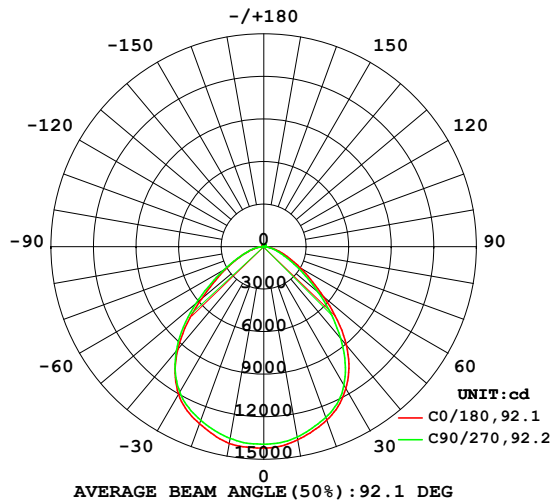


LUMINAIRE PHOTOMETRIC TEST REPORT

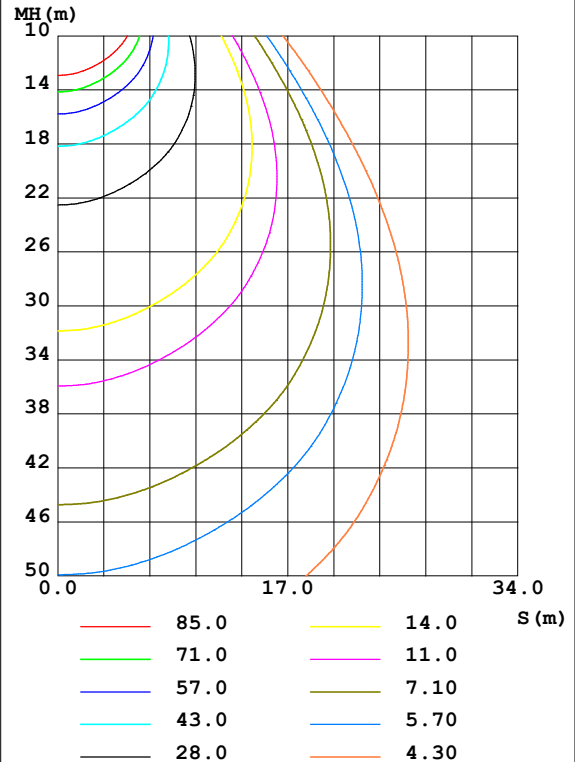
Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.07 lm/W			
MODEL		I _{max} (cd)	14207	S/MH (C0/180)	1.25
NOMINAL POWER(W)	240W	LOR(%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	30678	η UP,DN(C0-180)	1.2,47.1
NOMINAL FLUX(lm)	30677.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.7
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down (%)	97.7	CIBSE SHR MAX	1.30

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:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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	1383	1363	1409	1372					0- 10	1332	1332	4.34, 4.34
20	1301	1281	1328	1303					10- 20	3800	5132	16.7, 16.7
30	1157	1129	1203	1185					20- 30	5742	10874	35.4, 35.4
40	906.7	844.3	942.9	959.0					30- 40	6571	17446	56.9, 56.9
50	553.1	502.8	573.5	625.9					40- 50	5702	23148	75.5, 75.5
60	293.5	249.1	300.7	322.1					50- 60	3703	26851	87.5, 87.5
70	138.4	113.8	140.3	144.0					60- 70	2019	28870	94.1, 94.1
80	43.45	32.08	45.84	55.90					70- 80	911.1	29781	97.1, 97.1
90	9.704	9.384	5.665	5.480					80- 90	205.5	29987	97.7, 97.7
100	8.680	8.620	6.613	6.321					90-100	81.59	30068	98, 98
110	8.941	9.051	8.101	7.700					100-110	83.90	30152	98.3, 98.3
120	10.04	10.28	9.991	9.538					110-120	90.90	30243	98.6, 98.6
130	11.67	11.95	12.20	11.61					120-130	97.53	30341	98.9, 98.9
140	13.50	13.81	14.32	13.66					130-140	99.30	30440	99.2, 99.2
150	15.25	15.60	16.25	15.56					140-150	92.45	30532	99.5, 99.5
160	16.97	17.24	17.98	17.25					150-160	76.26	30609	99.8, 99.8
170	18.42	18.58	19.05	18.43					160-170	50.98	30660	99.9, 99.9
180	19.05	19.09	19.34	18.87					170-180	17.99	30678	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 20514 lm

%lum = 66.9%

%lamp = 66.9%

Conical surface Flux(120deg): 26851 lm

%lum = 87.5%

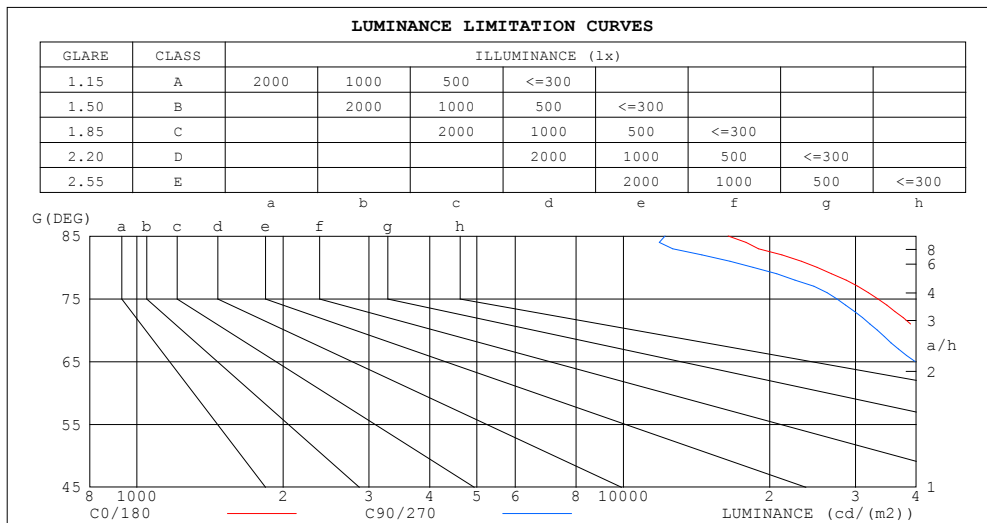
%lamp = 87.5%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16421	12189
80	25023	18472
75	33308	27466
70	40465	33272
65	48705	39812
60	58703	49816
55	70245	62807
50	86046	78226
45	104002	94776

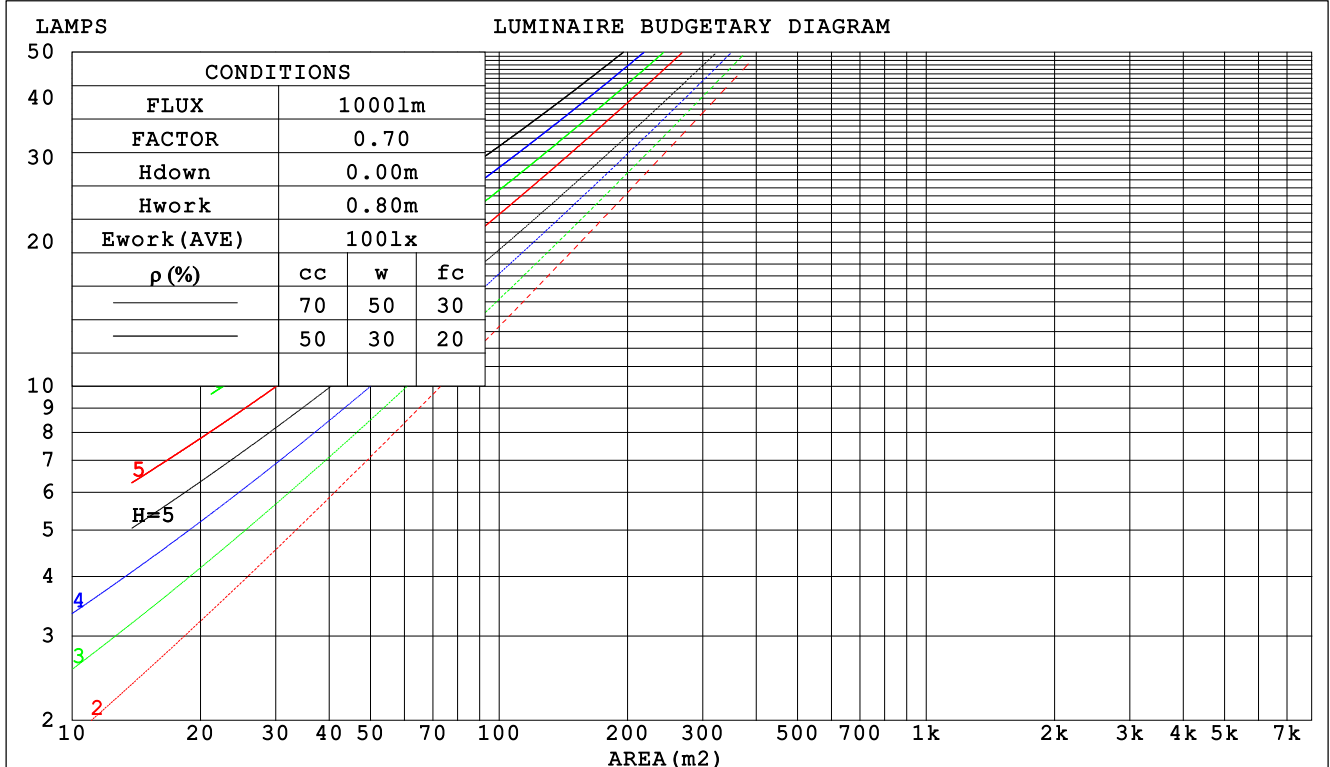
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 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	1.19	1.19	1.19	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.06	1.03	.99	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.84	.81	.85	.82	.78	.82	.79	.76	.74
3.0	.85	.78	.72	.83	.76	.71	.80	.74	.70	.77	.72	.68	.74	.70	.67	.65
4.0	.76	.68	.62	.75	.68	.62	.72	.66	.61	.70	.64	.60	.67	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.65	.59	.54	.63	.57	.53	.61	.56	.52	.50
6.0	.63	.54	.49	.62	.54	.48	.60	.53	.48	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.44	.56	.49	.43	.55	.48	.43	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.41	.36	.48	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 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	.255	.145	.046	.248	.141	.045	.234	.134	.043	.220	.127	.041	.208	.121	.039		
2.0	.246	.135	.041	.239	.132	.041	.227	.126	.039	.215	.121	.038	.205	.116	.037		
3.0	.232	.124	.037	.226	.121	.037	.215	.117	.035	.205	.112	.035	.196	.108	.034		
4.0	.218	.113	.033	.213	.111	.033	.203	.108	.032	.194	.104	.031	.186	.101	.031		
5.0	.205	.104	.030	.200	.103	.030	.191	.100	.029	.183	.097	.029	.176	.094	.028		
6.0	.192	.096	.028	.188	.095	.027	.180	.092	.027	.173	.090	.026	.166	.088	.026		
7.0	.181	.089	.025	.177	.088	.025	.170	.086	.025	.164	.084	.024	.157	.082	.024		
8.0	.170	.083	.023	.167	.082	.023	.161	.080	.023	.155	.078	.023	.149	.077	.022		
9.0	.161	.078	.022	.158	.077	.022	.152	.075	.021	.147	.074	.021	.142	.072	.021		
10.0	.152	.073	.020	.150	.072	.020	.144	.071	.020	.139	.069	.020	.135	.068	.019		

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	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.194	.174	.156	.166	.149	.134	.113	.103	.093	.065	.059	.054	.021	.019	.017	
2.0	.184	.150	.121	.157	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014	
3.0	.175	.132	.097	.150	.113	.084	.103	.079	.059	.059	.046	.035	.019	.015	.011	
4.0	.167	.118	.081	.143	.102	.070	.098	.071	.049	.057	.042	.029	.018	.014	.010	
5.0	.159	.107	.069	.137	.093	.060	.094	.065	.042	.055	.038	.025	.018	.012	.008	
6.0	.153	.099	.060	.131	.085	.052	.091	.060	.037	.053	.035	.022	.017	.012	.007	
7.0	.146	.092	.053	.126	.079	.047	.087	.056	.033	.051	.033	.020	.016	.011	.006	
8.0	.140	.086	.048	.121	.074	.042	.084	.052	.030	.049	.031	.018	.016	.010	.006	
9.0	.135	.081	.045	.116	.070	.039	.081	.049	.028	.047	.029	.016	.015	.010	.005	
10.0	.130	.077	.041	.112	.067	.036	.078	.047	.026	.045	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 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	26.8	28.2	27.1	28.4	28.6	26.4	27.7	26.7	27.9	28.2
3H	27.4	28.6	27.8	28.9	29.2	26.9	28.1	27.2	28.3	28.6
4H	27.6	28.8	28.0	29.1	29.4	27.0	28.2	27.4	28.5	28.8
6H	27.7	28.8	28.1	29.1	29.4	27.1	28.2	27.4	28.5	28.8
8H	27.7	28.8	28.1	29.1	29.4	27.1	28.1	27.4	28.4	28.7
12H	27.7	28.7	28.1	29.0	29.4	27.0	28.0	27.4	28.3	28.7
4H 2H	27.0	28.2	27.3	28.4	28.7	26.6	27.8	27.0	28.1	28.3
3H	27.8	28.8	28.1	29.1	29.4	27.3	28.3	27.6	28.6	28.9
4H	28.1	29.0	28.5	29.3	29.7	27.5	28.4	27.9	28.8	29.1
6H	28.2	29.0	28.7	29.4	29.8	27.6	28.4	28.1	28.8	29.2
8H	28.3	29.0	28.7	29.4	29.8	27.6	28.4	28.1	28.8	29.2
12H	28.2	28.9	28.7	29.3	29.8	27.6	28.3	28.1	28.7	29.1
8H 4H	28.1	28.8	28.5	29.2	29.6	27.6	28.3	28.0	28.7	29.1
6H	28.3	28.9	28.8	29.4	29.8	27.8	28.4	28.2	28.8	29.3
8H	28.4	28.9	28.9	29.4	29.9	27.8	28.3	28.3	28.8	29.3
12H	28.4	28.9	28.9	29.3	29.9	27.8	28.2	28.3	28.7	29.2
12H 4H	28.1	28.7	28.5	29.1	29.6	27.6	28.2	28.0	28.6	29.1
6H	28.3	28.8	28.8	29.3	29.8	27.7	28.3	28.2	28.7	29.2
8H	28.4	28.8	28.9	29.3	29.8	27.8	28.2	28.3	28.7	29.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.7 / - 0.8				
1.5H	+ 0.4 / - 0.4					+ 0.3 / - 0.5				
2.0H	+ 1.3 / - 1.1					+ 1.4 / - 1.2				

CIE Pub.117, 30678 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.9)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

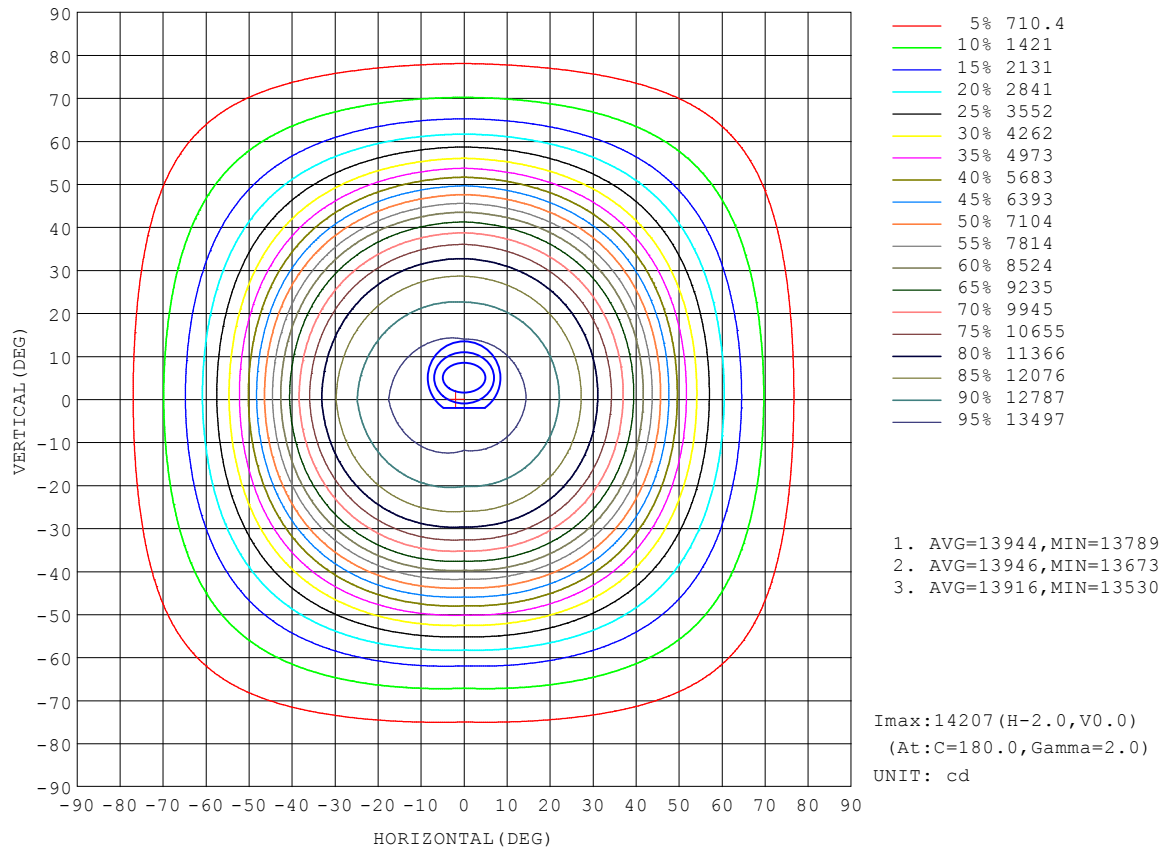
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	64	54	48	62	53	48	42
0.80	74	64	58	73	64	58	72	63	57	51
1.00	82	73	67	81	72	67	79	73	66	60
1.25	89	80	74	88	79	74	85	78	73	66
1.50	93	85	79	92	84	79	89	82	78	71
2.00	99	92	87	97	91	86	94	89	84	77
2.50	102	96	91	100	94	90	96	92	88	80
3.00	105	99	95	103	98	94	99	95	91	83
4.00	108	104	100	106	102	98	101	98	95	86
5.00	110	106	103	108	104	101	103	100	98	88
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:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

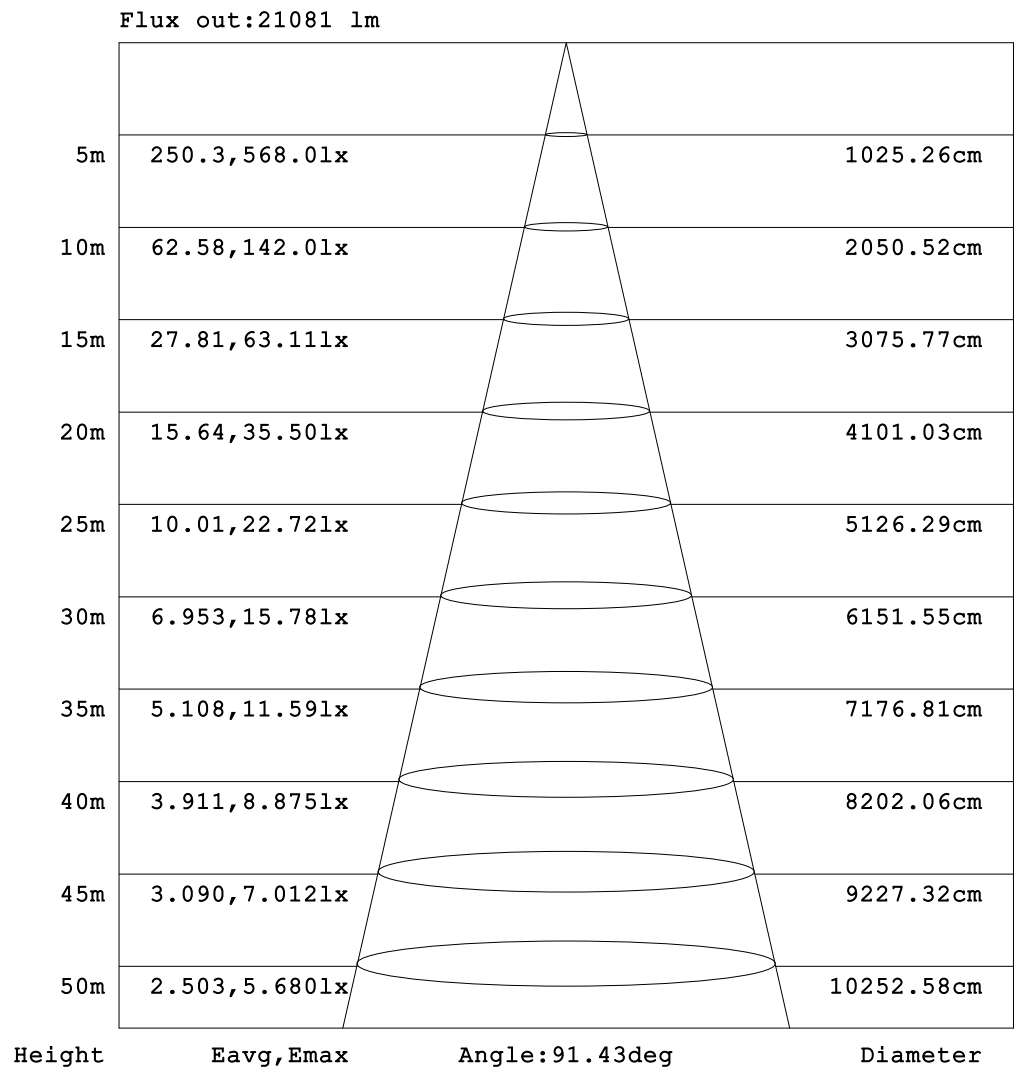


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



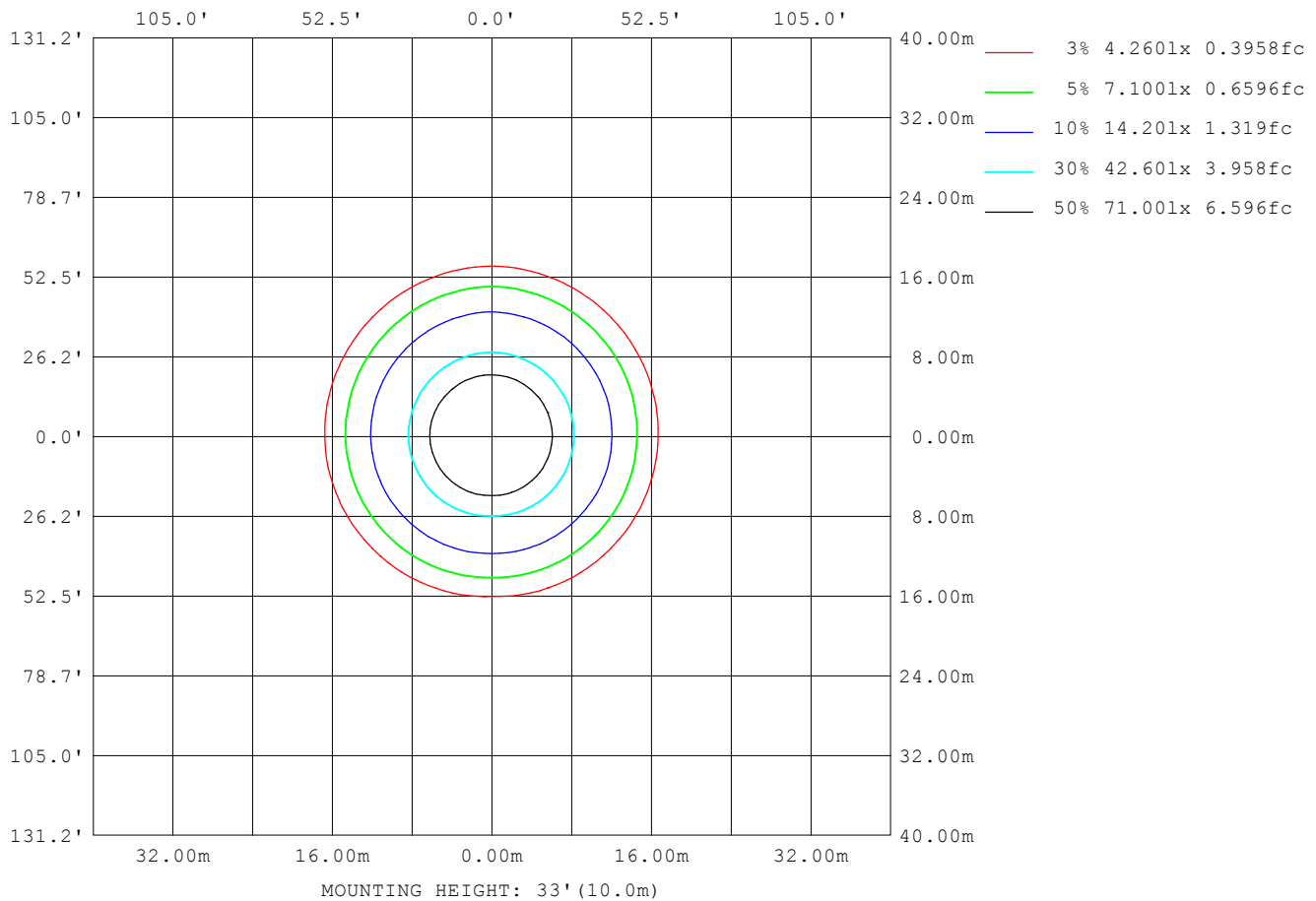
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 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:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

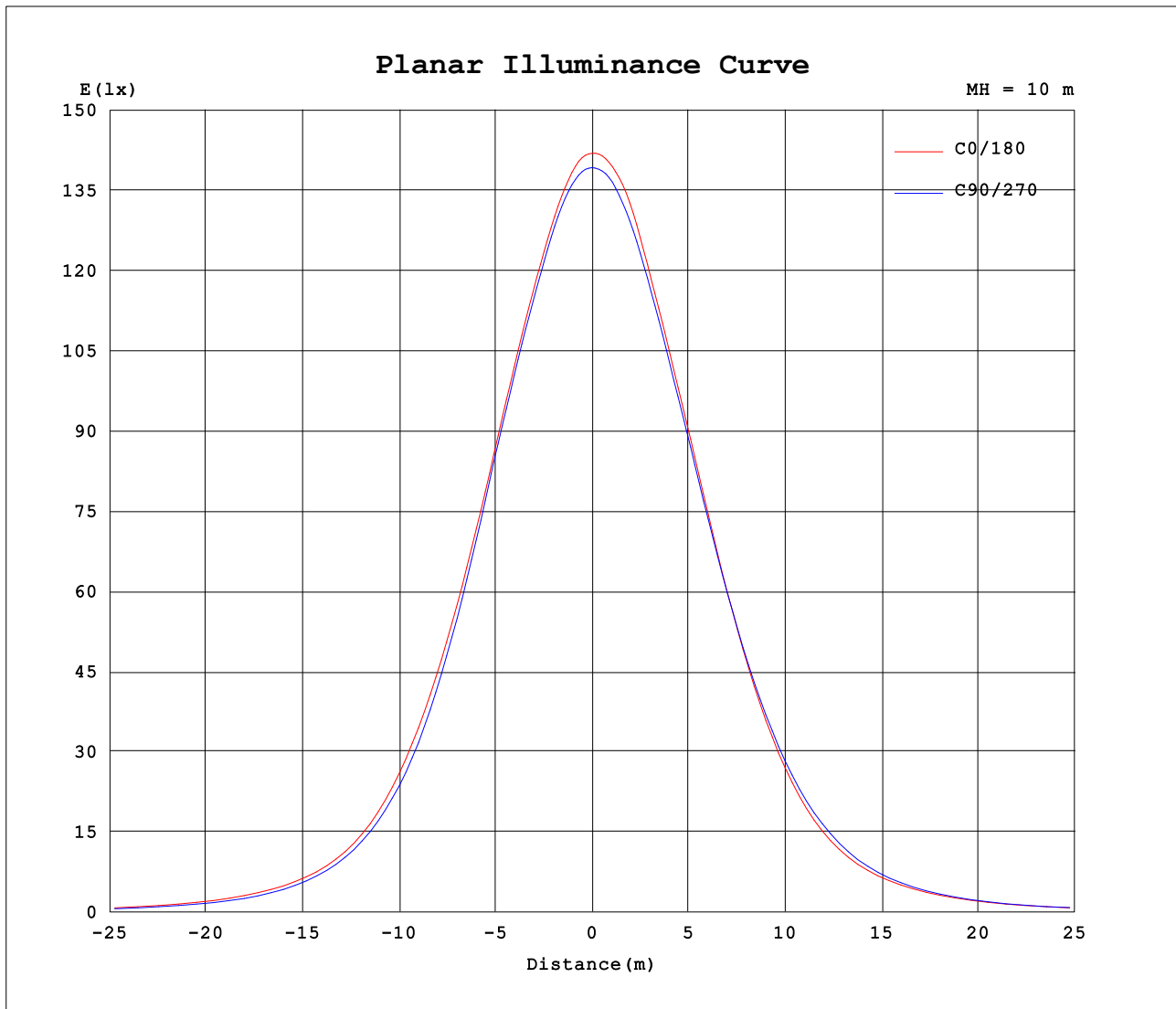
AvgL	cd/m2
L_0~180 (65) av	49211
L_0~180 (75) av	33714
L_0~180 (85) av	15328
L_90~270 (65) av	45515
L_90~270 (75) av	32106
L_90~270 (85) av	18457
L_45 (65) av	46933
L_45 (75) av	32735
L_45 (85) av	17215

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.18V I:1.1121A P:235.86W PF:0.9721 Freq:49.99Hz Lamp Flux:30677.5x1 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	1420	1393	1420	1393														
5	1411	1386	1419	1390														
10	1383	1363	1409	1372														
15	1345	1325	1373	1342														
20	1301	1281	1328	1303														
25	1243	1223	1277	1254														
30	1157	1129	1203	1185														
35	1048	1002	1090	1089														
40	907	844	943	959														
45	735	670	765	801														
50	553	503	574	626														
55	403	360	417	456														
60	294	249	301	322														
65	206	168	210	216														
70	138	114	140	144														
75	86.2	71.1	88.3	95.1														
80	43.5	32.1	45.8	55.9														
85	14.3	10.6	12.4	21.5														
90	9.70	9.38	5.66	5.48														
95	9.02	8.85	6.07	5.82														
100	8.68	8.62	6.61	6.32														
105	8.67	8.71	7.28	6.93														
110	8.94	9.05	8.10	7.70														
115	9.41	9.59	9.01	8.59														
120	10.0	10.3	9.99	9.54														
125	10.8	11.1	11.1	10.6														
130	11.7	12.0	12.2	11.6														
135	12.6	12.9	13.3	12.7														
140	13.5	13.8	14.3	13.7														
145	14.4	14.7	15.3	14.6														
150	15.2	15.6	16.3	15.6														
155	16.1	16.4	17.2	16.4														
160	17.0	17.2	18.0	17.2														
165	17.8	18.0	18.6	18.0														
170	18.4	18.6	19.0	18.4														
175	18.8	18.9	19.3	18.8														
180	19.1	19.1	19.3	18.9														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks: