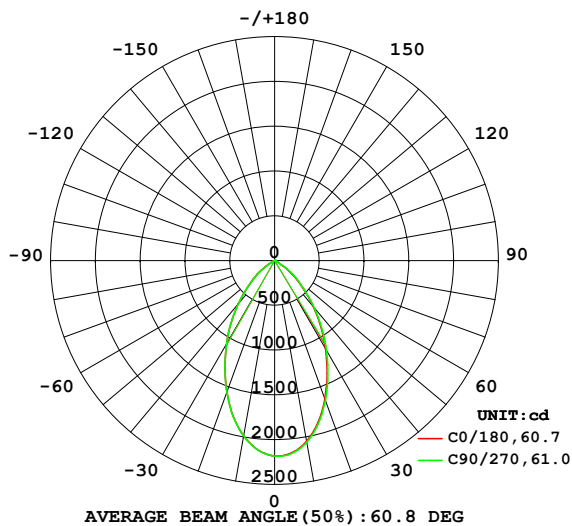


LUMINAIRE PHOTOMETRIC TEST REPORT

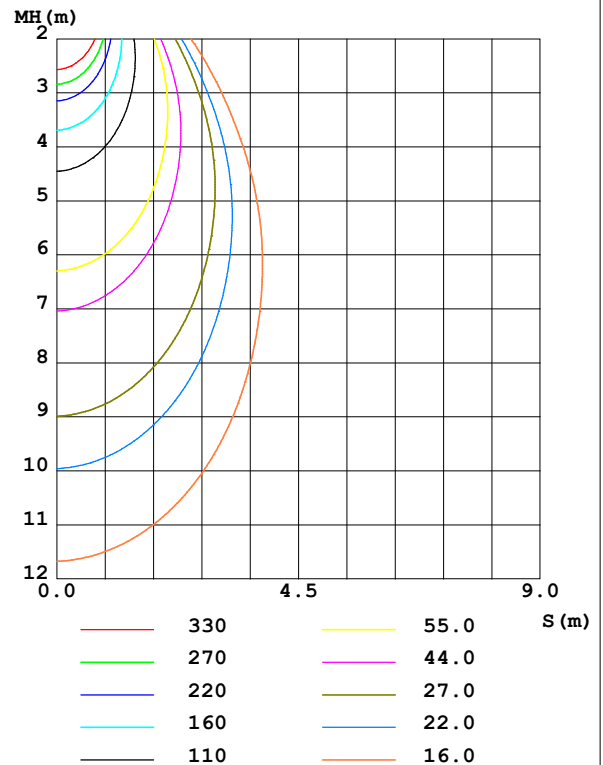
Test:U:230.02V I:0.0884A P:20W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 0017440235 4000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120 lm/W			
MODEL		I _{max} (cd)	2186	S/MH(C0/180)	0.90
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.91
RATED VOLTAGE(V)		TOTAL FLUX(lm)	2400	η UP,DN(C0-180)	0.0,48.7
NOMINAL FLUX(lm)	2400	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)		η down (%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: Testing Room
 Test Date: 2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [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	1989	1972	1991	2017	2051	2072	2061	2033	0- 10	200.7	200.7	8.36,8.36
20	1562	1539	1564	1592	1643	1673	1661	1624	10- 20	512.5	713.3	29.7,29.7
30	1077	1058	1078	1092	1139	1160	1159	1123	20- 30	621.3	1335	55.6,55.6
40	633.8	616.2	632.1	640.8	675.2	690.9	692.4	660.2	30- 40	546.2	1881	78.4,78.4
50	295.9	278.0	282.6	288.4	308.6	318.5	327.2	310.6	40- 50	355.1	2236	93.2,93.2
60	37.01	32.82	28.78	34.54	41.44	46.53	40.52	41.55	50- 60	145.2	2381	99.2,99.2
70	4.397	4.392	4.503	4.572	4.616	4.526	4.409	4.421	60- 70	13.02	2394	99.7,99.7
80	3.116	3.116	3.236	3.278	3.268	3.079	3.036	3.016	70- 80	3.937	2398	99.9,99.9
90	0.1969	0.1758	0.1617	0.1688	0.1477	0.1406	0.1195	0.1266	80- 90	2.231	2400	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): 2084.5 lm

%lum = 86.8%

%lamp = 86.8%

Conical surface Flux(120deg): 2381 lm

%lum = 99.2%

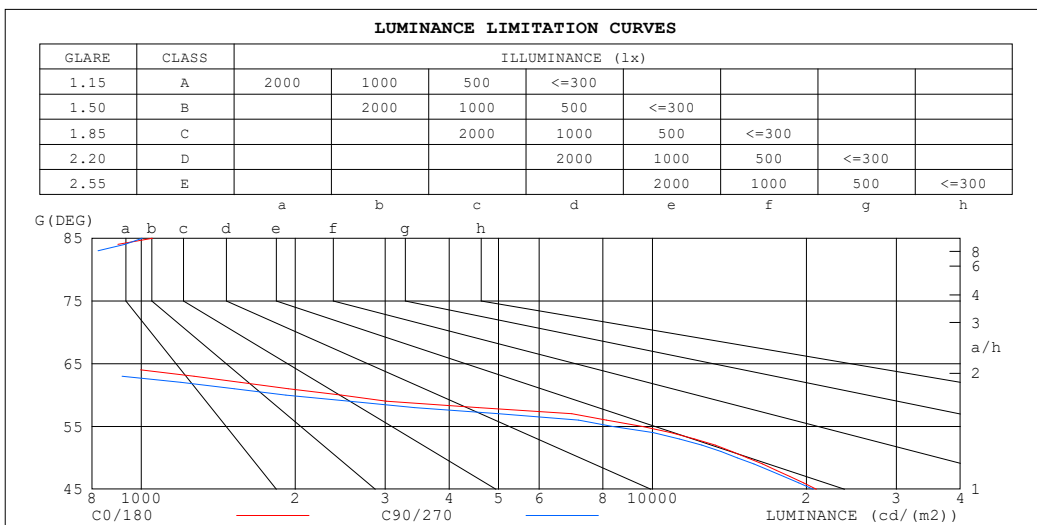
%lamp = 99.2%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Testing Room
Test Date:2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	1052	1004
80	598	621
75	469	484
70	429	439
65	753	537
60	2467	1919
55	9567	8365
50	15345	14656
45	20917	20609

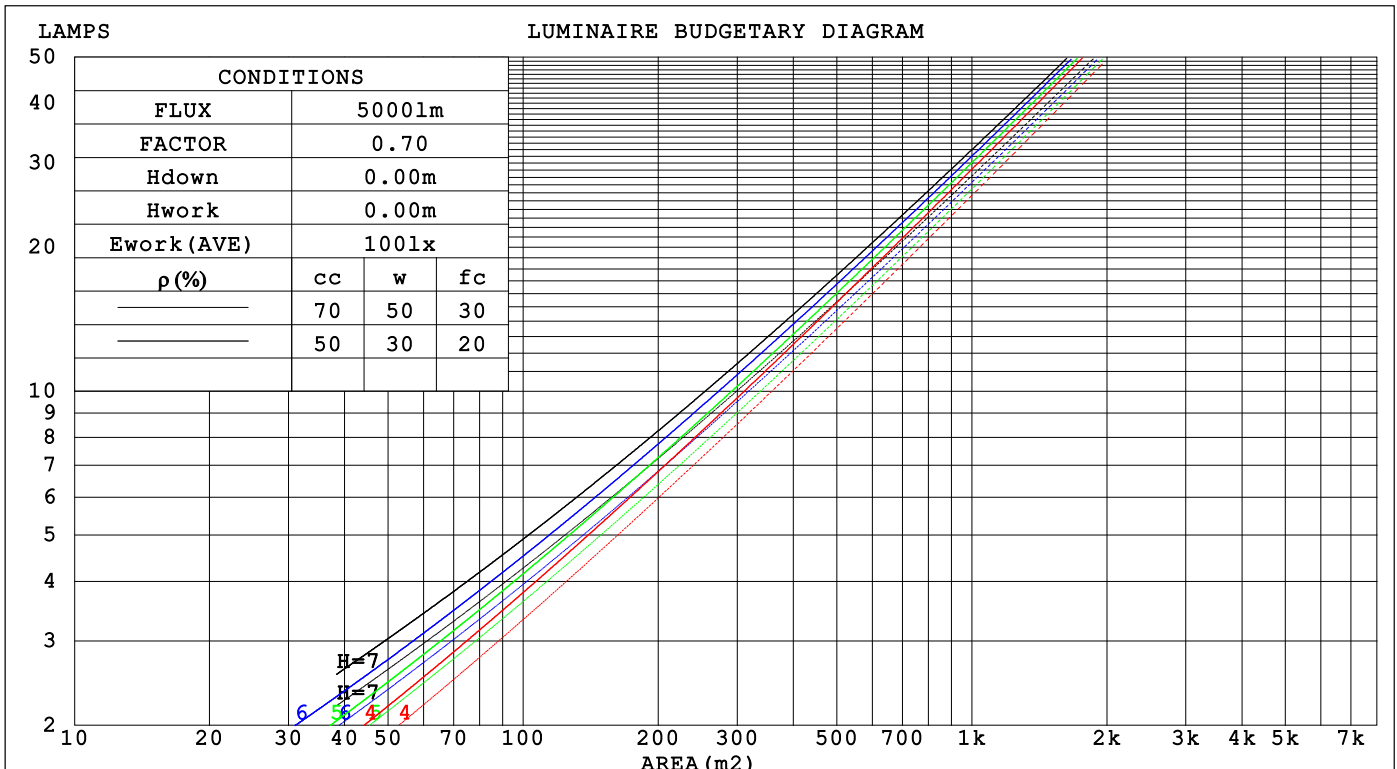
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2026-02-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	1.10	1.07	1.04	1.08	1.05	1.03	1.03	1.01	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.96	.92	.99	.95	.91	.96	.92	.89	.93	.90	.87	.90	.88	.86	.84
3.0	.93	.87	.83	.91	.86	.82	.89	.84	.81	.86	.82	.79	.84	.81	.78	.76
4.0	.85	.79	.74	.84	.78	.74	.82	.77	.73	.80	.76	.72	.78	.74	.71	.70
5.0	.79	.72	.67	.78	.72	.67	.76	.71	.66	.74	.70	.66	.73	.69	.65	.64
6.0	.73	.66	.62	.72	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.65	.60	.56	.63	.59	.55	.54
8.0	.63	.57	.52	.63	.56	.52	.62	.56	.52	.61	.55	.51	.59	.55	.51	.50
9.0	.59	.53	.48	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.46
10.0	.56	.49	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.53	.48	.44	.43



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Testing Room
Test Date: 2026-02-28

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

```

WEC AND CCEC

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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	.198	.113	.036	.191	.109	.035	.179	.103	.033	.167	.096	.031	.156	.091	.029															
2.0	.193	.106	.032	.187	.103	.032	.176	.098	.030	.166	.093	.029	.157	.089	.028															
3.0	.185	.098	.029	.180	.096	.029	.170	.092	.028	.162	.089	.027	.154	.085	.026															
4.0	.176	.092	.027	.172	.090	.027	.164	.087	.026	.156	.084	.025	.149	.081	.025															
5.0	.168	.086	.025	.164	.084	.025	.157	.082	.024	.150	.079	.024	.144	.077	.023															
6.0	.160	.080	.023	.157	.079	.023	.150	.077	.022	.144	.075	.022	.139	.073	.022															
7.0	.152	.075	.021	.149	.074	.021	.144	.073	.021	.139	.071	.021	.134	.069	.020															
8.0	.145	.071	.020	.143	.070	.020	.138	.069	.020	.133	.067	.019	.128	.066	.019															
9.0	.139	.067	.019	.136	.066	.019	.132	.065	.018	.127	.064	.018	.123	.063	.018															
10.0	.132	.063	.018	.130	.063	.018	.126	.062	.017	.122	.061	.017	.119	.060	.017															

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.040	.101	.062	.034	.070	.044	.024	.041	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.097	.057	.030	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2026-02-28

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm										
NAME: 017440235 6000K 20W 2400lm					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
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	19.2	20.2	19.4	20.4	20.6	19.1	20.2	19.3	20.4	20.5
3H	19.0	20.0	19.2	20.2	20.4	18.9	19.9	19.2	20.1	20.3
4H	18.9	19.8	19.2	20.1	20.3	18.8	19.8	19.1	20.0	20.2
6H	18.8	19.7	19.1	19.9	20.2	18.7	19.6	19.0	19.9	20.1
8H	18.7	19.6	19.1	19.9	20.1	18.7	19.5	19.0	19.8	20.1
12H	18.7	19.5	19.0	19.8	20.1	18.7	19.5	19.0	19.7	20.0
4H 2H	18.9	19.9	19.2	20.1	20.3	18.9	19.8	19.2	20.1	20.3
3H	18.8	19.6	19.1	19.8	20.1	18.7	19.5	19.0	19.8	20.1
4H	18.7	19.4	19.0	19.7	20.0	18.6	19.3	19.0	19.7	20.0
6H	18.6	19.2	19.0	19.6	19.9	18.5	19.2	18.9	19.5	19.9
8H	18.5	19.1	18.9	19.5	19.9	18.5	19.1	18.9	19.4	19.8
12H	18.5	19.0	18.9	19.4	19.8	18.4	19.0	18.9	19.4	19.8
8H 4H	18.5	19.1	18.9	19.5	19.8	18.5	19.1	18.9	19.4	19.8
6H	18.4	18.9	18.9	19.3	19.7	18.4	18.9	18.8	19.3	19.7
8H	18.4	18.8	18.9	19.2	19.7	18.4	18.8	18.8	19.2	19.6
12H	18.4	18.7	18.8	19.2	19.6	18.3	18.7	18.8	19.1	19.6
12H 4H	18.5	19.0	18.9	19.4	19.8	18.4	19.0	18.8	19.3	19.7
6H	18.4	18.8	18.8	19.2	19.7	18.3	18.8	18.8	19.2	19.6
8H	18.4	18.7	18.8	19.2	19.6	18.3	18.7	18.8	19.1	19.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.1 / - 5.9					+ 2.2 / - 6.8				
1.5H	+ 2.0 / - 3.2					+ 2.0 / - 3.3				
2.0H	+ 4.4 / -12.5					+ 4.5 / -12.9				

CIE Pub.117, 2400 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.0$)
 Area: 0.03 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:11.050m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

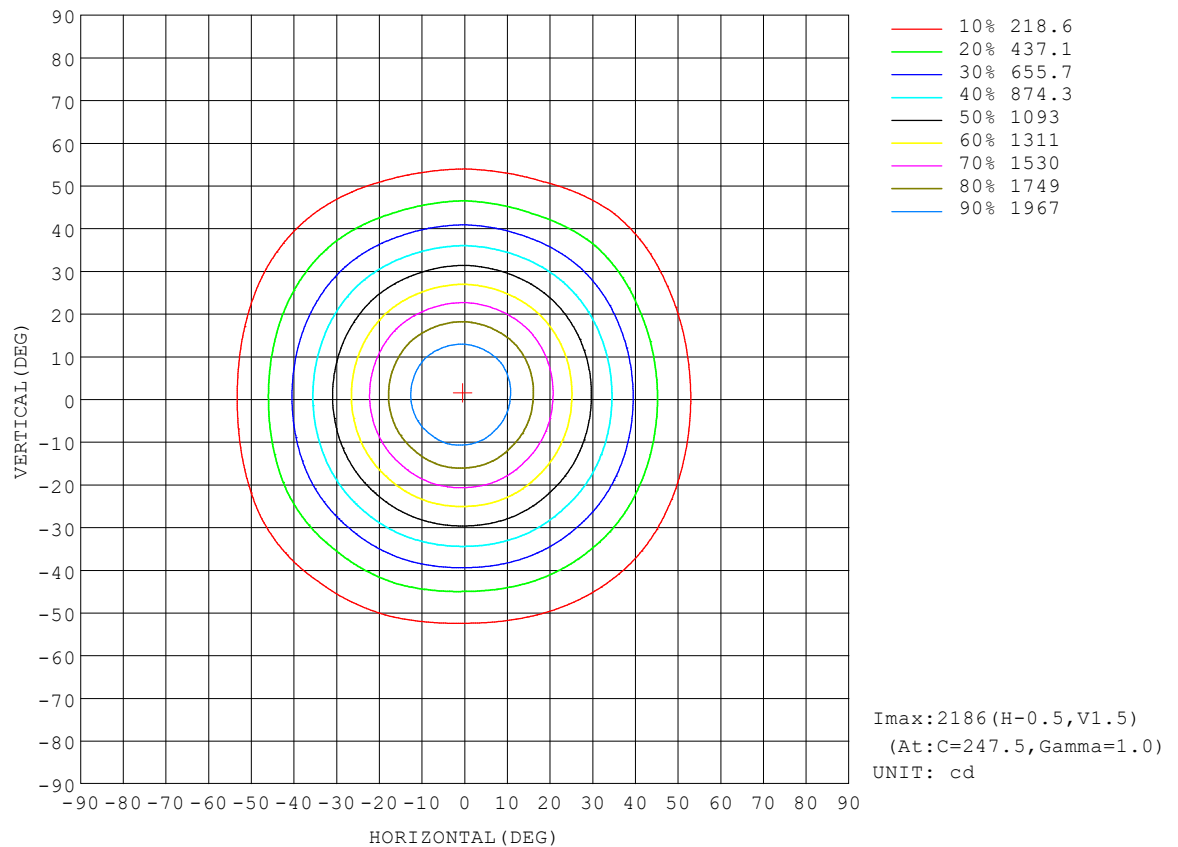
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	69	64	77	69	64	76	69	64	60
0.80	87	79	74	86	79	74	84	78	74	69
1.00	93	86	82	92	86	81	90	86	81	76
1.25	98	92	88	97	91	87	95	90	87	82
1.50	102	96	92	101	95	91	98	94	90	85
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	101	105	102	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	113	111	108	111	109	107	107	105	104	96
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: 25.3°C
 Operators: Testing Room
 Test Date: 2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

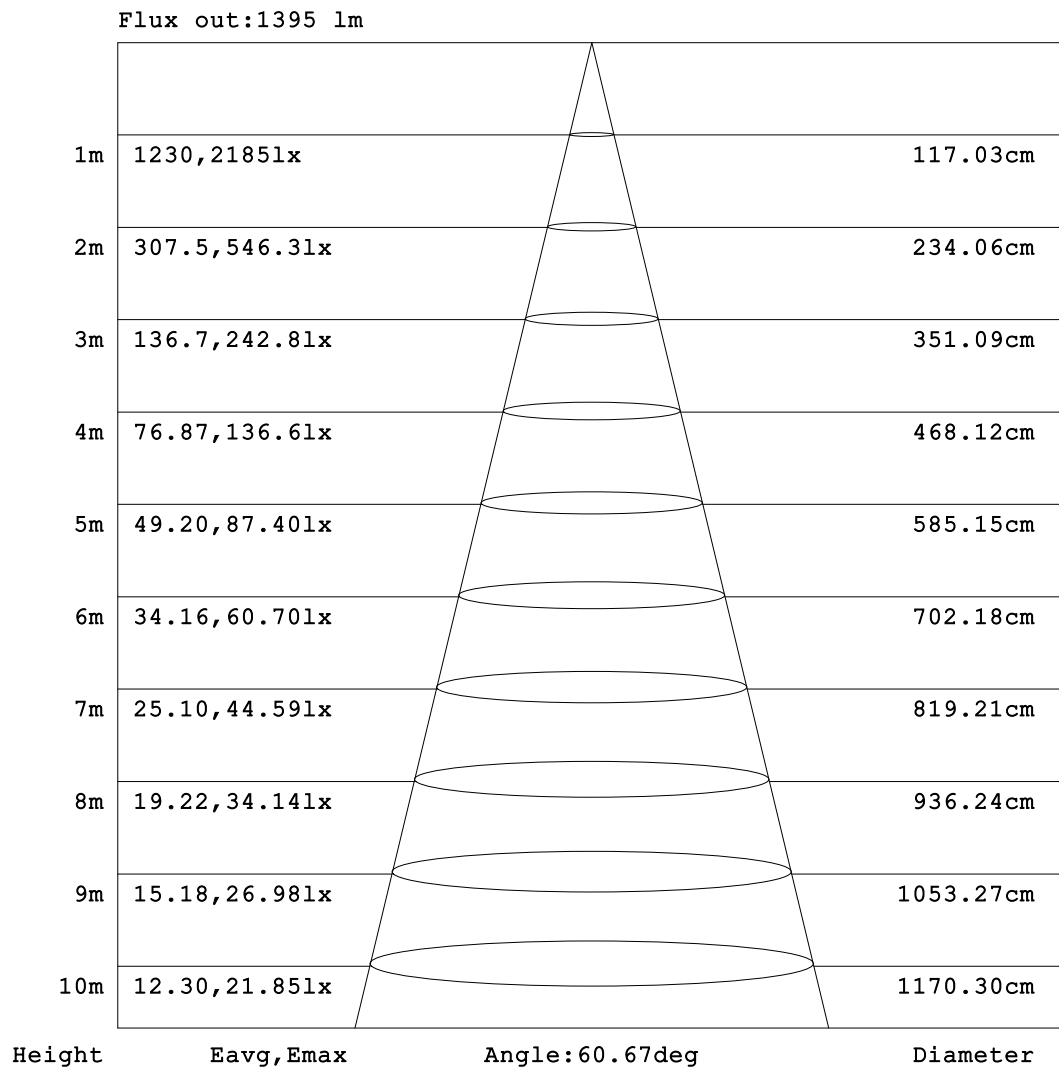


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:11.050m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



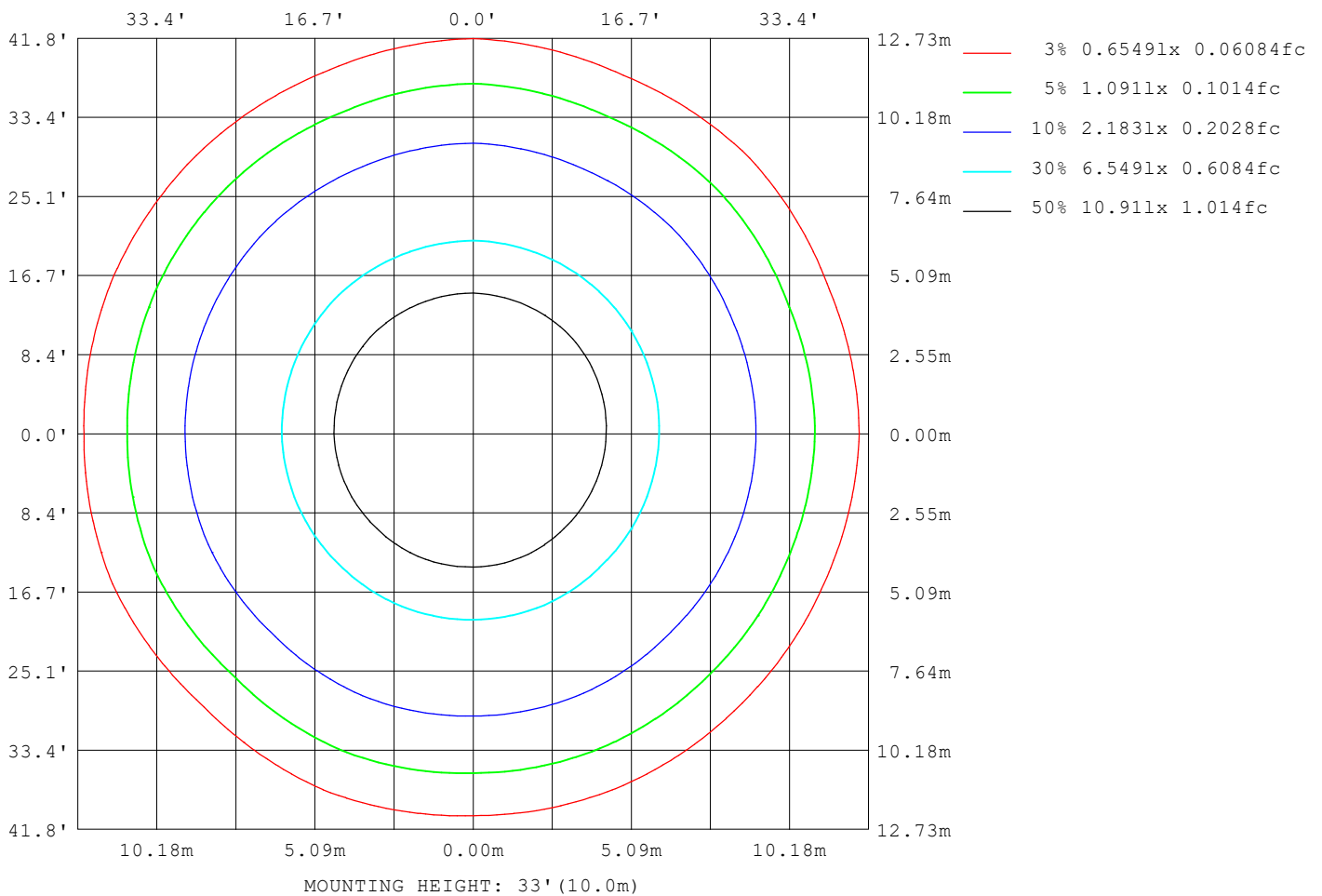
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: Testing Room
 Test Date: 2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: Testing Room
 Test Date: 2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 24001m	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

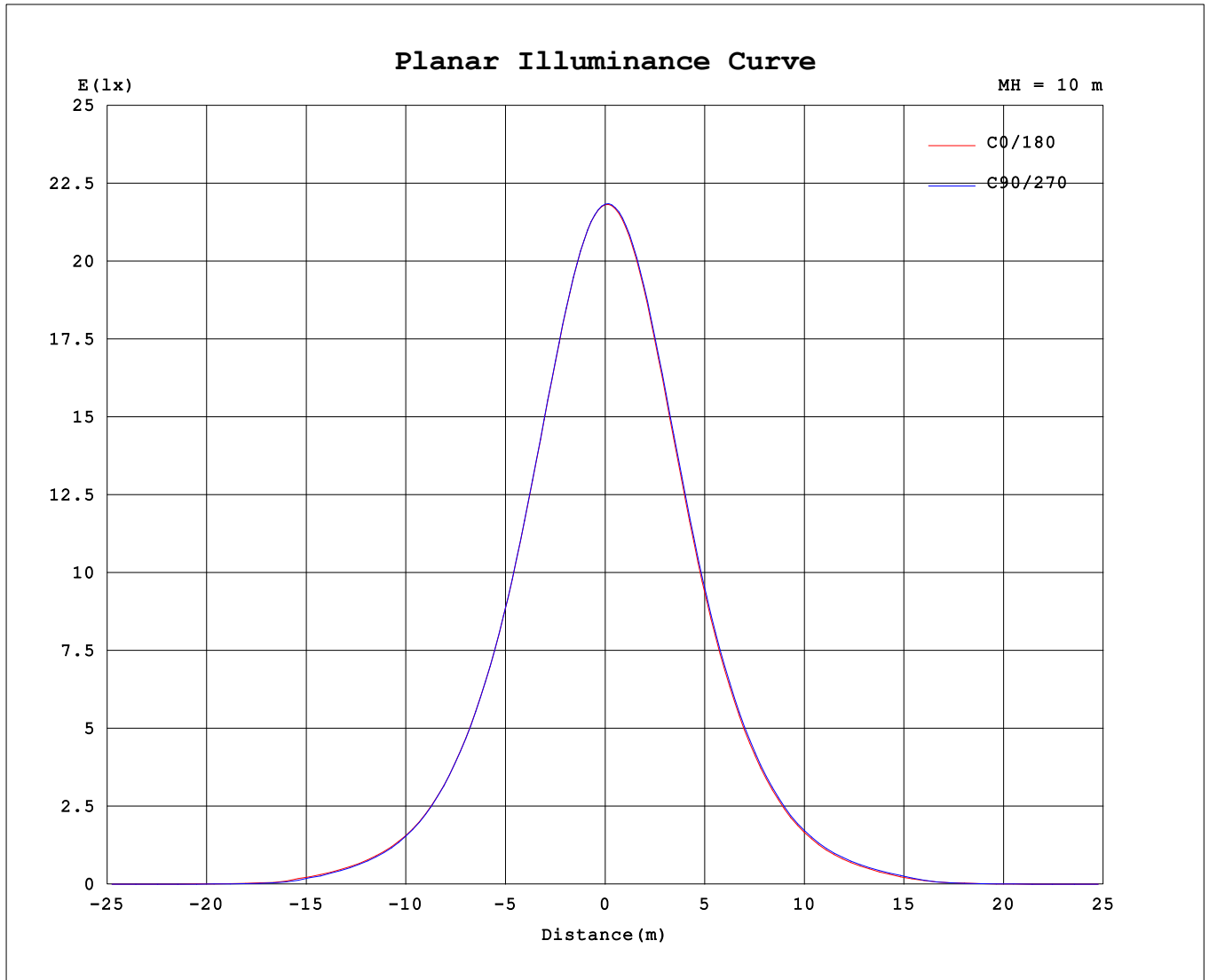
AvgL	cd/m2
L_0~180 (65) av	777
L_0~180 (75) av	480
L_0~180 (85) av	1068
L_90~270 (65) av	619
L_90~270 (75) av	473
L_90~270 (85) av	995
L_45 (65) av	796
L_45 (75) av	474
L_45 (85) av	987

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:11.050m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: Testing Room
 Test Date: 2026-02-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.02V I:0.0884A P:19.111W PF:0.9394 Freq:50.00Hz Lamp Flux:2400.23x1 lm		
NAME: 017440235 6000K 20W 2400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Testing Room
Test Date: 2026-02-28

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

```