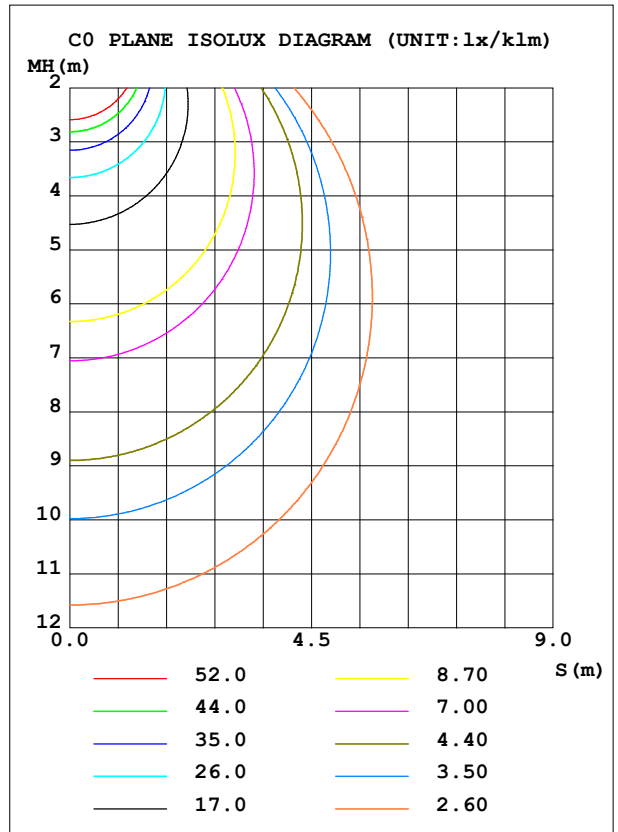
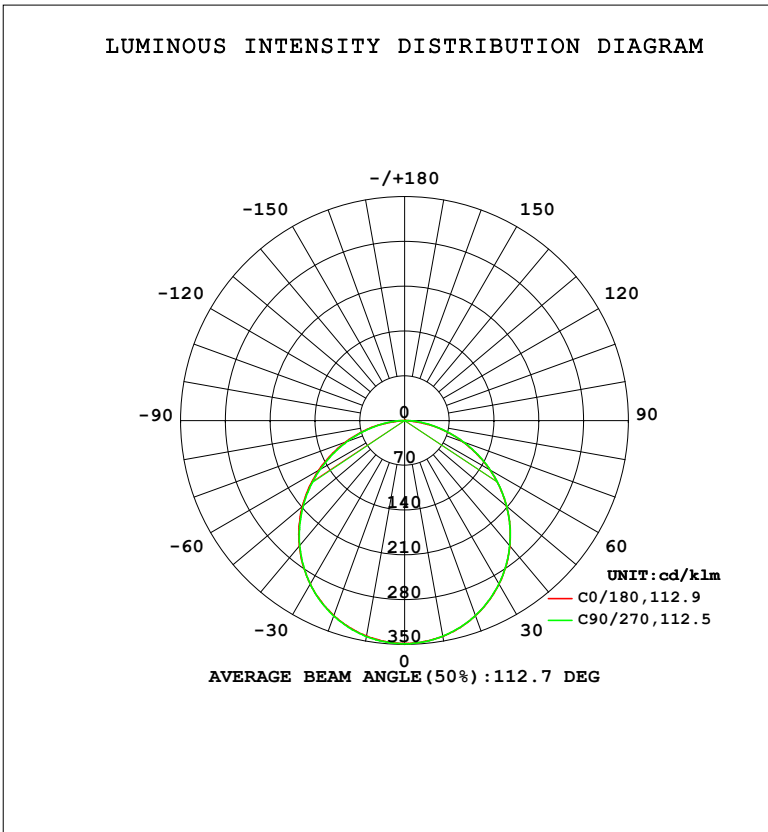


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DLDP-C-4-FR	Imax (cd/klm)	348.8	S/MH (C0/180)	1.26
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120.0	TOTAL FLUX (lm/klm)	1000.00	$\eta$ UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	803.308	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 49.8
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators:  
 Test Date: 2024-10-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity: 65.0%  
 Test Distance: 10.000m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

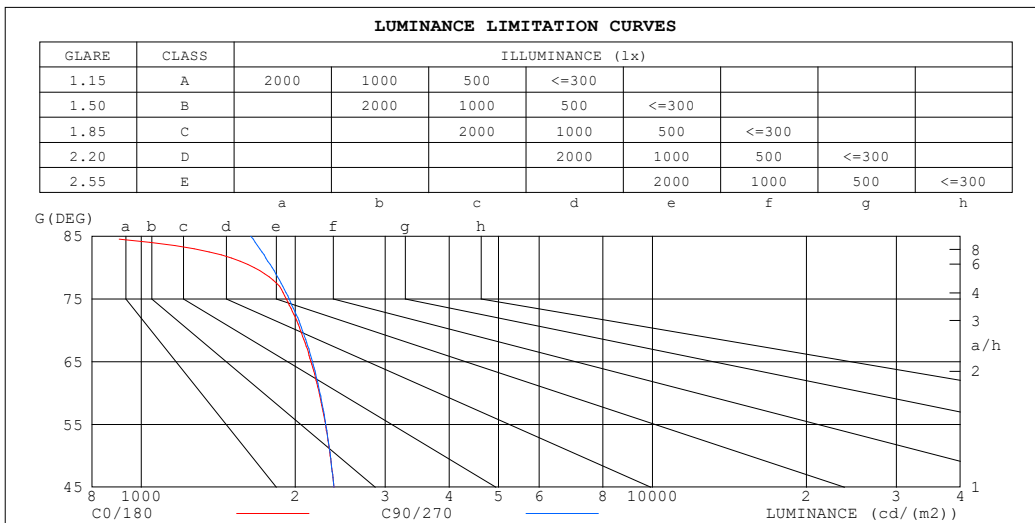
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	342.5	342.6	342.3	342.4	342.1	342.5	342.8	343.0	0- 10	32.99	32.99	3.3,3.3
20	324.5	324.7	324.1	323.8	324.1	324.4	324.7	325.0	10- 20	94.53	127.5	12.8,12.8
30	295.2	295.5	294.7	294.4	295.0	295.2	295.0	295.6	20- 30	143.4	270.9	27.1,27.1
40	256.0	256.3	255.7	255.5	256.2	255.6	255.2	255.9	30- 40	173.0	443.9	44.4,44.4
50	208.2	208.7	208.3	208.1	208.8	207.6	206.8	207.9	40- 50	179.6	623.5	62.4,62.4
60	154.1	154.8	154.7	154.7	155.0	153.3	152.3	153.5	50- 60	162.4	785.9	78.6,78.6
70	96.83	97.59	97.72	97.82	97.85	95.84	94.84	96.20	60- 70	124.2	910.1	91,91
80	39.93	42.42	43.31	42.45	40.28	40.71	40.57	41.24	70- 80	72.72	982.9	98.3,98.3
90	0.7347	0.7347	0.8384	0.7260	0.5186	0.5186	0.5359	0.5359	80- 90	17.14	1000.0	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/klm									UNIT:lm/klm		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:  
 Test Date:2024-10-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	742	1638
80	1662	1803
75	1921	1945
70	2047	2066
65	2148	2162
60	2229	2236
55	2292	2295
50	2342	2343
45	2382	2381

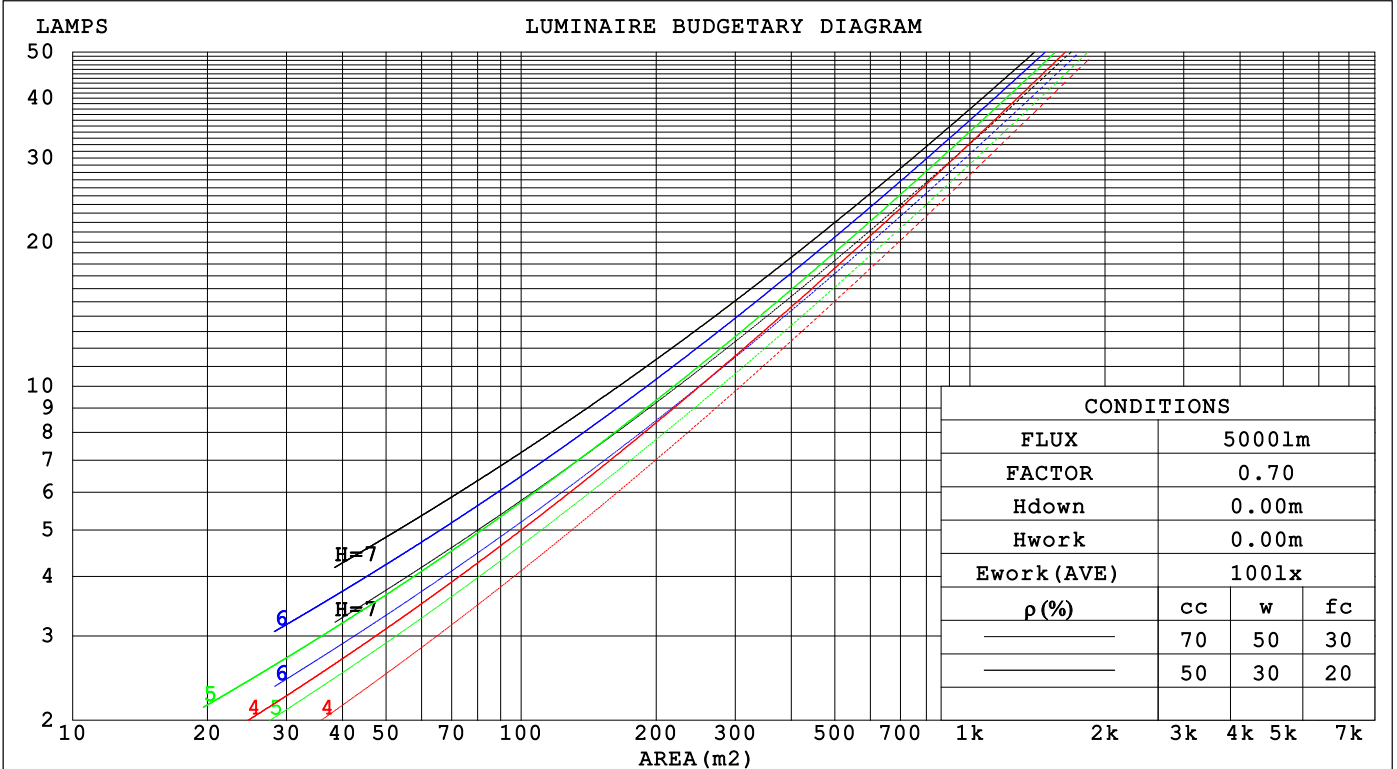
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3 °C  
 Operators:  
 Test Date:2024-10-07

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.84	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.46	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.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	.45	.37	.32	.43	.37	.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: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:2024-10-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.310	.176	.056	.303	.173	.055	.289	.166	.053	.277	.160	.051	.266	.154	.050	
2.0	.292	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.254	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.098	.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 <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.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	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.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: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:  
 Test Date:2024-10-07

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz										
Lamp Flux:803.308x1 lm										
NAME: DLDP-C-4-FR				TYPE:				WEIGHT:		
SPEC.: 3000K				DIM.:				SERIAL No.:		
MFR.:				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	16.6	18.1	16.8	18.3	18.5	16.6	18.1	16.8	18.3	18.5
3H	18.1	19.5	18.4	19.7	20.0	18.1	19.5	18.4	19.8	20.0
4H	18.7	20.1	19.0	20.3	20.6	18.7	20.1	19.1	20.3	20.6
6H	19.2	20.4	19.5	20.7	21.0	19.2	20.5	19.6	20.8	21.0
8H	19.3	20.5	19.6	20.8	21.1	19.4	20.6	19.7	20.9	21.2
12H	19.3	20.5	19.6	20.7	21.1	19.5	20.7	19.8	21.0	21.3
4H 2H	17.2	18.5	17.5	18.8	19.0	17.2	18.5	17.5	18.8	19.0
3H	18.9	20.1	19.3	20.4	20.7	18.9	20.1	19.3	20.4	20.7
4H	19.7	20.7	20.0	21.1	21.4	19.7	20.8	20.1	21.1	21.4
6H	20.2	21.2	20.6	21.5	21.9	20.3	21.2	20.7	21.6	22.0
8H	20.4	21.3	20.8	21.6	22.0	20.5	21.4	20.9	21.8	22.2
12H	20.4	21.2	20.8	21.6	22.0	20.7	21.5	21.1	21.9	22.3
8H 4H	19.9	20.8	20.4	21.2	21.6	20.0	20.9	20.4	21.2	21.6
6H	20.7	21.4	21.1	21.8	22.2	20.7	21.5	21.2	21.9	22.3
8H	20.9	21.5	21.3	22.0	22.4	21.0	21.7	21.5	22.1	22.6
12H	21.0	21.5	21.4	22.0	22.5	21.3	21.8	21.8	22.3	22.8
12H 4H	20.0	20.8	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.6
6H	20.7	21.4	21.2	21.8	22.3	20.8	21.4	21.2	21.9	22.3
8H	21.0	21.5	21.5	22.0	22.5	21.1	21.7	21.6	22.1	22.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 803.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)  
 Area: 0.111111 m2

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Temperature:25.3℃	Humidity:65.0%
Operators:	Test Distance:10.000m [K=1.0000]
Test Date:2024-10-07	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

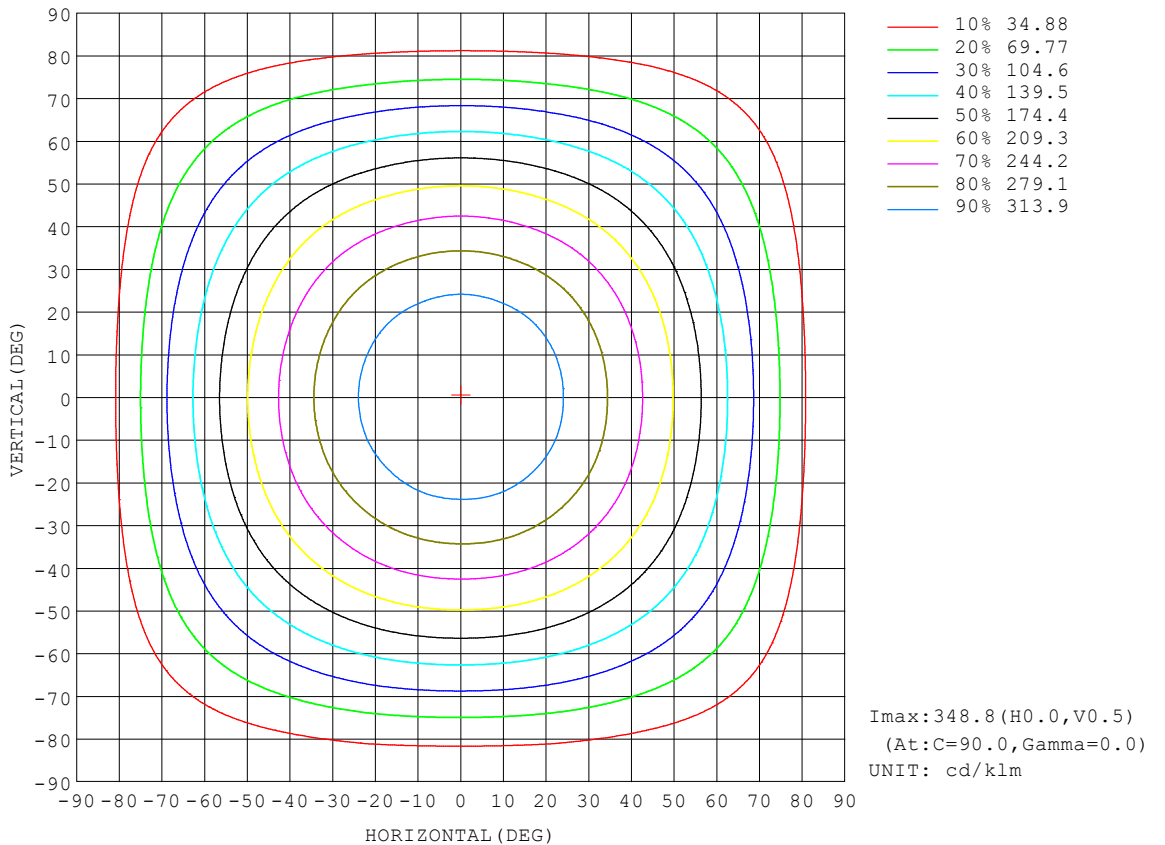
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	55	45	38	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	69	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:2024-10-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

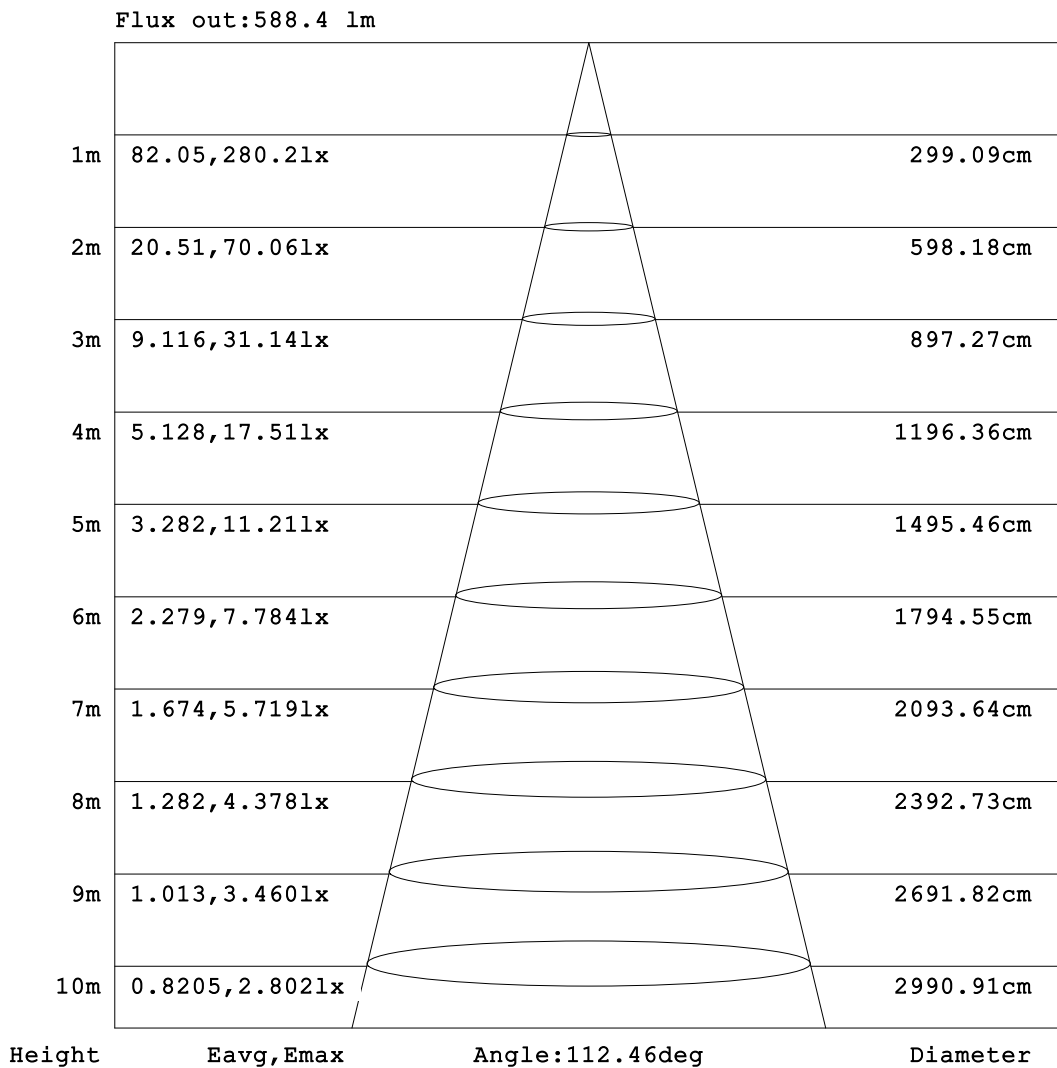


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators:  
Test Date: 2024-10-07

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



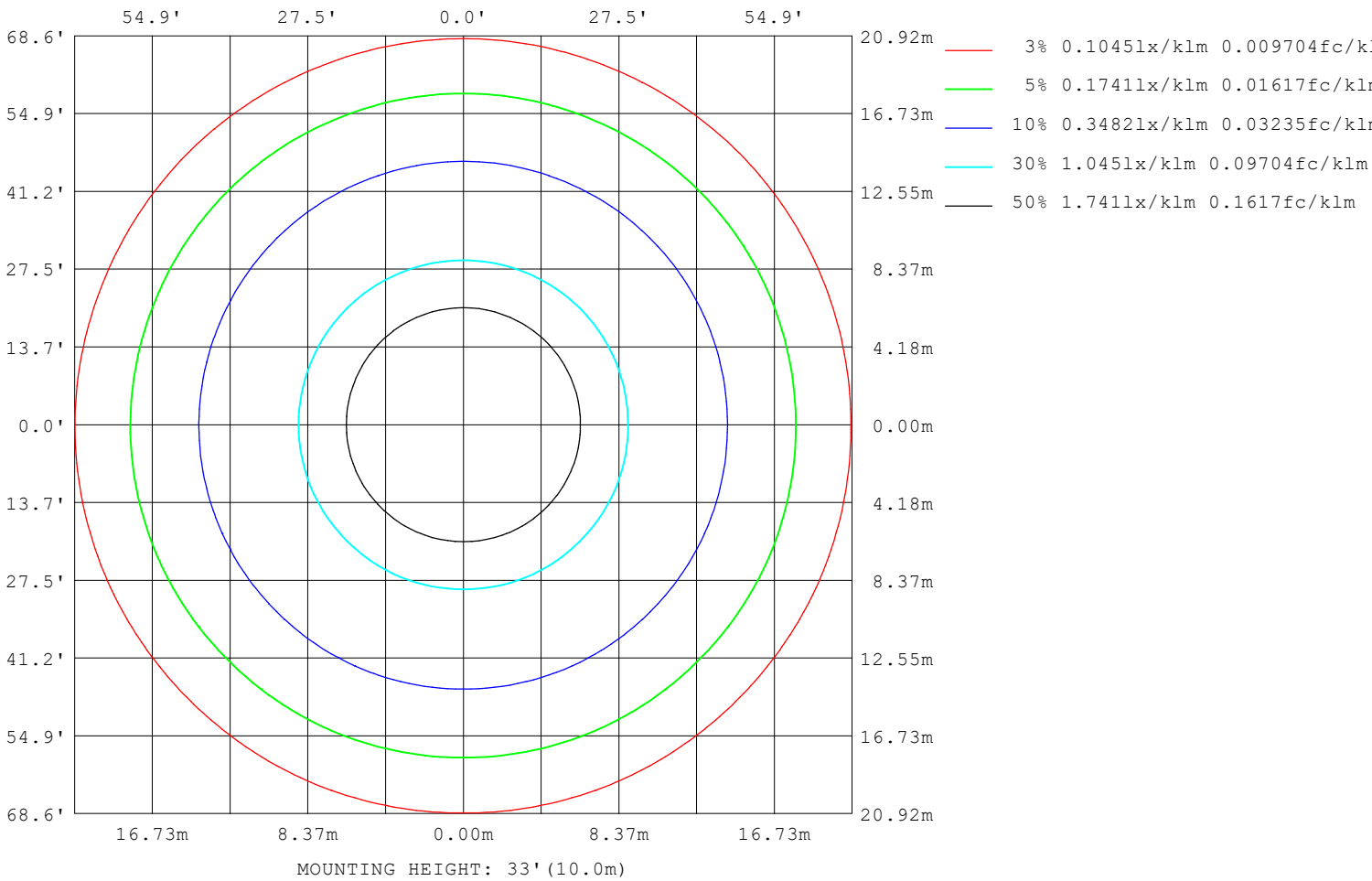
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 2024-10-07

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity: 65.0%  
 Test Distance: 10.000m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:2024-10-07

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:120.47V I:0.0965A P:11.407W PF:0.9814 Freq:59.98Hz Lamp Flux:803.308x1 lm		
NAME: DLDP-C-4-FR	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

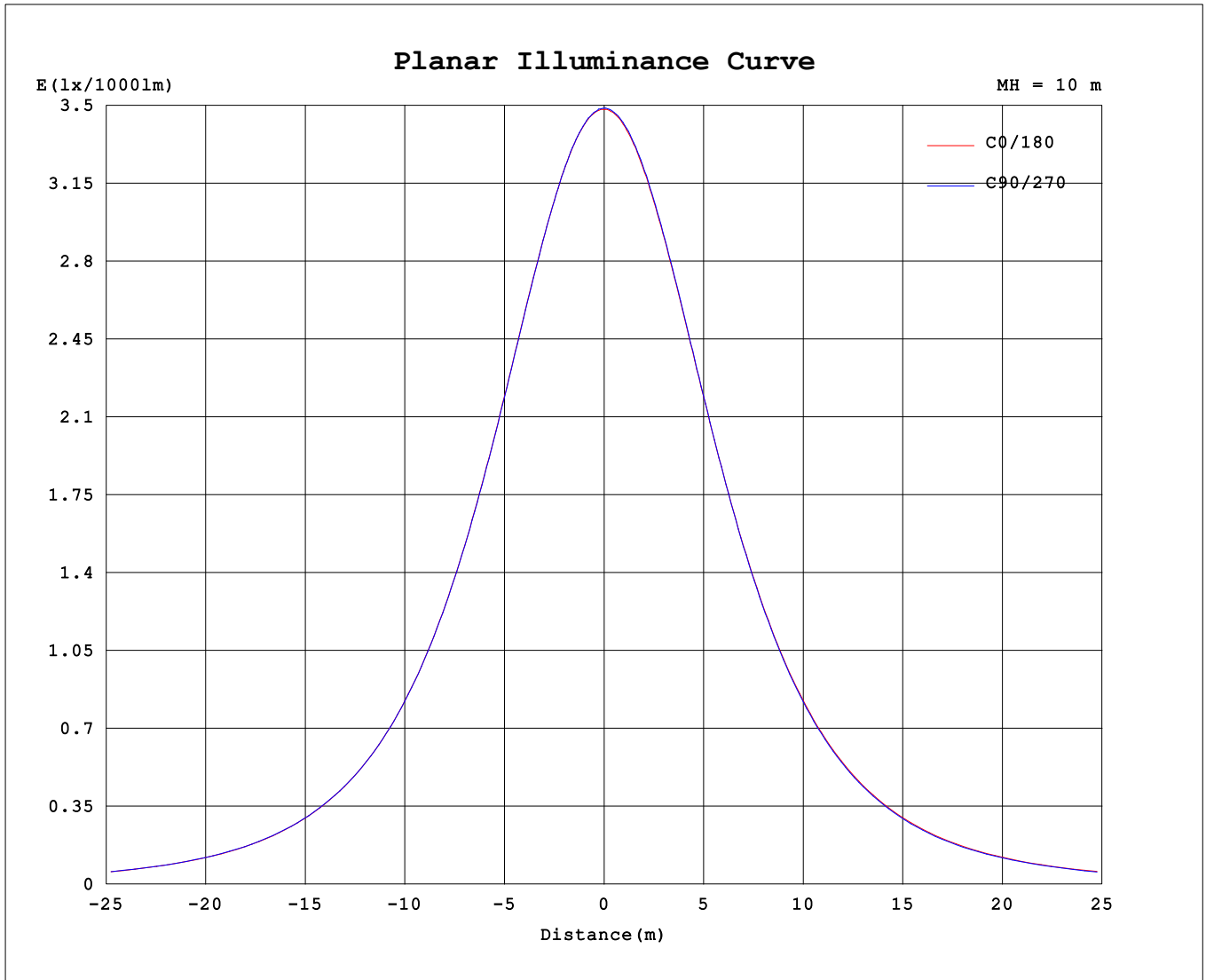
AvgL	cd/m2
L_0~180 (65) av	2157
L_0~180 (75) av	1936
L_0~180 (85) av	742
L_90~270 (65) av	2139
L_90~270 (75) av	1906
L_90~270 (85) av	1540
L_45 (65) av	2149
L_45 (75) av	1922
L_45 (85) av	1053

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:  
 Test Date:2024-10-07

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators:  
 Test Date: 2024-10-07

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
 Humidity: 65.0%  
 Test Distance: 10.000m [K=1.0000]  
 Remarks:

