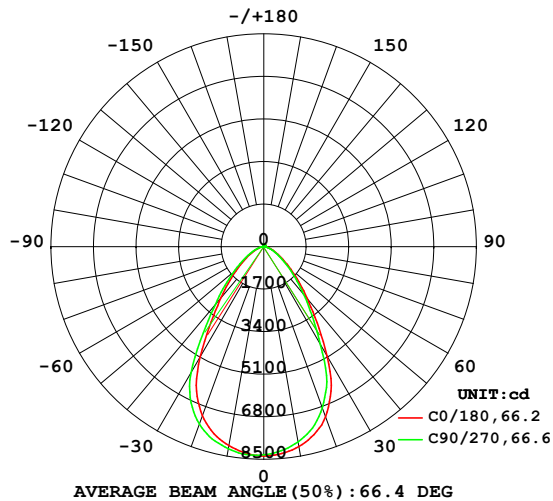


LUMINAIRE PHOTOMETRIC TEST REPORT

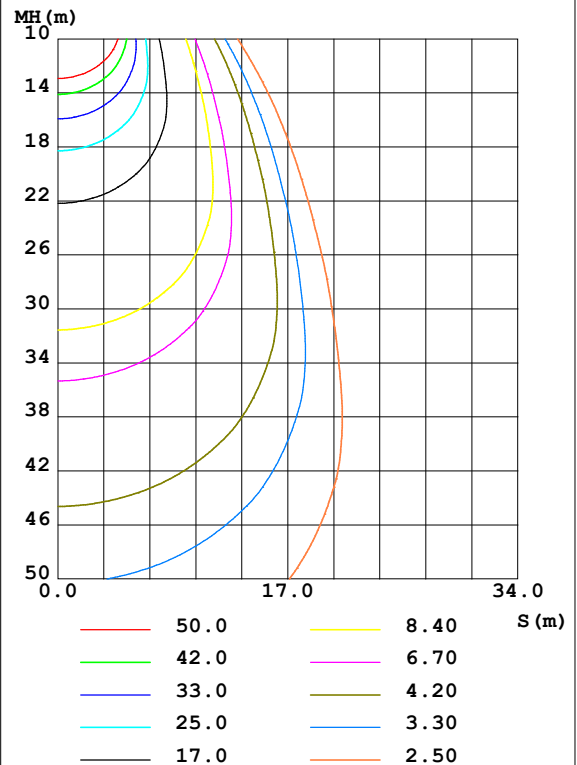
Test:U:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 189.61 lm/W			
MODEL		I _{max} (cd)	8364	S/MH (C0/180)	0.98
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	1.03
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	11677	η UP, DN (C0-180)	1.2, 47.1
NOMINAL FLUX (lm)	11676.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 50.6
LAMPS INSIDE	1	η up (%)	2.4	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.6	CIBSE SHR MAX	1.00

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	8111	7919	8067	8197					0- 10	783.3	783.3	6.71,6.71
20	7226	6842	7178	7539					10- 20	2171	2954	25.3,25.3
30	5076	4542	5102	5826					20- 30	2892	5846	50.1,50.1
40	2706	2483	2646	3022					30- 40	2362	8208	70.3,70.3
50	1422	1292	1381	1572					40- 50	1540	9748	83.5,83.5
60	699.9	635.7	666.7	763.3					50- 60	902.2	10650	91.2,91.2
70	324.7	285.4	302.5	350.7					60- 70	481.6	11132	95.3,95.3
80	114.4	86.04	106.6	127.1					70- 80	214.8	11346	97.2,97.2
90	32.30	31.33	22.47	21.78					80- 90	54.65	11401	97.6,97.6
100	28.05	27.75	26.39	25.46					90-100	29.11	11430	97.9,97.9
110	28.30	28.97	32.19	30.90					100-110	29.83	11460	98.1,98.1
120	33.55	35.36	39.99	38.30					110-120	32.86	11493	98.4,98.4
130	43.01	45.46	49.66	47.55					120-130	37.08	11530	98.7,98.7
140	54.42	57.32	60.58	58.13					130-140	40.08	11570	99.1,99.1
150	66.93	70.05	72.01	69.29					140-150	39.77	11610	99.4,99.4
160	78.96	81.58	81.62	79.26					150-160	34.64	11644	99.7,99.7
170	88.32	89.73	88.69	87.24					160-170	23.89	11668	99.9,99.9
180	92.26	92.13	92.54	91.88					170-180	8.608	11677	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9068.2 lm

%lum = 77.7%

%lamp = 77.7%

Conical surface Flux(120deg): 10650 lm

%lum = 91.2%

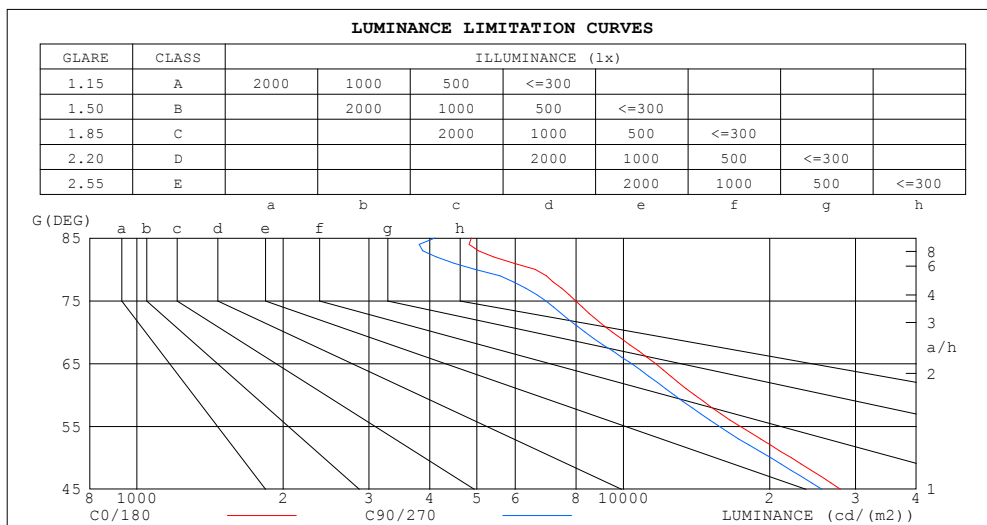
%lamp = 91.2%

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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4872	4102
80	6585	4955
75	7968	6928
70	9493	8345
65	11645	10393
60	13999	12715
55	17369	15752
50	22122	20093
45	27939	25603

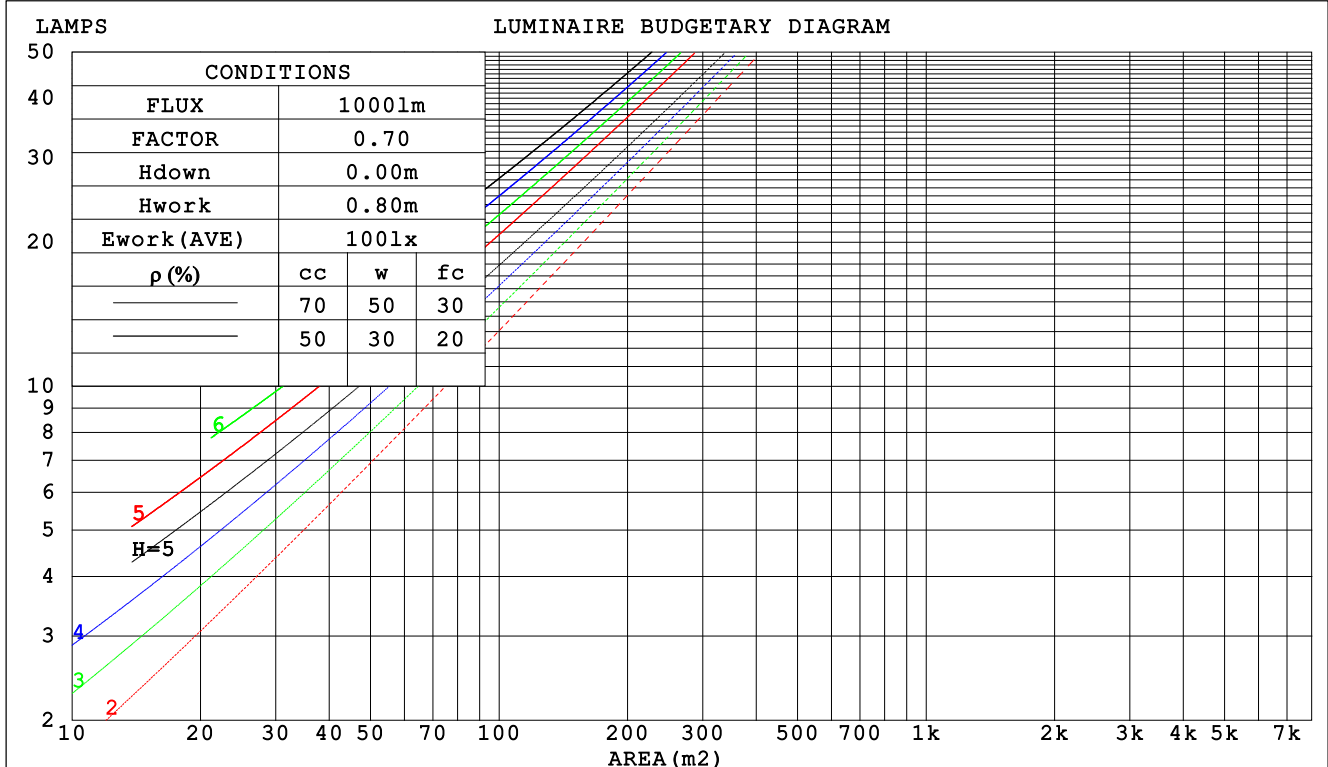
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 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	.97	.95	.93	.93	.91	.90	.88
2.0	.98	.93	.88	.96	.91	.87	.92	.88	.85	.89	.85	.83	.85	.83	.81	.79
3.0	.89	.83	.78	.87	.82	.77	.84	.79	.75	.81	.77	.74	.79	.75	.72	.70
4.0	.81	.74	.69	.80	.74	.69	.77	.72	.68	.75	.70	.66	.73	.69	.65	.64
5.0	.75	.68	.62	.74	.67	.62	.71	.66	.61	.69	.64	.60	.67	.63	.59	.58
6.0	.69	.62	.56	.68	.61	.56	.66	.60	.56	.64	.59	.55	.63	.58	.54	.53
7.0	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.54	.50	.58	.54	.50	.48
8.0	.59	.52	.47	.59	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.44
9.0	.55	.48	.44	.55	.48	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41
10.0	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.48	.43	.40	.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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 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	.225	.128	.041	.218	.124	.039	.204	.117	.037	.191	.110	.035	.179	.104	.033	
2.0	.216	.119	.036	.210	.116	.036	.198	.110	.034	.186	.104	.033	.176	.099	.031	
3.0	.205	.109	.033	.199	.107	.032	.188	.102	.031	.178	.098	.030	.169	.094	.029	
4.0	.193	.100	.029	.188	.098	.029	.179	.095	.028	.170	.091	.028	.162	.088	.027	
5.0	.182	.093	.027	.178	.091	.027	.169	.088	.026	.161	.085	.025	.154	.082	.025	
6.0	.172	.086	.025	.168	.085	.024	.160	.082	.024	.153	.080	.023	.147	.077	.023	
7.0	.162	.080	.023	.159	.079	.023	.152	.077	.022	.146	.075	.022	.140	.073	.021	
8.0	.154	.075	.021	.151	.074	.021	.145	.072	.021	.139	.070	.020	.134	.069	.020	
9.0	.146	.071	.020	.143	.070	.020	.138	.068	.019	.133	.066	.019	.128	.065	.019	
10.0	.139	.067	.018	.136	.066	.018	.131	.064	.018	.127	.063	.018	.122	.061	.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	.208	.208	.208	.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	.180	.151	.125	.155	.130	.108	.106	.090	.076	.061	.052	.044	.020	.017	.014	
3.0	.170	.132	.102	.146	.114	.088	.100	.079	.062	.058	.046	.037	.019	.015	.012	
4.0	.161	.118	.085	.139	.102	.074	.095	.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	.098	.064	.126	.085	.055	.087	.060	.039	.050	.035	.023	.016	.011	.008	
7.0	.140	.091	.057	.121	.079	.049	.083	.055	.035	.048	.033	.021	.016	.011	.007	
8.0	.134	.085	.051	.116	.074	.045	.080	.052	.032	.047	.031	.019	.015	.010	.006	
9.0	.129	.080	.047	.111	.070	.041	.077	.049	.029	.045	.029	.017	.015	.009	.006	
10.0	.124	.076	.044	.107	.066	.038	.074	.046	.027	.043	.027	.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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 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	12.5	13.7	12.8	13.9	14.2	12.2	13.3	12.4	13.5	13.8
3H	13.0	14.1	13.3	14.3	14.6	12.6	13.6	12.9	13.9	14.2
4H	13.2	14.2	13.5	14.4	14.7	12.7	13.7	13.0	14.0	14.3
6H	13.2	14.2	13.6	14.5	14.8	12.8	13.7	13.1	14.0	14.3
8H	13.2	14.2	13.6	14.5	14.8	12.7	13.6	13.1	14.0	14.3
12H	13.2	14.1	13.6	14.4	14.7	12.7	13.6	13.1	13.9	14.2
4H 2H	12.7	13.7	13.0	13.9	14.2	12.3	13.3	12.7	13.6	13.9
3H	13.3	14.1	13.6	14.5	14.8	12.9	13.8	13.3	14.1	14.4
4H	13.5	14.3	13.9	14.6	15.0	13.1	13.9	13.5	14.2	14.6
6H	13.7	14.4	14.1	14.7	15.1	13.2	13.9	13.6	14.3	14.7
8H	13.7	14.3	14.1	14.7	15.2	13.2	13.9	13.7	14.3	14.7
12H	13.7	14.3	14.1	14.7	15.1	13.2	13.8	13.7	14.2	14.7
8H 4H	13.5	14.2	13.9	14.6	15.0	13.1	13.8	13.6	14.2	14.6
6H	13.7	14.3	14.2	14.7	15.2	13.3	13.8	13.8	14.3	14.7
8H	13.8	14.3	14.3	14.7	15.2	13.3	13.8	13.8	14.3	14.8
12H	13.8	14.2	14.3	14.7	15.2	13.4	13.7	13.9	14.2	14.8
12H 4H	13.5	14.1	13.9	14.5	14.9	13.1	13.7	13.6	14.1	14.6
6H	13.7	14.2	14.2	14.6	15.1	13.3	13.8	13.8	14.2	14.7
8H	13.8	14.2	14.3	14.7	15.2	13.3	13.7	13.8	14.2	14.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.0					+ 0.8 / - 1.1				
1.5H	+ 0.9 / - 0.7					+ 0.8 / - 0.7				
2.0H	+ 1.6 / - 1.2					+ 1.6 / - 1.2				

CIE Pub.117, 11677 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.5$)
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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

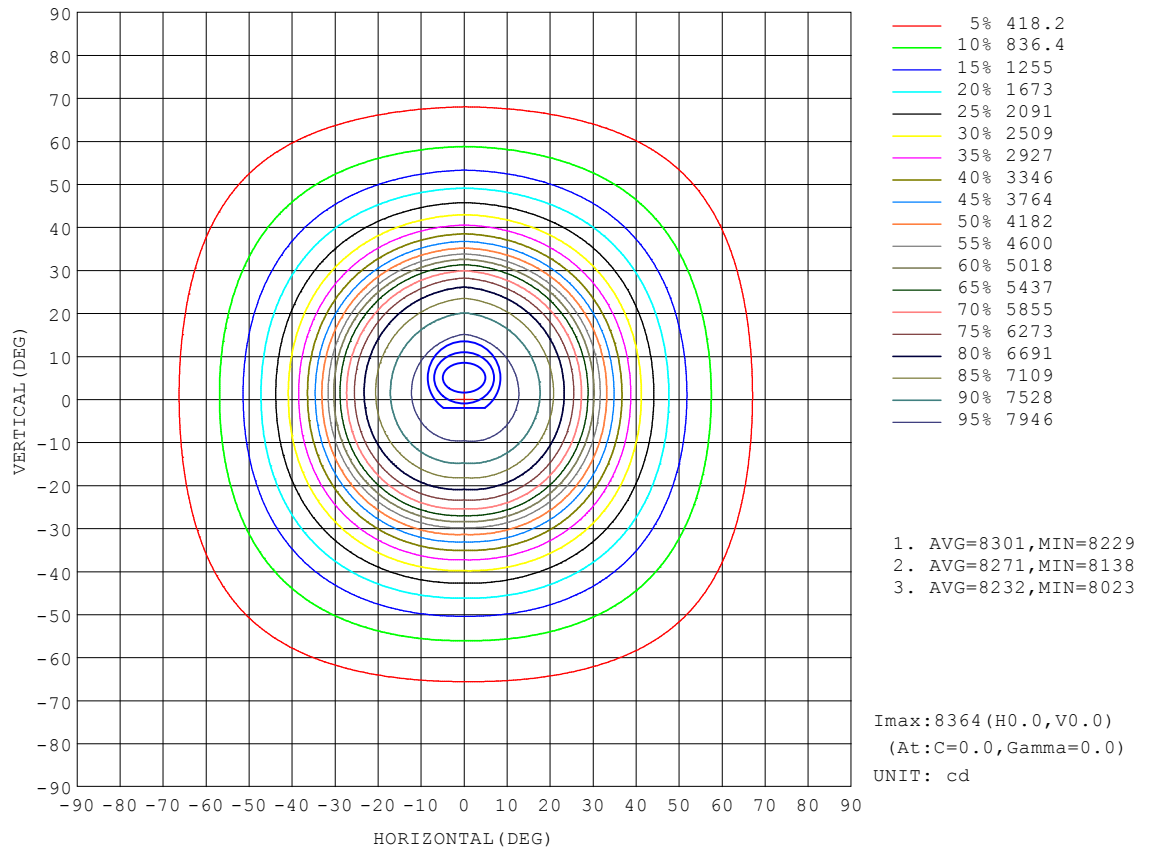
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	59	54
0.80	82	73	68	81	73	68	79	72	67	62
1.00	89	81	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	86	94	88	84	78
2.00	102	97	92	101	95	91	97	93	89	83
2.50	105	100	95	103	98	94	99	95	92	85
3.00	107	103	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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

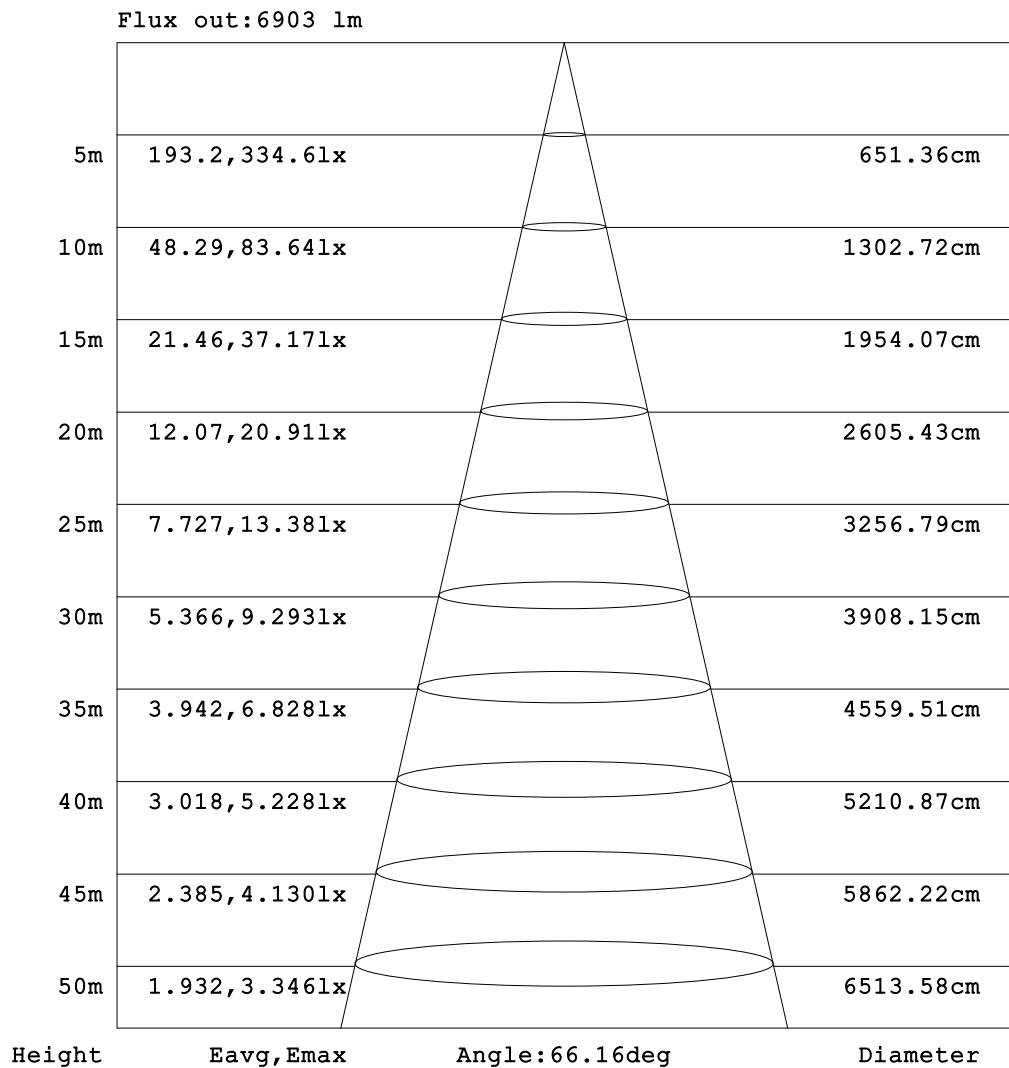


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-03-09

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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



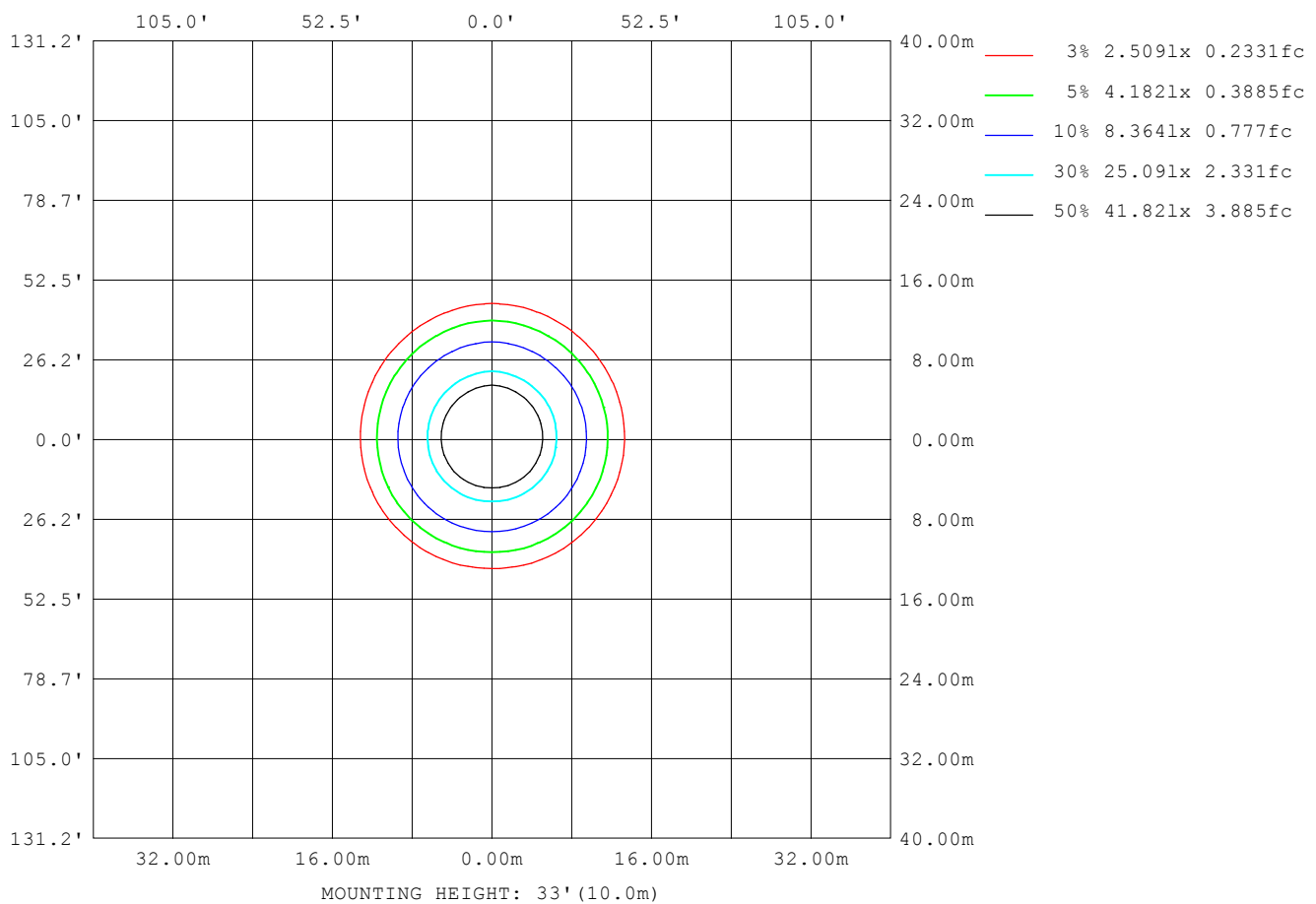
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 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
 γ 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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

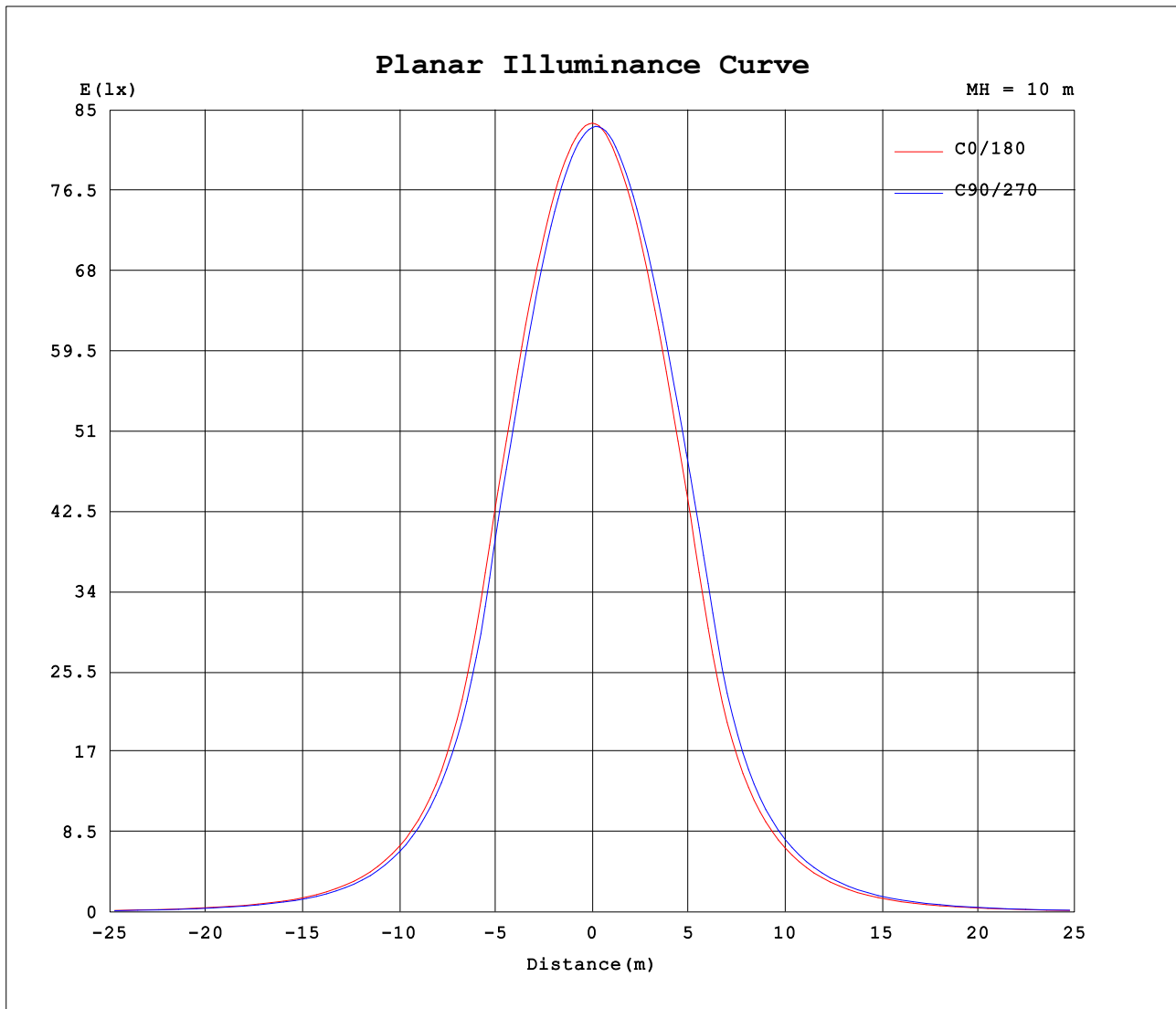
AvgL	cd/m2
L_0~180 (65) av	11293
L_0~180 (75) av	7686
L_0~180 (85) av	4363
L_90~270 (65) av	11445
L_90~270 (75) av	7738
L_90~270 (85) av	4752
L_45 (65) av	11366
L_45 (75) av	7701
L_45 (85) av	4575

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:218.94V I:0.2879A P:61.584W PF:0.9771 Freq:49.99Hz Lamp Flux:11676.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	8364	8318	8364	8318															
5	8295	8181	8281	8332															
10	8111	7919	8067	8197															
15	7768	7508	7730	7954															
20	7226	6842	7178	7539															
25	6363	5965	6362	6883															
30	5076	4542	5102	5826															
35	3727	3365	3661	4222															
40	2706	2483	2646	3022															
45	1976	1810	1934	2192															
50	1422	1292	1381	1572															
55	996	903	959	1105															
60	700	636	667	763															
65	492	439	462	528															
70	325	285	303	351															
75	206	179	192	221															
80	114	86.0	107	127															
85	42.5	35.8	33.6	47.1															
90	32.3	31.3	22.5	21.8															
95	29.6	29.0	24.2	23.4															
100	28.0	27.7	26.4	25.5															
105	27.6	27.8	29.0	27.9															
110	28.3	29.0	32.2	30.9															
115	30.2	31.5	35.9	34.4															
120	33.5	35.4	40.0	38.3															
125	37.9	40.1	44.6	42.7															
130	43.0	45.5	49.7	47.5															
135	48.5	51.2	55.0	52.7															
140	54.4	57.3	60.6	58.1															
145	60.6	63.7	66.3	63.6															
150	66.9	70.0	72.0	69.3															
155	73.2	76.2	77.2	74.6															
160	79.0	81.6	81.6	79.3															
165	84.1	86.3	85.5	83.7															
170	88.3	89.7	88.7	87.2															
175	91.3	91.9	91.1	90.0															
180	92.3	92.1	92.5	91.9															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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