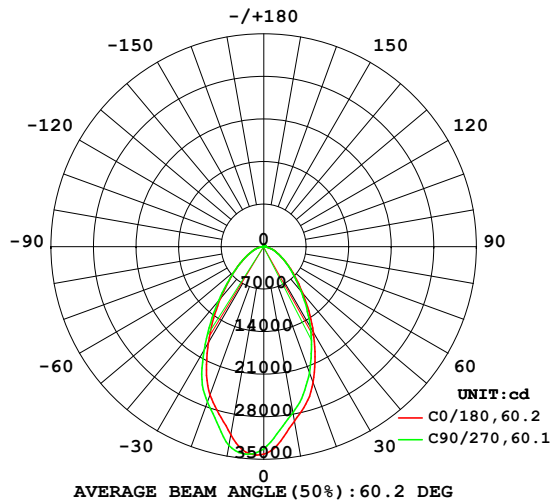


LUMINAIRE PHOTOMETRIC TEST REPORT

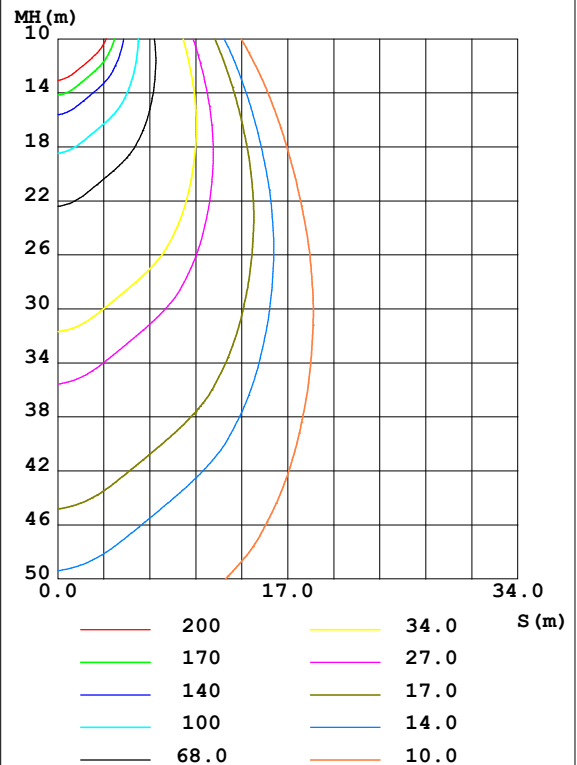
Test:U:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.74 lm/W			
MODEL		I _{max} (cd)	34298	S/MH (C0/180)	0.92
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH (C90/270)	0.99
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	44237	η UP,DN(C0-180)	1.2,45.6
NOMINAL FLUX(lm)	44237.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,52.1
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down (%)	97.7	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: 2024-12-14

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	2916	2776	3139	3322					0- 10	3043	3043	6.88, 6.88
20	2374	2203	2593	2718					10- 20	7736	10779	24.4, 24.4
30	1632	1537	1825	1966					20- 30	9709	20489	46.3, 46.3
40	996.1	952.3	1106	1153					30- 40	8595	29084	65.7, 65.7
50	585.3	568.1	628.9	635.3					40- 50	6200	35284	79.8, 79.8
60	327.8	323.6	345.2	341.4					50- 60	4090	39373	89, 89
70	173.7	169.5	179.6	174.7					60- 70	2447	41821	94.5, 94.5
80	47.17	44.52	54.60	54.38					70- 80	1153	42974	97.1, 97.1
90	13.18	12.95	8.582	8.407					80- 90	243.4	43218	97.7, 97.7
100	11.48	11.35	9.549	9.371					90-100	114.7	43332	98, 98
110	11.70	11.69	11.41	11.15					100-110	114.7	43447	98.2, 98.2
120	13.64	13.83	13.94	13.54					110-120	124.1	43571	98.5, 98.5
130	16.96	17.44	17.13	16.58					120-130	137.0	43708	98.8, 98.8
140	21.08	21.78	20.88	20.29					130-140	146.6	43855	99.1, 99.1
150	25.36	26.10	24.54	24.11					140-150	144.3	43999	99.5, 99.5
160	28.90	29.64	27.84	27.68					150-160	123.7	44123	99.7, 99.7
170	31.32	32.02	30.47	30.59					160-170	84.38	44207	99.9, 99.9
180	31.81	32.51	32.08	32.30					170-180	30.16	44237	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 32477 lm

%lum = 73.4%

%lamp = 73.4%

Conical surface Flux(120deg): 39373 lm

%lum = 89.0%

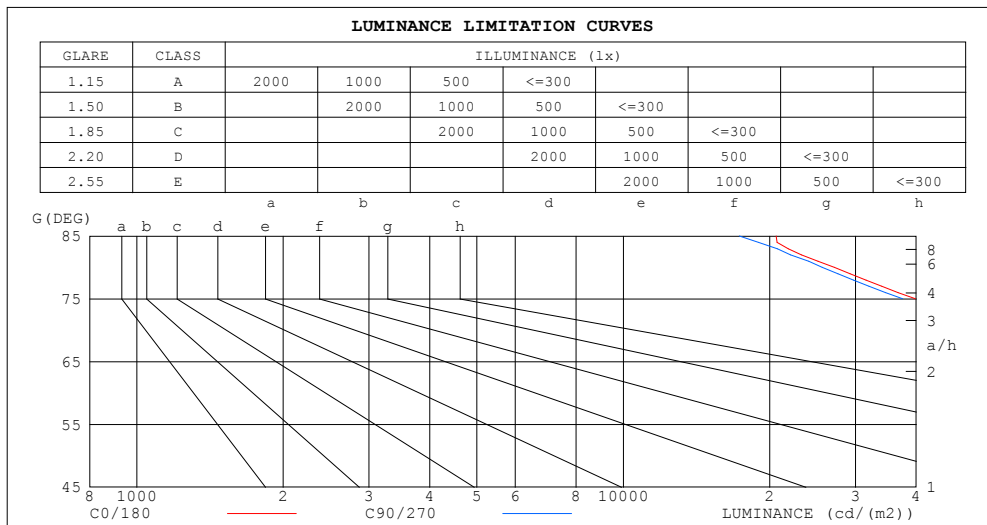
%lamp = 89.0%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



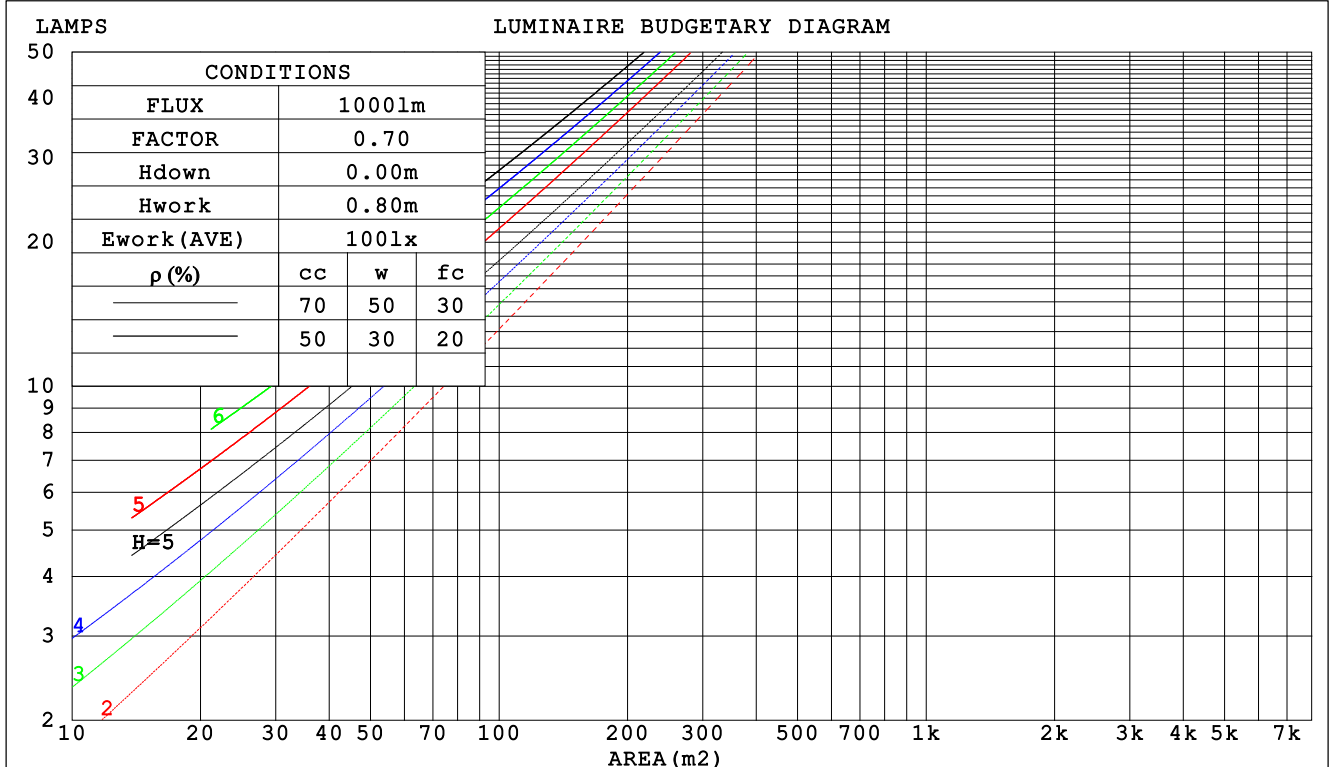
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.96	.96	.94	.92	.92	.91	.89	.87
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.73	.80	.76	.72	.77	.74	.71	.69
4.0	.80	.73	.67	.78	.72	.67	.76	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.73	.66	.60	.72	.65	.60	.70	.63	.59	.67	.62	.58	.66	.61	.57	.55
6.0	.67	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.61	.56	.52	.50
7.0	.62	.55	.49	.61	.54	.49	.59	.53	.49	.58	.52	.48	.57	.52	.48	.46
8.0	.57	.50	.45	.57	.50	.45	.55	.49	.45	.54	.48	.44	.53	.48	.44	.42
9.0	.54	.46	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.49	.44	.41	.39
10.0	.50	.43	.39	.50	.43	.38	.48	.42	.38	.47	.42	.38	.46	.41	.38	.36



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 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	.237	.135	.043	.229	.131	.042	.215	.123	.039	.202	.117	.037	.190	.110	.036	
2.0	.227	.124	.038	.221	.121	.037	.208	.116	.036	.197	.110	.035	.186	.105	.033	
3.0	.214	.114	.034	.208	.112	.034	.198	.107	.033	.188	.103	.032	.178	.099	.031	
4.0	.201	.105	.031	.196	.103	.030	.187	.099	.030	.178	.095	.029	.169	.092	.028	
5.0	.189	.096	.028	.184	.095	.028	.176	.092	.027	.168	.089	.026	.161	.086	.026	
6.0	.178	.089	.025	.174	.088	.025	.166	.085	.025	.159	.083	.024	.152	.080	.024	
7.0	.167	.083	.023	.164	.082	.023	.157	.079	.023	.151	.077	.022	.145	.075	.022	
8.0	.158	.077	.022	.155	.076	.022	.149	.074	.021	.143	.073	.021	.138	.071	.021	
9.0	.150	.072	.020	.147	.072	.020	.141	.070	.020	.136	.068	.020	.131	.067	.019	
10.0	.142	.068	.019	.139	.067	.019	.134	.066	.019	.130	.064	.018	.125	.063	.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	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.193	.174	.158	.165	.150	.136	.113	.103	.094	.065	.060	.055	.021	.019	.018	
2.0	.181	.150	.124	.155	.129	.107	.107	.089	.075	.061	.052	.044	.020	.017	.014	
3.0	.172	.132	.100	.147	.114	.087	.101	.079	.061	.058	.046	.036	.019	.015	.012	
4.0	.163	.118	.083	.140	.102	.073	.096	.071	.051	.056	.042	.030	.018	.014	.010	
5.0	.155	.107	.071	.133	.093	.062	.092	.065	.044	.053	.038	.026	.017	.012	.009	
6.0	.148	.098	.062	.127	.085	.054	.088	.060	.038	.051	.035	.023	.016	.011	.008	
7.0	.142	.091	.056	.122	.079	.048	.084	.055	.034	.049	.033	.020	.016	.011	.007	
8.0	.136	.085	.050	.117	.074	.044	.081	.052	.031	.047	.031	.019	.015	.010	.006	
9.0	.130	.080	.046	.112	.070	.040	.078	.049	.029	.045	.029	.017	.015	.009	.006	
10.0	.125	.076	.043	.108	.066	.038	.075	.046	.027	.044	.027	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 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	13.2	14.4	13.5	14.6	14.9	13.1	14.3	13.4	14.5	14.8
3H	14.0	15.1	14.3	15.4	15.6	13.9	15.0	14.2	15.3	15.5
4H	14.2	15.3	14.6	15.6	15.9	14.1	15.2	14.5	15.5	15.7
6H	14.3	15.3	14.7	15.6	15.9	14.2	15.2	14.5	15.5	15.8
8H	14.3	15.3	14.7	15.6	15.9	14.2	15.1	14.6	15.5	15.8
12H	14.3	15.2	14.7	15.5	15.9	14.2	15.1	14.5	15.4	15.7
4H 2H	13.5	14.6	13.8	14.8	15.1	13.4	14.5	13.7	14.7	15.0
3H	14.5	15.4	14.8	15.7	16.0	14.4	15.3	14.7	15.6	15.9
4H	14.8	15.6	15.2	16.0	16.3	14.7	15.5	15.1	15.9	16.2
6H	14.9	15.7	15.4	16.1	16.5	14.8	15.5	15.2	15.9	16.3
8H	15.0	15.6	15.4	16.0	16.5	14.8	15.5	15.3	15.9	16.3
12H	15.0	15.6	15.4	16.0	16.4	14.8	15.4	15.3	15.9	16.3
8H 4H	14.9	15.5	15.3	15.9	16.4	14.8	15.4	15.2	15.8	16.3
6H	15.1	15.6	15.5	16.1	16.5	14.9	15.5	15.4	15.9	16.4
8H	15.1	15.6	15.6	16.1	16.6	15.0	15.5	15.5	15.9	16.4
12H	15.1	15.5	15.6	16.0	16.6	15.0	15.4	15.5	15.9	16.4
12H 4H	14.8	15.4	15.3	15.9	16.3	14.7	15.3	15.2	15.8	16.2
6H	15.0	15.5	15.5	16.0	16.5	14.9	15.4	15.4	15.9	16.4
8H	15.1	15.5	15.6	16.0	16.5	15.0	15.4	15.5	15.9	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.5 / - 0.7				
1.5H	+ 0.4 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 1.0 / - 0.8					+ 0.9 / - 0.8				

CIE Pub.117, 44237 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

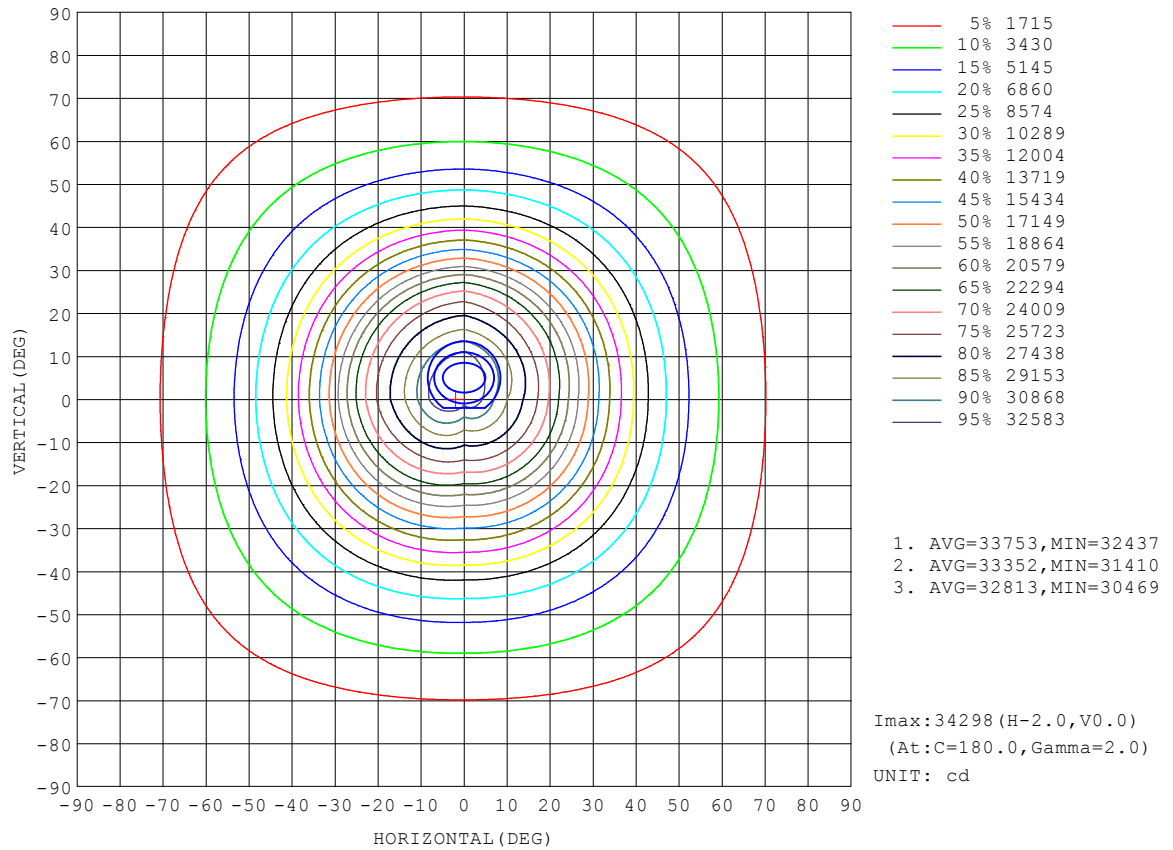
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	69	61	55	68	60	55	50
0.80	79	70	65	78	70	64	77	69	64	58
1.00	86	78	72	85	77	72	83	78	71	65
1.25	92	84	79	91	83	78	88	82	77	71
1.50	96	89	84	95	88	83	92	86	82	75
2.00	101	95	90	99	94	89	96	91	87	80
2.50	104	98	94	102	97	93	98	94	90	83
3.00	106	101	97	104	100	96	100	97	93	85
4.00	109	105	102	107	103	100	103	100	97	89
5.00	111	108	105	109	106	103	104	102	99	90
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:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

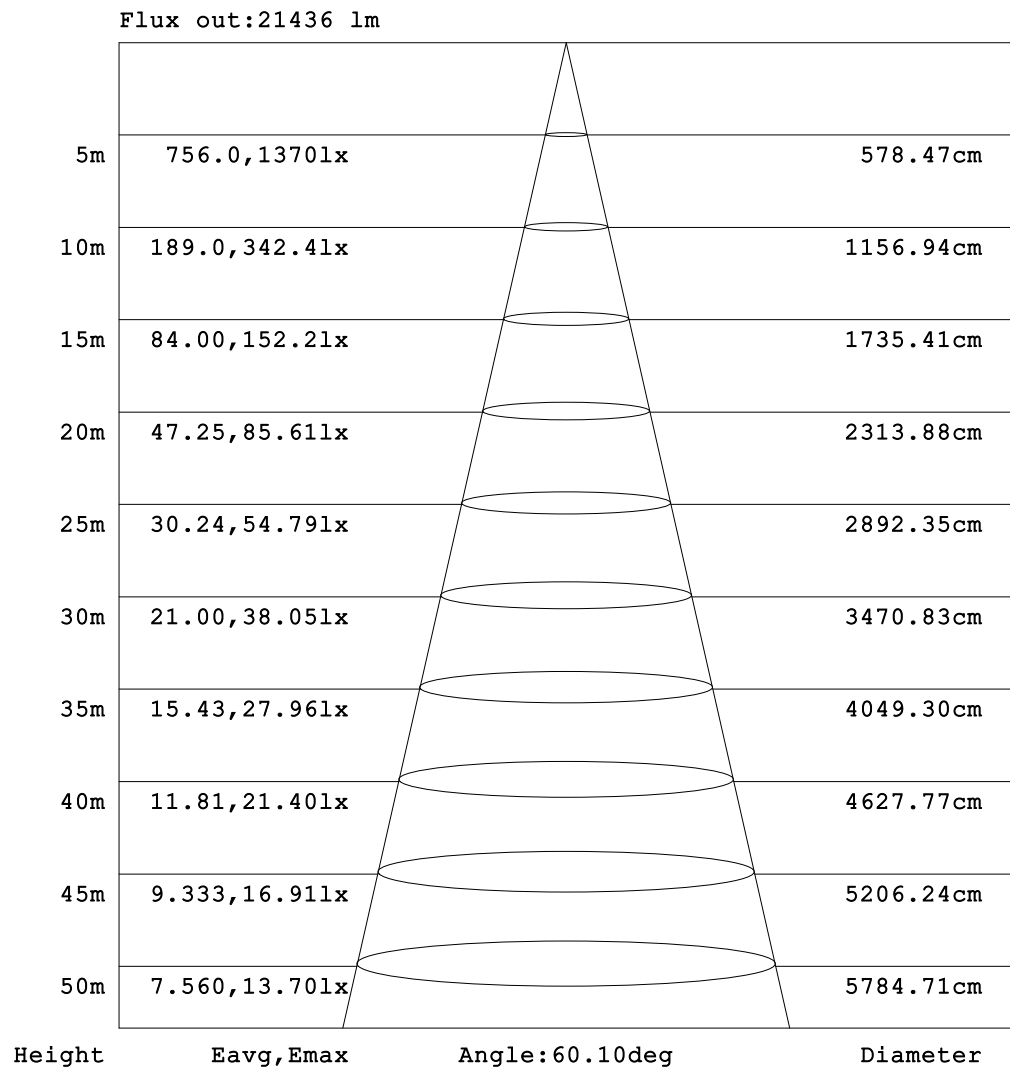


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



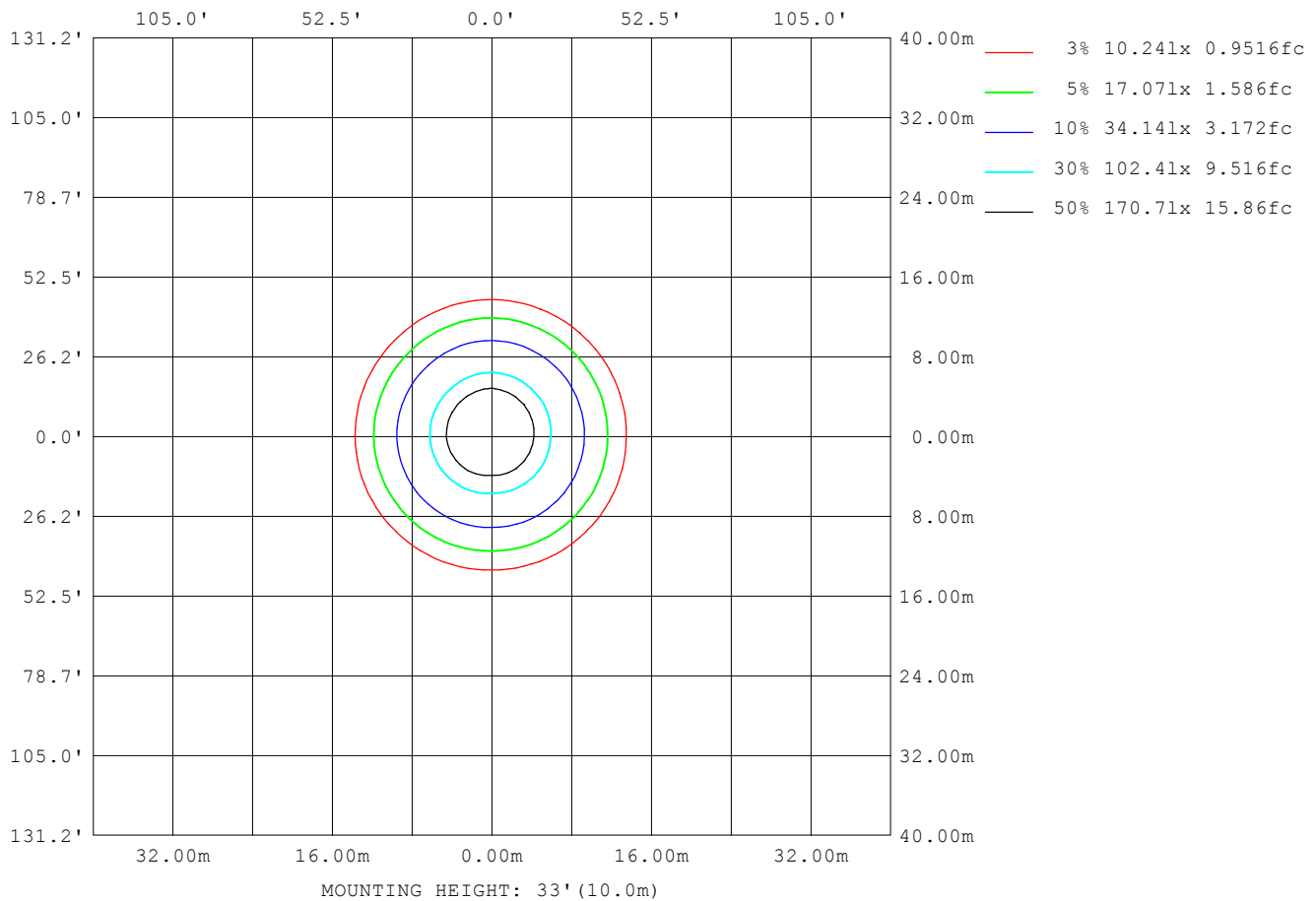
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 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:2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

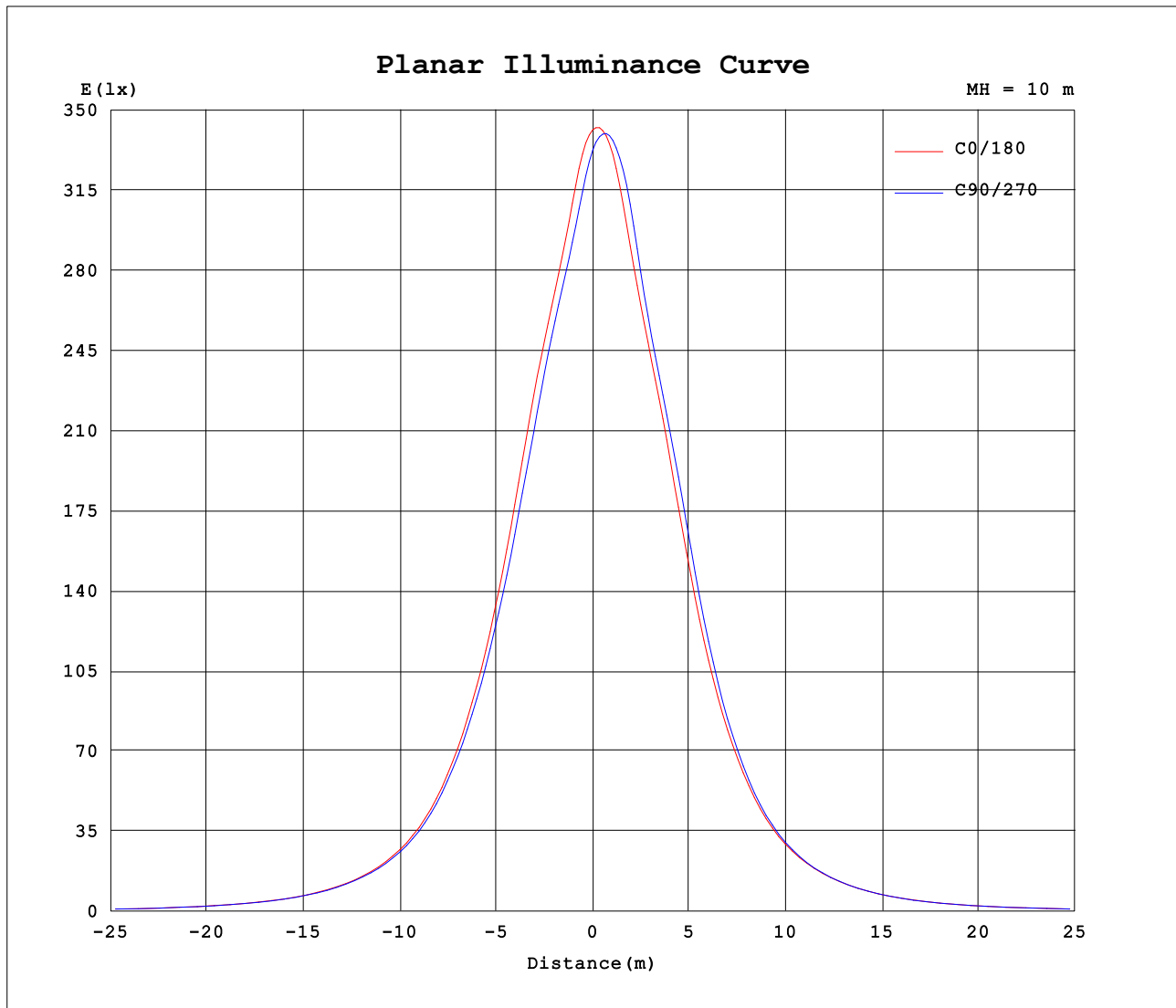
AvgL	cd/m2
L_0~180 (65) av	58286
L_0~180 (75) av	42809
L_0~180 (85) av	21240
L_90~270 (65) av	57207
L_90~270 (75) av	40871
L_90~270 (85) av	19617
L_45 (65) av	57686
L_45 (75) av	41783
L_45 (85) av	20265

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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: 2024-12-14

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:218.63V I:1.3826A P:297.41W PF:0.9839 Freq:58.98Hz Lamp Flux:44237.2x1 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	3414	3327	3414	3327														
5	3210	3030	3392	3428														
10	2916	2776	3139	3322														
15	2682	2520	2851	2991														
20	2374	2203	2593	2718														
25	1998	1861	2237	2416														
30	1632	1537	1825	1966														
35	1297	1232	1443	1531														
40	996	952	1106	1153														
45	764	734	833	854														
50	585	568	629	635														
55	440	433	470	470														
60	328	324	345	341														
65	241	238	251	245														
70	174	169	180	175														
75	103	97.0	118	115														
80	47.2	44.5	54.6	54.4														
85	18.0	15.1	19.1	19.1														
90	13.2	13.0	8.58	8.41														
95	12.1	11.9	8.97	8.81														
100	11.5	11.3	9.55	9.37														
105	11.3	11.3	10.4	10.2														
110	11.7	11.7	11.4	11.1														
115	12.5	12.5	12.6	12.3														
120	13.6	13.8	13.9	13.5														
125	15.2	15.5	15.4	15.0														
130	17.0	17.4	17.1	16.6														
135	19.0	19.6	19.0	18.4														
140	21.1	21.8	20.9	20.3														
145	23.3	24.0	22.8	22.2														
150	25.4	26.1	24.5	24.1														
155	27.2	28.0	26.3	26.0														
160	28.9	29.6	27.8	27.7														
165	30.3	31.0	29.2	29.2														
170	31.3	32.0	30.5	30.6														
175	31.8	32.5	31.5	31.7														
180	31.8	32.5	32.1	32.3														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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: