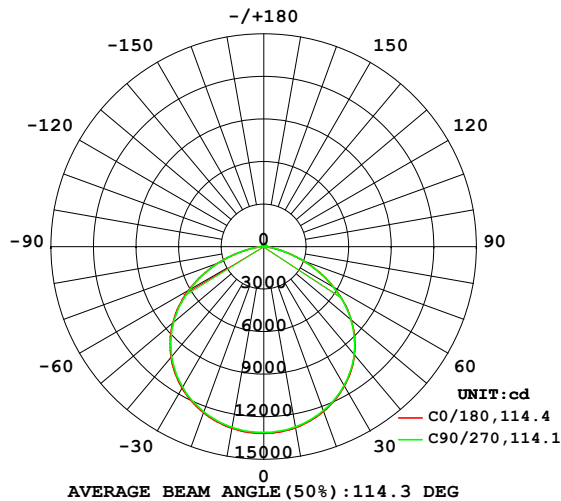


LUMINAIRE PHOTOMETRIC TEST REPORT

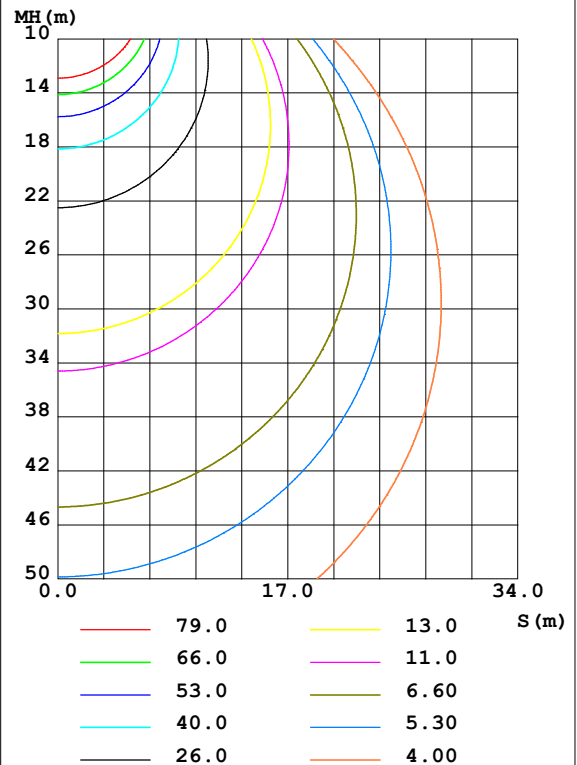
Test:U:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 193.28 lm/W			
MODEL		I _{max} (cd)	13171	S/MH (C0/180)	1.30
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	38279	η UP, DN (C0-180)	1.2, 47.8
NOMINAL FLUX (lm)	38278.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 49.9
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	1296	1290	1301	1294					0- 10	1245	1245	3.25, 3.25
20	1236	1230	1246	1239					10- 20	3590	4835	12.6, 12.6
30	1137	1132	1152	1146					20- 30	5508	10343	27, 27
40	994.9	991.1	1017	1011					30- 40	6744	17087	44.6, 44.6
50	806.8	802.6	838.0	831.3					40- 50	7071	24158	63.1, 63.1
60	567.6	563.5	609.7	600.8					50- 60	6316	30474	79.6, 79.6
70	300.5	303.2	348.6	341.4					60- 70	4506	34980	91.4, 91.4
80	68.75	71.93	101.3	98.03					70- 80	2075	37055	96.8, 96.8
90	14.40	14.39	8.129	8.065					80- 90	333.2	37388	97.7, 97.7
100	12.70	12.69	8.833	8.786					90-100	118.9	37507	98, 98
110	12.71	12.68	10.73	10.68					100-110	117.6	37624	98.3, 98.3
120	13.71	13.67	12.92	12.86					110-120	123.7	37748	98.6, 98.6
130	15.14	15.11	15.12	15.05					120-130	127.1	37875	98.9, 98.9
140	16.81	16.78	17.18	17.07					130-140	124.0	37999	99.3, 99.3
150	18.51	18.50	18.84	18.72					140-150	111.7	38111	99.6, 99.6
160	19.98	19.98	20.16	20.02					150-160	89.48	38200	99.8, 99.8
170	21.04	21.01	21.08	20.92					160-170	58.13	38259	99.9, 99.9
180	21.43	21.41	21.52	21.35					170-180	20.24	38279	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 20645 lm

%lum = 53.9%

%lamp = 53.9%

Conical surface Flux(120deg): 30474 lm

%lum = 79.6%

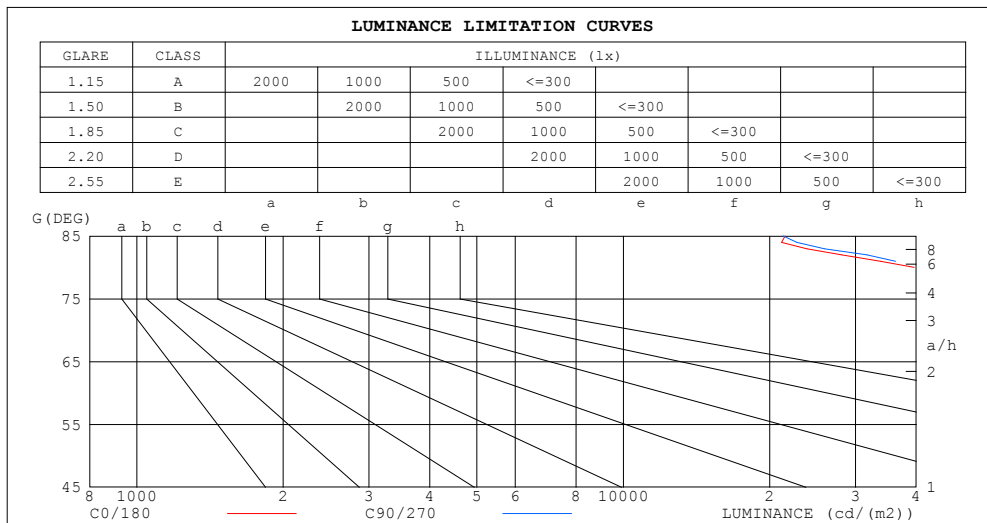
%lamp = 79.6%

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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21511	21324
80	39594	41426
75	66773	67564
70	87874	88662
65	103210	102789
60	113511	112700
55	120840	120113
50	125513	124860
45	128216	127727

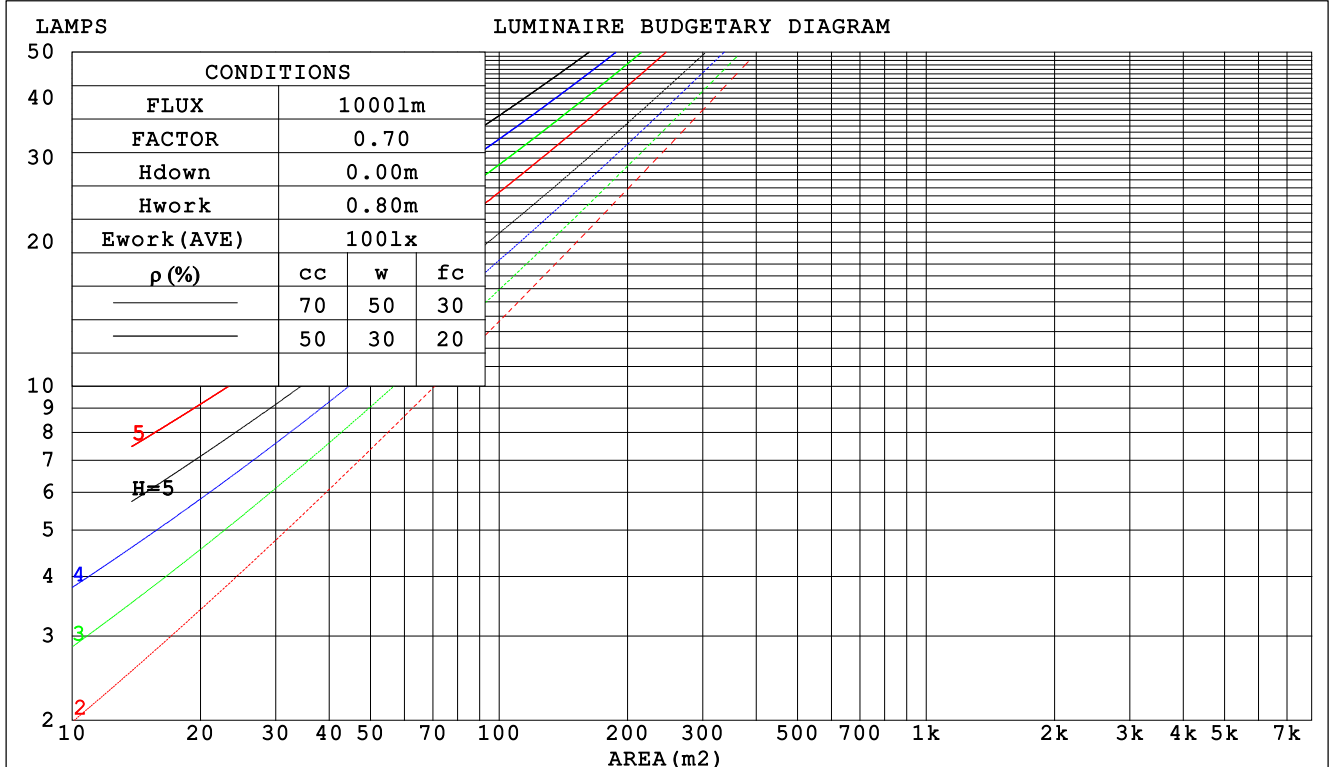
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 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	1.04	1.00	.97	1.02	.98	.95	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.85	.79	.89	.83	.78	.85	.80	.76	.82	.77	.74	.78	.75	.72	.69
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.64	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.62	.56	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.48	.62	.54	.48	.60	.52	.47	.57	.51	.46	.55	.50	.45	.43
6.0	.57	.48	.42	.56	.48	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.38
7.0	.52	.43	.37	.51	.42	.37	.49	.42	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.39	.33	.46	.38	.33	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.40	.32	.27	.39	.32	.26	.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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 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	.292	.166	.053	.284	.162	.051	.269	.155	.049	.256	.148	.047	.244	.141	.046	
2.0	.280	.153	.047	.273	.150	.046	.260	.145	.045	.248	.139	.044	.237	.134	.042	
3.0	.262	.139	.042	.256	.137	.041	.244	.132	.040	.234	.128	.039	.224	.124	.038	
4.0	.243	.126	.037	.238	.124	.037	.228	.121	.036	.218	.117	.035	.209	.114	.035	
5.0	.226	.115	.033	.221	.114	.033	.212	.110	.033	.204	.107	.032	.196	.105	.031	
6.0	.210	.105	.030	.206	.104	.030	.198	.101	.029	.190	.099	.029	.183	.096	.029	
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.178	.091	.027	.172	.089	.026	
8.0	.184	.090	.025	.180	.089	.025	.173	.087	.025	.167	.085	.024	.161	.083	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.152	.077	.022	
10.0	.162	.078	.022	.159	.077	.021	.154	.075	.021	.149	.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	.149	.132	.115	.103	.091	.066	.060	.053	.021	.019	.017	
2.0	.189	.150	.117	.162	.129	.102	.111	.089	.071	.064	.052	.042	.020	.017	.014	
3.0	.181	.132	.094	.155	.114	.081	.107	.079	.057	.062	.046	.034	.020	.015	.011	
4.0	.174	.119	.077	.149	.103	.067	.102	.072	.047	.059	.042	.028	.019	.014	.009	
5.0	.166	.109	.066	.143	.094	.057	.098	.066	.041	.057	.039	.024	.018	.013	.008	
6.0	.159	.100	.058	.137	.087	.050	.095	.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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 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	16.7	18.2	17.0	18.4	18.7	16.7	18.2	17.0	18.4	18.6
3H	17.9	19.2	18.2	19.5	19.8	17.9	19.2	18.2	19.5	19.8
4H	18.2	19.5	18.5	19.8	20.1	18.2	19.5	18.5	19.8	20.1
6H	18.3	19.5	18.6	19.8	20.1	18.3	19.5	18.7	19.8	20.1
8H	18.3	19.4	18.6	19.7	20.1	18.3	19.4	18.7	19.8	20.1
12H	18.2	19.3	18.6	19.7	20.0	18.2	19.4	18.6	19.7	20.0
4H 2H	17.2	18.5	17.6	18.8	19.1	17.2	18.5	17.6	18.8	19.1
3H	18.5	19.6	18.9	20.0	20.3	18.5	19.6	18.9	20.0	20.3
4H	18.9	19.9	19.3	20.3	20.7	18.9	19.9	19.3	20.3	20.7
6H	19.1	20.0	19.5	20.4	20.8	19.1	20.0	19.5	20.4	20.8
8H	19.1	19.9	19.5	20.3	20.7	19.1	19.9	19.5	20.3	20.8
12H	19.0	19.8	19.5	20.2	20.7	19.1	19.8	19.5	20.3	20.7
8H 4H	19.0	19.9	19.5	20.3	20.7	19.0	19.9	19.5	20.3	20.7
6H	19.2	19.9	19.7	20.4	20.8	19.2	19.9	19.7	20.4	20.9
8H	19.2	19.8	19.7	20.3	20.8	19.3	19.9	19.8	20.3	20.8
12H	19.2	19.8	19.7	20.2	20.8	19.3	19.8	19.8	20.3	20.8
12H 4H	19.0	19.8	19.5	20.2	20.6	19.0	19.8	19.5	20.2	20.6
6H	19.2	19.8	19.7	20.3	20.8	19.2	19.8	19.7	20.3	20.8
8H	19.2	19.8	19.8	20.2	20.8	19.3	19.8	19.8	20.3	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 38279 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 12.7)
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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

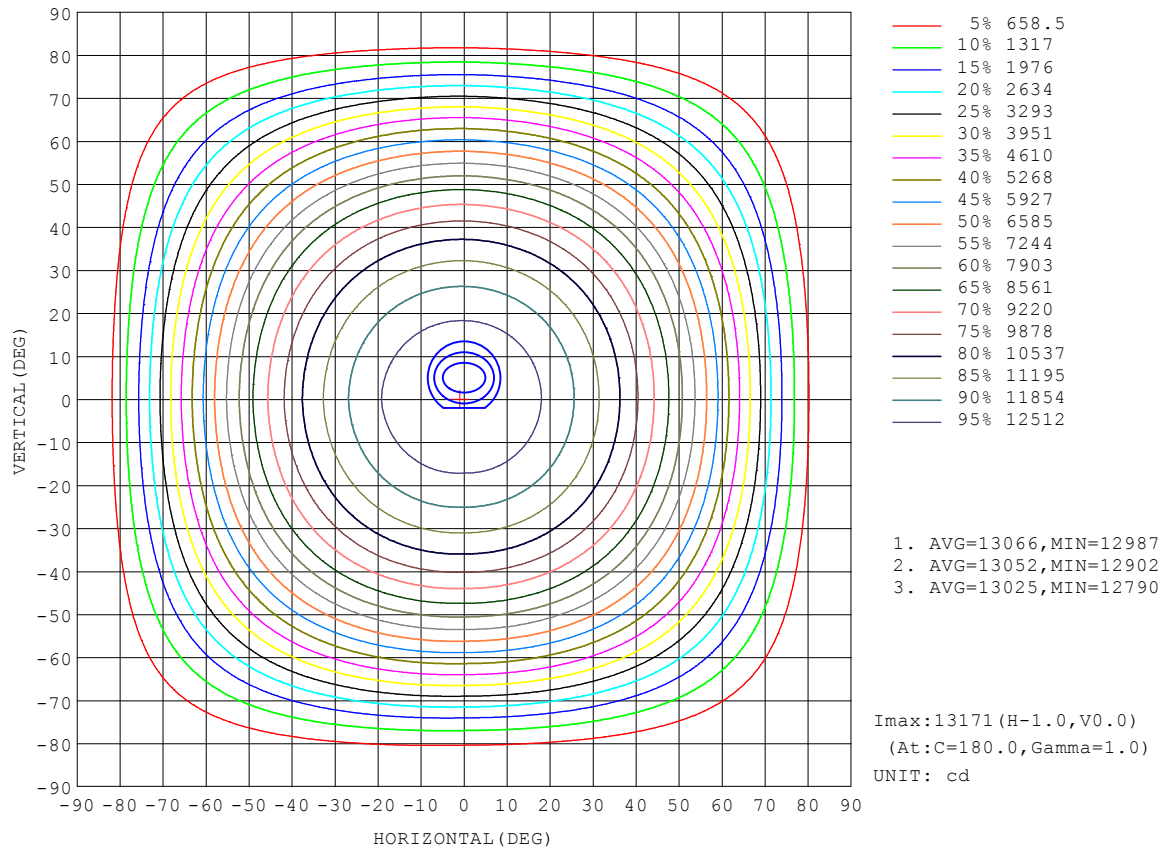
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	39	55	45	38	32
0.80	67	56	49	66	55	48	64	55	48	41
1.00	76	65	58	75	64	58	72	66	57	50
1.25	83	73	66	82	72	66	79	71	65	57
1.50	88	79	72	87	78	71	83	76	70	62
2.00	95	87	81	93	86	80	89	83	78	70
2.50	99	92	86	97	90	85	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	82
5.00	109	104	100	106	102	98	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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

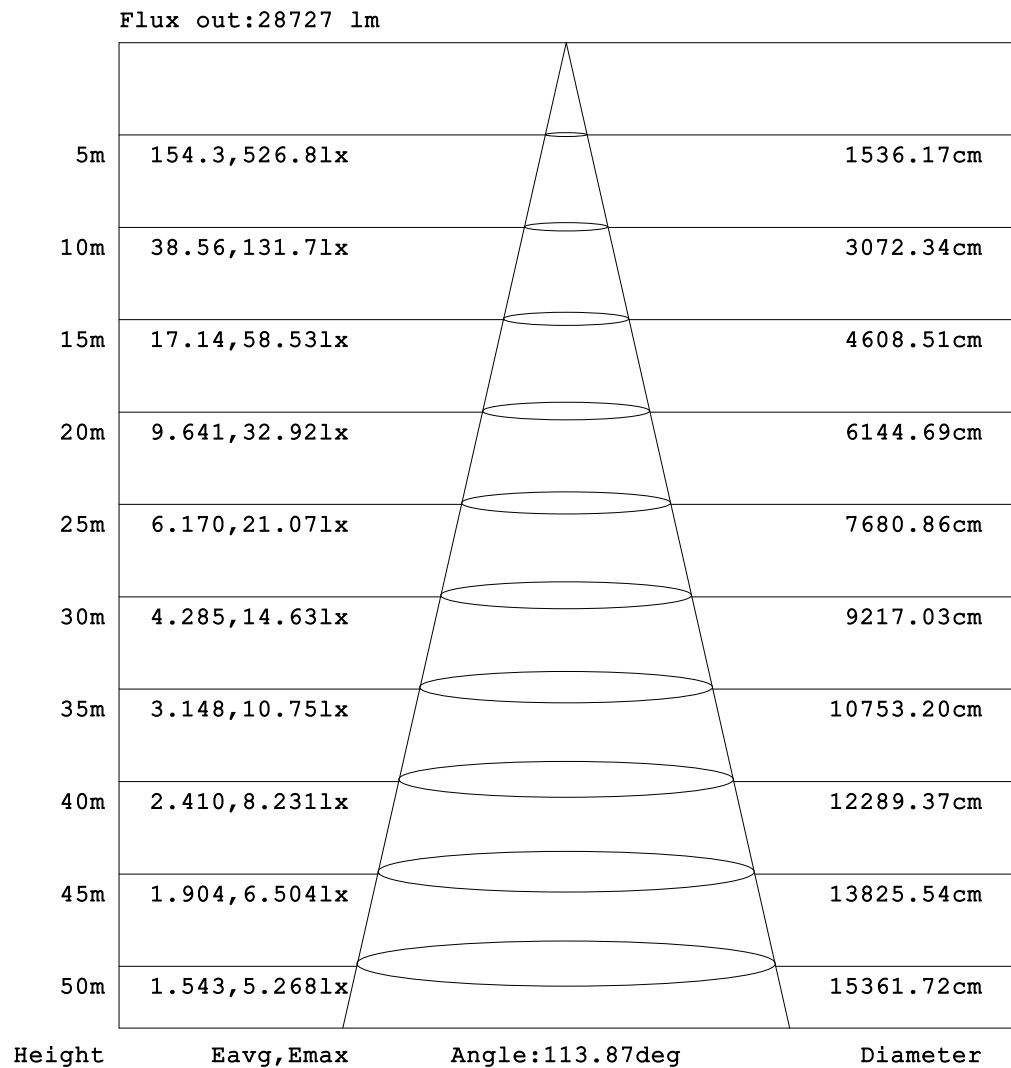


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



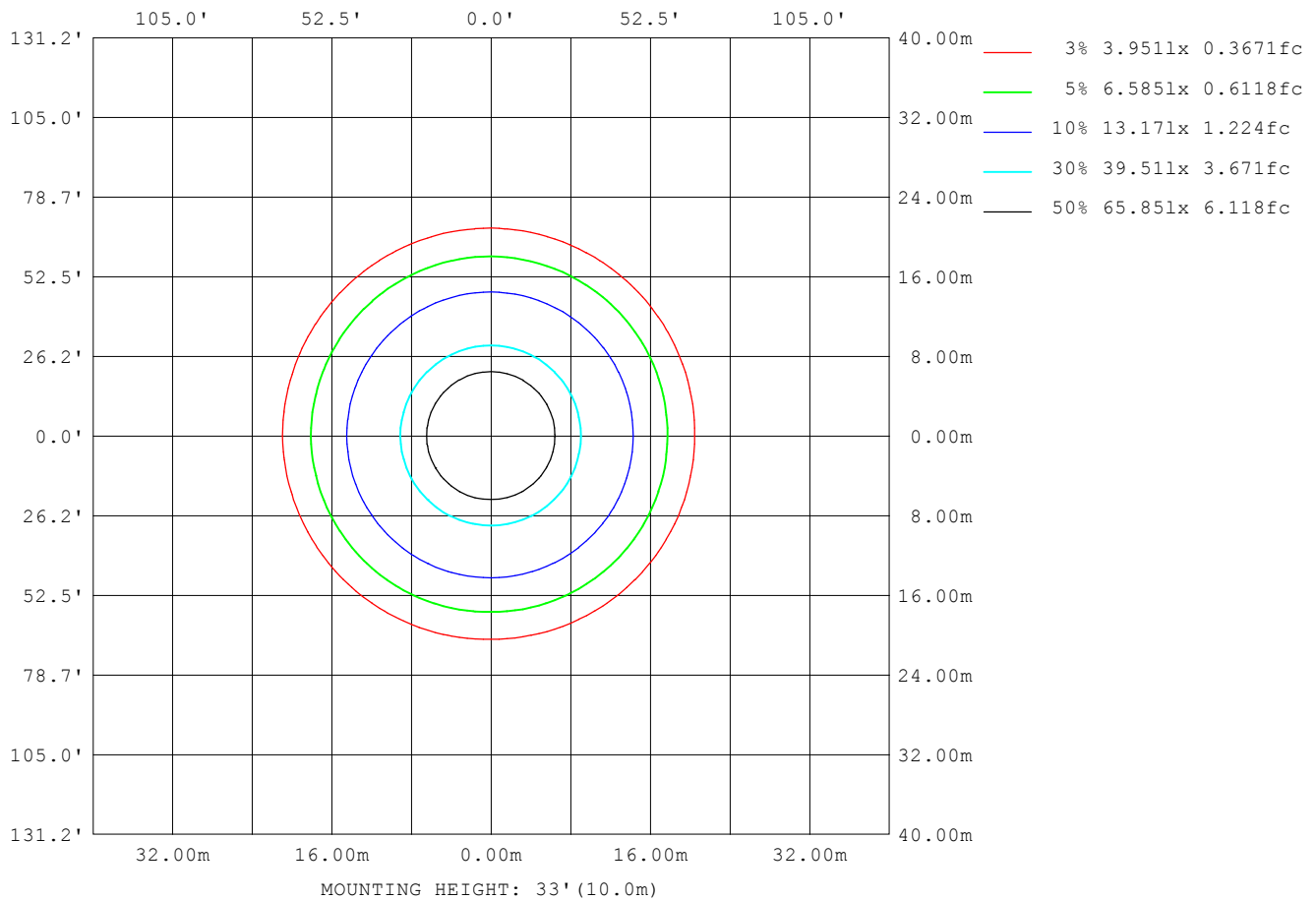
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

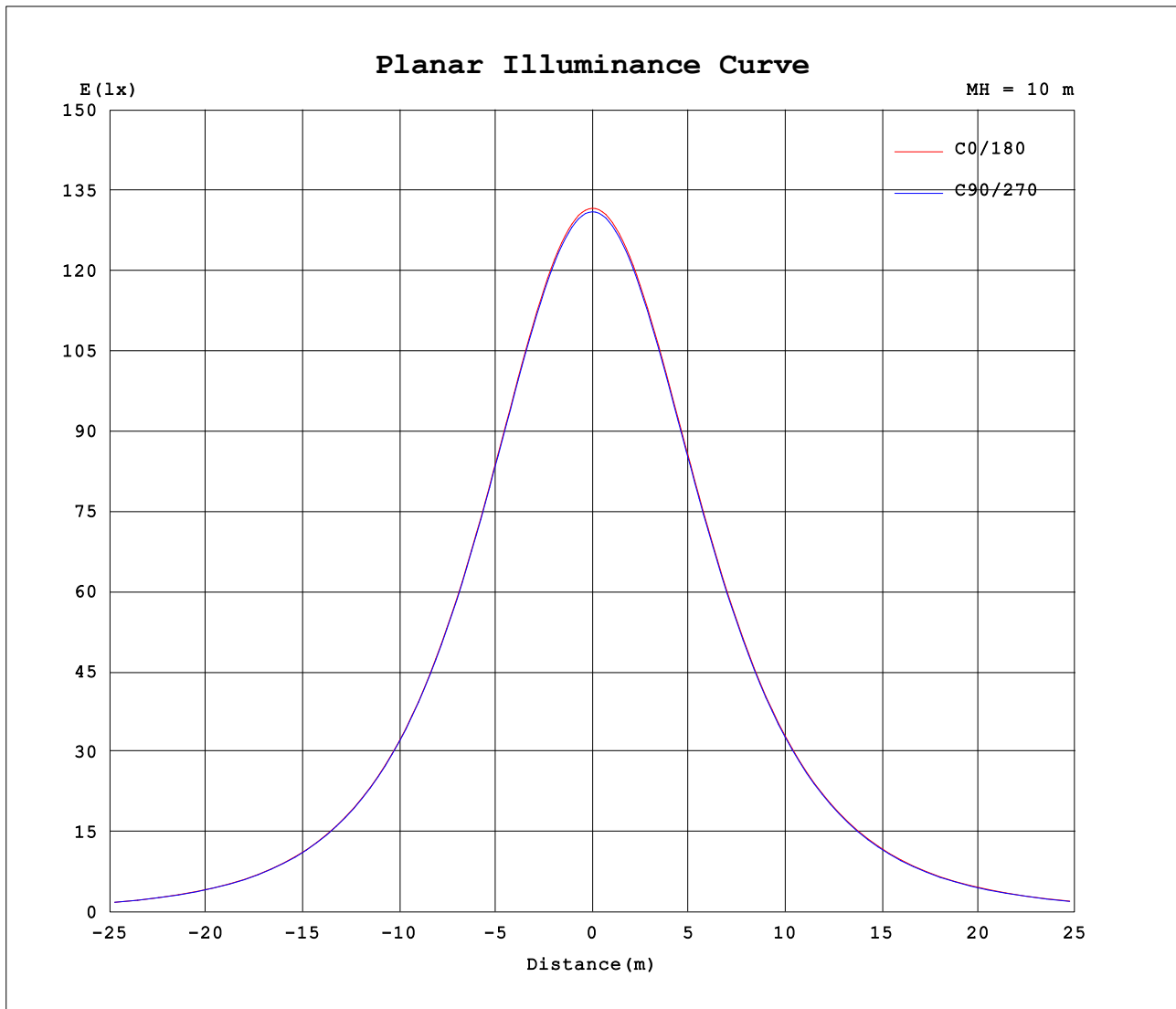
AvgL	cd/m2
L_0~180 (65) av	108572
L_0~180 (75) av	74786
L_0~180 (85) av	24030
L_90~270 (65) av	107422
L_90~270 (75) av	74221
L_90~270 (85) av	23315
L_45 (65) av	108188
L_45 (75) av	74933
L_45 (85) av	23741

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:218.48V I:0.9432A P:198.04W PF:0.9611 Freq:49.99Hz Lamp Flux:38278.8x1 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	1317	1310	1317	1310														
5	1311	1305	1313	1307														
10	1296	1290	1301	1294														
15	1271	1265	1278	1271														
20	1236	1230	1246	1239														
25	1191	1186	1204	1197														
30	1137	1132	1152	1146														
35	1071	1067	1090	1084														
40	995	991	1017	1011														
45	907	903	934	927														
50	807	803	838	831														
55	693	689	730	722														
60	568	564	610	601														
65	436	434	482	474														
70	301	303	349	341														
75	173	175	214	209														
80	68.8	71.9	101	98.0														
85	18.7	18.6	23.1	22.1														
90	14.4	14.4	8.13	8.07														
95	13.4	13.4	8.32	8.27														
100	12.7	12.7	8.83	8.79														
105	12.5	12.5	9.65	9.62														
110	12.7	12.7	10.7	10.7														
115	13.1	13.1	11.8	11.8														
120	13.7	13.7	12.9	12.9														
125	14.4	14.3	14.0	14.0														
130	15.1	15.1	15.1	15.1														
135	16.0	15.9	16.2	16.1														
140	16.8	16.8	17.2	17.1														
145	17.7	17.7	18.1	17.9														
150	18.5	18.5	18.8	18.7														
155	19.3	19.3	19.6	19.4														
160	20.0	20.0	20.2	20.0														
165	20.6	20.6	20.7	20.5														
170	21.0	21.0	21.1	20.9														
175	21.3	21.3	21.4	21.2														
180	21.4	21.4	21.5	21.3														

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: