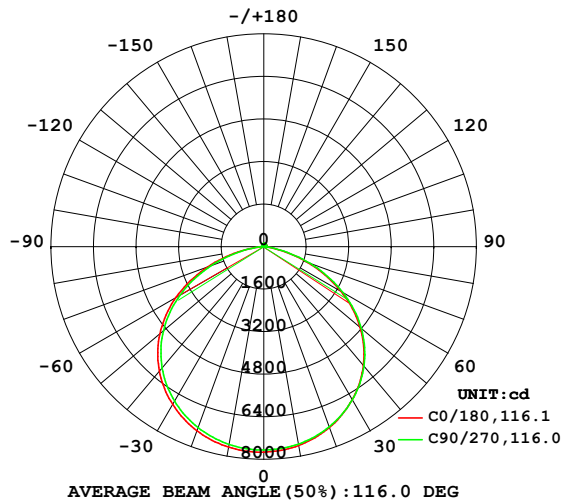


LUMINAIRE PHOTOMETRIC TEST REPORT

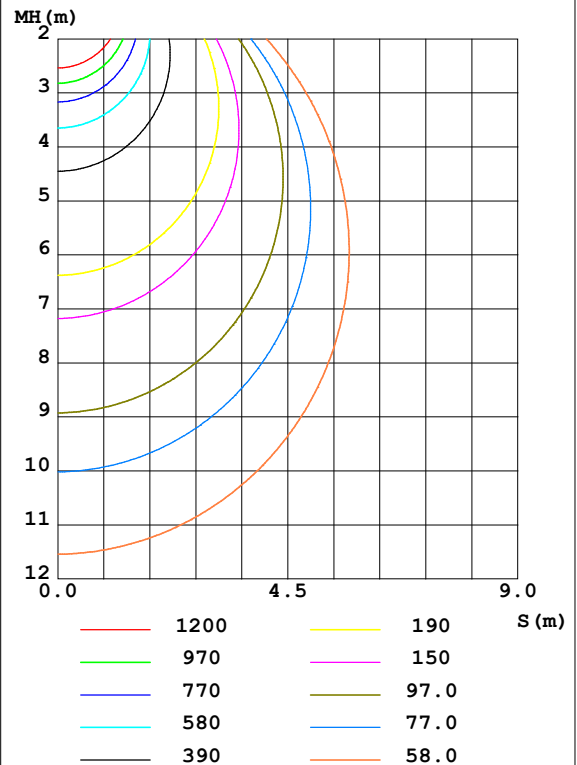
Test:U:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.00 lm/W			
MODEL		I _{max} (cd)	7730	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	22817	η UP, DN (C0-180)	1.2, 47.3
NOMINAL FLUX (lm)	22816.8	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)	220.0	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: DAMIN
Test Date: 2024-11-10

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:

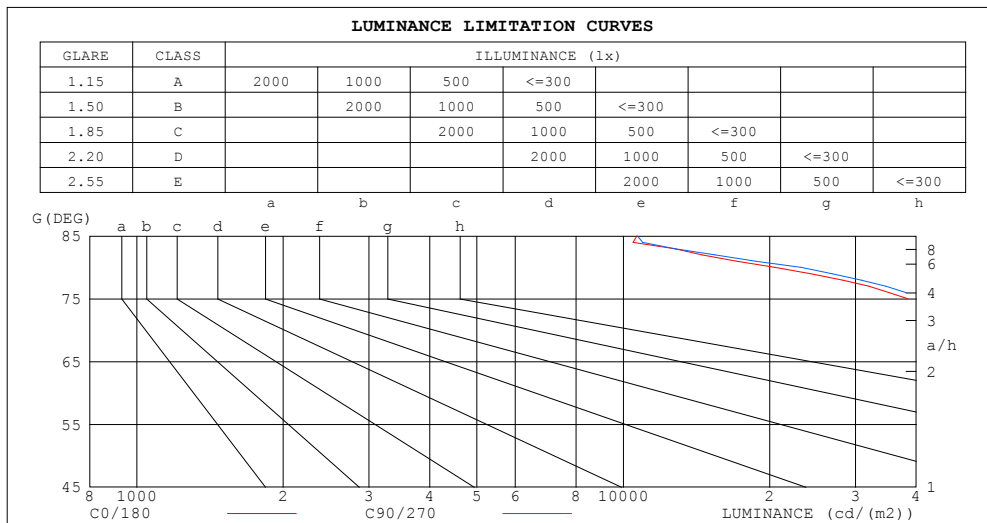
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	7590	7538	7654	7551					0- 10	728.9	728.9	3.19,3.19
20	7235	7209	7365	7241					10- 20	2104	2833	12.4,12.4
30	6654	6657	6854	6712					20- 30	3237	6070	26.6,26.6
40	5834	5865	6110	5953					30- 40	3980	10050	44,44
50	4735	4795	5101	4930					40- 50	4201	14250	62.5,62.5
60	3335	3427	3808	3634					50- 60	3797	18047	79.1,79.1
70	1769	1863	2254	2106					60- 70	2749	20796	91.1,91.1
80	356.0	403.0	710.3	617.3					70- 80	1298	22094	96.8,96.8
90	84.15	84.33	49.06	48.42					80- 90	200.5	22294	97.7,97.7
100	75.40	75.12	52.75	52.79					90-100	70.57	22365	98,98
110	75.78	75.09	63.27	63.52					100-110	69.97	22435	98.3,98.3
120	81.21	80.32	75.78	75.90					110-120	73.13	22508	98.6,98.6
130	88.94	87.94	88.60	88.58					120-130	74.62	22583	99,99
140	97.91	96.86	100.7	100.4					130-140	72.53	22655	99.3,99.3
150	106.6	105.6	110.3	109.5					140-150	64.97	22720	99.6,99.6
160	114.2	113.4	117.2	116.0					150-160	51.63	22772	99.8,99.8
170	119.6	119.1	121.3	119.7					160-170	33.33	22805	99.9,99.9
180	122.2	122.0	123.3	121.2					170-180	11.54	22817	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



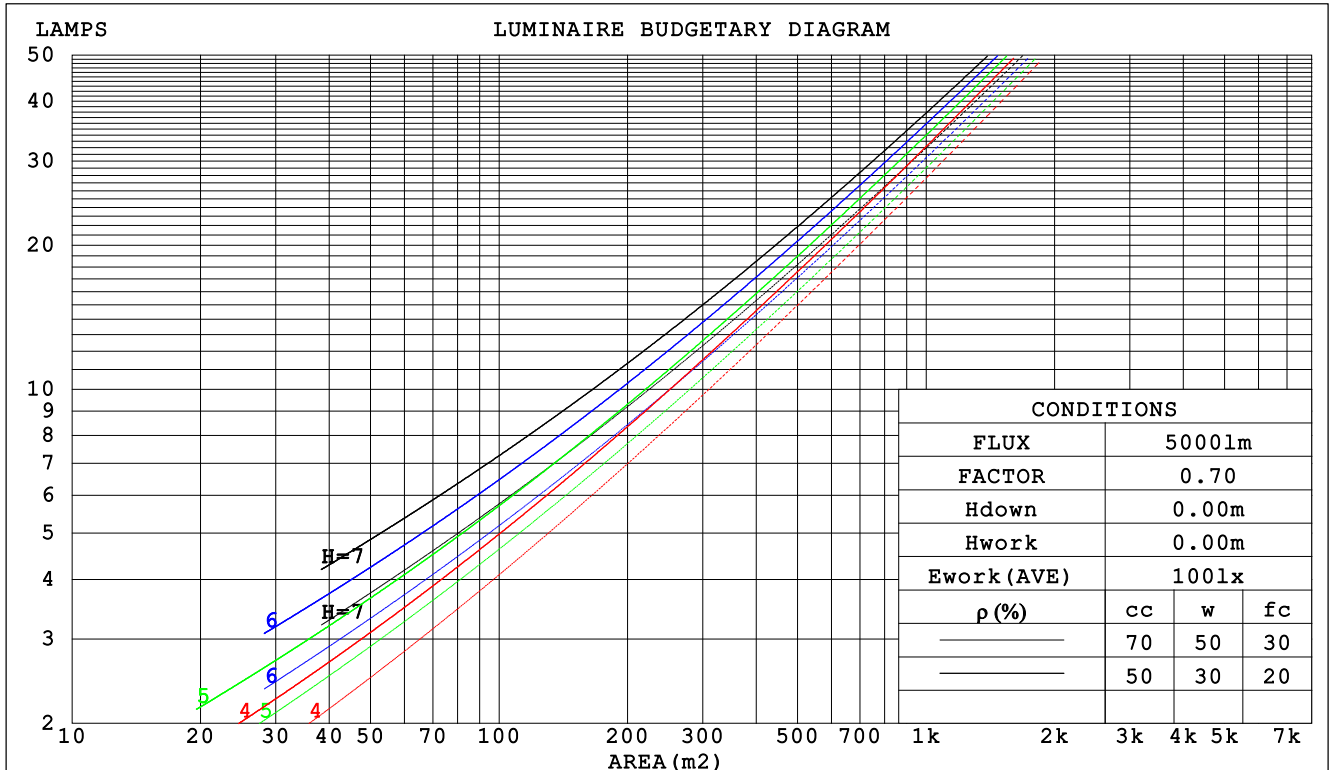
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 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	1.19	1.19	1.19	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	.96	1.02	.98	.95	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.80	.72	.65	.78	.71	.65	.75	.68	.63	.72	.66	.62	.69	.64	.60	.58
4.0	.71	.62	.55	.69	.61	.55	.66	.59	.54	.64	.58	.53	.61	.56	.52	.50
5.0	.63	.54	.48	.62	.53	.47	.59	.52	.46	.57	.51	.46	.55	.49	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.43	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.45	.39	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 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	.294	.167	.053	.286	.163	.052	.272	.156	.050	.259	.149	.048	.246	.143	.046	
2.0	.282	.155	.047	.275	.152	.047	.262	.146	.045	.251	.141	.044	.240	.136	.043	
3.0	.264	.140	.042	.257	.138	.042	.246	.133	.041	.236	.129	.040	.226	.125	.039	
4.0	.245	.127	.037	.239	.125	.037	.229	.122	.036	.220	.118	.036	.211	.115	.035	
5.0	.227	.116	.034	.222	.114	.033	.213	.111	.033	.205	.108	.032	.197	.105	.032	
6.0	.211	.106	.030	.207	.105	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	
7.0	.197	.097	.028	.193	.096	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.184	.090	.025	.181	.089	.025	.174	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.163	.078	.022	.160	.077	.022	.154	.076	.021	.149	.074	.021	.145	.073	.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	.153	.168	.149	.132	.115	.103	.091	.066	.059	.053	.021	.019	.017	
2.0	.189	.150	.117	.162	.129	.101	.111	.089	.070	.064	.052	.041	.020	.017	.013	
3.0	.181	.132	.093	.155	.114	.081	.107	.079	.057	.062	.046	.033	.020	.015	.011	
4.0	.174	.119	.077	.149	.103	.067	.102	.072	.047	.059	.042	.028	.019	.014	.009	
5.0	.166	.108	.066	.143	.094	.057	.098	.066	.040	.057	.038	.024	.018	.013	.008	
6.0	.159	.100	.057	.137	.087	.050	.095	.061	.035	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.051	.131	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.146	.087	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.140	.083	.043	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.041	.116	.068	.035	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 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	16.6	18.1	16.9	18.4	18.6	16.7	18.2	17.0	18.4	18.7
3H	17.8	19.2	18.1	19.4	19.7	18.0	19.3	18.3	19.6	19.9
4H	18.1	19.4	18.5	19.7	20.0	18.3	19.6	18.6	19.9	20.2
6H	18.2	19.4	18.5	19.7	20.0	18.4	19.6	18.7	19.9	20.2
8H	18.2	19.3	18.5	19.6	20.0	18.3	19.5	18.7	19.8	20.2
12H	18.1	19.2	18.5	19.6	19.9	18.3	19.4	18.7	19.8	20.1
4H 2H	17.2	18.5	17.5	18.8	19.1	17.2	18.5	17.6	18.8	19.1
3H	18.5	19.6	18.9	19.9	20.3	18.6	19.7	19.0	20.1	20.4
4H	18.9	19.9	19.3	20.2	20.6	19.0	20.0	19.4	20.4	20.8
6H	19.0	19.9	19.4	20.3	20.7	19.1	20.1	19.6	20.4	20.9
8H	19.0	19.8	19.4	20.2	20.6	19.1	20.0	19.6	20.4	20.8
12H	18.9	19.7	19.4	20.1	20.6	19.1	19.9	19.6	20.3	20.7
8H 4H	19.0	19.8	19.4	20.2	20.6	19.1	19.9	19.5	20.3	20.8
6H	19.1	19.8	19.6	20.3	20.7	19.3	20.0	19.8	20.4	20.9
8H	19.1	19.7	19.6	20.2	20.7	19.3	19.9	19.8	20.4	20.9
12H	19.1	19.6	19.6	20.1	20.6	19.3	19.8	19.8	20.3	20.8
12H 4H	18.9	19.7	19.4	20.1	20.6	19.1	19.8	19.5	20.3	20.7
6H	19.1	19.7	19.6	20.2	20.7	19.3	19.9	19.8	20.3	20.8
8H	19.1	19.6	19.6	20.1	20.7	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	+ 0.3 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 22817 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:DAMIN
Test Date:2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

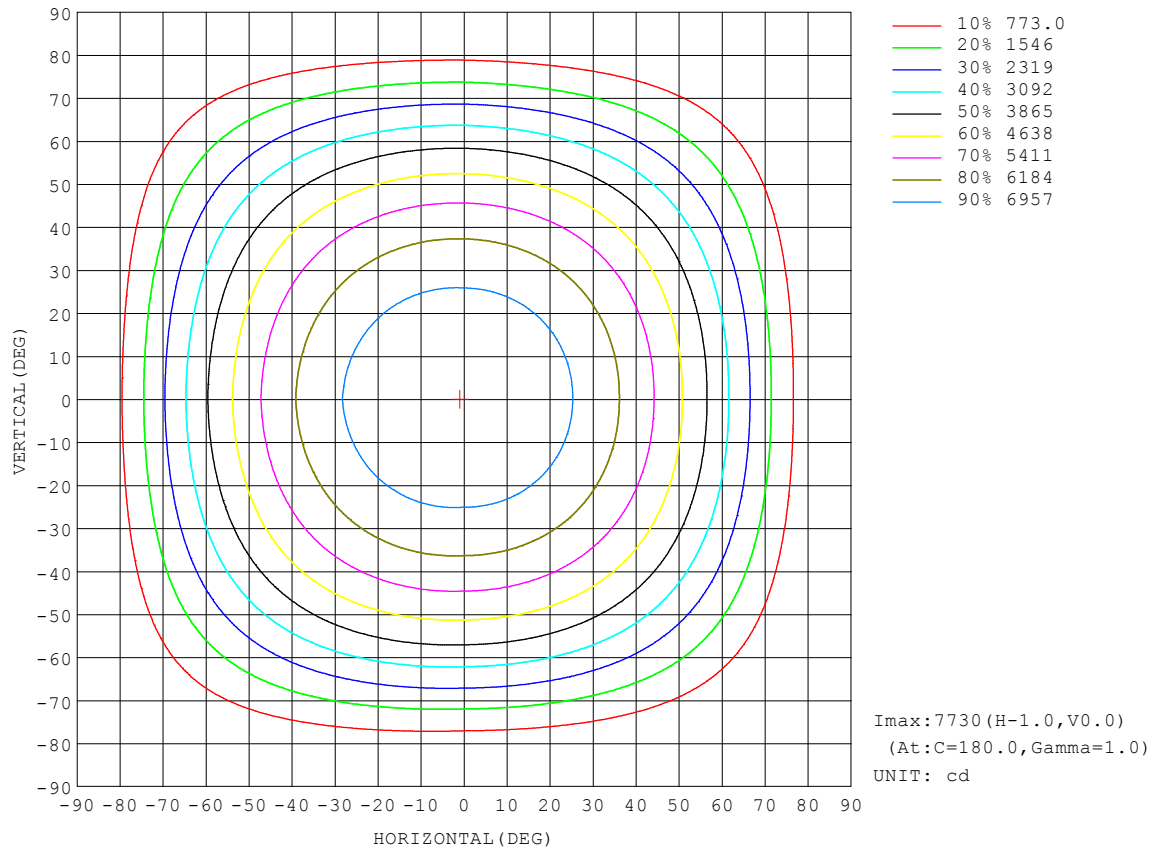
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	57	49
1.25	83	73	66	81	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	87	80	93	85	79	89	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	96	90	100	94	89	96	91	86	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: DAMIN
 Test Date: 2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

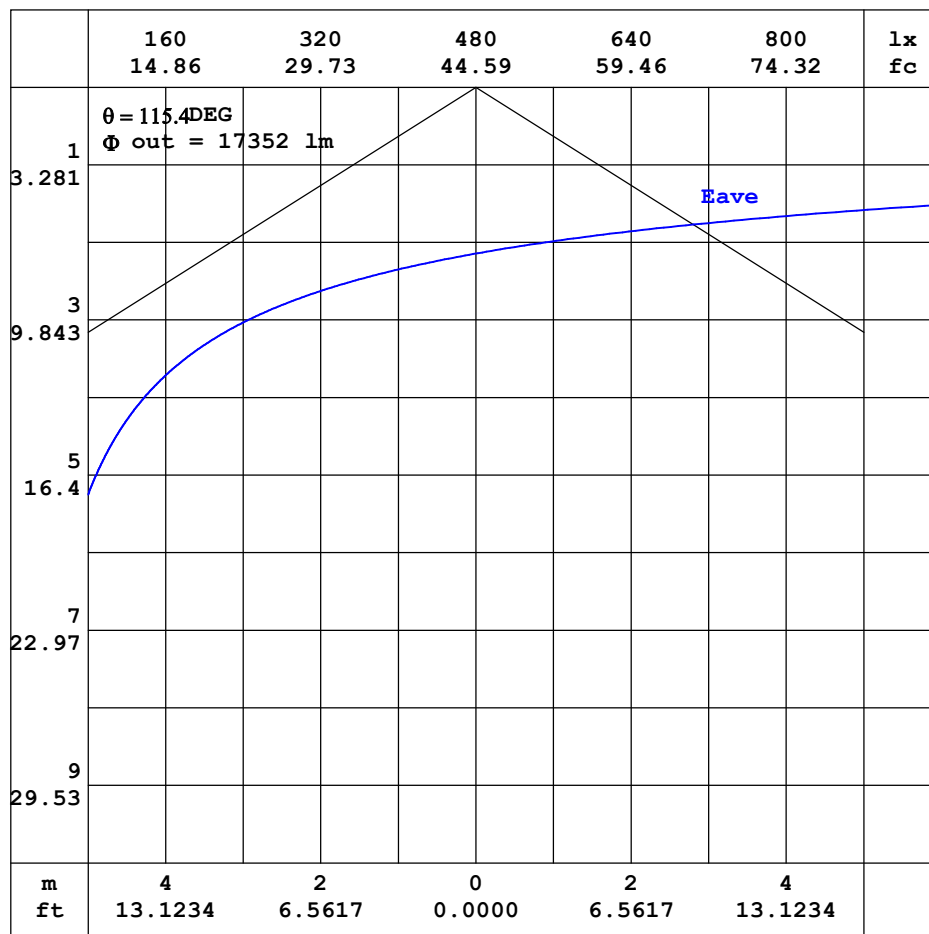


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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 CURVES

Test:U:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



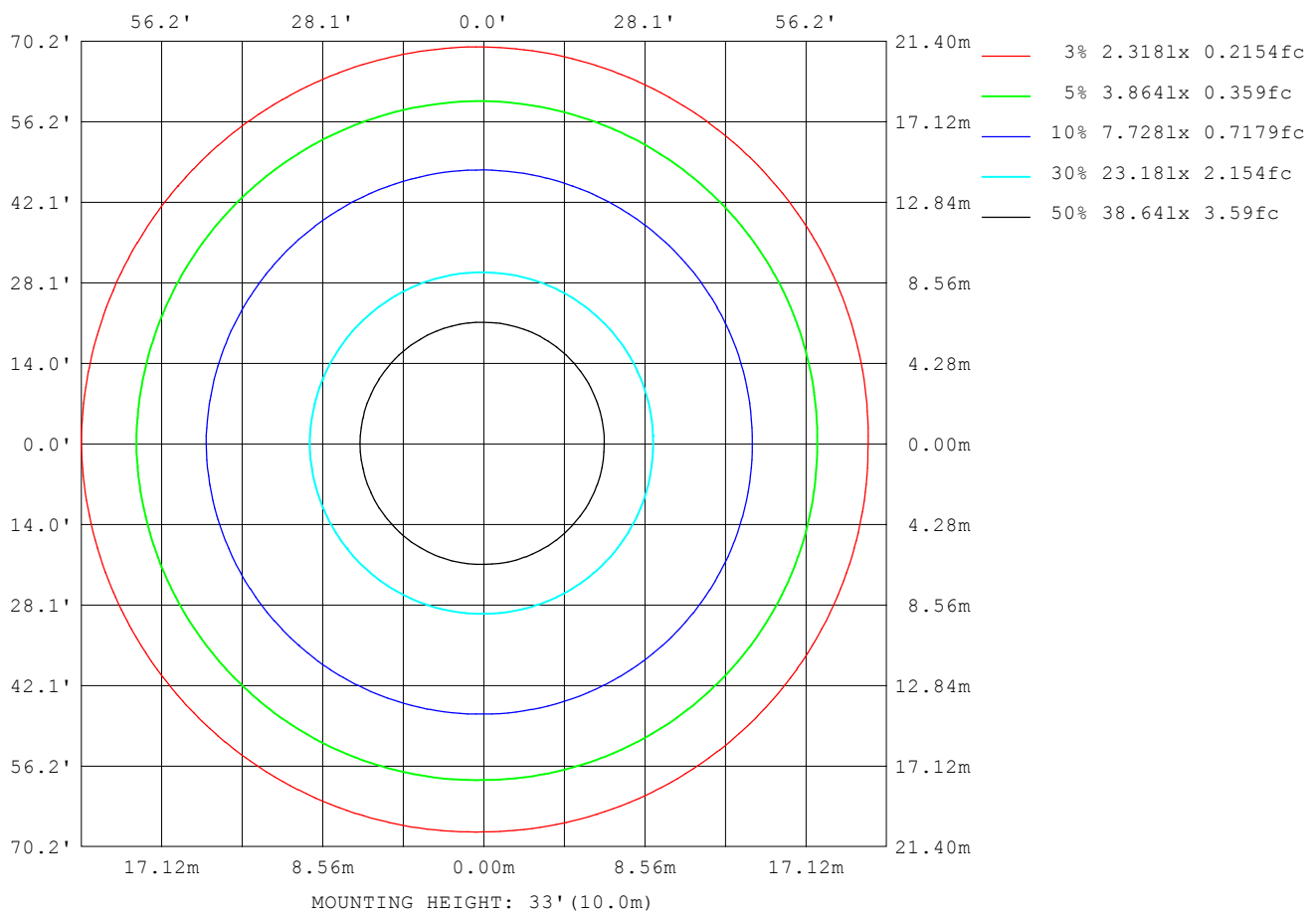
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 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: DAMIN
Test Date: 2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

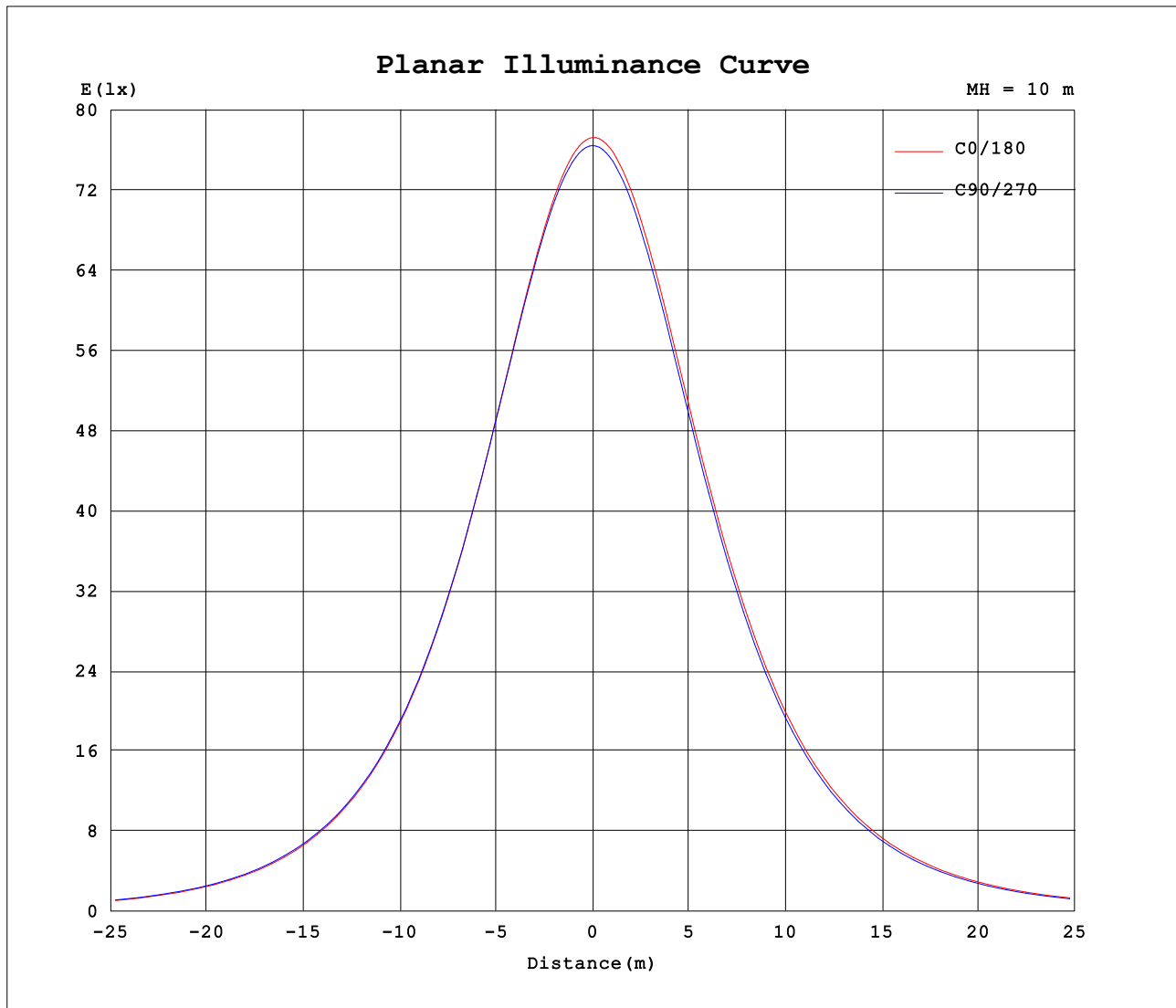
AvgL	cd/m2
L_0~180 (65) av	66178
L_0~180 (75) av	47585
L_0~180 (85) av	14829
L_90~270 (65) av	65494
L_90~270 (75) av	46737
L_90~270 (85) av	13259
L_45 (65) av	66116
L_45 (75) av	47627
L_45 (85) av	14108

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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: DAMIN
Test Date: 2024-11-10

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:218.36V I:0.7108A P:150.11W PF:0.9672 Freq:49.99Hz Lamp Flux:22816.8x1 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	7728	7648	7728	7648															
5	7686	7619	7718	7624															
10	7590	7538	7654	7551															
15	7439	7401	7538	7423															
20	7235	7209	7365	7241															
25	6973	6961	7138	7005															
30	6654	6657	6854	6712															
35	6277	6293	6514	6363															
40	5834	5865	6110	5953															
45	5321	5366	5642	5476															
50	4735	4795	5101	4930															
55	4077	4154	4488	4316															
60	3335	3427	3808	3634															
65	2550	2650	3044	2886															
70	1769	1863	2254	2106															
75	995	1070	1469	1349															
80	356	403	710	617															
85	93.0	93.2	165	138															
90	84.2	84.3	49.1	48.4															
95	78.8	78.9	50.1	49.8															
100	75.4	75.1	52.7	52.8															
105	74.6	74.1	57.2	57.5															
110	75.8	75.1	63.3	63.5															
115	78.0	77.2	69.6	69.8															
120	81.2	80.3	75.8	75.9															
125	84.8	83.9	82.0	82.1															
130	88.9	87.9	88.6	88.6															
135	93.4	92.3	94.9	94.7															
140	97.9	96.9	101	100															
145	102	101	106	105															
150	107	106	110	110															
155	111	110	114	113															
160	114	113	117	116															
165	117	117	120	118															
170	120	119	121	120															
175	121	121	122	121															
180	122	122	123	121															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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: