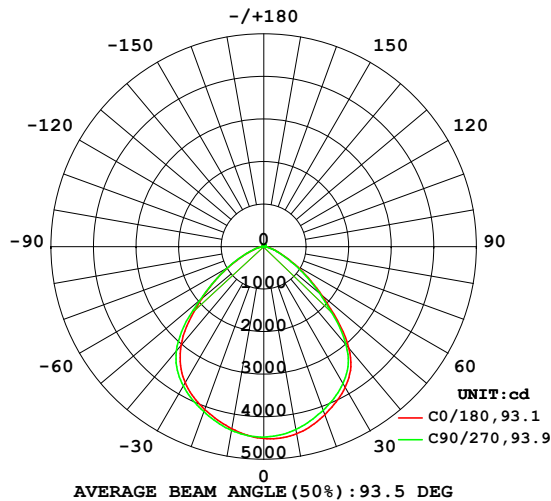


LUMINAIRE PHOTOMETRIC TEST REPORT

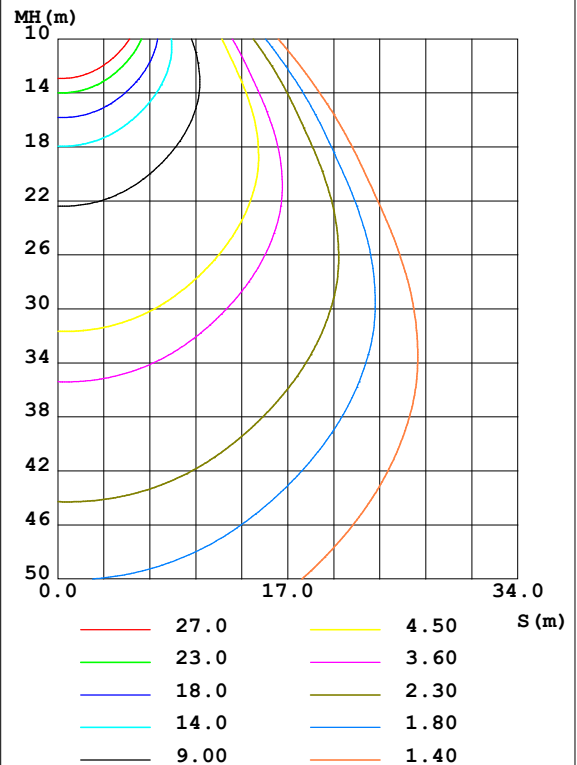
Test:U:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.42 lm/W			
MODEL		I _{max} (cd)	4518	S/MH (C0/180)	1.22
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	9775.8	η UP,DN(C0-180)	1.2,48.1
NOMINAL FLUX(lm)	9775.78	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,49.6
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:2024-12-17

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	4464	4363	4346	4385					0- 10	423.8	423.8	4.34, 4.34
20	4201	4092	4073	4128					10- 20	1205	1629	16.7, 16.7
30	3827	3722	3693	3785					20- 30	1824	3453	35.3, 35.3
40	3111	3008	3025	3196					30- 40	2169	5621	57.5, 57.5
50	1795	1719	1903	1968					40- 50	1906	7527	77, 77
60	854.2	819.0	949.0	967.3					50- 60	1198	8725	89.3, 89.3
70	323.2	305.6	339.4	350.5					60- 70	569.3	9295	95.1, 95.1
80	89.57	79.35	96.57	103.5					70- 80	208.8	9504	97.2, 97.2
90	30.33	29.79	17.84	17.46					80- 90	44.35	9548	97.7, 97.7
100	26.85	26.62	21.14	20.63					90-100	25.68	9574	97.9, 97.9
110	28.16	28.43	26.35	25.73					100-110	26.70	9600	98.2, 98.2
120	32.52	32.95	32.78	32.04					110-120	29.49	9630	98.5, 98.5
130	38.62	39.17	40.10	39.11					120-130	32.07	9662	98.8, 98.8
140	45.51	46.13	47.67	46.43					130-140	33.11	9695	99.2, 99.2
150	52.31	52.74	54.48	53.06					140-150	31.23	9726	99.5, 99.5
160	58.43	58.68	60.78	59.23					150-160	25.96	9752	99.8, 99.8
170	63.38	63.27	65.48	63.97					160-170	17.46	9770	99.9, 99.9
180	66.52	66.10	66.97	65.74					170-180	6.210	9776	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6657.4 lm

%lum = 68.1%

%lamp = 68.1%

Conical surface Flux(120deg): 8725.4 lm

%lum = 89.3%

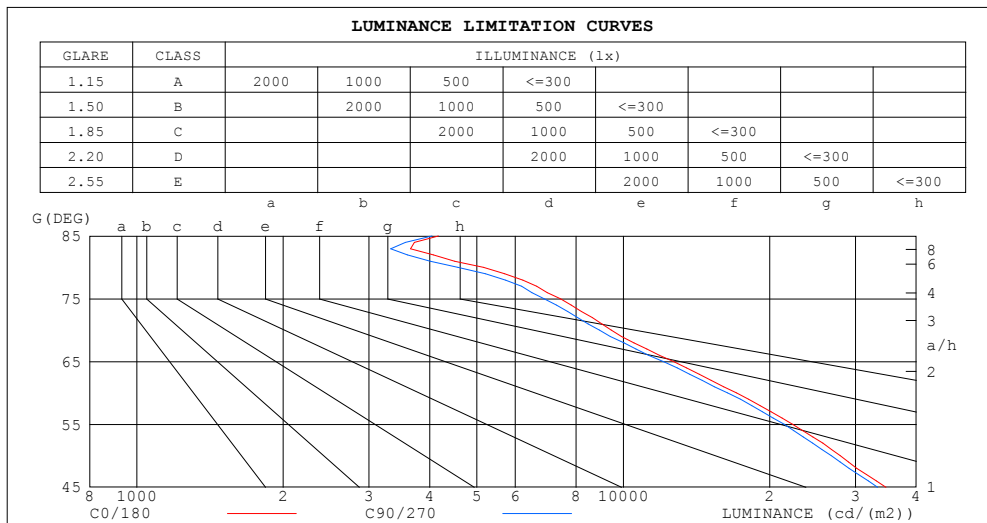
%lamp = 89.3%

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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4168	4044
80	5158	4570
75	7423	6874
70	9450	8935
65	12684	12082
60	17085	16379
55	22277	21416
50	27918	26749
45	34639	33345

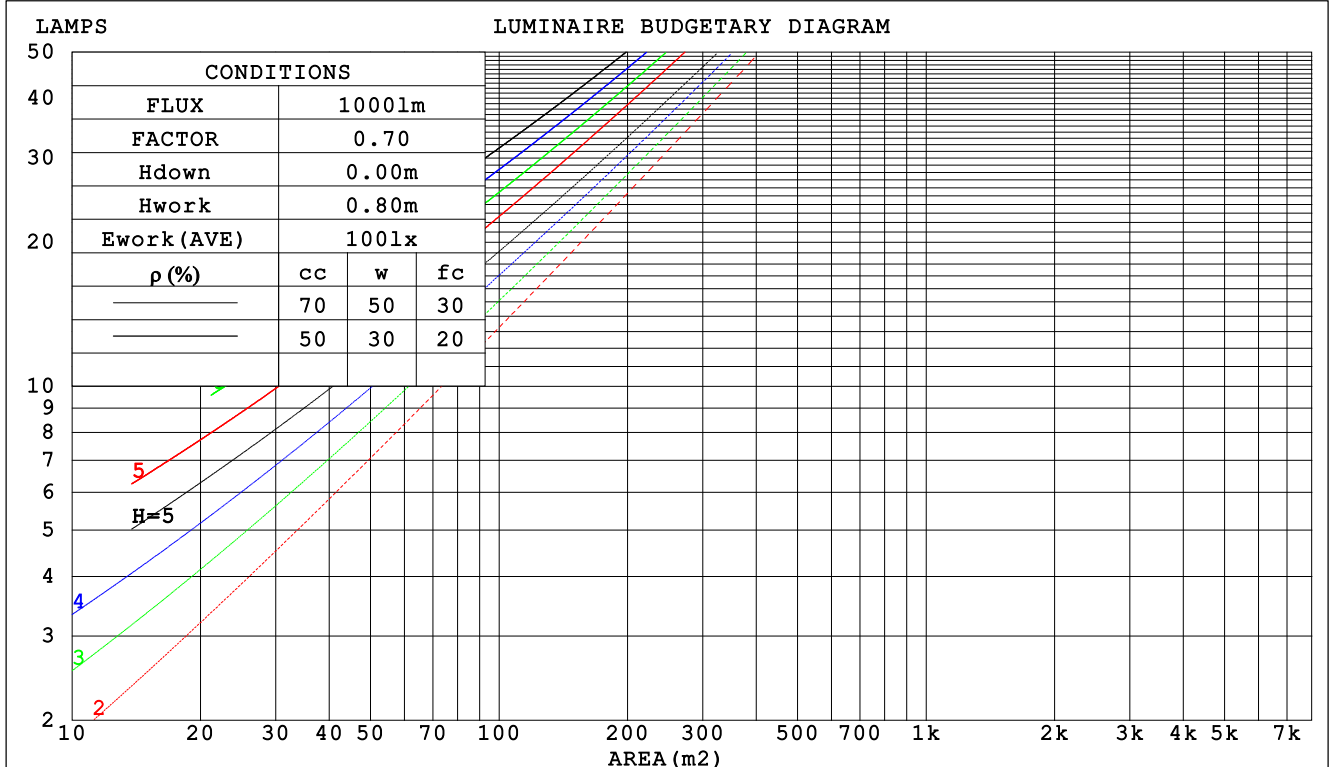
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 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	1.07	1.03	.00	1.04	1.01	.98	.00	.97	.95	.95	.93	.91	.91	.90	.88	.86
2.0	.95	.90	.85	.93	.88	.84	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.73	.84	.77	.72	.80	.75	.71	.78	.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	.61	.56	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.53	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.40	.52	.45	.39	.51	.44	.39	.49	.43	.39	.48	.42	.38	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.35	.46	.40	.35	.44	.39	.35	.33
10.0	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 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	.248	.141	.045	.240	.137	.044	.226	.130	.041	.213	.123	.039	.201	.116	.038		
2.0	.240	.132	.040	.234	.129	.040	.221	.123	.038	.210	.118	.037	.199	.113	.036		
3.0	.228	.121	.036	.222	.119	.036	.211	.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	.203	.103	.030	.198	.102	.030	.189	.099	.029	.181	.096	.028	.174	.093	.028		
6.0	.191	.096	.027	.187	.094	.027	.179	.092	.027	.171	.089	.026	.165	.087	.026		
7.0	.180	.089	.025	.176	.088	.025	.169	.085	.025	.162	.083	.024	.156	.081	.024		
8.0	.170	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022		
9.0	.160	.078	.022	.157	.077	.022	.152	.075	.021	.146	.073	.021	.141	.072	.021		
10.0	.152	.073	.020	.149	.072	.020	.144	.070	.020	.139	.069	.020	.134	.068	.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	.175	.157	.166	.150	.135	.113	.103	.094	.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	.082	.143	.102	.071	.098	.071	.050	.057	.042	.030	.018	.014	.010		
5.0	.159	.108	.070	.137	.093	.061	.094	.065	.043	.055	.038	.025	.018	.012	.008		
6.0	.153	.099	.061	.131	.086	.053	.091	.060	.037	.053	.035	.022	.017	.012	.007		
7.0	.147	.092	.054	.126	.080	.047	.087	.056	.033	.051	.033	.020	.016	.011	.007		
8.0	.141	.086	.049	.121	.075	.043	.084	.053	.030	.049	.031	.018	.016	.010	.006		
9.0	.135	.082	.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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 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	14.8	16.2	15.1	16.4	16.6
3H	15.3	16.5	15.6	16.8	17.0	15.1	16.3	15.4	16.6	16.9
4H	15.4	16.5	15.7	16.8	17.1	15.2	16.3	15.5	16.6	16.9
6H	15.4	16.4	15.7	16.7	17.0	15.2	16.2	15.5	16.5	16.8
8H	15.3	16.3	15.7	16.7	17.0	15.1	16.2	15.5	16.5	16.8
12H	15.3	16.3	15.7	16.6	16.9	15.1	16.1	15.5	16.4	16.7
4H 2H	15.1	16.2	15.4	16.5	16.8	15.0	16.1	15.3	16.4	16.7
3H	15.5	16.5	15.9	16.8	17.1	15.4	16.3	15.7	16.7	17.0
4H	15.6	16.5	16.0	16.9	17.2	15.5	16.4	15.9	16.7	17.1
6H	15.7	16.5	16.1	16.8	17.2	15.5	16.3	15.9	16.7	17.1
8H	15.7	16.4	16.1	16.8	17.2	15.5	16.2	15.9	16.6	17.0
12H	15.6	16.3	16.1	16.7	17.2	15.5	16.1	15.9	16.5	17.0
8H 4H	15.6	16.3	16.0	16.7	17.1	15.4	16.2	15.9	16.6	17.0
6H	15.7	16.3	16.2	16.7	17.2	15.5	16.1	16.0	16.6	17.0
8H	15.7	16.2	16.2	16.7	17.2	15.5	16.0	16.0	16.5	17.0
12H	15.7	16.1	16.2	16.6	17.1	15.5	16.0	16.0	16.4	17.0
12H 4H	15.6	16.2	16.0	16.6	17.1	15.4	16.1	15.9	16.5	16.9
6H	15.7	16.2	16.2	16.6	17.1	15.5	16.0	16.0	16.5	17.0
8H	15.7	16.1	16.2	16.6	17.1	15.5	15.9	16.0	16.4	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.1					+ 0.9 / - 1.1				
1.5H	+ 0.4 / - 0.5					+ 0.5 / - 0.5				
2.0H	+ 1.8 / - 1.8					+ 1.8 / - 1.8				

CIE Pub.117, 9776 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.9$)
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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

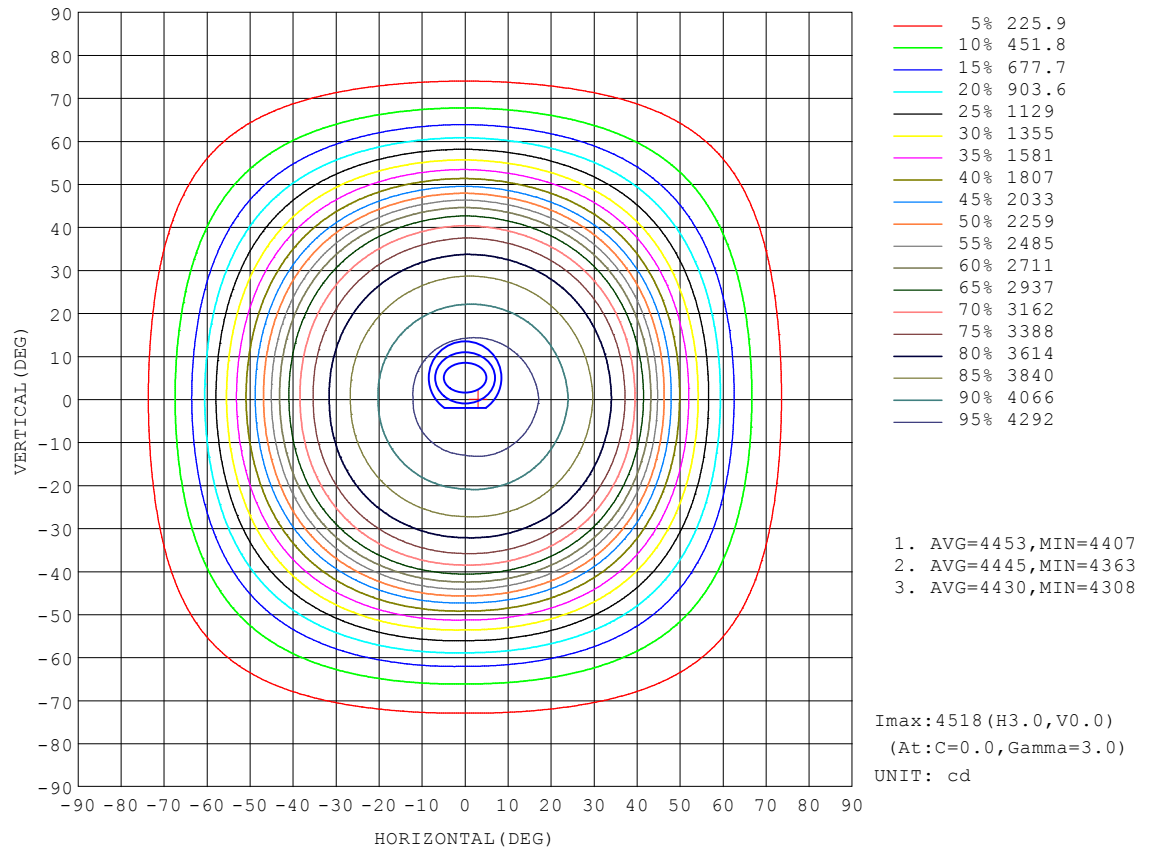
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	54	48	64	54	48	63	54	48	42
0.80	75	65	59	74	64	58	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	97	92	101	95	91	97	92	89	81
3.00	105	100	96	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	87
5.00	110	107	103	108	104	102	103	101	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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

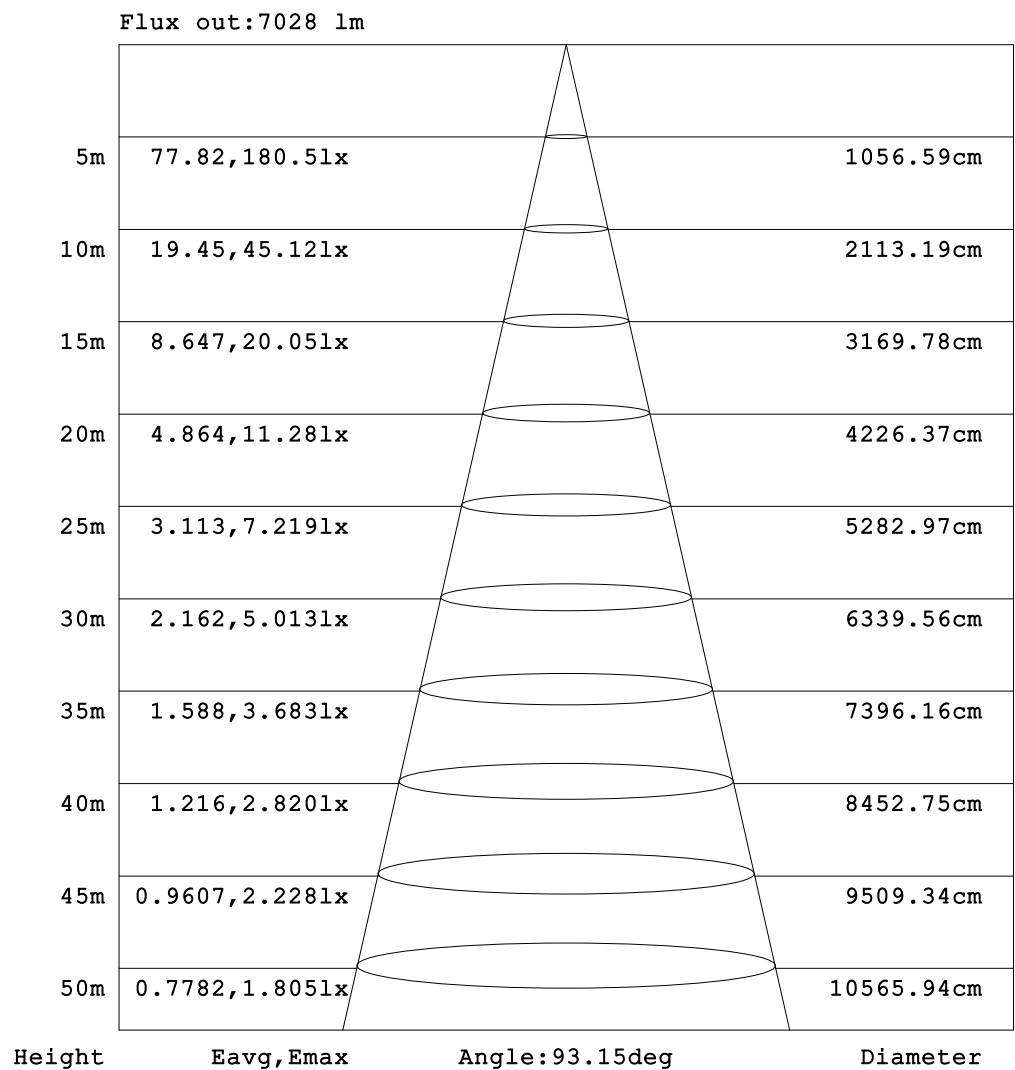


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



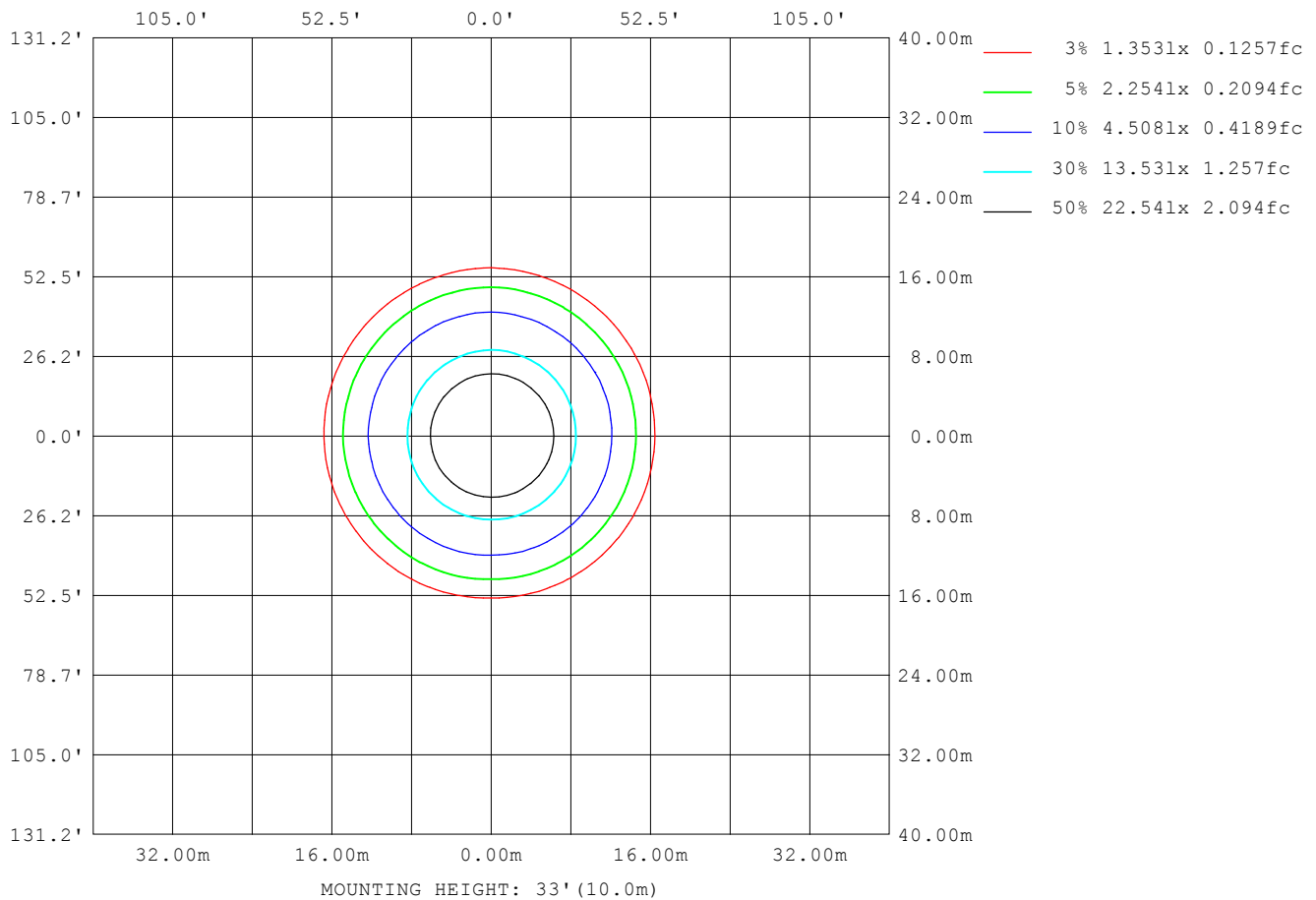
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 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:

LED Avg.L Report

Test:U:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

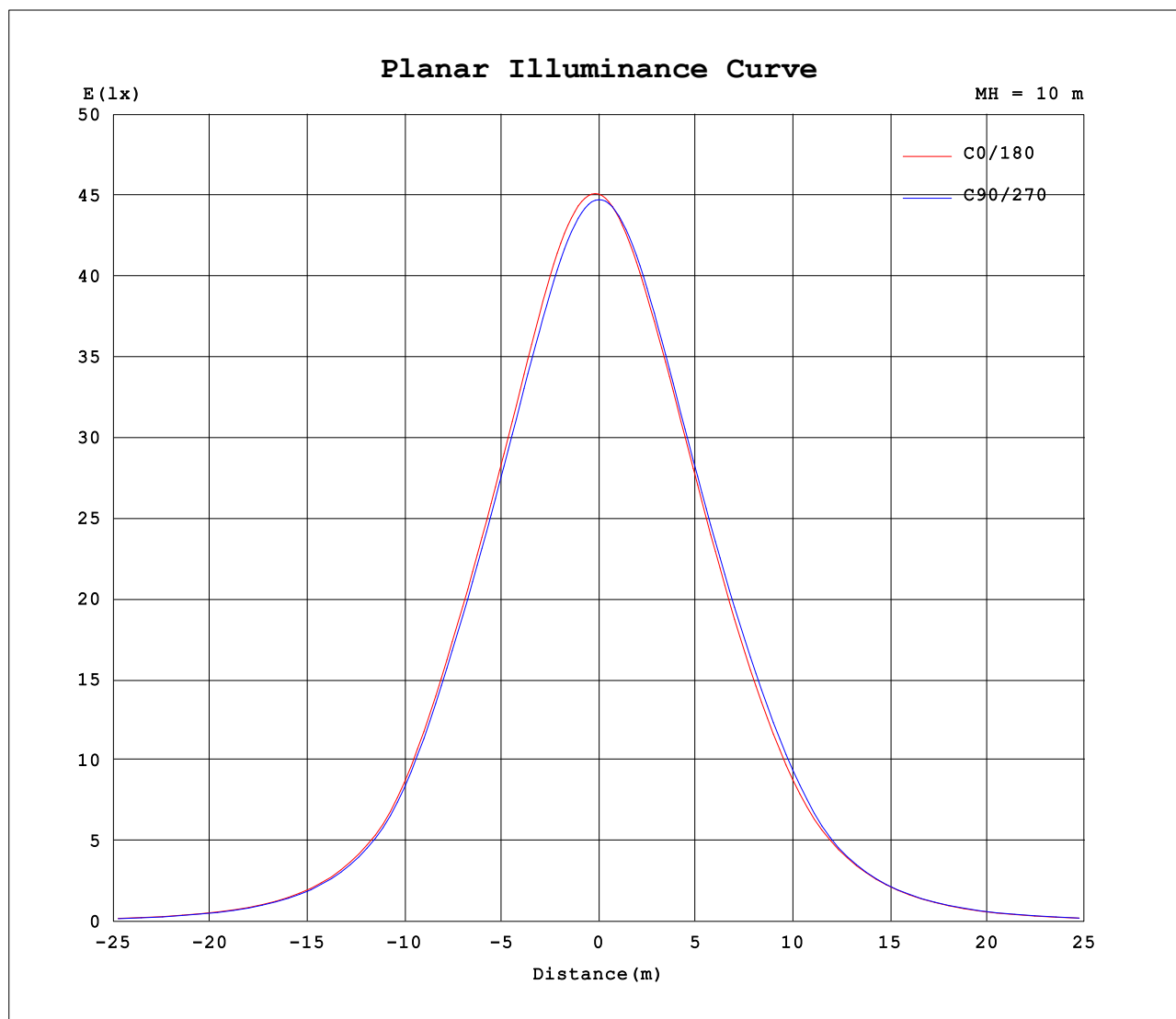
AvgL	cd/m2
L_0~180 (65) av	13289
L_0~180 (75) av	7491
L_0~180 (85) av	3473
L_90~270 (65) av	13210
L_90~270 (75) av	7329
L_90~270 (85) av	3596
L_45 (65) av	13278
L_45 (75) av	7394
L_45 (85) av	3506

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:218.83V I:0.2890A P:61.708W PF:0.9758 Freq:58.98Hz Lamp Flux:9775.78x1 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	4508	4475	4508	4475															
5	4514	4444	4450	4454															
10	4464	4363	4346	4385															
15	4356	4237	4214	4270															
20	4201	4092	4073	4128															
25	4030	3925	3905	3971															
30	3827	3722	3693	3785															
35	3554	3449	3410	3544															
40	3111	3008	3025	3196															
45	2449	2358	2491	2660															
50	1795	1719	1903	1968															
55	1278	1228	1400	1419															
60	854	819	949	967															
65	536	511	587	606															
70	323	306	339	350															
75	192	178	196	201															
80	89.6	79.3	96.6	104															
85	36.3	35.2	24.2	27.4															
90	30.3	29.8	17.8	17.5															
95	28.0	27.6	19.2	18.8															
100	26.9	26.6	21.1	20.6															
105	27.0	27.1	23.5	23.0															
110	28.2	28.4	26.4	25.7															
115	30.0	30.4	29.5	28.8															
120	32.5	33.0	32.8	32.0															
125	35.4	35.9	36.3	35.4															
130	38.6	39.2	40.1	39.1															
135	42.0	42.6	44.0	42.9															
140	45.5	46.1	47.7	46.4															
145	49.0	49.5	51.2	49.8															
150	52.3	52.7	54.5	53.1															
155	55.5	55.8	57.7	56.2															
160	58.4	58.7	60.8	59.2															
165	61.2	61.2	63.5	61.9															
170	63.4	63.3	65.5	64.0															
175	65.4	65.2	66.7	65.3															
180	66.5	66.1	67.0	65.7															

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: