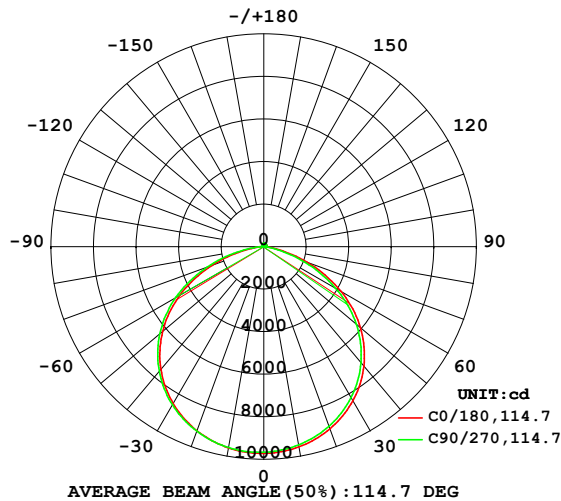


LUMINAIRE PHOTOMETRIC TEST REPORT

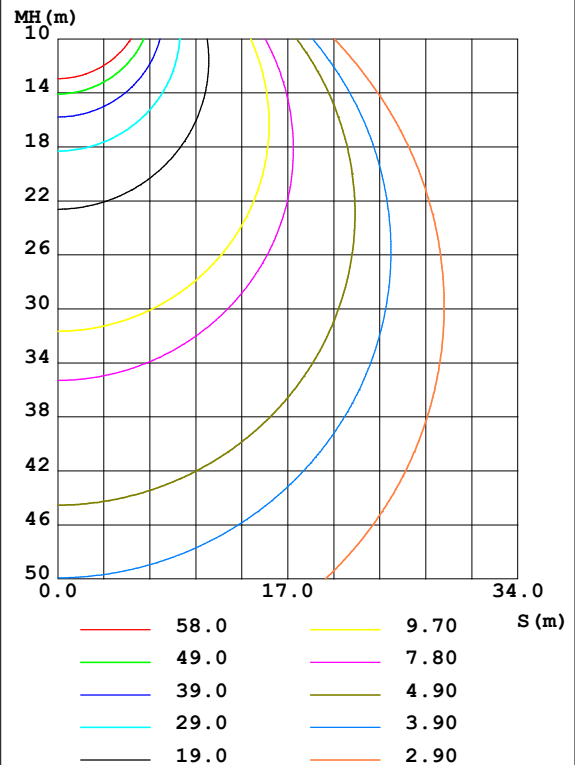
Test:U:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 190.92 lm/W			
MODEL		I _{max} (cd)	9721	S/MH (C0/180)	1.30
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	28271	η UP,DN(C0-180)	1.2,46.5
NOMINAL FLUX(lm)	28270.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,51.2
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	9557	9464	9606	9587					0- 10	918.6	918.6	3.25,3.25
20	9112	8979	9205	9231					10- 20	2648	3567	12.6,12.6
30	8377	8203	8520	8591					20- 30	4064	7631	27,27
40	7326	7113	7528	7650					30- 40	4975	12606	44.6,44.6
50	5936	5681	6206	6382					40- 50	5217	17823	63,63
60	4177	3884	4554	4779					50- 60	4677	22500	79.6,79.6
70	2187	1892	2595	2848					60- 70	3336	25836	91.4,91.4
80	483.1	311.7	746.9	950.2					70- 80	1524	27360	96.8,96.8
90	106.3	103.7	60.24	59.50					80- 90	254.4	27614	97.7,97.7
100	93.32	92.72	64.63	63.20					90-100	86.88	27701	98,98
110	93.37	94.79	78.39	76.19					100-110	85.97	27787	98.3,98.3
120	100.9	103.0	94.50	92.53					110-120	90.80	27878	98.6,98.6
130	111.6	114.2	110.9	108.8					120-130	93.55	27972	98.9,98.9
140	124.1	126.8	126.8	125.0					130-140	91.67	28063	99.3,99.3
150	136.6	139.2	139.5	138.0					140-150	82.89	28146	99.6,99.6
160	147.7	149.7	149.0	147.9					150-160	66.35	28213	99.8,99.8
170	155.4	156.7	155.8	155.0					160-170	43.10	28256	99.9,99.9
180	158.9	159.5	159.5	159.1					170-180	15.02	28271	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 15231 lm

%lum = 53.9%

%lamp = 53.9%

Conical surface Flux(120deg): 22500 lm

%lum = 79.6%

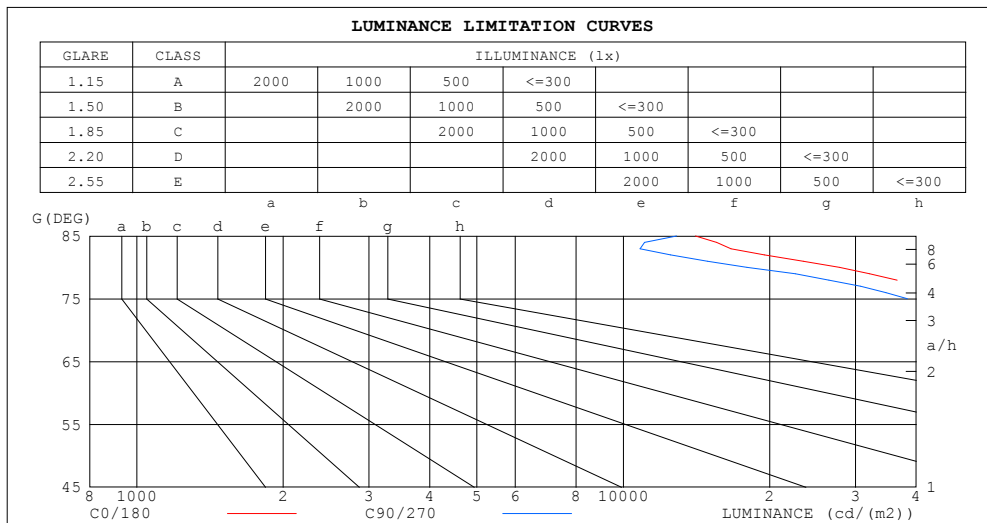
%lamp = 79.6%

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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14075	12876
80	27823	17949
75	47389	38392
70	63942	55319
65	75682	68531
60	83539	77673
55	89081	84297
50	92350	88374
45	94380	91068

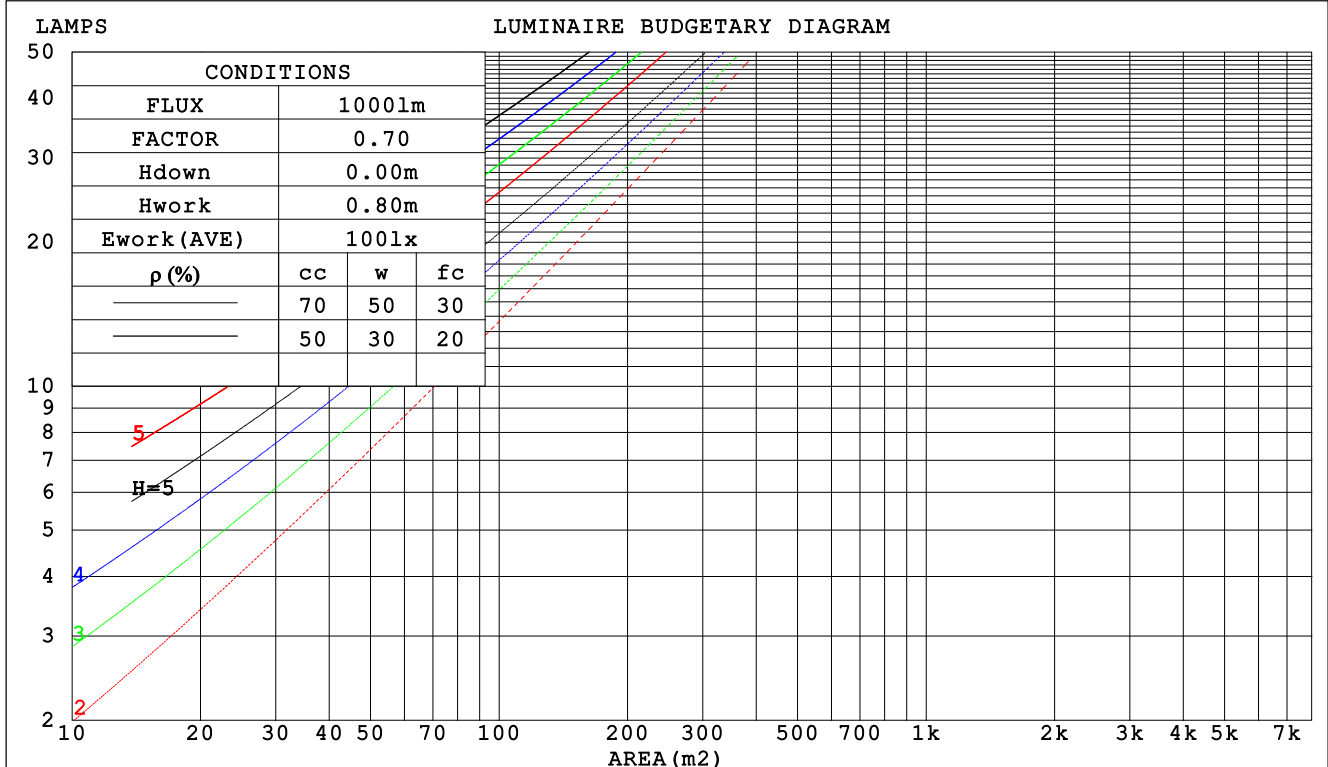
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 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	.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	.56	.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	.41	.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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 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	.270	.155	.049	.256	.148	.047	.244	.141	.046	
2.0	.280	.153	.047	.273	.150	.046	.260	.145	.045	.249	.139	.044	.238	.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	.125	.037	.228	.121	.036	.218	.117	.035	.210	.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	.030	.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	.174	.087	.025	.167	.085	.024	.162	.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	.059	.053	.021	.019	.017	
2.0	.189	.150	.117	.162	.129	.101	.111	.089	.071	.064	.052	.041	.020	.017	.014	
3.0	.181	.132	.093	.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	.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	.031	.017	.016	.010	.006	
9.0	.140	.083	.044	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 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	16.6	18.1	16.9	18.3	18.6	16.4	17.8	16.7	18.1	18.3
3H	17.8	19.1	18.1	19.4	19.7	17.4	18.7	17.7	19.0	19.3
4H	18.0	19.3	18.4	19.6	19.9	17.6	18.9	17.9	19.2	19.5
6H	18.1	19.3	18.5	19.6	20.0	17.6	18.8	18.0	19.1	19.5
8H	18.1	19.3	18.5	19.6	19.9	17.6	18.7	17.9	19.1	19.4
12H	18.1	19.2	18.4	19.5	19.9	17.5	18.6	17.9	19.0	19.3
4H 2H	17.1	18.4	17.4	18.7	19.0	16.9	18.2	17.2	18.5	18.8
3H	18.3	19.5	18.7	19.8	20.1	18.0	19.1	18.4	19.5	19.8
4H	18.7	19.7	19.1	20.1	20.5	18.3	19.3	18.7	19.7	20.1
6H	18.8	19.7	19.3	20.1	20.5	18.4	19.3	18.8	19.6	20.1
8H	18.8	19.7	19.3	20.1	20.5	18.3	19.2	18.8	19.6	20.0
12H	18.8	19.6	19.3	20.0	20.4	18.3	19.1	18.8	19.5	19.9
8H 4H	18.8	19.6	19.2	20.0	20.4	18.4	19.2	18.8	19.6	20.1
6H	18.9	19.6	19.4	20.1	20.5	18.5	19.2	19.0	19.6	20.1
8H	18.9	19.5	19.4	20.0	20.5	18.5	19.1	19.0	19.5	20.0
12H	18.9	19.4	19.4	19.9	20.5	18.4	19.0	19.0	19.5	20.0
12H 4H	18.7	19.5	19.2	19.9	20.4	18.4	19.1	18.8	19.5	20.0
6H	18.9	19.5	19.4	20.0	20.5	18.5	19.1	19.0	19.5	20.0
8H	18.9	19.4	19.4	19.9	20.4	18.5	19.0	19.0	19.5	20.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117, 28271 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.6)
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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

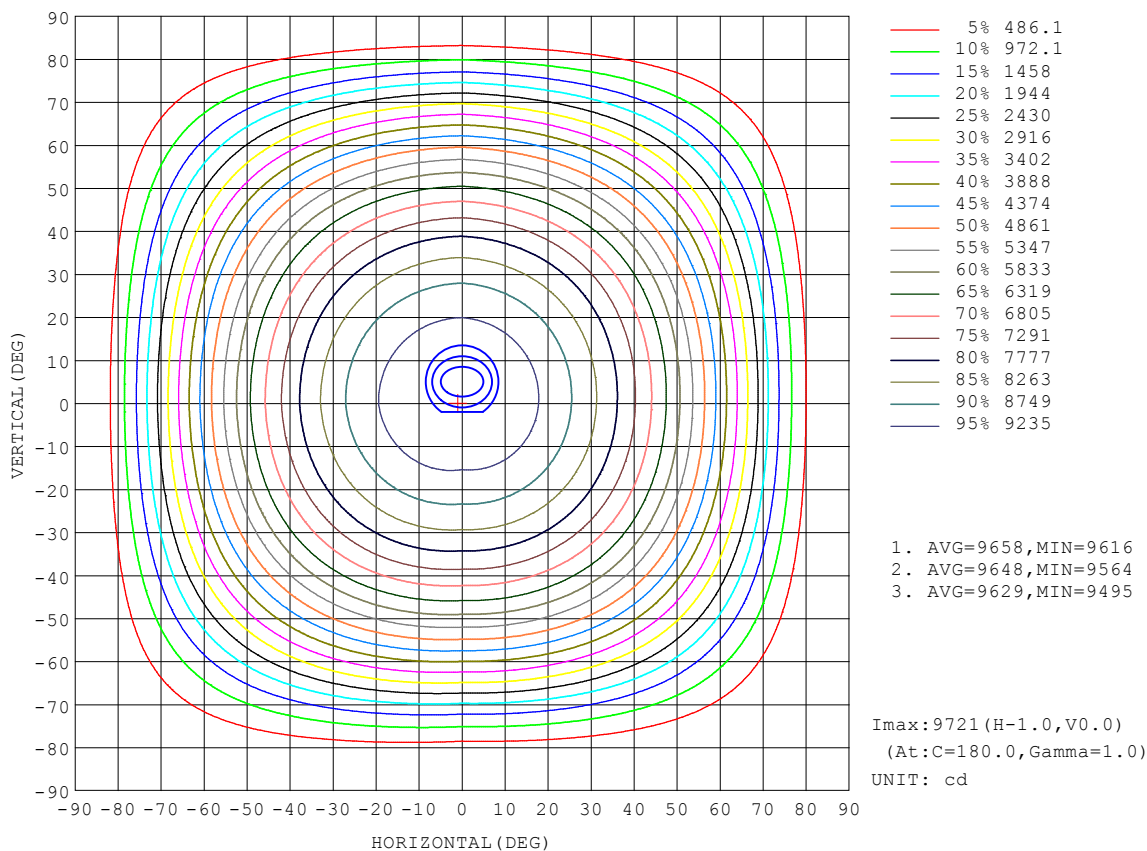
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	39	55	45	38	32
0.80	67	56	49	66	55	48	64	55	48	41
1.00	76	65	58	75	64	58	72	66	57	50
1.25	83	73	66	82	72	65	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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

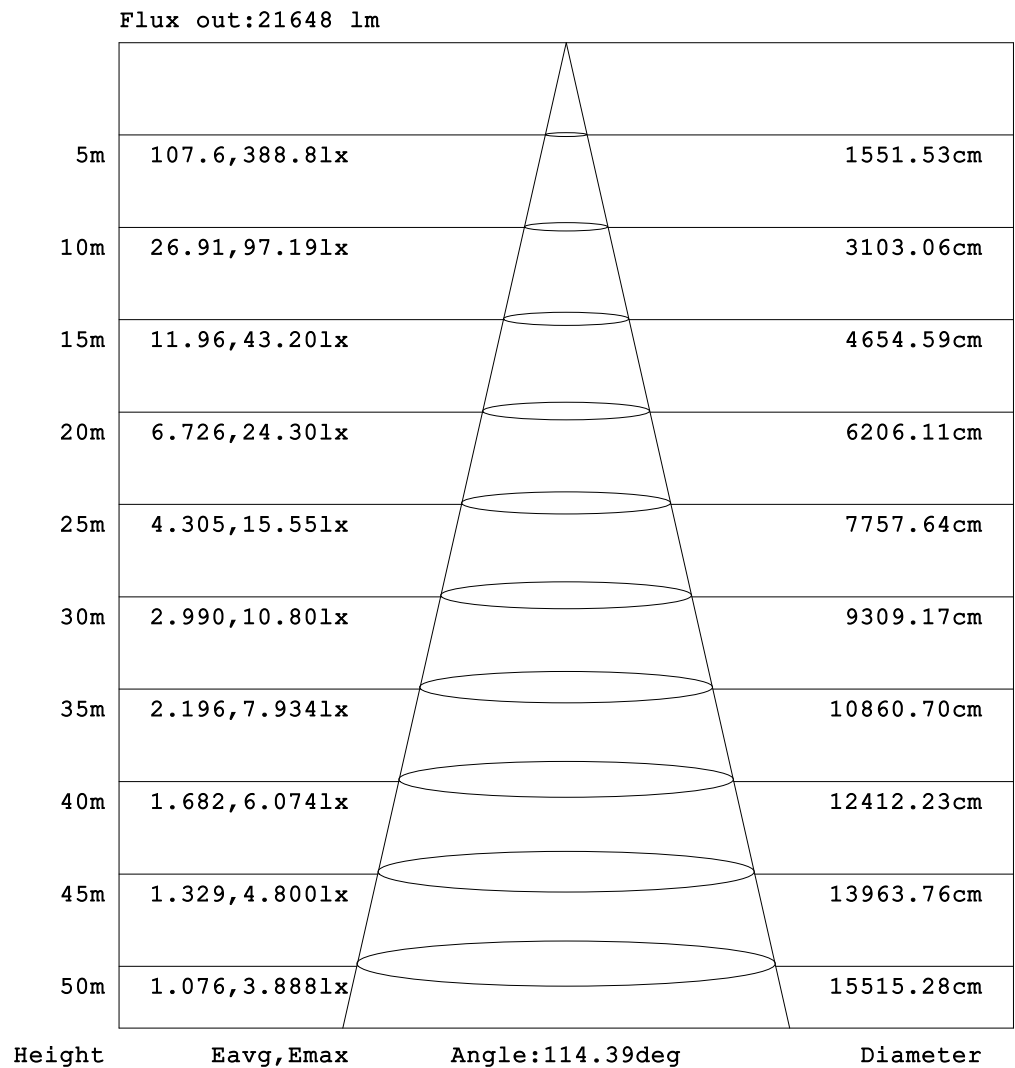


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



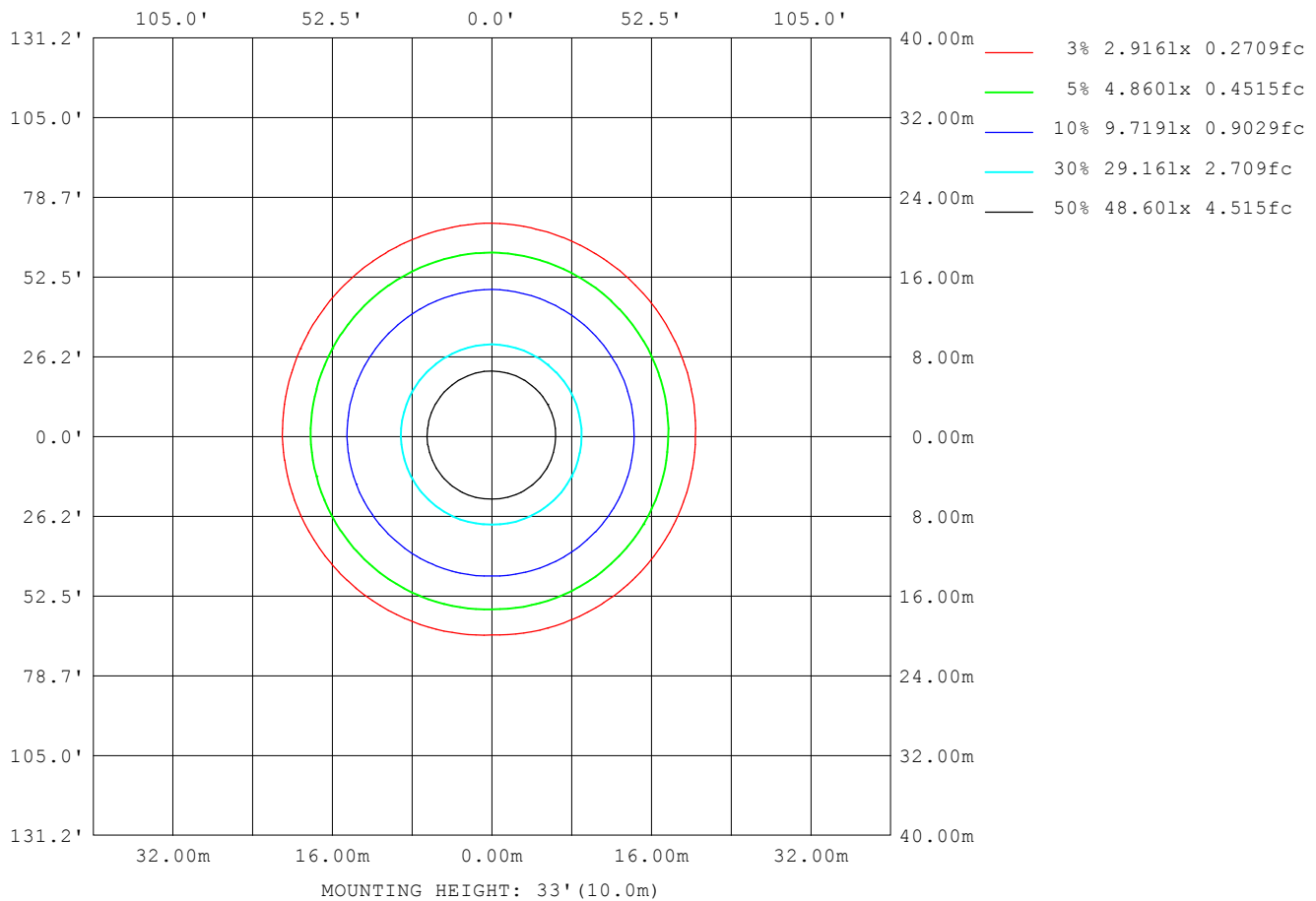
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

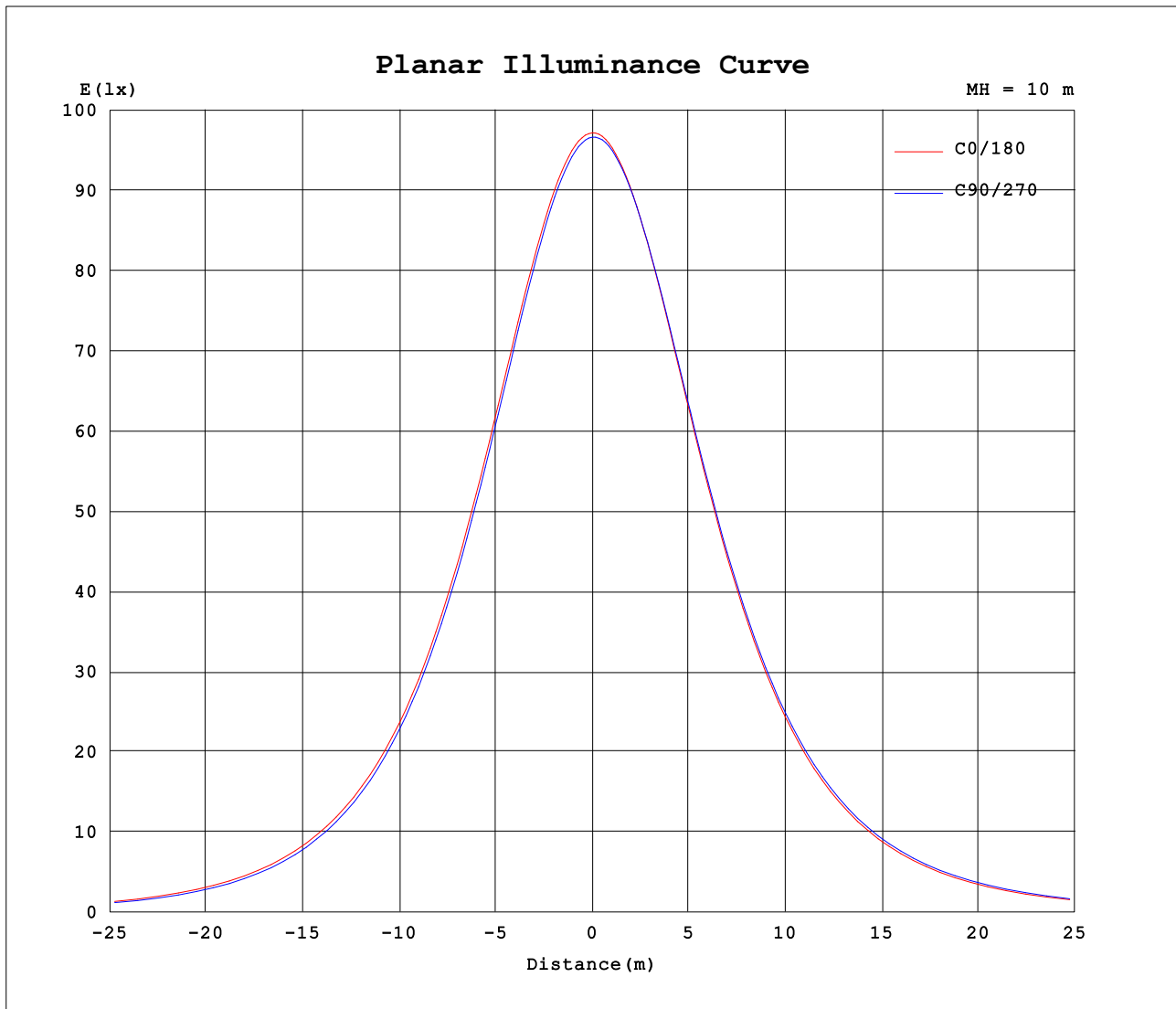
AvgL	cd/m2
L_0~180 (65) av	80275
L_0~180 (75) av	54690
L_0~180 (85) av	16223
L_90~270 (65) av	79585
L_90~270 (75) av	55077
L_90~270 (85) av	21989
L_45 (65) av	80131
L_45 (75) av	55388
L_45 (85) av	19961

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:218.55V I:0.7026A P:148.08W PF:0.9644 Freq:49.99Hz Lamp Flux:28270.6x1 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	9719	9665	9719	9665														
5	9674	9600	9699	9663														
10	9557	9464	9606	9587														
15	9370	9256	9440	9445														
20	9112	8979	9205	9231														
25	8782	8629	8897	8948														
30	8377	8203	8520	8591														
35	7893	7701	8063	8159														
40	7326	7113	7528	7650														
45	6674	6439	6910	7059														
50	5936	5681	6206	6382														
55	5109	4835	5418	5622														
60	4177	3884	4554	4779														
65	3198	2896	3587	3831														
70	2187	1892	2595	2848														
75	1227	994	1604	1857														
80	483	312	747	950														
85	123	112	160	271														
90	106	104	60.2	59.5														
95	98.7	96.8	61.2	60.1														
100	93.3	92.7	64.6	63.2														
105	91.9	92.5	70.6	68.5														
110	93.4	94.8	78.4	76.2														
115	96.5	98.4	86.5	84.4														
120	101	103	94.5	92.5														
125	106	108	102	101														
130	112	114	111	109														
135	118	120	119	117														
140	124	127	127	125														
145	130	133	134	132														
150	137	139	139	138														
155	142	145	145	143														
160	148	150	149	148														
165	152	154	153	152														
170	155	157	156	155														
175	158	159	158	158														
180	159	160	159	159														

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: