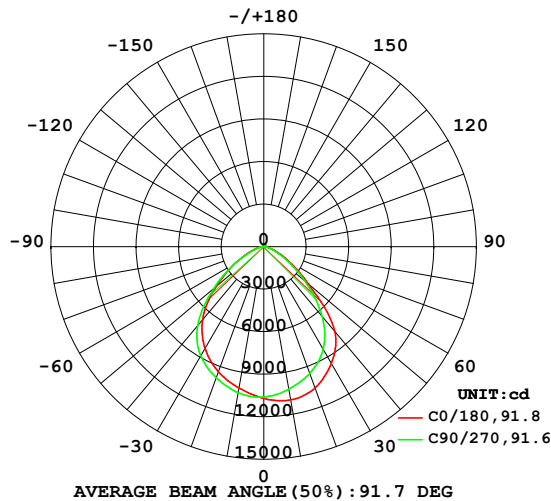


LUMINAIRE PHOTOMETRIC TEST REPORT

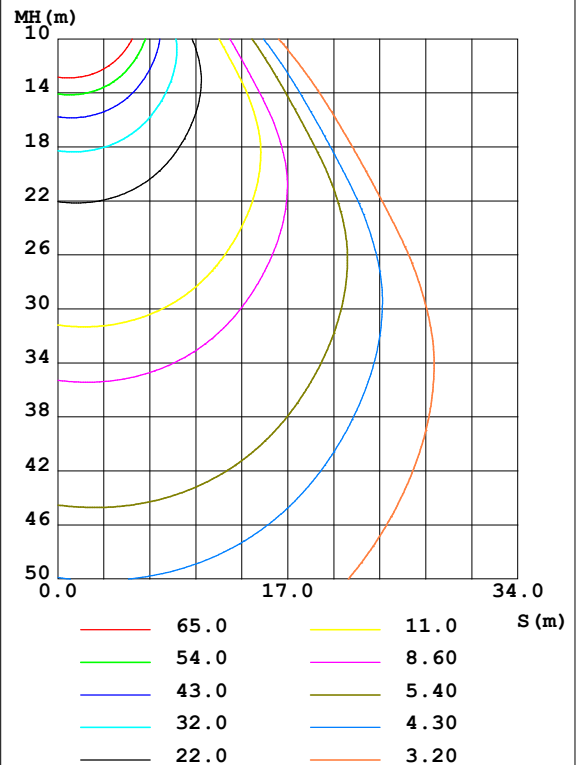
Test:U:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.76 lm/W			
MODEL		I _{max} (cd)	10970	S/MH (C0/180)	1.16
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	22823	η UP,DN(C0-180)	1.2,48.3
NOMINAL FLUX(lm)	22823.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,49.4
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down (%)	97.7	CIBSE SHR MAX	1.30

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: 2024-12-17

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	1097	1021	1012	1046					0- 10	1007	1007	4.41, 4.41
20	1060	950.9	938.9	983.6					10- 20	2874	3880	17, 17
30	952.2	837.0	829.4	889.6					20- 30	4310	8190	35.9, 35.9
40	780.4	640.7	671.5	724.7					30- 40	4994	13184	57.8, 57.8
50	413.1	380.9	437.3	461.4					40- 50	4358	17543	76.9, 76.9
60	197.3	177.4	229.2	227.0					50- 60	2751	20293	88.9, 88.9
70	77.58	73.62	93.74	85.15					60- 70	1348	21641	94.8, 94.8
80	22.90	19.97	27.31	27.84					70- 80	536.5	22178	97.2, 97.2
90	7.236	6.929	4.275	4.110					80- 90	116.3	22294	97.7, 97.7
100	6.383	6.263	5.014	4.805					90-100	60.65	22354	97.9, 97.9
110	6.606	6.669	6.226	5.923					100-110	62.73	22417	98.2, 98.2
120	7.500	7.732	7.736	7.332					110-120	68.75	22486	98.5, 98.5
130	8.801	9.136	9.490	8.934					120-130	74.43	22560	98.8, 98.8
140	10.31	10.69	11.26	10.55					130-140	76.51	22637	99.2, 99.2
150	11.87	12.21	12.82	12.09					140-150	71.94	22709	99.5, 99.5
160	13.38	13.59	14.19	13.44					150-160	59.80	22769	99.8, 99.8
170	14.62	14.62	15.21	14.51					160-170	40.19	22809	99.9, 99.9
180	15.32	15.09	15.45	14.99					170-180	14.28	22823	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 15549 lm

%lum = 68.1%

%lamp = 68.1%

Conical surface Flux(120deg): 20293 lm

%lum = 88.9%

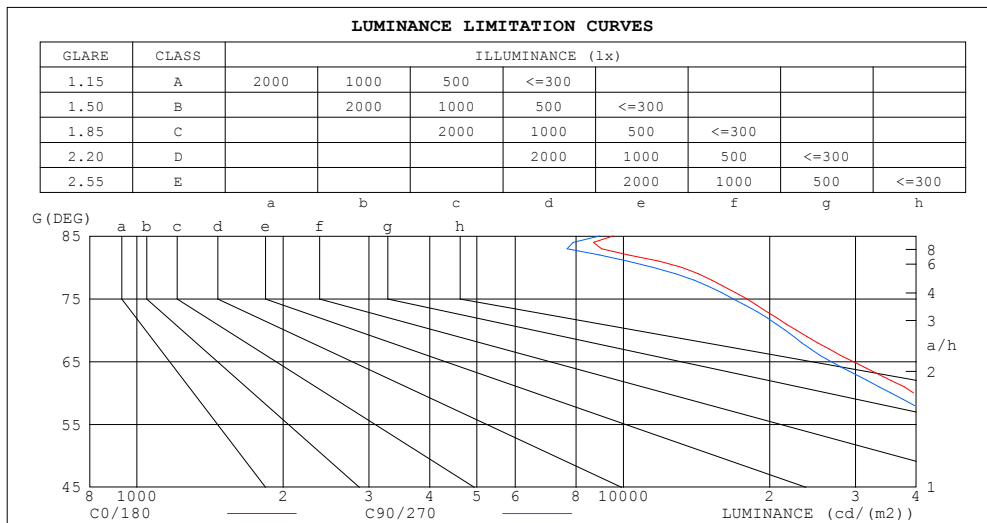
%lamp = 88.9%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9530	8945
80	13190	11503
75	17919	16806
70	22684	21524
65	29670	26714
60	39460	35480
55	50974	46671
50	64268	59265
45	85729	71978

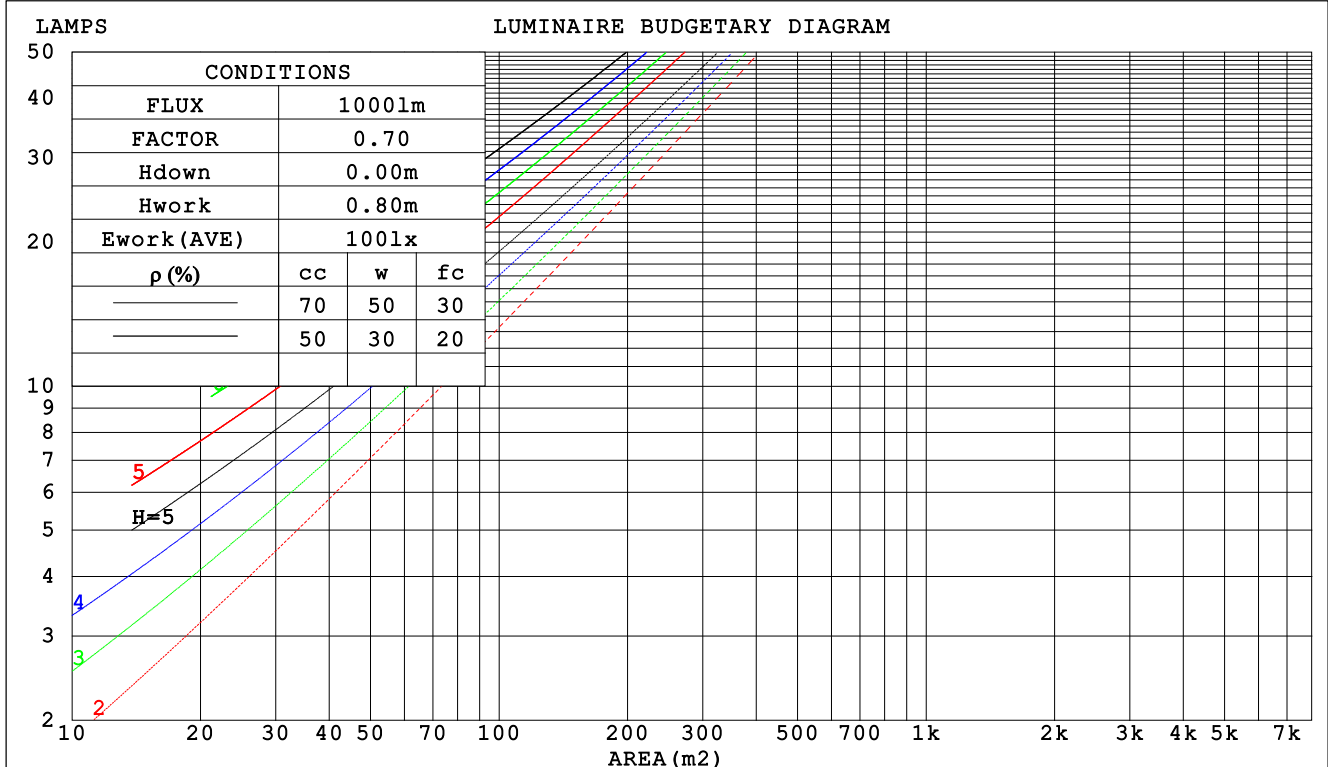
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 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	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.95	.95	.93	.91	.91	.90	.88	.86
2.0	.95	.89	.85	.93	.88	.84	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.73	.84	.77	.72	.80	.75	.70	.77	.73	.69	.75	.71	.68	.66
4.0	.77	.69	.63	.75	.68	.63	.73	.67	.62	.70	.65	.61	.68	.63	.60	.58
5.0	.69	.62	.56	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.55	.49	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.42	.37	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 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	.249	.142	.045	.241	.138	.044	.227	.130	.042	.214	.123	.040	.202	.117	.038	
2.0	.241	.132	.041	.234	.129	.040	.222	.123	.038	.210	.118	.037	.200	.113	.036	
3.0	.228	.122	.036	.223	.119	.036	.212	.115	.035	.201	.110	.034	.192	.106	.033	
4.0	.215	.112	.033	.210	.110	.032	.200	.106	.032	.191	.103	.031	.183	.099	.030	
5.0	.202	.103	.030	.198	.101	.030	.189	.098	.029	.181	.095	.028	.173	.093	.028	
6.0	.190	.095	.027	.186	.094	.027	.178	.091	.027	.171	.089	.026	.164	.087	.026	
7.0	.179	.089	.025	.176	.087	.025	.169	.085	.025	.162	.083	.024	.156	.081	.024	
8.0	.169	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	
9.0	.160	.077	.022	.157	.076	.021	.151	.075	.021	.146	.073	.021	.141	.071	.021	
10.0	.151	.073	.020	.149	.072	.020	.144	.070	.020	.139	.069	.020	.134	.067	.019	

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	.194	.174	.157	.166	.150	.135	.113	.103	.093	.065	.060	.054	.021	.019	.018	
2.0	.183	.150	.122	.157	.129	.106	.108	.089	.074	.062	.052	.043	.020	.017	.014	
3.0	.175	.132	.098	.150	.114	.085	.103	.079	.060	.059	.046	.035	.019	.015	.012	
4.0	.167	.118	.081	.143	.102	.071	.098	.071	.050	.057	.042	.029	.018	.014	.010	
5.0	.159	.108	.070	.137	.093	.060	.094	.065	.043	.055	.038	.025	.018	.012	.008	
6.0	.153	.099	.061	.131	.086	.053	.090	.060	.037	.052	.035	.022	.017	.012	.007	
7.0	.146	.092	.054	.126	.080	.047	.087	.056	.033	.051	.033	.020	.016	.011	.007	
8.0	.140	.086	.049	.121	.075	.043	.084	.053	.030	.049	.031	.018	.016	.010	.006	
9.0	.135	.081	.045	.116	.071	.039	.081	.050	.028	.047	.029	.017	.015	.010	.006	
10.0	.130	.077	.042	.112	.067	.037	.078	.047	.026	.045	.028	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 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	15.0	16.3	15.3	16.5	16.8	14.5	15.8	14.8	16.1	16.3
3H	15.3	16.5	15.6	16.8	17.0	14.8	16.0	15.2	16.3	16.6
4H	15.4	16.5	15.7	16.8	17.1	14.9	16.0	15.3	16.3	16.6
6H	15.4	16.4	15.7	16.7	17.1	14.9	16.0	15.3	16.3	16.6
8H	15.4	16.4	15.7	16.7	17.0	14.9	15.9	15.3	16.2	16.6
12H	15.3	16.3	15.7	16.6	17.0	14.9	15.8	15.2	16.2	16.5
4H 2H	15.1	16.2	15.4	16.5	16.8	14.6	15.8	15.0	16.1	16.4
3H	15.5	16.5	15.9	16.8	17.1	15.1	16.1	15.5	16.4	16.7
4H	15.6	16.5	16.0	16.9	17.2	15.2	16.1	15.6	16.5	16.9
6H	15.7	16.5	16.1	16.9	17.3	15.3	16.1	15.7	16.5	16.9
8H	15.7	16.4	16.1	16.8	17.2	15.3	16.0	15.7	16.4	16.8
12H	15.7	16.3	16.1	16.7	17.2	15.3	15.9	15.7	16.3	16.8
8H 4H	15.6	16.3	16.1	16.7	17.2	15.2	16.0	15.7	16.4	16.8
6H	15.7	16.3	16.2	16.8	17.2	15.4	15.9	15.8	16.4	16.9
8H	15.7	16.3	16.2	16.7	17.2	15.4	15.9	15.8	16.3	16.8
12H	15.7	16.2	16.2	16.7	17.2	15.3	15.8	15.9	16.3	16.8
12H 4H	15.6	16.2	16.0	16.7	17.1	15.2	15.9	15.7	16.3	16.7
6H	15.7	16.2	16.2	16.7	17.2	15.3	15.8	15.8	16.3	16.8
8H	15.7	16.2	16.2	16.6	17.2	15.3	15.8	15.8	16.3	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.1					+ 0.9 / - 1.1				
1.5H	+ 0.6 / - 0.7					+ 0.4 / - 0.5				
2.0H	+ 2.1 / - 1.8					+ 1.8 / - 1.7				

CIE Pub.117, 22823 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.9)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

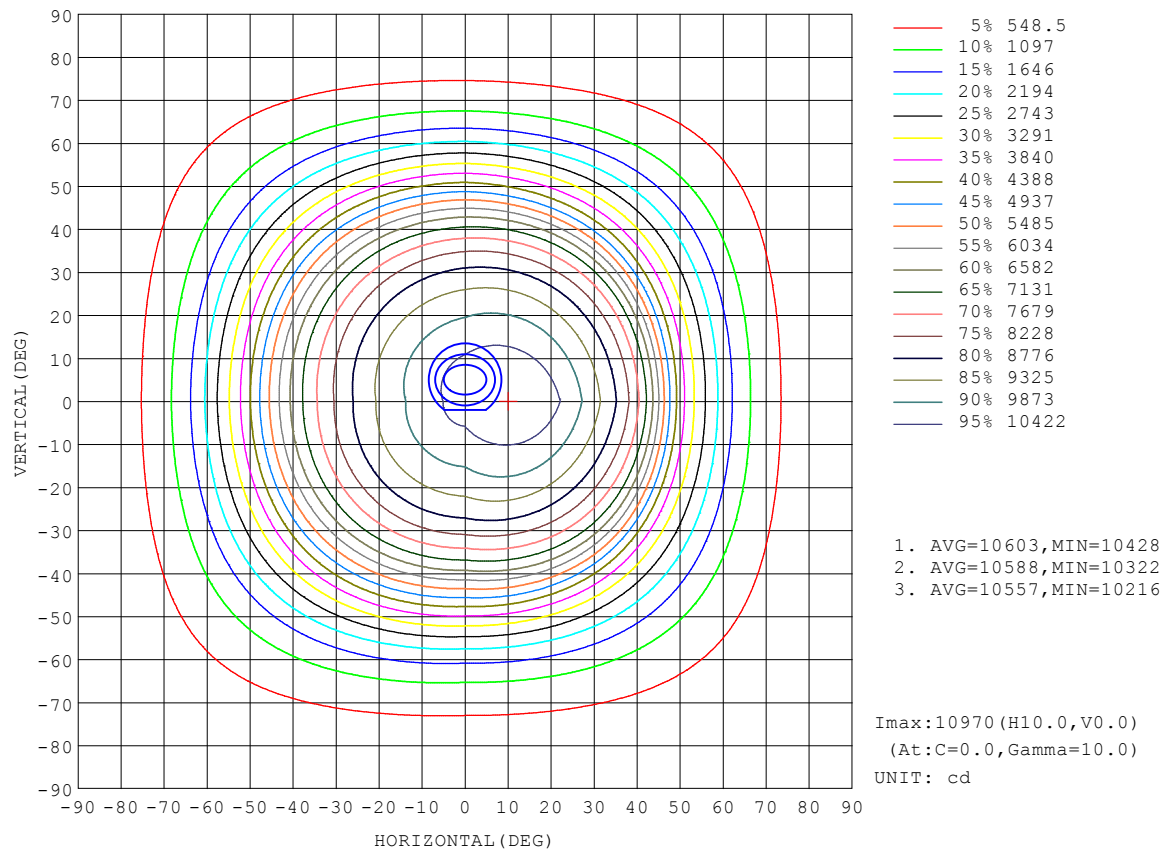
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	54	48	63	54	48	42
0.80	75	65	59	74	65	59	72	64	58	52
1.00	83	74	68	82	73	67	80	74	67	60
1.25	90	81	75	88	80	75	85	79	74	67
1.50	94	86	80	92	85	80	89	83	78	72
2.00	100	93	88	98	92	87	94	89	85	78
2.50	103	96	92	101	95	91	97	92	88	81
3.00	105	100	96	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	98	96	87
5.00	110	107	103	108	104	101	103	100	98	89
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: 2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

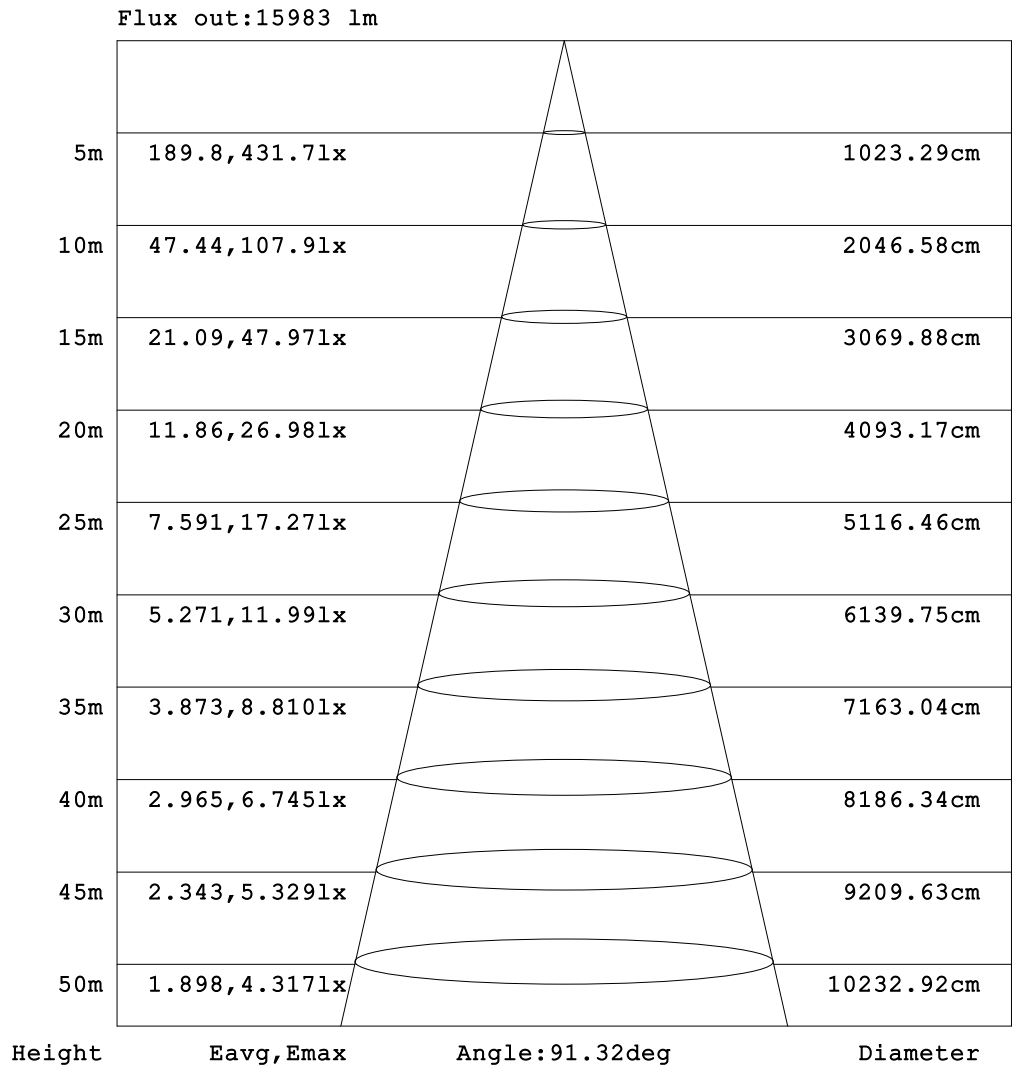


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



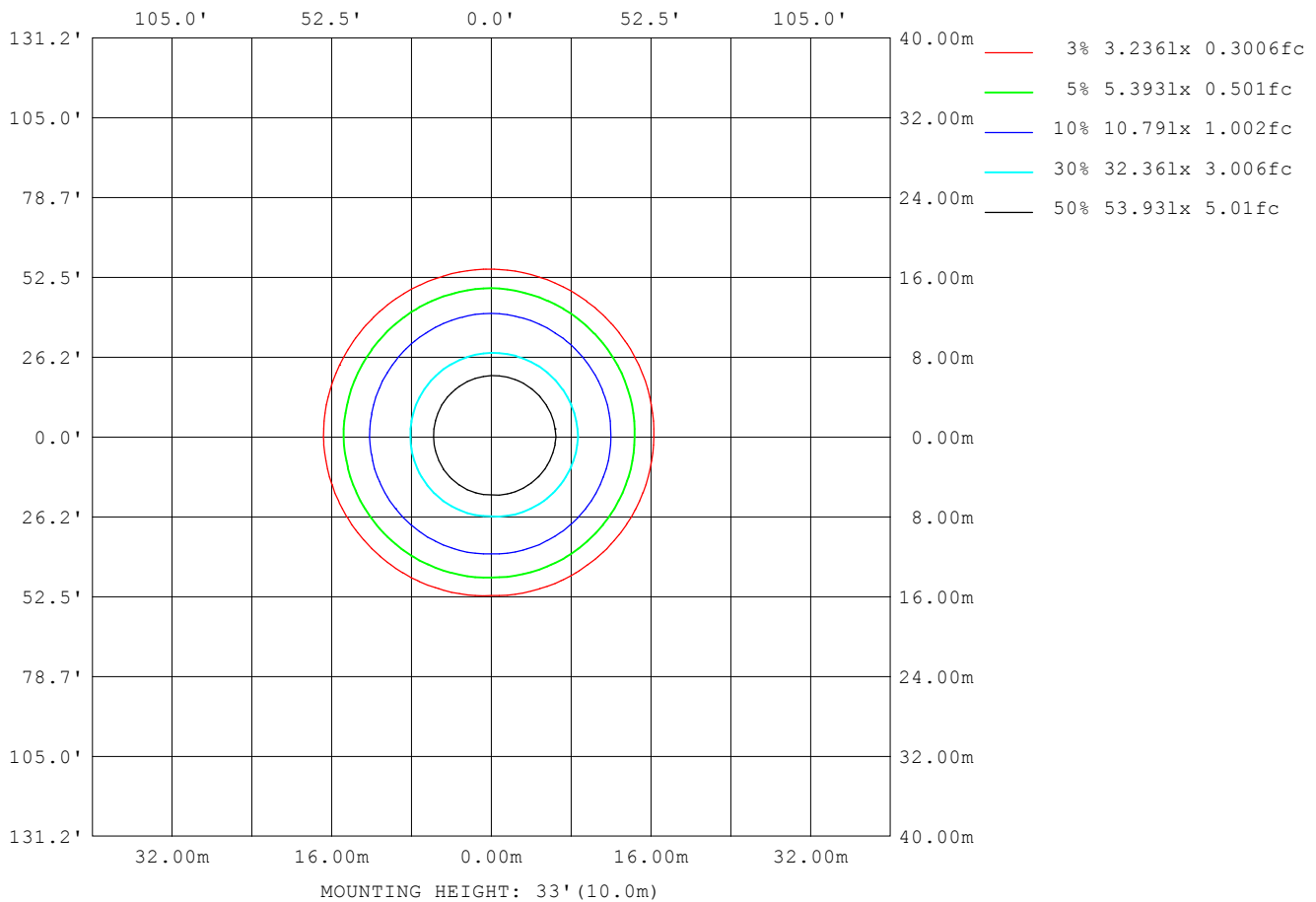
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 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:2024-12-17

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:

LED Avg.L Report

Test:U:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

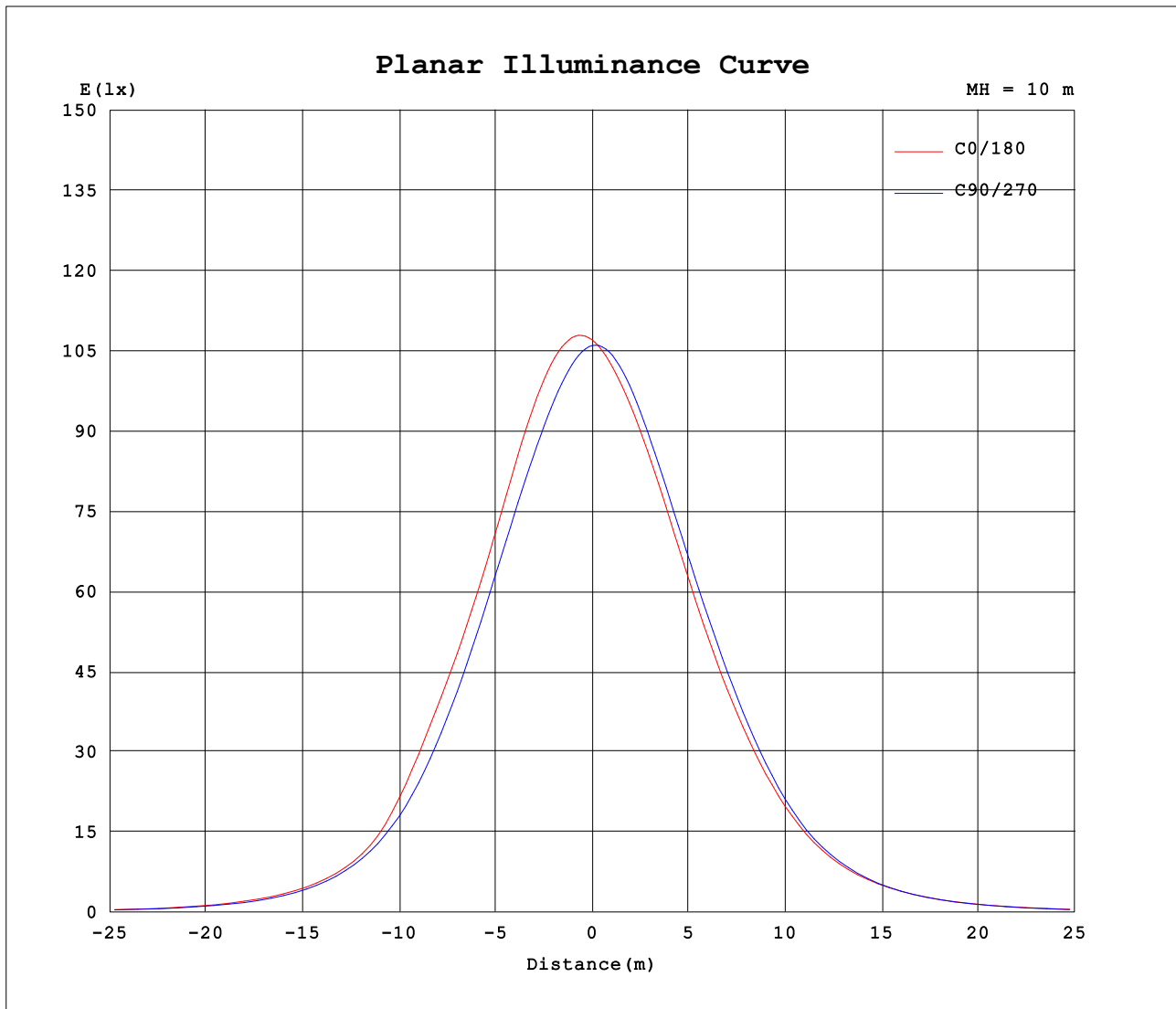
AvgL	cd/m2
L_0~180 (65) av	32382
L_0~180 (75) av	19901
L_0~180 (85) av	8814
L_90~270 (65) av	30054
L_90~270 (75) av	18504
L_90~270 (85) av	9713
L_45 (65) av	31096
L_45 (75) av	19151
L_45 (85) av	9331

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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: 2024-12-17

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:218.71V I:0.7165A P:150.39W PF:0.9596 Freq:58.98Hz Lamp Flux:22823.1x1 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	1071	1060	1071	1060														
5	1090	1046	1043	1061														
10	1097	1021	1012	1046														
15	1088	989	979	1019														
20	1060	951	939	984														
25	1013	903	889	942														
30	952	837	829	890														
35	881	752	759	820														
40	780	641	671	725														
45	606	509	562	600														
50	413	381	437	461														
55	292	268	326	336														
60	197	177	229	227														
65	125	113	148	141														
70	77.6	73.6	93.7	85.2														
75	46.4	43.5	56.6	52.3														
80	22.9	20.0	27.3	27.8														
85	8.31	7.80	7.06	9.14														
90	7.24	6.93	4.27	4.11														
95	6.67	6.46	4.58	4.39														
100	6.38	6.26	5.01	4.81														
105	6.38	6.36	5.57	5.31														
110	6.61	6.67	6.23	5.92														
115	6.98	7.13	6.95	6.60														
120	7.50	7.73	7.74	7.33														
125	8.11	8.41	8.57	8.11														
130	8.80	9.14	9.49	8.93														
135	9.55	9.91	10.4	9.76														
140	10.3	10.7	11.3	10.6														
145	11.1	11.5	12.1	11.3														
150	11.9	12.2	12.8	12.1														
155	12.6	12.9	13.5	12.8														
160	13.4	13.6	14.2	13.4														
165	14.1	14.2	14.8	14.0														
170	14.6	14.6	15.2	14.5														
175	15.1	15.0	15.4	14.9														
180	15.3	15.1	15.5	15.0														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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: