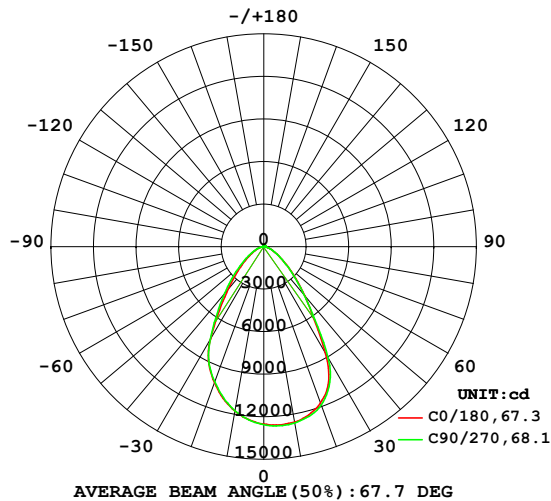


LUMINAIRE PHOTOMETRIC TEST REPORT

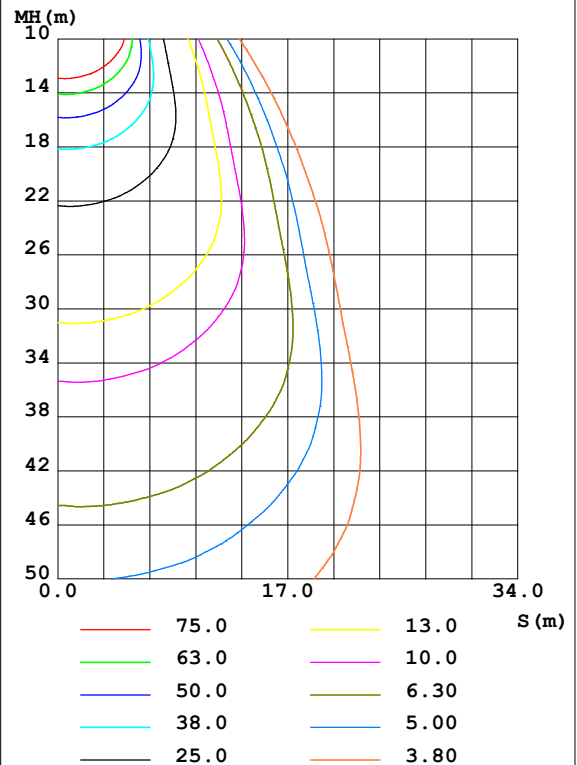
Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 183.20 lm/W			
MODEL		I _{max} (cd)	12690	S/MH (C0/180)	0.98
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	0.99
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18186	η UP, DN (C0-180)	1.2, 51.3
NOMINAL FLUX (lm)	18185.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 46.3
LAMPS INSIDE	1	η up (%)	2.4	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.6	CIBSE SHR MAX	1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1256	1262	1176	1176					0- 10	1180	1180	6.49,6.49
20	1173	1188	1019	1014					10- 20	3285	4465	24.6,24.6
30	873.5	910.7	751.5	755.2					20- 30	4526	8991	49.4,49.4
40	450.8	441.5	390.1	428.9					30- 40	3742	12733	70,70
50	227.1	223.9	202.9	232.2					40- 50	2415	15148	83.3,83.3
60	110.8	111.2	101.2	113.9					50- 60	1416	16564	91.1,91.1
70	49.64	49.75	48.15	51.52					60- 70	762.0	17326	95.3,95.3
80	15.69	16.53	17.50	18.63					70- 80	338.7	17665	97.1,97.1
90	5.125	5.133	3.520	3.540					80- 90	85.56	17750	97.6,97.6
100	4.442	4.469	4.114	4.161					90-100	46.59	17797	97.9,97.9
110	4.503	4.533	5.057	5.135					100-110	47.59	17844	98.1,98.1
120	5.324	5.332	6.329	6.373					110-120	52.38	17897	98.4,98.4
130	6.750	6.702	7.861	7.849					120-130	58.52	17955	98.7,98.7
140	8.523	8.368	9.692	9.542					130-140	62.82	18018	99.1,99.1
150	10.45	10.18	11.74	11.30					140-150	62.49	18081	99.4,99.4
160	12.37	11.93	13.30	12.61					150-160	54.21	18135	99.7,99.7
170	14.04	13.46	14.42	13.62					160-170	37.38	18172	99.9,99.9
180	14.88	14.22	14.96	14.17					170-180	13.54	18186	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 14084 lm

%lum = 77.4%

%lamp = 77.4%

Conical surface Flux(120deg): 16564 lm

%lum = 91.1%

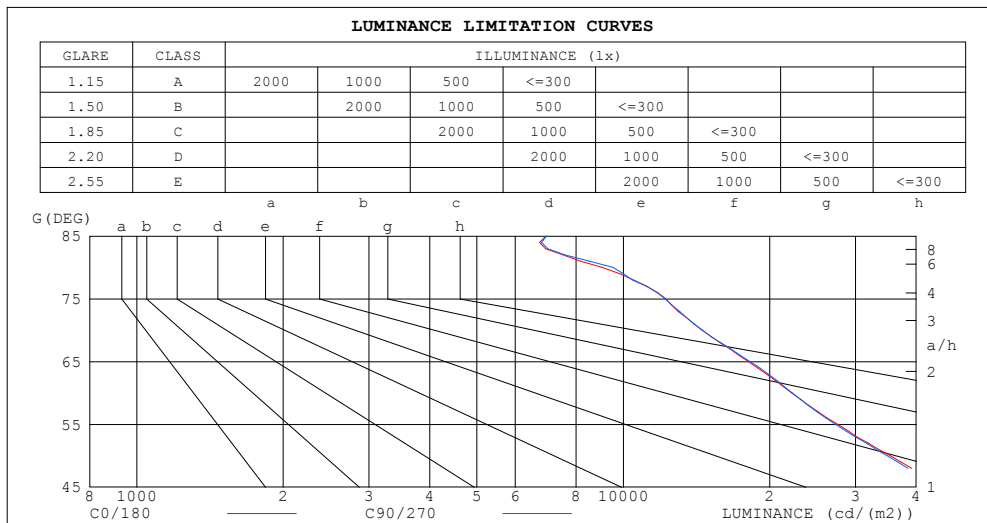
%lamp = 91.1%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6935	6957
80	9036	9521
75	12220	12191
70	14513	14546
65	18082	18220
60	22162	22241
55	27555	27297
50	35327	34836
45	45604	44566

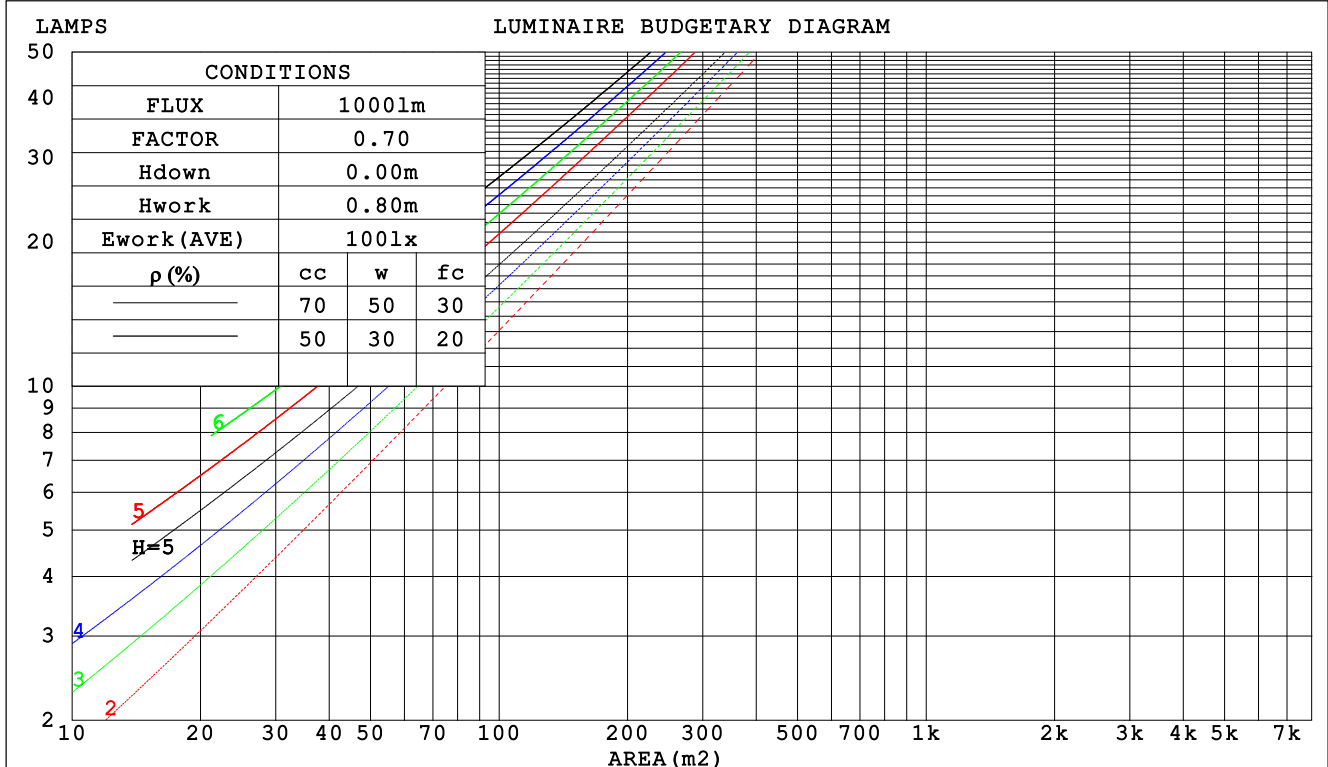
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	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						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.08	1.05	1.02	1.05	1.02	.00	1.01	.98	.96	.96	.95	.93	.93	.91	.90	.88
2.0	.98	.92	.88	.96	.91	.87	.92	.88	.85	.88	.85	.82	.85	.83	.80	.78
3.0	.89	.83	.78	.87	.81	.77	.84	.79	.75	.81	.77	.74	.79	.75	.72	.70
4.0	.81	.74	.69	.80	.73	.68	.77	.72	.67	.75	.70	.66	.72	.68	.65	.63
5.0	.74	.67	.62	.73	.67	.62	.71	.65	.61	.69	.64	.60	.67	.63	.59	.57
6.0	.69	.61	.56	.68	.61	.56	.66	.60	.55	.64	.59	.55	.62	.58	.54	.52
7.0	.63	.56	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.58	.53	.50	.48
8.0	.59	.52	.47	.58	.51	.47	.57	.51	.46	.55	.50	.46	.54	.49	.46	.44
9.0	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.46	.43	.51	.46	.42	.41
10.0	.51	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.48	.43	.39	.38



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.226	.129	.041	.219	.125	.040	.205	.117	.037	.192	.111	.035	.180	.104	.034	
2.0	.217	.119	.037	.211	.116	.036	.199	.110	.034	.187	.105	.033	.177	.100	.032	
3.0	.206	.110	.033	.200	.107	.032	.189	.103	.031	.179	.098	.030	.170	.094	.029	
4.0	.194	.101	.030	.189	.099	.029	.180	.095	.028	.171	.092	.028	.163	.088	.027	
5.0	.183	.093	.027	.178	.092	.027	.170	.089	.026	.162	.086	.025	.155	.083	.025	
6.0	.173	.087	.025	.169	.085	.025	.161	.083	.024	.154	.080	.024	.148	.078	.023	
7.0	.163	.081	.023	.160	.080	.023	.153	.077	.022	.147	.075	.022	.141	.073	.021	
8.0	.155	.076	.021	.151	.075	.021	.145	.073	.021	.140	.071	.020	.134	.069	.020	
9.0	.147	.071	.020	.144	.070	.020	.138	.068	.019	.133	.067	.019	.128	.065	.019	
10.0	.140	.067	.019	.137	.066	.018	.132	.065	.018	.127	.063	.018	.123	.062	.018	

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	.209	.209	.209	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.193	.175	.159	.165	.150	.137	.113	.103	.095	.065	.060	.055	.021	.019	.018	
2.0	.181	.151	.126	.155	.130	.109	.106	.090	.076	.061	.052	.044	.020	.017	.014	
3.0	.171	.132	.102	.146	.114	.088	.100	.079	.062	.058	.046	.037	.019	.015	.012	
4.0	.162	.118	.085	.139	.102	.074	.096	.071	.052	.055	.042	.031	.018	.014	.010	
5.0	.154	.107	.073	.132	.093	.063	.091	.065	.045	.053	.038	.027	.017	.012	.009	
6.0	.147	.099	.064	.127	.085	.056	.087	.060	.039	.051	.035	.023	.016	.012	.008	
7.0	.141	.092	.057	.121	.079	.050	.084	.056	.035	.049	.033	.021	.016	.011	.007	
8.0	.135	.086	.052	.116	.074	.045	.080	.052	.032	.047	.031	.019	.015	.010	.006	
9.0	.130	.081	.047	.112	.070	.041	.077	.049	.029	.045	.029	.017	.015	.010	.006	
10.0	.125	.076	.044	.108	.066	.038	.075	.047	.027	.044	.028	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					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	12.9	14.1	13.2	14.3	14.5	12.9	14.1	13.2	14.3	14.6
3H	13.3	14.4	13.6	14.6	14.9	13.3	14.4	13.6	14.7	14.9
4H	13.4	14.5	13.8	14.7	15.0	13.5	14.5	13.8	14.7	15.0
6H	13.5	14.5	13.9	14.7	15.1	13.5	14.5	13.9	14.8	15.1
8H	13.5	14.4	13.8	14.7	15.0	13.5	14.4	13.9	14.7	15.0
12H	13.5	14.3	13.8	14.7	15.0	13.5	14.4	13.8	14.7	15.0
4H 2H	13.0	14.1	13.4	14.3	14.6	13.1	14.1	13.4	14.3	14.6
3H	13.6	14.5	14.0	14.8	15.1	13.6	14.5	14.0	14.8	15.1
4H	13.8	14.6	14.2	14.9	15.3	13.8	14.6	14.2	14.9	15.3
6H	13.9	14.6	14.3	15.0	15.4	13.9	14.6	14.3	15.0	15.4
8H	13.9	14.6	14.4	15.0	15.4	13.9	14.6	14.4	15.0	15.4
12H	13.9	14.5	14.4	14.9	15.4	13.9	14.5	14.4	14.9	15.4
8H 4H	13.8	14.5	14.2	14.9	15.3	13.8	14.5	14.3	14.9	15.3
6H	14.0	14.5	14.5	15.0	15.4	14.0	14.5	14.5	15.0	15.4
8H	14.0	14.5	14.5	14.9	15.4	14.0	14.5	14.5	15.0	15.5
12H	14.0	14.4	14.5	14.9	15.4	14.0	14.4	14.5	14.9	15.4
12H 4H	13.8	14.4	14.2	14.8	15.2	13.8	14.4	14.2	14.8	15.2
6H	14.0	14.4	14.5	14.9	15.4	14.0	14.4	14.5	14.9	15.4
8H	14.0	14.4	14.5	14.9	15.4	14.0	14.4	14.5	14.9	15.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.2				
1.5H	+ 1.0 / - 0.8					+ 1.0 / - 0.7				
2.0H	+ 1.7 / - 1.2					+ 1.6 / - 1.2				

CIE Pub.117, 18186 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.1)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

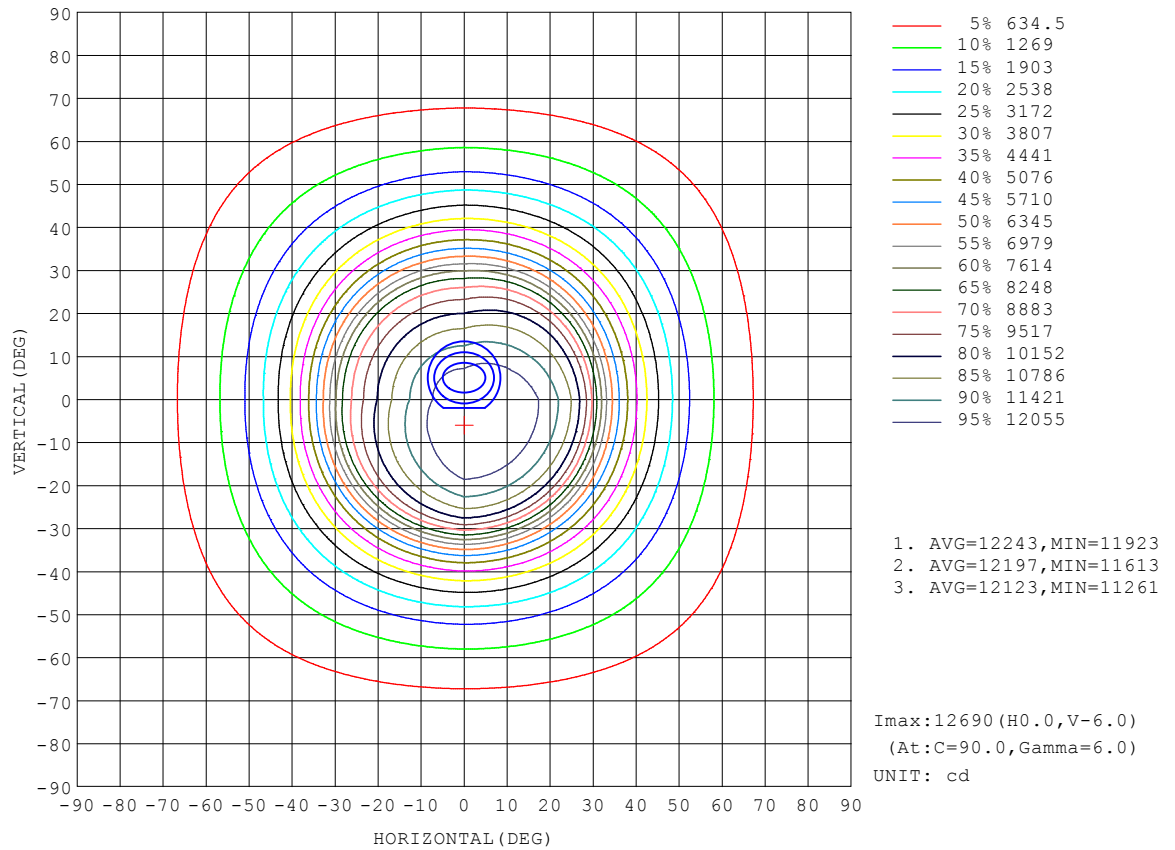
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	73	68	81	73	68	79	72	67	62
1.00	88	80	75	87	80	75	85	80	74	69
1.25	94	87	82	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	93	88	84	78
2.00	102	96	92	101	95	91	97	93	89	83
2.50	105	100	95	103	98	94	99	95	92	85
3.00	107	102	99	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	103	101	98	90
5.00	112	108	106	109	106	104	105	102	100	91
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

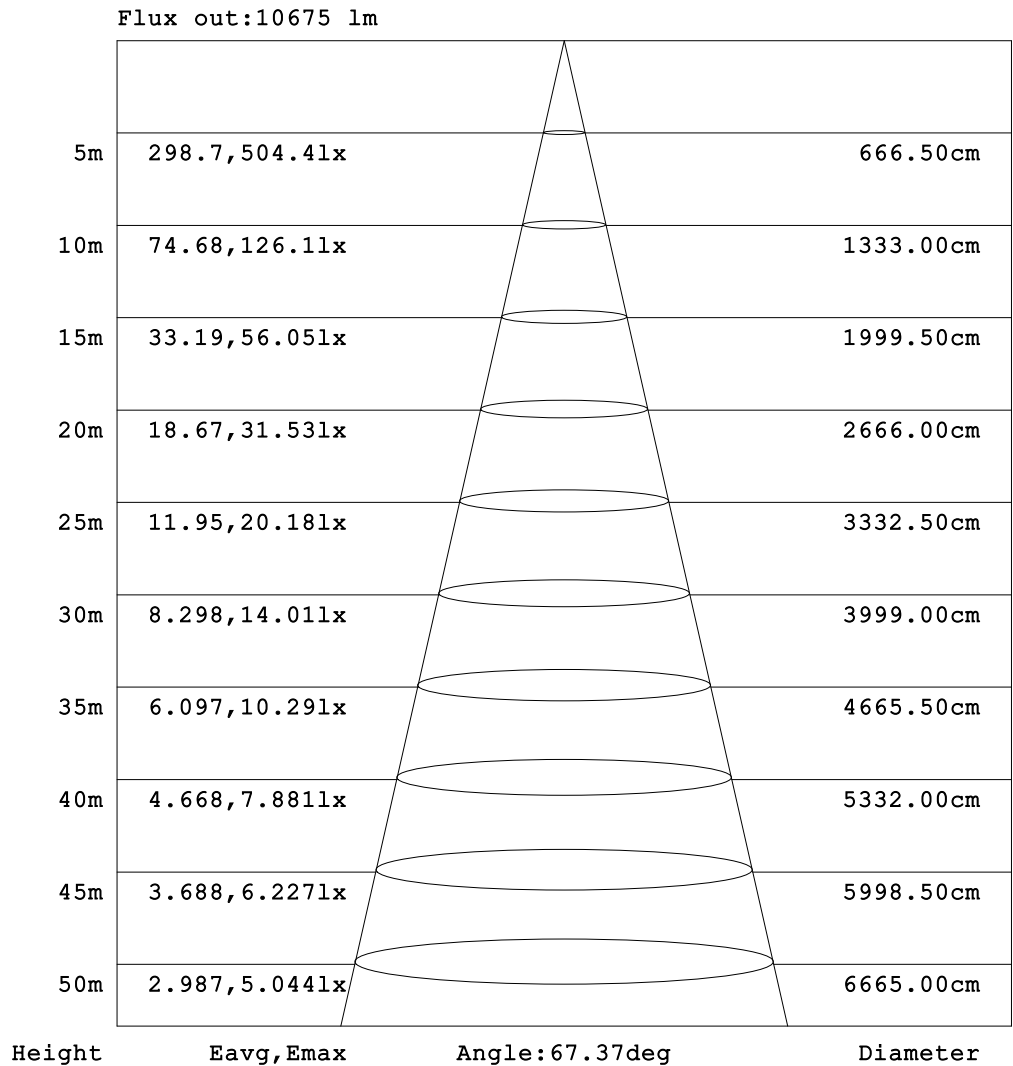


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



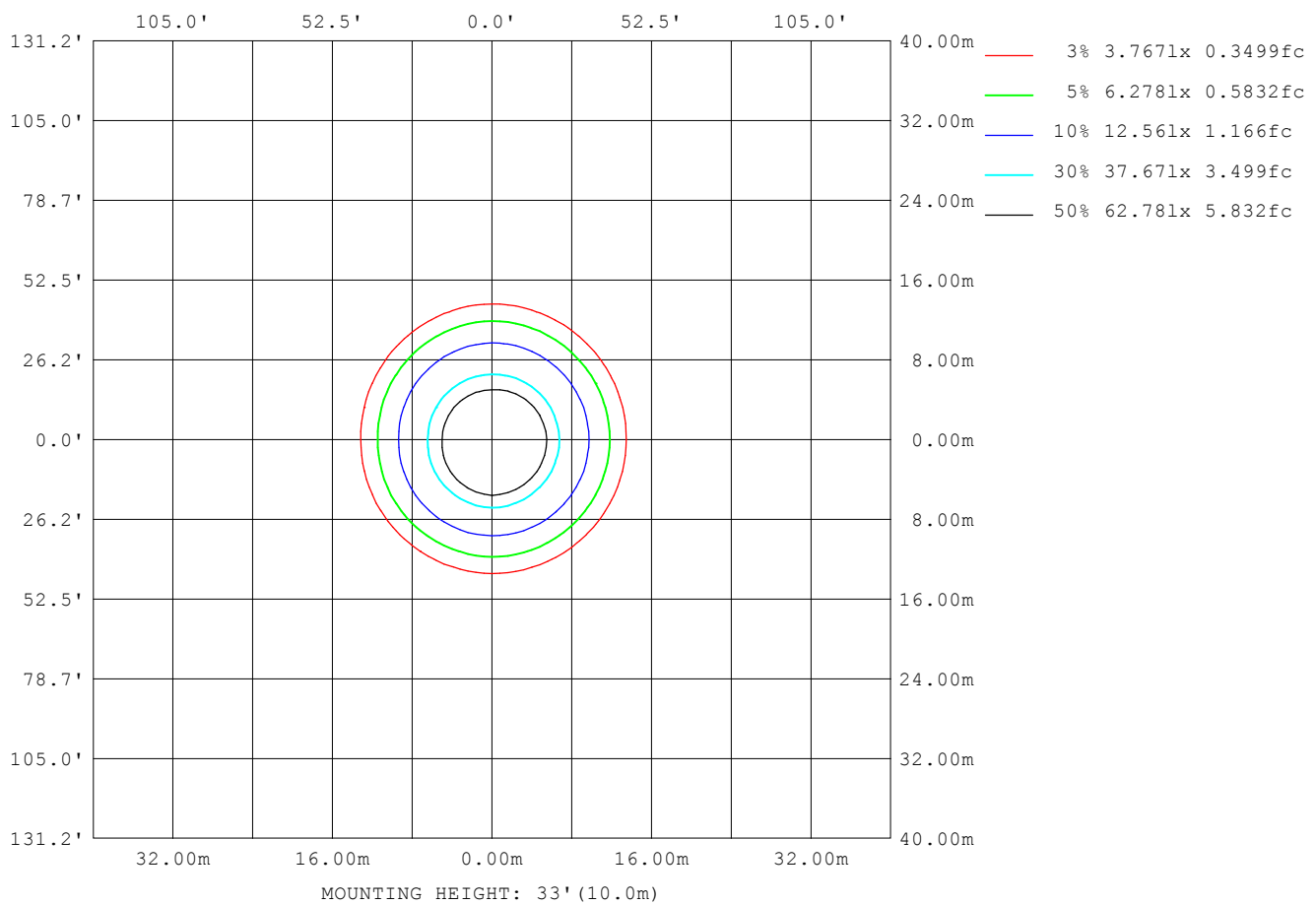
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

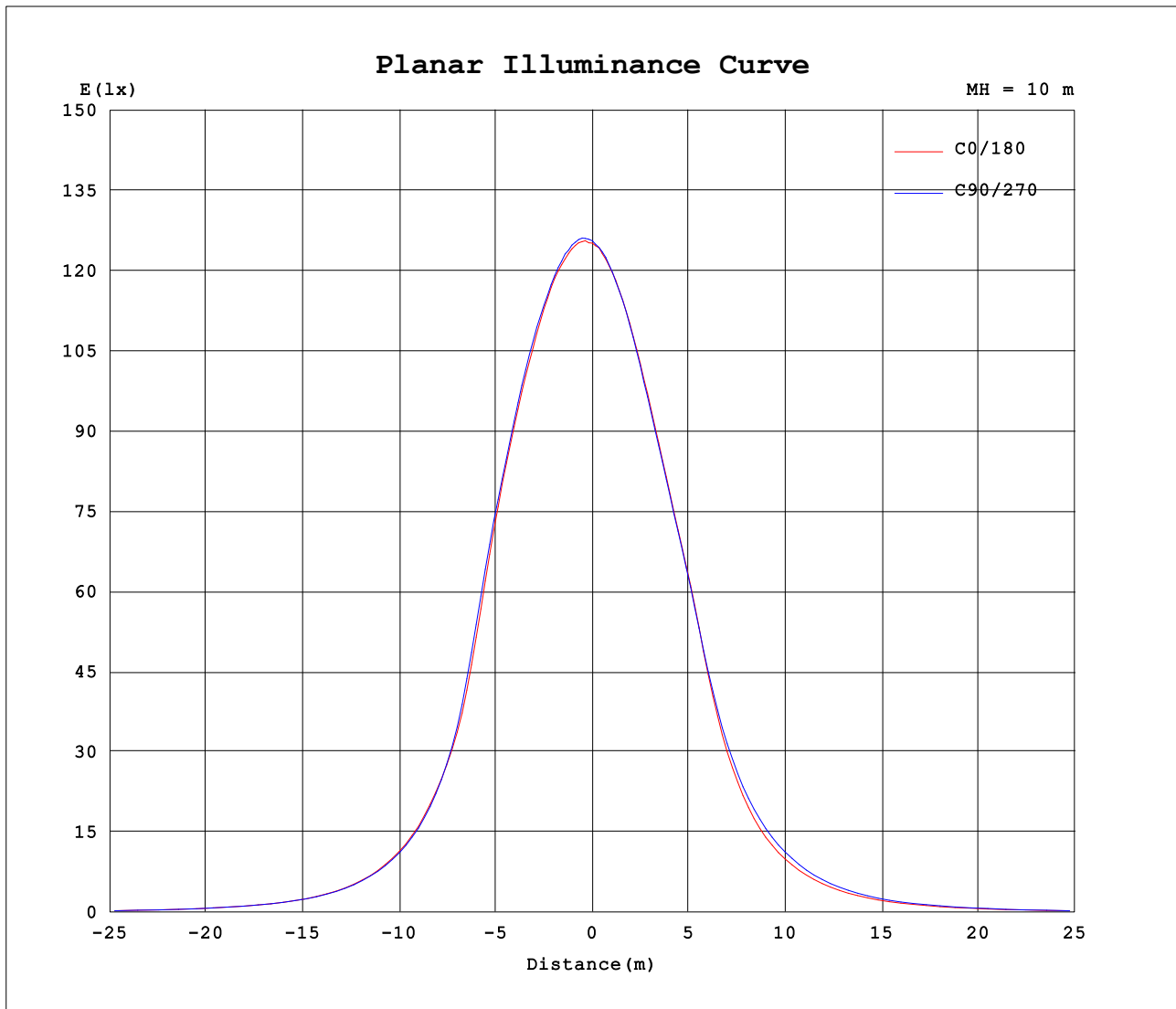
AvgL	cd/m2
L_0~180 (65) av	17531
L_0~180 (75) av	12061
L_0~180 (85) av	6931
L_90~270 (65) av	18414
L_90~270 (75) av	12320
L_90~270 (85) av	7020
L_45 (65) av	18049
L_45 (75) av	12213
L_45 (85) av	6987

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.66V I:0.4738A P:99.269W PF:0.9582 Freq:49.99Hz Lamp Flux:18185.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	90	180	270															
0	1252	1256	1252	1256															
5	1262	1268	1223	1225															
10	1256	1262	1176	1176															
15	1229	1238	1107	1101															
20	1173	1188	1019	1014															
25	1077	1090	916	913															
30	873	911	751	755															
35	612	631	546	574															
40	451	441	390	429															
45	322	315	282	320															
50	227	224	203	232															
55	158	157	144	164															
60	111	111	101	114															
65	76.4	77.0	71.8	78.6															
70	49.6	49.8	48.2	51.5															
75	31.6	31.6	30.8	32.2															
80	15.7	16.5	17.5	18.6															
85	6.04	6.06	6.04	6.17															
90	5.13	5.13	3.52	3.54															
95	4.69	4.71	3.78	3.82															
100	4.44	4.47	4.11	4.16															
105	4.38	4.41	4.52	4.59															
110	4.50	4.53	5.06	5.13															
115	4.81	4.85	5.67	5.73															
120	5.32	5.33	6.33	6.37															
125	5.99	5.98	7.06	7.07															
130	6.75	6.70	7.86	7.85															
135	7.60	7.50	8.73	8.66															
140	8.52	8.37	9.69	9.54															
145	9.48	9.28	10.8	10.5															
150	10.4	10.2	11.7	11.3															
155	11.4	11.1	12.6	12.0															
160	12.4	11.9	13.3	12.6															
165	13.3	12.8	13.9	13.2															
170	14.0	13.5	14.4	13.6															
175	14.6	14.0	14.8	14.0															
180	14.9	14.2	15.0	14.2															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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 Operators:Jason
 Test Date:2025-03-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.250m [K=1.0000]
 Remarks: