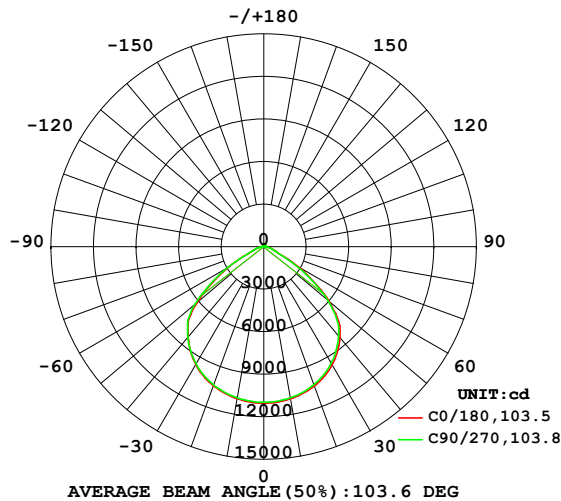


LUMINAIRE PHOTOMETRIC TEST REPORT

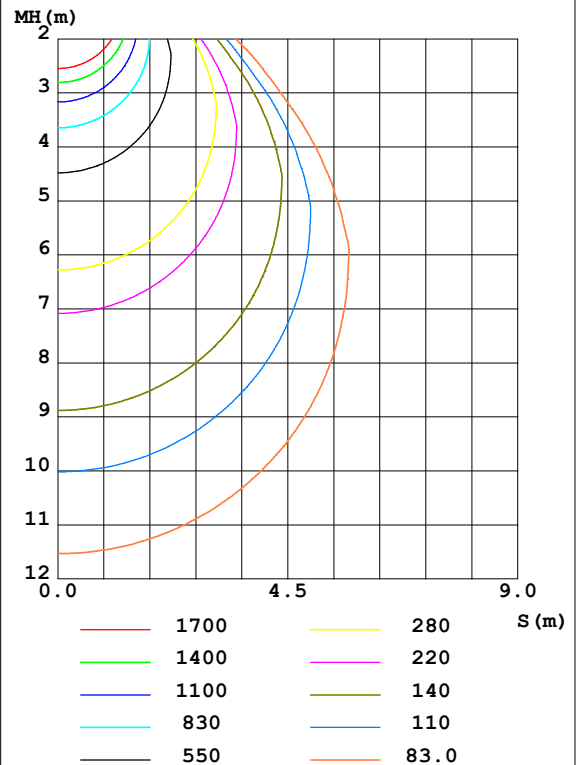
Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.53 lm/W			
MODEL		Imax(cd)	11036	S/MH(C0/180)	1.29
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	26710	η UP,DN(C0-180)	1.2,48.4
NOMINAL FLUX(lm)	26709.6	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	1.35

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:2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

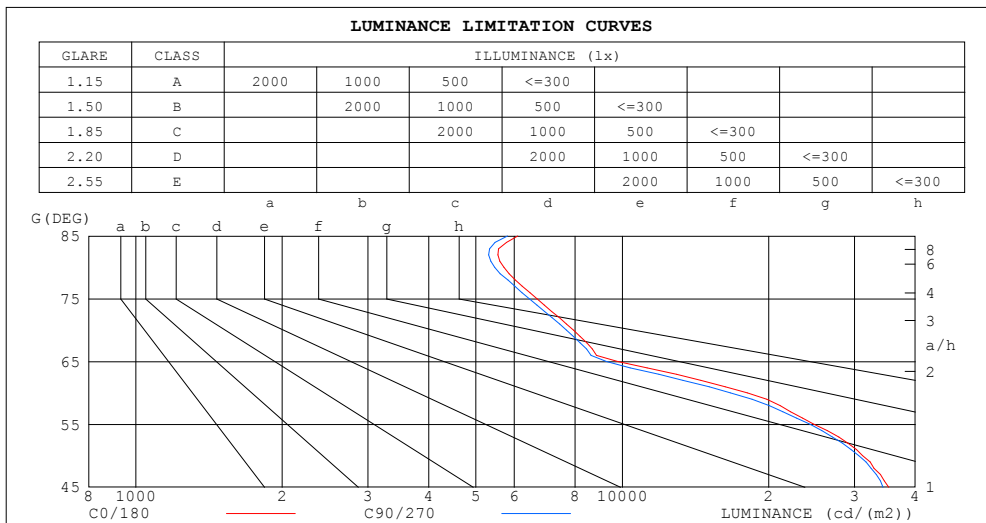
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1090	1082	1088	1082					0- 10	1044	1044	3.91,3.91
20	1045	1036	1043	1037					10- 20	3014	4058	15.2,15.2
30	964.2	951.9	960.7	955.8					20- 30	4629	8687	32.5,32.5
40	836.0	821.2	832.1	834.2					30- 40	5625	14311	53.6,53.6
50	601.4	590.4	614.6	633.4					40- 50	5693	20004	74.9,74.9
60	270.9	250.0	284.5	295.1					50- 60	3920	23923	89.6,89.6
70	81.44	78.77	79.39	80.90					60- 70	1467	25390	95.1,95.1
80	29.76	28.50	27.32	28.34					70- 80	547.2	25938	97.1,97.1
90	8.430	8.305	5.756	6.286					80- 90	170.5	26108	97.7,97.7
100	7.662	7.624	5.663	5.576					90-100	71.42	26180	98,98
110	7.910	7.898	7.018	6.872					100-110	73.78	26253	98.3,98.3
120	8.900	8.903	8.934	8.741					110-120	80.32	26334	98.6,98.6
130	10.31	10.32	10.83	10.58					120-130	86.91	26421	98.9,98.9
140	11.66	11.67	12.37	12.07					130-140	86.87	26507	99.2,99.2
150	13.02	13.04	14.00	13.67					140-150	79.48	26587	99.5,99.5
160	14.37	14.37	15.15	14.86					150-160	65.05	26652	99.8,99.8
170	15.41	15.37	15.75	15.49					160-170	42.77	26695	99.9,99.9
180	15.82	15.74	15.90	15.68					170-180	14.93	26710	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6093	5809
80	5713	5470
75	6674	6439
70	7937	7677
65	9782	9271
60	18061	16664
55	24751	24306
50	31189	30618
45	35295	34328

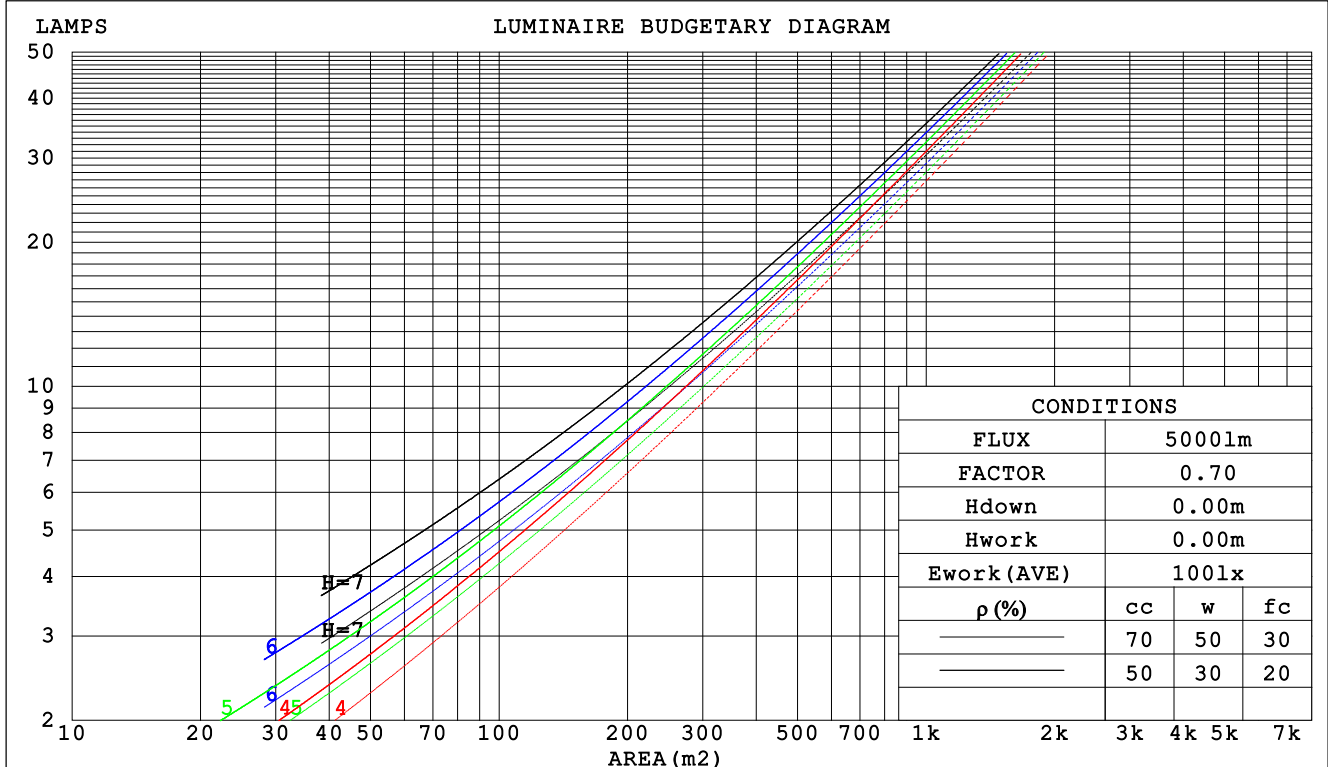
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 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	1.19	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	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.91	.90	.88	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.84	.81	.85	.82	.79	.82	.79	.76	.74
3.0	.85	.77	.72	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.54	.67	.59	.54	.65	.58	.53	.63	.57	.52	.61	.56	.51	.49
6.0	.62	.54	.48	.61	.53	.47	.59	.52	.47	.57	.51	.46	.55	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.46	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.37	.33	.31
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.29



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 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	.254	.144	.046	.246	.140	.045	.232	.133	.042	.219	.126	.040	.207	.120	.039	
2.0	.246	.135	.041	.239	.132	.041	.227	.126	.039	.215	.121	.038	.205	.116	.037	
3.0	.234	.124	.037	.228	.122	.037	.217	.117	.036	.206	.113	.035	.197	.109	.034	
4.0	.220	.114	.034	.215	.113	.033	.205	.109	.033	.196	.105	.032	.188	.102	.031	
5.0	.207	.106	.031	.203	.104	.030	.194	.101	.030	.186	.098	.029	.178	.095	.029	
6.0	.195	.098	.028	.191	.096	.028	.183	.094	.027	.176	.091	.027	.169	.089	.026	
7.0	.184	.091	.026	.180	.090	.026	.173	.087	.025	.166	.085	.025	.160	.083	.024	
8.0	.173	.085	.024	.170	.084	.024	.163	.082	.023	.157	.080	.023	.152	.078	.023	
9.0	.163	.079	.022	.160	.078	.022	.155	.076	.022	.149	.075	.021	.144	.073	.021	
10.0	.155	.074	.021	.152	.073	.020	.147	.072	.020	.142	.070	.020	.137	.069	.020	

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	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.194	.174	.156	.166	.149	.134	.113	.103	.093	.065	.059	.054	.021	.019	.017	
2.0	.184	.150	.121	.157	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014	
3.0	.175	.132	.097	.150	.113	.084	.103	.079	.059	.059	.046	.035	.019	.015	.011	
4.0	.167	.118	.080	.144	.102	.070	.099	.071	.049	.057	.042	.029	.018	.014	.010	
5.0	.160	.107	.068	.138	.093	.059	.095	.065	.042	.055	.038	.025	.018	.012	.008	
6.0	.154	.099	.060	.132	.086	.052	.091	.060	.037	.053	.035	.022	.017	.012	.007	
7.0	.147	.092	.053	.127	.080	.046	.088	.056	.033	.051	.033	.019	.016	.011	.006	
8.0	.142	.086	.048	.122	.075	.042	.084	.052	.030	.049	.031	.018	.016	.010	.006	
9.0	.136	.081	.044	.117	.071	.039	.081	.050	.027	.047	.029	.016	.015	.010	.005	
10.0	.131	.077	.041	.113	.067	.036	.078	.047	.026	.046	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_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:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 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	23.5	24.8	23.8	25.0	25.3	23.3	24.7	23.6	24.9	25.2
3H	23.6	24.8	23.9	25.1	25.3	23.4	24.7	23.7	24.9	25.2
4H	23.6	24.7	23.9	25.0	25.3	23.5	24.6	23.8	24.9	25.2
6H	23.6	24.7	23.9	25.0	25.3	23.4	24.5	23.8	24.8	25.2
8H	23.6	24.6	23.9	24.9	25.3	23.4	24.5	23.8	24.8	25.1
12H	23.6	24.6	23.9	24.9	25.2	23.4	24.4	23.8	24.7	25.1
4H 2H	23.5	24.7	23.8	24.9	25.2	23.4	24.6	23.7	24.8	25.1
3H	23.7	24.7	24.1	25.0	25.4	23.6	24.6	24.0	24.9	25.2
4H	23.8	24.7	24.2	25.0	25.4	23.7	24.6	24.1	24.9	25.3
6H	23.8	24.6	24.3	25.0	25.4	23.7	24.5	24.1	24.9	25.3
8H	23.8	24.6	24.3	25.0	25.4	23.7	24.5	24.2	24.9	25.3
12H	23.9	24.5	24.3	25.0	25.4	23.7	24.4	24.2	24.8	25.3
8H 4H	23.7	24.5	24.2	24.9	25.3	23.6	24.4	24.1	24.8	25.2
6H	23.8	24.4	24.3	24.9	25.4	23.7	24.3	24.2	24.8	25.2
8H	23.9	24.4	24.4	24.9	25.4	23.8	24.3	24.3	24.8	25.3
12H	24.0	24.4	24.5	24.9	25.4	23.8	24.3	24.3	24.8	25.3
12H 4H	23.7	24.4	24.2	24.8	25.2	23.6	24.3	24.0	24.7	25.1
6H	23.8	24.4	24.3	24.8	25.3	23.7	24.2	24.2	24.7	25.2
8H	23.9	24.3	24.4	24.8	25.4	23.8	24.2	24.3	24.7	25.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.7 / - 0.9				
1.5H	+ 0.5 / - 0.8					+ 0.5 / - 0.8				
2.0H	+ 1.6 / - 3.0					+ 1.7 / - 3.0				

CIE Pub.117, 26710 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.4$)
Area: 0.3 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

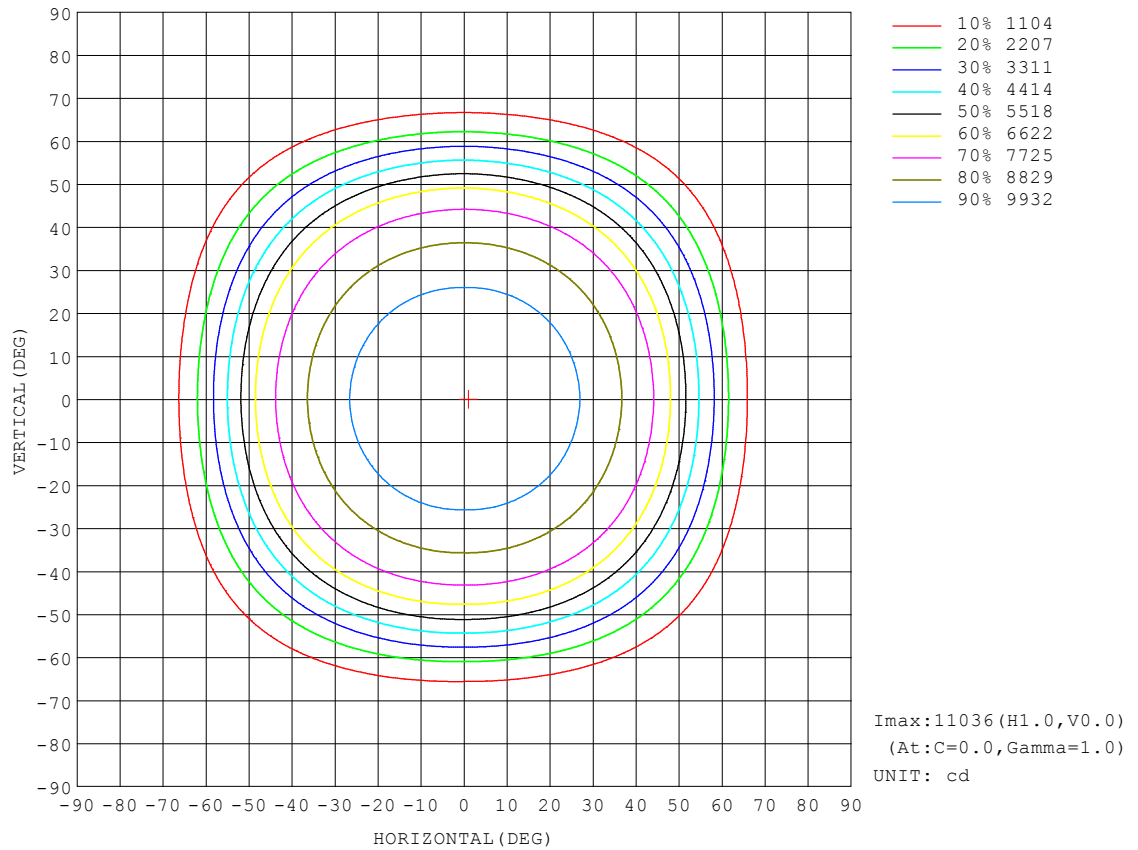
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	45	60	50	44	38
0.80	73	62	55	71	62	55	70	61	55	48
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	73	87	79	73	84	77	72	65
1.50	93	85	79	91	84	78	88	82	77	70
2.00	99	92	87	97	91	86	94	88	84	77
2.50	102	96	91	100	94	90	96	91	87	80
3.00	105	99	95	103	98	93	99	94	91	83
4.00	108	103	99	106	101	98	101	98	95	86
5.00	110	106	102	107	104	101	103	100	97	88
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: 2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

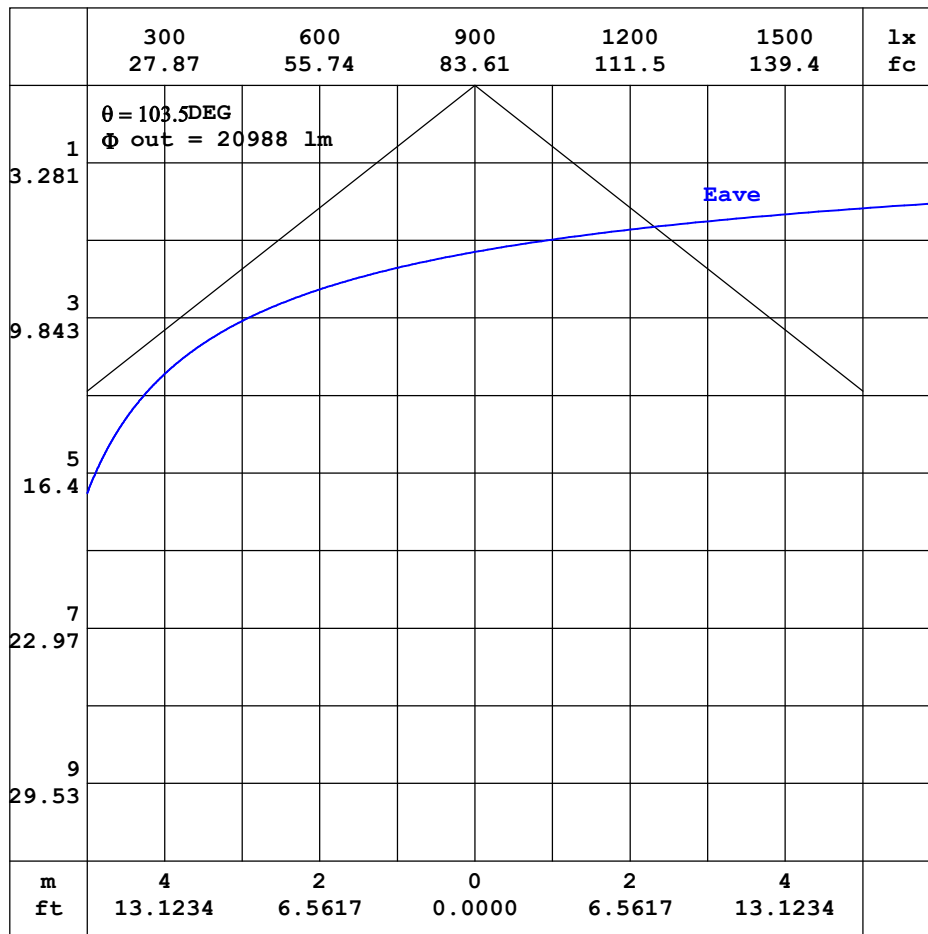


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI CURVES

Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



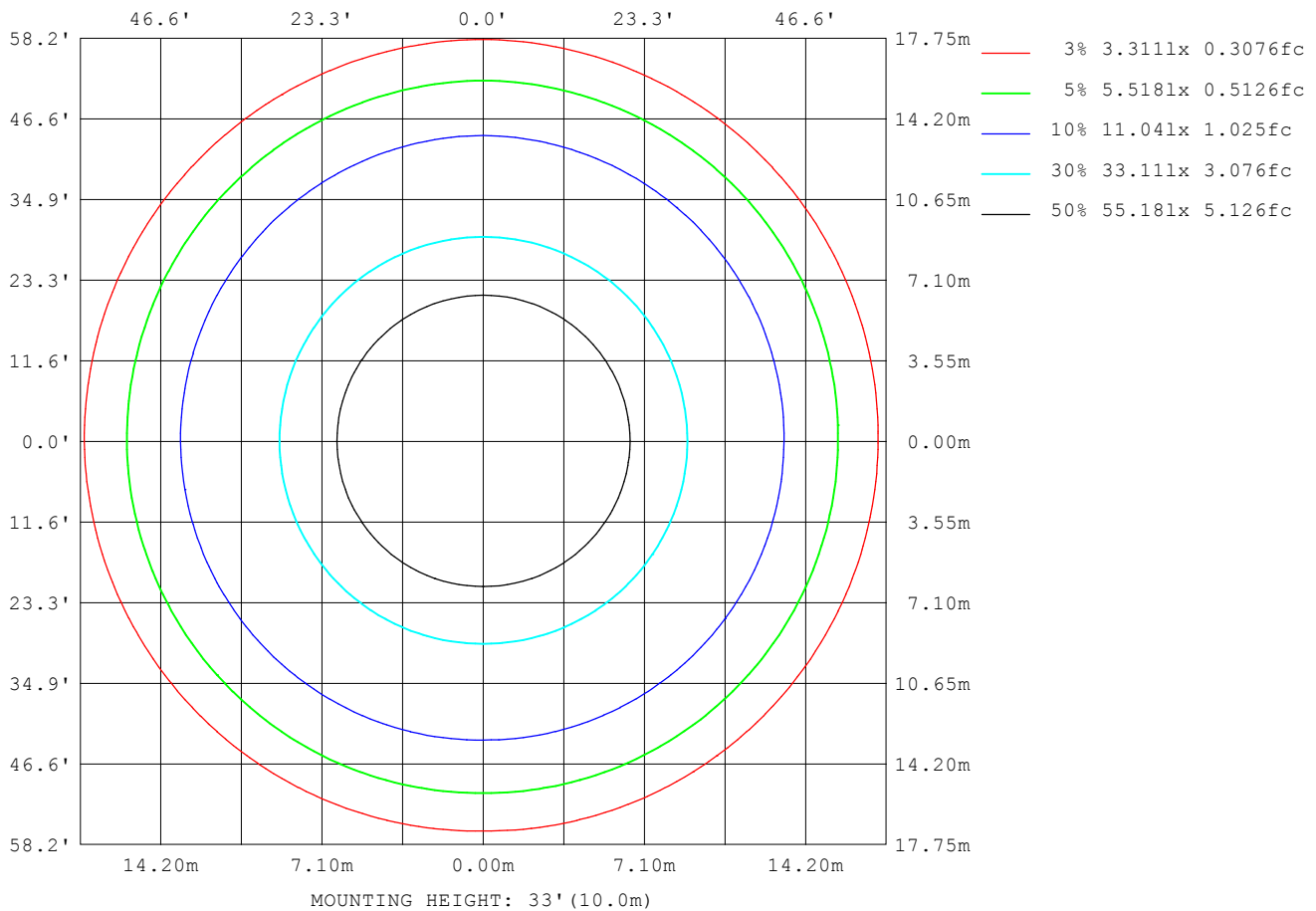
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:218.34V I:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 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:2024-10-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

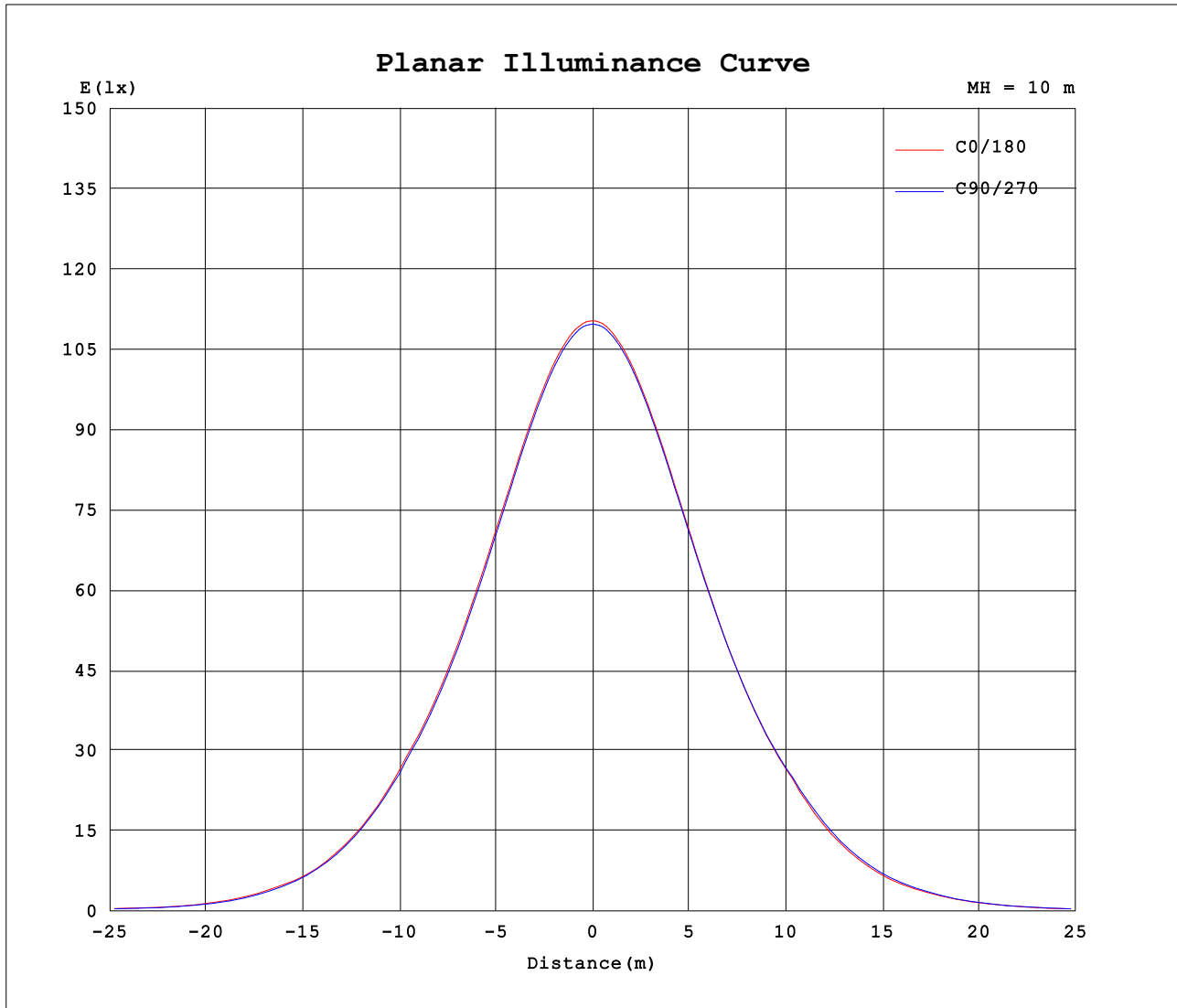
AvgL	cd/m2
L_0~180 (65) av	10376
L_0~180 (75) av	6537
L_0~180 (85) av	5547
L_90~270 (65) av	10328
L_90~270 (75) av	6512
L_90~270 (85) av	5509
L_45 (65) av	10383
L_45 (75) av	6513
L_45 (85) av	5489

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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: 2024-10-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_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:0.9230A P:198.54W PF:0.9852 Freq:49.99Hz Lamp Flux:26709.6x1 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	1104	1098	1104	1098															
5	1101	1094	1100	1094															
10	1090	1082	1088	1082															
15	1072	1063	1070	1064															
20	1045	1036	1043	1037															
25	1010	999	1007	1001															
30	964	952	961	956															
35	906	892	902	900															
40	836	821	832	834															
45	749	728	755	760															
50	601	590	615	633															
55	426	418	443	462															
60	271	250	285	295															
65	124	118	139	144															
70	81.4	78.8	79.4	80.9															
75	51.8	50.0	49.7	51.1															
80	29.8	28.5	27.3	28.3															
85	15.9	15.2	13.1	13.6															
90	8.43	8.31	5.76	6.29															
95	7.87	7.81	5.14	5.07															
100	7.66	7.62	5.66	5.58															
105	7.69	7.67	6.28	6.16															
110	7.91	7.90	7.02	6.87															
115	8.31	8.29	7.94	7.76															
120	8.90	8.90	8.93	8.74															
125	9.59	9.61	9.93	9.71															
130	10.3	10.3	10.8	10.6															
135	11.0	11.0	11.6	11.3															
140	11.7	11.7	12.4	12.1															
145	12.3	12.3	13.2	12.9															
150	13.0	13.0	14.0	13.7															
155	13.7	13.7	14.7	14.3															
160	14.4	14.4	15.1	14.9															
165	14.9	14.9	15.5	15.2															
170	15.4	15.4	15.7	15.5															
175	15.7	15.6	15.9	15.6															
180	15.8	15.7	15.9	15.7															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks: