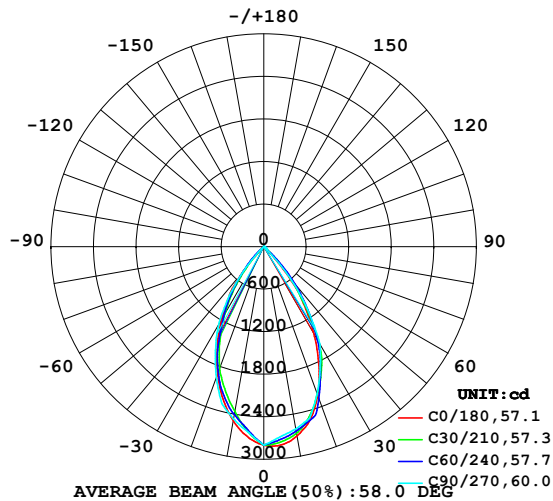


LUMINAIRE PHOTOMETRIC TEST REPORT

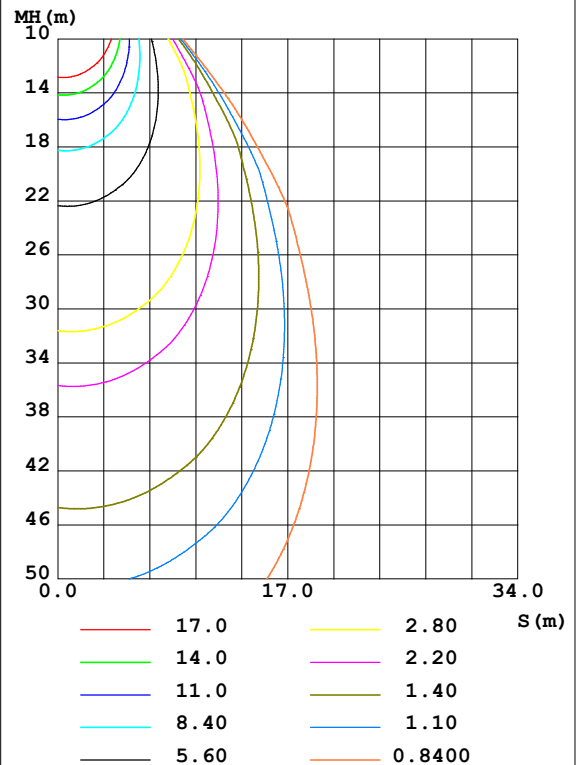
Test:U:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.71 lm/W			
MODEL		I _{max} (cd)	2817	S/MH (C0/180)	0.82
NOMINAL POWER(W)		LOR(%)	100.0	S/MH (C90/270)	0.84
RATED VOLTAGE(V)	220.0	TOTAL FLUX (lm)	2375.5	η UP,DN (C0-180)	0.0,52.9
NOMINAL FLUX(lm)	2375.54	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,47.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.95

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:20 May 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	2711	2653	2610	2473	2492	2375	2468	2554	0- 10	251.4	251.4	10.6,10.6
20	2227	2331	2205	2016	1907	1844	1962	2133	10- 20	650.6	901.9	38,38
30	1411	1483	1584	1255	1194	1099	1281	1279	20- 30	772.3	1674	70.5,70.5
40	524.1	638.1	570.4	555.0	443.2	385.9	427.0	458.1	30- 40	558.7	2233	94,94
50	1.105	109.0	42.41	84.47	0	35.56	0	52.63	40- 50	137.0	2370	99.8,99.8
60	0	0.0665	0.0000	0	0	0	0	0	50- 60	5.539	2375	100,100
70	0	0	0	0	0	0	0	0	60- 70	0.0896	2376	100,100
80	0	0	0	0	0	0	0	0	70- 80	0	2376	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	2376	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): 2345 lm

%lum = 98.7%

%lamp = 98.7%

Conical surface Flux(120deg): 2375.4 lm

%lum = 100.0%

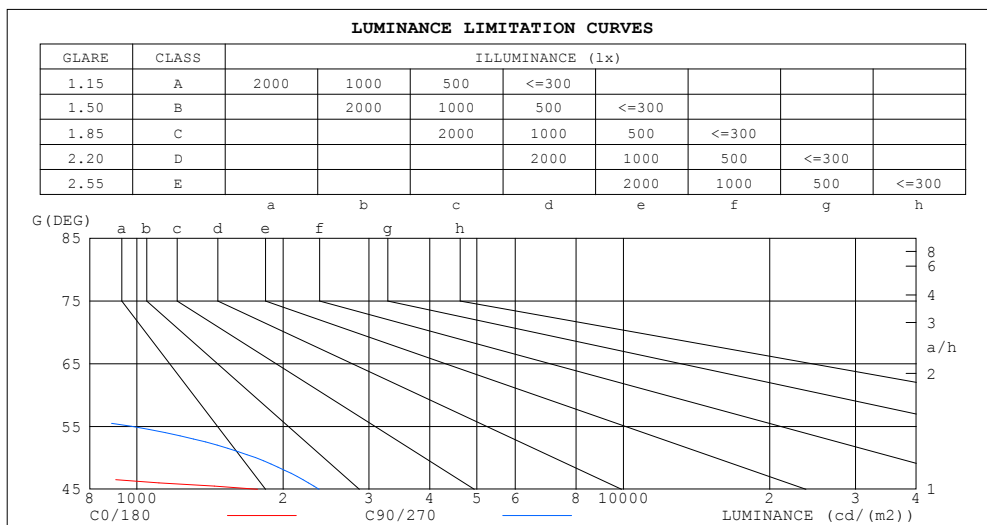
%lamp = 100.0%

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	0
60	0	0
55	0	974
50	46	1756
45	1771	2370

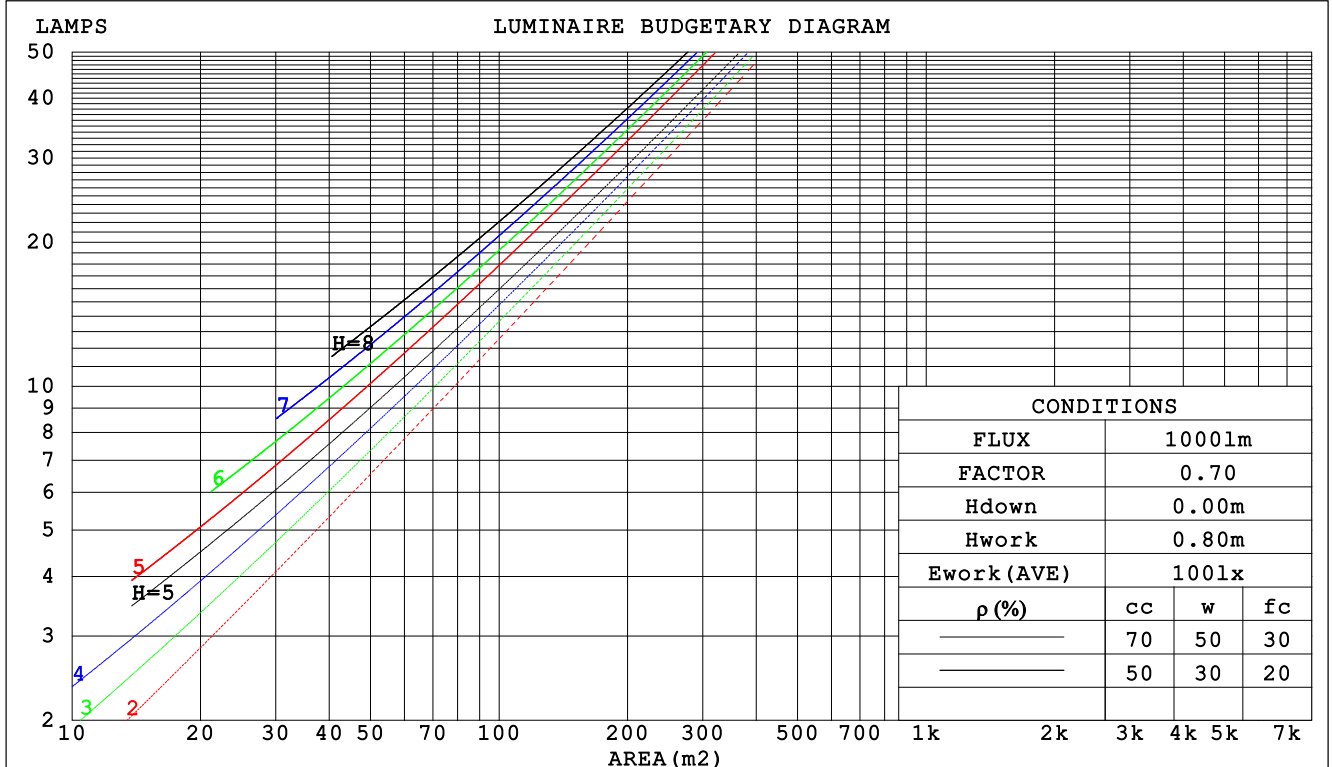
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 2025

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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	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	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.96	.91	.88	.95	.90	.87	.92	.89	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.84	.79	.74	.83	.78	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.71
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.62	.57	.53	.62	.56	.53	.61	.56	.53	.60	.56	.52	.60	.55	.52	.51



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	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	.176	.100	.032	.169	.096	.031	.156	.090	.029	.145	.084	.027	.134	.078	.025		
2.0	.169	.092	.028	.163	.090	.028	.152	.085	.026	.143	.080	.025	.134	.076	.024		
3.0	.161	.086	.026	.156	.084	.025	.147	.080	.024	.139	.076	.023	.131	.073	.022		
4.0	.154	.080	.024	.150	.078	.023	.142	.075	.022	.135	.072	.022	.128	.070	.021		
5.0	.147	.075	.022	.143	.074	.021	.137	.071	.021	.130	.069	.020	.124	.066	.020		
6.0	.141	.071	.020	.138	.069	.020	.132	.067	.020	.126	.065	.019	.121	.064	.019		
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.018	.122	.062	.018	.117	.061	.018		
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017		
9.0	.124	.060	.017	.122	.059	.017	.117	.058	.016	.113	.057	.016	.110	.056	.016		
10.0	.119	.057	.016	.117	.057	.016	.113	.055	.016	.110	.054	.015	.106	.053	.015		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.060	.107	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.096	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.033	.017	.034	.020	.010	.011	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm										
NAME: GLM-PLS128CR300 (3030CW) 4000K					TYPE:LED			WEIGHT:		
SPEC.:					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	16.5	17.5	16.7	17.6	17.8	17.2	18.2	17.5	18.3	18.5
3H	16.3	17.2	16.6	17.4	17.6	17.1	17.9	17.3	18.1	18.3
4H	16.3	17.1	16.5	17.3	17.5	17.0	17.8	17.2	18.0	18.2
6H	16.2	16.9	16.5	17.2	17.4	16.9	17.6	17.2	17.9	18.1
8H	16.1	16.9	16.4	17.1	17.4	16.8	17.6	17.1	17.8	18.1
12H	16.1	16.8	16.4	17.0	17.3	16.8	17.5	17.1	17.8	18.0
4H 2H	16.3	17.1	16.5	17.3	17.5	17.0	17.8	17.2	18.0	18.2
3H	16.1	16.8	16.4	17.1	17.3	16.8	17.5	17.1	17.8	18.0
4H	16.0	16.6	16.3	16.9	17.2	16.7	17.3	17.0	17.6	17.9
6H	15.9	16.4	16.3	16.8	17.1	16.6	17.2	17.0	17.5	17.8
8H	15.8	16.4	16.2	16.7	17.1	16.5	17.1	16.9	17.4	17.8
12H	15.8	16.3	16.2	16.6	17.0	16.5	17.0	16.9	17.3	17.7
8H 4H	15.8	16.4	16.2	16.7	17.1	16.5	17.1	16.9	17.4	17.8
6H	15.7	16.2	16.2	16.6	17.0	16.4	16.9	16.9	17.3	17.7
8H	15.7	16.1	16.1	16.5	16.9	16.4	16.8	16.8	17.2	17.6
12H	15.6	15.9	16.1	16.4	16.9	16.3	16.7	16.8	17.1	17.6
12H 4H	15.8	16.3	16.2	16.6	17.0	16.5	17.0	16.9	17.3	17.7
6H	15.7	16.1	16.1	16.5	16.9	16.4	16.8	16.8	17.2	17.6
8H	15.6	15.9	16.1	16.4	16.9	16.3	16.7	16.8	17.1	17.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 1.\$					+ 2.6 / -19.4				
1.5H	+ 5.4 / -42.5					+ 5.3 / -16.2				
2.0H	+ 6.6 / - 1.\$					+ 4.6 / - 1.\$				

CIE Pub.117, 2376 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.0)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

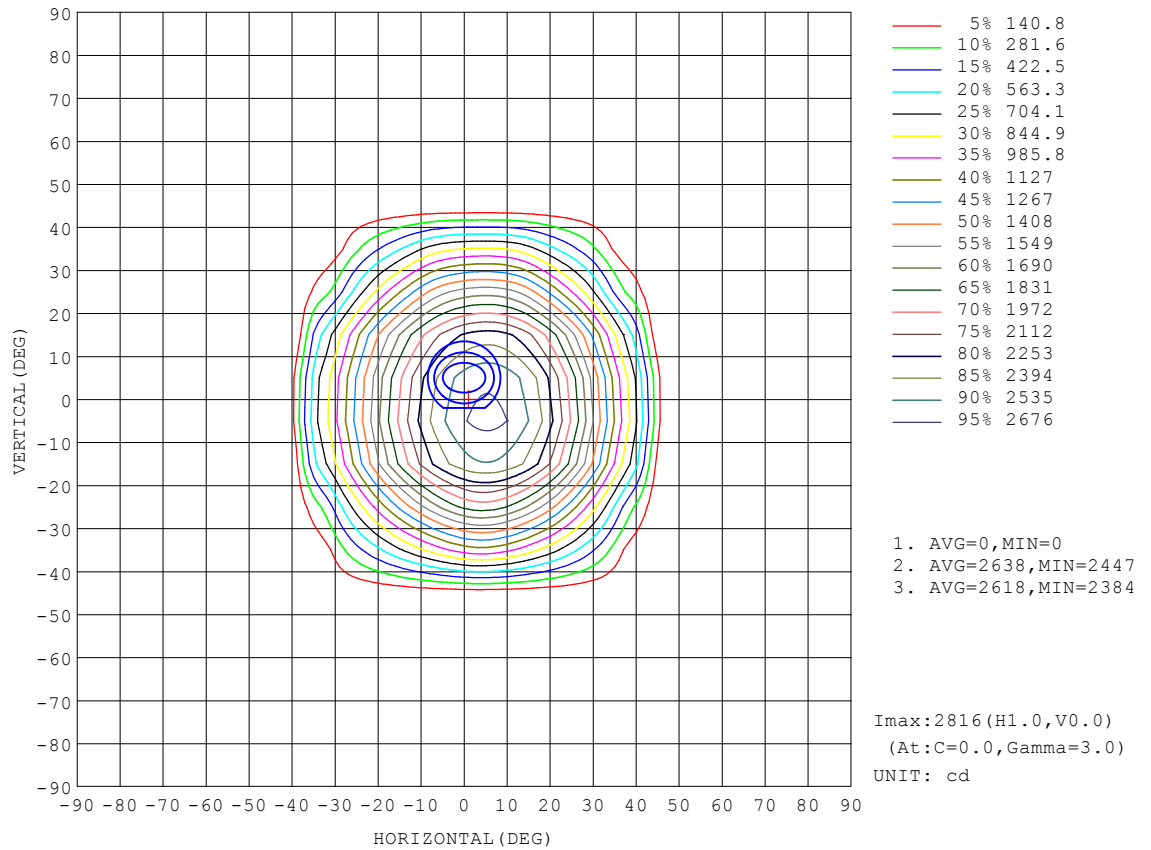
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	87	81	78	87	81	78	74
0.80	95	90	86	95	89	86	93	89	85	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

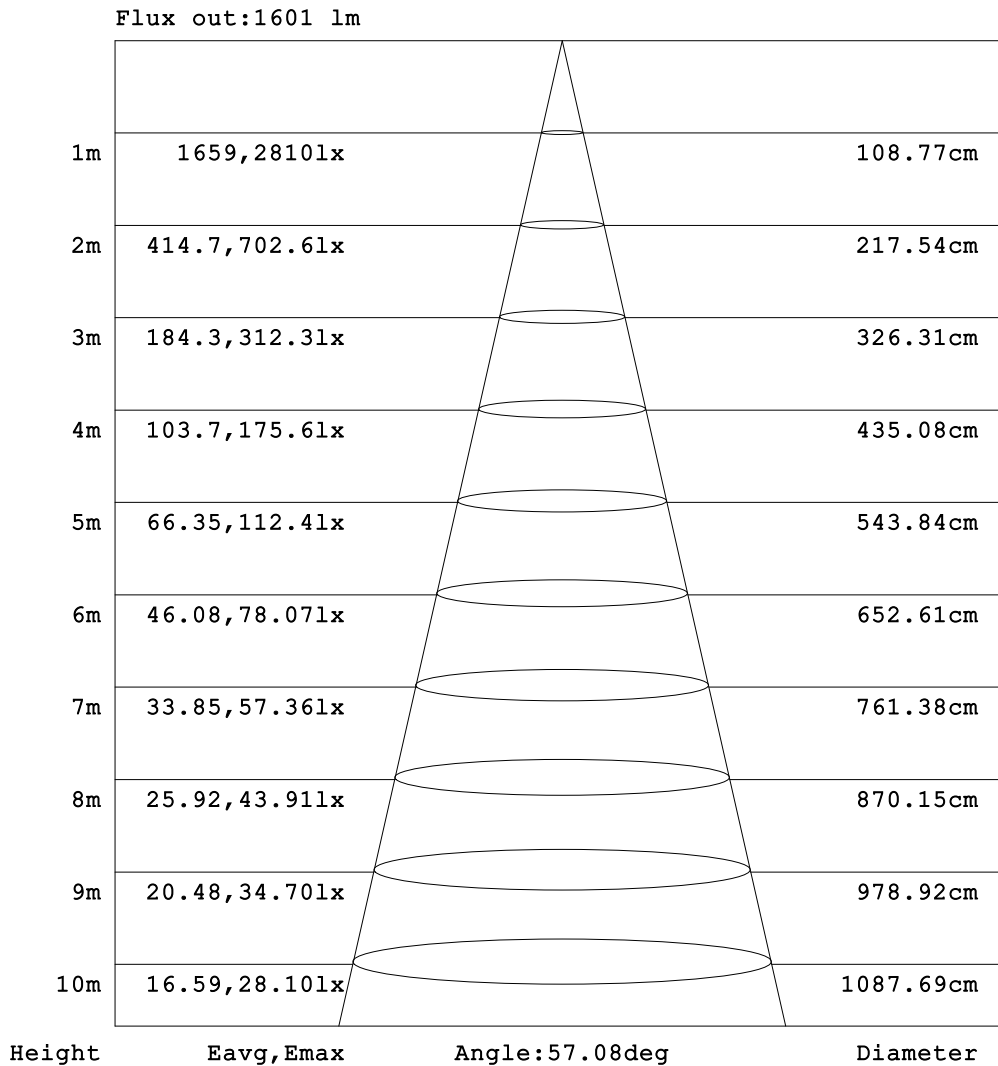


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 2025

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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



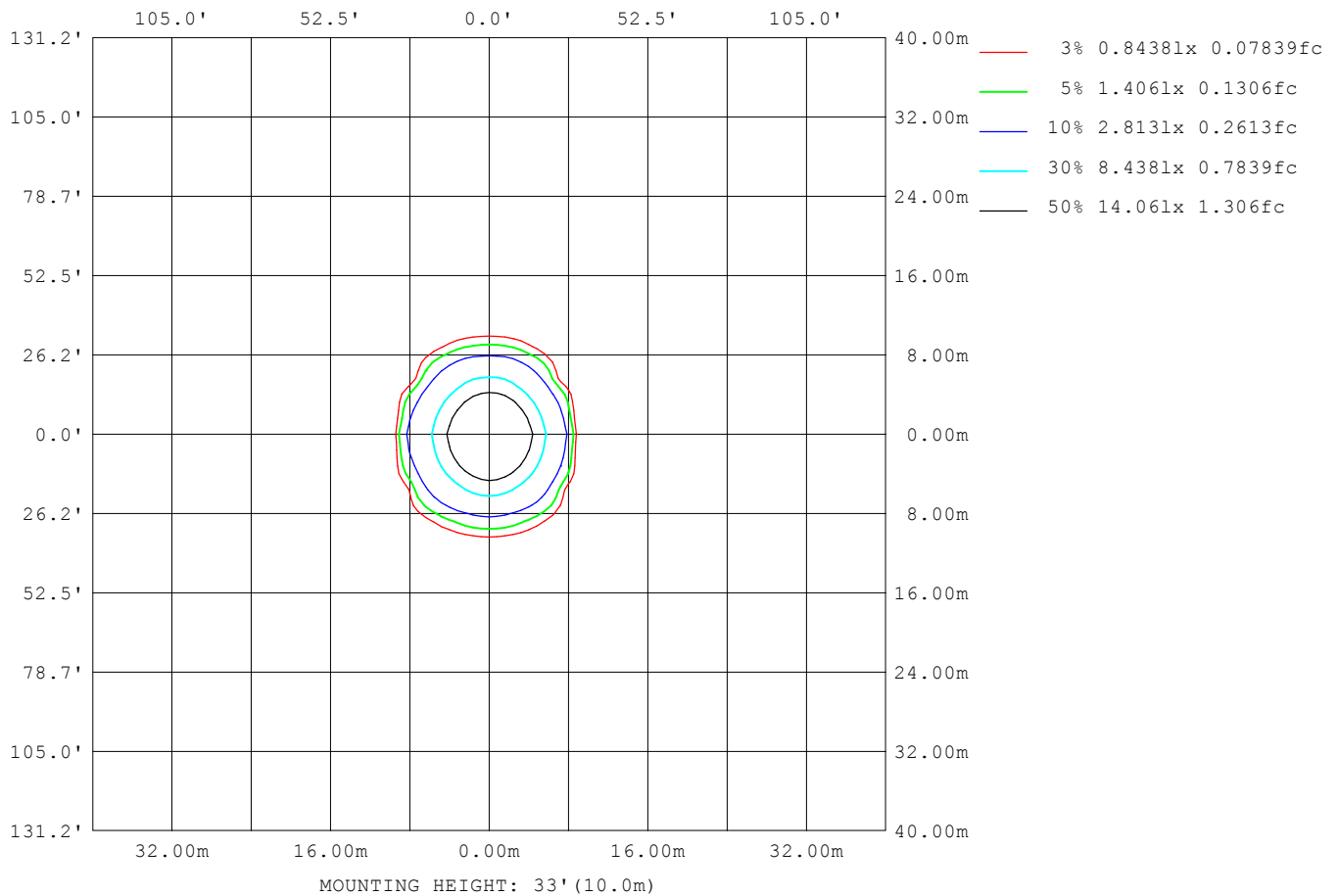
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	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:20 May 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:219.59V I:0.0821A P:17.766W PF:0.9746 Freq:49.99Hz Lamp Flux:2375.54x1 lm		
NAME: GLM-PLS128CR300 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

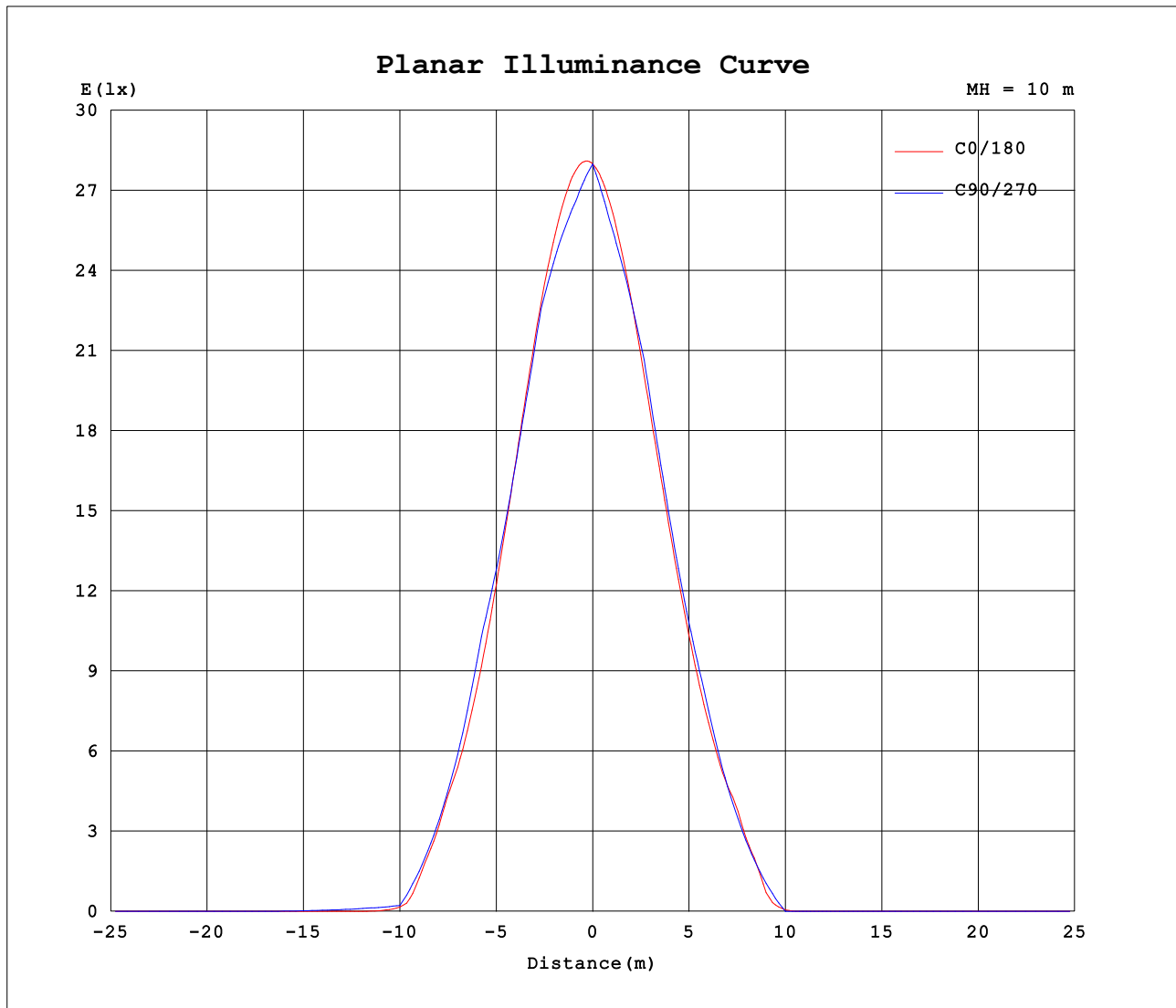
AvgL	cd/m2
L_0~180 (65) av	0
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	0
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	0
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 May 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:20 May 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:

