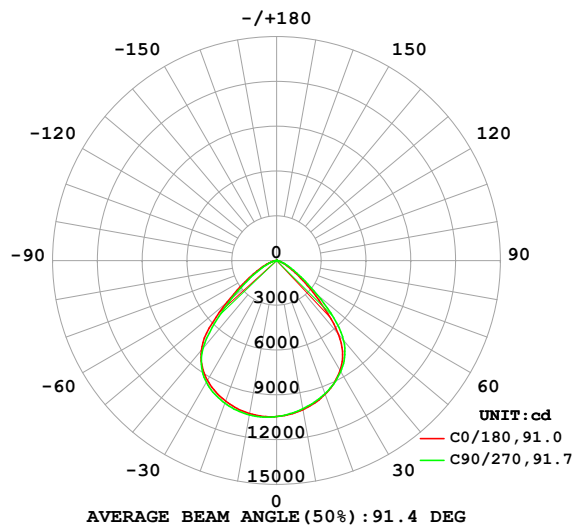


LUMINAIRE PHOTOMETRIC TEST REPORT

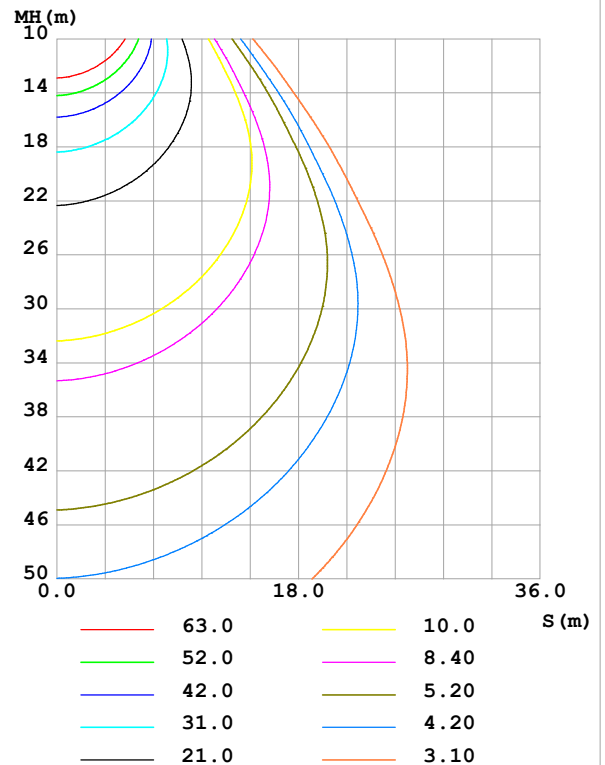
Test:U:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.84 lm/W			
MODEL	2835	I _{max} (cd)	10543	S/MH (C0/180)	1.31
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	20863	η UP, DN (C0-180)	0.0, 47.8
NOMINAL FLUX (lm)	20862.6	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	1014	1006	1009	1020	1041	1052	1050	1035	0- 10	989.7	989.7	4.74, 4.74
20	953.2	941.9	949.1	967.4	1001	1020	1016	990.0	10- 20	2846	3836	18.4, 18.4
30	850.8	844.4	859.3	882.9	927.5	951.1	942.4	904.8	20- 30	4345	8181	39.2, 39.2
40	644.6	664.5	699.3	730.5	786.5	798.7	767.9	716.7	30- 40	5148	13330	63.9, 63.9
50	295.6	320.4	357.1	373.3	434.3	435.0	392.5	338.2	40- 50	4235	17564	84.2, 84.2
60	110.6	118.3	132.0	142.5	179.8	177.8	152.3	122.7	50- 60	2110	19674	94.3, 94.3
70	36.45	39.95	45.19	51.22	64.21	63.66	52.63	41.24	60- 70	873.0	20547	98.5, 98.5
80	4.621	7.180	9.913	11.62	15.95	14.17	9.268	6.386	70- 80	284.4	20831	99.8, 99.8
90	1.148	1.108	0.9853	0.8532	0.7024	0.7206	0.8076	0.8476	80- 90	31.30	20863	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:X10cd									UNIT:lm		

Conical surface Flux(90deg): 15718 lm

%lum = 75.3%

%lamp = 75.3%

Conical surface Flux(130deg): 20214 lm

%lum = 96.9%

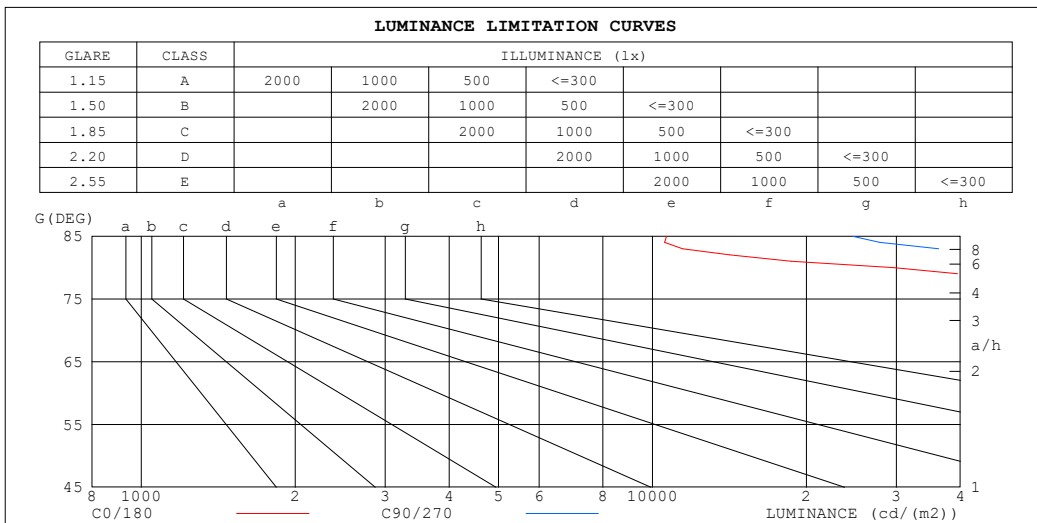
%lamp = 96.9%

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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10653	24639
80	29656	63405
75	73432	103331
70	118752	146749
65	170571	207114
60	246426	293108
55	352931	421606
50	512435	617015
45	718280	851544

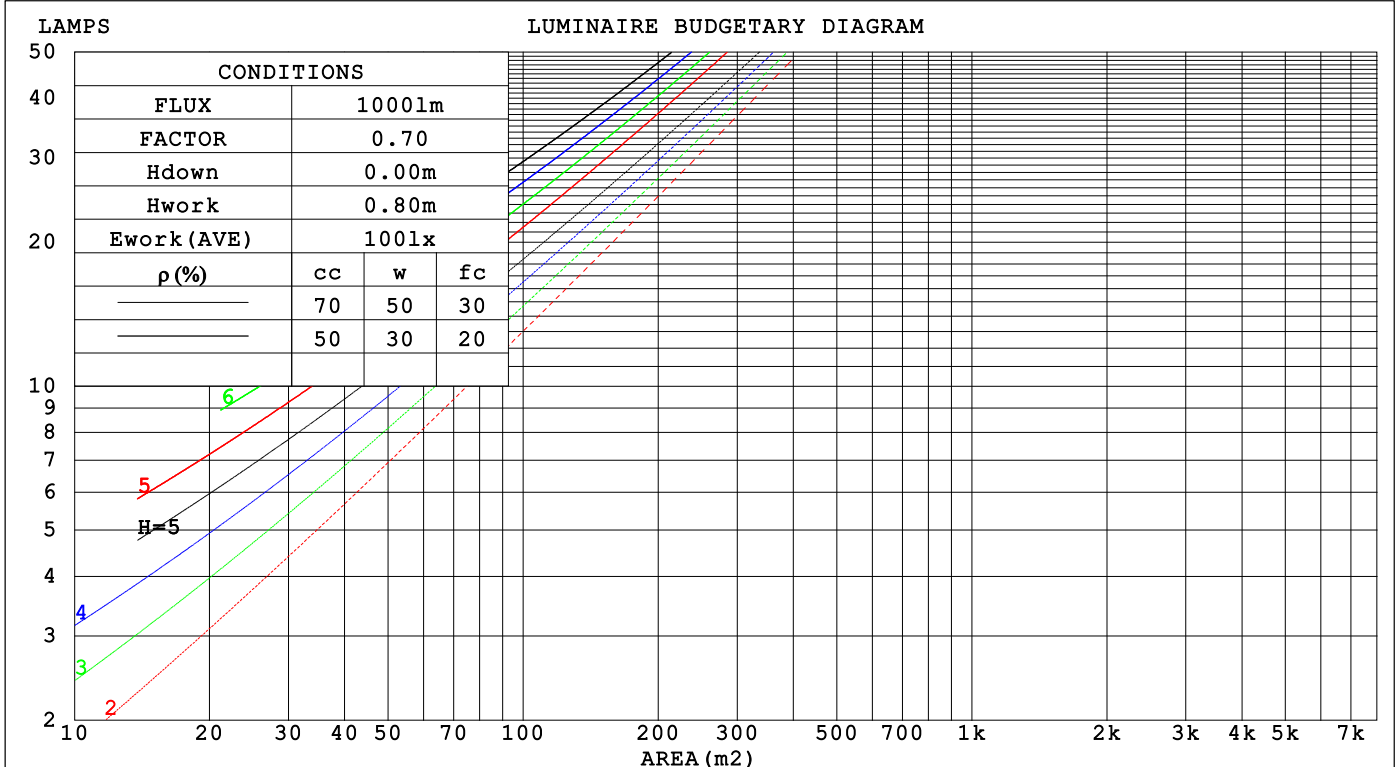
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-12-24

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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
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			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	.66	.78	.71	.66	.76	.70	.65	.74	.68	.64	.72	.67	.64	.62
5.0	.72	.64	.59	.71	.64	.58	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6.0	.66	.58	.52	.65	.58	.52	.63	.57	.52	.62	.56	.51	.60	.55	.51	.49
7.0	.60	.52	.47	.59	.52	.47	.58	.51	.47	.57	.51	.46	.55	.50	.46	.44
8.0	.55	.48	.43	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.43	.39	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
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	.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	.212	.113	.034	.202	.109	.033	.193	.106	.032	.185	.102	.032		
4.0	.206	.107	.031	.201	.105	.031	.192	.102	.030	.185	.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	.174	.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	.081	.023	.162	.080	.023	.157	.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	.138	.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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm										
NAME: H1002P										
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	24.5	25.8	24.7	26.0	26.2	25.2	26.5	25.4	26.6	26.8
3H	24.5	25.7	24.8	25.9	26.2	25.3	26.4	25.6	26.7	26.9
4H	24.5	25.6	24.8	25.8	26.1	25.3	26.4	25.6	26.6	26.8
6H	24.4	25.5	24.7	25.7	26.0	25.2	26.2	25.5	26.5	26.8
8H	24.4	25.4	24.7	25.6	25.9	25.2	26.2	25.5	26.4	26.7
12H	24.3	25.3	24.7	25.6	25.8	25.1	26.1	25.4	26.3	26.6
4H 2H	24.5	25.6	24.8	25.8	26.1	25.1	26.2	25.4	26.5	26.7
3H	24.6	25.6	24.9	25.8	26.1	25.3	26.2	25.6	26.5	26.8
4H	24.6	25.4	24.9	25.8	26.1	25.3	26.2	25.7	26.5	26.8
6H	24.5	25.3	24.9	25.6	26.0	25.3	26.0	25.7	26.4	26.7
8H	24.5	25.2	24.9	25.5	25.9	25.2	25.9	25.6	26.3	26.7
12H	24.4	25.1	24.9	25.4	25.8	25.2	25.8	25.6	26.2	26.6
8H 4H	24.5	25.2	24.9	25.6	25.9	25.2	25.9	25.6	26.3	26.6
6H	24.5	25.0	24.9	25.4	25.8	25.2	25.8	25.6	26.2	26.6
8H	24.4	24.9	24.9	25.3	25.8	25.2	25.7	25.6	26.1	26.5
12H	24.4	24.8	24.8	25.2	25.7	25.1	25.6	25.6	26.0	26.5
12H 4H	24.5	25.1	24.9	25.5	25.9	25.2	25.8	25.6	26.2	26.6
6H	24.4	24.9	24.9	25.3	25.8	25.2	25.7	25.6	26.1	26.5
8H	24.4	24.8	24.8	25.2	25.7	25.1	25.6	25.6	26.0	26.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.6 / - 2.6					+ 1.5 / - 2.1				
1.5H	+ 1.3 / - 1.8					+ 1.0 / - 1.8				
2.0H	+ 3.2 / - 3.2					+ 3.3 / - 3.2				

CIE Pub.117, 20863 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 10.6)
 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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

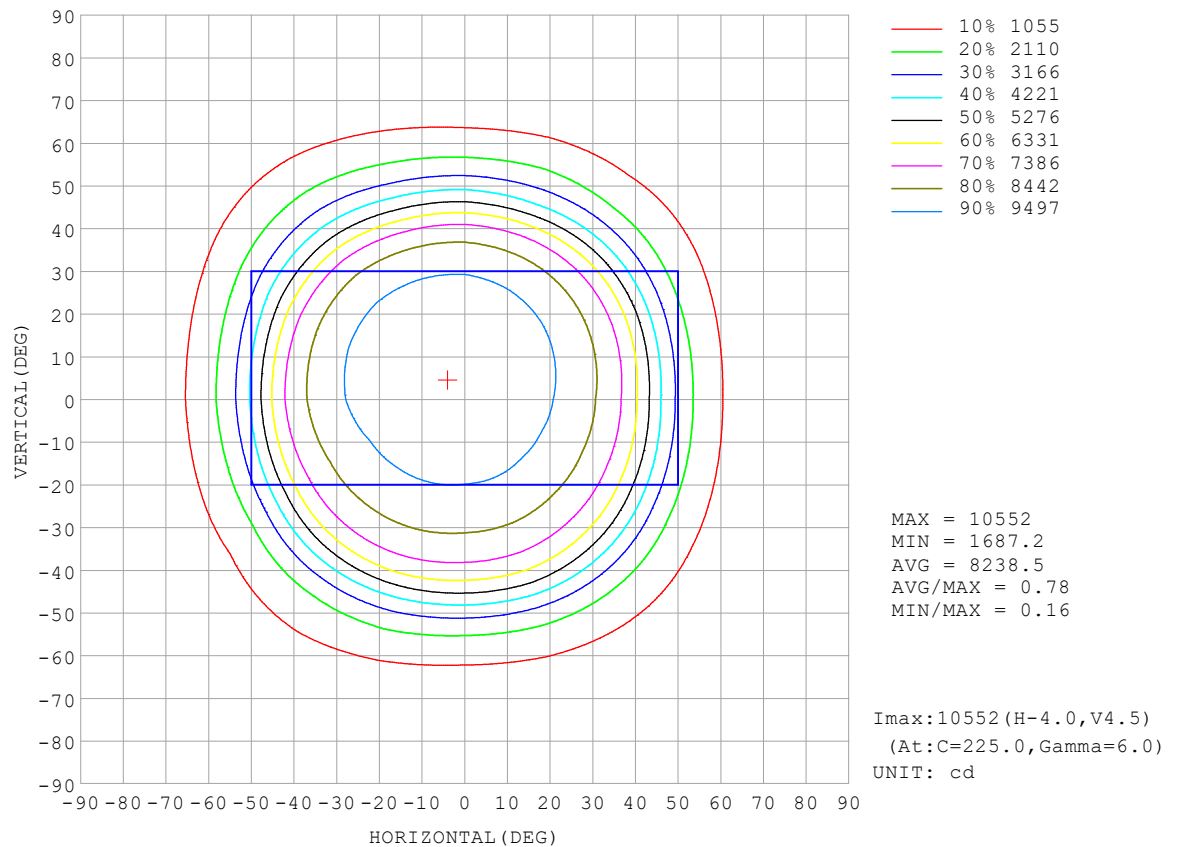
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	47
0.80	79	69	63	78	69	63	76	68	63	57
1.00	87	78	72	85	77	72	84	78	71	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	84	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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

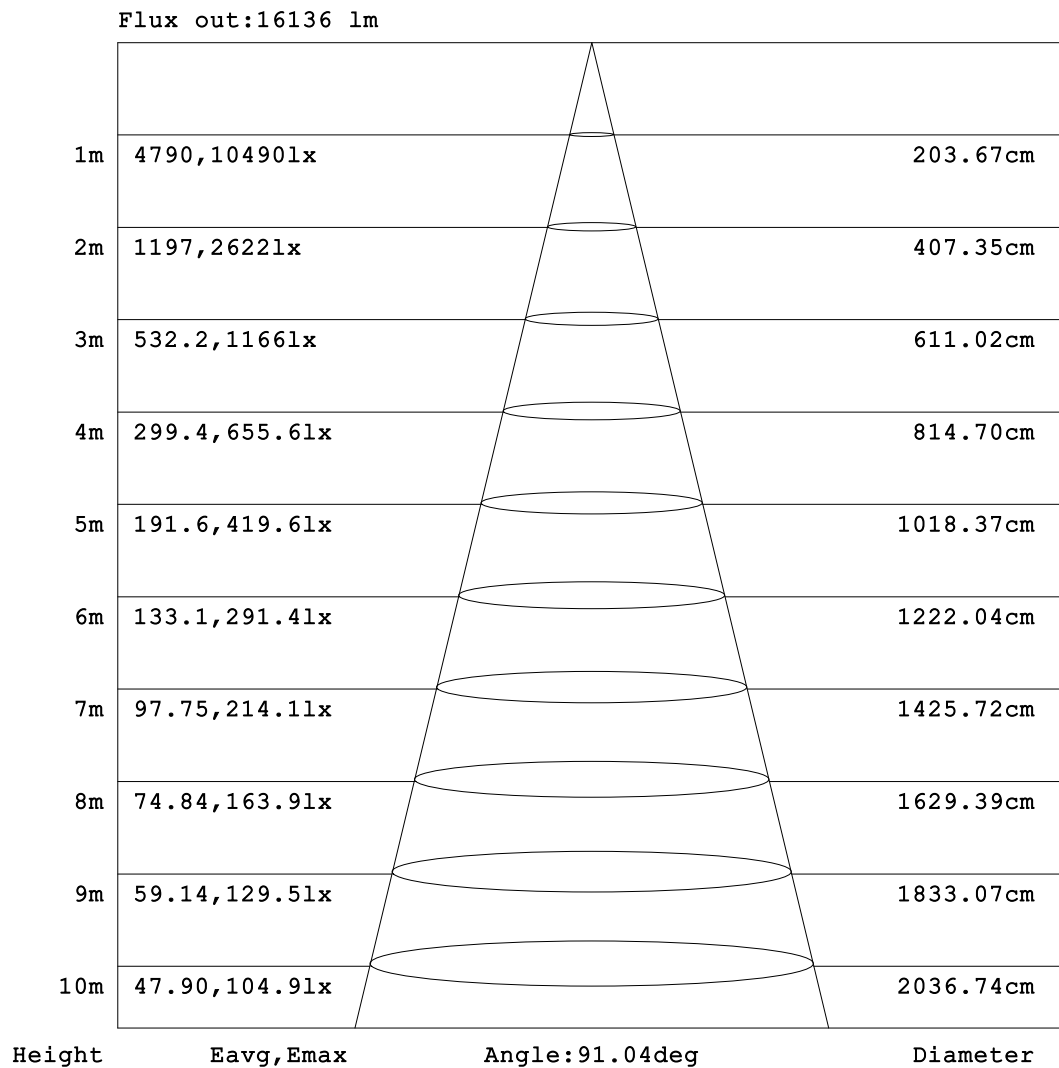


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-12-24

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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		



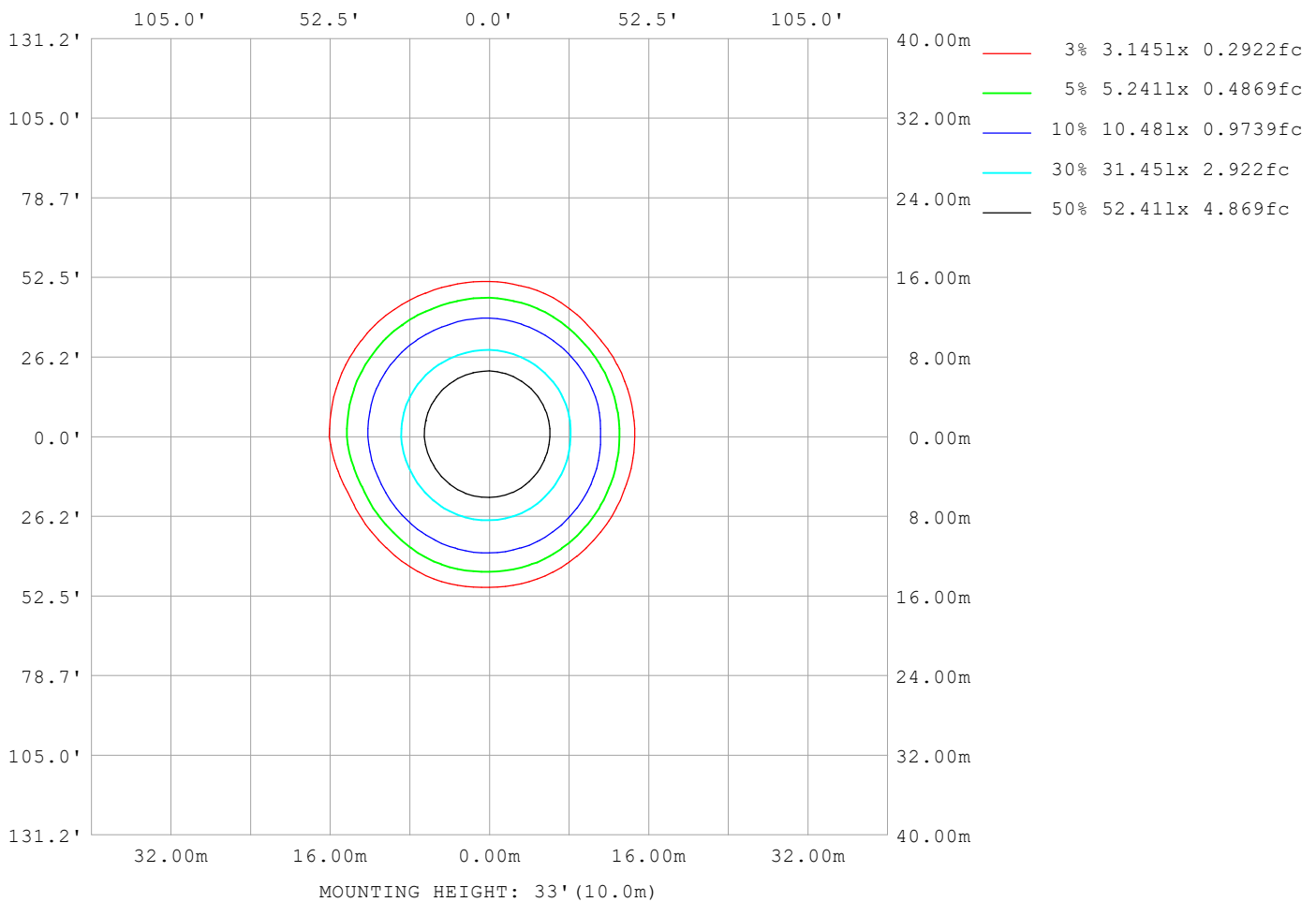
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
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:229.94V I:0.661A P:146.06W PF:0.961 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20862.6x1 lm		
NAME: H1002P		
SPEC.: PHILIPS/HIGH		
MFR.: SOTEN		

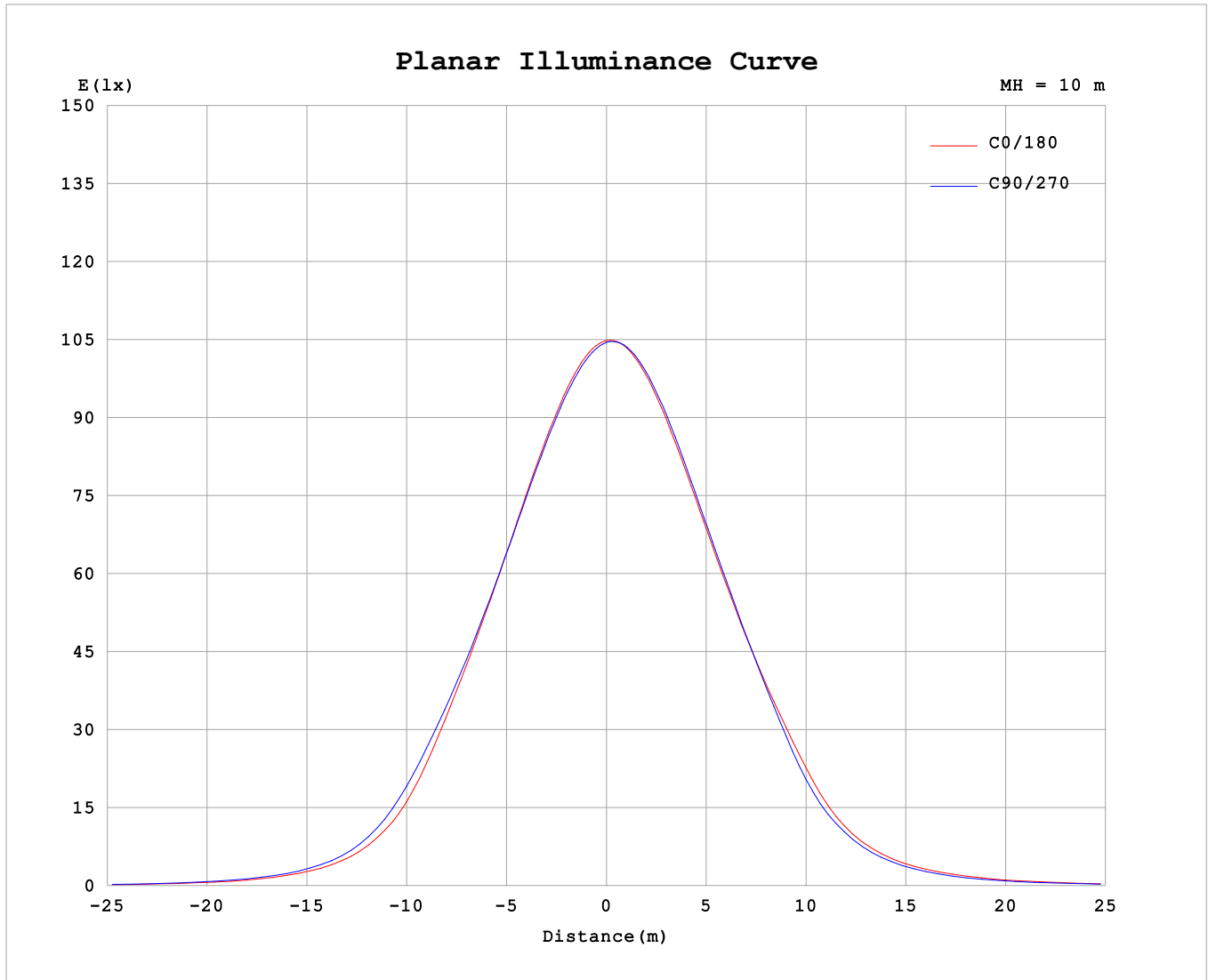
AvgL	cd/m2
L_0~180 (65) av	229621
L_0~180 (75) av	113644
L_0~180 (85) av	23182
L_90~270 (65) av	223075
L_90~270 (75) av	110553
L_90~270 (85) av	17894
L_45 (65) av	223106
L_45 (75) av	110252
L_45 (85) av	18018

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:

```

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