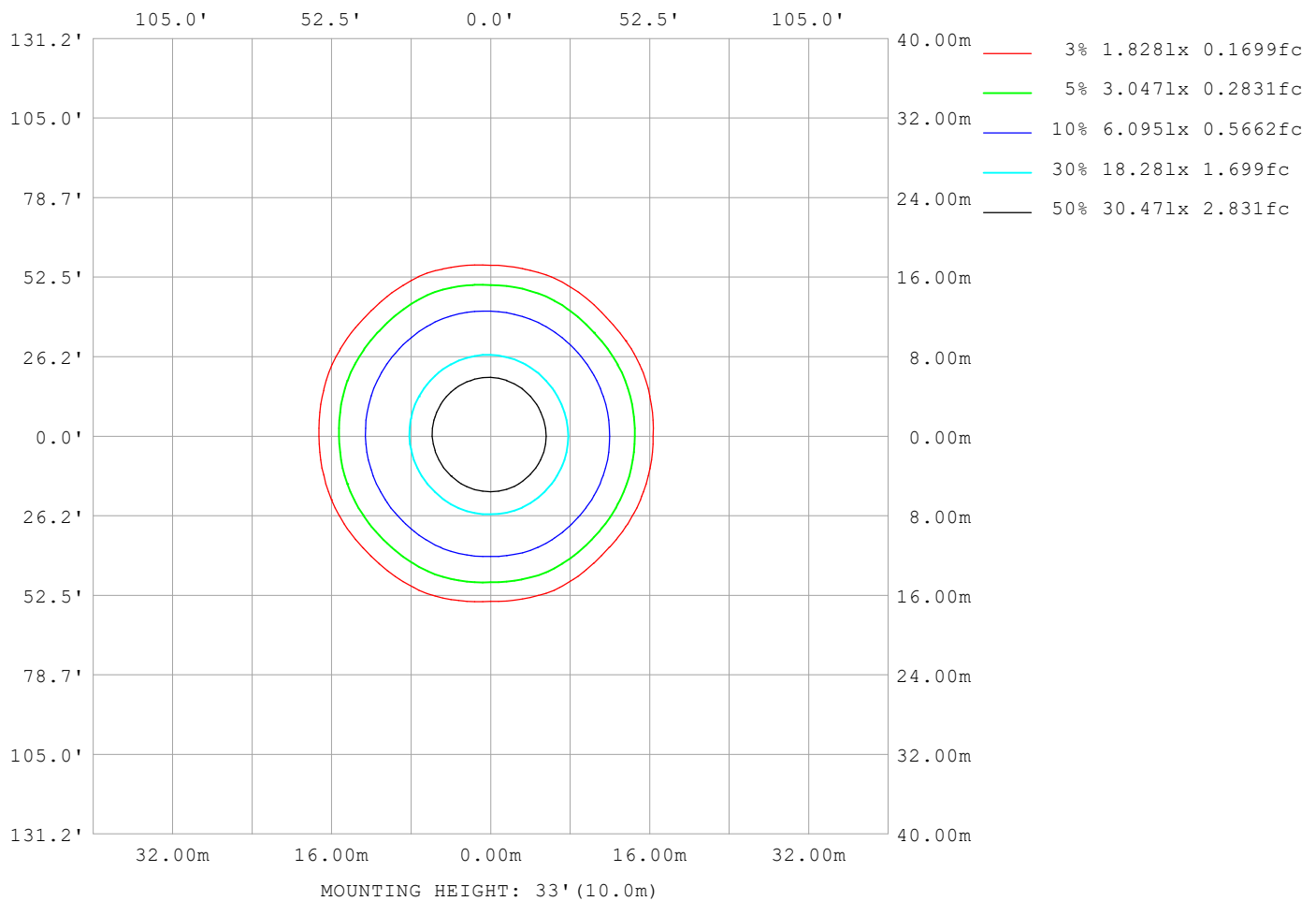
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
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:230.08V I:0.447A P:97.39W PF:0.947 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12443.6x1 lm		
NAME: H1004P-90D		
SPEC.: PHILIPS/MID		
MFR.: SOTEN		

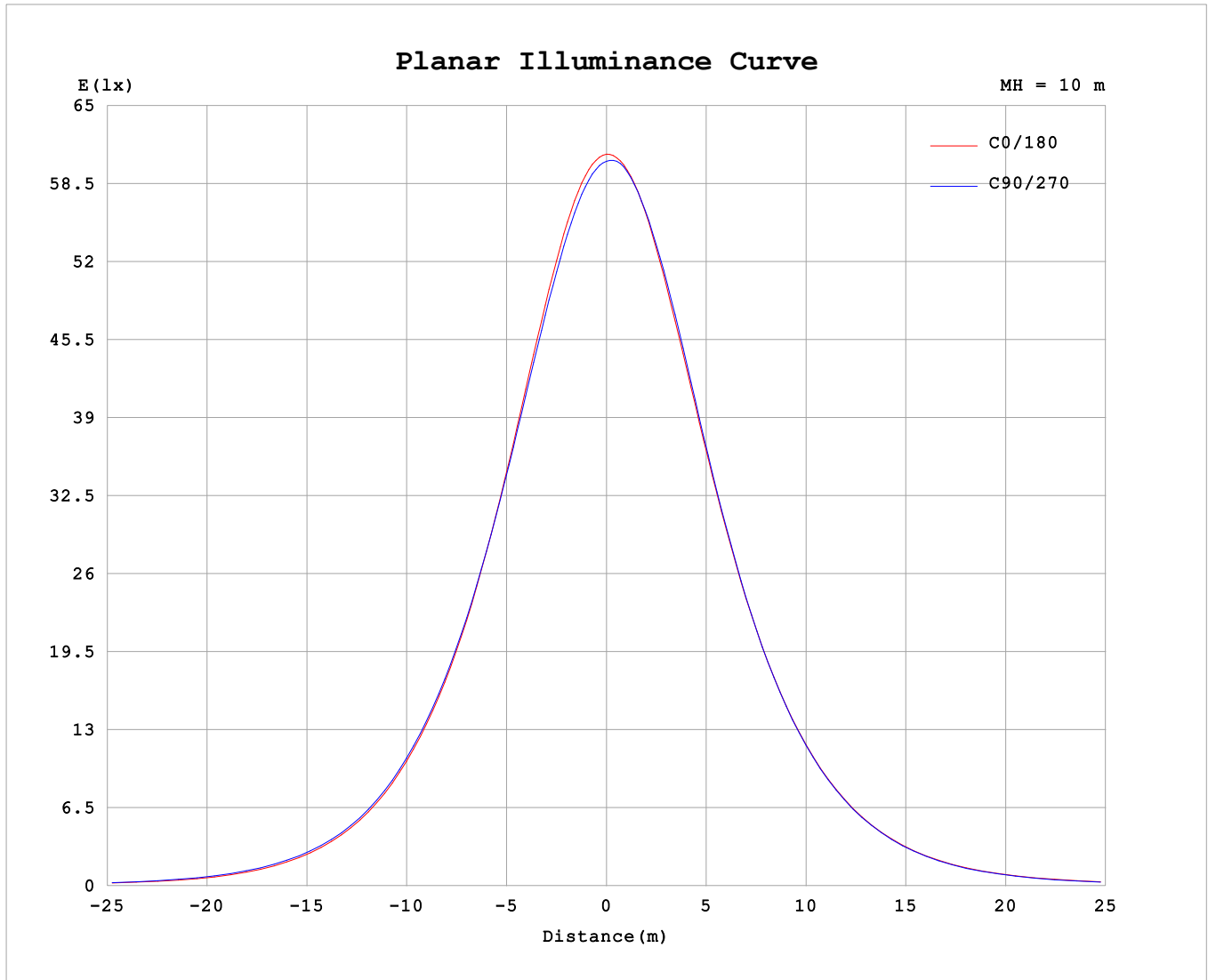
AvgL	cd/m2
L_0~180 (65) av	65134
L_0~180 (75) av	31622
L_0~180 (85) av	24190
L_90~270 (65) av	67599
L_90~270 (75) av	31613
L_90~270 (85) av	23228
L_45 (65) av	69998
L_45 (75) av	34592
L_45 (85) av	24143

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:

```