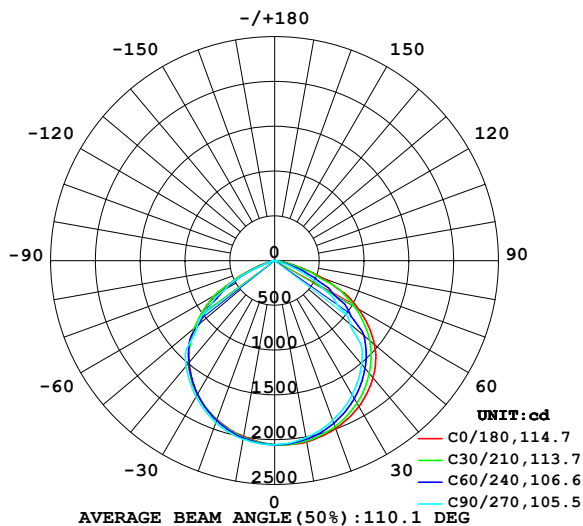


LUMINAIRE PHOTOMETRIC TEST REPORT

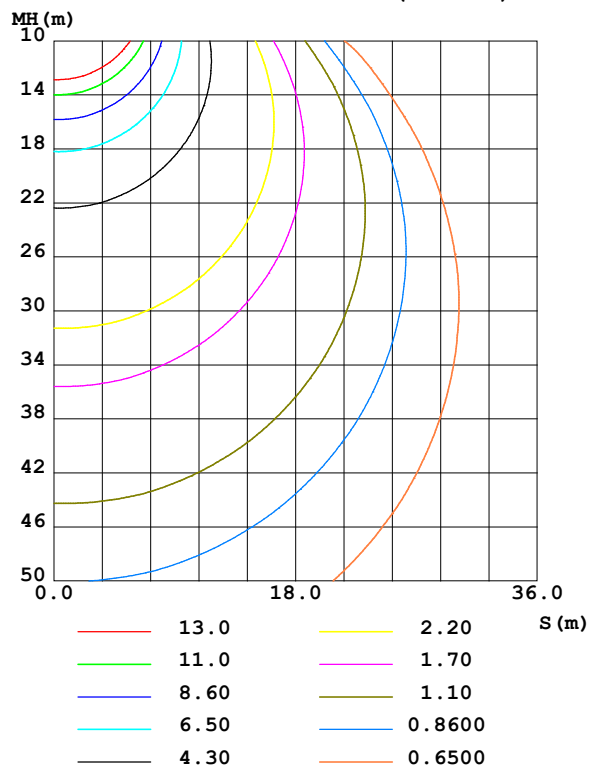
Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 112.22 lm/W
MODEL	422E	I _{max} (cd)	2061	S/MH (C0/180)	1.25	
NOMINAL POWER(W)	50	LOR (%)	100.0	S/MH (C90/270)	1.27	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5346.6	η UP,DN (C0-180)	0.0,50.6	
NOMINAL FLUX(lm)	5346.56	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.4	
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: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [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	2054	2038	2009	1993	1994	2003	2026	2046	0- 10	194.4	194.4	3.64,3.64
20	1994	1953	1896	1874	1887	1893	1924	1972	10- 20	559.2	753.7	14.1,14.1
30	1882	1810	1730	1694	1725	1713	1757	1828	20- 30	854.4	1608	30.1,30.1
40	1708	1612	1512	1461	1497	1476	1539	1625	30- 40	1044	2652	49.6,49.6
50	1453	1350	1101	1169	1169	1181	1133	1359	40- 50	1088	3739	69.9,69.9
60	1079	909.9	619.0	716.7	699.1	697.0	643.0	918.7	50- 60	914.9	4654	87.1,87.1
70	560.4	421.3	201.2	222.4	223.3	201.0	158.8	358.5	60- 70	539.8	5194	97.1,97.1
80	102.1	45.91	31.16	24.86	14.43	16.46	17.90	30.13	70- 80	141.5	5336	99.8,99.8
90	2.033	2.296	2.405	2.580	3.550	3.029	2.362	2.346	80- 90	11.03	5347	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): 3202.9 lm

%lum = 59.9%

%lamp = 59.9%

Conical surface Flux(130deg): 4981.5 lm

%lum = 93.2%

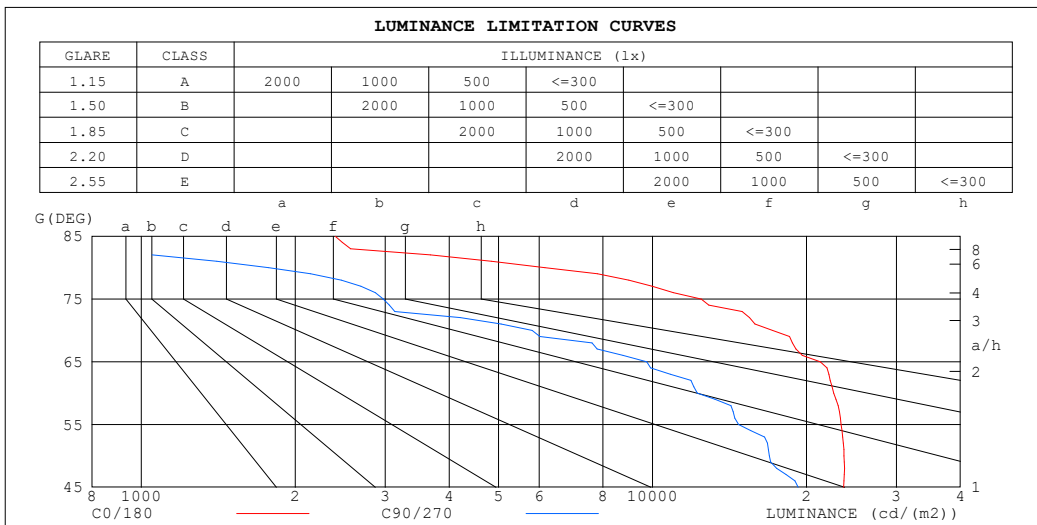
%lamp = 93.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-09-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2394	614
80	6162	1775
75	12450	2972
70	17178	5817
65	21279	9740
60	22622	12243
55	23390	14727
50	23697	16936
45	23656	19282

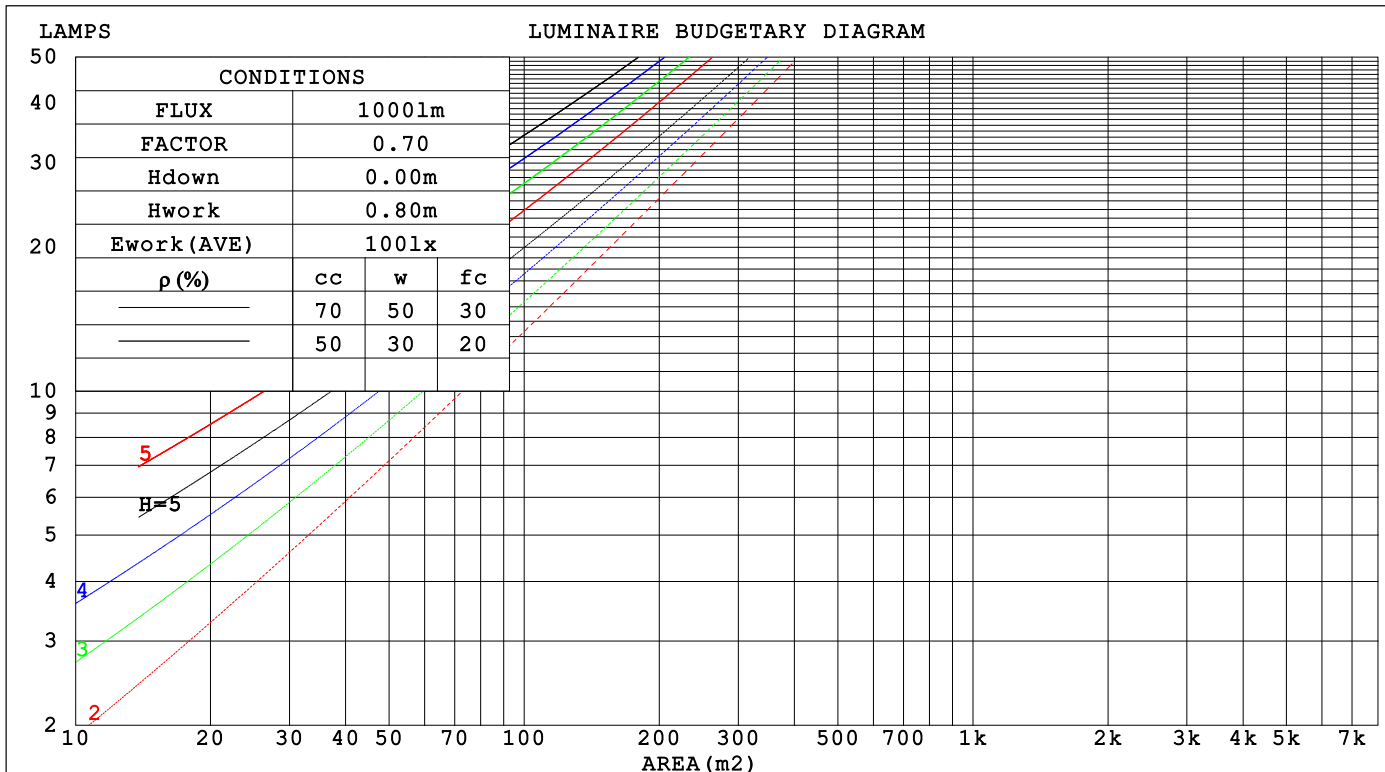
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-09-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	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															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	1.06	1.02	.99	1.04	1.01	.98	.00	.97	.94	.96	.94	.92	.92	.91	.89	.87														
2.0	.94	.88	.82	.92	.86	.81	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74														
3.0	.83	.75	.69	.81	.74	.69	.78	.73	.68	.76	.71	.66	.73	.69	.65	.63														
4.0	.74	.66	.59	.73	.65	.59	.70	.63	.58	.68	.62	.57	.66	.61	.57	.54														
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47														
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.44	.42														
7.0	.54	.46	.40	.53	.45	.40	.52	.44	.39	.50	.44	.39	.49	.43	.39	.37														
8.0	.49	.41	.35	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33														
9.0	.45	.37	.32	.45	.37	.32	.44	.37	.32	.42	.36	.31	.41	.36	.31	.29														
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.28	.27														



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	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	.266	.151	.048	.259	.147	.047	.246	.141	.045	.234	.135	.043	.222	.129	.042		
2.0	.260	.143	.044	.254	.140	.043	.243	.135	.042	.232	.130	.041	.222	.126	.040		
3.0	.247	.131	.039	.242	.129	.039	.232	.125	.038	.222	.122	.037	.214	.118	.037		
4.0	.232	.121	.035	.227	.119	.035	.218	.116	.035	.210	.113	.034	.202	.110	.033		
5.0	.217	.111	.032	.213	.109	.032	.205	.107	.031	.198	.104	.031	.191	.102	.031		
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.186	.097	.028	.180	.095	.028		
7.0	.191	.094	.027	.188	.093	.027	.181	.092	.026	.175	.090	.026	.170	.088	.026		
8.0	.179	.088	.025	.176	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024		
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022		
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.021	.144	.072	.021		

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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015		
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012		
3.0	.160	.114	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009		
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007		
5.0	.146	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006		
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005		
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004		
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004		
9.0	.121	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003		
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.: 6500K			DIM.:			SERIAL No.:				
MFR.: EVERFINE			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	18.8	20.2	19.0	20.4	20.6	16.8	18.2	17.0	18.4	18.6
3H	20.1	21.4	20.4	21.6	21.8	17.2	18.5	17.5	18.7	19.0
4H	20.4	21.6	20.7	21.9	22.1	17.1	18.4	17.5	18.6	18.9
6H	20.5	21.6	20.8	21.9	22.2	17.1	18.3	17.4	18.5	18.8
8H	20.4	21.5	20.8	21.8	22.1	17.0	18.2	17.4	18.4	18.7
12H	20.4	21.5	20.7	21.7	22.0	17.0	18.1	17.3	18.4	18.7
4H 2H	19.1	20.4	19.4	20.6	20.9	17.5	18.8	17.8	19.0	19.3
3H	20.5	21.6	20.9	21.9	22.2	18.0	19.1	18.4	19.4	19.7
4H	20.9	21.9	21.3	22.2	22.6	18.0	19.0	18.4	19.3	19.6
6H	21.1	21.9	21.5	22.3	22.6	18.0	18.8	18.4	19.2	19.5
8H	21.0	21.8	21.4	22.2	22.6	17.9	18.7	18.3	19.1	19.5
12H	21.0	21.7	21.4	22.1	22.5	17.9	18.6	18.3	19.0	19.4
8H 4H	20.9	21.7	21.3	22.1	22.4	18.1	18.9	18.6	19.3	19.7
6H	21.0	21.7	21.5	22.1	22.5	18.1	18.8	18.5	19.2	19.6
8H	21.0	21.6	21.5	22.0	22.5	18.1	18.7	18.5	19.1	19.5
12H	21.0	21.5	21.5	21.9	22.4	18.0	18.5	18.5	19.0	19.5
12H 4H	20.8	21.6	21.3	22.0	22.4	18.1	18.8	18.5	19.2	19.6
6H	21.0	21.6	21.5	22.0	22.5	18.1	18.7	18.5	19.1	19.5
8H	21.0	21.5	21.5	21.9	22.4	18.1	18.5	18.5	19.0	19.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.4 / - 0.6				
1.5H	+ 0.3 / - 0.6					+ 0.4 / - 0.9				
2.0H	+ 0.4 / - 0.5					+ 0.5 / - 1.5				

CIE Pub.117, 5347 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.8)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

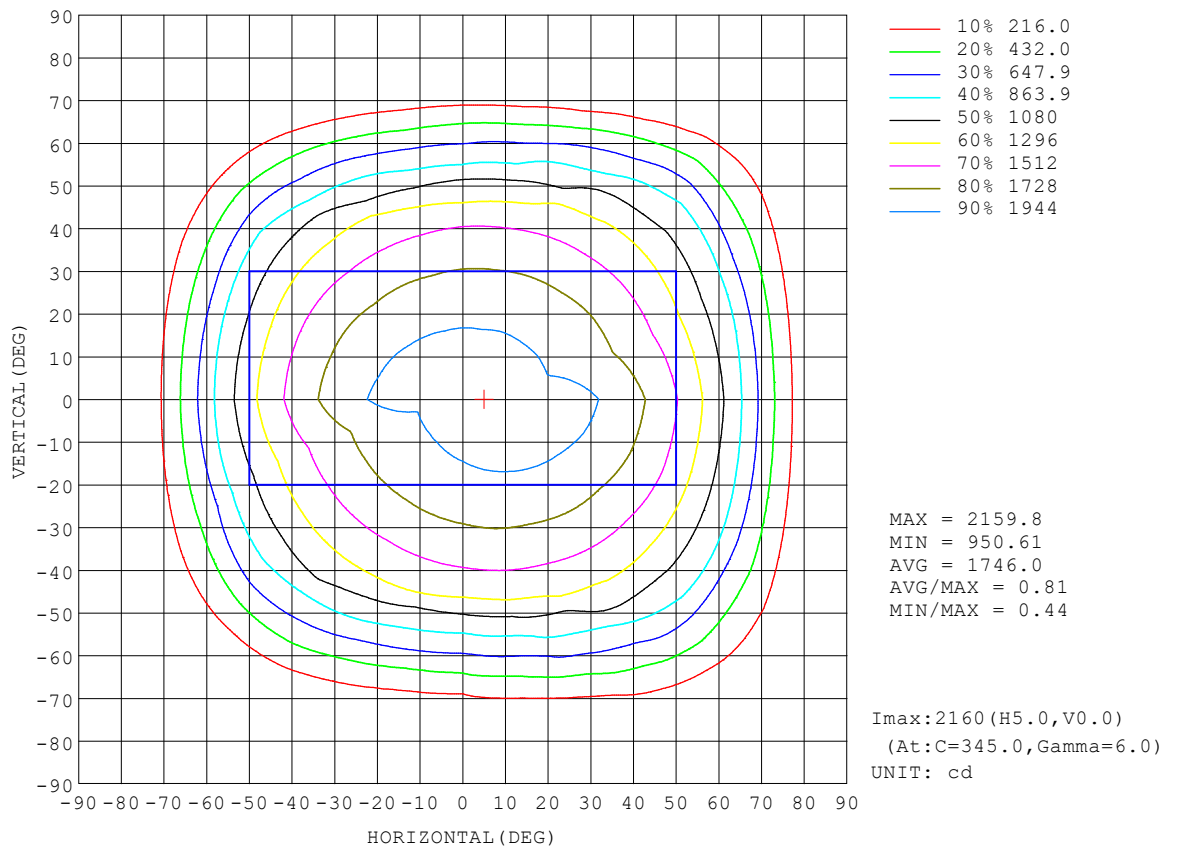
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	59	52	68	58	52	45
1.00	79	69	62	78	68	62	76	70	61	55
1.25	87	77	70	85	76	70	83	75	69	62
1.50	91	83	76	90	82	76	87	80	75	68
2.00	98	91	85	96	89	84	93	87	83	75
2.50	102	95	89	100	93	88	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-09-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

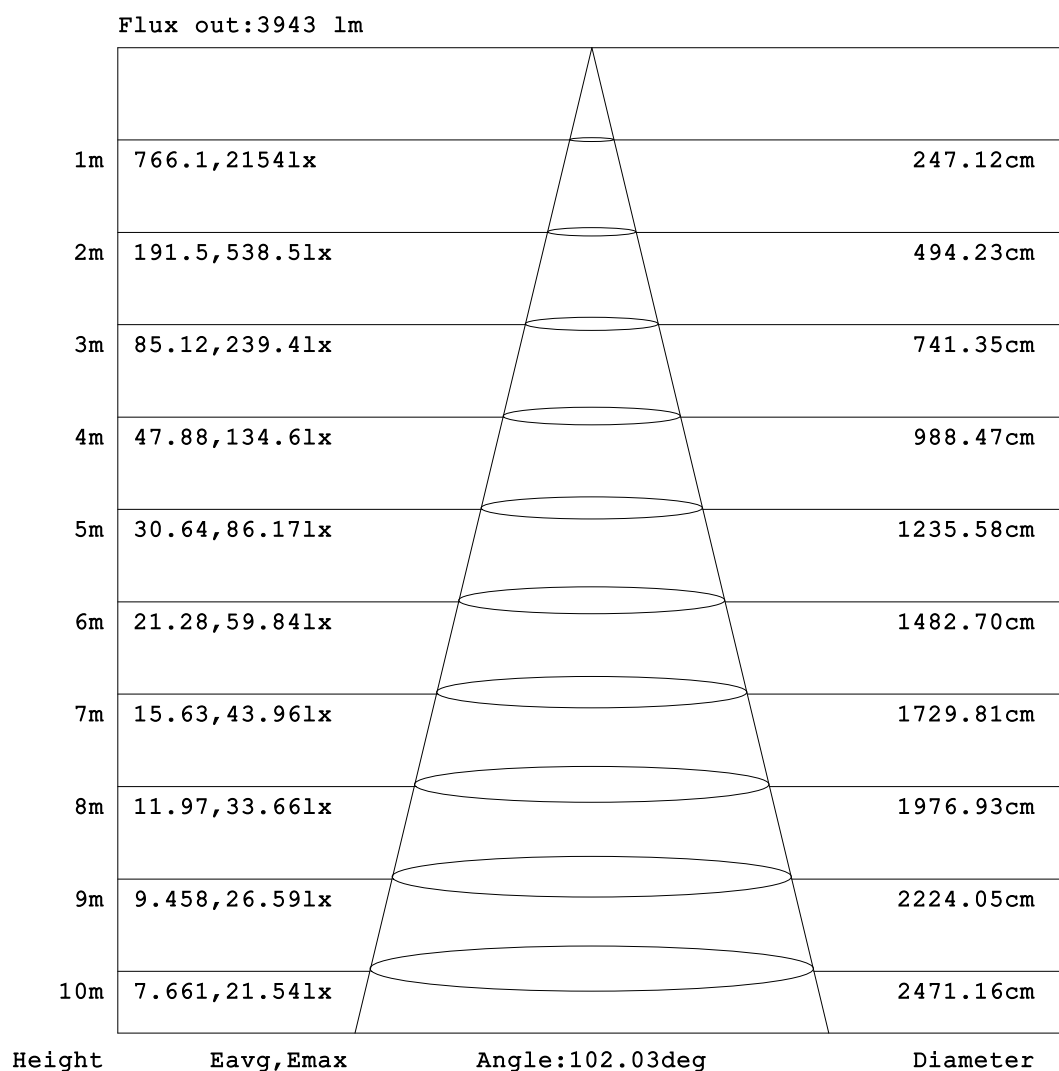


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



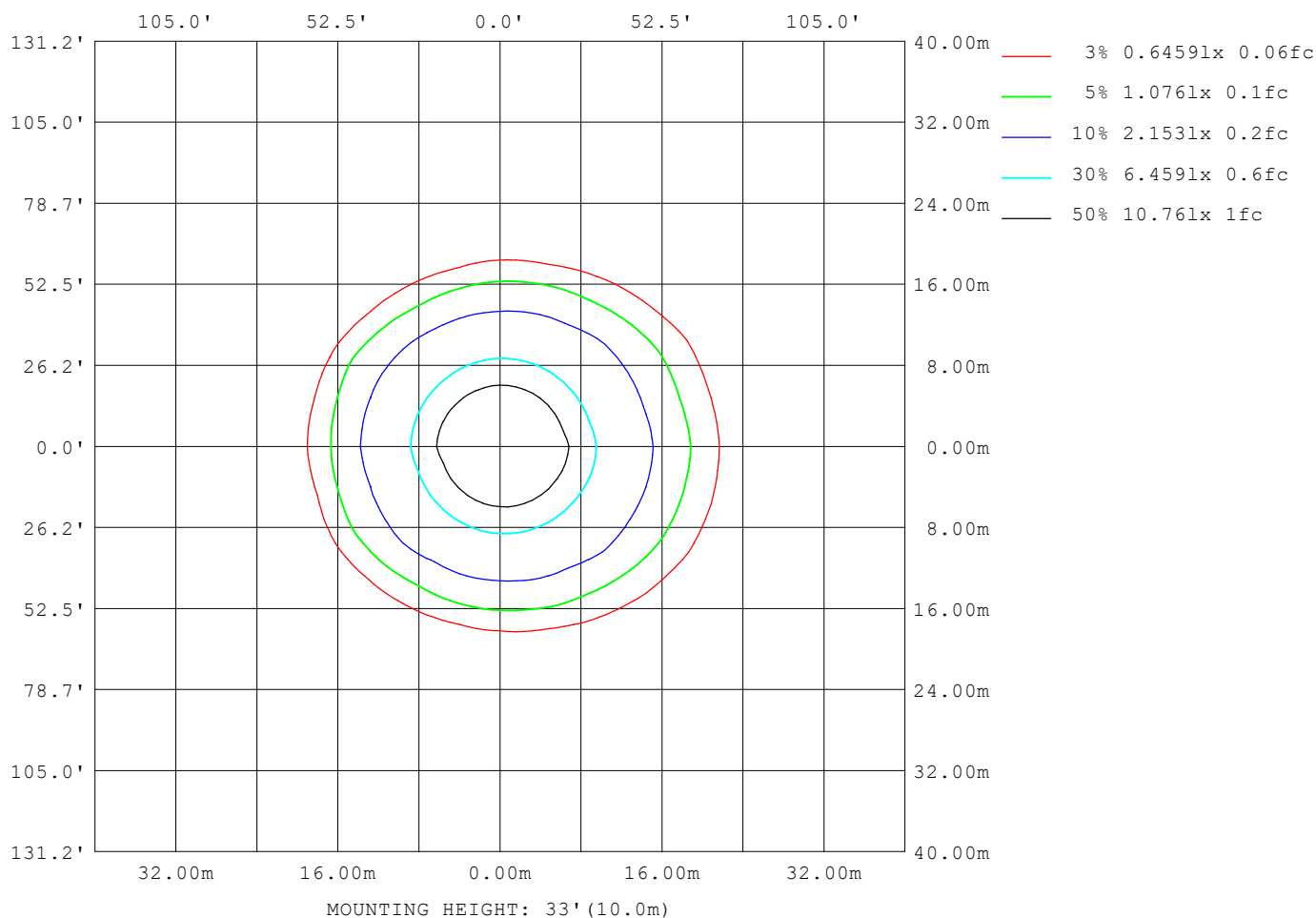
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

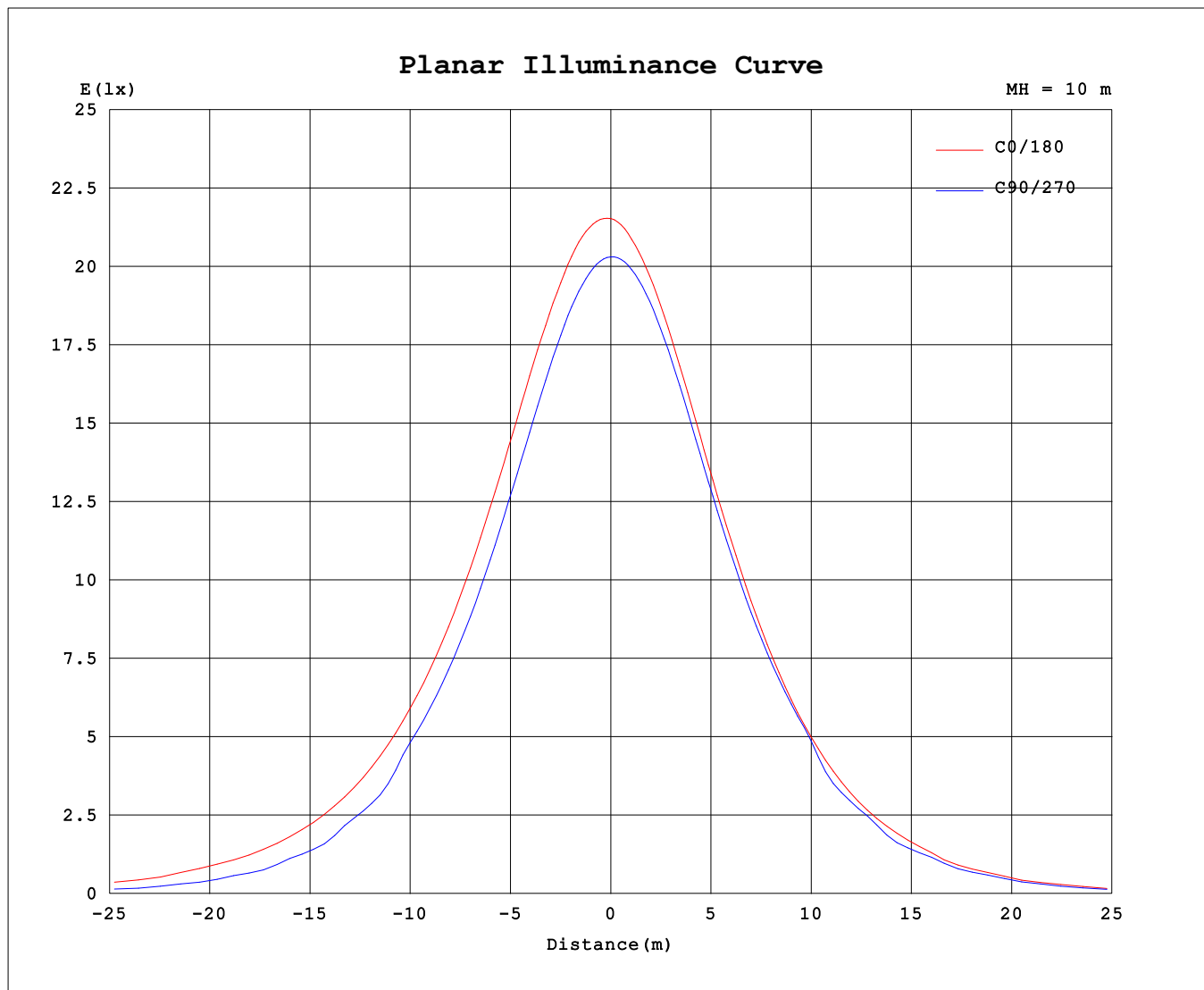
AvgL	cd/m2
L_0~180 (65) av	15532
L_0~180 (75) av	7203
L_0~180 (85) av	1362
L_90~270 (65) av	9897
L_90~270 (75) av	2673
L_90~270 (85) av	488
L_45 (65) av	13193
L_45 (75) av	3752
L_45 (85) av	458

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-09-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

```

Test:U:230.27V I:0.3549A P:47.643W PF:0.5830 Freq:50.00Hz Lamp Flux:5346.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

```