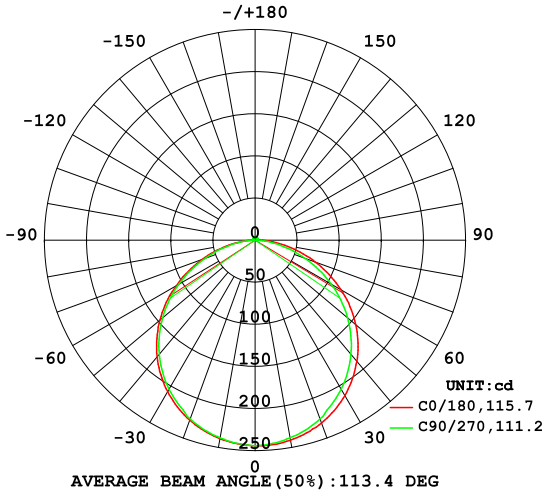
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57591WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

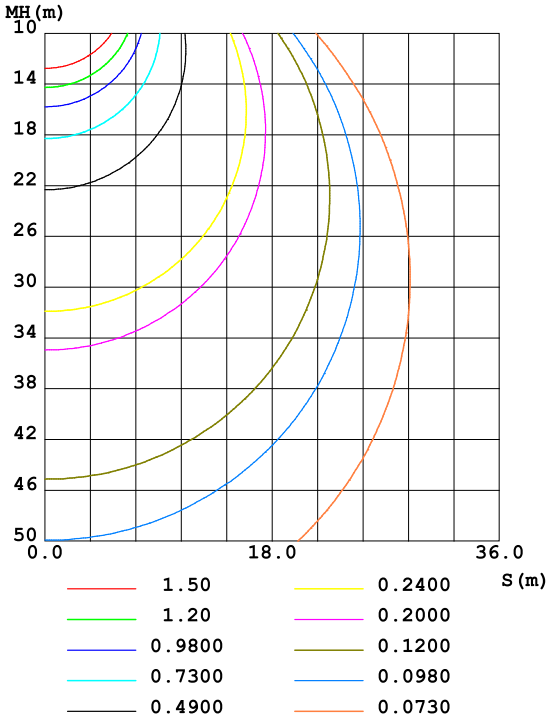
DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.81 lm/W			
MODEL	2700K	Imax(cd)	244.3	S/MH(C0/180)	1.27
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	721.32	η UP,DN(C0-180)	1.1,49.7
NOMINAL FLUX(lm)	721.319	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.2,48.0
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	97.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):113.4 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	241.5	238.6	239.4	238.6					0- 10	23.06	23.06	3.2,3.2
20	230.9	225.7	227.3	225.7					10- 20	66.16	89.22	12.4,12.4
30	213.3	204.5	207.7	204.5					20- 30	100.6	189.8	26.3,26.3
40	188.0	177.2	180.8	177.2					30- 40	122.0	311.8	43.2,43.2
50	156.0	143.4	147.5	143.4					40- 50	127.2	439.0	60.9,60.9
60	117.7	104.4	108.0	104.4					50- 60	115.0	554.0	76.8,76.8
70	76.38	62.81	66.93	62.81					60- 70	87.02	641.0	88.9,88.9
80	36.15	24.36	28.07	24.36					70- 80	49.77	690.8	95.8,95.8
90	3.601	1.915	1.908	1.915					80- 90	14.03	704.8	97.7,97.7
100	2.026	2.156	2.134	2.156					90-100	2.206	707.0	98,98
110	2.286	2.405	2.375	2.405					100-110	2.371	709.4	98.3,98.3
120	2.542	2.646	2.616	2.646					110-120	2.474	711.8	98.7,98.7
130	2.754	2.850	2.839	2.850					120-130	2.439	714.3	99,99
140	2.950	3.036	3.028	3.036					130-140	2.255	716.5	99.3,99.3
150	3.136	3.210	3.188	3.210					140-150	1.944	718.5	99.6,99.6
160	3.329	3.418	3.381	3.418					150-160	1.518	720.0	99.8,99.8
170	3.515	3.555	3.537	3.555					160-170	0.9818	721.0	100,100
180	3.611	3.615	3.633	3.615					170-180	0.3410	721.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 375.81 lm

%lum = 52.1%
%lamp = 52.1%

Conical surface Flux(120deg): 553.98 lm

%lum = 76.8%
%lamp = 76.8%

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

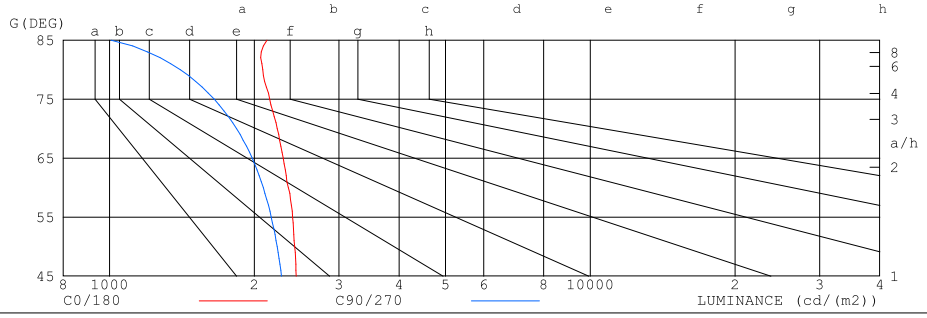
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2124	1007
80	2082	1403
75	2152	1650
70	2233	1836
65	2296	1980
60	2354	2088
55	2402	2169
50	2427	2231
45	2445	2278

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

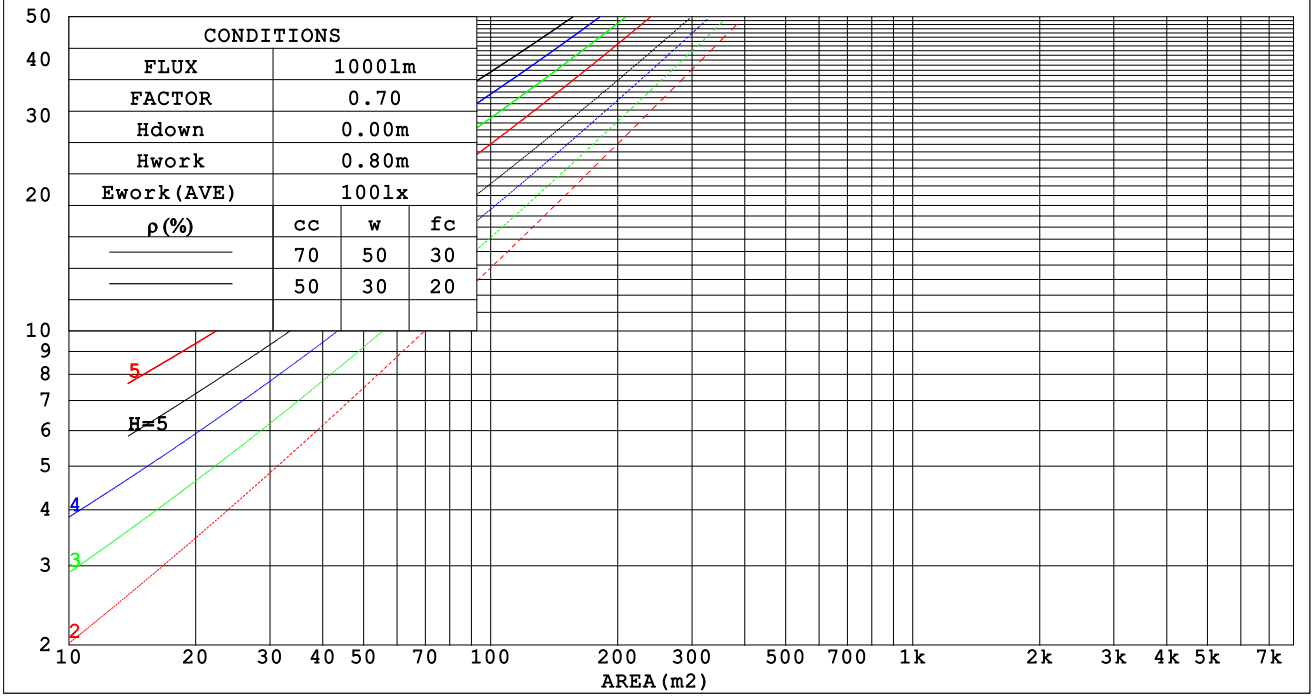
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.71	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.65	.58	.53	.63	.57	.52	.60	.55	.51	.48
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.45	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.310	.176	.056	.303	.173	.055	.288	.165	.053	.275	.158	.051	.262	.152	.049	
2.0	.292	.160	.049	.285	.157	.048	.272	.151	.047	.260	.146	.046	.249	.141	.044	
3.0	.270	.144	.043	.264	.141	.043	.252	.137	.042	.242	.132	.041	.232	.128	.040	
4.0	.249	.129	.038	.244	.127	.038	.233	.124	.037	.224	.120	.036	.215	.117	.036	
5.0	.230	.117	.034	.225	.116	.034	.216	.113	.033	.208	.110	.033	.200	.107	.032	
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.193	.100	.030	.186	.098	.029	
7.0	.199	.098	.028	.195	.097	.028	.187	.095	.027	.180	.093	.027	.174	.090	.027	
8.0	.185	.091	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.163	.084	.024	
9.0	.174	.084	.023	.171	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.074	.021	.145	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.198	.174	.152	.169	.149	.131	.116	.103	.090	.067	.059	.053	.021	.019	.017	
2.0	.190	.150	.116	.163	.129	.100	.111	.089	.070	.064	.052	.041	.021	.017	.013	
3.0	.182	.132	.092	.156	.114	.080	.107	.079	.056	.062	.046	.033	.020	.015	.011	
4.0	.175	.119	.076	.150	.103	.066	.103	.072	.047	.060	.042	.028	.019	.014	.009	
5.0	.167	.109	.065	.144	.094	.057	.099	.066	.040	.057	.039	.024	.018	.013	.008	
6.0	.160	.100	.057	.138	.087	.050	.095	.061	.035	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.051	.132	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.147	.088	.047	.126	.076	.041	.088	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.141	.083	.043	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.041	.117	.068	.035	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
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	17.0	18.5	17.3	18.8	19.0	16.6	18.1	16.9	18.3	18.6
3H	18.7	20.0	19.0	20.3	20.6	18.0	19.4	18.4	19.7	20.0
4H	19.4	20.7	19.7	21.0	21.3	18.6	19.9	18.9	20.2	20.5
6H	19.9	21.1	20.3	21.4	21.8	18.9	20.2	19.3	20.5	20.8
8H	20.1	21.3	20.5	21.6	22.0	19.0	20.2	19.4	20.5	20.9
12H	20.3	21.4	20.6	21.7	22.1	19.1	20.2	19.4	20.5	20.9
4H 2H	17.6	18.9	18.0	19.2	19.5	17.3	18.6	17.6	18.9	19.2
3H	19.4	20.6	19.8	20.9	21.2	18.9	20.0	19.3	20.4	20.7
4H	20.2	21.3	20.6	21.6	22.0	19.5	20.6	20.0	21.0	21.3
6H	20.9	21.8	21.3	22.2	22.6	20.0	20.9	20.5	21.3	21.8
8H	21.2	22.0	21.6	22.4	22.9	20.2	21.0	20.6	21.4	21.9
12H	21.4	22.2	21.8	22.6	23.1	20.2	21.0	20.7	21.5	21.9
8H 4H	20.5	21.3	20.9	21.7	22.2	19.9	20.7	20.3	21.1	21.6
6H	21.3	22.0	21.8	22.4	22.9	20.5	21.2	21.0	21.6	22.1
8H	21.6	22.3	22.1	22.7	23.3	20.7	21.3	21.2	21.8	22.3
12H	22.0	22.5	22.5	23.0	23.5	20.8	21.4	21.4	21.9	22.4
12H 4H	20.5	21.2	20.9	21.7	22.1	19.9	20.7	20.3	21.1	21.6
6H	21.3	22.0	21.8	22.4	22.9	20.6	21.2	21.1	21.7	22.2
8H	21.7	22.3	22.2	22.8	23.3	20.8	21.4	21.3	21.9	22.4

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.1 / - 0.2	+ 0.2 / - 0.2
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.4
2.0H	+ 0.2 / - 0.2	+ 0.2 / - 0.4

CIE Pub.117, 721.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)
Area: 0.1 m2

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

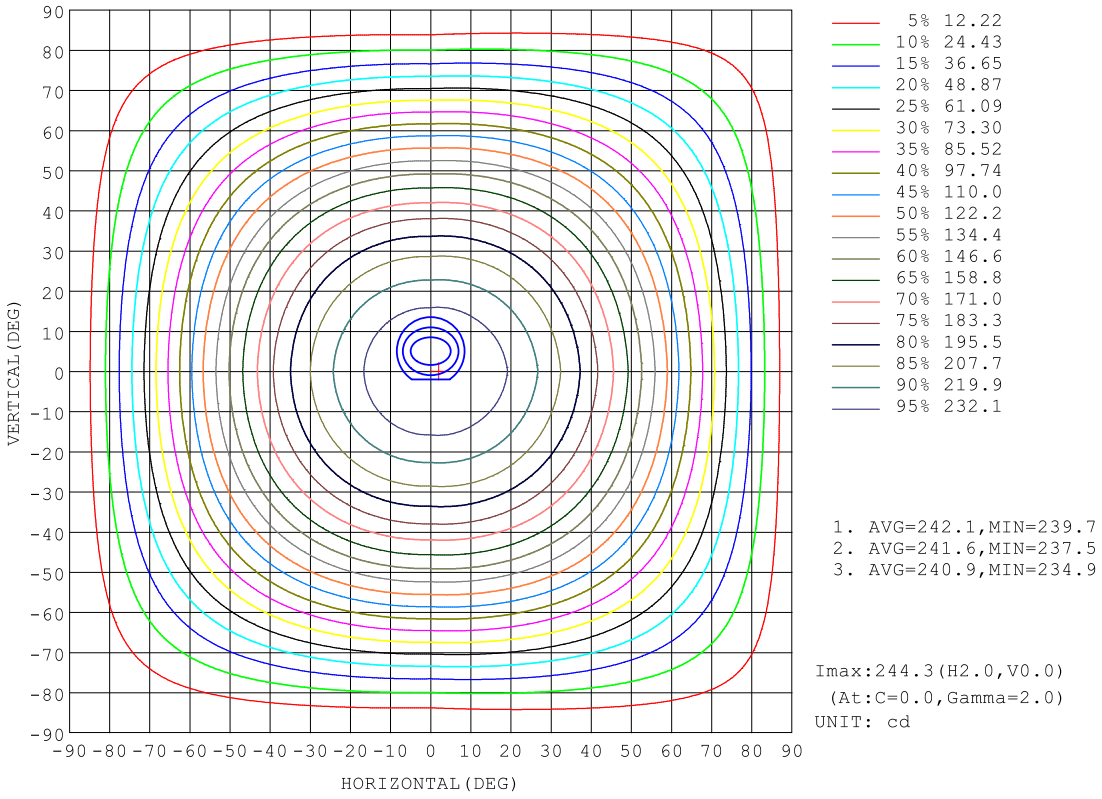
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	54	44	38	31
0.80	67	55	48	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	56	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	70	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended								SHRNOM = 1.25	

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

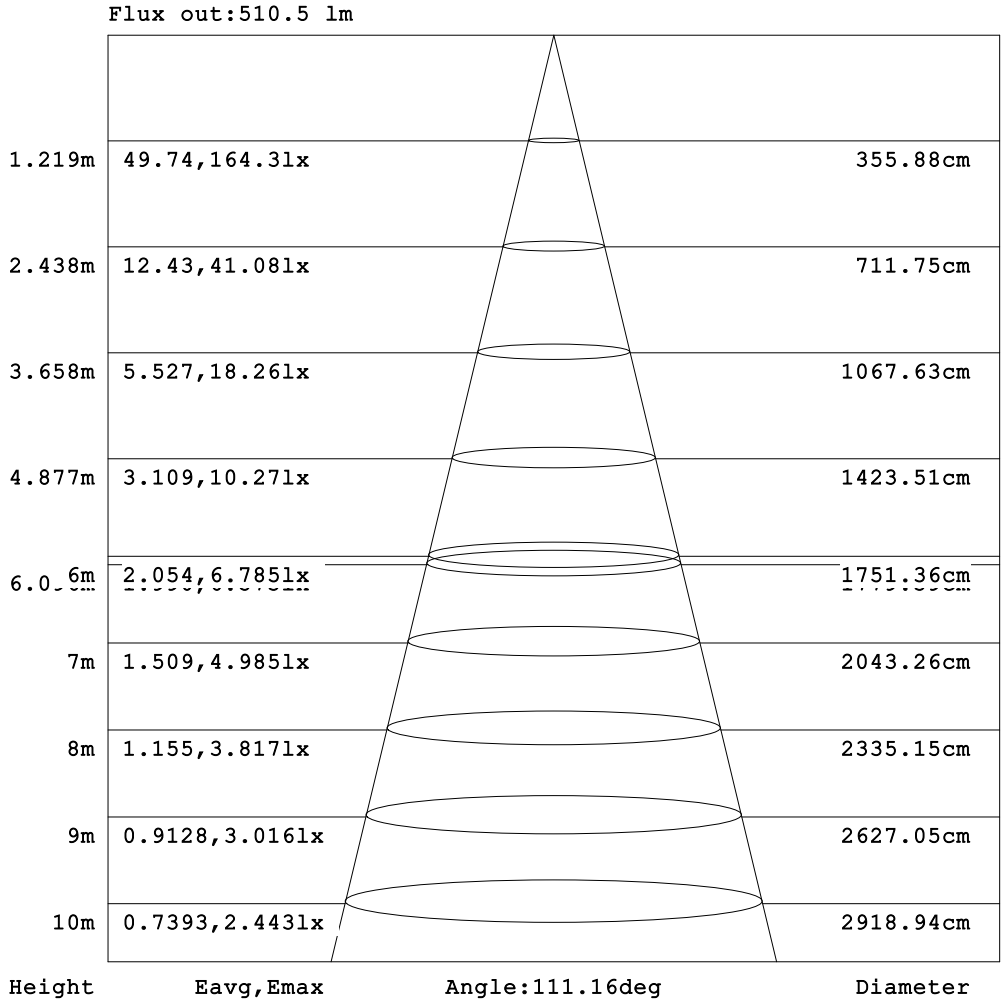


C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



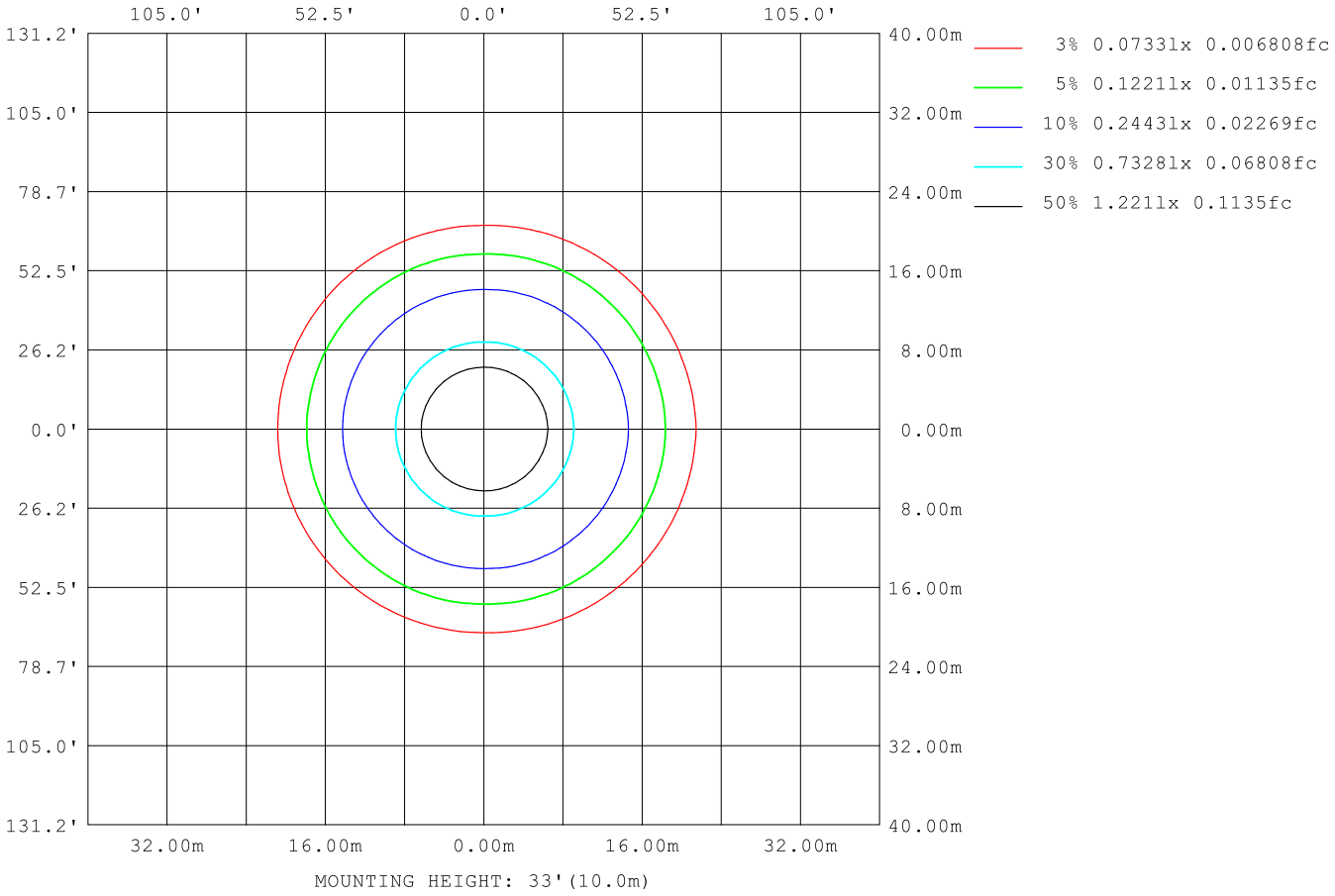
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

D:\测试数据\3-样品测试\LT\2024年\LT24211\FM5-373-WH 12W 27K.GOS

LED Avg.L Report

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

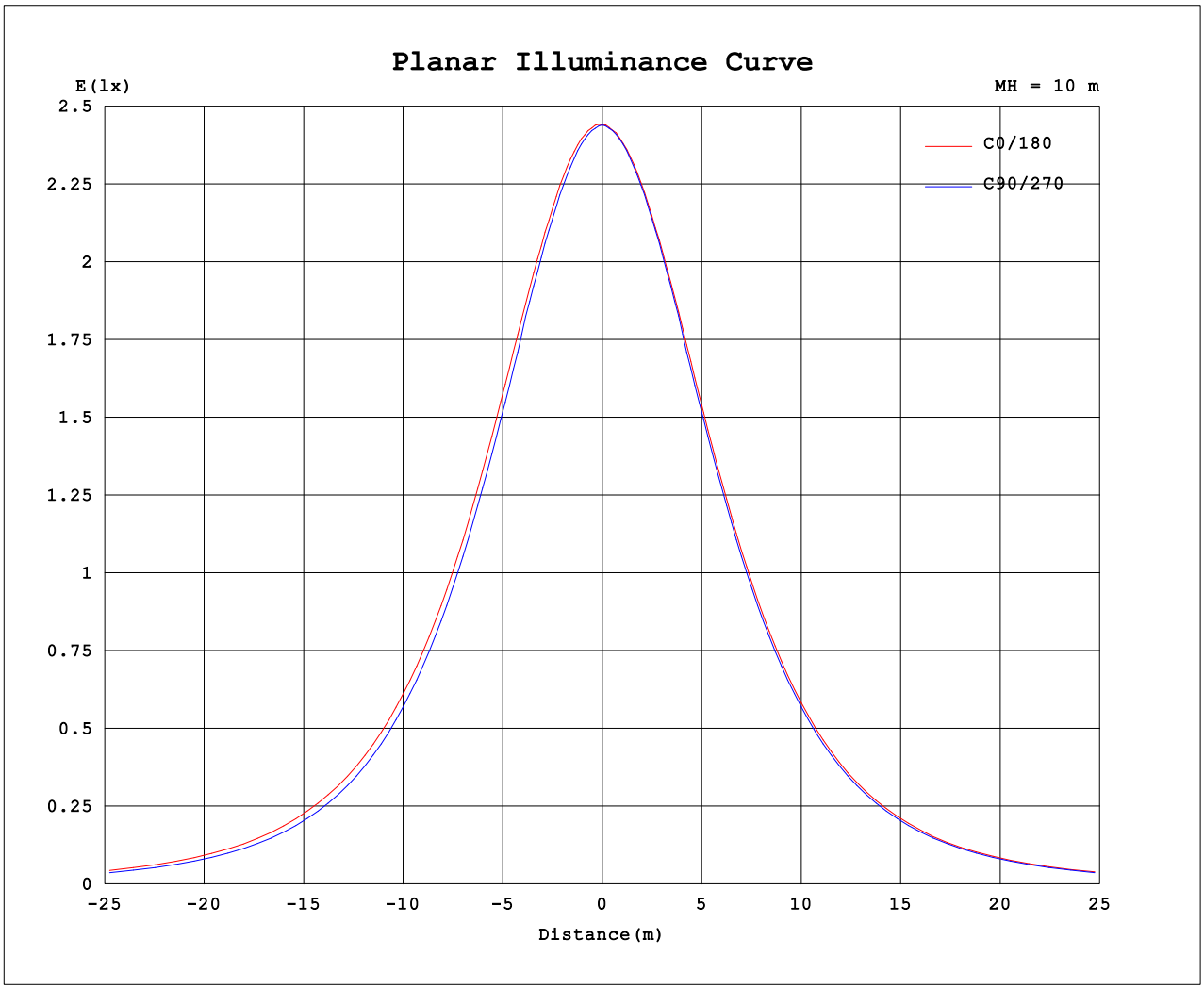
AvgL	cd/m2
L_0~180(65)av	2182
L_0~180(75)av	1978
L_0~180(85)av	1734
L_90~270(65)av	1980
L_90~270(75)av	1650
L_90~270(85)av	1007
L_45(65)av	2049
L_45(75)av	1762
L_45(85)av	1255

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.41V I:0.1033A P:11.484W PF:0.9233 Freq:59.98Hz Lamp Flux:721.319x1 lm		
NAME: 57597WTWT 12W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270															
0	244	244	244	244															
5	244	242	243	242															
10	241	239	239	239															
15	237	233	234	233															
20	231	226	227	226															
25	223	215	218	215															
30	213	204	208	204															
35	201	192	195	192															
40	188	177	181	177															
45	173	161	165	161															
50	156	143	148	143															
55	138	124	129	124															
60	118	104	108	104															
65	97.0	83.7	87.4	83.7															
70	76.4	62.8	66.9	62.8															
75	55.7	42.7	46.7	42.7															
80	36.2	24.4	28.1	24.4															
85	18.5	8.78	11.7	8.78															
90	3.60	1.92	1.91	1.92															
95	1.91	2.03	2.00	2.03															
100	2.03	2.16	2.13	2.16															
105	2.15	2.28	2.25	2.28															
110	2.29	2.41	2.38	2.41															
115	2.42	2.53	2.50	2.53															
120	2.54	2.65	2.62	2.65															
125	2.66	2.75	2.72	2.75															
130	2.75	2.85	2.84	2.85															
135	2.85	2.94	2.92	2.94															
140	2.95	3.04	3.03	3.04															
145	3.04	3.13	3.10	3.13															
150	3.14	3.21	3.19	3.21															
155	3.25	3.31	3.27	3.31															
160	3.33	3.42	3.38	3.42															
165	3.43	3.50	3.46	3.50															
170	3.51	3.56	3.54	3.56															
175	3.56	3.60	3.61	3.60															
180	3.61	3.61	3.63	3.61															

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:19 July 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
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