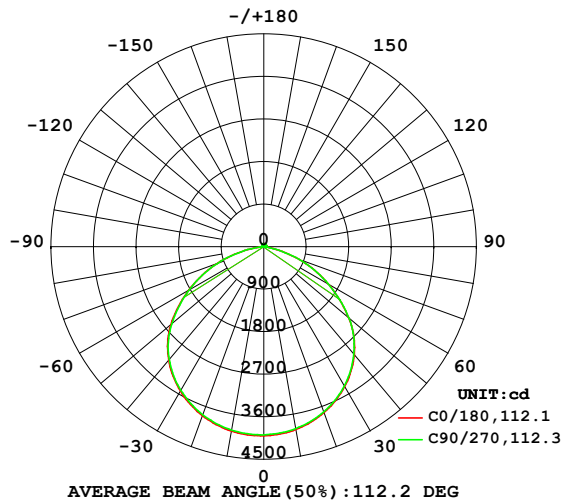


LUMINAIRE PHOTOMETRIC TEST REPORT

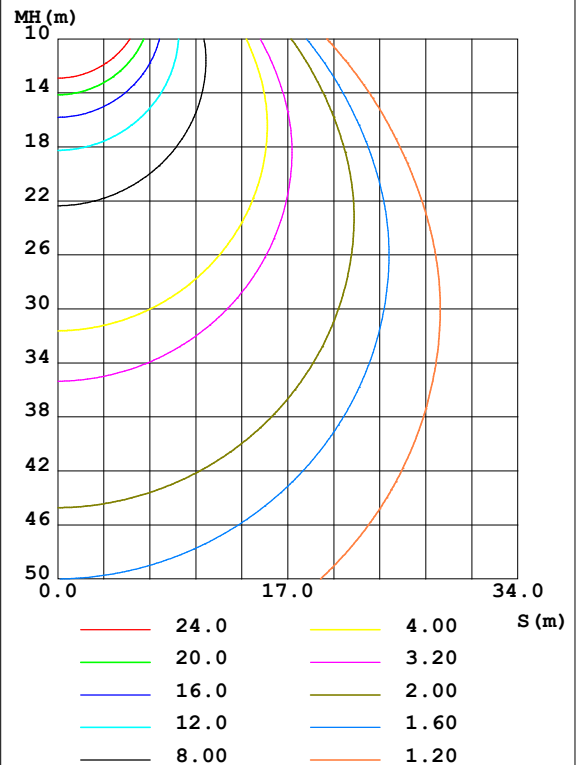
Test:U:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 191.15 lm/W			
MODEL		I _{max} (cd)	4002	S/MH (C0/180)	1.31
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11396	η UP,DN(C0-180)	1.2,46.6
NOMINAL FLUX(lm)	11396.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,51.0
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	3926	3907	3961	3939					0- 10	378.2	378.2	3.32, 3.32
20	3735	3718	3804	3783					10- 20	1090	1469	12.9, 12.9
30	3423	3407	3530	3511					20- 30	1673	3142	27.6, 27.6
40	2980	2967	3130	3113					30- 40	2048	5190	45.5, 45.5
50	2347	2357	2570	2541					40- 50	2140	7330	64.3, 64.3
60	1576	1572	1825	1814					50- 60	1856	9186	80.6, 80.6
70	803.2	801.9	1054	1051					60- 70	1298	10484	92, 92
80	122.8	117.3	278.0	281.1					70- 80	565.7	11049	97, 97
90	41.83	41.67	23.78	23.60					80- 90	80.70	11130	97.7, 97.7
100	36.90	36.85	25.40	25.36					90-100	34.44	11164	98, 98
110	37.64	37.81	31.21	31.31					100-110	34.38	11199	98.3, 98.3
120	41.14	41.36	37.91	38.09					110-120	36.69	11235	98.6, 98.6
130	45.86	46.09	44.71	44.93					120-130	38.03	11273	98.9, 98.9
140	51.26	51.54	51.59	51.74					130-140	37.48	11311	99.2, 99.2
150	56.46	56.83	57.26	57.33					140-150	34.06	11345	99.5, 99.5
160	60.97	61.36	61.71	61.72					150-160	27.38	11372	99.8, 99.8
170	64.18	64.51	64.74	64.63					160-170	17.85	11390	99.9, 99.9
180	66.07	66.34	66.28	66.12					170-180	6.230	11396	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6270.2 lm

%lum = 55.0%

%lamp = 55.0%

Conical surface Flux(120deg): 9185.7 lm

%lum = 80.6%

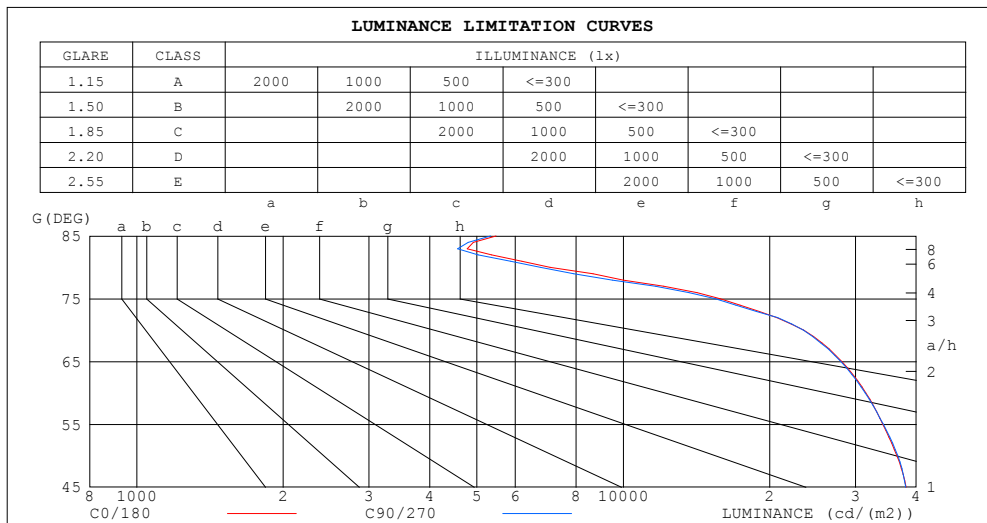
%lamp = 80.6%

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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5472	5337
80	7073	6756
75	15818	15450
70	23483	23446
65	28144	27993
60	31517	31431
55	34155	34250
50	36514	36671
45	38164	38066

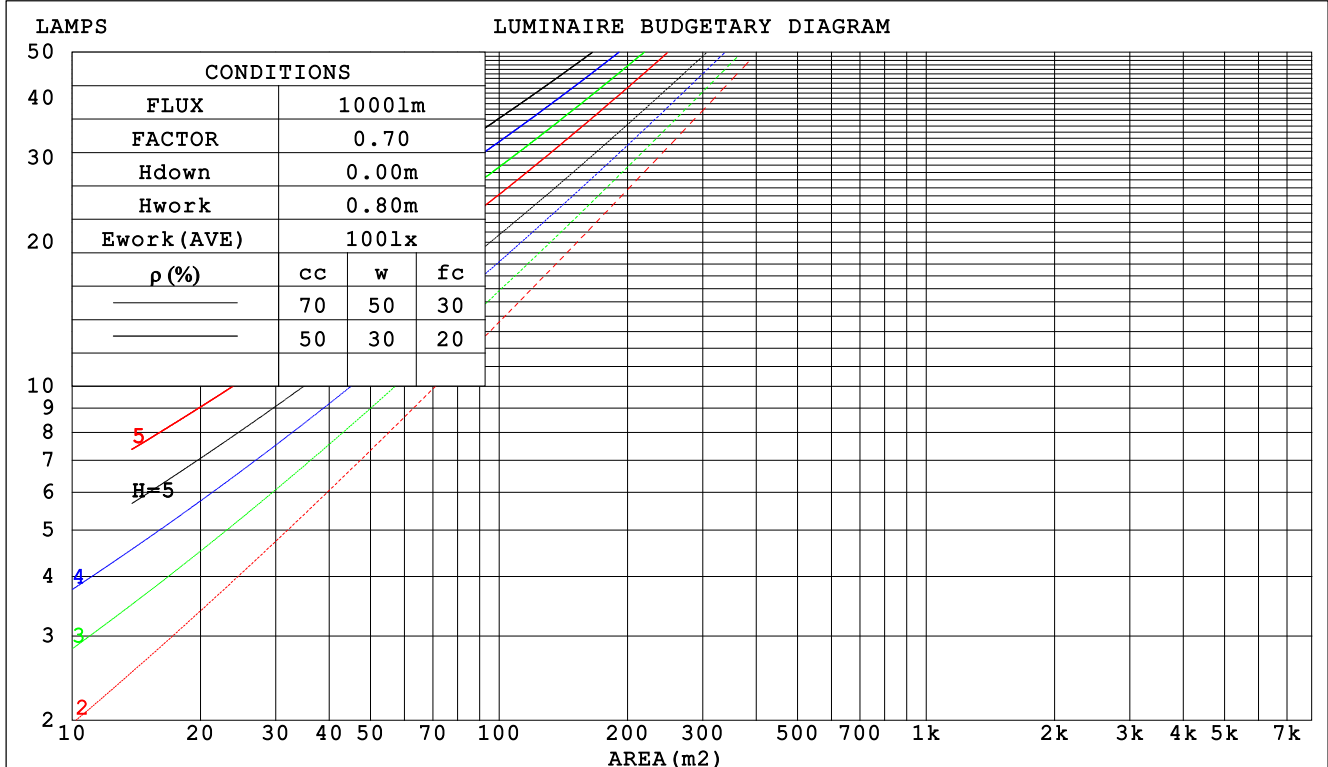
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 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	1.05	1.01	.97	1.02	.98	.95	.97	.94	.92	.93	.91	.89	.89	.87	.86	.83
2.0	.92	.85	.80	.89	.84	.78	.86	.81	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.81	.73	.66	.79	.72	.66	.76	.69	.64	.73	.67	.63	.70	.65	.61	.59
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.62	.57	.53	.51
5.0	.64	.55	.49	.63	.54	.48	.60	.53	.47	.58	.52	.47	.56	.50	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.42	.36	.32	.30
9.0	.44	.35	.30	.43	.35	.30	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.38	.31	.27	.37	.31	.26	.36	.30	.26	.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:

WEC AND CCEC

Test:U:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 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	.286	.163	.052	.279	.159	.050	.264	.152	.048	.251	.145	.046	.239	.138	.045		
2.0	.276	.151	.046	.269	.148	.046	.256	.142	.044	.244	.137	.043	.233	.132	.042		
3.0	.259	.138	.041	.253	.135	.041	.241	.131	.040	.231	.126	.039	.221	.122	.038		
4.0	.241	.125	.037	.235	.123	.036	.225	.119	.036	.216	.116	.035	.207	.113	.034		
5.0	.224	.114	.033	.219	.113	.033	.210	.109	.032	.202	.106	.032	.194	.104	.031		
6.0	.209	.105	.030	.204	.103	.030	.196	.101	.029	.189	.098	.029	.182	.096	.028		
7.0	.195	.096	.027	.191	.095	.027	.184	.093	.027	.177	.091	.026	.170	.089	.026		
8.0	.182	.089	.025	.179	.088	.025	.172	.086	.025	.166	.084	.024	.160	.082	.024		
9.0	.171	.083	.023	.168	.082	.023	.162	.080	.023	.157	.079	.022	.151	.077	.022		
10.0	.161	.077	.021	.159	.077	.021	.153	.075	.021	.148	.074	.021	.143	.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	.122	.122	.122	.070	.070	.070	.022	.022	.022		
1.0	.197	.174	.154	.168	.150	.133	.115	.103	.092	.066	.060	.053	.021	.019	.017		
2.0	.188	.150	.118	.161	.129	.102	.110	.089	.071	.064	.052	.042	.020	.017	.014		
3.0	.180	.132	.094	.155	.114	.082	.106	.079	.057	.061	.046	.034	.020	.015	.011		
4.0	.173	.119	.078	.148	.103	.068	.102	.072	.048	.059	.042	.028	.019	.014	.009		
5.0	.166	.109	.066	.142	.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	.152	.093	.052	.131	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006		
8.0	.146	.088	.048	.126	.076	.041	.087	.053	.029	.051	.032	.018	.016	.010	.006		
9.0	.140	.083	.044	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005		
10.0	.135	.079	.041	.116	.068	.036	.081	.048	.026	.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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 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	16.4	17.9	16.7	18.1	18.3	16.4	17.9	16.7	18.1	18.3
3H	17.5	18.8	17.8	19.1	19.3	17.4	18.8	17.8	19.1	19.3
4H	17.7	18.9	18.0	19.2	19.5	17.7	18.9	18.0	19.2	19.5
6H	17.7	18.9	18.0	19.2	19.5	17.6	18.8	18.0	19.1	19.5
8H	17.6	18.8	18.0	19.1	19.4	17.6	18.7	18.0	19.1	19.4
12H	17.6	18.7	18.0	19.0	19.4	17.5	18.7	17.9	19.0	19.3
4H 2H	16.9	18.1	17.2	18.4	18.7	16.9	18.1	17.2	18.4	18.7
3H	18.0	19.1	18.4	19.5	19.8	18.0	19.1	18.4	19.5	19.8
4H	18.3	19.3	18.7	19.7	20.1	18.3	19.3	18.7	19.7	20.0
6H	18.3	19.2	18.8	19.6	20.0	18.3	19.2	18.8	19.6	20.0
8H	18.3	19.1	18.8	19.5	20.0	18.3	19.1	18.7	19.5	19.9
12H	18.3	19.0	18.7	19.5	19.9	18.3	19.0	18.7	19.4	19.9
8H 4H	18.4	19.2	18.8	19.6	20.0	18.3	19.2	18.8	19.6	20.0
6H	18.4	19.1	18.9	19.5	20.0	18.4	19.1	18.9	19.5	20.0
8H	18.4	19.0	18.9	19.5	20.0	18.4	19.0	18.9	19.4	19.9
12H	18.4	18.9	18.9	19.4	19.9	18.4	18.9	18.9	19.4	19.9
12H 4H	18.3	19.1	18.8	19.5	19.9	18.3	19.0	18.8	19.5	19.9
6H	18.4	19.0	18.9	19.4	19.9	18.4	19.0	18.9	19.4	19.9
8H	18.4	18.9	18.9	19.4	19.9	18.3	18.9	18.9	19.3	19.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.5 / - 0.4					+ 0.5 / - 0.5				

CIE Pub.117, 11396 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: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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

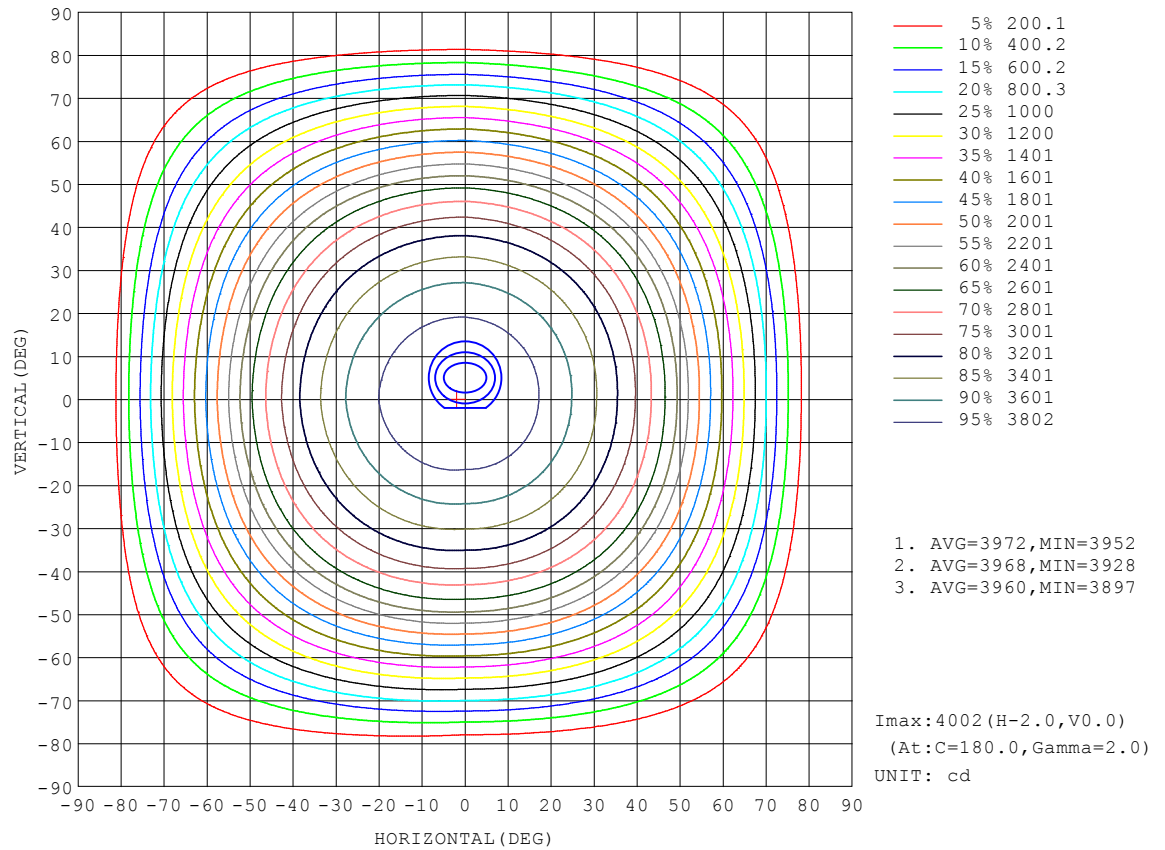
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	75	65	58	73	66	58	51
1.25	84	74	67	82	73	66	79	71	65	58
1.50	89	79	73	87	78	72	84	76	71	63
2.00	96	87	81	94	86	80	90	84	79	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	100	94	90	96	91	87	78
4.00	107	101	97	104	99	95	99	96	92	83
5.00	109	104	100	106	102	99	101	98	95	86
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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

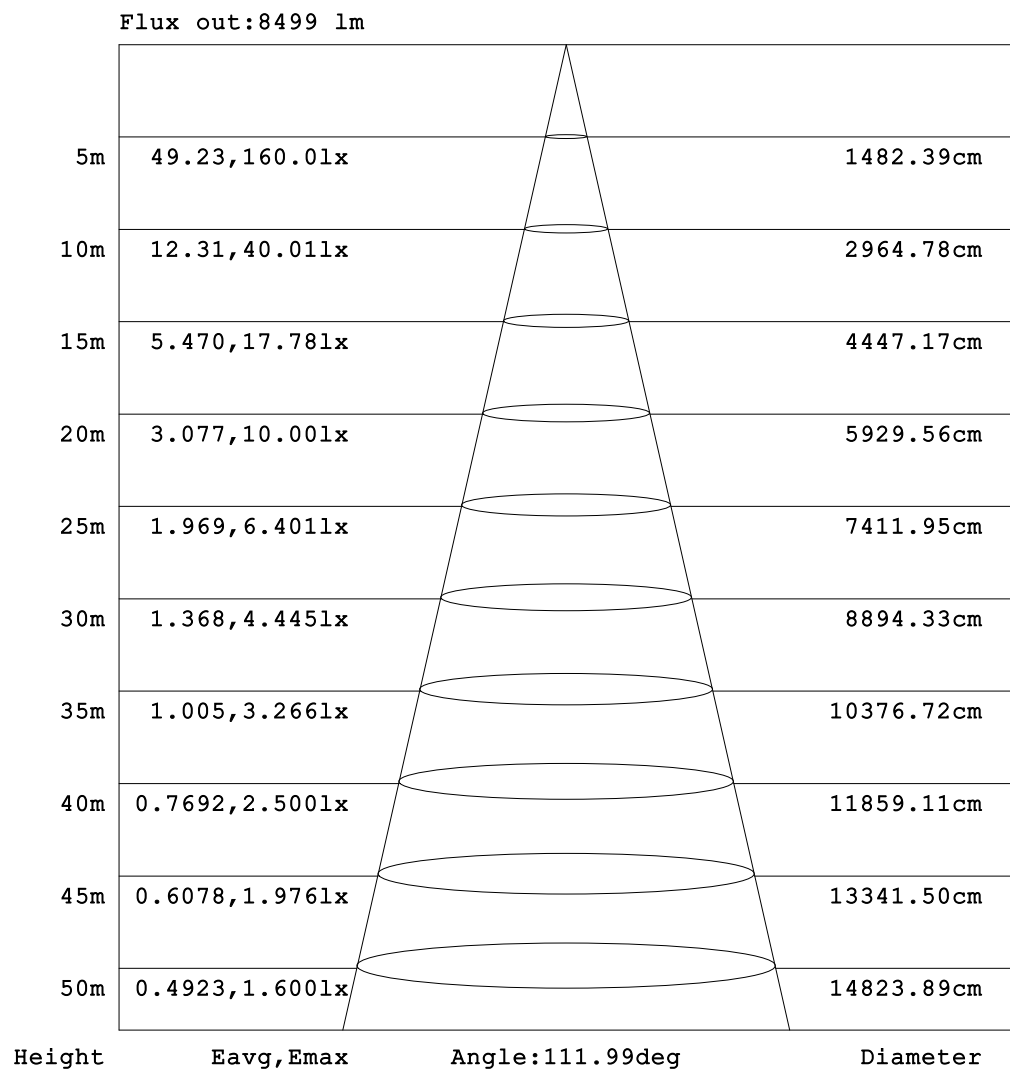


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



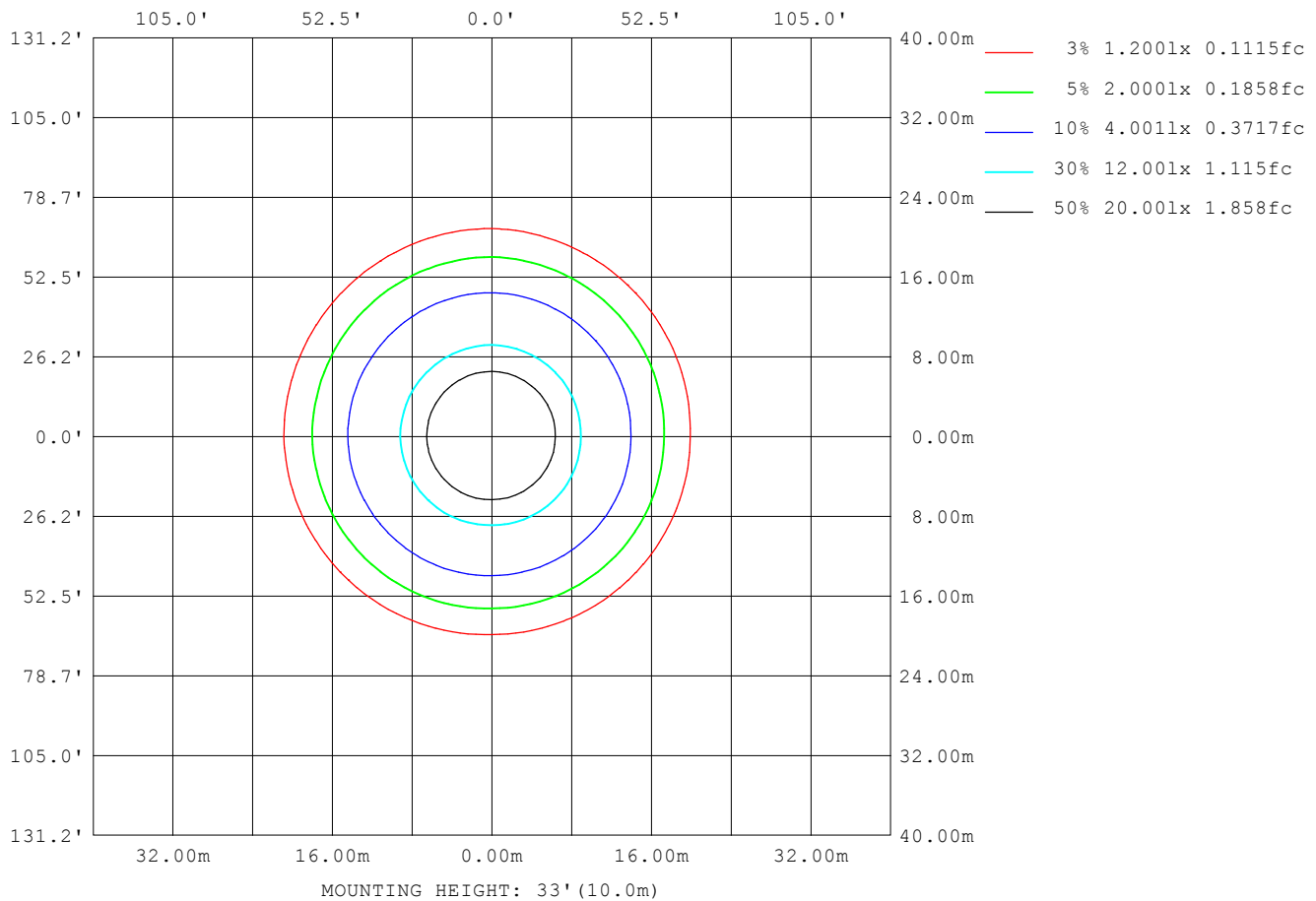
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

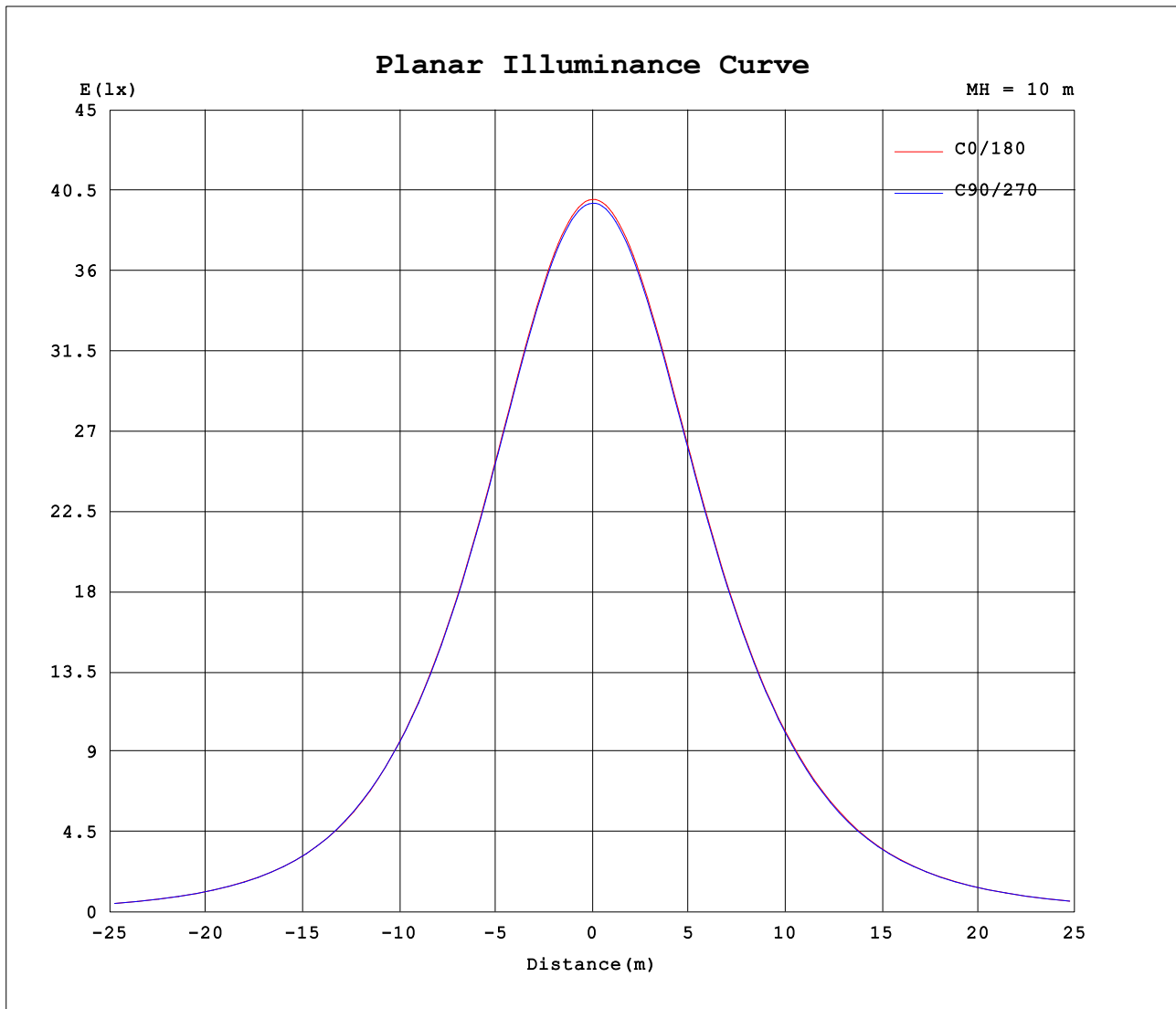
AvgL	cd/m2
L_0~180 (65) av	31131
L_0~180 (75) av	20395
L_0~180 (85) av	6179
L_90~270 (65) av	30993
L_90~270 (75) av	20110
L_90~270 (85) av	6217
L_45 (65) av	31232
L_45 (75) av	20503
L_45 (85) av	6247

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:218.83V I:0.2788A P:59.620W PF:0.9773 Freq:49.99Hz Lamp Flux:11396.4x1 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	4001	3980	4001	3980															
5	3978	3958	3995	3973															
10	3926	3907	3961	3939															
15	3845	3827	3897	3875															
20	3735	3718	3804	3783															
25	3595	3578	3682	3662															
30	3423	3407	3530	3511															
35	3220	3205	3347	3328															
40	2980	2967	3130	3113															
45	2699	2692	2879	2860															
50	2347	2357	2570	2541															
55	1959	1964	2200	2179															
60	1576	1572	1825	1814															
65	1189	1183	1442	1437															
70	803	802	1054	1051															
75	409	400	646	641															
80	123	117	278	281															
85	47.7	46.5	60.0	61.9															
90	41.8	41.7	23.8	23.6															
95	38.8	38.7	24.1	24.0															
100	36.9	36.8	25.4	25.4															
105	36.7	36.8	27.9	28.0															
110	37.6	37.8	31.2	31.3															
115	39.2	39.4	34.6	34.7															
120	41.1	41.4	37.9	38.1															
125	43.4	43.6	41.3	41.5															
130	45.9	46.1	44.7	44.9															
135	48.5	48.8	48.2	48.4															
140	51.3	51.5	51.6	51.7															
145	53.9	54.3	54.6	54.7															
150	56.5	56.8	57.3	57.3															
155	58.8	59.2	59.6	59.7															
160	61.0	61.4	61.7	61.7															
165	62.8	63.2	63.4	63.4															
170	64.2	64.5	64.7	64.6															
175	65.6	65.9	65.7	65.6															
180	66.1	66.3	66.3	66.1															

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: