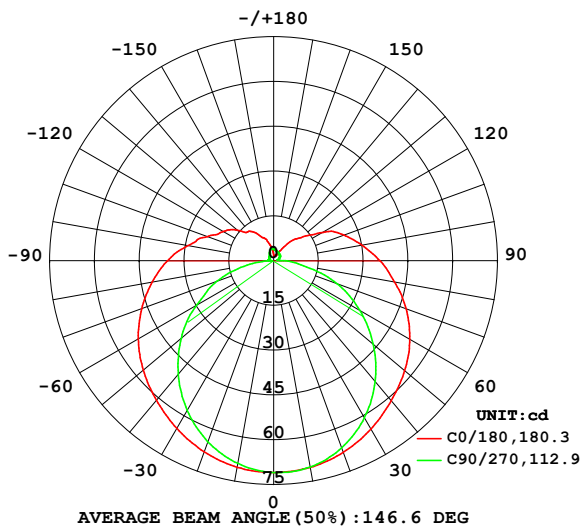


LUMINAIRE PHOTOMETRIC TEST REPORT

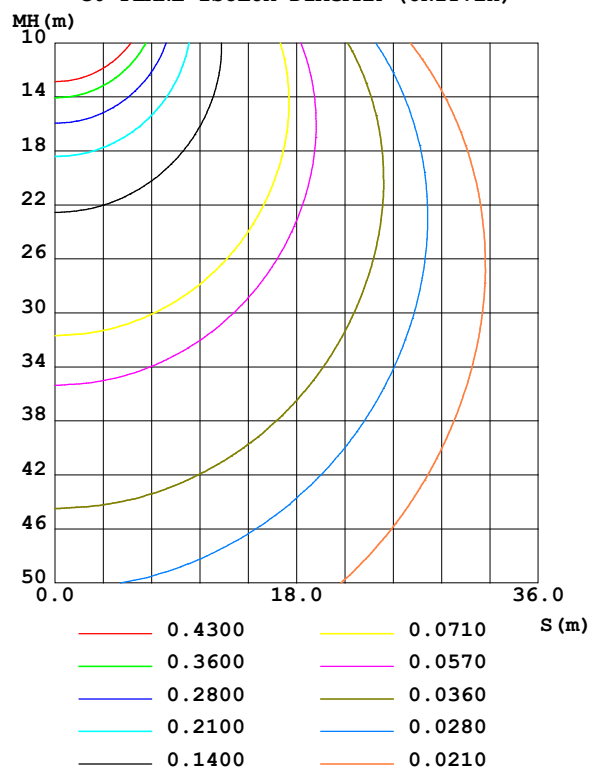
Test:U:101.40V I:0.1110A P:10.400W PF:0.9260 Freq:50.00Hz Lamp Flux:335.734x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 32.28 lm/W
MODEL	80005-50MP	I _{max} (cd)	71.05	S/MH(C0/180)	1.38	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.27	
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	335.73	η UP,DN(C0-180)	10.3,39.4	
NOMINAL FLUX(lm)	335.734	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.6,40.7	
LAMPS INSIDE	1	η up (%)	19.9	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	100	η down (%)	80.1	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°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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	70.32	68.96	70.28	70.18					0- 10	6.726	6.726	2,2
20	68.11	64.54	68.30	66.72					10- 20	19.40	26.12	7.78,7.78
30	64.90	57.94	65.18	60.75					20- 30	29.87	55.99	16.7,16.7
40	61.06	49.73	61.29	52.87					30- 40	37.18	93.17	27.8,27.8
50	57.04	40.36	57.29	43.57					40- 50	40.97	134.1	40,40
60	52.36	29.76	52.67	33.35					50- 60	41.16	175.3	52.2,52.2
70	47.01	20.25	47.21	22.69					60- 70	37.88	213.2	63.5,63.5
80	41.32	9.084	41.11	10.22					70- 80	31.62	244.8	72.9,72.9
90	35.54	1.996	35.59	3.394					80- 90	24.03	268.8	80.1,80.1
100	29.20	1.807	30.12	1.135					90-100	18.75	287.6	85.7,85.7
110	23.60	1.581	25.10	1.820					100-110	15.23	302.8	90.2,90.2
120	19.56	1.847	19.05	2.288					110-120	11.86	314.7	93.7,93.7
130	15.97	1.997	12.14	2.659					120-130	8.493	323.2	96.3,96.3
140	12.90	2.227	7.829	2.911					130-140	5.636	328.8	97.9,97.9
150	9.918	2.929	3.222	3.145					140-150	3.521	332.3	99,99
160	7.731	3.605	1.903	3.313					150-160	2.032	334.3	99.6,99.6
170	4.615	4.113	1.631	3.583					160-170	1.082	335.4	99.9,99.9
180	1.807	3.932	1.824	3.958					170-180	0.3068	335.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 113.4 lm

%lum = 33.8%

%lamp = 33.8%

Conical surface Flux(130deg): 194.79 lm

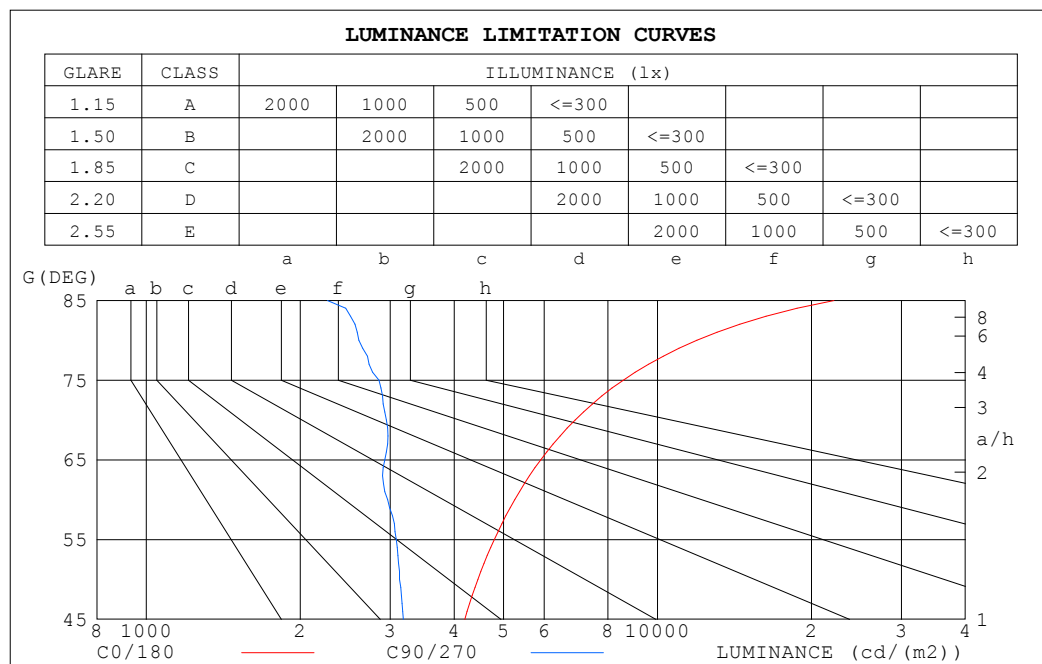
%lum = 58.0%

%lamp = 58.0%

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



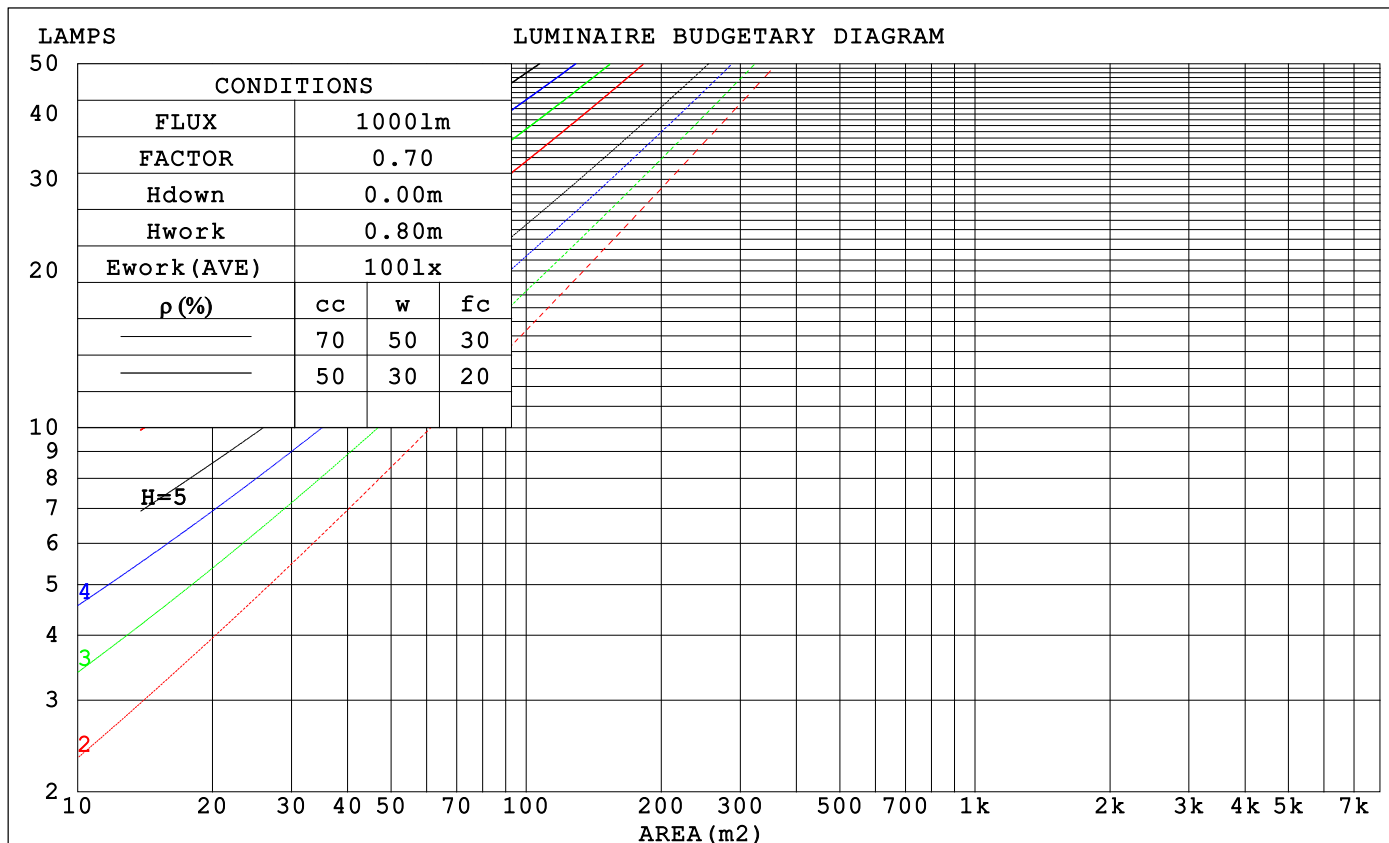
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22132	2262
80	11943	2606
75	8571	2851
70	6898	2950
65	5906	2925
60	5255	2965
55	4793	3084
50	4453	3128
45	4196	3181

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	1.00	1.00	1.00	.92	.92	.92	.84	.84	.84	.80
1.0	.95	.90	.85	.91	.86	.82	.83	.79	.76	.76	.73	.70	.69	.67	.64	.61
2.0	.81	.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	.49	.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	.382	.217	.069	.369	.210	.067	.344	.197	.063	.321	.185	.059	.300	.174	.056	
2.0	.332	.182	.056	.320	.176	.054	.297	.165	.051	.276	.155	.049	.257	.145	.046	
3.0	.295	.157	.047	.284	.152	.046	.264	.143	.043	.245	.134	.041	.227	.126	.039	
4.0	.266	.138	.041	.256	.134	.040	.237	.126	.038	.220	.118	.036	.204	.111	.034	
5.0	.241	.123	.036	.233	.119	.035	.216	.112	.033	.200	.106	.031	.185	.099	.030	
6.0	.221	.111	.032	.213	.108	.031	.198	.101	.029	.183	.095	.028	.170	.089	.027	
7.0	.204	.101	.029	.197	.098	.028	.183	.092	.027	.169	.087	.025	.157	.082	.024	
8.0	.189	.092	.026	.182	.090	.025	.170	.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	

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	.342	.342	.342	.293	.293	.293	.200	.200	.200	.115	.115	.115	.037	.037	.037	
1.0	.338	.309	.282	.290	.265	.242	.198	.182	.168	.114	.105	.098	.037	.034	.032	
2.0	.332	.286	.247	.284	.246	.214	.195	.170	.149	.112	.099	.087	.036	.032	.028	
3.0	.324	.269	.226	.278	.232	.196	.191	.161	.137	.110	.094	.081	.035	.031	.027	
4.0	.317	.257	.212	.272	.222	.184	.187	.155	.129	.108	.091	.077	.035	.030	.025	
5.0	.309	.247	.202	.265	.214	.175	.183	.149	.124	.106	.088	.074	.034	.029	.024	
6.0	.301	.239	.195	.259	.207	.170	.179	.145	.120	.104	.085	.071	.033	.028	.024	
7.0	.294	.233	.190	.253	.202	.165	.175	.141	.117	.102	.083	.070	.033	.027	.023	
8.0	.288	.227	.186	.248	.197	.162	.171	.138	.115	.100	.082	.068	.032	.027	.023	
9.0	.282	.222	.183	.243	.193	.159	.168	.136	.113	.098	.080	.067	.032	.026	.022	
10.0	.276	.218	.180	.238	.190	.157	.165	.133	.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	17.3	18.7	17.8	19.2	19.8	15.3	16.7	15.8	17.2	17.8
3H	20.1	21.3	20.7	21.9	22.5	17.0	18.3	17.6	18.8	19.5
4H	21.6	22.8	22.2	23.4	24.1	17.7	18.9	18.3	19.5	20.2
6H	23.4	24.5	24.0	25.1	25.8	18.3	19.4	18.9	20.0	20.7
8H	24.3	25.4	24.9	26.0	26.7	18.5	19.6	19.1	20.2	20.9
12H	25.5	26.5	26.1	27.1	27.8	18.6	19.6	19.2	20.2	21.0
4H 2H	17.8	19.0	18.4	19.6	20.3	16.4	17.6	17.0	18.2	18.8
3H	20.8	21.9	21.4	22.5	23.2	18.4	19.4	19.0	20.0	20.7
4H	22.5	23.5	23.2	24.1	24.9	19.3	20.2	19.9	20.9	21.6
6H	24.5	25.3	25.1	26.0	26.8	20.0	20.9	20.7	21.5	22.3
8H	25.6	26.3	26.2	27.0	27.8	20.3	21.1	21.0	21.8	22.6
12H	26.8	27.6	27.5	28.3	29.1	20.5	21.2	21.2	21.9	22.7
8H 4H	22.8	23.6	23.5	24.3	25.1	20.2	21.0	20.9	21.7	22.5
6H	25.0	25.7	25.7	26.4	27.2	21.3	22.0	22.0	22.7	23.5
8H	26.3	26.9	27.0	27.6	28.5	21.8	22.4	22.5	23.1	24.0
12H	27.8	28.3	28.6	29.1	30.0	22.2	22.7	22.9	23.4	24.3
12H 4H	22.8	23.6	23.5	24.3	25.1	20.5	21.2	21.2	21.9	22.7
6H	25.1	25.7	25.8	26.4	27.3	21.8	22.4	22.5	23.1	24.0
8H	26.5	27.0	27.2	27.7	28.6	22.4	22.9	23.2	23.7	24.6
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					+ 0.2 / - 0.4				

CIE Pub.117, 335.7 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -3.8$)
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:

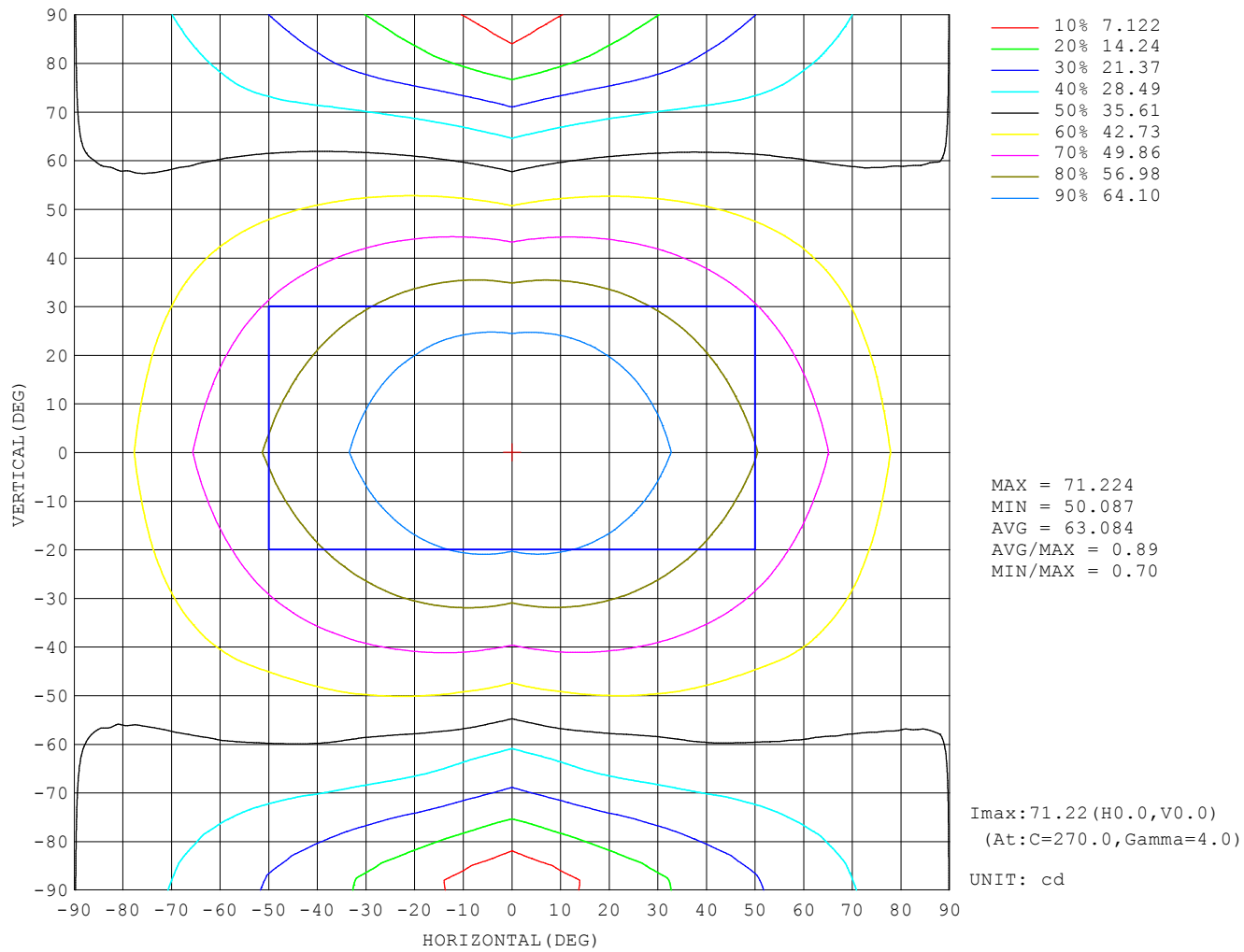
UTILIZATION FACTORS TABLE

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	62	74	66	59	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	96	89	82	92	85	79	85	79	74	59
5.00	99	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:

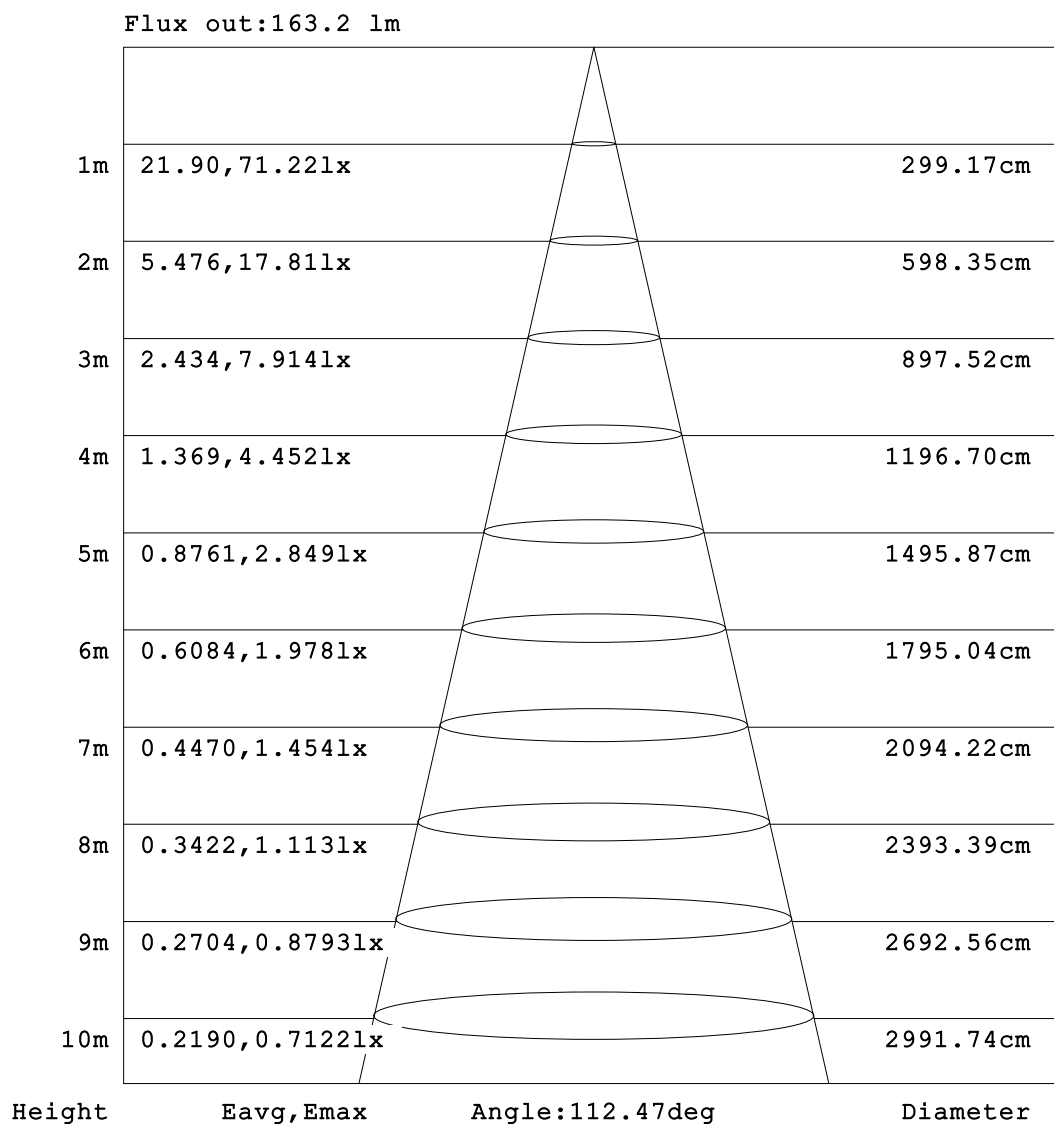
ISOCANDELA DIAGRAM



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

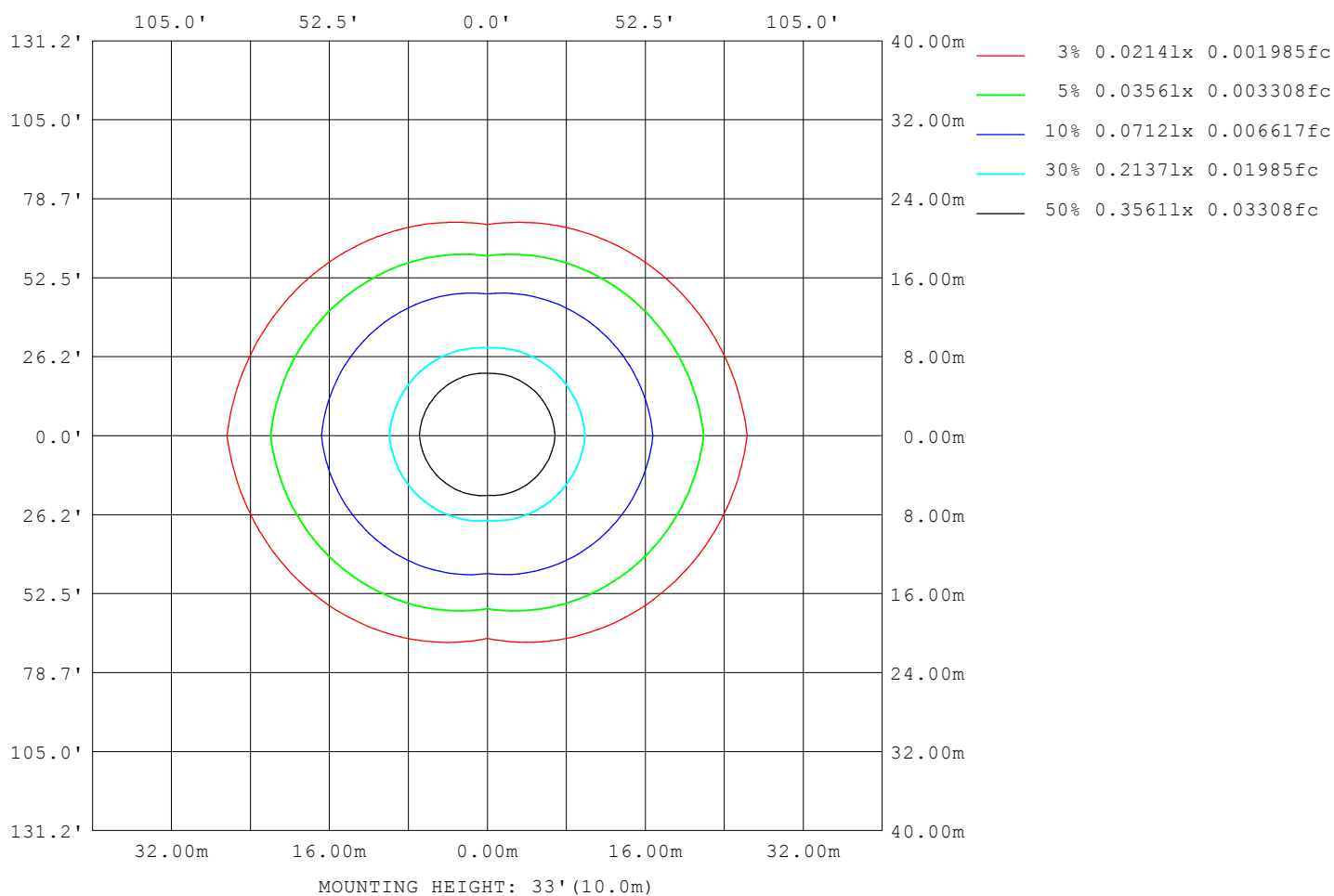


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1110A P:10.400W PF:0.9260 Freq:50.00Hz Lamp Flux:335.734x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

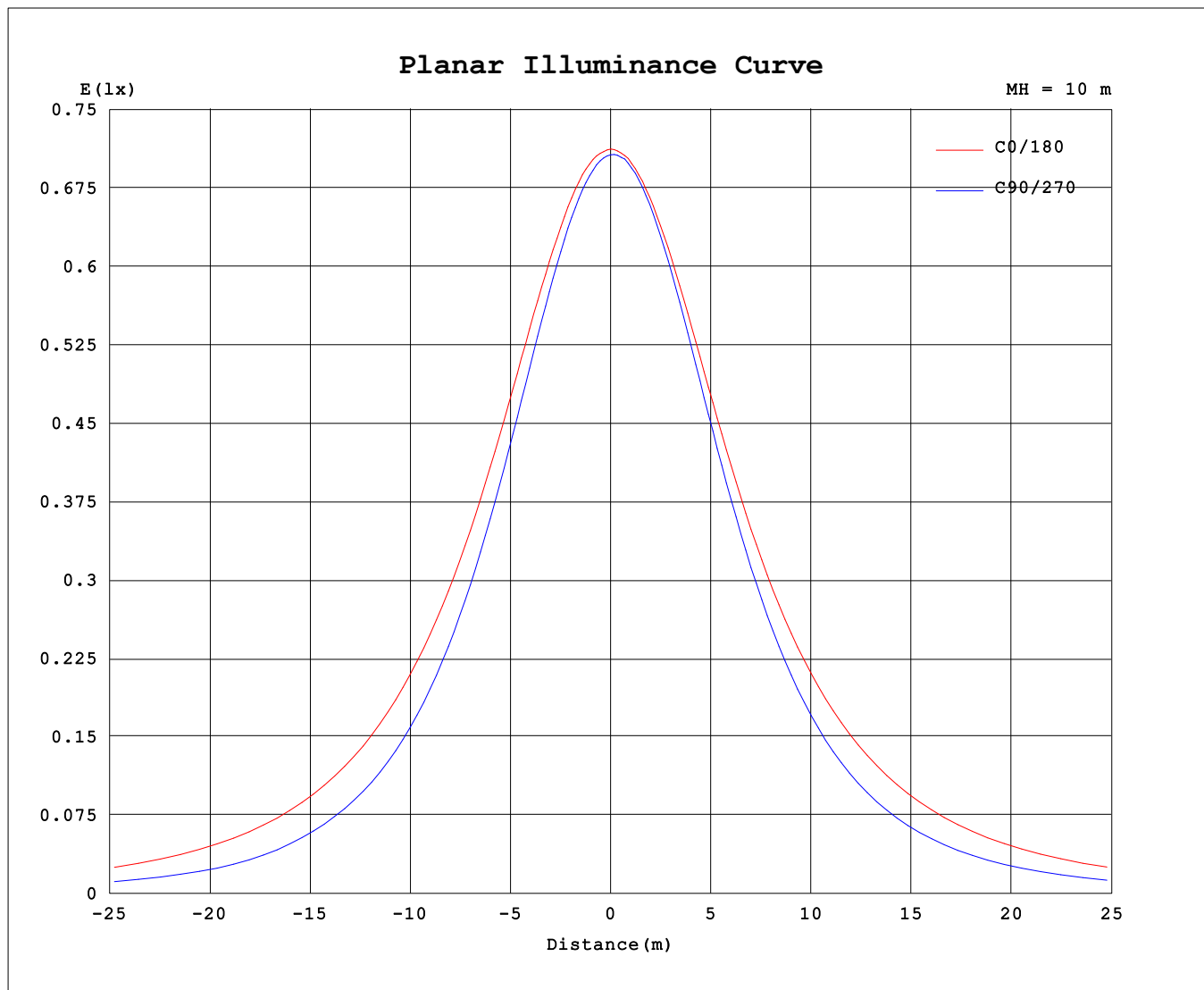
AvgL	cd/m2
L_0~180 (65) av	5901
L_0~180 (75) av	8547
L_0~180 (85) av	22015
L_90~270 (65) av	3132
L_90~270 (75) av	3023
L_90~270 (85) av	2993
L_45 (65) av	4176
L_45 (75) av	5104
L_45 (85) av	10155

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	71.0	71.0	71.0	71.0															
5	70.8	70.3	70.9	70.9															
10	70.3	69.0	70.3	70.2															
15	69.3	67.1	69.5	68.8															
20	68.1	64.5	68.3	66.7															
25	66.6	61.5	66.9	64.0															
30	64.9	57.9	65.2	60.7															
35	63.0	54.0	63.2	57.0															
40	61.1	49.7	61.3	52.9															
45	59.1	45.1	59.3	48.4															
50	57.0	40.4	57.3	43.6															
55	54.8	35.5	55.1	38.5															
60	52.4	29.8	52.7	33.4															
65	49.7	24.8	50.0	28.1															
70	47.0	20.3	47.2	22.7															
75	44.2	14.8	44.3	16.5															
80	41.3	9.08	41.1	10.2															
85	38.4	3.96	38.3	6.48															
90	35.5	2.00	35.6	3.39															
95	32.6	1.27	32.8	1.60															
100	29.2	1.81	30.1	1.14															
105	26.7	1.75	27.5	1.54															
110	23.6	1.58	25.1	1.82															
115	20.9	1.75	22.8	2.05															
120	19.6	1.85	19.1	2.29															
125	18.1	1.94	15.0	2.51															
130	16.0	2.00	12.1	2.66															
135	13.5	2.07	10.3	2.79															
140	12.9	2.23	7.83	2.91															
145	11.7	2.55	4.78	3.01															
150	9.92	2.93	3.22	3.15															
155	8.51	3.30	2.22	3.23															
160	7.73	3.61	1.90	3.31															
165	5.94	3.90	1.69	3.46															
170	4.62	4.11	1.63	3.58															
175	2.93	4.07	1.55	3.72															
180	1.81	3.93	1.82	3.96															

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: