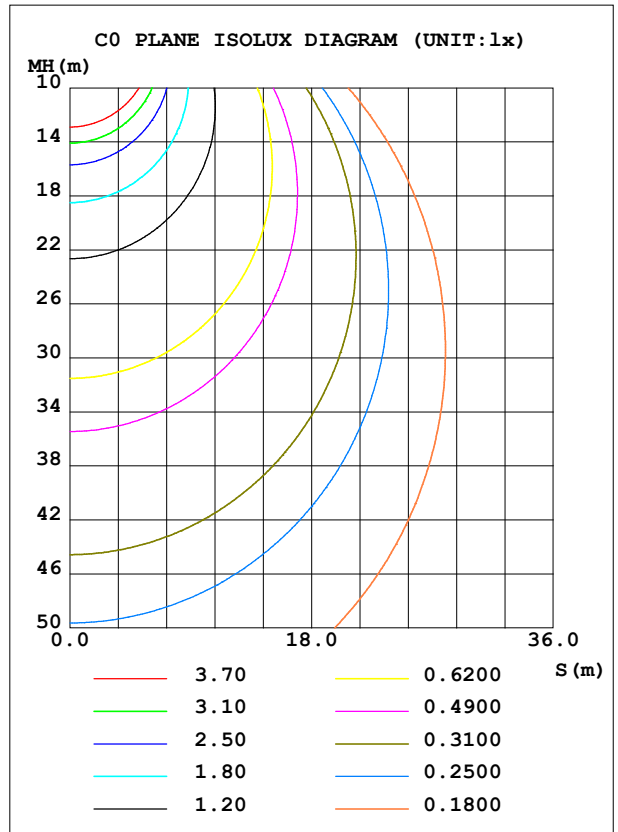
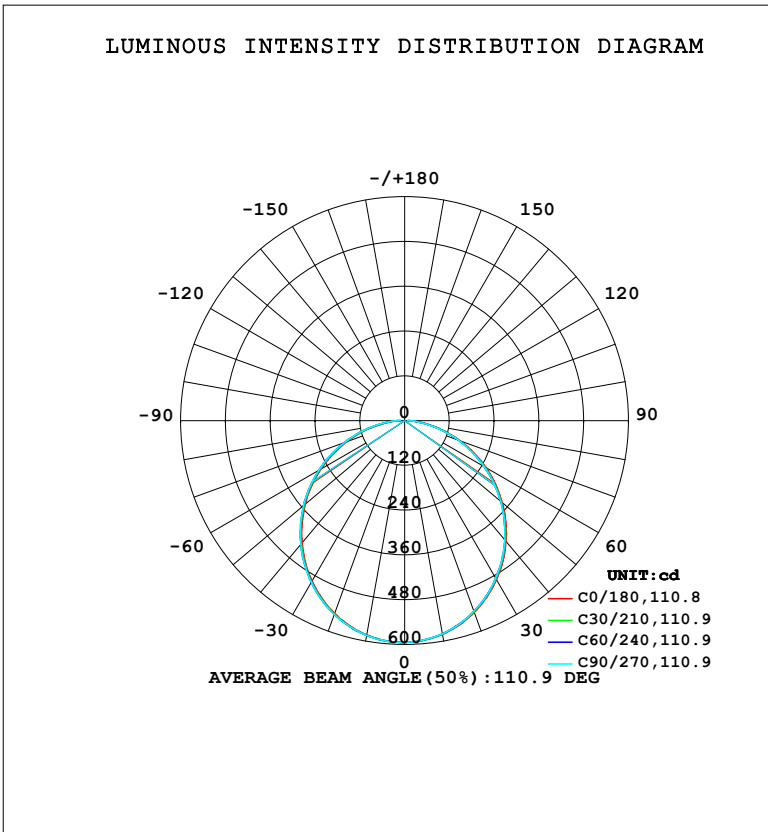


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 92.76 lm/W
MODEL	P8	I _{max} (cd)	594.3	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	18	LOR (%)	100.0	S/MH (C90/270)	1.25	
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1683.6	η UP, DN (C0-180)	0.0, 49.1	
NOMINAL FLUX (lm)	1683.61	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.9	
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	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-11-12

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	581.4	580.6	580.0	581.4	583.1	583.9	584.5	583.1	0- 10	56.15	56.15	3.34,3.34
20	546.4	544.9	543.6	546.4	549.5	551.0	552.3	549.7	10- 20	160.2	216.3	12.8,12.8
30	492.3	490.3	488.3	492.2	496.4	498.5	500.5	497.0	20- 30	241.2	457.5	27.2,27.2
40	422.6	420.0	417.7	422.4	427.7	430.4	432.8	428.6	30- 40	288.7	746.2	44.3,44.3
50	341.7	339.2	335.7	341.9	347.6	350.4	354.0	348.1	40- 50	297.9	1044	62,62
60	252.0	249.0	245.5	252.1	258.6	261.9	265.6	259.0	50- 60	269.0	1313	78,78
70	158.5	154.9	152.7	158.1	164.7	169.5	172.0	166.1	60- 70	206.7	1520	90.3,90.3
80	69.84	66.96	65.16	69.42	74.68	79.82	82.13	76.77	70- 80	123.0	1643	97.6,97.6
90	9.836	8.070	7.756	8.924	11.03	8.906	12.09	11.84	80- 90	40.74	1684	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): 896.46 lm

%lum = 53.2%

%lamp = 53.2%

Conical surface Flux(130deg): 1426 lm

%lum = 84.7%

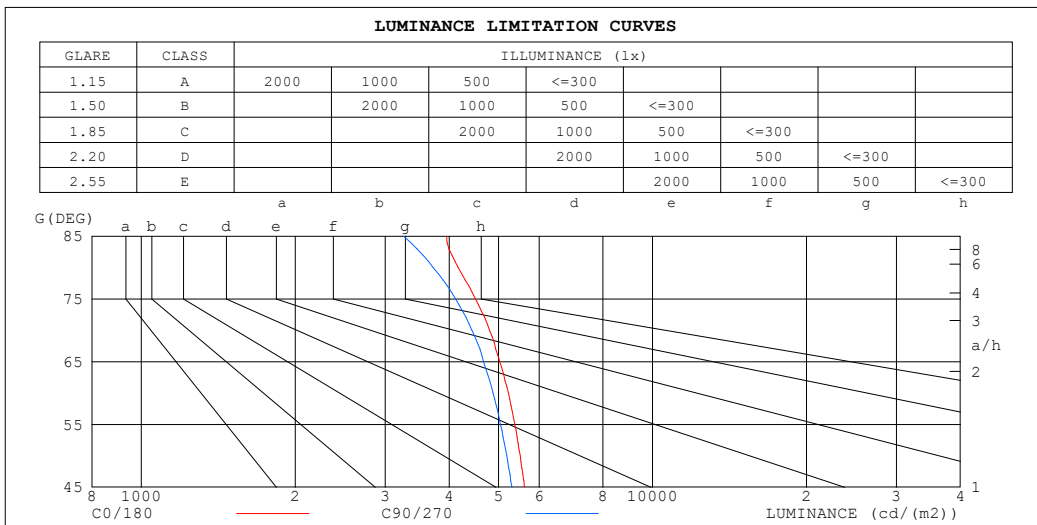
%lamp = 84.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	3955	3261
80	4168	3726
75	4507	4118
70	4802	4434
65	5027	4671
60	5223	4876
55	5375	5044
50	5509	5186
45	5619	5306

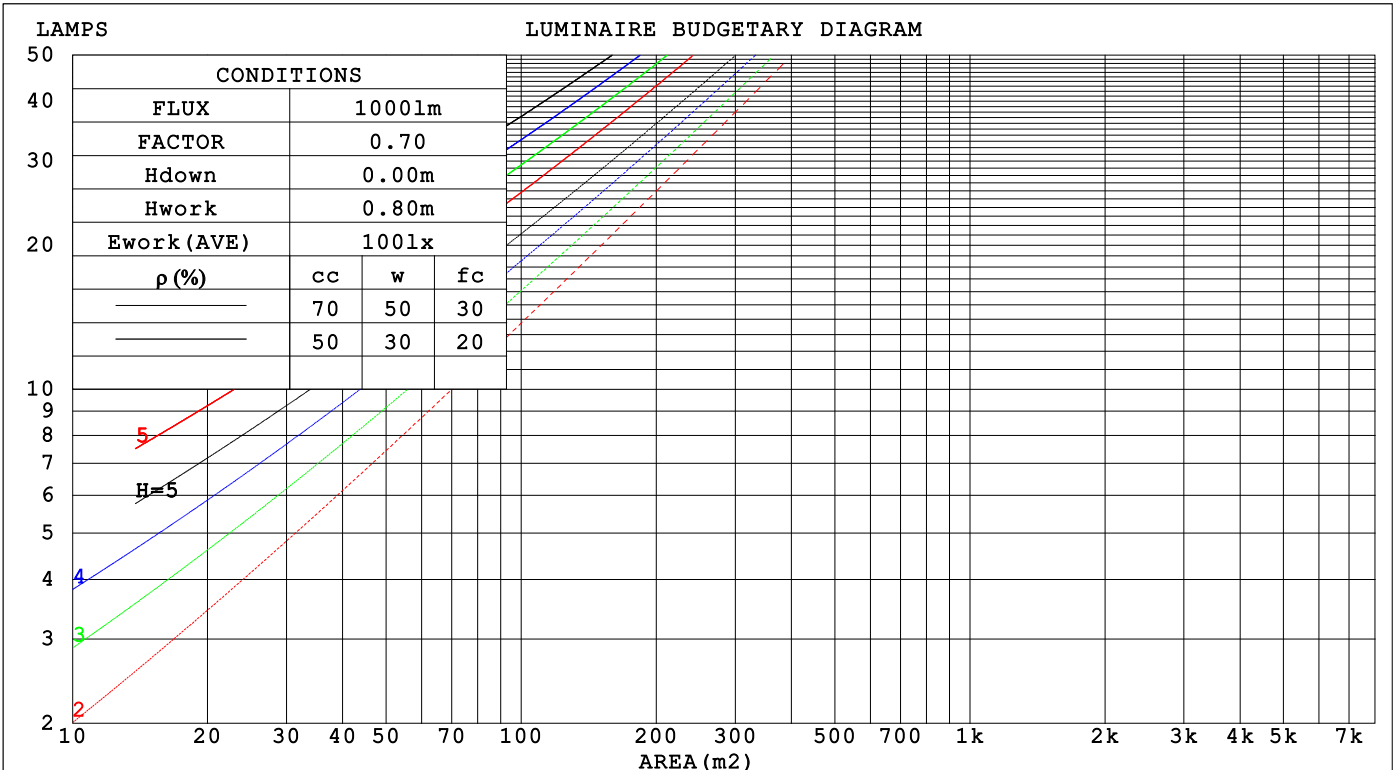
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.62	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz		
Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

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	.316	.180	.057	.309	.176	.056	.296	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.267	.150	.047	.257	.145	.046	
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041	
4.0	.251	.130	.038	.246	.129	.038	.237	.125	.037	.228	.122	.037	.220	.120	.036	
5.0	.231	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.214	.107	.031	.211	.106	.031	.203	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.122	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz										
Lamp Flux:1683.61x1 lm										
NAME:			TYPE:				WEIGHT:			
SPEC.: 白光			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	16.8	18.4	17.1	18.6	18.8	16.6	18.1	16.8	18.3	18.5
3H	18.4	19.8	18.7	20.0	20.3	18.1	19.5	18.4	19.7	20.0
4H	19.0	20.4	19.3	20.6	20.9	18.7	20.0	19.0	20.3	20.5
6H	19.5	20.8	19.8	21.0	21.3	19.1	20.4	19.4	20.6	20.9
8H	19.6	20.9	20.0	21.2	21.5	19.2	20.5	19.6	20.7	21.0
12H	19.8	20.9	20.1	21.2	21.5	19.3	20.5	19.7	20.8	21.1
4H 2H	17.4	18.7	17.7	19.0	19.3	17.2	18.5	17.5	18.8	19.1
3H	19.1	20.3	19.5	20.6	20.9	18.9	20.0	19.2	20.3	20.6
4H	19.9	21.0	20.3	21.3	21.6	19.6	20.7	20.0	21.0	21.3
6H	20.5	21.5	20.9	21.8	22.2	20.1	21.1	20.5	21.5	21.8
8H	20.7	21.6	21.1	22.0	22.4	20.3	21.2	20.8	21.6	22.0
12H	20.9	21.7	21.3	22.1	22.5	20.5	21.3	20.9	21.7	22.1
8H 4H	20.1	21.0	20.5	21.4	21.8	19.9	20.8	20.3	21.1	21.5
6H	20.9	21.6	21.3	22.0	22.5	20.6	21.3	21.0	21.7	22.2
8H	21.2	21.9	21.7	22.3	22.7	20.9	21.5	21.3	21.9	22.4
12H	21.5	22.0	21.9	22.5	23.0	21.1	21.6	21.5	22.1	22.6
12H 4H	20.1	21.0	20.6	21.4	21.8	19.9	20.7	20.3	21.1	21.5
6H	20.9	21.6	21.4	22.0	22.5	20.6	21.3	21.1	21.7	22.2
8H	21.3	21.9	21.8	22.3	22.8	21.0	21.5	21.4	22.0	22.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117, 1684 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.8)
 Area: 0.1 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

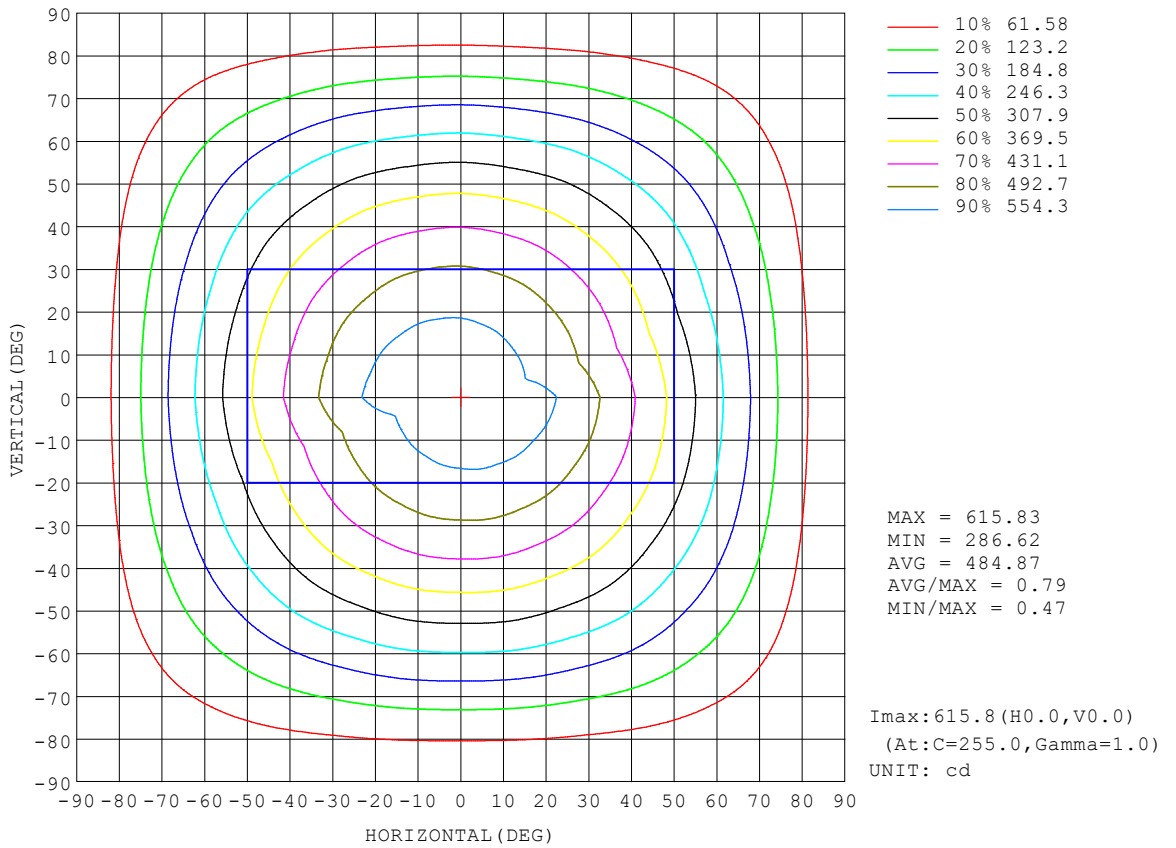
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	79	93	85	79	89	83	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	85
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:2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

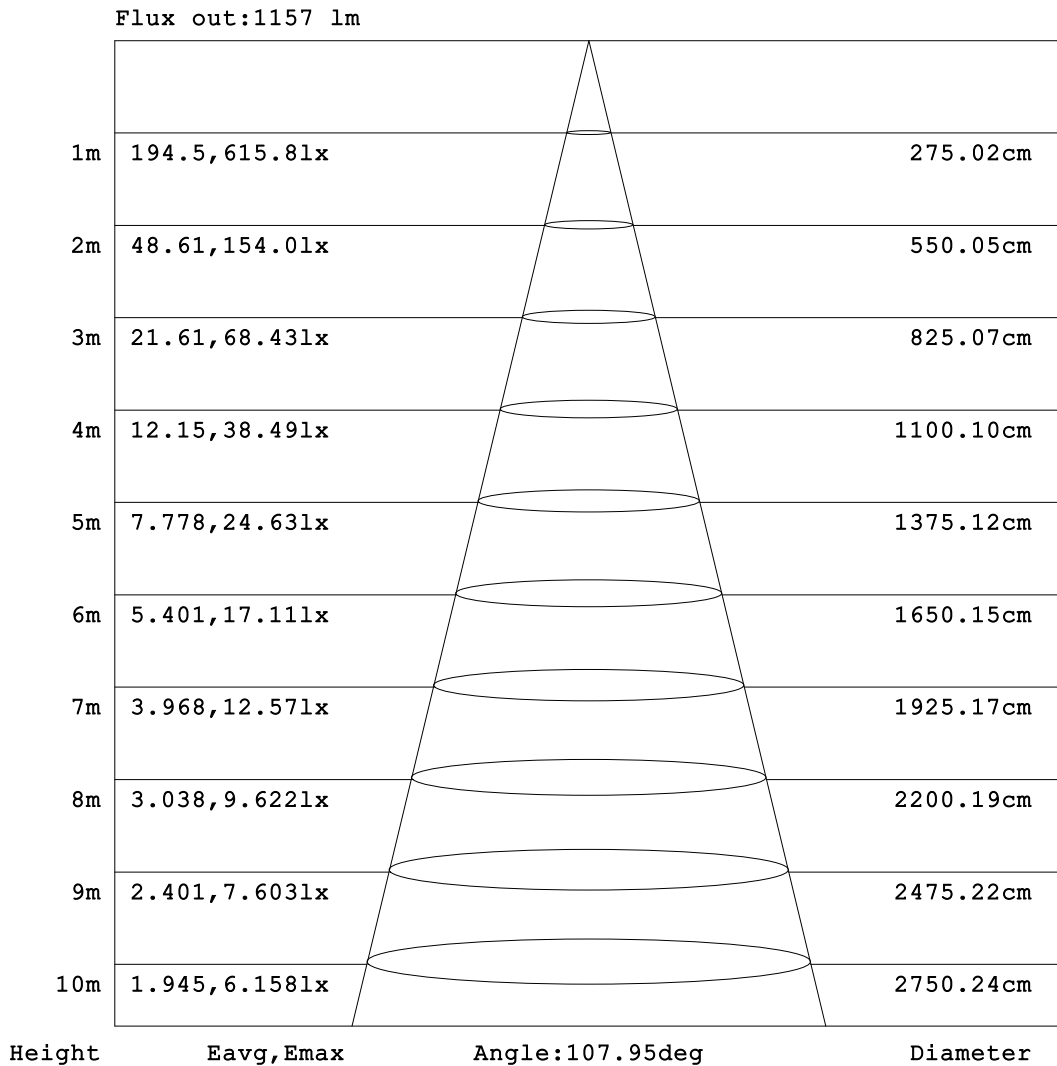


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



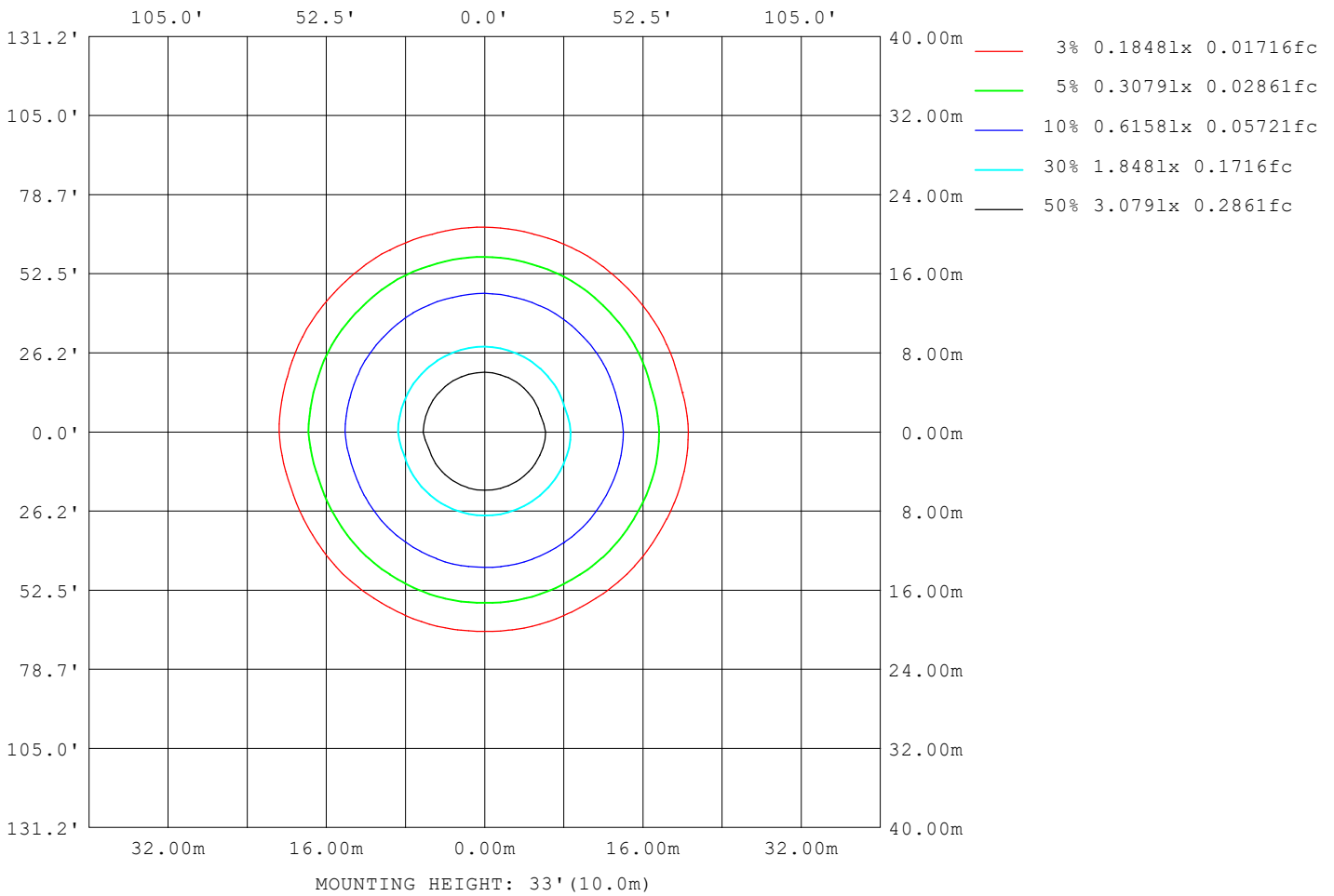
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	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:2024-11-12

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:230.39V I:0.1320A P:18.151W PF:0.5970 Freq:50.00Hz Lamp Flux:1683.61x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 白光	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

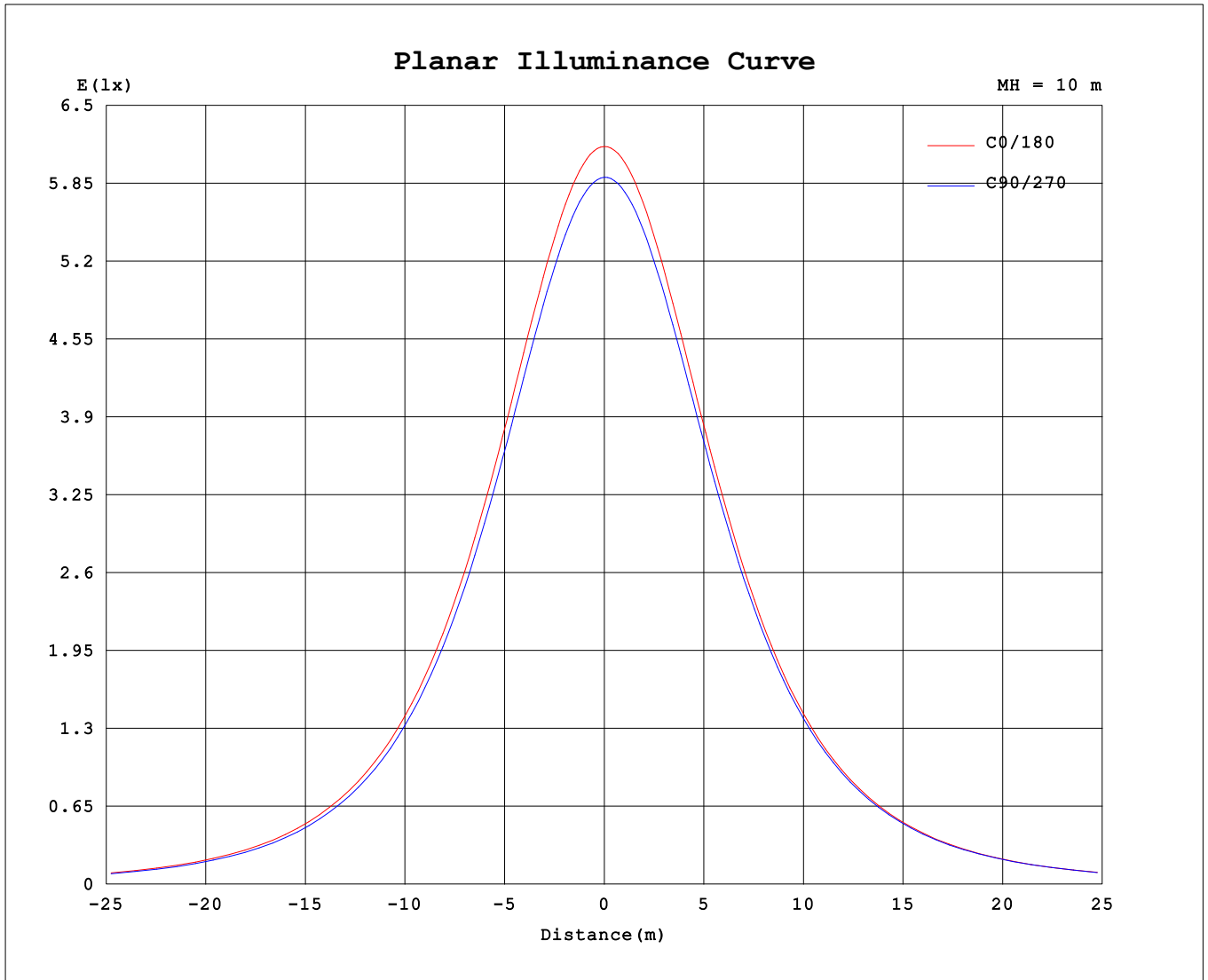
AvgL	cd/m2
L_0~180 (65) av	4932
L_0~180 (75) av	4462
L_0~180 (85) av	3989
L_90~270 (65) av	4943
L_90~270 (75) av	4504
L_90~270 (85) av	4107
L_45 (65) av	4939
L_45 (75) av	4490
L_45 (85) av	4075

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-11-12

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: 2024-11-12

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:

