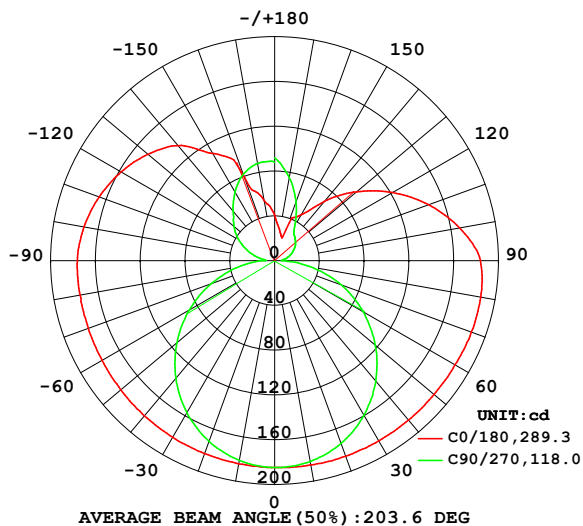


LUMINAIRE PHOTOMETRIC TEST REPORT

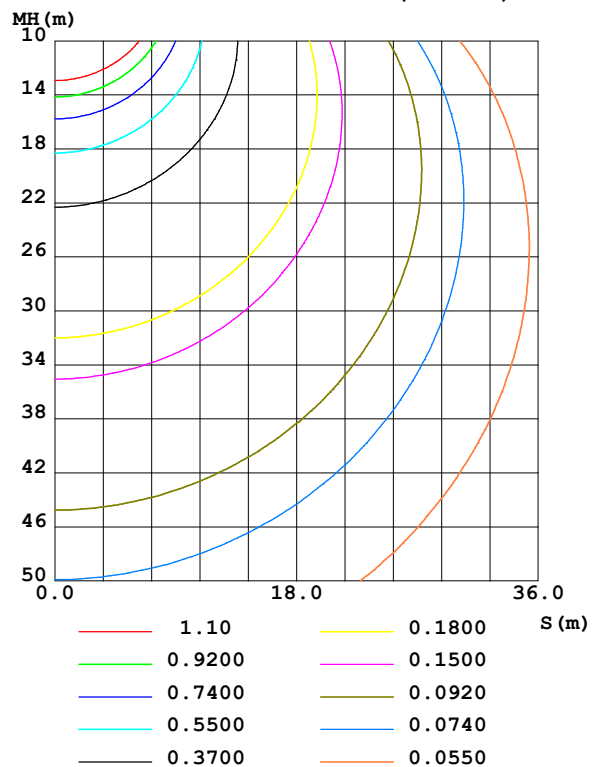
Test:U:101.40V I:0.3190A P:28.700W PF:0.8880 Freq:50.00Hz Lamp Flux:1369.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 47.72 lm/W
MODEL	080026-6351K	I _{max} (cd)	187.2	S/MH(C0/180)	1.55	
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.28	
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	1369.5	η UP,DN(C0-180)	21.4,30.9	
NOMINAL FLUX(lm)	1369.49	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	15.8,31.9	
LAMPS INSIDE	1	η up (%)	37.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	100	η down (%)	62.8	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:02 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	184.3	181.1	185.3	182.2					0- 10	17.56	17.56	1.28,1.28
20	183.4	171.8	185.8	173.7					10- 20	51.29	68.85	5.03,5.03
30	182.3	156.8	186.0	159.6					20- 30	80.93	149.8	10.9,10.9
40	181.0	137.2	185.9	140.5					30- 40	104.3	254.1	18.6,18.6
50	179.5	114.0	186.0	117.5					40- 50	120.1	374.2	27.3,27.3
60	178.1	87.99	186.0	91.36					50- 60	127.7	502.0	36.7,36.7
70	177.1	59.98	186.8	63.26					60- 70	127.7	629.7	46,46
80	176.7	33.16	186.9	32.72					70- 80	120.9	750.6	54.8,54.8
90	176.0	8.995	183.8	7.554					80- 90	109.3	859.9	62.8,62.8
100	173.0	13.54	168.0	9.398					90-100	100.5	960.4	70.1,70.1
110	166.8	25.28	146.3	14.89					100-110	94.81	1055	77,77
120	158.4	36.79	121.8	20.05					110-120	85.60	1141	83.3,83.3
130	147.9	47.50	95.95	24.59					120-130	73.27	1214	88.6,88.6
140	134.2	58.02	69.12	28.07					130-140	58.65	1273	92.9,92.9
150	110.7	71.04	47.24	36.26					140-150	43.09	1316	96.1,96.1
160	79.25	82.17	29.44	56.01					150-160	30.78	1347	98.3,98.3
170	54.64	88.28	27.23	75.44					160-170	16.93	1363	99.6,99.6
180	40.61	87.81	40.87	91.73					170-180	5.997	1369	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 312.7 lm

%lum = 22.8%

%lamp = 22.8%

Conical surface Flux(130deg): 566.27 lm

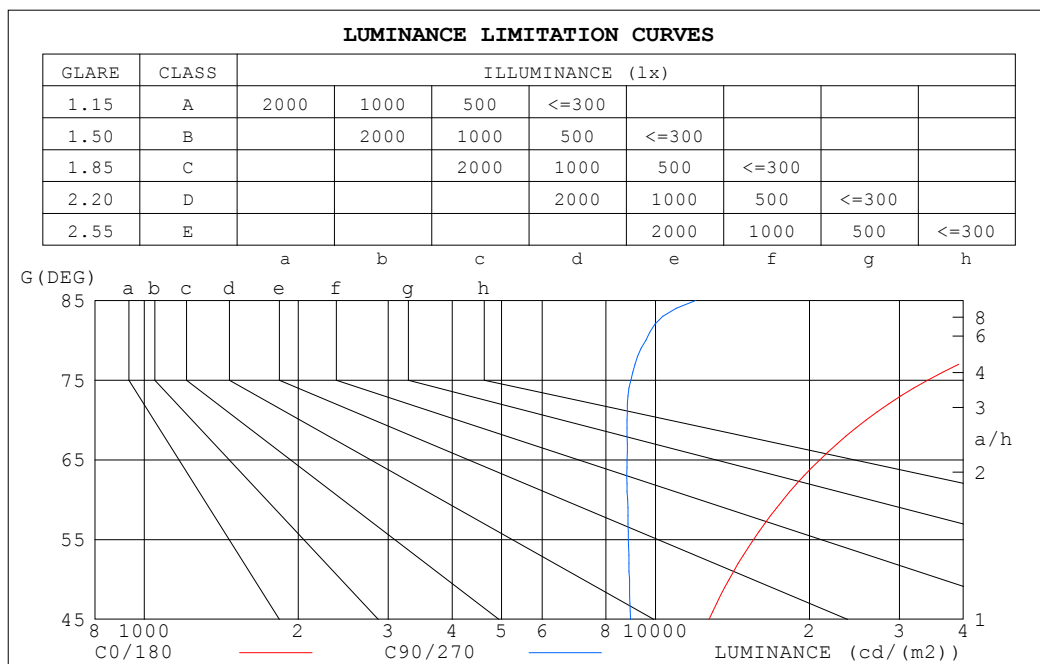
%lum = 41.3%

%lamp = 41.3%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:8.186m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



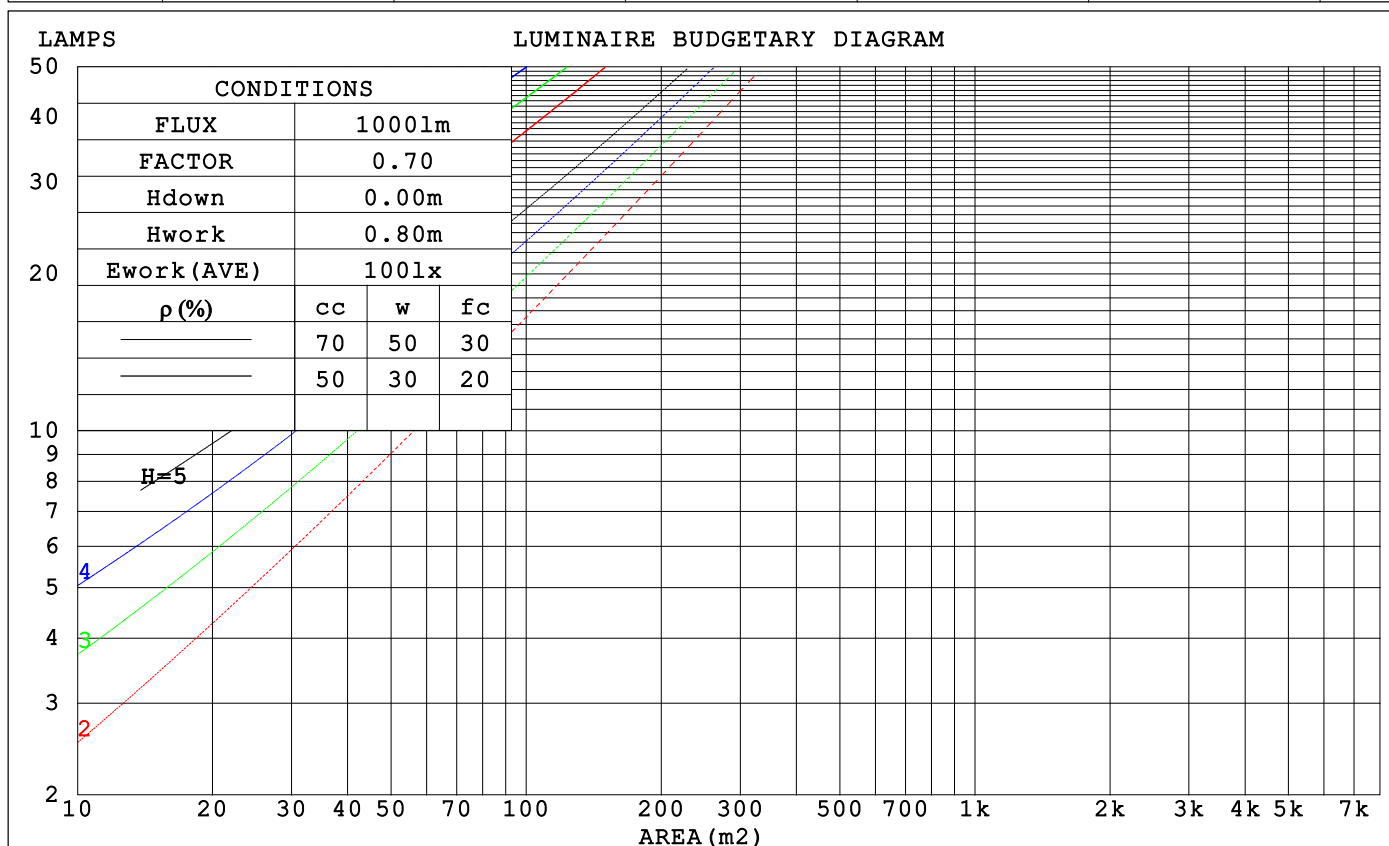
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	101016	11976
80	50746	9571
75	34042	8942
70	25820	8789
65	20960	8794
60	17765	8821
55	15551	8849
50	13930	8891
45	12718	8932

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 02 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.10	1.10	1.10	1.03	1.03	1.03	.90	.90	.90	.79	.79	.79	.68	.68	.68	.63
1.0	.91	.85	.81	.85	.80	.76	.74	.70	.67	.63	.61	.58	.54	.52	.50	.45
2.0	.77	.69	.63	.72	.65	.59	.63	.57	.52	.54	.49	.46	.45	.42	.39	.35
3.0	.67	.58	.51	.62	.54	.48	.54	.48	.42	.46	.41	.37	.39	.35	.32	.28
4.0	.58	.49	.42	.55	.46	.40	.47	.41	.35	.41	.35	.31	.34	.30	.27	.23
5.0	.52	.42	.35	.48	.40	.34	.42	.35	.30	.36	.31	.26	.31	.26	.23	.19
6.0	.46	.37	.30	.43	.35	.29	.38	.31	.26	.32	.27	.23	.28	.23	.19	.17
7.0	.41	.33	.26	.39	.31	.25	.34	.27	.22	.29	.24	.20	.25	.21	.17	.14
8.0	.38	.29	.23	.35	.27	.22	.31	.24	.20	.27	.21	.17	.23	.18	.15	.13
9.0	.34	.26	.20	.32	.25	.19	.28	.22	.17	.25	.19	.15	.21	.17	.13	.11
10.0	.31	.23	.18	.30	.22	.17	.26	.20	.16	.23	.18	.14	.20	.15	.12	.10



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

WEC AND CCEC

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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.389	.221	.070	.370	.211	.067	.336	.193	.061	.304	.175	.056	.274	.159	.051	
2.0	.332	.182	.056	.315	.173	.053	.283	.157	.049	.254	.142	.045	.227	.128	.040	
3.0	.292	.156	.047	.277	.148	.045	.248	.135	.041	.222	.121	.037	.197	.109	.034	
4.0	.262	.136	.040	.248	.130	.038	.222	.118	.035	.197	.106	.032	.175	.095	.029	
5.0	.238	.121	.035	.225	.115	.034	.201	.105	.031	.178	.094	.028	.157	.084	.025	
6.0	.217	.109	.031	.206	.104	.030	.183	.094	.027	.163	.085	.025	.143	.075	.022	
7.0	.200	.099	.028	.190	.094	.027	.169	.085	.025	.150	.077	.022	.132	.068	.020	
8.0	.186	.091	.025	.176	.086	.024	.157	.078	.022	.139	.070	.020	.122	.063	.018	
9.0	.173	.084	.023	.164	.080	.022	.146	.072	.020	.129	.065	.019	.114	.058	.017	
10.0	.162	.077	.022	.153	.074	.021	.137	.067	.019	.121	.060	.017	.106	.053	.015	

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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.474	.474	.474	.405	.405	.405	.276	.276	.276	.159	.159	.159	.051	.051	.051	
1.0	.472	.441	.414	.404	.379	.356	.276	.261	.246	.159	.151	.143	.051	.049	.046	
2.0	.465	.419	.381	.399	.361	.329	.273	.250	.230	.157	.145	.135	.051	.047	.044	
3.0	.458	.404	.360	.393	.348	.312	.270	.242	.219	.156	.141	.129	.050	.046	.042	
4.0	.451	.392	.347	.387	.339	.301	.266	.236	.212	.154	.138	.126	.049	.045	.041	
5.0	.443	.383	.338	.381	.331	.294	.262	.231	.207	.152	.136	.123	.049	.044	.041	
6.0	.436	.375	.331	.375	.325	.288	.259	.227	.204	.150	.134	.121	.048	.044	.040	
7.0	.429	.369	.326	.369	.320	.284	.255	.224	.201	.148	.132	.120	.048	.043	.040	
8.0	.423	.363	.322	.364	.315	.281	.252	.221	.199	.146	.131	.119	.047	.043	.039	
9.0	.417	.359	.320	.359	.311	.279	.249	.219	.198	.145	.129	.118	.047	.042	.039	
10.0	.411	.355	.317	.354	.308	.277	.246	.217	.197	.143	.128	.117	.046	.042	.039	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	20.4	21.5	21.1	22.3	23.2	17.8	19.0	18.6	19.8	20.7
3H	23.6	24.6	24.3	25.4	26.4	19.6	20.7	20.4	21.5	22.4
4H	25.4	26.4	26.2	27.2	28.2	20.4	21.5	21.2	22.3	23.2
6H	27.5	28.5	28.3	29.3	30.3	21.2	22.1	22.0	22.9	23.9
8H	28.7	29.6	29.5	30.4	31.5	21.5	22.4	22.3	23.2	24.2
12H	30.1	31.0	30.9	31.8	32.8	21.8	22.6	22.6	23.5	24.5
4H 2H	20.9	21.9	21.7	22.7	23.7	19.1	20.1	19.9	20.9	21.9
3H	24.3	25.2	25.1	26.0	27.0	21.2	22.1	22.0	22.9	23.9
4H	26.3	27.1	27.1	27.9	29.0	22.2	23.0	23.1	23.9	24.9
6H	28.6	29.3	29.4	30.2	31.3	23.2	23.9	24.0	24.8	25.8
8H	29.9	30.6	30.8	31.5	32.6	23.6	24.3	24.4	25.1	26.2
12H	31.4	32.0	32.3	32.9	34.0	24.0	24.6	24.8	25.5	26.6
8H 4H	26.6	27.3	27.5	28.1	29.2	23.4	24.1	24.3	25.0	26.1
6H	29.2	29.7	30.0	30.6	31.8	24.8	25.4	25.7	26.3	27.4
8H	30.7	31.2	31.6	32.1	33.2	25.4	26.0	26.3	26.9	28.0
12H	32.4	32.9	33.4	33.8	35.0	26.1	26.5	27.0	27.4	28.6
12H 4H	26.6	27.2	27.5	28.1	29.2	23.9	24.5	24.8	25.4	26.5
6H	29.3	29.8	30.2	30.7	31.8	25.5	26.0	26.4	26.9	28.0
8H	30.9	31.3	31.8	32.2	33.4	26.3	26.7	27.2	27.7	28.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 1369 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.1$)
Area: 0.02 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

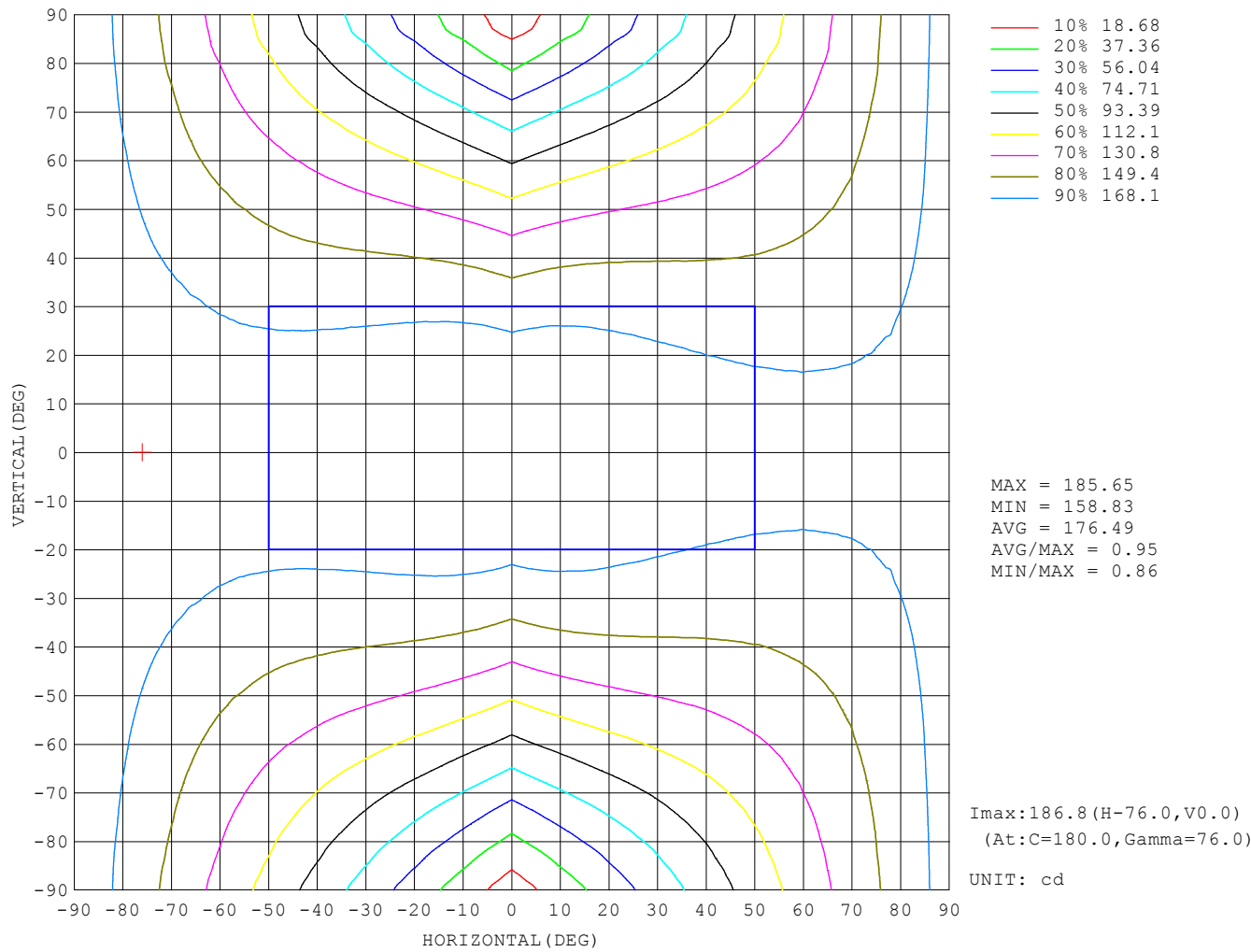
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	41	29	22	40	28	21	37	27	20	13
0.80	50	37	29	48	36	28	44	33	26	18
1.00	58	44	36	55	42	34	50	41	32	22
1.25	65	51	42	61	49	41	55	45	38	26
1.50	70	57	48	66	54	46	59	49	42	29
2.00	77	65	57	73	62	54	64	56	49	34
2.50	82	71	63	77	67	60	68	60	54	37
3.00	86	76	68	81	72	65	71	64	58	40
4.00	91	82	75	85	78	71	75	69	64	44
5.00	94	87	80	88	82	76	77	72	68	46
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 8.186m [K=1.0000]
 Remarks:

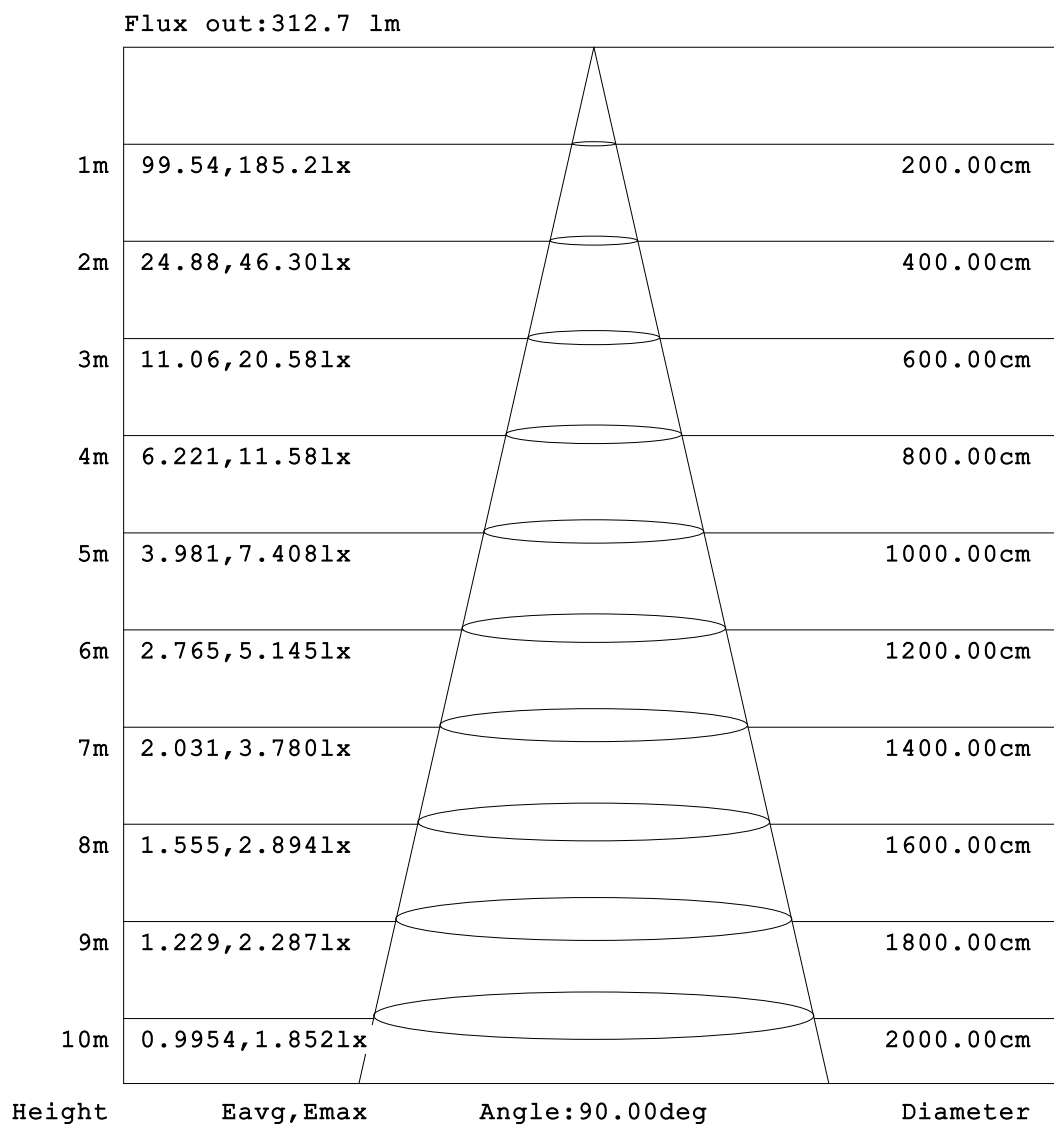
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:02 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

AAI Figure

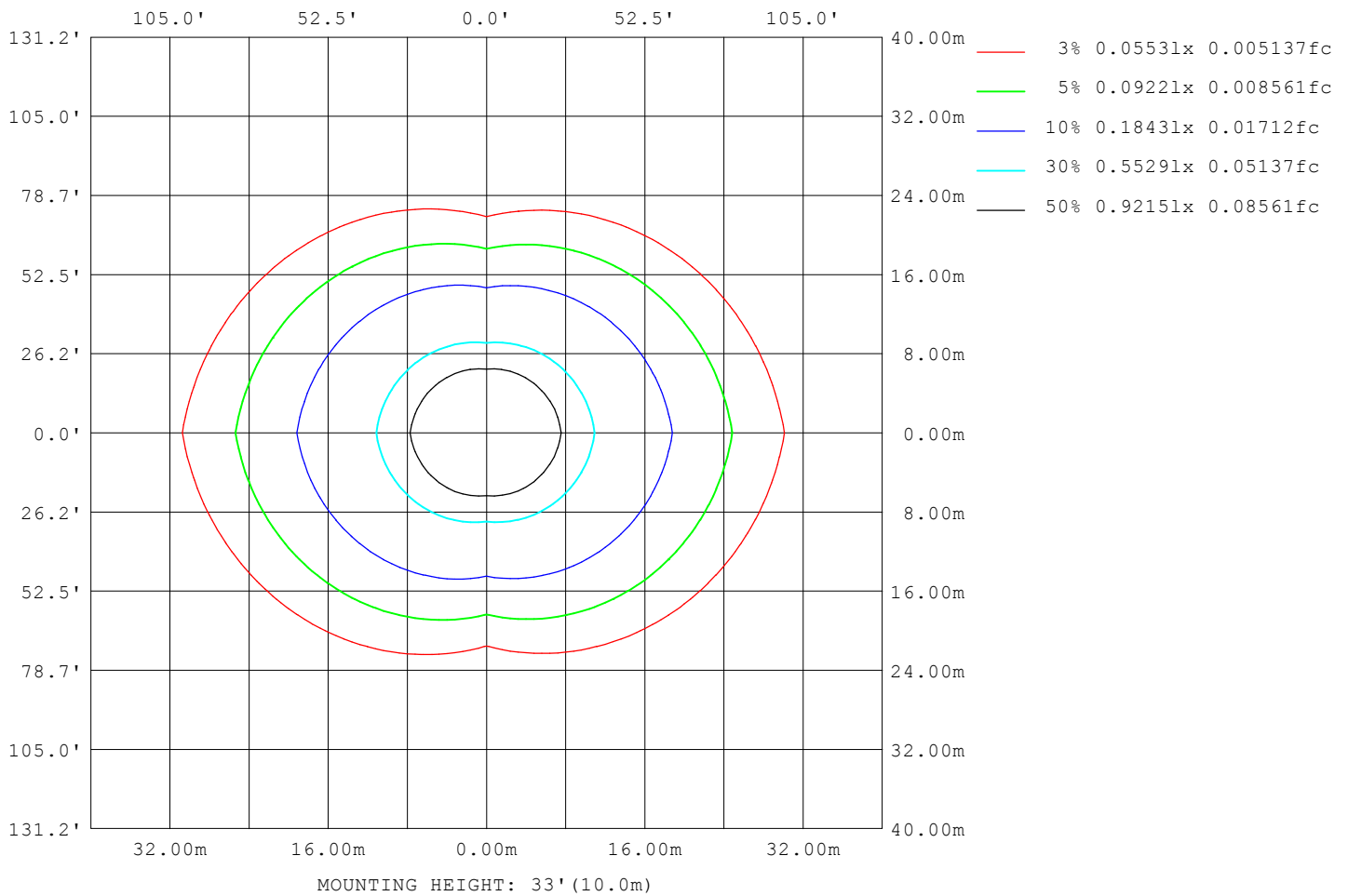


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 8.186m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 8.186m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:101.40V I:0.3190A P:28.700W PF:0.8880 Freq:50.00Hz Lamp Flux:1369.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

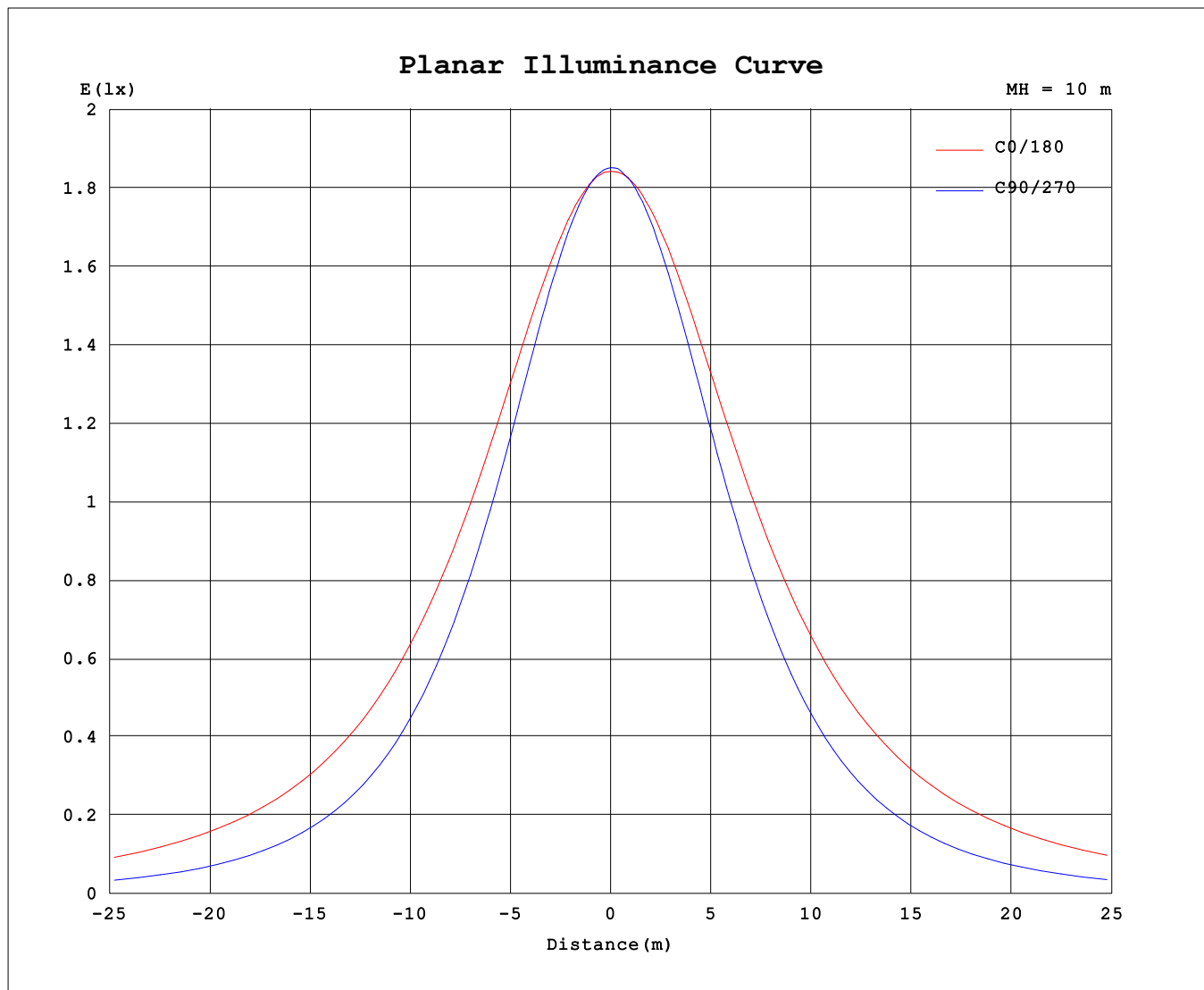
AvgL	cd/m2
L_0~180 (65) av	21547
L_0~180 (75) av	35139
L_0~180 (85) av	104015
L_90~270 (65) av	8972
L_90~270 (75) av	9087
L_90~270 (85) av	11254
L_45 (65) av	13708
L_45 (75) av	18892
L_45 (85) av	46113

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:02 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 02 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	185	185	185	185															
5	184	184	185	184															
10	184	181	185	182															
15	184	177	186	179															
20	183	172	186	174															
25	183	165	186	167															
30	182	157	186	160															
35	182	148	186	150															
40	181	137	186	141															
45	180	126	186	129															
50	180	114	186	117															
55	179	101	186	105															
60	178	88.0	186	91.4															
65	178	74.2	187	77.5															
70	177	60.0	187	63.3															
75	177	46.2	187	47.9															
80	177	33.2	187	32.7															
85	177	20.8	186	18.4															
90	176	9.00	184	7.55															
95	175	9.04	177	7.83															
100	173	13.5	168	9.40															
105	170	19.5	157	12.3															
110	167	25.3	146	14.9															
115	163	30.9	134	17.5															
120	158	36.8	122	20.0															
125	153	42.4	109	22.5															
130	148	47.5	95.9	24.6															
135	142	52.1	82.8	26.4															
140	134	58.0	69.1	28.1															
145	122	64.4	55.6	30.2															
150	111	71.0	47.2	36.3															
155	103	77.1	42.8	45.9															
160	79.2	82.2	29.4	56.0															
165	63.6	85.9	23.0	66.0															
170	54.6	88.3	27.2	75.4															
175	48.7	88.8	32.6	84.3															
180	40.6	87.8	40.9	91.7															

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:02 January 2025

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:8.186m [K=1.0000]

Remarks: