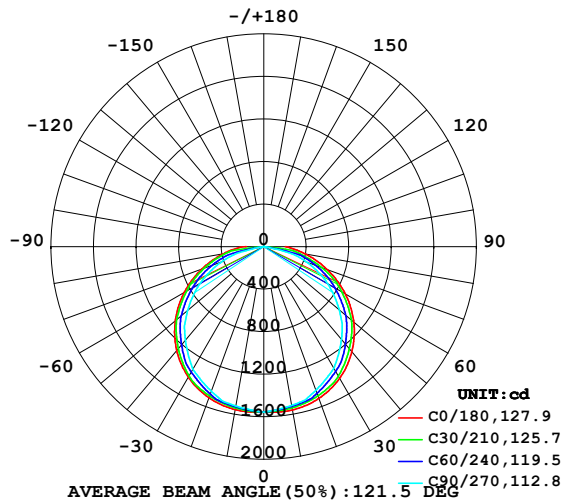


LUMINAIRE PHOTOMETRIC TEST REPORT

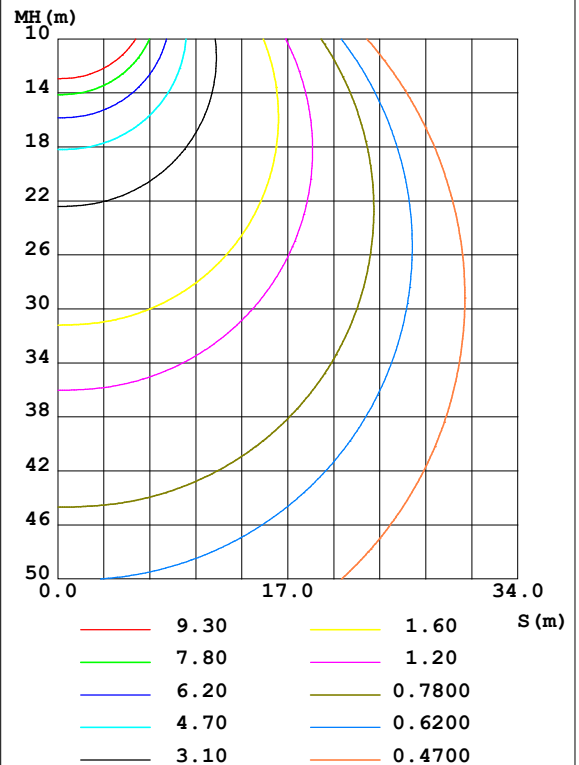
Test:U:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.21 lm/W			
MODEL		I _{max} (cd)	1562	S/MH(C0/180)	1.35
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	4917.6	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	4917.57	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.50

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:27 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	1559	1532	1516	1531	1556	1534	1521	1536	0- 10	147.3	147.3	2.99,2.99
20	1518	1489	1436	1487	1512	1494	1446	1497	10- 20	428.1	575.3	11.7,11.7
30	1429	1375	1320	1372	1418	1380	1332	1385	20- 30	661.2	1236	25.1,25.1
40	1289	1237	1137	1231	1274	1241	1148	1249	30- 40	817.2	2054	41.8,41.8
50	1106	1039	928.3	1028	1086	1040	934.9	1048	40- 50	873.2	2927	59.5,59.5
60	883.3	813.8	693.3	799.0	864.9	811.7	693.6	819.5	50- 60	820.3	3747	76.2,76.2
70	637.2	567.6	433.1	554.2	621.6	565.9	425.5	570.5	60- 70	667.0	4414	89.8,89.8
80	394.8	270.9	0	259.8	384.5	270.3	0	269.6	70- 80	418.4	4833	98.3,98.3
90	203.4	0	0	0	172.9	0	0	0	80- 90	84.98	4918	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): 2489.8 lm

%lum = 50.6%

%lamp = 50.6%

Conical surface Flux(120deg): 3747.2 lm

%lum = 76.2%

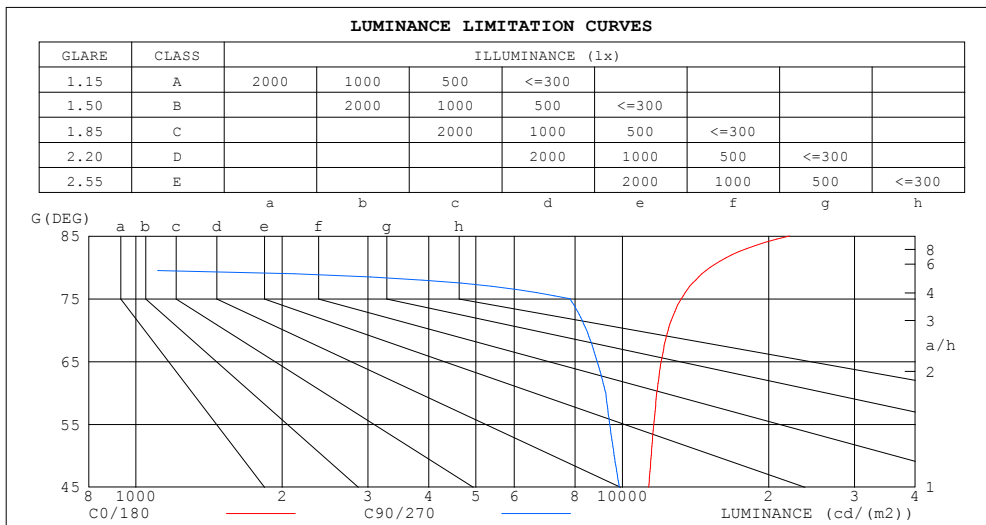
%lamp = 76.2%

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22083	0
80	15159	0
75	13221	7803
70	12420	8441
65	12026	8884
60	11777	9244
55	11602	9424
50	11467	9627
45	11337	9859

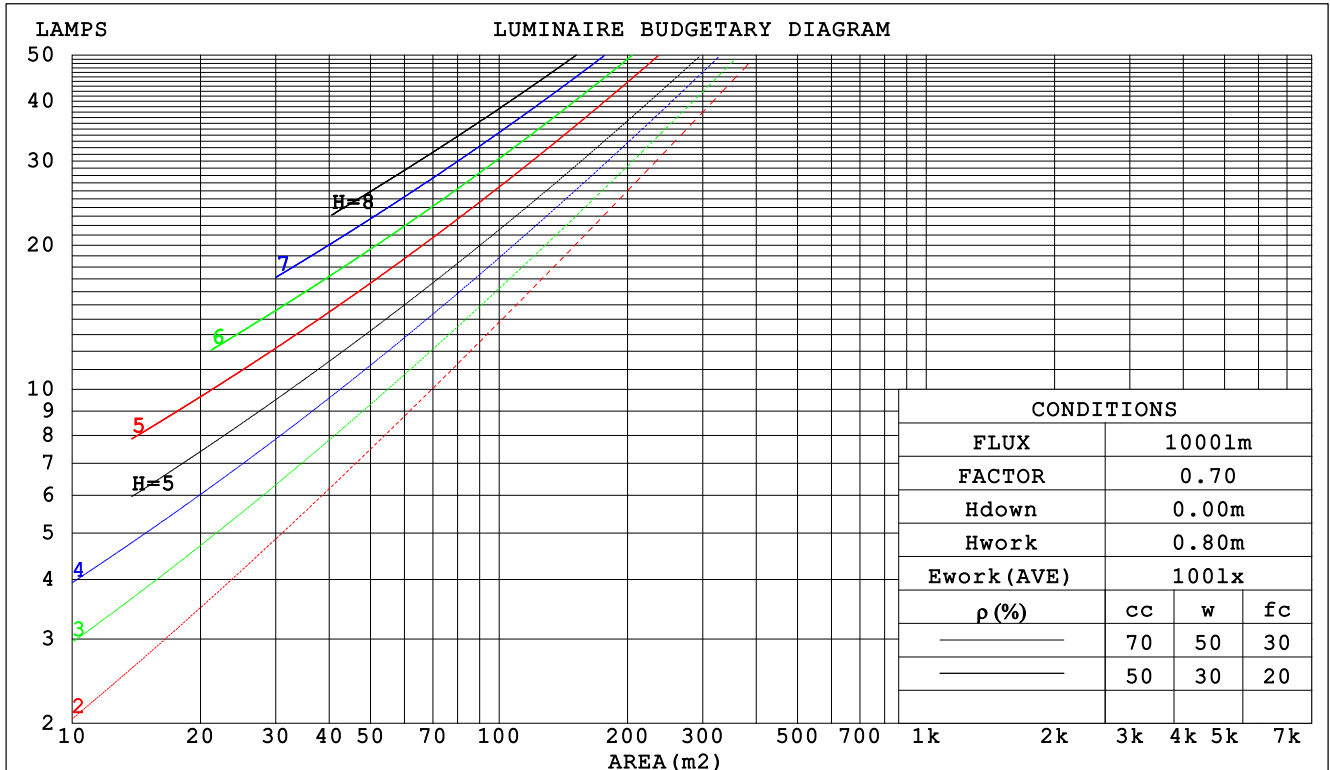
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:27 February 2025

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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	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	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.74	.81	.76	.72	.78	.74	.70	.68
3.0	.78	.70	.63	.76	.69	.62	.73	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.39	.50	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.24	.35	.29	.24	.23



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	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	.320	.182	.058	.313	.179	.057	.300	.172	.055	.288	.166	.053	.276	.160	.052		
2.0	.302	.165	.051	.296	.163	.050	.284	.158	.049	.273	.153	.048	.263	.149	.047		
3.0	.279	.148	.044	.273	.146	.044	.263	.142	.043	.253	.139	.042	.244	.135	.042		
4.0	.256	.133	.039	.251	.132	.039	.242	.128	.038	.233	.125	.038	.225	.122	.037		
5.0	.236	.120	.035	.232	.119	.035	.224	.116	.034	.216	.114	.034	.209	.112	.034		
6.0	.218	.110	.031	.215	.108	.031	.207	.106	.031	.200	.104	.031	.194	.102	.030		
7.0	.203	.100	.028	.199	.099	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028		
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.175	.089	.026	.170	.087	.025		
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.159	.081	.023		
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.077	.022	.150	.076	.022		

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	.181	.156	.134	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.097	.149	.114	.084	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.073	.142	.099	.063	.098	.069	.044	.056	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.130	.079	.040	.089	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.082	.038	.124	.071	.033	.085	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.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:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm										
NAME: GLM-PLS128C1200(4000K)					TYPE:LED			WEIGHT:		
SPEC.:Power:40.2W Current:350mA Voltage:105.2V					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	23.3	22.0	23.5	23.7	20.7	22.3	21.0	22.5	22.7
3H	23.6	25.1	23.9	25.3	25.5	22.3	23.7	22.6	24.0	24.2
4H	24.5	25.8	24.8	26.1	26.4	22.9	24.3	23.2	24.5	24.8
6H	25.2	26.5	25.6	26.8	27.1	22.9	24.2	23.3	24.5	24.8
8H	25.6	26.9	26.0	27.2	27.5	22.9	24.1	23.2	24.4	24.7
12H	26.1	27.3	26.4	27.6	27.9	22.8	24.0	23.2	24.3	24.6
4H 2H	22.3	23.7	22.6	23.9	24.2	21.6	23.0	21.9	23.2	23.5
3H	24.4	25.6	24.8	25.9	26.2	23.4	24.6	23.7	24.9	25.2
4H	25.4	26.5	25.8	26.8	27.2	24.1	25.2	24.5	25.5	25.9
6H	26.3	27.3	26.7	27.7	28.0	24.2	25.2	24.6	25.6	25.9
8H	26.8	27.7	27.2	28.1	28.5	24.2	25.1	24.6	25.5	25.9
12H	27.4	28.2	27.8	28.6	29.0	24.1	25.0	24.6	25.4	25.8
8H 4H	25.7	26.7	26.2	27.0	27.4	24.6	25.6	25.1	25.9	26.3
6H	26.9	27.7	27.3	28.1	28.5	24.8	25.6	25.3	26.0	26.4
8H	27.5	28.2	28.0	28.6	29.1	24.8	25.5	25.2	25.9	26.3
12H	28.2	28.8	28.7	29.3	29.7	24.7	25.3	25.2	25.8	26.3
12H 4H	25.7	26.6	26.1	26.9	27.4	24.7	25.6	25.2	26.0	26.4
6H	26.9	27.6	27.4	28.0	28.5	24.9	25.6	25.4	26.0	26.5
8H	27.6	28.1	28.0	28.6	29.1	24.9	25.5	25.4	25.9	26.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.6				

CIE Pub.117, 4918 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.5$)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

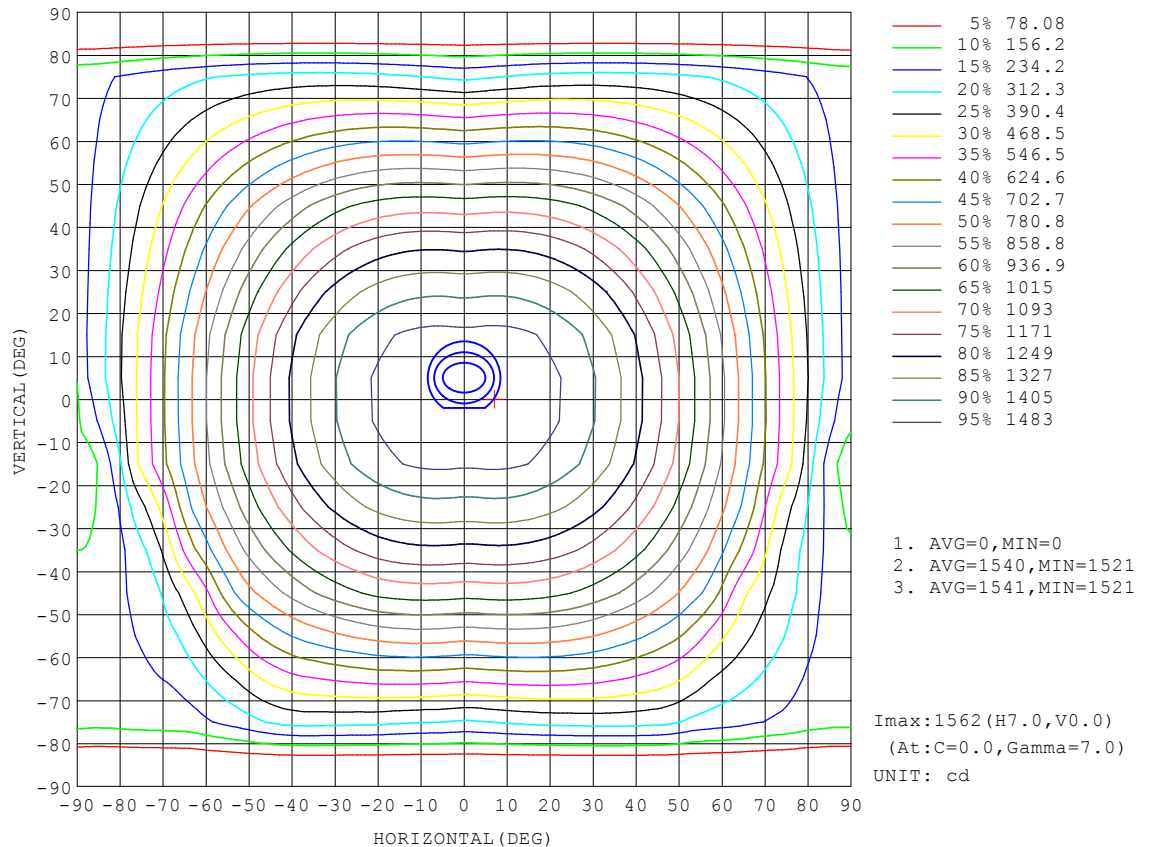
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	55	47
1.25	82	71	63	80	70	63	77	69	62	55
1.50	87	76	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	68
2.50	98	90	84	96	88	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	98	94	85
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:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

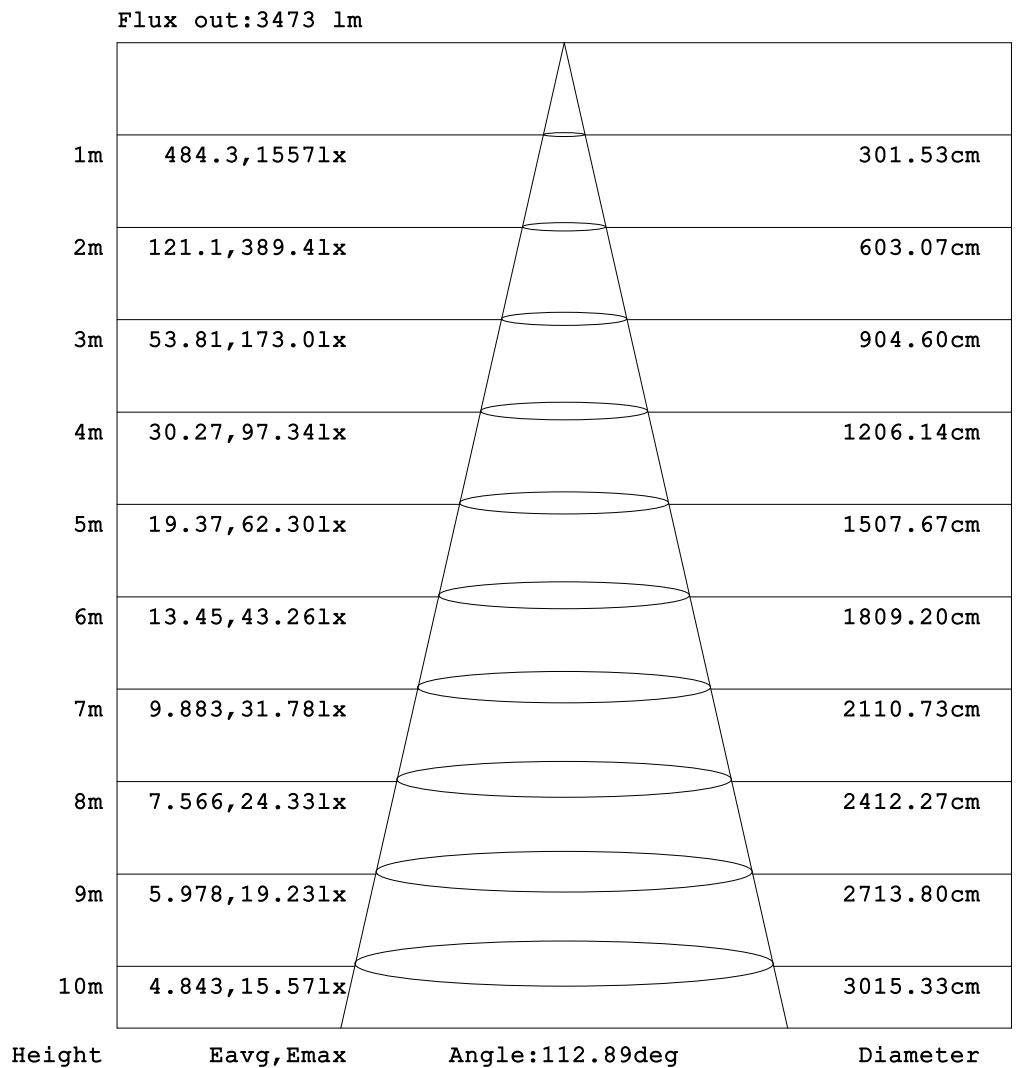


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:27 February 2025

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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



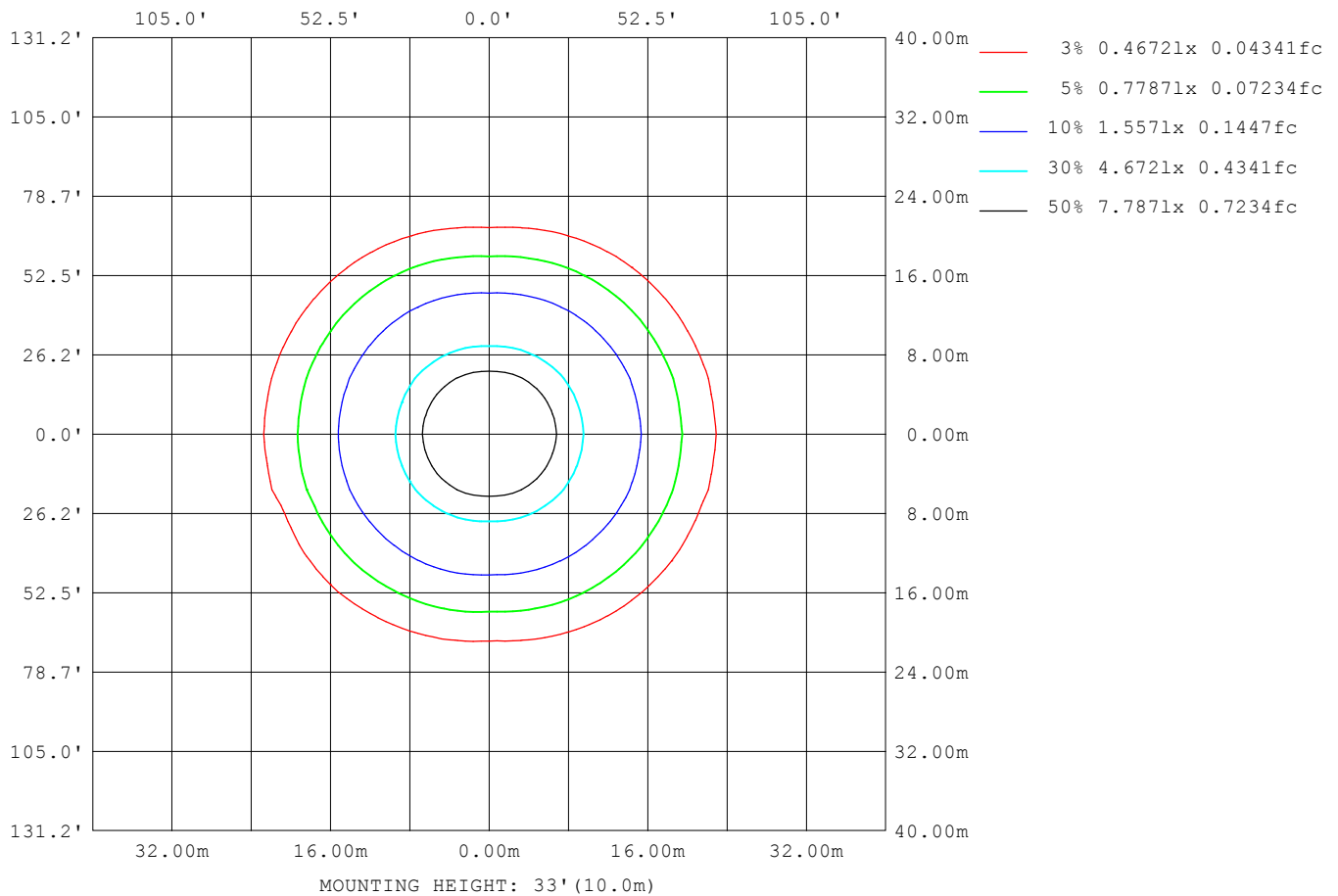
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	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:27 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:220.23V I:0.1948A P:40.238W PF:0.9628 Freq:49.99Hz Lamp Flux:4917.57x1 lm		
NAME: GLM-PLS128C1200 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:40.2W Current:350mA Voltage:105.2V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

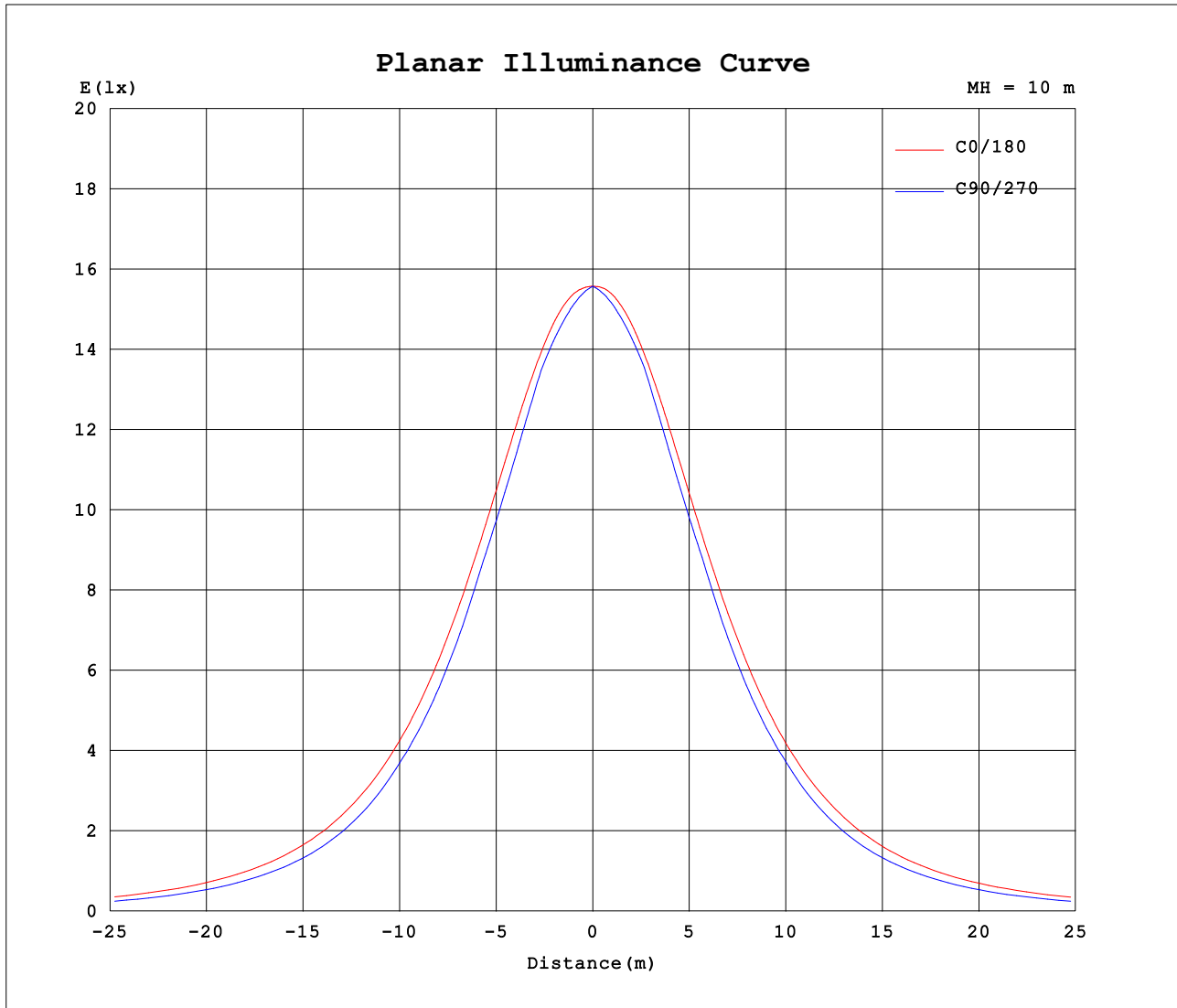
AvgL	cd/m2
L_0~180 (65) av	11891
L_0~180 (75) av	13044
L_0~180 (85) av	21776
L_90~270 (65) av	8855
L_90~270 (75) av	7655
L_90~270 (85) av	0
L_45 (65) av	10860
L_45 (75) av	11324
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:27 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:27 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:

