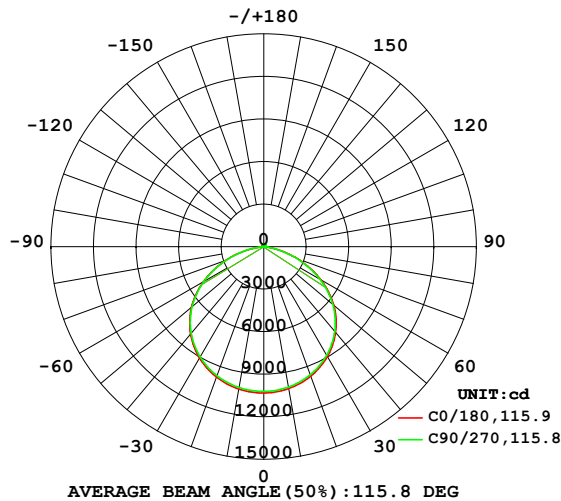


LUMINAIRE PHOTOMETRIC TEST REPORT

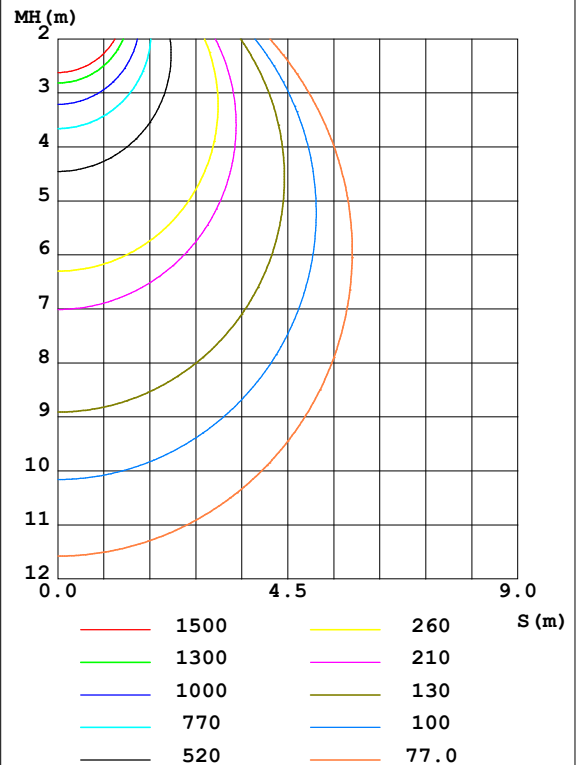
Test:U:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.71 lm/W			
MODEL		Imax(cd)	10320	S/MH(C0/180)	1.31
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	30458	η UP,DN(C0-180)	1.2,47.8
NOMINAL FLUX(lm)	30458.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,49.9
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:

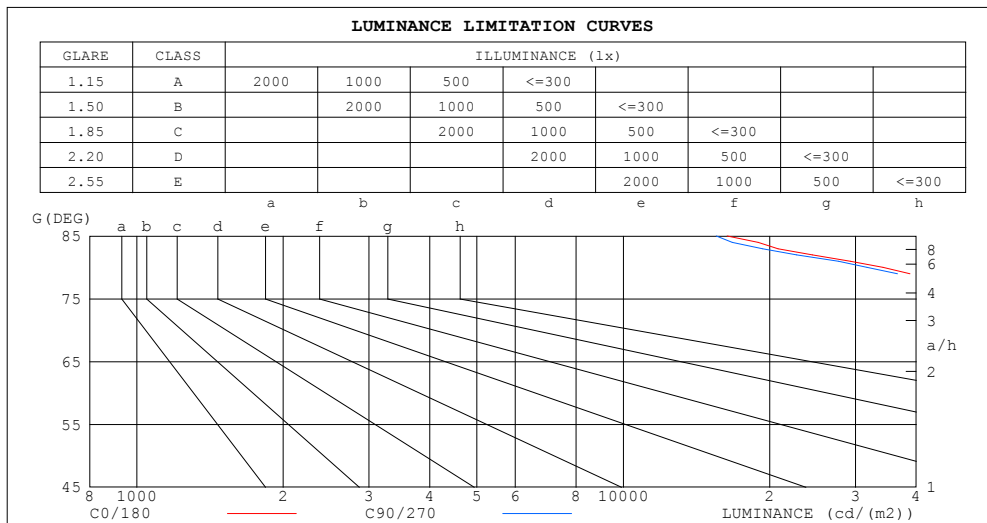
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1017	1006	1020	1009					0- 10	973.4	973.4	3.2,3.2
20	971.4	960.7	978.2	968.2					10- 20	2810	3783	12.4,12.4
30	896.6	886.0	907.0	898.3					20- 30	4321	8104	26.6,26.6
40	789.3	779.3	804.2	796.8					30- 40	5310	13414	44,44
50	645.6	636.6	665.9	661.2					40- 50	5602	19017	62.4,62.4
60	462.0	454.6	489.5	485.8					50- 60	5059	24076	79,79
70	255.4	250.4	286.8	284.8					60- 70	3683	27759	91.1,91.1
80	59.37	55.08	80.37	81.53					70- 80	1735	29494	96.8,96.8
90	11.39	11.27	6.568	6.473					80- 90	266.4	29761	97.7,97.7
100	10.15	10.06	7.147	7.037					90-100	94.76	29855	98,98
110	10.10	10.04	8.614	8.468					100-110	93.90	29949	98.3,98.3
120	10.76	10.71	10.27	10.10					110-120	97.86	30047	98.7,98.7
130	11.75	11.70	11.98	11.78					120-130	99.61	30147	99,99
140	12.92	12.88	13.58	13.35					130-140	96.65	30243	99.3,99.3
150	14.09	14.03	14.81	14.56					140-150	86.50	30330	99.6,99.6
160	15.12	15.06	15.62	15.36					150-160	68.65	30399	99.8,99.8
170	15.89	15.81	16.14	15.87					160-170	44.23	30443	99.9,99.9
180	16.19	16.16	16.33	16.05					170-180	15.31	30458	100,100
DEG	LUMINOUS INTENSITY:×10cd									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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16354	15524
80	34190	31721
75	56999	55187
70	74675	73215
65	85220	83651
60	92405	90923
55	97306	95975
50	100431	99045
45	102120	100785

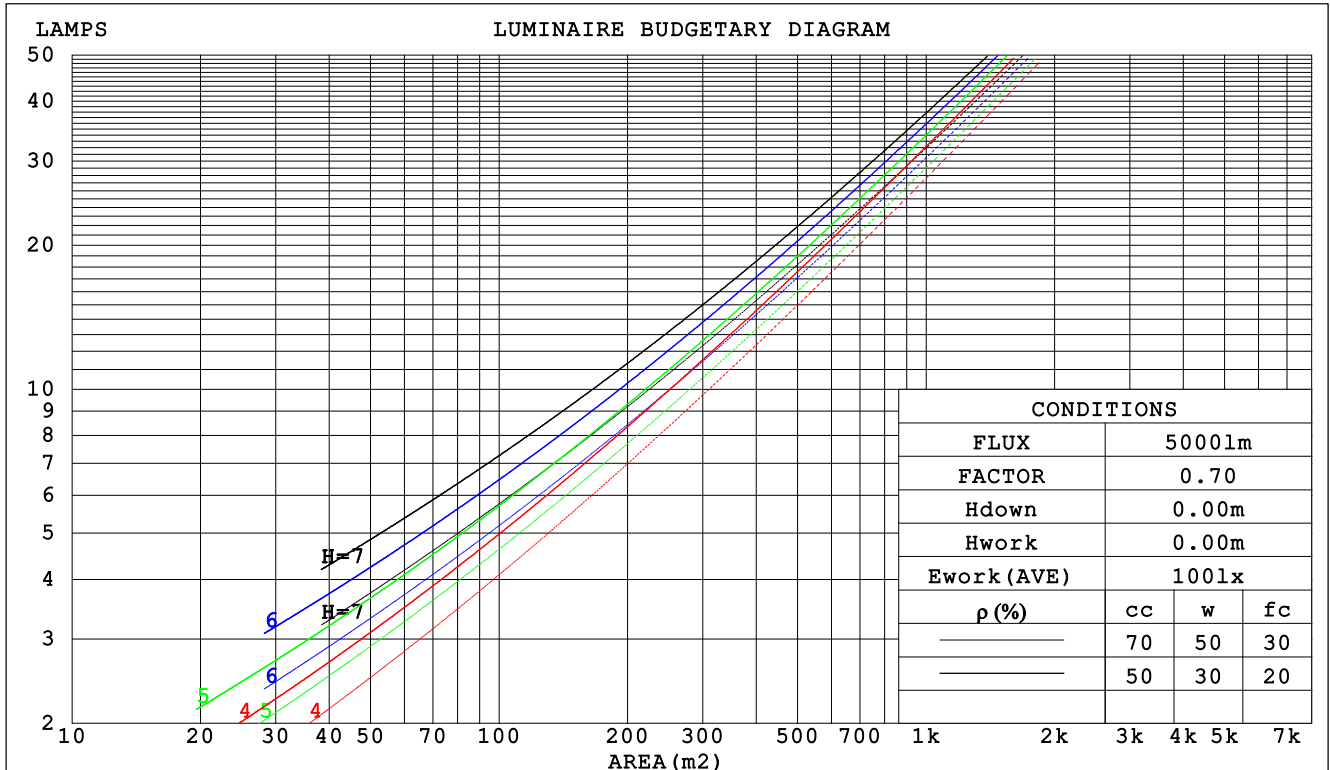
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 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	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	.74	.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	.47	.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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 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	.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	.258	.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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 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	2H	16.8	18.3	17.1	18.5	18.8	16.7	18.2	17.0	18.5	18.7
	3H	18.1	19.4	18.4	19.7	20.0	18.0	19.3	18.3	19.6	19.9
	4H	18.4	19.7	18.8	20.0	20.3	18.3	19.6	18.7	19.9	20.2
	6H	18.5	19.7	18.9	20.0	20.4	18.4	19.6	18.8	19.9	20.3
	8H	18.5	19.7	18.9	20.0	20.3	18.4	19.6	18.8	19.9	20.2
	12H	18.5	19.6	18.8	19.9	20.3	18.3	19.5	18.7	19.8	20.2
4H	2H	17.3	18.6	17.7	18.9	19.2	17.3	18.6	17.6	18.9	19.2
	3H	18.7	19.9	19.1	20.2	20.5	18.7	19.8	19.1	20.1	20.5
	4H	19.2	20.2	19.6	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	6H	19.3	20.2	19.8	20.6	21.0	19.2	20.1	19.7	20.5	20.9
	8H	19.3	20.2	19.8	20.6	21.0	19.2	20.1	19.7	20.5	20.9
	12H	19.3	20.1	19.8	20.5	20.9	19.2	20.0	19.7	20.4	20.8
8H	4H	19.3	20.1	19.7	20.5	20.9	19.2	20.0	19.6	20.4	20.9
	6H	19.5	20.2	20.0	20.6	21.1	19.4	20.1	19.9	20.5	21.0
	8H	19.5	20.1	20.0	20.6	21.1	19.4	20.0	19.9	20.5	21.0
	12H	19.5	20.0	20.0	20.5	21.0	19.4	19.9	19.9	20.4	20.9
12H	4H	19.2	20.0	19.7	20.4	20.9	19.2	19.9	19.6	20.4	20.8
	6H	19.5	20.1	20.0	20.5	21.0	19.4	20.0	19.9	20.5	21.0
	8H	19.5	20.0	20.0	20.5	21.0	19.4	19.9	19.9	20.4	20.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3					

CIE Pub.117, 30458 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.9)
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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

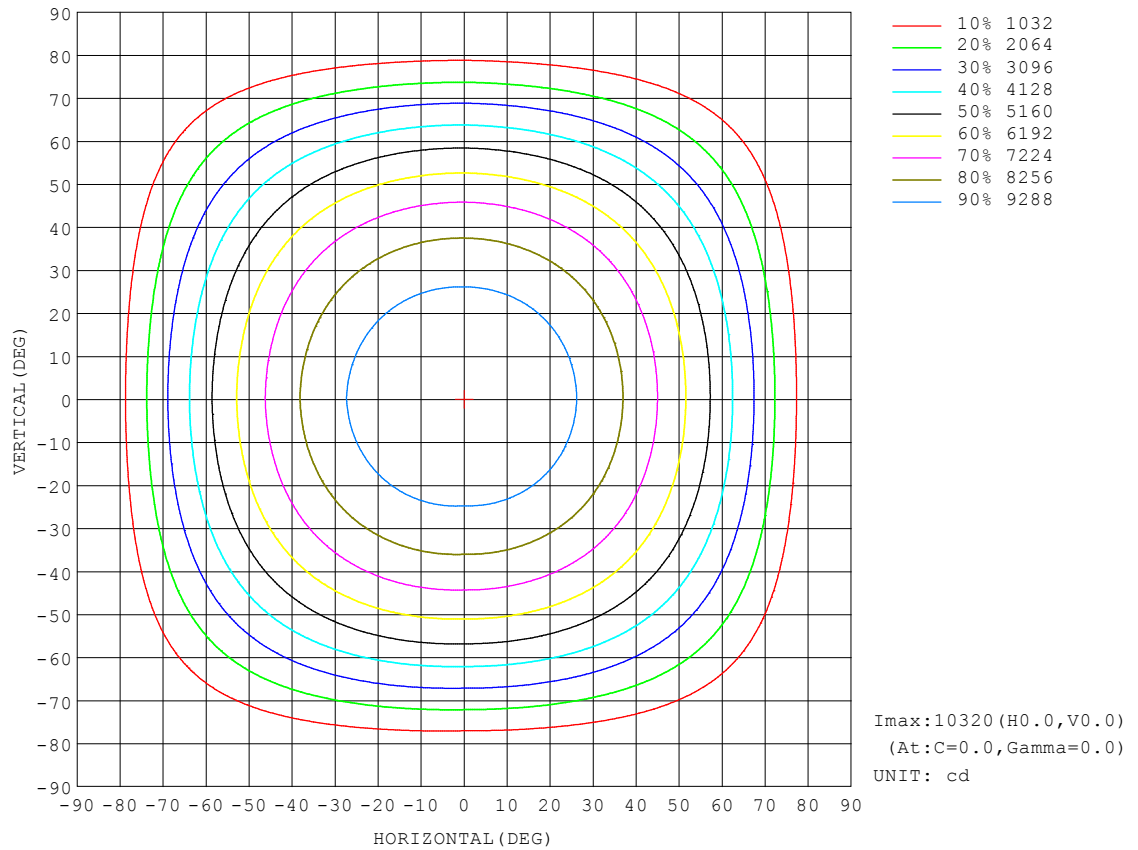
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	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	69
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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

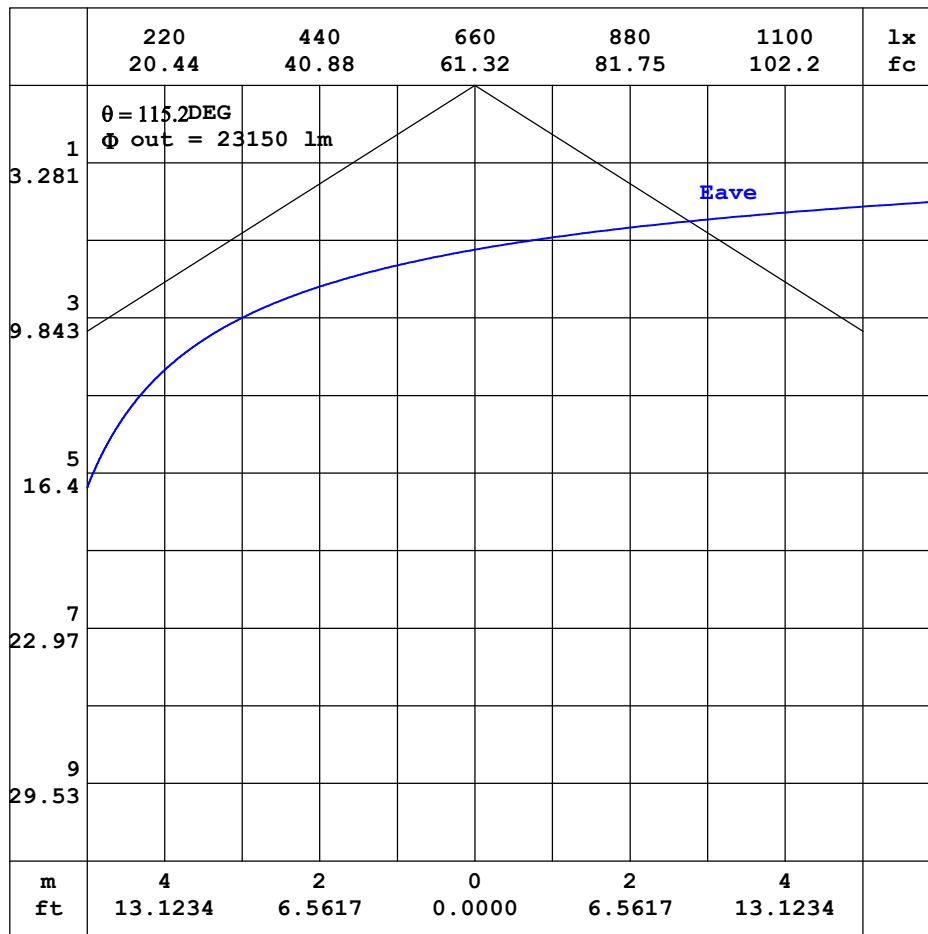


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



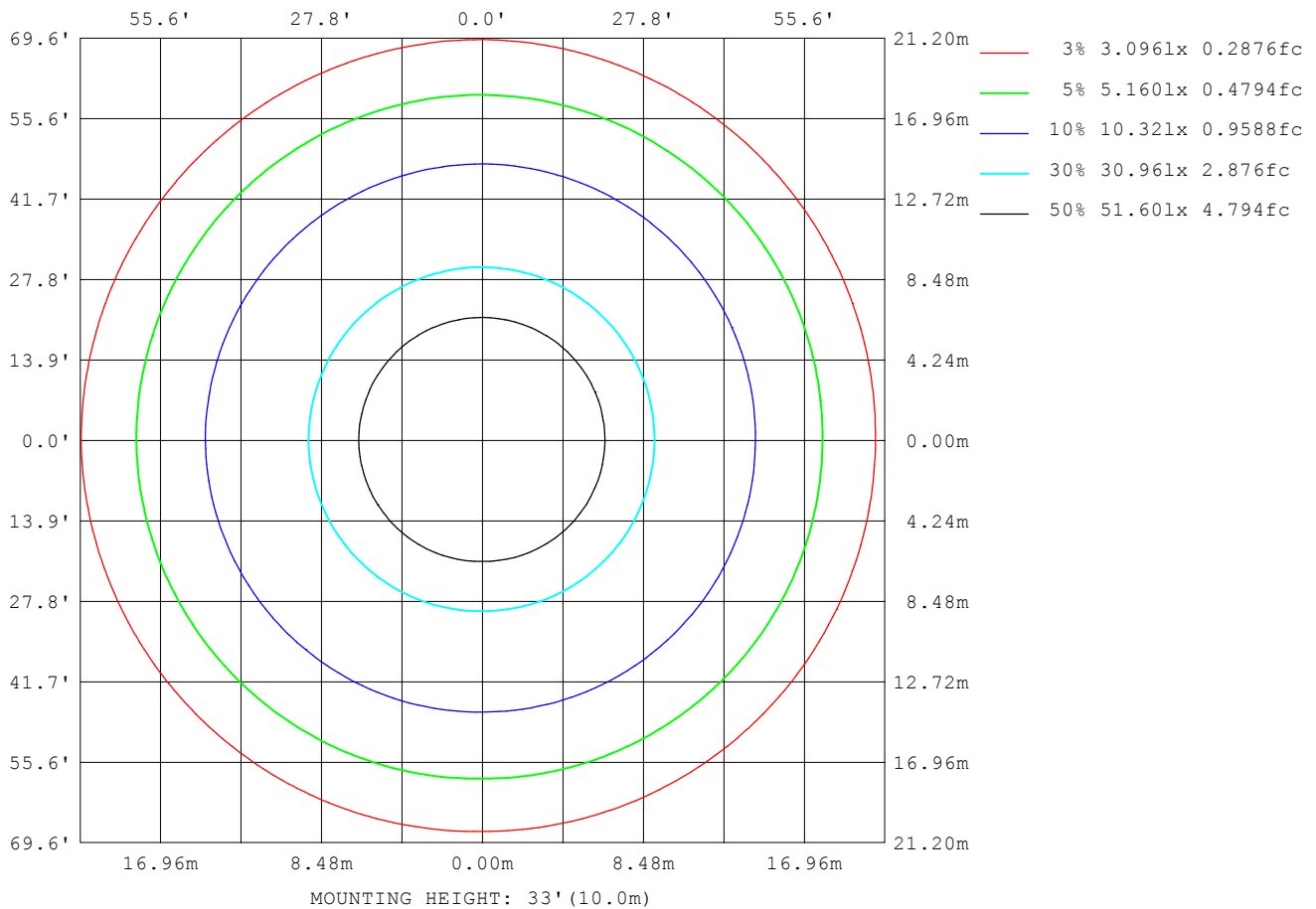
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 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: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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

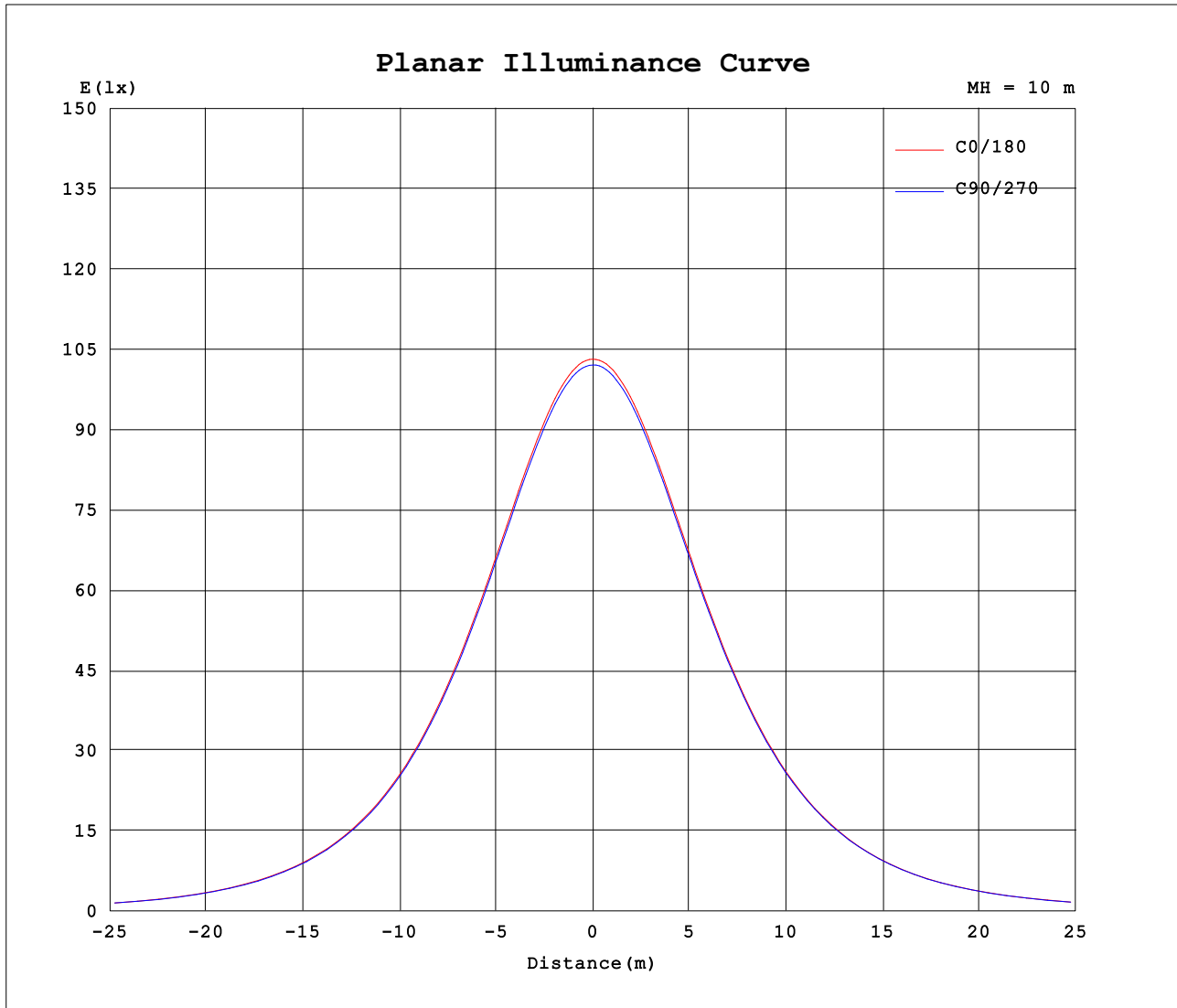
AvgL	cd/m2
L_0~180 (65) av	88781
L_0~180 (75) av	63109
L_0~180 (85) av	18443
L_90~270 (65) av	87761
L_90~270 (75) av	62262
L_90~270 (85) av	18571
L_45 (65) av	88366
L_45 (75) av	62962
L_45 (85) av	18654

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:218.34V I:0.9501A P:199.45W PF:0.9615 Freq:49.99Hz Lamp Flux:30458.1x1 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	1032	1021	1032	1021															
5	1028	1017	1029	1019															
10	1017	1006	1020	1009															
15	997	987	1003	992															
20	971	961	978	968															
25	938	927	946	937															
30	897	886	907	898															
35	847	837	860	852															
40	789	779	804	797															
45	722	713	740	734															
50	646	637	666	661															
55	558	550	583	578															
60	462	455	489	486															
65	360	354	390	388															
70	255	250	287	285															
75	148	143	179	179															
80	59.4	55.1	80.4	81.5															
85	14.3	13.5	17.9	18.8															
90	11.4	11.3	6.57	6.47															
95	10.7	10.5	6.74	6.64															
100	10.1	10.1	7.15	7.04															
105	9.99	9.92	7.80	7.66															
110	10.1	10.0	8.61	8.47															
115	10.4	10.3	9.45	9.29															
120	10.8	10.7	10.3	10.1															
125	11.2	11.2	11.1	10.9															
130	11.8	11.7	12.0	11.8															
135	12.3	12.3	12.8	12.6															
140	12.9	12.9	13.6	13.3															
145	13.5	13.5	14.2	14.0															
150	14.1	14.0	14.8	14.6															
155	14.6	14.6	15.3	15.0															
160	15.1	15.1	15.6	15.4															
165	15.6	15.5	15.9	15.6															
170	15.9	15.8	16.1	15.9															
175	16.1	16.0	16.3	16.0															
180	16.2	16.2	16.3	16.0															

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: