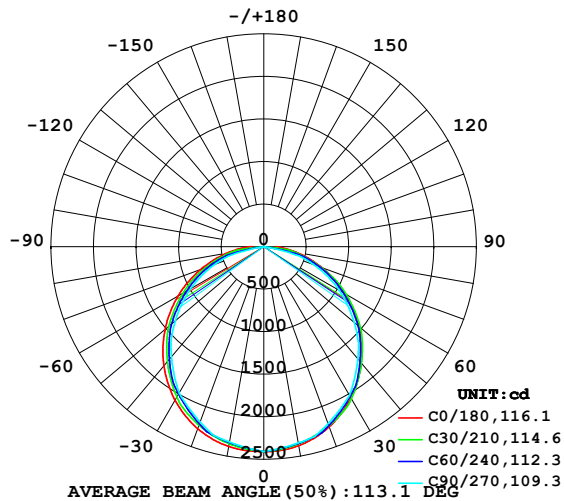


LUMINAIRE PHOTOMETRIC TEST REPORT

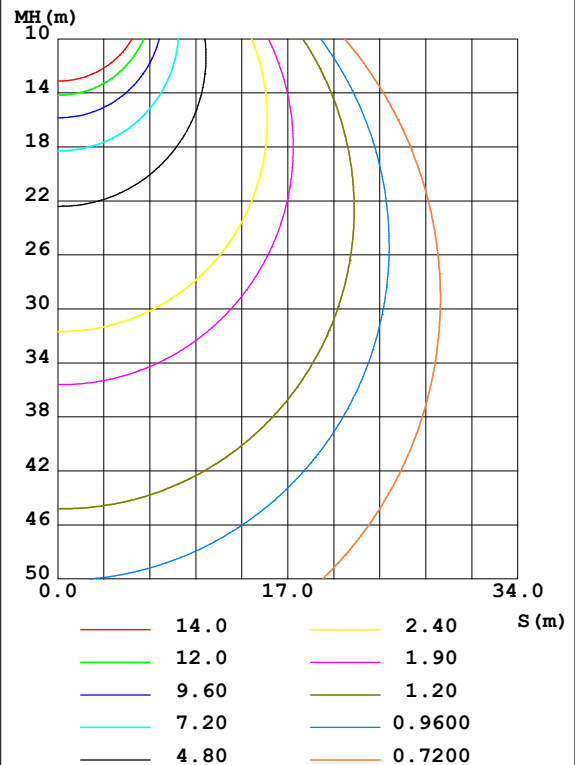
Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.65 lm/W			
MODEL		I _{max} (cd)	2409	S/MH(C0/180)	1.29
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	6907.4	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	6907.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [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	2375	2350	2343	2351	2384	2343	2332	2342	0- 10	226.5	226.5	3.28, 3.28
20	2253	2255	2212	2253	2275	2237	2192	2240	10- 20	650.3	876.8	12.7, 12.7
30	2051	2040	2017	2035	2086	2014	1989	2020	20- 30	985.5	1862	27, 27
40	1782	1791	1721	1785	1827	1760	1689	1768	30- 40	1190	3053	44.2, 44.2
50	1460	1459	1390	1457	1515	1431	1358	1435	40- 50	1239	4291	62.1, 62.1
60	1103	1101	1023	1102	1165	1078	995.5	1078	50- 60	1130	5421	78.5, 78.5
70	732.4	728.2	630.3	722.5	793.0	711.9	615.7	710.7	60- 70	882.2	6303	91.3, 91.3
80	387.7	310.3	0	294.8	436.5	306.6	0	304.3	70- 80	517.5	6821	98.7, 98.7
90	140.3	0	0	0	131.2	0	0	0	80- 90	86.63	6907	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): 3675.7 lm

%lum = 53.2%

%lamp = 53.2%

Conical surface Flux(120deg): 5421 lm

%lum = 78.5%

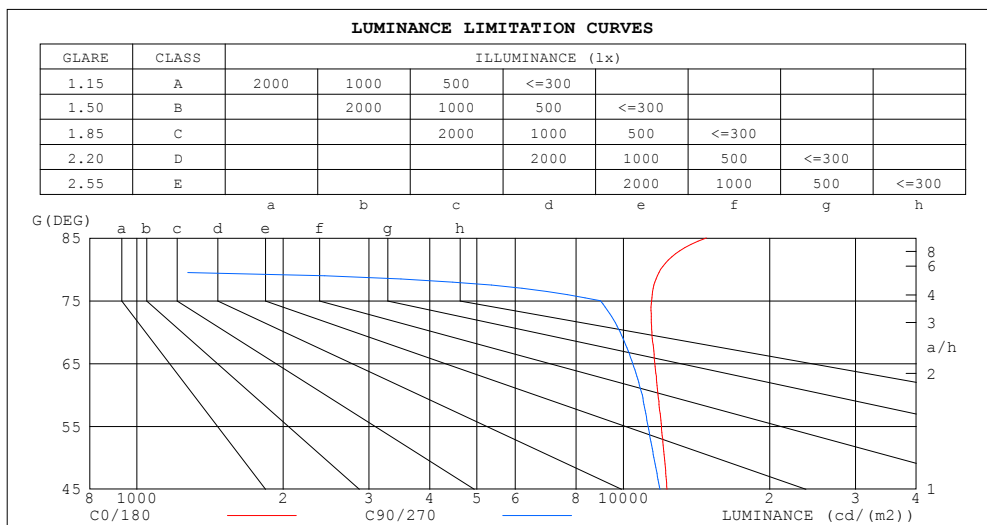
%lamp = 78.5%

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:13 February 2025

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14807	0
80	11939	0
75	11429	8968
70	11451	9855
65	11606	10458
60	11792	10938
55	11977	11245
50	12147	11561
45	12301	11897

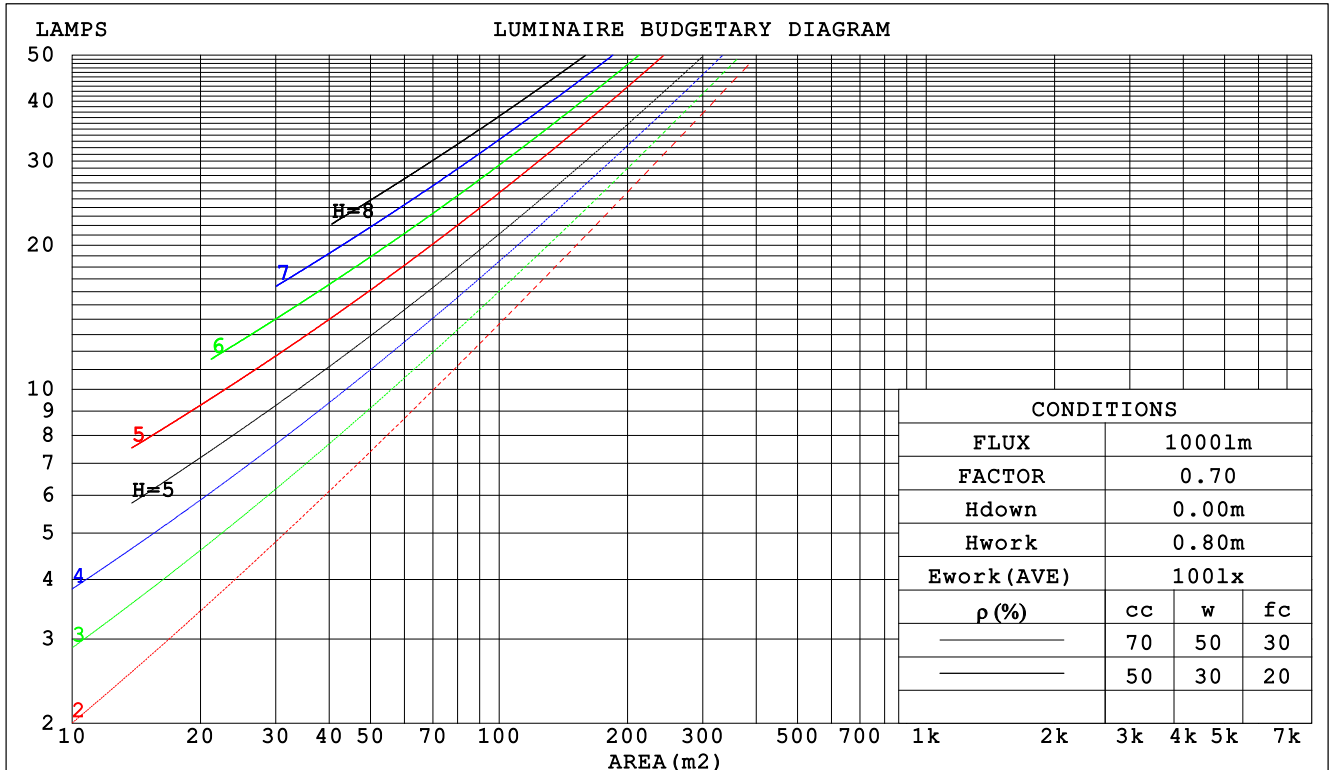
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	.00	.96	1.02	.98	.94	.97	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.53	.47	.61	.53	.47	.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	.46	.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



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.307	.175	.055	.300	.171	.054	.287	.164	.053	.275	.158	.051	.263	.153	.049		
2.0	.292	.160	.049	.285	.157	.048	.274	.152	.047	.263	.148	.046	.253	.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	.219	.114	.034	.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	.099	.028	.196	.098	.028	.190	.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	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.180	.156	.135	.154	.134	.116	.105	.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	.129	.078	.041	.089	.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		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm										
NAME: GLM-PLS128C1500(4000K)					TYPE:LED			WEIGHT:		
SPEC.:Power:56.3W Current:350mA Voltage:147.5V					DIM.:			SERIAL No.:1		
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	21.7	23.2	22.0	23.4	23.6	21.4	22.9	21.6	23.1	23.3
3H	23.4	24.8	23.7	25.0	25.2	22.9	24.3	23.2	24.5	24.7
4H	24.1	25.4	24.4	25.7	25.9	23.4	24.8	23.7	25.0	25.3
6H	24.7	25.9	25.0	26.2	26.5	23.5	24.7	23.8	25.0	25.3
8H	24.9	26.1	25.3	26.4	26.7	23.4	24.6	23.8	24.9	25.2
12H	25.2	26.4	25.5	26.7	27.0	23.4	24.5	23.7	24.8	25.1
4H 2H	22.3	23.7	22.7	23.9	24.2	22.1	23.4	22.4	23.7	23.9
3H	24.2	25.3	24.5	25.6	25.9	23.8	25.0	24.1	25.3	25.6
4H	25.0	26.1	25.4	26.4	26.7	24.5	25.6	24.9	25.9	26.2
6H	25.8	26.7	26.2	27.1	27.4	24.6	25.5	25.0	25.9	26.3
8H	26.1	27.0	26.5	27.4	27.7	24.5	25.4	25.0	25.8	26.2
12H	26.5	27.3	26.9	27.7	28.1	24.5	25.3	24.9	25.7	26.1
8H 4H	25.3	26.2	25.7	26.6	27.0	24.9	25.8	25.3	26.1	26.5
6H	26.3	27.0	26.7	27.4	27.8	25.0	25.8	25.5	26.2	26.6
8H	26.7	27.4	27.2	27.8	28.3	25.0	25.6	25.5	26.1	26.5
12H	27.3	27.8	27.7	28.3	28.7	25.0	25.5	25.4	26.0	26.4
12H 4H	25.3	26.1	25.7	26.5	26.9	24.9	25.7	25.3	26.1	26.5
6H	26.3	26.9	26.7	27.3	27.8	25.1	25.7	25.6	26.2	26.6
8H	26.8	27.3	27.2	27.8	28.2	25.1	25.6	25.5	26.1	26.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.5				

CIE Pub.117, 6907 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.7$)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

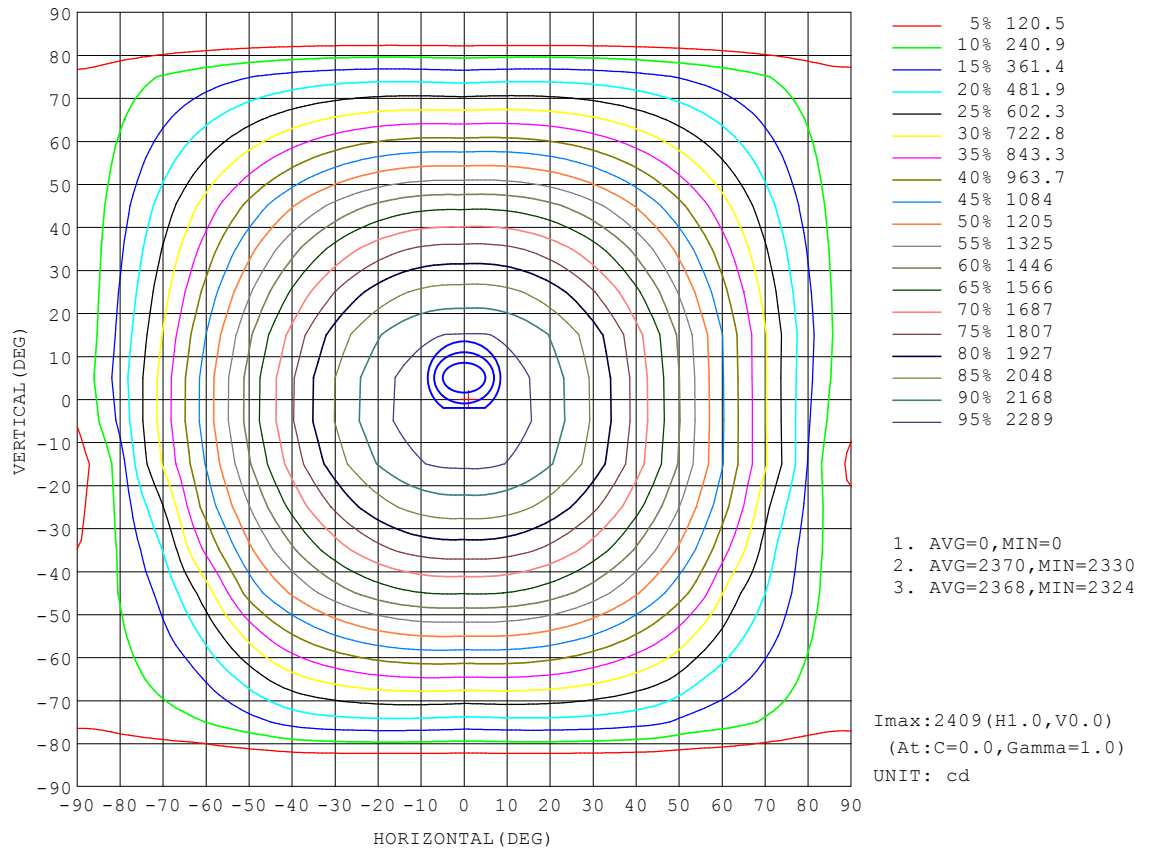
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	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	95	100	96	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										

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:13 February 2025

$V(B)$ Range:-75 - 75DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

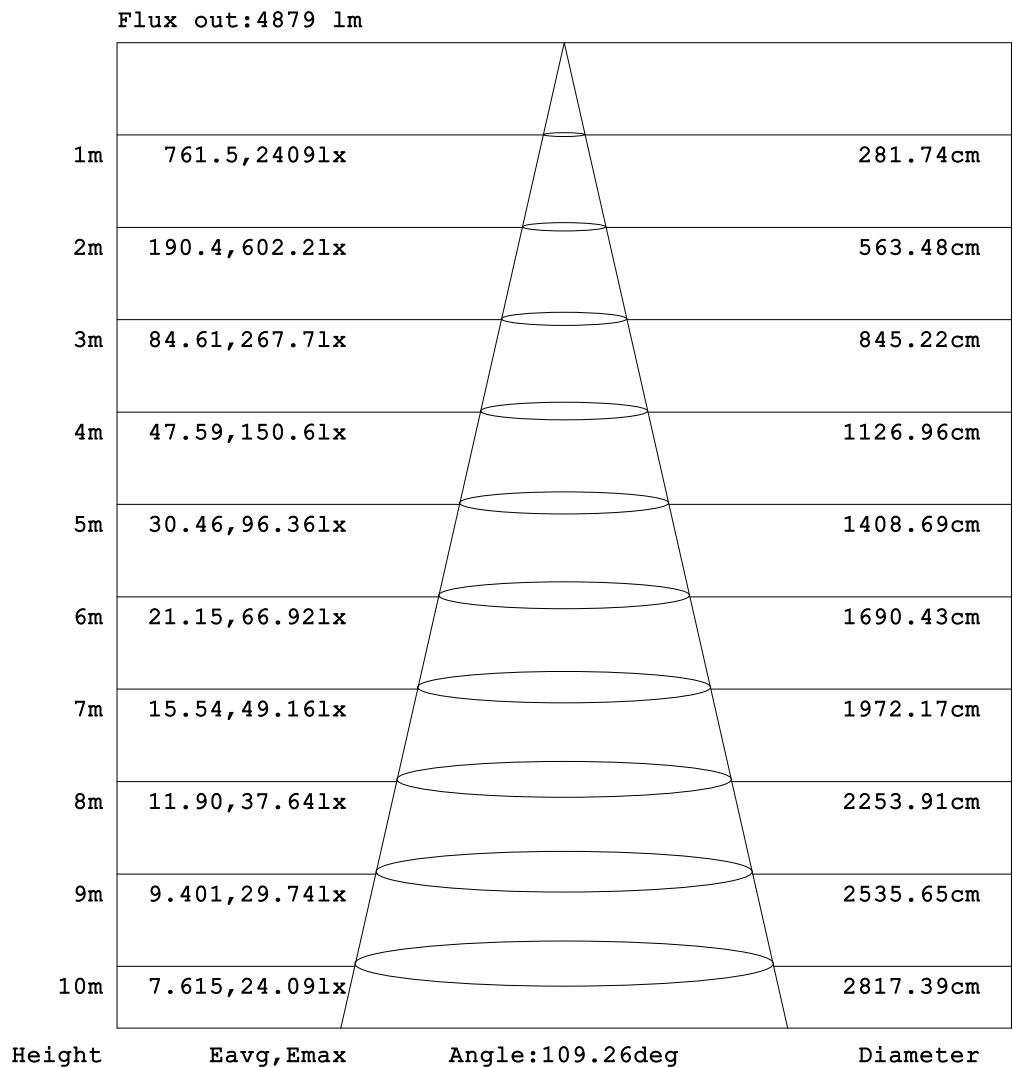


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



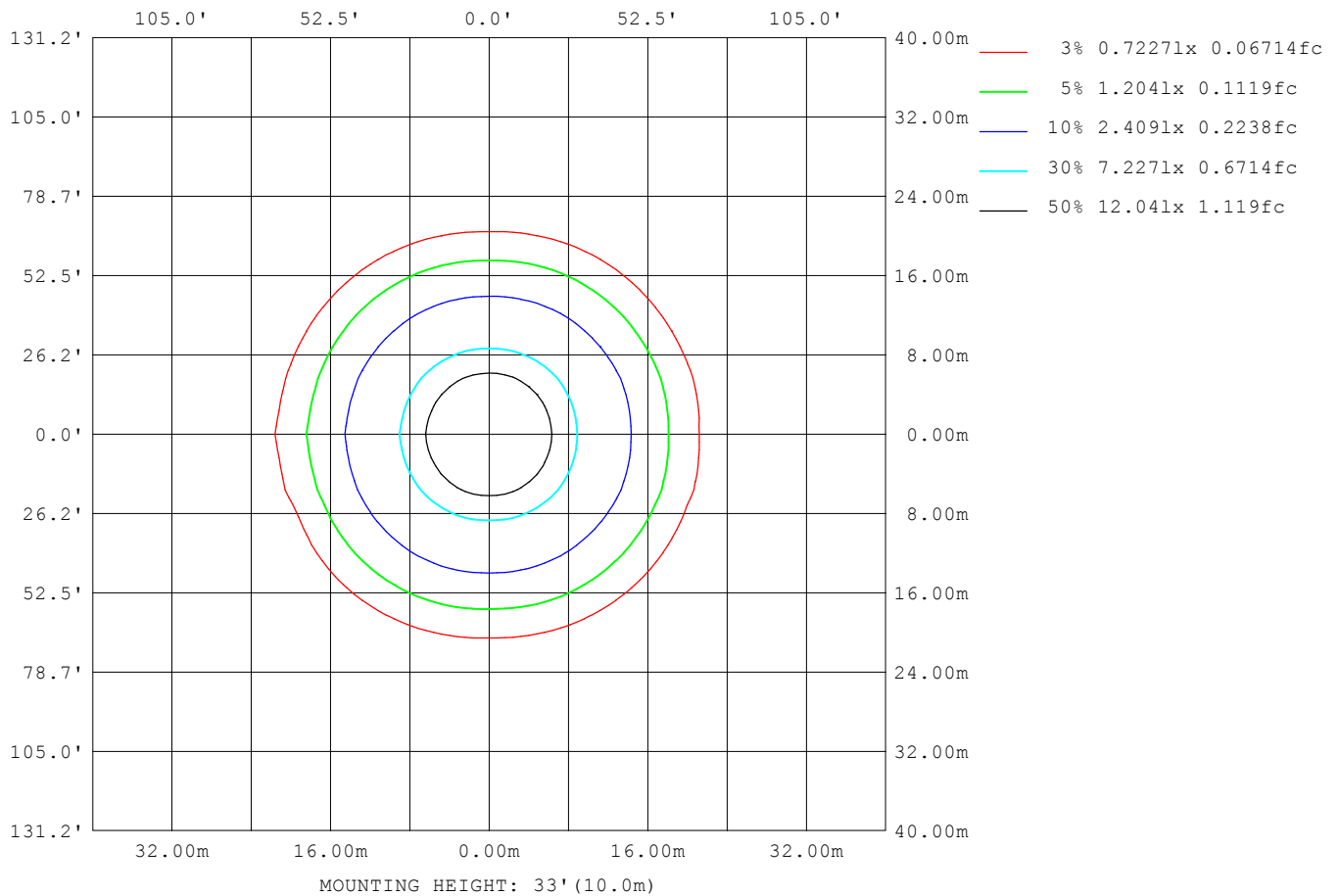
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.27V I:0.2288A P:56.316W PF:0.9705 Freq:49.99Hz Lamp Flux:6907.4x1 lm		
NAME: GLM-PLS128C1500 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:56.3W Current:350mA Voltage:147.5V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

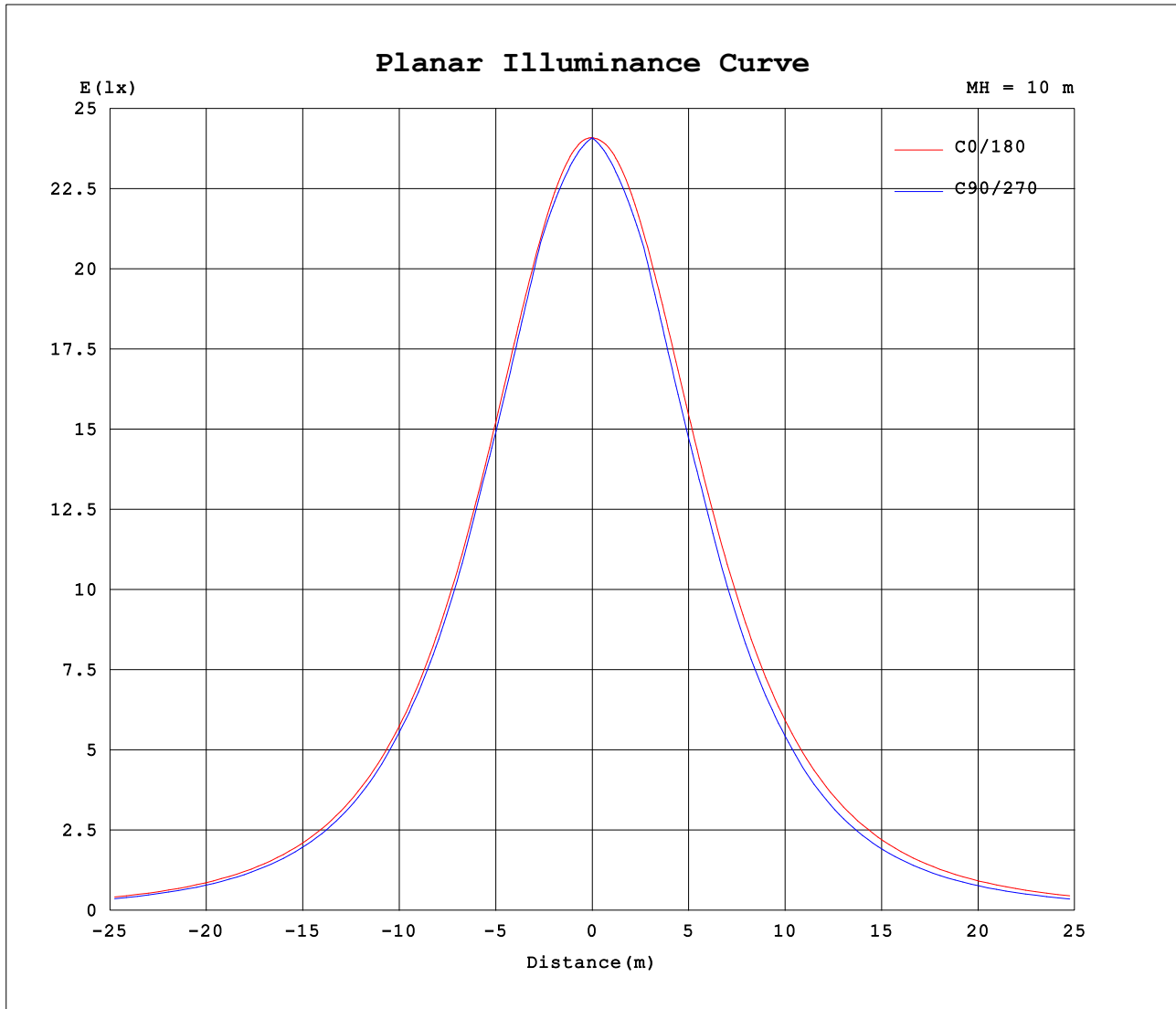
AvgL	cd/m2
L_0~180 (65) av	12002
L_0~180 (75) av	12015
L_0~180 (85) av	16015
L_90~270 (65) av	10326
L_90~270 (75) av	8882
L_90~270 (85) av	0
L_45 (65) av	11430
L_45 (75) av	11038
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:13 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

