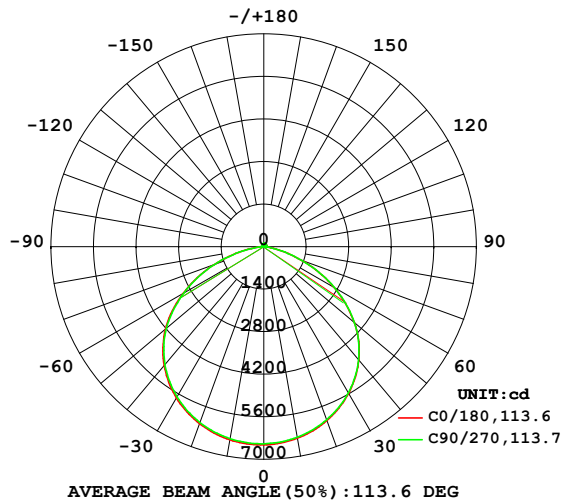


LUMINAIRE PHOTOMETRIC TEST REPORT

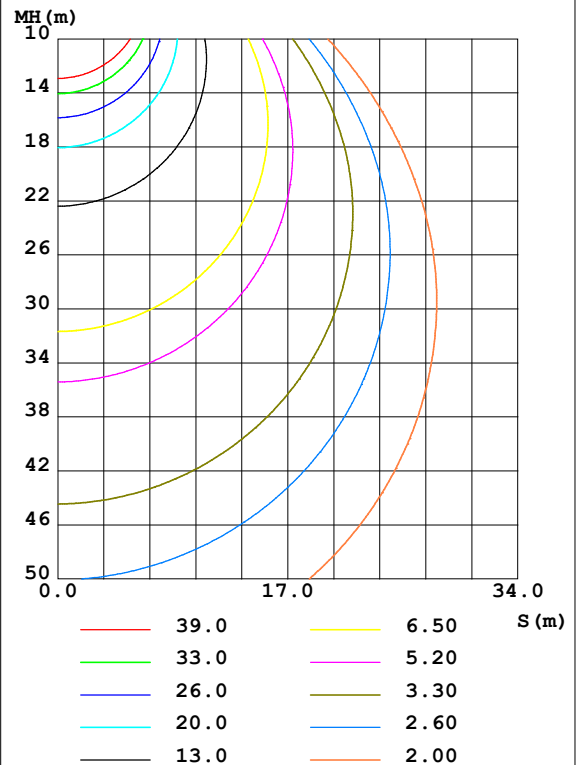
Test:U:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 189.35 lm/W			
MODEL		I _{max} (cd)	6523	S/MH (C0/180)	1.31
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18801	η UP, DN (C0-180)	1.2, 46.8
NOMINAL FLUX (lm)	18800.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 50.9
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.35

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	6399	6370	6455	6416					0- 10	616.3	616.3	3.28,3.28
20	6087	6061	6197	6157					10- 20	1777	2393	12.7,12.7
30	5581	5562	5751	5710					20- 30	2726	5119	27.2,27.2
40	4867	4855	5102	5063					30- 40	3339	8459	45,45
50	3897	3902	4227	4184					40- 50	3503	11961	63.6,63.6
60	2659	2669	3058	3025					50- 60	3099	15060	80.1,80.1
70	1330	1334	1759	1736					60- 70	2181	17241	91.7,91.7
80	245.4	239.2	524.6	512.9					70- 80	971.0	18212	96.9,96.9
90	69.59	69.49	39.56	39.25					80- 90	150.3	18362	97.7,97.7
100	61.50	61.43	42.38	42.34					90-100	57.43	18420	98,98
110	62.25	62.39	51.51	51.71					100-110	57.03	18477	98.3,98.3
120	67.80	67.91	62.49	62.76					110-120	60.49	18537	98.6,98.6
130	75.30	75.44	73.59	73.80					120-130	62.52	18600	98.9,98.9
140	83.92	84.15	84.62	84.72					130-140	61.44	18661	99.3,99.3
150	92.33	92.69	93.73	93.71					140-150	55.72	18717	99.6,99.6
160	99.63	100.0	100.6	100.4					150-160	44.70	18762	99.8,99.8
170	104.9	105.2	105.2	104.9					160-170	29.07	18791	99.9,99.9
180	107.3	107.7	107.7	107.3					170-180	10.13	18801	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10222 lm

%lum = 54.4%

%lamp = 54.4%

Conical surface Flux(120deg): 15060 lm

%lum = 80.1%

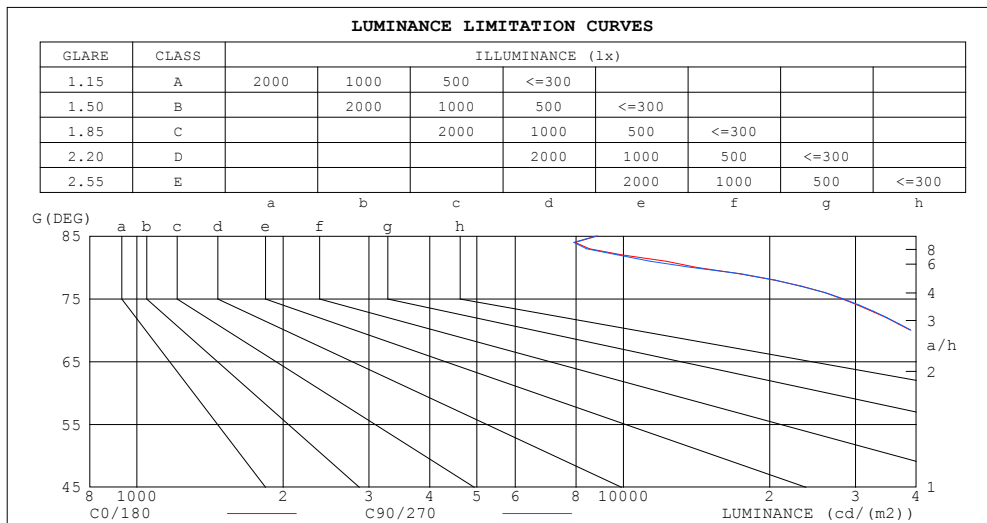
%lamp = 80.1%

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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8855	8796
80	14133	13777
75	28133	28273
70	38891	39014
65	47540	47763
60	53171	53389
55	57388	57607
50	60624	60698
45	62550	62445

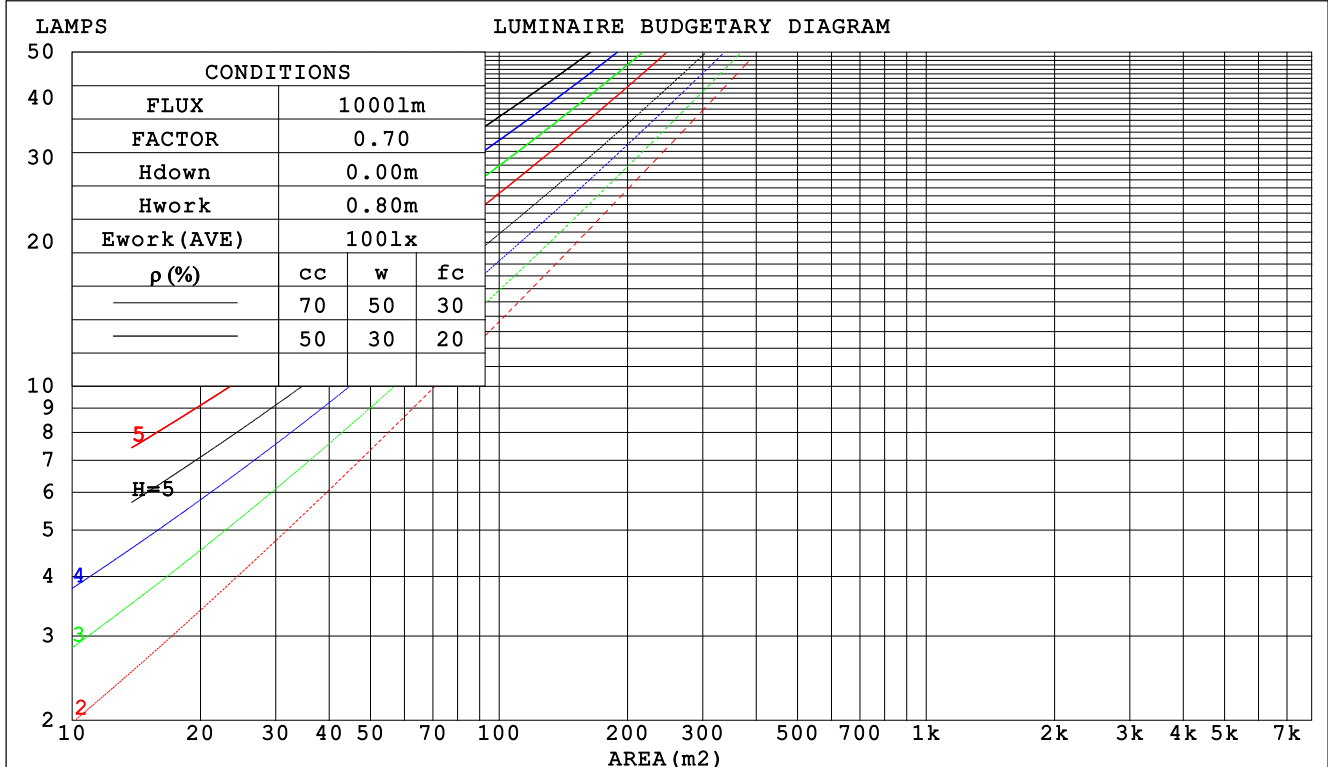
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 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	1.04	1.00	.97	1.02	.98	.95	.97	.94	.92	.93	.91	.88	.89	.87	.85	.83
2.0	.91	.85	.79	.89	.83	.78	.85	.80	.76	.82	.78	.74	.78	.75	.72	.70
3.0	.80	.72	.66	.79	.71	.65	.75	.69	.64	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.63	.56	.70	.62	.55	.67	.60	.54	.64	.58	.53	.62	.57	.53	.50
5.0	.64	.55	.48	.62	.54	.48	.60	.53	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.52	.46	.41	.50	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.47	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.30	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 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	.289	.164	.052	.281	.161	.051	.267	.153	.049	.254	.146	.047	.241	.140	.045	
2.0	.278	.152	.047	.271	.149	.046	.258	.144	.045	.246	.138	.043	.236	.133	.042	
3.0	.260	.139	.041	.254	.136	.041	.243	.132	.040	.232	.127	.039	.223	.123	.038	
4.0	.242	.126	.037	.237	.124	.037	.227	.120	.036	.217	.117	.035	.208	.113	.034	
5.0	.225	.115	.033	.220	.113	.033	.211	.110	.032	.203	.107	.032	.195	.104	.031	
6.0	.210	.105	.030	.205	.104	.030	.197	.101	.029	.190	.098	.029	.182	.096	.029	
7.0	.196	.097	.027	.192	.096	.027	.184	.093	.027	.178	.091	.026	.171	.089	.026	
8.0	.183	.089	.025	.180	.088	.025	.173	.086	.025	.167	.085	.024	.161	.083	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.080	.023	.157	.079	.023	.152	.077	.022	
10.0	.162	.078	.022	.159	.077	.021	.154	.075	.021	.148	.074	.021	.144	.072	.021	

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	.197	.174	.154	.168	.150	.132	.115	.103	.092	.066	.060	.053	.021	.019	.017	
2.0	.188	.150	.118	.161	.129	.102	.111	.089	.071	.064	.052	.042	.020	.017	.014	
3.0	.181	.132	.094	.155	.114	.081	.106	.079	.057	.061	.046	.034	.020	.015	.011	
4.0	.173	.119	.078	.149	.103	.067	.102	.072	.047	.059	.042	.028	.019	.014	.009	
5.0	.166	.109	.066	.143	.094	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
6.0	.159	.100	.058	.137	.087	.051	.094	.061	.036	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.052	.131	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.146	.088	.047	.126	.076	.041	.087	.053	.029	.051	.032	.017	.016	.010	.006	
9.0	.140	.083	.044	.121	.072	.038	.084	.051	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.079	.041	.116	.068	.036	.081	.048	.025	.047	.028	.015	.015	.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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 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	2H	16.5	18.0	16.8	18.2	18.5	16.5	18.0	16.8	18.2	18.5
	3H	17.5	18.9	17.9	19.2	19.4	17.6	18.9	17.9	19.2	19.5
	4H	17.8	19.1	18.1	19.4	19.7	17.8	19.1	18.2	19.4	19.7
	6H	17.8	19.0	18.2	19.3	19.7	17.8	19.0	18.2	19.3	19.7
	8H	17.8	18.9	18.2	19.3	19.6	17.8	19.0	18.2	19.3	19.6
	12H	17.7	18.9	18.1	19.2	19.5	17.8	18.9	18.1	19.2	19.6
4H	2H	17.0	18.3	17.3	18.5	18.8	17.0	18.3	17.3	18.6	18.9
	3H	18.1	19.3	18.5	19.6	19.9	18.2	19.3	18.5	19.6	20.0
	4H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2
	6H	18.5	19.4	19.0	19.8	20.2	18.6	19.4	19.0	19.8	20.3
	8H	18.5	19.3	19.0	19.8	20.2	18.5	19.4	19.0	19.8	20.2
	12H	18.5	19.2	18.9	19.7	20.1	18.5	19.3	19.0	19.7	20.1
8H	4H	18.5	19.3	19.0	19.8	20.2	18.5	19.4	19.0	19.8	20.2
	6H	18.6	19.3	19.1	19.8	20.2	18.7	19.3	19.1	19.8	20.3
	8H	18.6	19.2	19.1	19.7	20.2	18.6	19.2	19.1	19.7	20.2
	12H	18.6	19.1	19.1	19.6	20.1	18.6	19.1	19.1	19.6	20.2
12H	4H	18.5	19.2	18.9	19.7	20.1	18.5	19.3	19.0	19.7	20.1
	6H	18.6	19.2	19.1	19.7	20.2	18.6	19.2	19.1	19.7	20.2
	8H	18.6	19.1	19.1	19.6	20.1	18.6	19.1	19.1	19.6	20.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.5					
2.0H	+ 0.5 / - 0.4					+ 0.5 / - 0.4					

CIE Pub.117, 18801 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.2)
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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

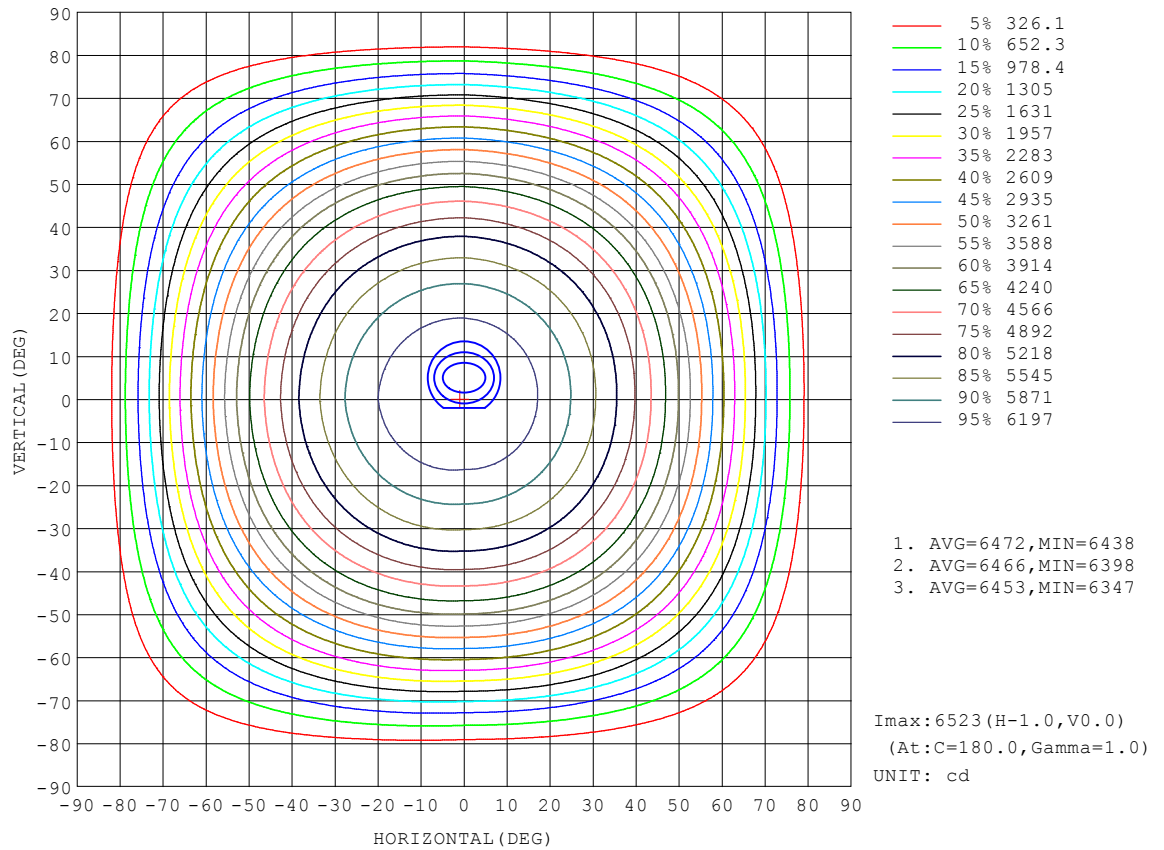
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	84	73	66	82	72	66	79	71	65	57
1.50	89	79	72	87	78	72	84	76	70	63
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	87	83	74
3.00	103	96	91	100	94	89	96	91	87	78
4.00	106	101	97	104	99	95	99	95	92	83
5.00	109	104	100	106	102	99	101	98	95	85
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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

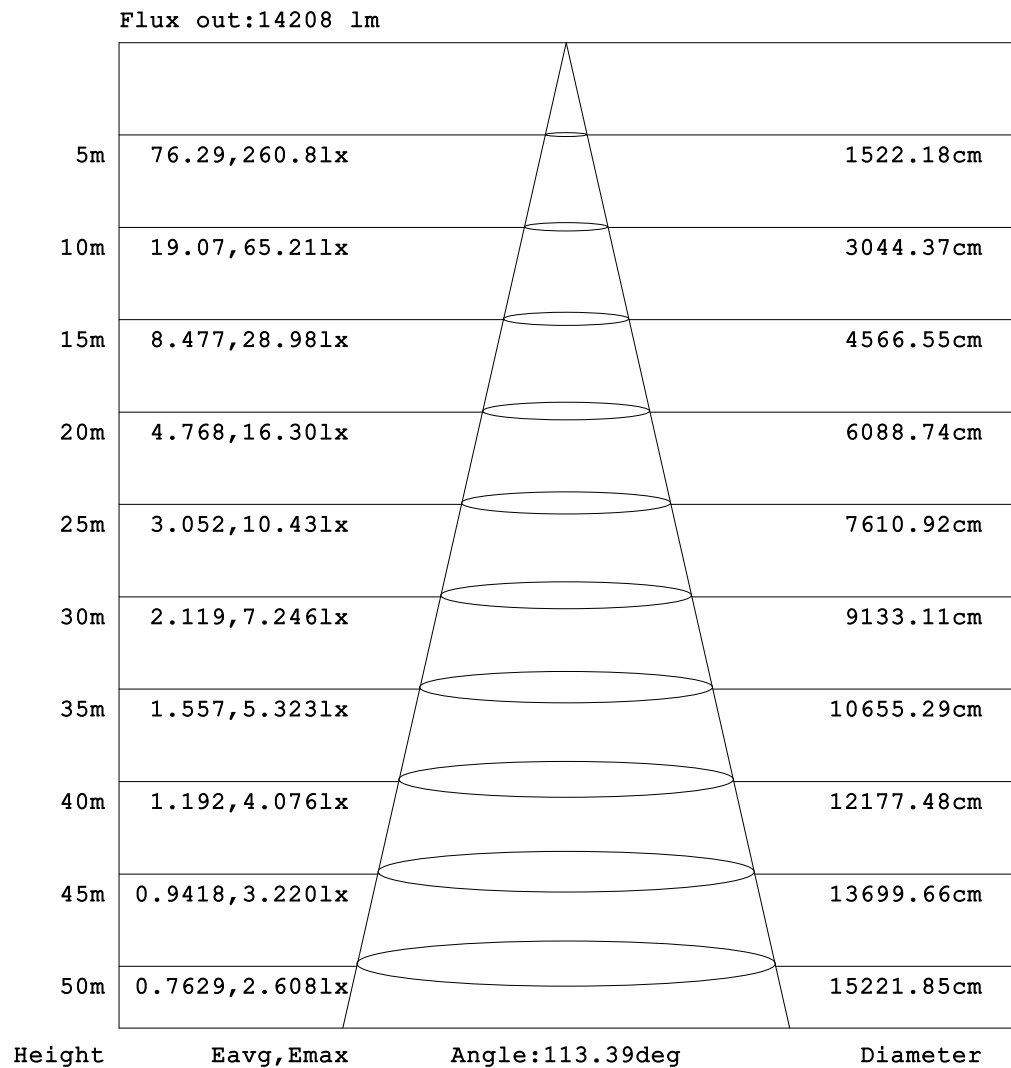


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



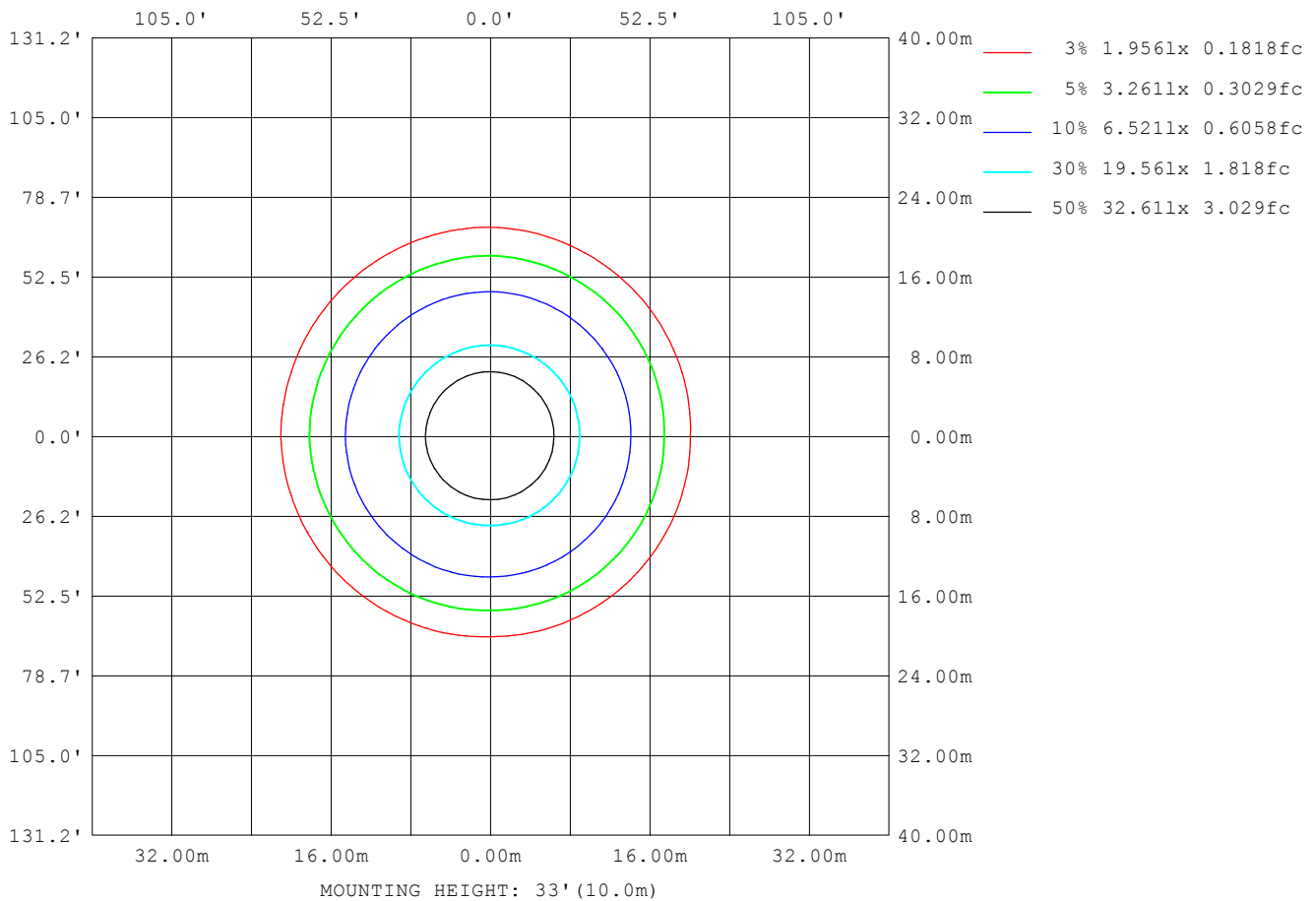
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date: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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 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: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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

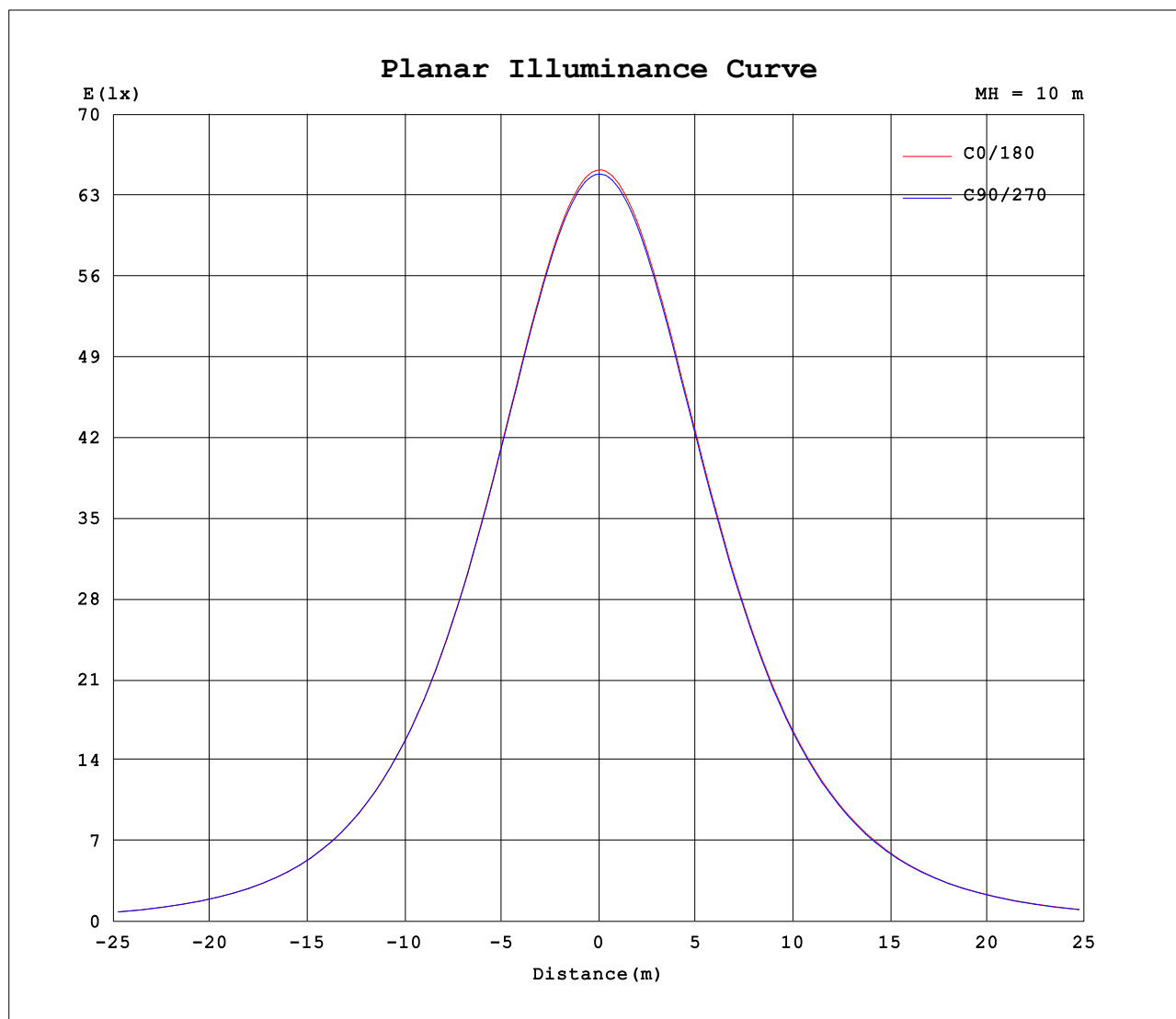
AvgL	cd/m2
L_0~180 (65) av	52426
L_0~180 (75) av	34905
L_0~180 (85) av	10931
L_90~270 (65) av	52217
L_90~270 (75) av	34728
L_90~270 (85) av	10727
L_45 (65) av	52601
L_45 (75) av	35218
L_45 (85) av	10933

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:218.62V I:0.4731A P:99.291W PF:0.9600 Freq:49.99Hz Lamp Flux:18800.9x1 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	6521	6486	6521	6486															
5	6485	6450	6511	6473															
10	6399	6370	6455	6416															
15	6267	6240	6350	6310															
20	6087	6061	6197	6157															
25	5859	5836	5999	5959															
30	5581	5562	5751	5710															
35	5253	5237	5453	5412															
40	4867	4855	5102	5063															
45	4423	4416	4698	4658															
50	3897	3902	4227	4184															
55	3292	3304	3669	3626															
60	2659	2669	3058	3025															
65	2009	2019	2422	2395															
70	1330	1334	1759	1736															
75	728	732	1079	1066															
80	245	239	525	513															
85	77.2	76.7	113	110															
90	69.6	69.5	39.6	39.2															
95	64.7	64.6	40.2	39.9															
100	61.5	61.4	42.4	42.3															
105	61.0	61.1	46.2	46.3															
110	62.3	62.4	51.5	51.7															
115	64.7	64.8	57.0	57.3															
120	67.8	67.9	62.5	62.8															
125	71.3	71.4	68.0	68.2															
130	75.3	75.4	73.6	73.8															
135	79.6	79.7	79.3	79.4															
140	83.9	84.1	84.6	84.7															
145	88.2	88.5	89.5	89.6															
150	92.3	92.7	93.7	93.7															
155	96.2	96.5	97.4	97.3															
160	99.6	100	101	100															
165	103	103	103	103															
170	105	105	105	105															
175	107	107	107	106															
180	107	108	108	107															

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