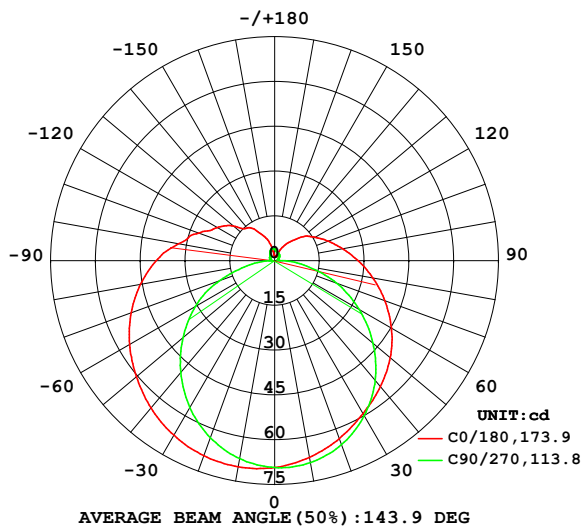


LUMINAIRE PHOTOMETRIC TEST REPORT

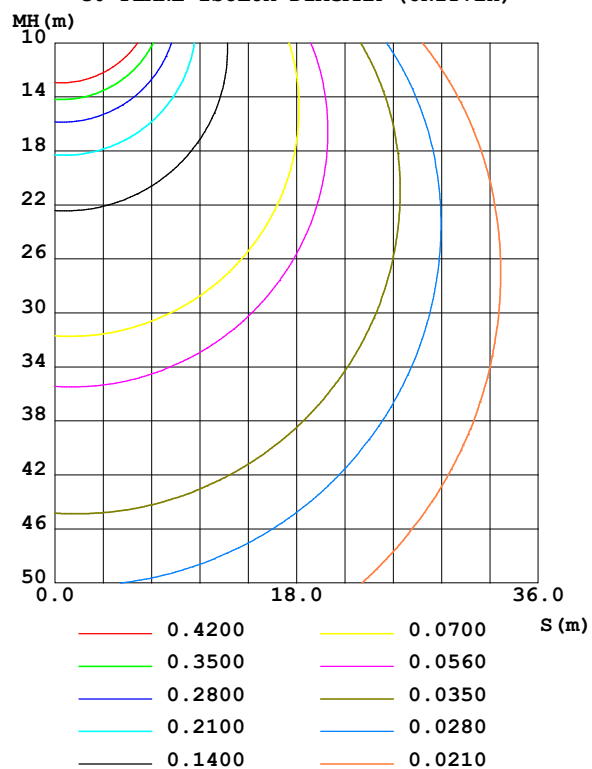
Test:U:101.40V I:0.1120A P:10.500W PF:0.9260 Freq:50.00Hz Lamp Flux:328.457x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 31.28 lm/W
MODEL	80006-60MP	I _{max} (cd)	70.14	S/MH(C0/180)	1.28	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	328.46	η UP,DN(C0-180)	11.9,41.9	
NOMINAL FLUX(lm)	328.457	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	8.2,38.1	
LAMPS INSIDE	1	η up (%)	20.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	100	η down (%)	80.0	CIBSE SHR MAX	1.50	

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:06 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	70.14	67.34	66.93	68.71					0- 10	6.566	6.566	2,2
20	69.51	63.09	63.40	65.56					10- 20	18.95	25.51	7.77,7.77
30	67.49	56.84	59.19	59.94					20- 30	29.23	54.74	16.7,16.7
40	64.45	48.95	55.12	52.45					30- 40	36.50	91.23	27.8,27.8
50	60.44	40.03	50.56	43.01					40- 50	40.22	131.5	40,40
60	56.14	30.62	45.16	32.72					50- 60	40.32	171.8	52.3,52.3
70	51.17	19.52	39.29	22.10					60- 70	37.02	208.8	63.6,63.6
80	45.60	8.535	33.38	10.92					70- 80	30.55	239.3	72.9,72.9
90	39.67	1.594	27.97	2.608					80- 90	23.30	262.6	80,80
100	32.73	1.742	23.19	1.005					90-100	17.90	280.5	85.4,85.4
110	27.06	1.653	19.17	1.126					100-110	14.39	294.9	89.8,89.8
120	22.28	1.984	15.71	1.381					110-120	11.28	306.2	93.2,93.2
130	18.11	2.185	12.61	1.872					120-130	8.699	314.9	95.9,95.9
140	14.34	2.543	8.401	2.301					130-140	5.983	320.9	97.7,97.7
150	11.16	3.253	5.081	2.622					140-150	4.028	324.9	98.9,98.9
160	7.776	3.950	1.808	2.850					150-160	2.233	327.2	99.6,99.6
170	3.165	4.066	1.435	3.337					160-170	1.029	328.2	99.9,99.9
180	1.448	3.891	1.457	3.981					170-180	0.2640	328.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 111.11 lm

%lum = 33.8%

%lamp = 33.8%

Conical surface Flux(130deg): 190.91 lm

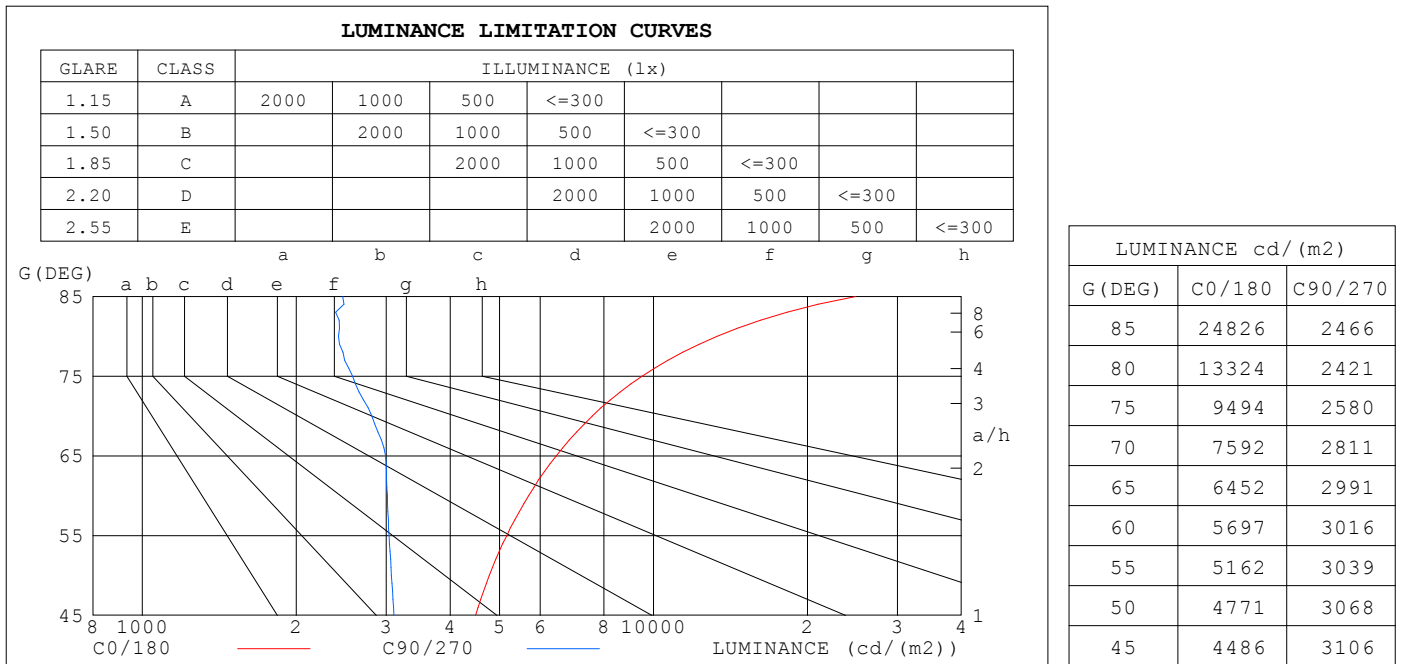
%lum = 58.1%

%lamp = 58.1%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:06 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

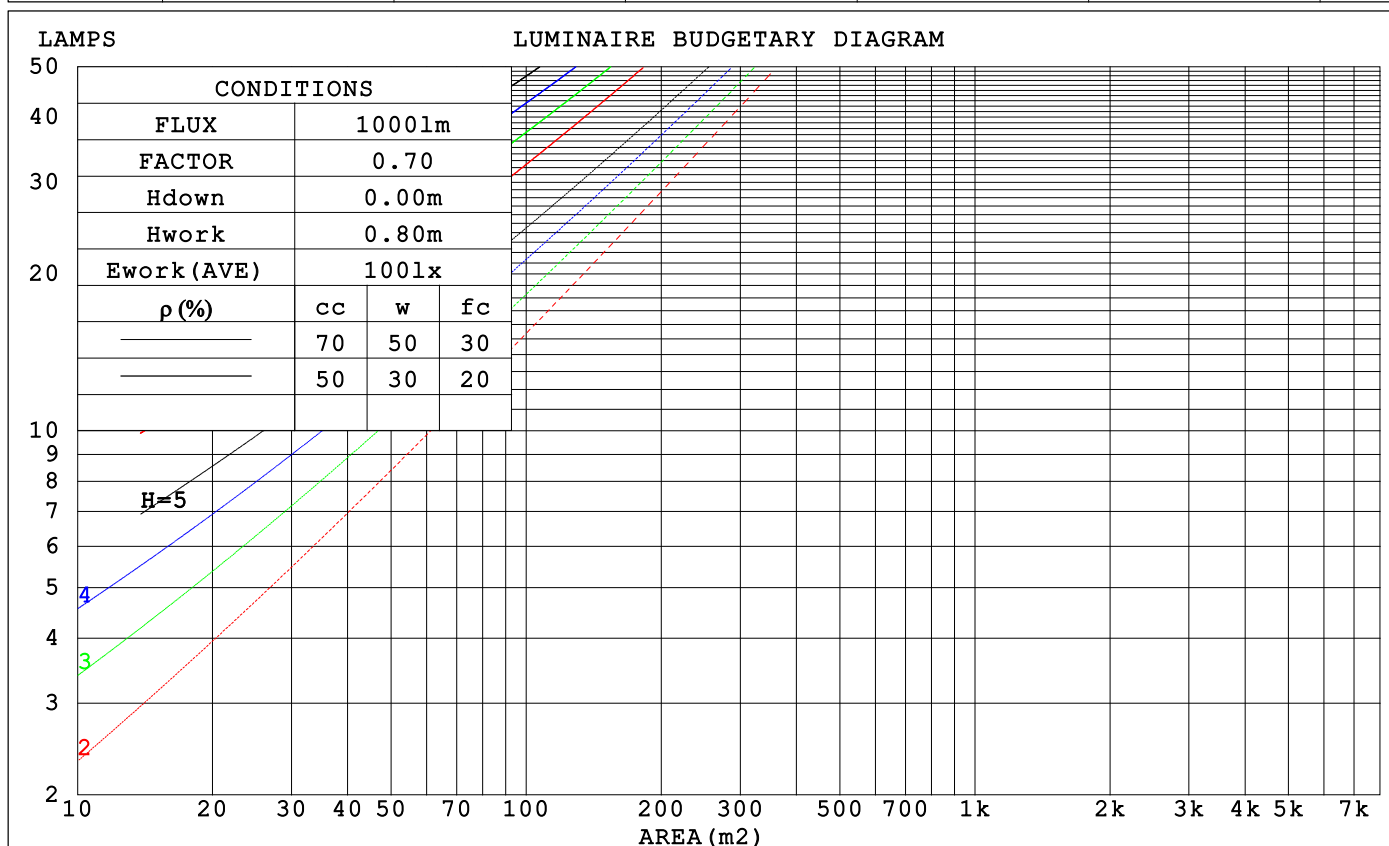


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 January 2025

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

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	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.84	.84	.84	.80
1.0	.95	.90	.85	.91	.86	.82	.83	.79	.76	.76	.73	.70	.69	.67	.64	.61
2.0	.82	.74	.67	.78	.71	.65	.71	.65	.60	.65	.60	.56	.59	.55	.52	.48
3.0	.71	.62	.55	.68	.59	.53	.62	.55	.49	.56	.51	.46	.51	.47	.43	.39
4.0	.62	.53	.45	.59	.51	.44	.54	.47	.41	.50	.43	.39	.45	.40	.36	.33
5.0	.55	.46	.39	.53	.44	.37	.48	.41	.35	.44	.38	.33	.40	.35	.31	.28
6.0	.49	.40	.33	.47	.39	.32	.43	.36	.30	.40	.33	.29	.36	.31	.27	.24
7.0	.44	.35	.29	.43	.34	.28	.39	.32	.27	.36	.30	.25	.33	.28	.24	.21
8.0	.40	.32	.26	.39	.31	.25	.36	.29	.24	.33	.27	.22	.30	.25	.21	.19
9.0	.37	.28	.23	.35	.28	.22	.33	.26	.21	.30	.24	.20	.28	.23	.19	.17
10.0	.34	.26	.21	.33	.25	.20	.30	.24	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 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	.381	.217	.069	.368	.210	.067	.343	.197	.063	.320	.184	.059	.298	.173	.056		
2.0	.331	.181	.056	.319	.176	.054	.296	.165	.051	.275	.154	.048	.256	.145	.046		
3.0	.294	.157	.047	.283	.152	.046	.263	.143	.043	.244	.134	.041	.227	.125	.039		
4.0	.265	.138	.041	.255	.134	.039	.237	.126	.037	.220	.118	.036	.203	.111	.034		
5.0	.241	.123	.036	.232	.119	.035	.215	.112	.033	.200	.105	.031	.185	.099	.030		
6.0	.221	.111	.032	.213	.108	.031	.197	.101	.029	.183	.095	.028	.170	.089	.027		
7.0	.204	.101	.029	.196	.098	.028	.182	.092	.027	.169	.087	.025	.157	.081	.024		
8.0	.189	.092	.026	.182	.090	.025	.169	.085	.024	.157	.080	.023	.146	.075	.022		
9.0	.176	.085	.024	.170	.083	.023	.158	.078	.022	.147	.074	.021	.136	.069	.020		
10.0	.165	.079	.022	.159	.077	.021	.148	.073	.020	.138	.068	.019	.128	.064	.018		

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	.343	.343	.343	.293	.293	.293	.200	.200	.200	.115	.115	.115	.037	.037	.037		
1.0	.339	.309	.283	.290	.266	.243	.198	.183	.168	.114	.106	.098	.037	.034	.032		
2.0	.332	.287	.248	.285	.247	.215	.195	.171	.150	.112	.099	.088	.036	.032	.029		
3.0	.325	.270	.227	.279	.233	.196	.191	.162	.138	.110	.095	.081	.035	.031	.027		
4.0	.317	.258	.212	.272	.223	.185	.187	.155	.130	.108	.091	.077	.035	.030	.025		
5.0	.310	.248	.203	.266	.215	.176	.183	.150	.124	.106	.088	.074	.034	.029	.024		
6.0	.302	.240	.196	.260	.208	.170	.179	.146	.120	.104	.086	.072	.034	.028	.024		
7.0	.295	.234	.190	.254	.202	.166	.175	.142	.118	.102	.084	.070	.033	.027	.023		
8.0	.289	.228	.186	.248	.198	.163	.172	.139	.115	.100	.082	.069	.032	.027	.023		
9.0	.282	.223	.183	.243	.194	.160	.169	.136	.114	.098	.080	.068	.032	.026	.022		
10.0	.276	.219	.181	.238	.190	.158	.165	.134	.112	.096	.079	.067	.031	.026	.022		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 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	17.9	19.2	18.4	19.7	20.3	15.6	16.9	16.1	17.4	18.0
3H	20.7	22.0	21.3	22.5	23.2	17.2	18.4	17.8	19.0	19.7
4H	22.3	23.5	22.9	24.1	24.7	17.8	19.0	18.4	19.6	20.3
6H	24.1	25.2	24.7	25.8	26.5	18.3	19.4	18.9	20.0	20.7
8H	25.1	26.2	25.7	26.8	27.5	18.5	19.6	19.1	20.2	20.9
12H	26.2	27.3	26.9	27.9	28.6	18.6	19.7	19.3	20.3	21.0
4H 2H	18.4	19.6	19.0	20.1	20.8	16.7	17.9	17.3	18.5	19.2
3H	21.4	22.5	22.0	23.1	23.8	18.6	19.7	19.3	20.3	21.0
4H	23.2	24.1	23.8	24.8	25.5	19.5	20.4	20.1	21.1	21.8
6H	25.2	26.0	25.8	26.7	27.5	20.2	21.0	20.8	21.7	22.5
8H	26.3	27.1	27.0	27.8	28.6	20.4	21.2	21.1	21.9	22.7
12H	27.6	28.3	28.3	29.0	29.9	20.7	21.4	21.4	22.1	22.9
8H 4H	23.5	24.3	24.1	24.9	25.7	20.5	21.3	21.2	22.0	22.8
6H	25.7	26.4	26.4	27.1	27.9	21.6	22.2	22.3	22.9	23.8
8H	27.0	27.6	27.8	28.4	29.2	22.1	22.7	22.8	23.4	24.2
12H	28.6	29.1	29.3	29.9	30.7	22.5	23.0	23.2	23.8	24.7
12H 4H	23.5	24.2	24.2	24.9	25.7	20.8	21.6	21.5	22.3	23.1
6H	25.8	26.4	26.5	27.1	28.0	22.1	22.7	22.8	23.4	24.3
8H	27.2	27.7	28.0	28.5	29.4	22.8	23.3	23.5	24.1	24.9
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	+ 0.2 / - 0.3					+ 0.3 / - 0.5				

CIE Pub.117, 328.5 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -3.9$)
Area: 0.02 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 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:

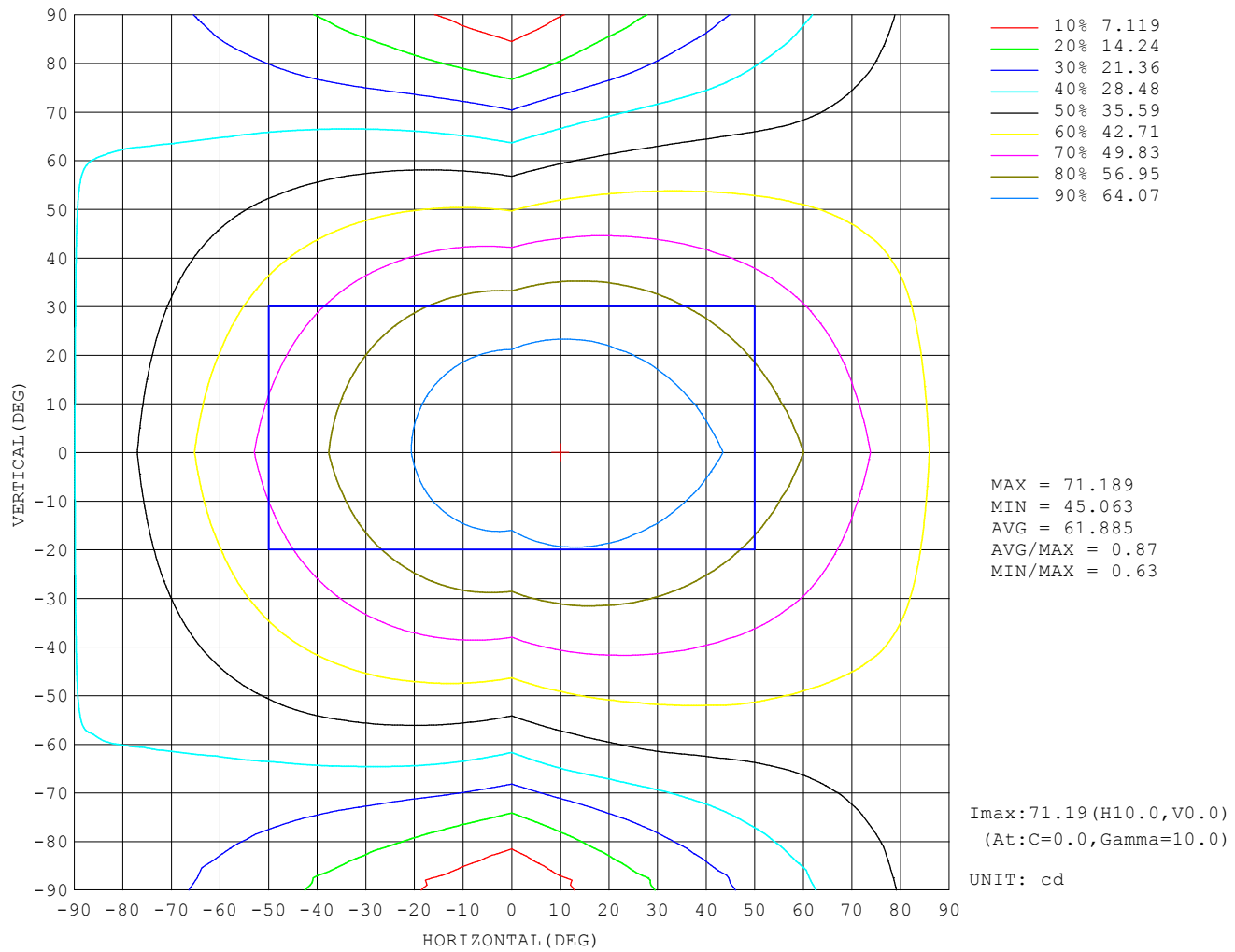
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	28	46	34	27	44	33	27	20
0.80	56	43	35	55	43	35	52	41	34	26
1.00	64	51	43	62	50	42	58	50	41	32
1.25	71	58	50	69	57	49	64	54	47	37
1.50	76	64	55	73	62	54	68	59	52	41
2.00	83	72	64	80	70	63	74	66	60	47
2.50	88	78	70	84	75	68	78	70	64	51
3.00	92	82	75	88	80	73	81	74	69	55
4.00	97	89	82	92	85	79	85	79	74	59
5.00	100	93	87	95	89	84	87	82	78	62
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: 06 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:

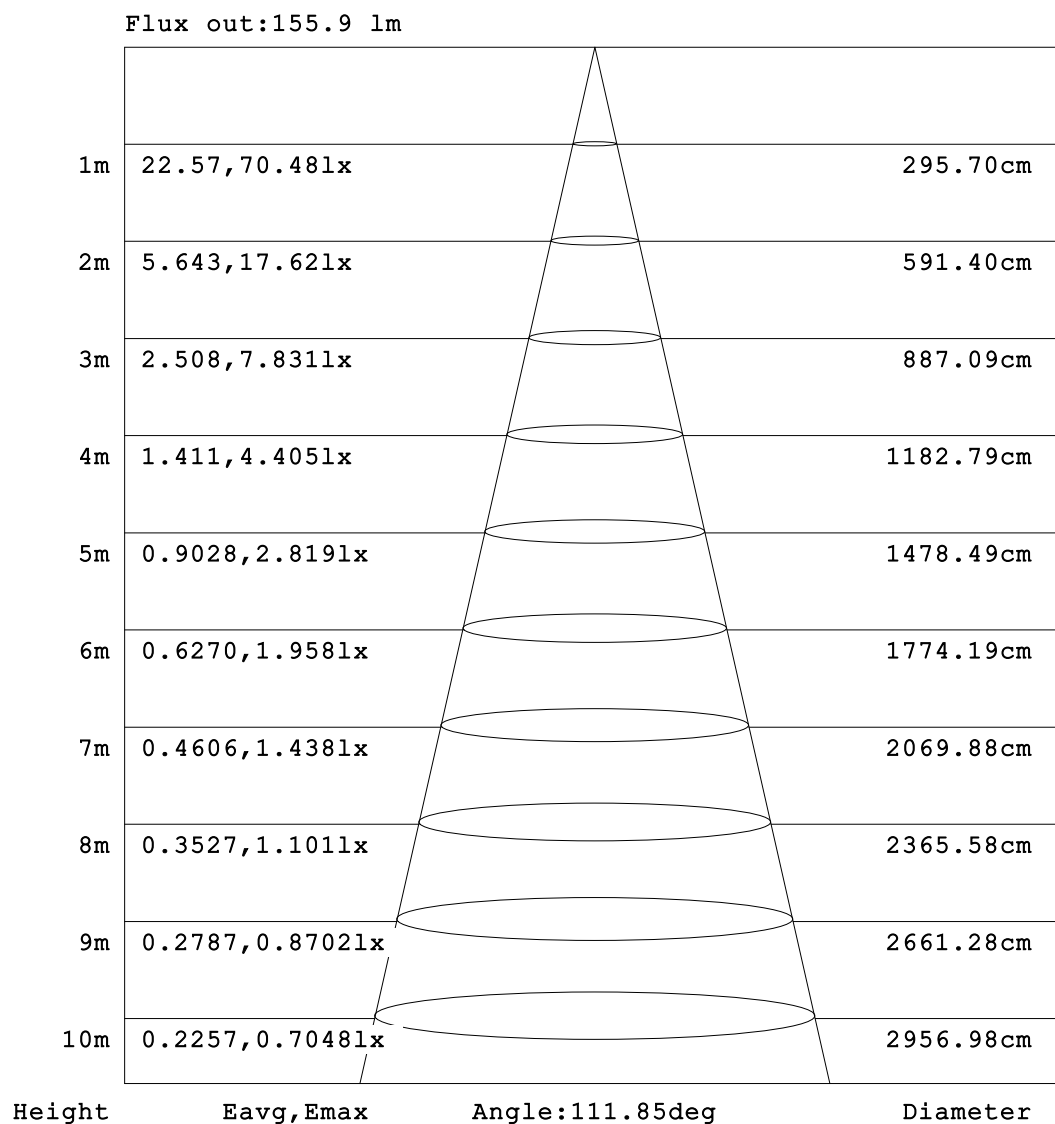
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:06 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

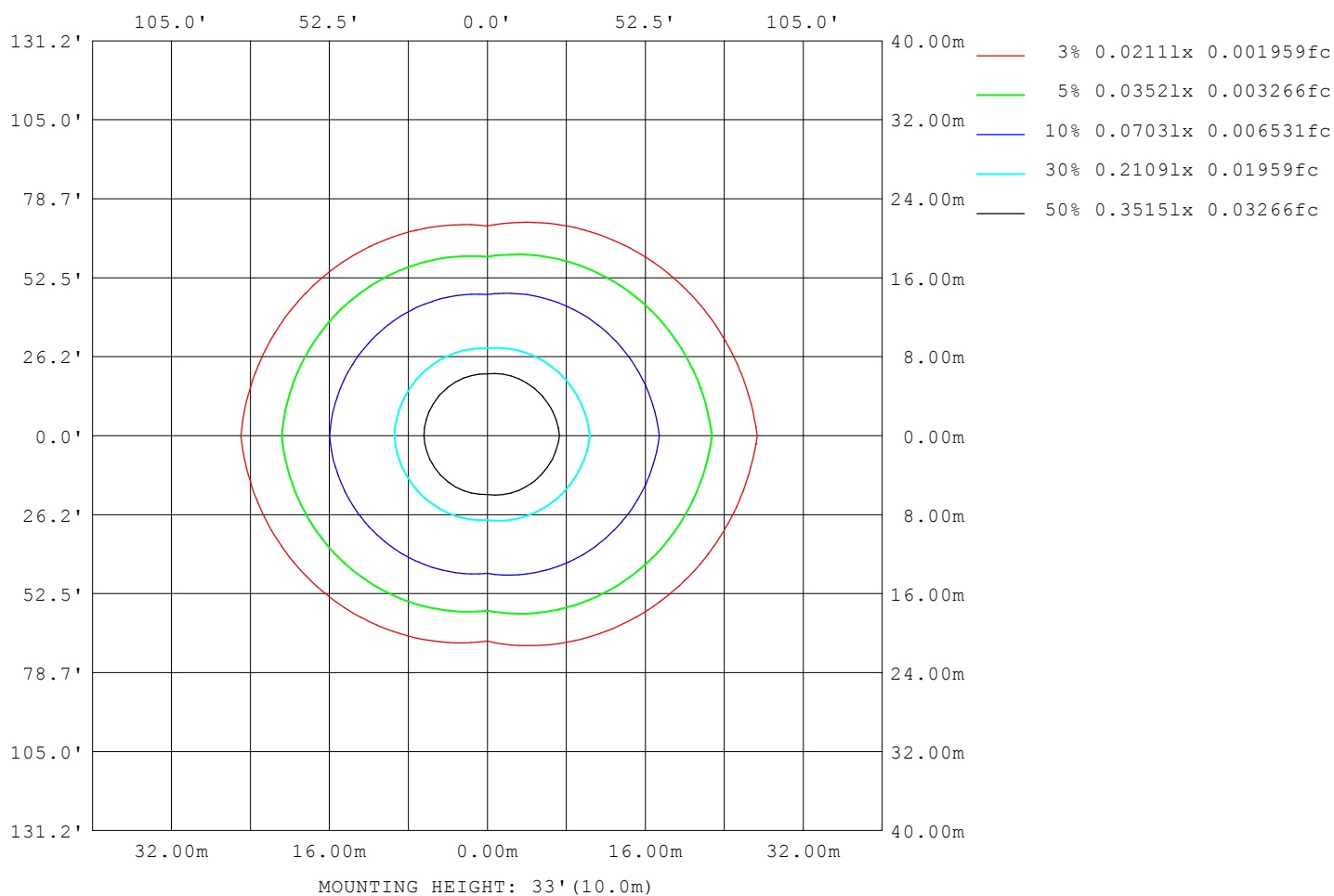


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:06 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: 06 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:0.1120A P:10.500W PF:0.9260 Freq:50.00Hz Lamp Flux:328.457x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

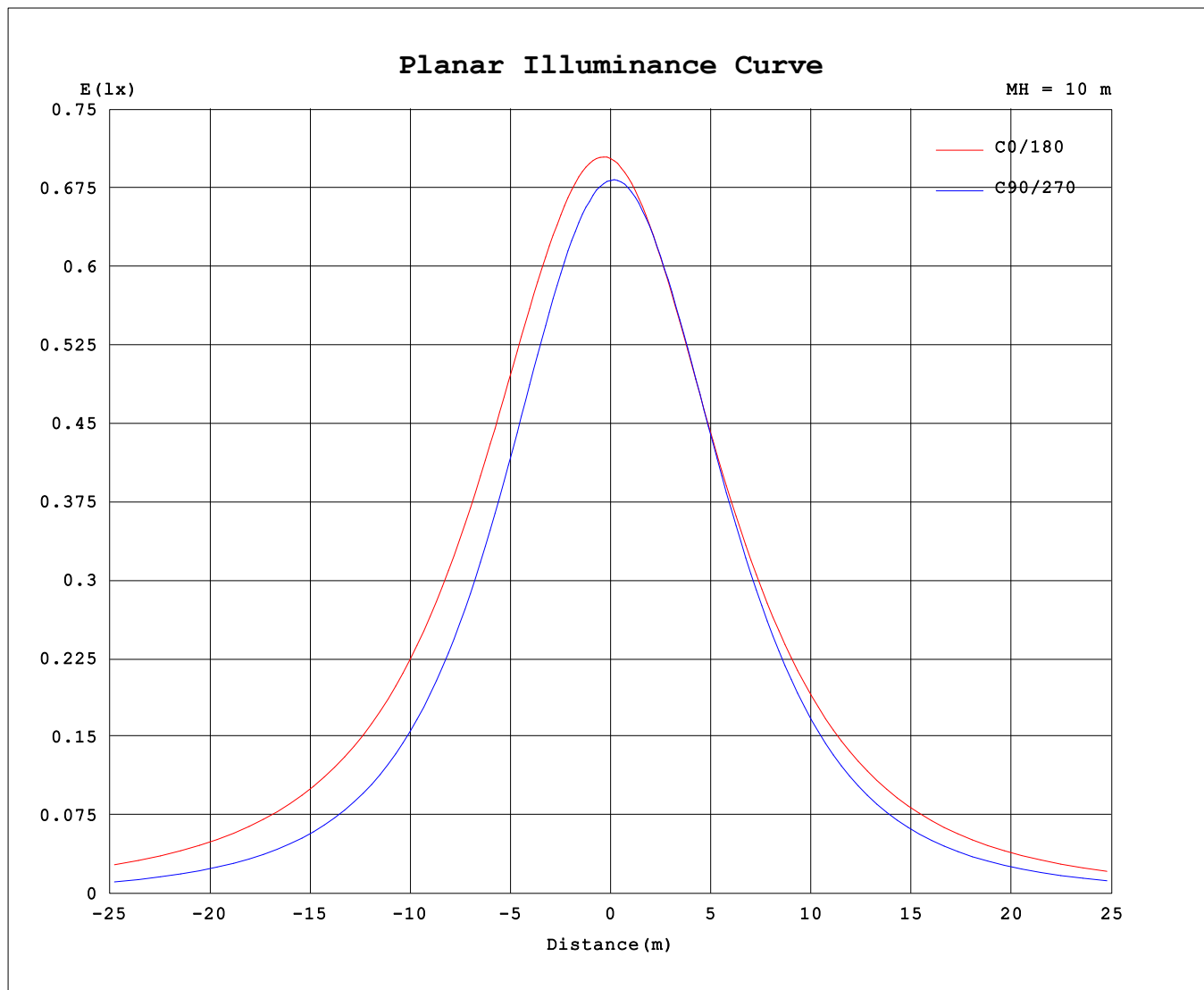
AvgL	cd/m2
L_0~180 (65) av	5677
L_0~180 (75) av	8184
L_0~180 (85) av	21018
L_90~270 (65) av	3143
L_90~270 (75) av	2895
L_90~270 (85) av	3199
L_45 (65) av	4068
L_45 (75) av	4841
L_45 (85) av	9786

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 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: 06 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	69.3	69.3	69.3	69.3															
5	69.9	68.6	68.3	69.3															
10	70.1	67.3	66.9	68.7															
15	69.9	65.5	65.3	67.4															
20	69.5	63.1	63.4	65.6															
25	68.7	60.2	61.3	63.1															
30	67.5	56.8	59.2	59.9															
35	66.1	53.0	57.2	56.5															
40	64.5	48.9	55.1	52.5															
45	62.5	44.6	52.9	47.8															
50	60.4	40.0	50.6	43.0															
55	58.4	35.4	48.0	37.9															
60	56.1	30.6	45.2	32.7															
65	53.7	25.7	42.2	27.5															
70	51.2	19.5	39.3	22.1															
75	48.4	13.6	36.3	16.4															
80	45.6	8.54	33.4	10.9															
85	42.6	4.36	30.6	6.79															
90	39.7	1.59	28.0	2.61															
95	36.6	1.18	25.5	1.42															
100	32.7	1.74	23.2	1.01															
105	29.9	1.51	21.1	1.00															
110	27.1	1.65	19.2	1.13															
115	23.9	1.84	17.4	1.26															
120	22.3	1.98	15.7	1.38															
125	20.4	2.08	14.3	1.59															
130	18.1	2.18	12.6	1.87															
135	15.2	2.36	10.3	2.11															
140	14.3	2.54	8.40	2.30															
145	13.3	2.91	6.85	2.48															
150	11.2	3.25	5.08	2.62															
155	9.42	3.60	3.10	2.75															
160	7.78	3.95	1.81	2.85															
165	5.73	4.06	1.49	3.02															
170	3.16	4.07	1.44	3.34															
175	1.76	4.04	1.41	3.65															
180	1.45	3.89	1.46	3.98															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 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: