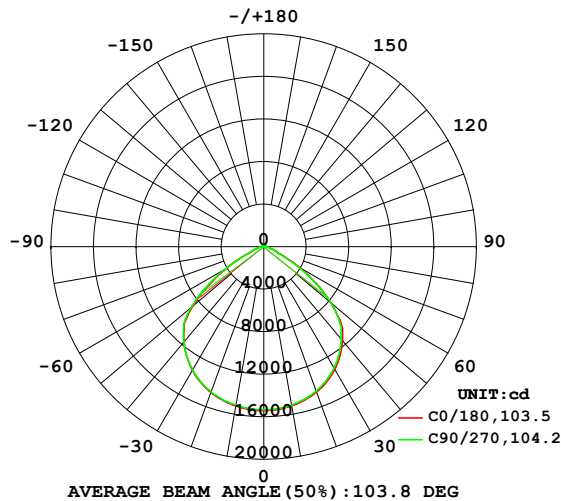


LUMINAIRE PHOTOMETRIC TEST REPORT

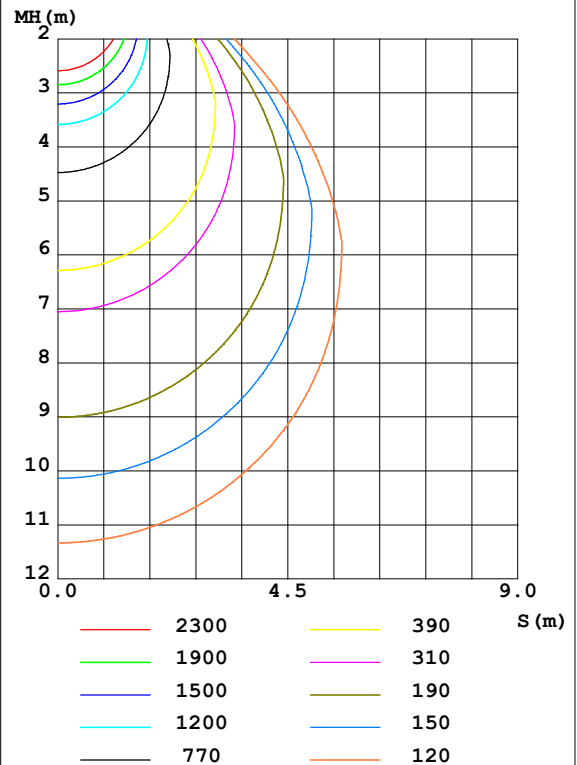
Test:U:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.74 lm/W			
MODEL		Imax(cd)	15413	S/MH(C0/180)	1.29
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	37316	η UP,DN(C0-180)	1.2,48.1
NOMINAL FLUX(lm)	37315.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,49.7
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:

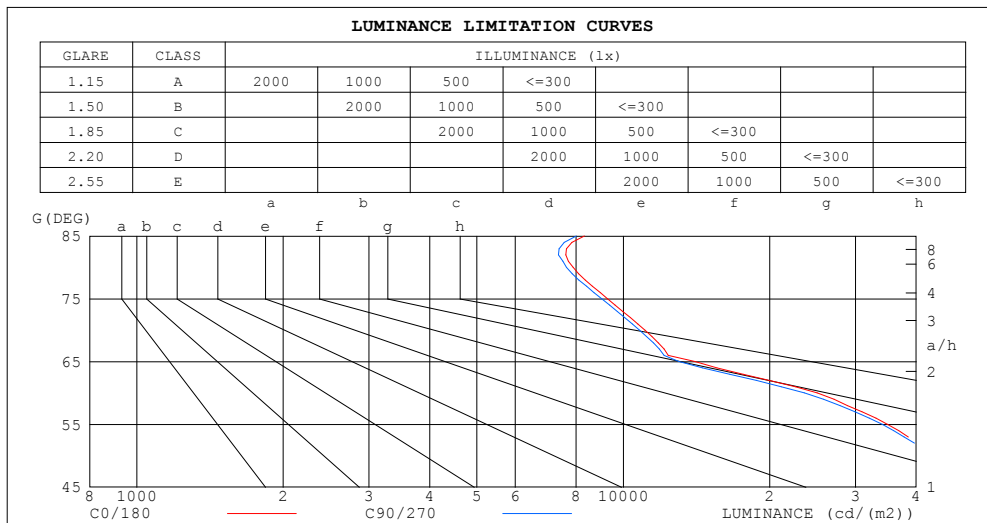
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1520	1512	1521	1514					0- 10	1458	1458	3.91,3.91
20	1453	1444	1459	1452					10- 20	4209	5667	15.2,15.2
30	1336	1320	1343	1340					20- 30	6456	12123	32.5,32.5
40	1152	1134	1167	1170					30- 40	7830	19953	53.5,53.5
50	826.5	827.9	873.7	897.1					40- 50	7935	27888	74.7,74.7
60	375.3	353.4	404.1	416.5					50- 60	5526	33413	89.5,89.5
70	113.7	110.7	111.2	111.0					60- 70	2060	35474	95.1,95.1
80	41.08	39.78	38.69	39.31					70- 80	763.4	36237	97.1,97.1
90	11.73	11.61	8.075	8.609					80- 90	235.7	36473	97.7,97.7
100	10.71	10.68	7.975	7.855					90-100	100.1	36573	98,98
110	11.08	11.07	9.854	9.673					100-110	103.5	36677	98.3,98.3
120	12.48	12.50	12.50	12.27					110-120	112.7	36789	98.6,98.6
130	14.45	14.50	15.15	14.87					120-130	121.9	36911	98.9,98.9
140	16.32	16.36	17.27	16.97					130-140	121.8	37033	99.2,99.2
150	18.21	18.27	19.52	19.19					140-150	111.3	37144	99.5,99.5
160	20.08	20.14	21.10	20.79					150-160	90.99	37235	99.8,99.8
170	21.48	21.48	21.91	21.66					160-170	59.74	37295	99.9,99.9
180	22.00	21.96	22.10	21.89					170-180	20.81	37316	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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8318	8005
80	7886	7636
75	9282	9022
70	11078	10793
65	14026	13006
60	25023	23558
55	34899	34041
50	42860	42931
45	48533	47637

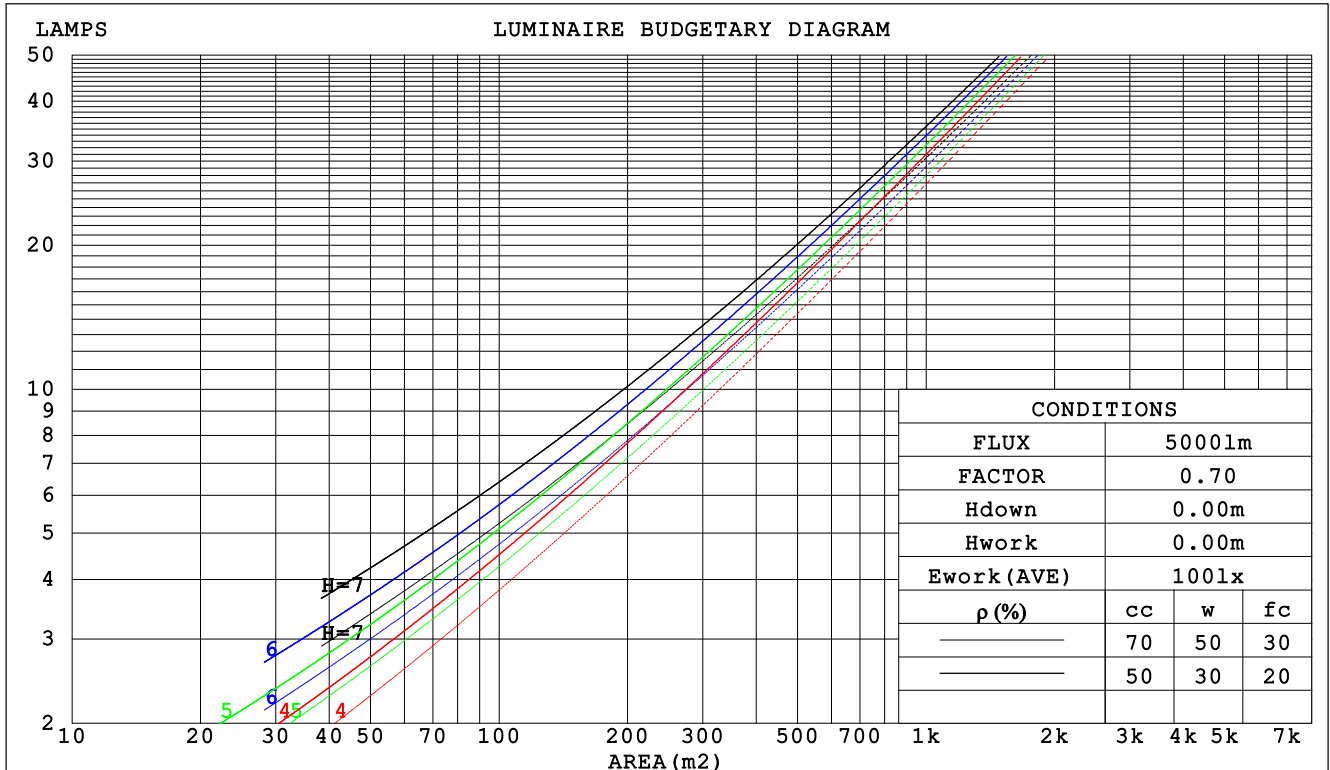
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 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	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.84	.81	.85	.82	.78	.82	.79	.76	.74
3.0	.84	.77	.72	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.64
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	.55	.51	.49
6.0	.62	.53	.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	.50	.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	.46	.39	.34	.45	.38	.34	.44	.38	.33	.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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 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	.118	.036	.207	.113	.035	.197	.109	.034	
4.0	.220	.115	.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	.164	.079	.022	.161	.078	.022	.155	.077	.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	.114	.084	.103	.079	.059	.060	.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	.020	.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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 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	24.6	25.9	24.9	26.1	26.4	24.5	25.8	24.8	26.1	26.3
3H	24.7	25.9	25.0	26.2	26.4	24.6	25.8	24.9	26.1	26.3
4H	24.7	25.9	25.0	26.1	26.4	24.6	25.8	24.9	26.0	26.3
6H	24.7	25.8	25.1	26.1	26.4	24.6	25.7	24.9	26.0	26.3
8H	24.7	25.7	25.1	26.0	26.4	24.6	25.6	24.9	25.9	26.3
12H	24.7	25.7	25.0	26.0	26.3	24.6	25.6	24.9	25.9	26.2
4H 2H	24.6	25.8	24.9	26.1	26.3	24.5	25.7	24.9	26.0	26.3
3H	24.8	25.8	25.2	26.1	26.5	24.7	25.7	25.1	26.0	26.4
4H	24.9	25.8	25.3	26.1	26.5	24.8	25.7	25.2	26.1	26.4
6H	24.9	25.7	25.4	26.1	26.5	24.9	25.7	25.3	26.0	26.4
8H	25.0	25.7	25.4	26.1	26.5	24.9	25.6	25.3	26.0	26.4
12H	25.0	25.6	25.4	26.1	26.5	24.9	25.5	25.3	26.0	26.4
8H 4H	24.8	25.6	25.3	26.0	26.4	24.8	25.5	25.2	25.9	26.3
6H	25.0	25.6	25.4	26.0	26.5	24.9	25.5	25.3	25.9	26.4
8H	25.0	25.5	25.5	26.0	26.5	24.9	25.4	25.4	25.9	26.4
12H	25.1	25.5	25.6	26.0	26.5	25.0	25.4	25.5	25.9	26.4
12H 4H	24.8	25.5	25.3	25.9	26.4	24.7	25.4	25.2	25.8	26.3
6H	24.9	25.5	25.4	25.9	26.4	24.9	25.4	25.3	25.8	26.3
8H	25.0	25.5	25.5	25.9	26.5	24.9	25.4	25.4	25.9	26.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.8					+ 0.7 / - 0.8				
1.5H	+ 0.5 / - 0.8					+ 0.4 / - 0.8				
2.0H	+ 1.6 / - 3.0					+ 1.6 / - 3.0				

CIE Pub.117, 37316 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.6$)
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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

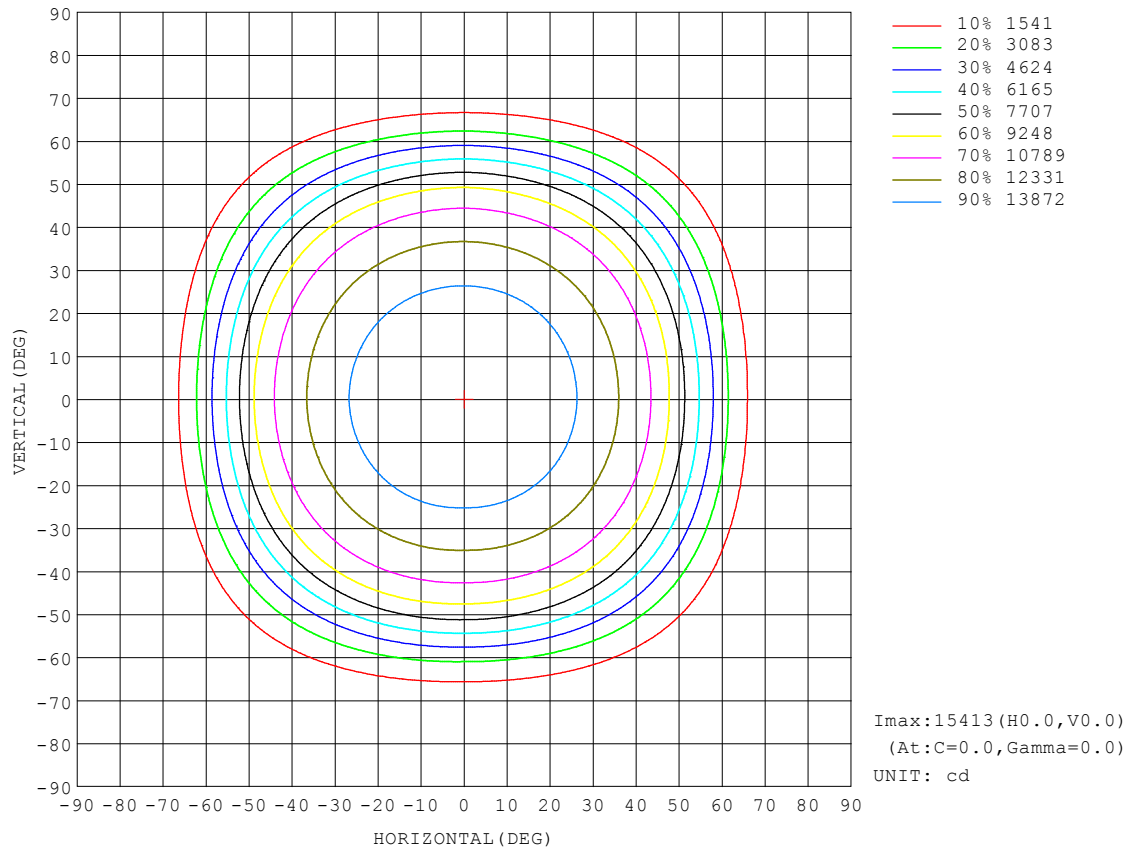
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	44	60	50	44	38
0.80	72	62	55	71	62	55	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	79
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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

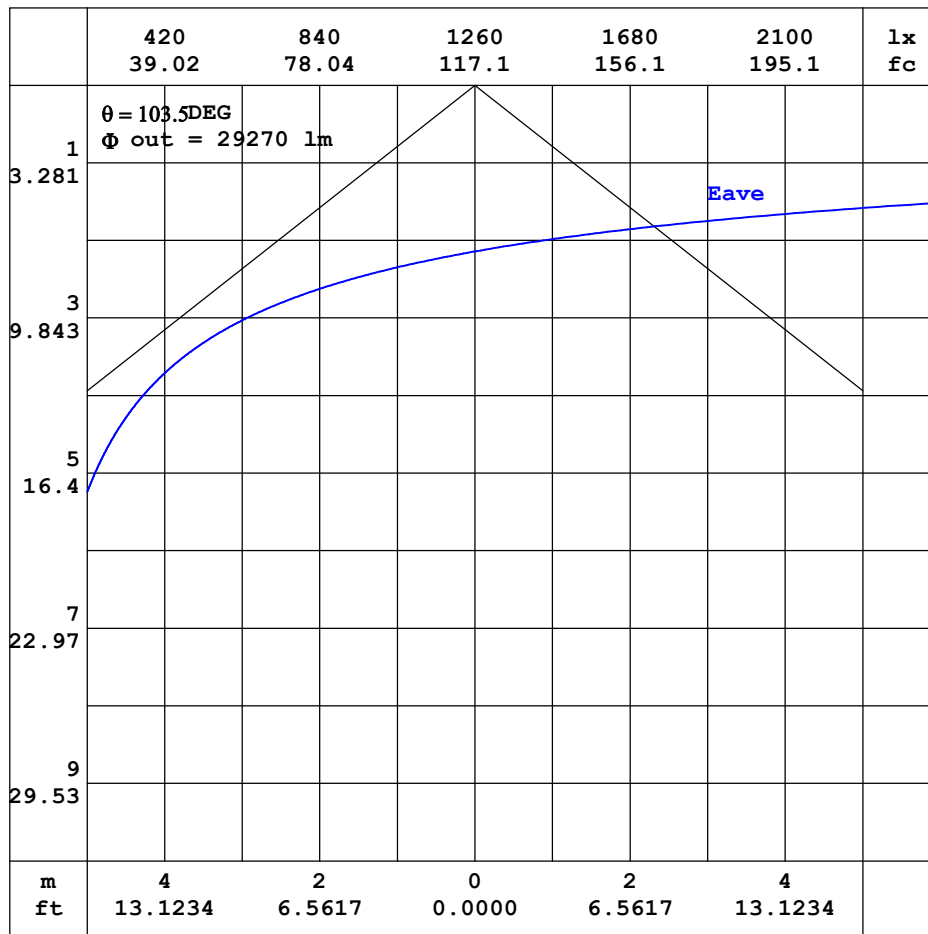


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-14

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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



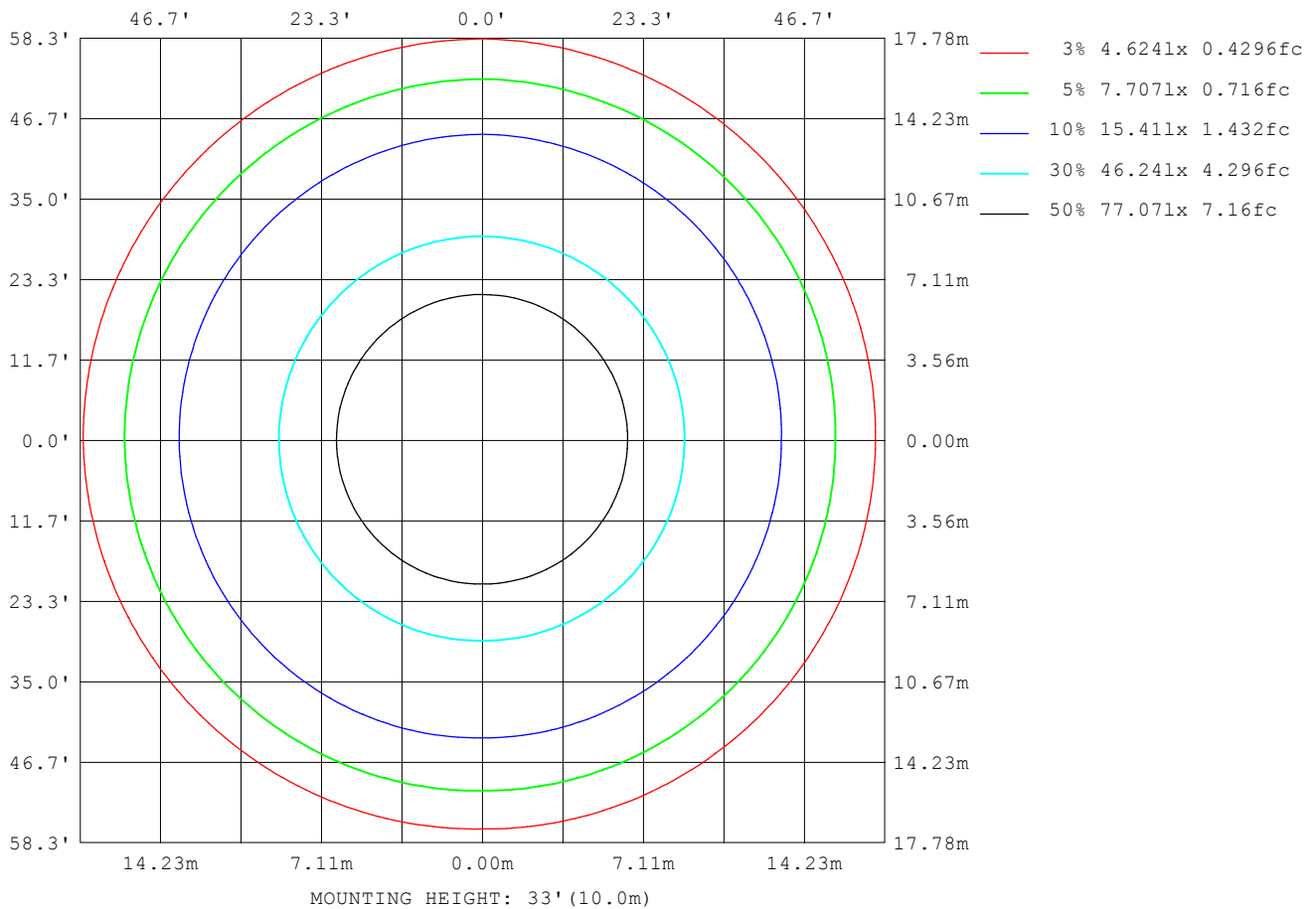
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

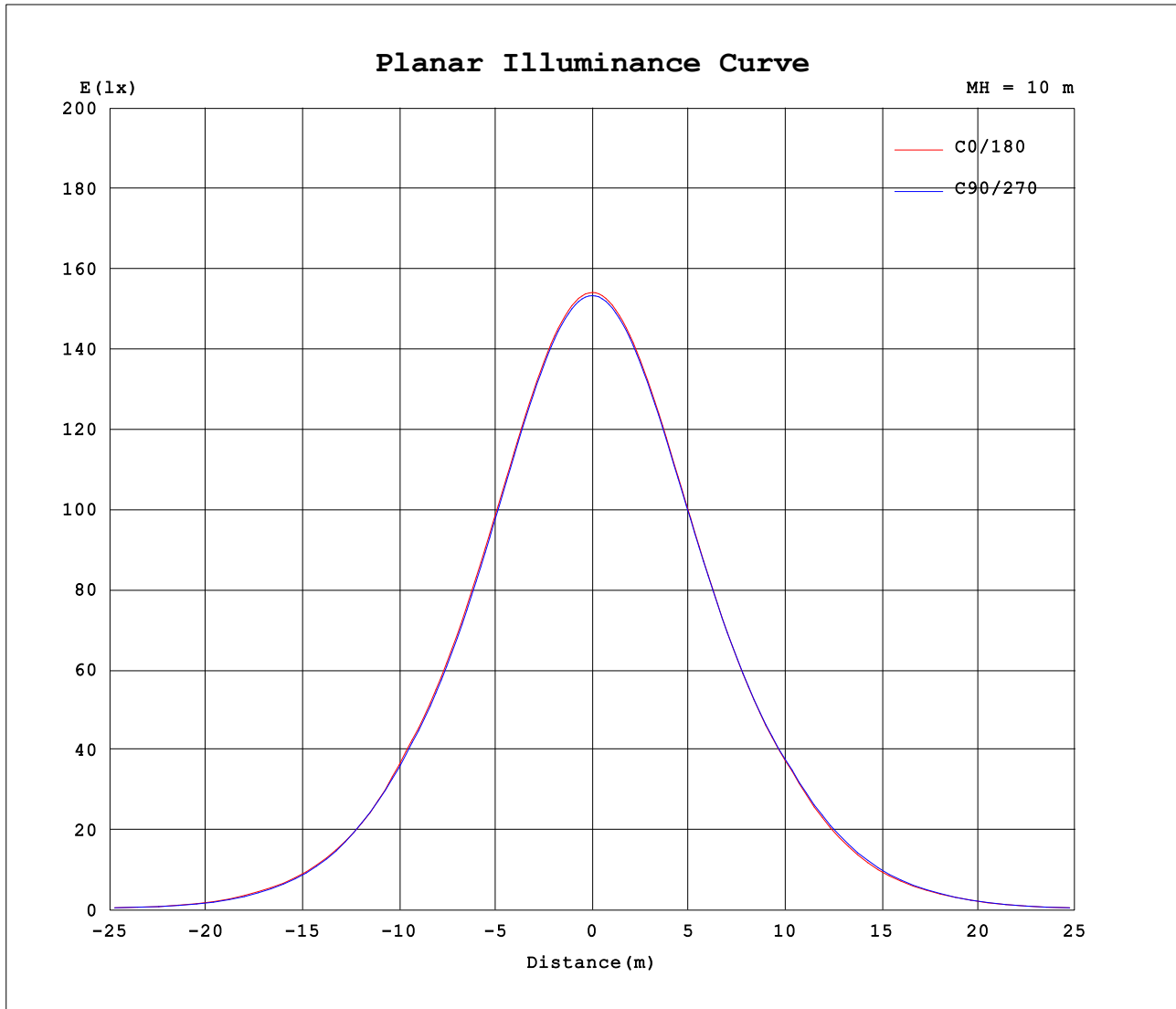
AvgL	cd/m2
L_0~180 (65) av	14767
L_0~180 (75) av	9143
L_0~180 (85) av	7642
L_90~270 (65) av	14372
L_90~270 (75) av	9075
L_90~270 (85) av	7629
L_45 (65) av	14566
L_45 (75) av	9092
L_45 (85) av	7592

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:218.19V I:1.1021A P:238.07W PF:0.9900 Freq:49.99Hz Lamp Flux:37315.7x1 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	1541	1534	1541	1534															
5	1536	1528	1537	1529															
10	1520	1512	1521	1514															
15	1493	1484	1496	1489															
20	1453	1444	1459	1452															
25	1402	1390	1409	1403															
30	1336	1320	1343	1340															
35	1251	1235	1263	1262															
40	1152	1134	1167	1170															
45	1030	1011	1059	1067															
50	826	828	874	897															
55	601	586	631	661															
60	375	353	404	417															
65	178	165	197	200															
70	114	111	111	111															
75	72.1	70.1	69.9	70.9															
80	41.1	39.8	38.7	39.3															
85	21.7	20.9	18.2	19.0															
90	11.7	11.6	8.08	8.61															
95	11.0	10.9	7.25	7.15															
100	10.7	10.7	7.98	7.86															
105	10.8	10.8	8.82	8.68															
110	11.1	11.1	9.85	9.67															
115	11.6	11.6	11.1	10.9															
120	12.5	12.5	12.5	12.3															
125	13.5	13.5	13.9	13.6															
130	14.5	14.5	15.1	14.9															
135	15.4	15.4	16.2	16.0															
140	16.3	16.4	17.3	17.0															
145	17.2	17.3	18.4	18.1															
150	18.2	18.3	19.5	19.2															
155	19.2	19.2	20.4	20.1															
160	20.1	20.1	21.1	20.8															
165	20.9	20.9	21.6	21.3															
170	21.5	21.5	21.9	21.7															
175	21.8	21.8	22.1	21.8															
180	22.0	22.0	22.1	21.9															

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: