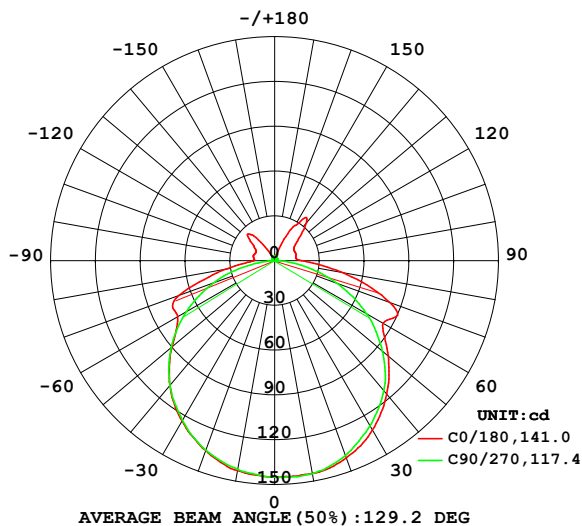


LUMINAIRE PHOTOMETRIC TEST REPORT

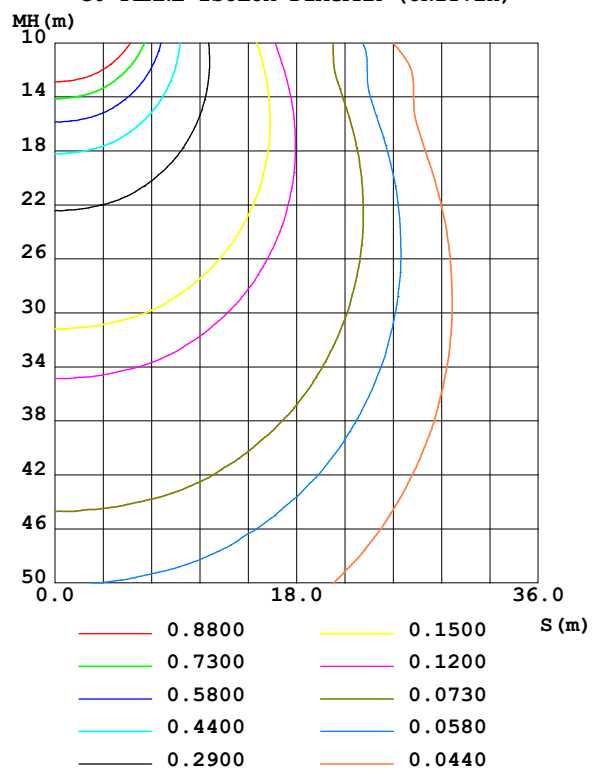
Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.92 lm/W
MODEL	6W灯带	I _{max} (cd)	145.5	S/MH(C0/180)	1.28	
NOMINAL POWER(W)	6	LOR(%)	100.0	S/MH(C90/270)	1.27	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	533.44	η UP,DN(C0-180)	5.8,46.5	
NOMINAL FLUX(lm)	533.441	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	4.8,42.9	
LAMPS INSIDE	1	η up (%)	10.6	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	230	η down (%)	89.4	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:07 May 2024

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	144.8	144.9	142.9	142.0					0- 10	13.77	13.77	2.58,2.58
20	140.7	138.9	135.3	135.1					10- 20	39.89	53.66	10.1,10.1
30	131.1	127.8	124.1	123.6					20- 30	61.12	114.8	21.5,21.5
40	116.8	113.8	109.3	109.1					30- 40	75.04	189.8	35.6,35.6
50	99.31	94.20	89.81	90.38					40- 50	79.66	269.5	50.5,50.5
60	83.92	70.94	75.07	68.22					50- 60	74.80	344.3	64.5,64.5
70	82.05	44.57	68.14	43.33					60- 70	68.15	412.4	77.3,77.3
80	45.66	18.06	33.54	16.12					70- 80	46.35	458.8	86,86
90	18.10	1.388	13.99	1.985					80- 90	18.06	476.8	89.4,89.4
100	14.40	1.094	14.54	1.586					90-100	8.733	485.6	91,91
110	15.05	1.302	14.06	1.829					100-110	8.572	494.2	92.6,92.6
120	15.02	1.533	14.71	2.046					110-120	8.042	502.2	94.1,94.1
130	19.52	1.794	22.04	2.285					120-130	8.540	510.7	95.7,95.7
140	33.01	2.069	21.75	2.502					130-140	10.52	521.3	97.7,97.7
150	27.29	2.374	3.681	2.755					140-150	7.891	529.1	99.2,99.2
160	7.291	2.662	3.110	2.914					150-160	3.128	532.3	99.8,99.8
170	2.816	2.897	3.083	3.043					160-170	0.8832	533.2	99.9,99.9
180	2.983	3.034	2.970	3.021					170-180	0.2837	533.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 229.75 lm

%lum = 43.1%

%lamp = 43.1%

Conical surface Flux(130deg): 379.3 lm

%lum = 71.1%

%lamp = 71.1%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:07 May 2024

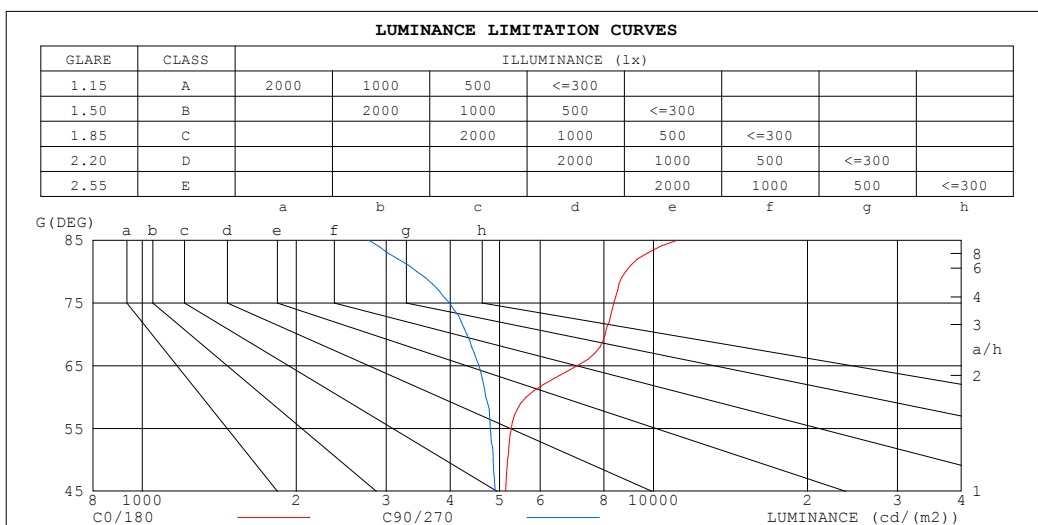
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:8.186m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz

Lamp Flux:533.441x1 lm

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11115	2776
80	8820	3446
75	8359	3988
70	8047	4317
65	7088	4559
60	5630	4699
55	5273	4791
50	5182	4854
45	5138	4907

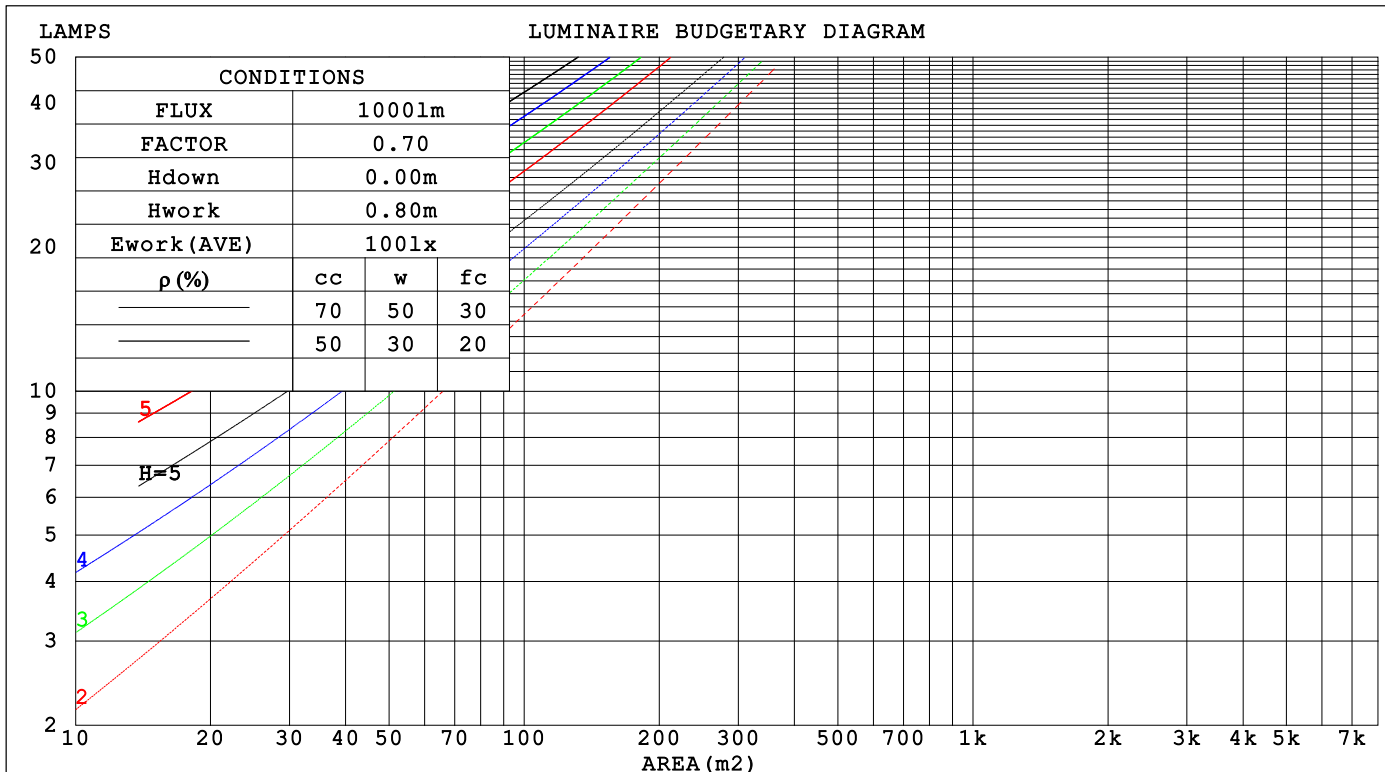
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	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	1.17	1.17	1.17	1.13	1.13	1.13	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89														
1.0	.00	.95	.91	.96	.92	.88	.90	.87	.84	.85	.82	.79	.79	.77	.75	.72														
2.0	.86	.79	.73	.83	.77	.71	.78	.72	.68	.73	.68	.64	.68	.65	.61	.59														
3.0	.75	.66	.59	.72	.65	.58	.68	.61	.56	.64	.58	.54	.60	.55	.51	.49														
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.56	.50	.45	.53	.48	.44	.41														
5.0	.59	.49	.43	.57	.48	.42	.54	.46	.40	.50	.44	.39	.47	.42	.38	.35														
6.0	.53	.43	.37	.51	.42	.36	.48	.41	.35	.45	.39	.34	.43	.37	.33	.30														
7.0	.48	.39	.32	.46	.38	.32	.44	.36	.31	.41	.35	.30	.39	.33	.29	.27														
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.27	.38	.31	.27	.36	.30	.26	.24														
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.28	.24	.33	.27	.23	.21														
10.0	.36	.28	.23	.36	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19														



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	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	.339	.193	.061	.329	.187	.060	.309	.177	.057	.291	.168	.054	.275	.159	.051		
2.0	.310	.170	.052	.301	.166	.051	.283	.157	.049	.267	.150	.047	.252	.143	.045		
3.0	.282	.150	.045	.274	.147	.044	.258	.140	.043	.244	.133	.041	.230	.127	.039		
4.0	.258	.134	.039	.250	.131	.039	.236	.125	.037	.223	.120	.036	.211	.114	.035		
5.0	.236	.120	.035	.229	.118	.034	.217	.113	.033	.205	.108	.032	.194	.103	.031		
6.0	.218	.109	.031	.212	.107	.031	.200	.103	.030	.189	.098	.029	.179	.094	.028		
7.0	.202	.100	.028	.196	.098	.028	.186	.094	.027	.176	.090	.026	.167	.087	.025		
8.0	.188	.092	.026	.183	.090	.025	.173	.086	.025	.164	.083	.024	.156	.080	.023		
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.146	.074	.021		
10.0	.165	.079	.022	.160	.077	.022	.152	.075	.021	.145	.072	.020	.137	.069	.020		

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	.271	.271	.271	.232	.232	.232	.158	.158	.158	.091	.091	.091	.029	.029	.029		
1.0	.264	.237	.214	.226	.204	.184	.154	.140	.127	.089	.081	.074	.028	.026	.024		
2.0	.257	.214	.178	.220	.184	.154	.151	.127	.107	.087	.074	.063	.028	.024	.020		
3.0	.249	.197	.155	.214	.170	.134	.147	.118	.094	.085	.069	.056	.027	.022	.018		
4.0	.242	.184	.140	.207	.159	.122	.143	.111	.086	.083	.065	.051	.027	.021	.017		
5.0	.234	.174	.129	.201	.151	.113	.139	.105	.080	.080	.062	.047	.026	.020	.016		
6.0	.227	.166	.122	.195	.144	.106	.135	.101	.075	.078	.059	.045	.025	.019	.015		
7.0	.220	.159	.116	.189	.138	.101	.131	.097	.072	.076	.057	.043	.025	.019	.014		
8.0	.214	.153	.112	.184	.133	.098	.127	.093	.069	.074	.055	.041	.024	.018	.014		
9.0	.207	.149	.109	.179	.129	.095	.124	.091	.067	.072	.054	.040	.023	.018	.013		
10.0	.202	.144	.106	.174	.125	.093	.121	.088	.066	.070	.052	.039	.023	.017	.013		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.: COULEUR			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	18.5	19.9	18.9	20.3	20.7	17.8	19.2	18.2	19.6	20.0
3H	21.3	22.6	21.8	23.1	23.5	19.5	20.8	19.9	21.2	21.7
4H	22.5	23.8	23.0	24.2	24.7	20.1	21.4	20.6	21.8	22.3
6H	23.5	24.7	24.0	25.1	25.6	20.5	21.7	21.0	22.2	22.7
8H	23.9	25.0	24.4	25.5	26.0	20.7	21.8	21.1	22.3	22.8
12H	24.3	25.4	24.8	25.9	26.4	20.7	21.8	21.2	22.3	22.8
4H 2H	19.2	20.5	19.7	20.9	21.4	18.7	19.9	19.2	20.4	20.9
3H	22.2	23.3	22.7	23.7	24.3	20.6	21.7	21.1	22.2	22.7
4H	23.5	24.5	24.0	25.0	25.5	21.4	22.4	21.9	22.9	23.5
6H	24.6	25.5	25.1	26.0	26.6	21.9	22.8	22.5	23.4	24.0
8H	25.1	25.9	25.6	26.4	27.0	22.1	22.9	22.7	23.5	24.1
12H	25.5	26.3	26.1	26.9	27.5	22.2	23.0	22.8	23.5	24.2
8H 4H	23.7	24.5	24.3	25.1	25.7	22.0	22.8	22.5	23.3	23.9
6H	25.0	25.7	25.6	26.3	26.9	22.7	23.4	23.3	24.0	24.6
8H	25.6	26.2	26.2	26.8	27.5	23.0	23.6	23.6	24.2	24.9
12H	26.2	26.8	26.9	27.4	28.1	23.2	23.7	23.8	24.3	25.0
12H 4H	23.7	24.5	24.3	25.0	25.7	22.1	22.8	22.6	23.4	24.0
6H	25.0	25.7	25.7	26.3	26.9	22.9	23.5	23.5	24.1	24.8
8H	25.7	26.3	26.4	26.9	27.6	23.2	23.8	23.9	24.4	25.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.4				

CIE Pub.117, 533.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.2)
Area: 0.03 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.441x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:

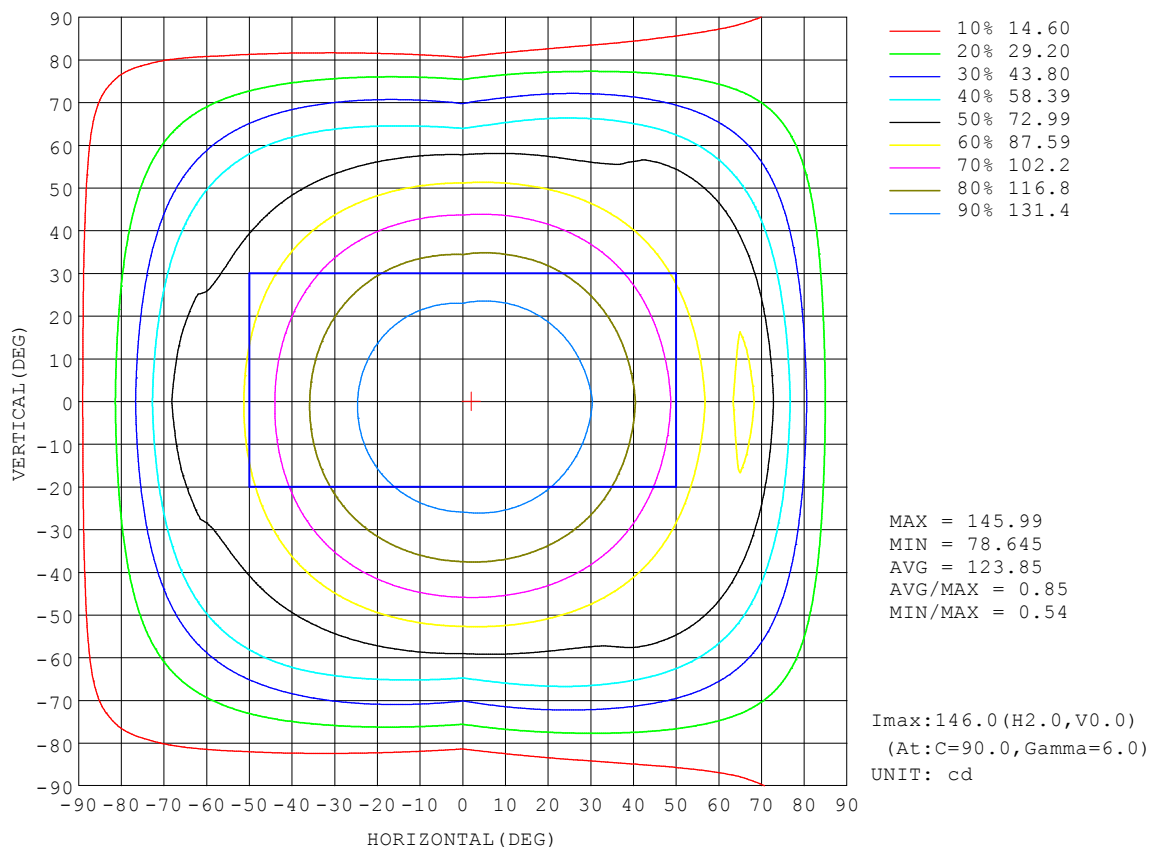
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	40	33	49	39	33	26
0.80	62	50	42	60	49	42	58	48	41	33
1.00	70	58	50	68	57	50	65	58	48	40
1.25	77	65	58	75	64	57	71	62	55	46
1.50	82	71	63	80	70	62	75	67	61	51
2.00	89	80	72	87	78	71	82	74	69	58
2.50	94	85	78	91	83	76	85	79	73	62
3.00	97	89	83	94	87	81	88	83	78	66
4.00	102	95	90	98	92	87	92	87	83	71
5.00	104	99	94	101	96	92	95	91	87	74
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: 07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:

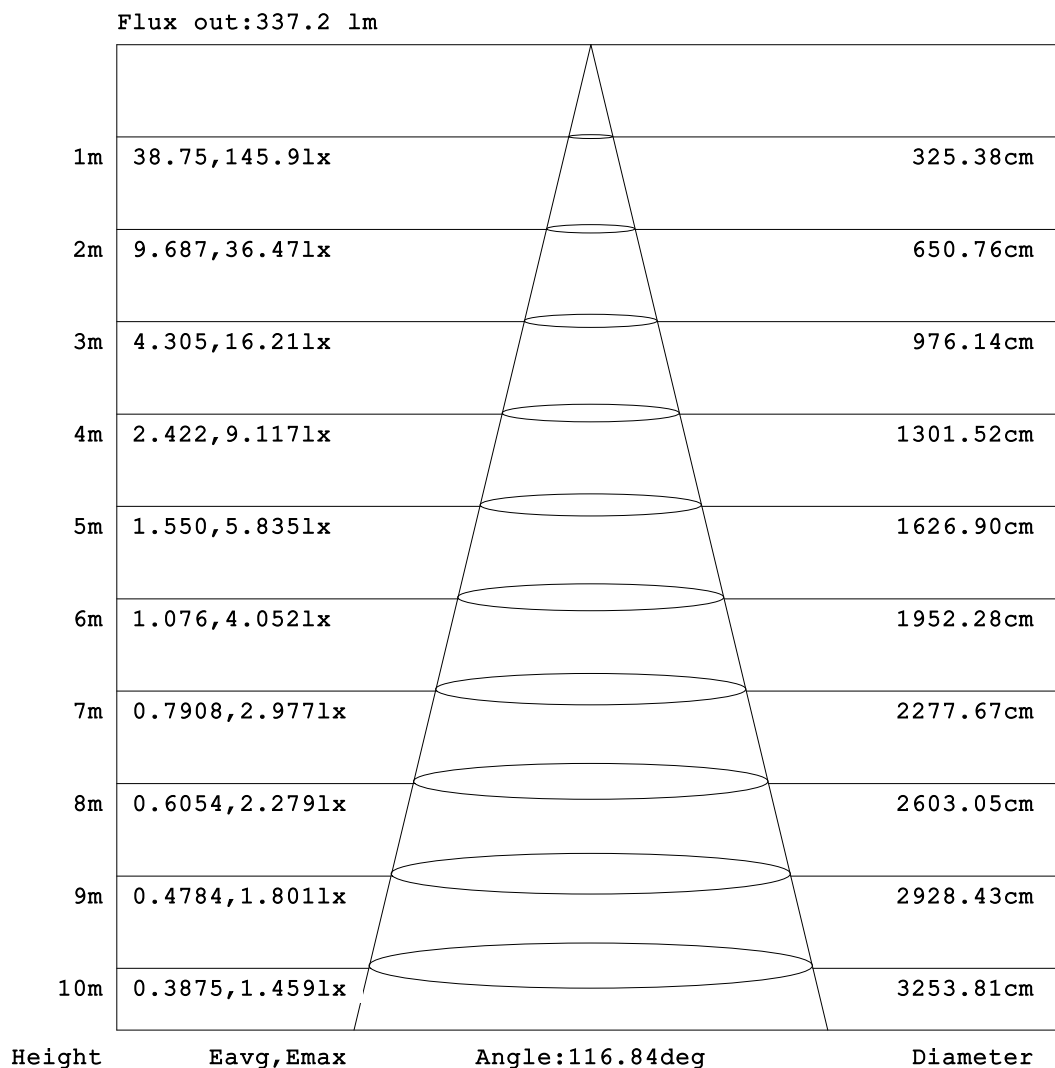


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:



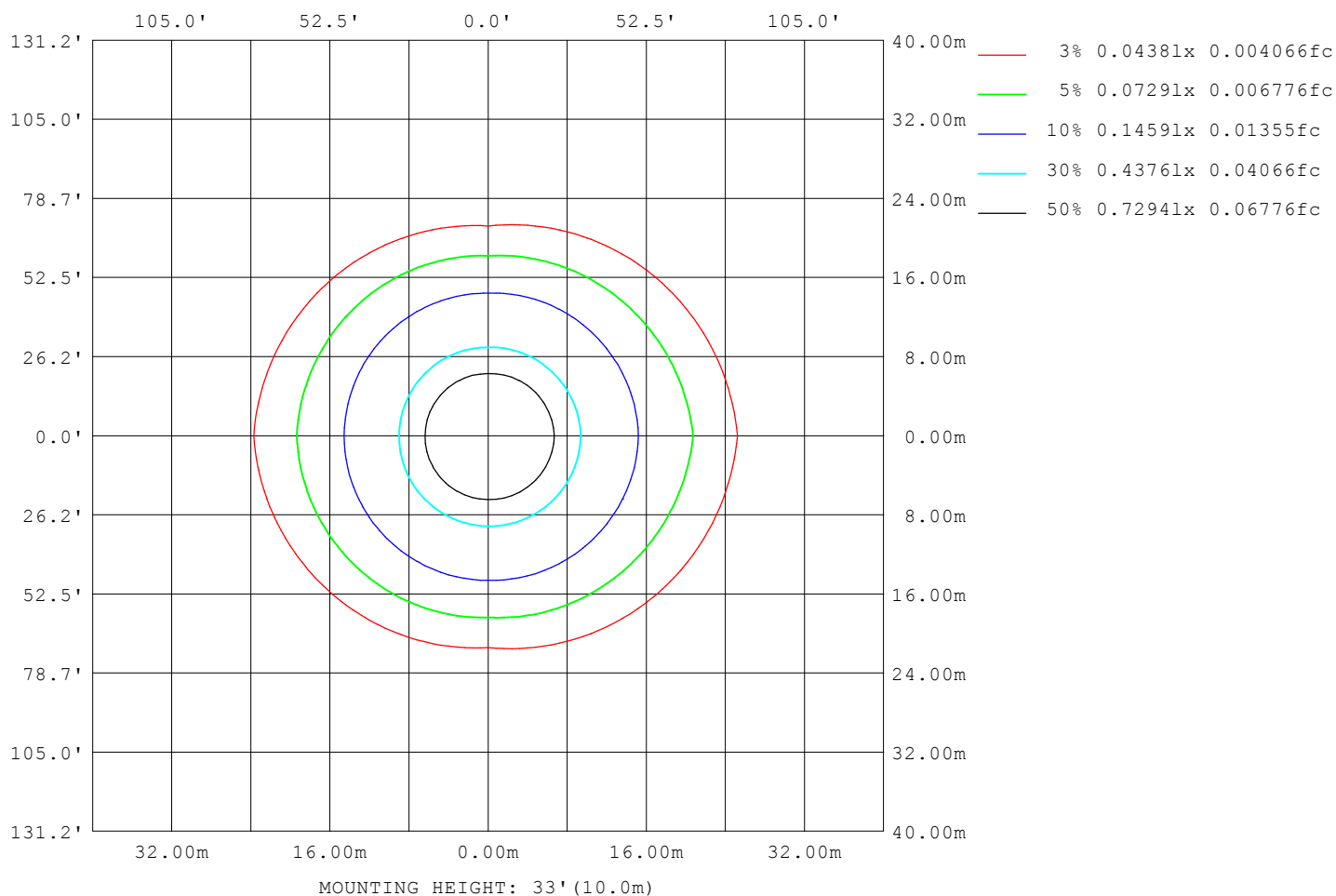
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.44lx1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2024

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:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.441x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:

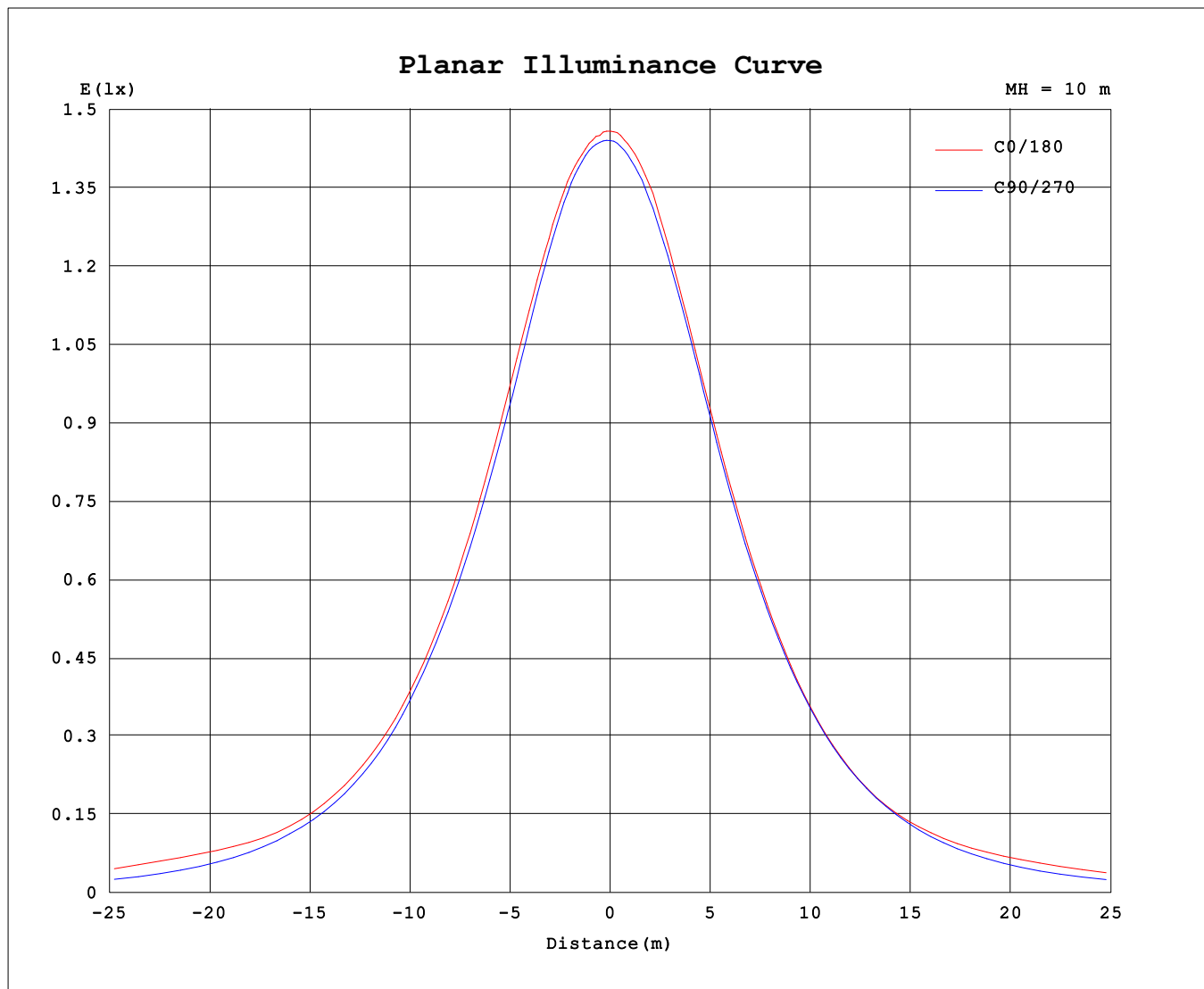
AvgL	cd/m2
L_0~180 (65) av	6493
L_0~180 (75) av	7301
L_0~180 (85) av	9336
L_90~270 (65) av	4499
L_90~270 (75) av	3962
L_90~270 (85) av	2378
L_45 (65) av	5218
L_45 (75) av	5161
L_45 (85) av	4900

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:07 May 2024

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: 07 May 2024

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

Test:U:99.000V I:0.0650A P:5.6200W PF:0.8660 Freq:50.00Hz Lamp Flux:533.441x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COULEUR	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	145	145	145	145														
5	145	145	144	144														
10	145	145	143	142														
15	144	143	140	139														
20	141	139	135	135														
25	137	133	130	130														
30	131	128	124	124														
35	124	121	117	117														
40	117	114	109	109														
45	108	105	99.8	100														
50	99.3	94.2	89.8	90.4														
55	90.2	83.0	80.3	79.7														
60	83.9	70.9	75.1	68.2														
65	89.3	58.2	75.4	55.9														
70	82.0	44.6	68.1	43.3														
75	64.5	31.2	48.9	30.4														
80	45.7	18.1	33.5	16.1														
85	28.9	7.31	19.9	5.13														
90	18.1	1.39	14.0	1.98														
95	14.7	0.99	14.0	1.51														
100	14.4	1.09	14.5	1.59														
105	14.7	1.24	14.7	1.69														
110	15.0	1.30	14.1	1.83														
115	14.8	1.40	13.9	1.94														
120	15.0	1.53	14.7	2.05														
125	16.2	1.66	17.0	2.16														
130	19.5	1.79	22.0	2.29														
135	25.6	1.92	25.3	2.39														
140	33.0	2.07	21.8	2.50														
145	35.0	2.21	11.4	2.67														
150	27.3	2.37	3.68	2.75														
155	17.8	2.53	3.15	2.85														
160	7.29	2.66	3.11	2.91														
165	2.82	2.79	3.10	2.96														
170	2.82	2.90	3.08	3.04														
175	2.87	2.98	3.02	3.06														
180	2.98	3.03	2.97	3.02														

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:07 May 2024

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: