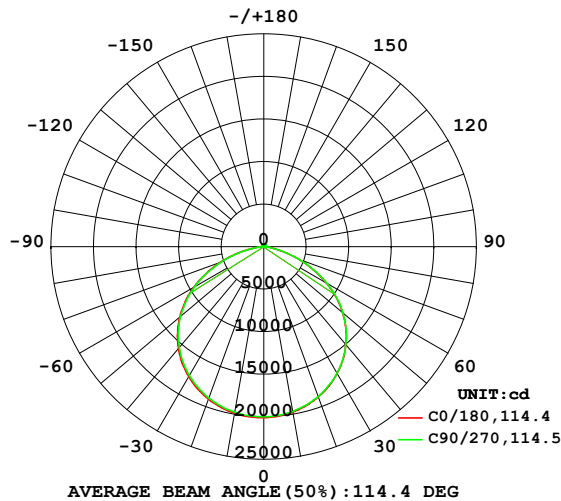


LUMINAIRE PHOTOMETRIC TEST REPORT

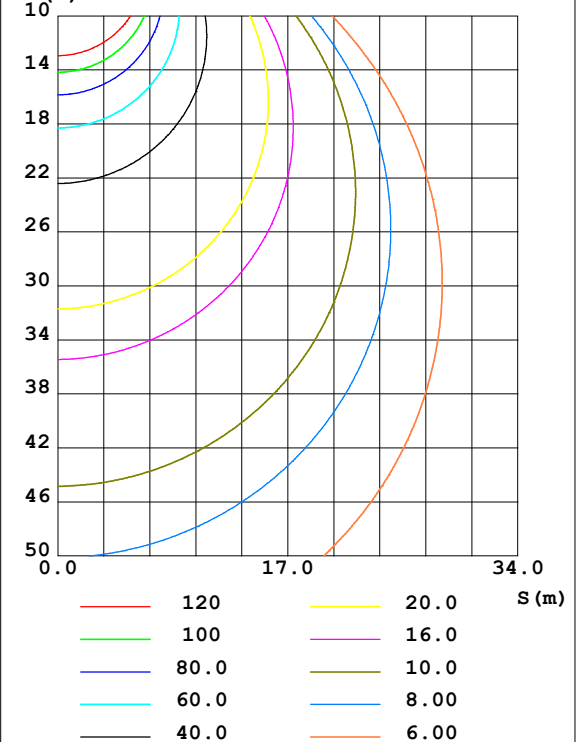
Test:U:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 195.41 lm/W			
MODEL		I _{max} (cd)	20106	S/MH (C0/180)	1.30
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	58286	η UP, DN (C0-180)	1.2, 47.2
NOMINAL FLUX (lm)	58285.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 50.4
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	1974	1966	1988	1976					0- 10	1900	1900	3.26, 3.26
20	1879	1873	1906	1893					10- 20	5477	7377	12.7, 12.7
30	1723	1720	1765	1751					20- 30	8398	15774	27.1, 27.1
40	1503	1503	1561	1546					30- 40	10272	26046	44.7, 44.7
50	1212	1216	1290	1276					40- 50	10767	36813	63.2, 63.2
60	845.5	853.9	947.6	935.5					50- 60	9643	46456	79.7, 79.7
70	438.3	446.2	545.4	534.7					60- 70	6865	53321	91.5, 91.5
80	89.70	94.17	156.3	152.9					70- 80	3128	56449	96.8, 96.8
90	21.83	21.88	12.35	12.29					80- 90	489.0	56938	97.7, 97.7
100	19.19	19.23	13.22	13.26					90-100	179.9	57118	98, 98
110	19.29	19.31	16.09	16.19					100-110	177.8	57295	98.3, 98.3
120	20.86	20.86	19.38	19.49					110-120	187.5	57483	98.6, 98.6
130	23.04	23.05	22.47	22.56					120-130	192.1	57675	99, 99
140	25.54	25.55	25.65	25.70					130-140	187.1	57862	99.3, 99.3
150	28.14	28.16	28.33	28.33					140-150	169.0	58031	99.6, 99.6
160	30.41	30.41	30.44	30.38					150-160	135.7	58167	99.8, 99.8
170	31.96	31.95	31.90	31.79					160-170	88.26	58255	99.9, 99.9
180	32.49	32.52	32.60	32.43					170-180	30.72	58286	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 31465 lm

%lum = 54.0%

%lamp = 54.0%

Conical surface Flux(120deg): 46456 lm

%lum = 79.7%

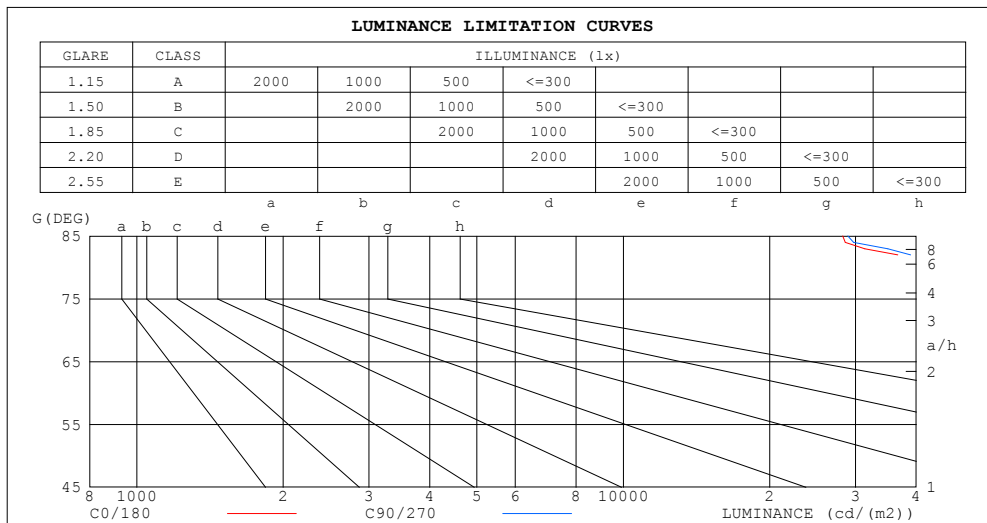
%lamp = 79.7%

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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	28239	28943
80	51653	54229
75	93453	96918
70	128137	130451
65	151837	153767
60	169099	170790
55	181174	182194
50	188621	189239
45	193245	193543

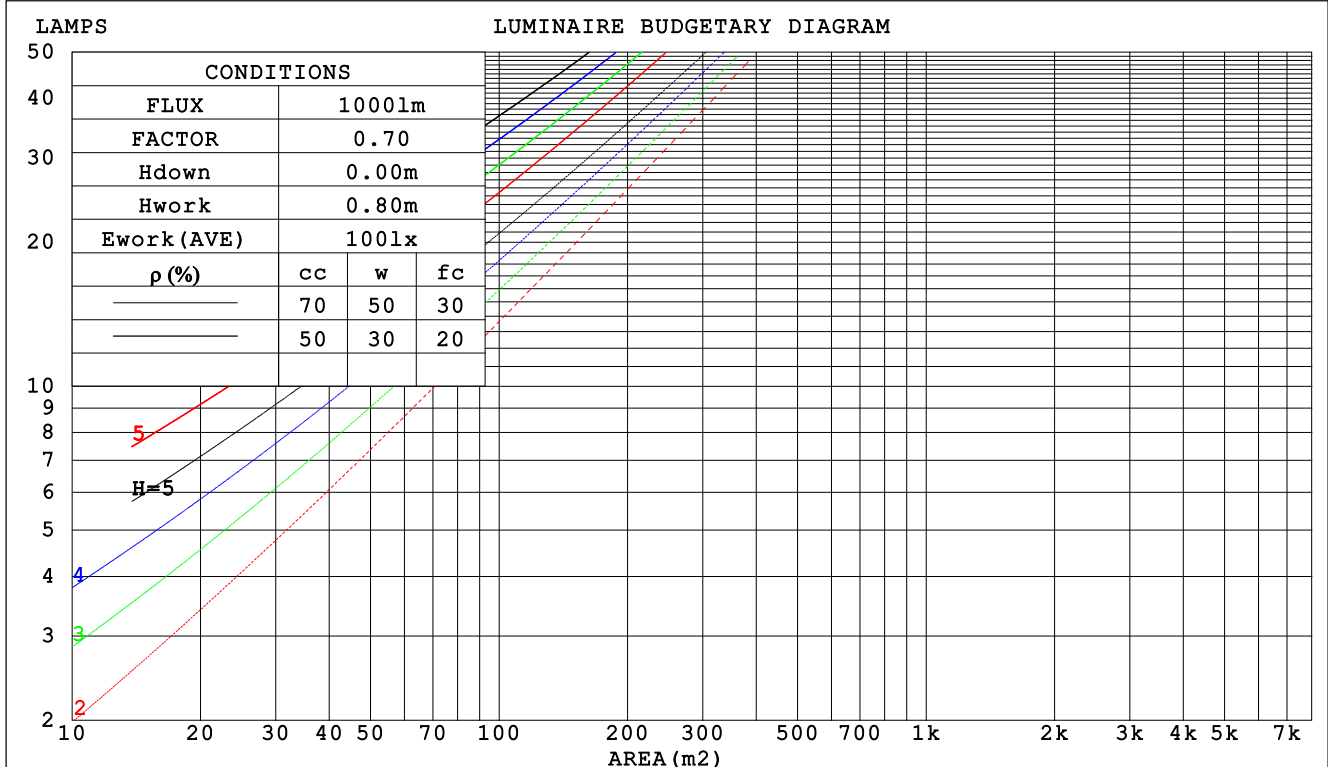
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 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	.57	.52	.50
5.0	.63	.54	.48	.62	.54	.48	.60	.52	.47	.58	.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	.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
 γ 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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 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	.291	.166	.052	.283	.162	.051	.269	.154	.049	.256	.147	.047	.243	.141	.045		
2.0	.279	.153	.047	.273	.150	.046	.260	.144	.045	.248	.139	.044	.237	.134	.042		
3.0	.261	.139	.042	.255	.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	.113	.033	.212	.110	.032	.203	.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	.093	.027	.178	.091	.027	.172	.089	.026		
8.0	.183	.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	.059	.053	.021	.019	.017	
2.0	.188	.150	.117	.161	.129	.101	.111	.089	.071	.064	.052	.041	.020	.017	.014	
3.0	.181	.132	.093	.155	.114	.081	.106	.079	.057	.061	.046	.034	.020	.015	.011	
4.0	.173	.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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 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	16.6	18.1	16.9	18.3	18.6
3H	17.7	19.1	18.1	19.3	19.6	17.8	19.1	18.1	19.4	19.7
4H	18.0	19.3	18.3	19.6	19.9	18.1	19.3	18.4	19.6	19.9
6H	18.1	19.3	18.4	19.6	19.9	18.1	19.3	18.5	19.6	20.0
8H	18.0	19.2	18.4	19.5	19.8	18.1	19.3	18.5	19.6	19.9
12H	18.0	19.1	18.4	19.4	19.8	18.1	19.2	18.4	19.5	19.9
4H 2H	17.1	18.4	17.5	18.7	19.0	17.1	18.4	17.5	18.7	19.0
3H	18.4	19.5	18.7	19.8	20.2	18.4	19.5	18.8	19.8	20.2
4H	18.7	19.7	19.1	20.1	20.5	18.8	19.8	19.2	20.1	20.5
6H	18.8	19.7	19.2	20.1	20.5	18.9	19.8	19.3	20.2	20.6
8H	18.8	19.6	19.2	20.0	20.5	18.9	19.7	19.3	20.1	20.5
12H	18.8	19.5	19.2	20.0	20.4	18.8	19.6	19.3	20.0	20.5
8H 4H	18.8	19.6	19.2	20.0	20.5	18.8	19.7	19.3	20.1	20.5
6H	18.9	19.6	19.4	20.1	20.5	19.0	19.7	19.5	20.1	20.6
8H	18.9	19.5	19.4	20.0	20.5	19.0	19.6	19.5	20.1	20.6
12H	18.9	19.4	19.4	19.9	20.5	19.0	19.5	19.5	20.0	20.5
12H 4H	18.8	19.5	19.2	19.9	20.4	18.8	19.6	19.3	20.0	20.4
6H	18.9	19.5	19.4	20.0	20.5	19.0	19.6	19.5	20.0	20.5
8H	18.9	19.4	19.4	19.9	20.5	19.0	19.5	19.5	20.0	20.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 58286 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 14.1)
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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

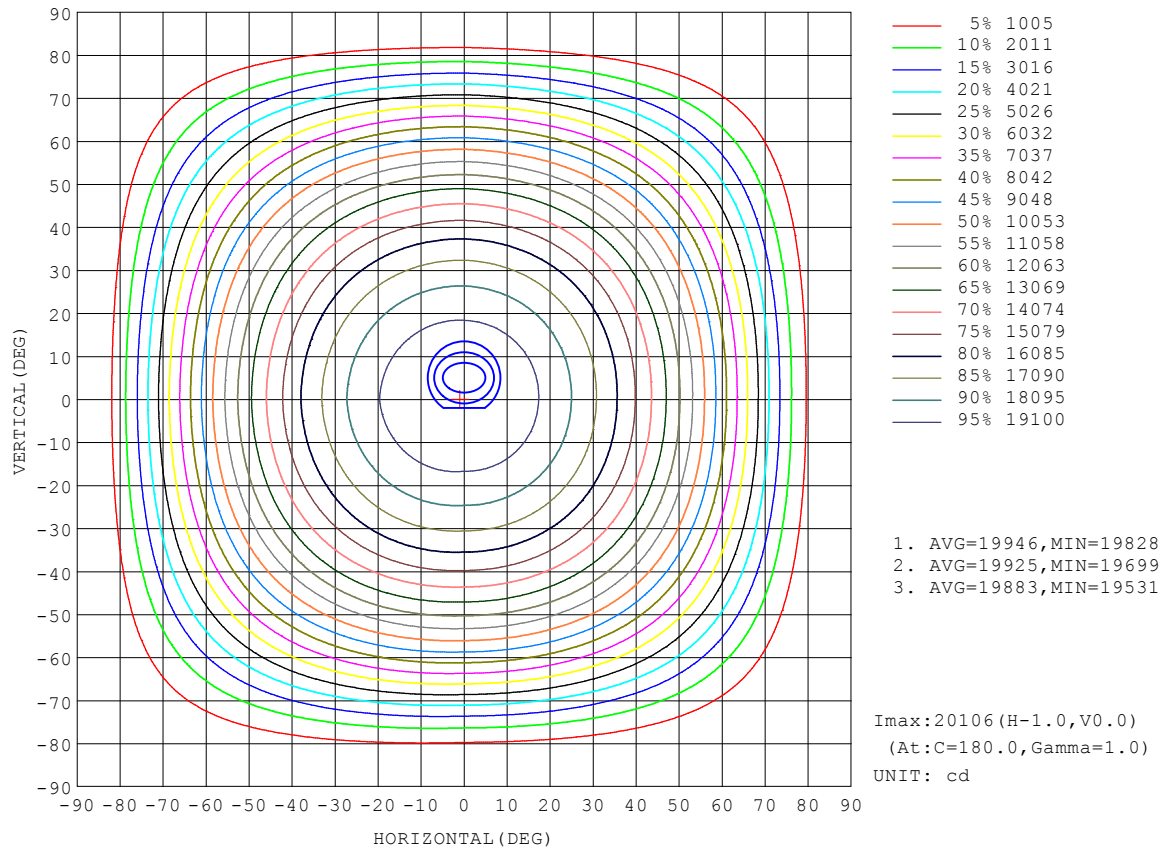
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	39	55	45	38	32
0.80	68	56	49	66	56	49	64	55	48	41
1.00	76	65	58	75	65	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	90	83	78	70
2.50	99	92	86	97	90	85	93	87	83	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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

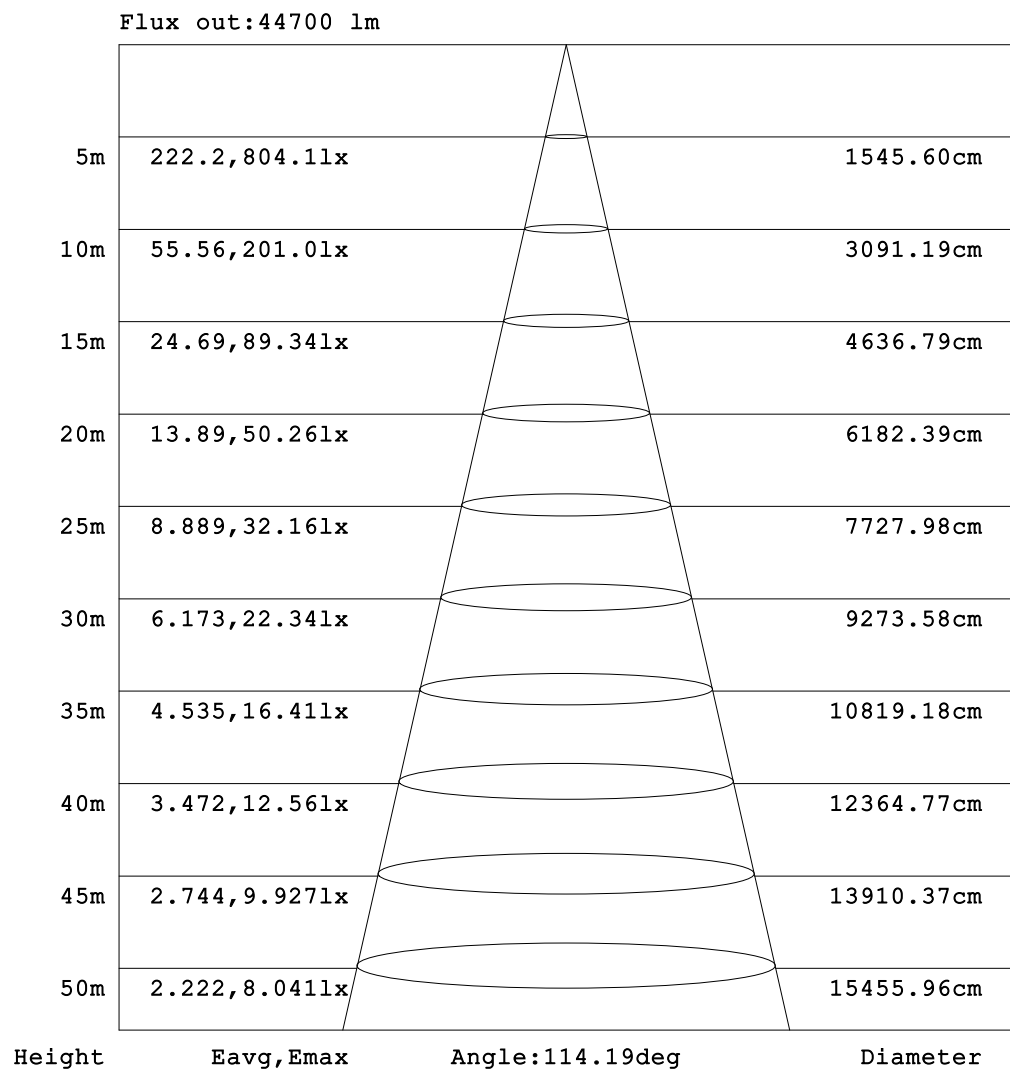


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



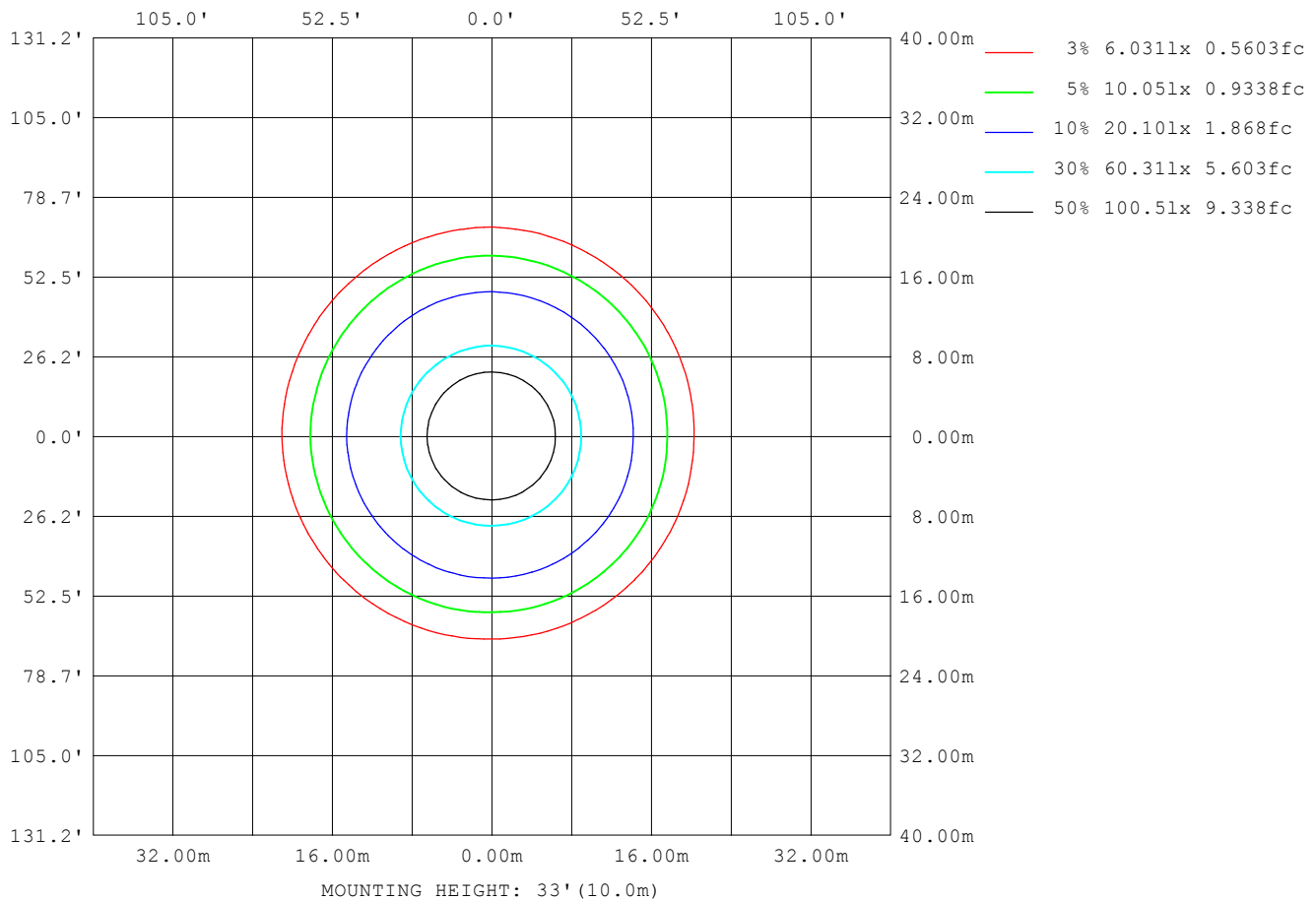
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

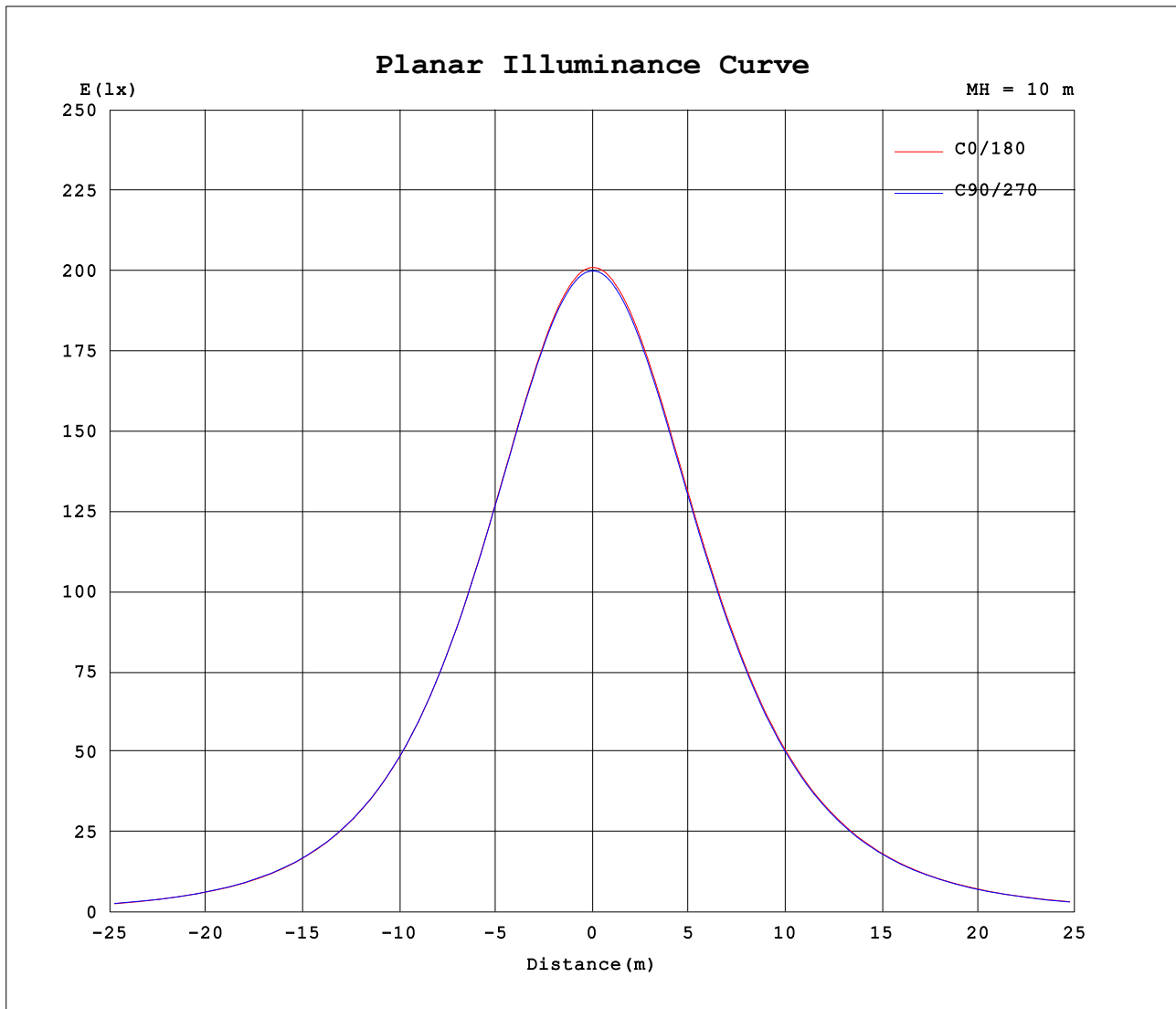
AvgL	cd/m2
L_0~180 (65) av	164551
L_0~180 (75) av	113043
L_0~180 (85) av	36807
L_90~270 (65) av	164199
L_90~270 (75) av	113142
L_90~270 (85) av	34172
L_45 (65) av	165126
L_45 (75) av	114329
L_45 (85) av	35696

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:218.67V I:1.3822A P:298.28W PF:0.9869 Freq:49.99Hz Lamp Flux:58285.7x1 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	2010	2000	2010	2000															
5	2000	1990	2006	1995															
10	1974	1966	1988	1976															
15	1934	1927	1954	1942															
20	1879	1873	1906	1893															
25	1809	1804	1843	1829															
30	1723	1720	1765	1751															
35	1621	1620	1672	1656															
40	1503	1503	1561	1546															
45	1366	1369	1434	1420															
50	1212	1216	1290	1276															
55	1039	1045	1127	1115															
60	845	854	948	936															
65	642	650	749	738															
70	438	446	545	535															
75	242	251	343	335															
80	89.7	94.2	156	153															
85	24.6	25.2	39.5	34.3															
90	21.8	21.9	12.3	12.3															
95	20.3	20.3	12.5	12.5															
100	19.2	19.2	13.2	13.3															
105	18.9	19.0	14.5	14.5															
110	19.3	19.3	16.1	16.2															
115	20.0	20.0	17.8	17.9															
120	20.9	20.9	19.4	19.5															
125	21.9	21.9	20.9	21.0															
130	23.0	23.0	22.5	22.6															
135	24.3	24.3	24.1	24.2															
140	25.5	25.5	25.7	25.7															
145	26.9	26.9	27.1	27.1															
150	28.1	28.2	28.3	28.3															
155	29.3	29.4	29.5	29.4															
160	30.4	30.4	30.4	30.4															
165	31.3	31.3	31.2	31.2															
170	32.0	32.0	31.9	31.8															
175	32.4	32.4	32.4	32.2															
180	32.5	32.5	32.6	32.4															

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: