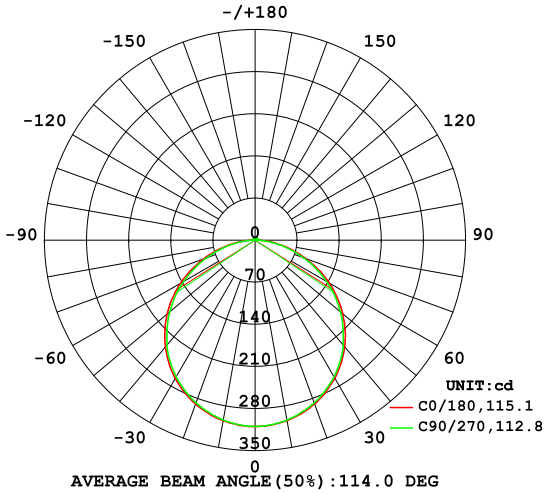
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

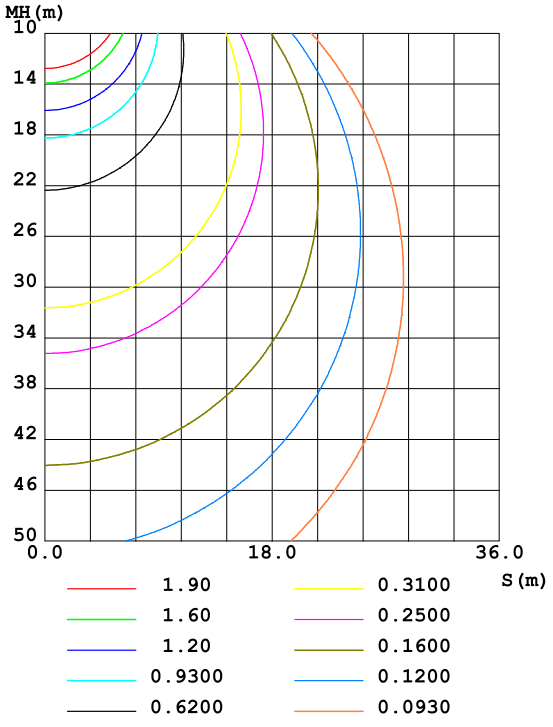
DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.98 lm/W			
MODEL	2700K	Imax(cd)	309.9	S/MH(C0/180)	1.27
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	924.33	η UP,DN(C0-180)	1.1,48.8
NOMINAL FLUX(lm)	924.33	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,48.9
LAMPS INSIDE	1	η up(%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	97.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):114.0 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:01 August 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	304.7	303.7	304.8	303.7					0- 10	29.30	29.30	3.17,3.17
20	289.6	287.9	289.7	287.9					10- 20	84.01	113.3	12.3,12.3
30	265.1	262.5	265.3	262.5					20- 30	127.9	241.2	26.1,26.1
40	231.6	228.3	232.2	228.3					30- 40	155.1	396.3	42.9,42.9
50	190.3	185.1	190.7	185.1					40- 50	161.6	557.9	60.4,60.4
60	142.3	137.1	143.1	137.1					50- 60	147.0	704.9	76.3,76.3
70	90.03	85.40	90.83	85.40					60- 70	112.8	817.7	88.5,88.5
80	40.52	36.41	41.49	36.41					70- 80	66.22	883.9	95.6,95.6
90	2.470	2.394	2.598	2.394					80- 90	19.72	903.7	97.8,97.8
100	2.606	2.680	2.619	2.680					90-100	2.732	906.4	98.1,98.1
110	2.921	2.999	2.938	2.999					100-110	2.967	909.4	98.4,98.4
120	3.225	3.296	3.250	3.296					110-120	3.095	912.5	98.7,98.7
130	3.496	3.560	3.506	3.560					120-130	3.049	915.5	99,99
140	3.733	3.797	3.748	3.797					130-140	2.824	918.3	99.4,99.4
150	3.970	4.013	3.974	4.013					140-150	2.435	920.8	99.6,99.6
160	4.219	4.284	4.216	4.284					150-160	1.905	922.7	99.8,99.8
170	4.437	4.476	4.420	4.476					160-170	1.233	923.9	100,100
180	4.530	4.547	4.543	4.547					170-180	0.4286	924.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 477.62 lm

%lum = 51.7%
%lamp = 51.7%

Conical surface Flux(130deg): 766.66 lm

%lum = 82.9%
%lamp = 82.9%

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:01 August 2024

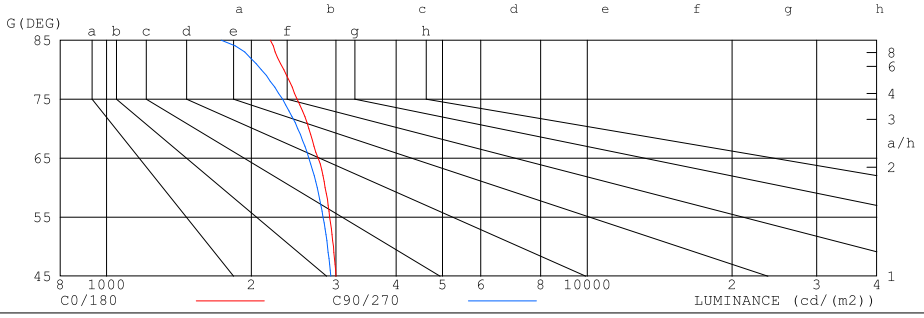
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.382m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	2190	1732
80	2336	2096
75	2491	2322
70	2635	2497
65	2754	2636
60	2848	2742
55	2912	2821
50	2963	2880
45	3000	2926

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:01 August 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:

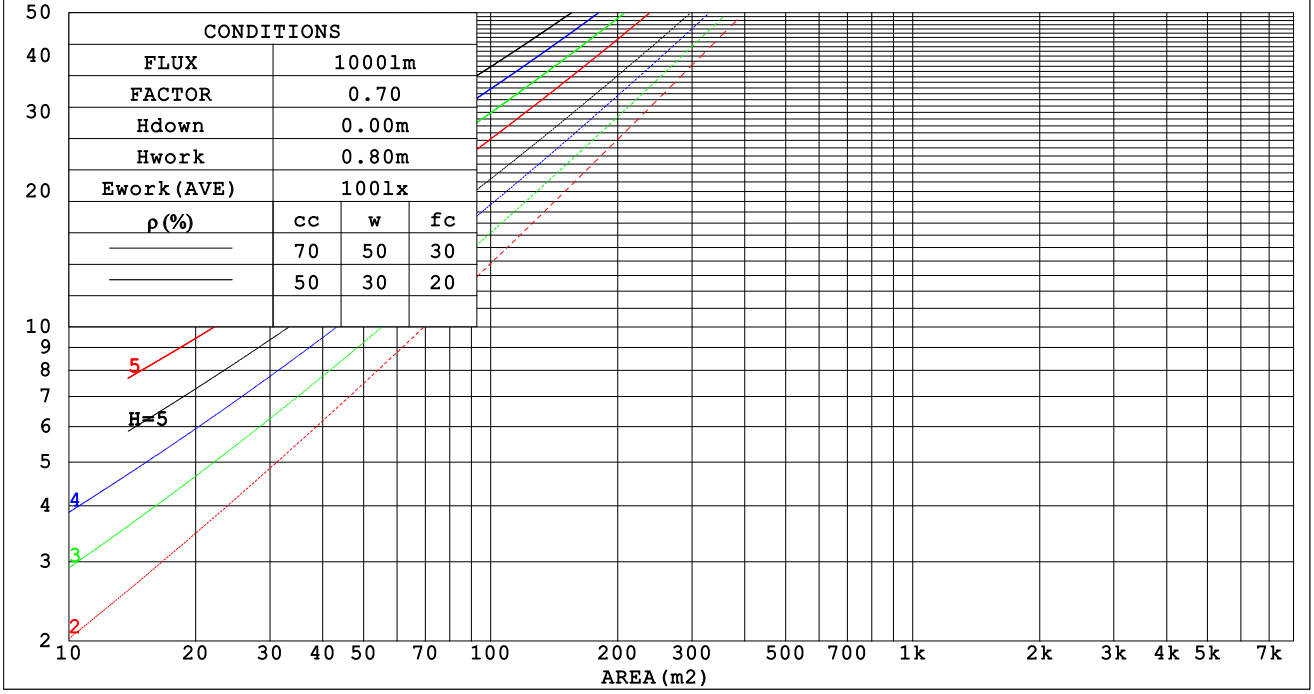
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	.81
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.67
3.0	.79	.70	.64	.77	.69	.63	.73	.67	.62	.70	.65	.60	.68	.63	.59	.57
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.44	.54	.48	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.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:01 August 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:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	.314	.179	.057	.306	.175	.055	.292	.167	.053	.278	.161	.052	.266	.154	.050	
2.0	.294	.161	.049	.287	.158	.049	.274	.153	.047	.262	.147	.046	.251	.142	.045	
3.0	.272	.145	.043	.265	.142	.043	.254	.138	.042	.243	.133	.041	.234	.129	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.124	.037	.225	.121	.036	.216	.118	.036	
5.0	.231	.118	.034	.226	.116	.034	.217	.113	.033	.209	.110	.033	.201	.107	.032	
6.0	.214	.107	.031	.210	.106	.031	.202	.103	.030	.194	.101	.030	.187	.098	.029	
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.186	.091	.026	.182	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.024	
9.0	.174	.084	.024	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.164	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.146	.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	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.198	.173	.151	.169	.149	.130	.116	.102	.090	.067	.059	.052	.021	.019	.017	
2.0	.190	.149	.115	.163	.128	.099	.111	.089	.069	.064	.052	.041	.021	.017	.013	
3.0	.182	.132	.091	.156	.114	.079	.107	.079	.056	.062	.046	.033	.020	.015	.011	
4.0	.175	.118	.076	.150	.102	.066	.103	.071	.046	.060	.042	.027	.019	.014	.009	
5.0	.167	.108	.065	.144	.094	.056	.099	.065	.040	.057	.038	.024	.018	.013	.008	
6.0	.160	.100	.057	.138	.086	.049	.095	.061	.035	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.051	.132	.081	.044	.091	.056	.031	.053	.033	.019	.017	.011	.006	
8.0	.147	.087	.046	.126	.076	.040	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.141	.082	.043	.121	.071	.037	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.040	.116	.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:01 August 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:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	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	16.8	18.3	17.1	18.5	18.8	16.6	18.1	16.9	18.4	18.6
3H	18.3	19.7	18.7	20.0	20.3	18.1	19.5	18.5	19.8	20.1
4H	19.0	20.3	19.3	20.6	20.9	18.7	20.1	19.1	20.3	20.7
6H	19.5	20.7	19.8	21.0	21.3	19.2	20.4	19.5	20.7	21.1
8H	19.6	20.8	20.0	21.1	21.5	19.3	20.5	19.7	20.8	21.2
12H	19.7	20.9	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.2
4H 2H	17.4	18.7	17.7	19.0	19.3	17.3	18.6	17.6	18.9	19.2
3H	19.1	20.3	19.5	20.6	20.9	18.9	20.1	19.3	20.4	20.8
4H	19.9	20.9	20.3	21.3	21.7	19.7	20.7	20.1	21.1	21.5
6H	20.5	21.4	20.9	21.8	22.2	20.2	21.2	20.7	21.6	22.0
8H	20.7	21.6	21.2	22.0	22.4	20.4	21.3	20.9	21.7	22.1
12H	20.9	21.7	21.3	22.1	22.6	20.6	21.4	21.0	21.8	22.2
8H 4H	20.1	21.0	20.6	21.4	21.8	20.0	20.8	20.4	21.2	21.7
6H	20.9	21.6	21.4	22.1	22.5	20.7	21.4	21.2	21.8	22.3
8H	21.2	21.9	21.7	22.3	22.8	21.0	21.6	21.5	22.1	22.6
12H	21.5	22.0	22.0	22.5	23.0	21.2	21.7	21.7	22.2	22.7
12H 4H	20.1	20.9	20.6	21.4	21.8	20.0	20.8	20.4	21.2	21.7
6H	21.0	21.6	21.5	22.1	22.6	20.7	21.4	21.2	21.8	22.3
8H	21.3	21.9	21.8	22.4	22.9	21.1	21.6	21.6	22.1	22.6
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 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 924.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)
Area: 0.1 m2

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:01 August 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:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

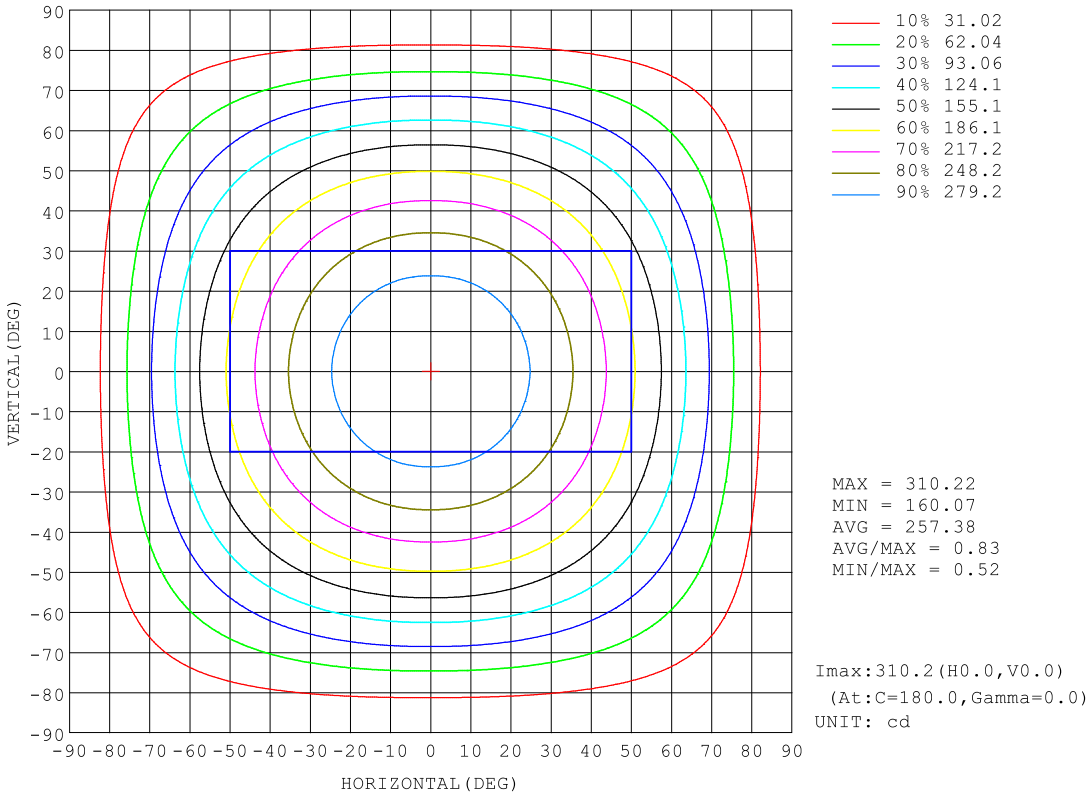
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	56	45	38	56	44	38	54	44	37	31
0.80	66	55	47	65	54	47	63	53	47	39
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	70	64	77	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	91	85	81	72
3.00	101	94	89	99	93	87	95	89	85	76
4.00	105	99	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:01 August 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:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



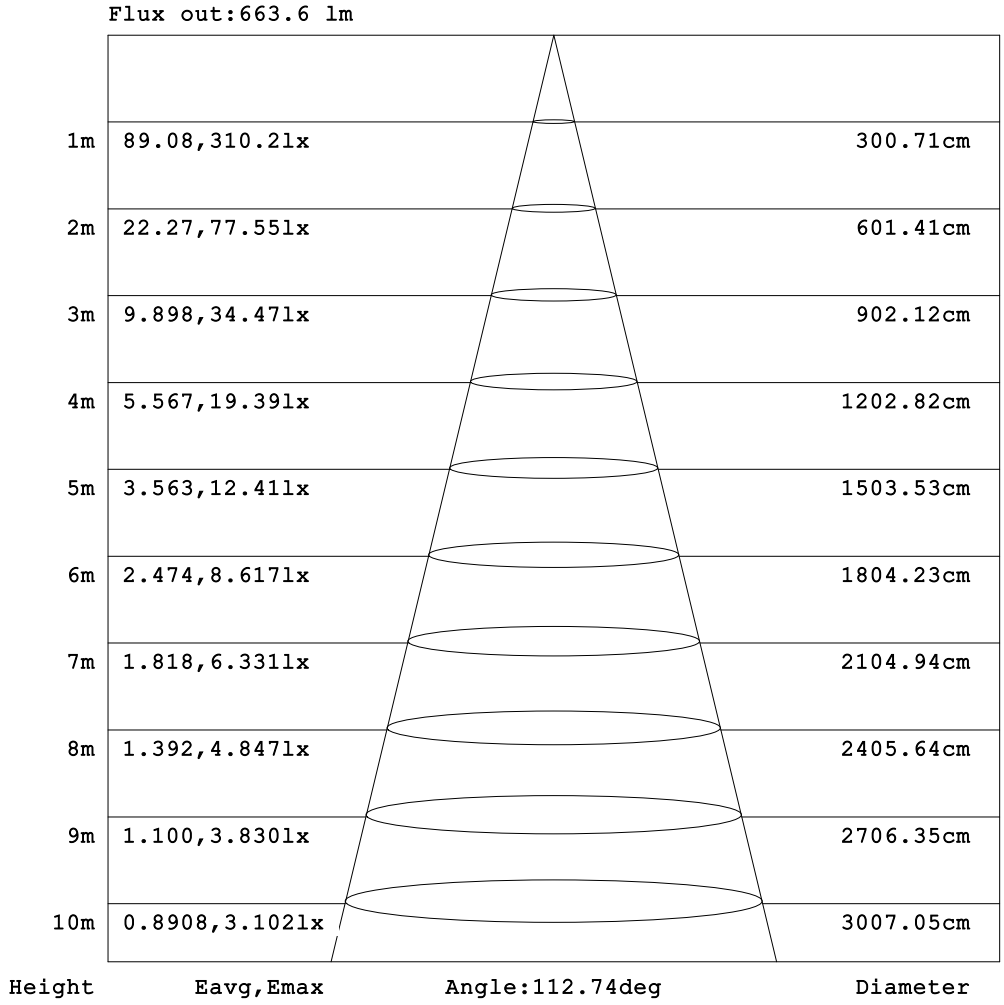
C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:01 August 2024

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\FM7-374-WH 15W 27K.GOS

AAI Figure

Test:U:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



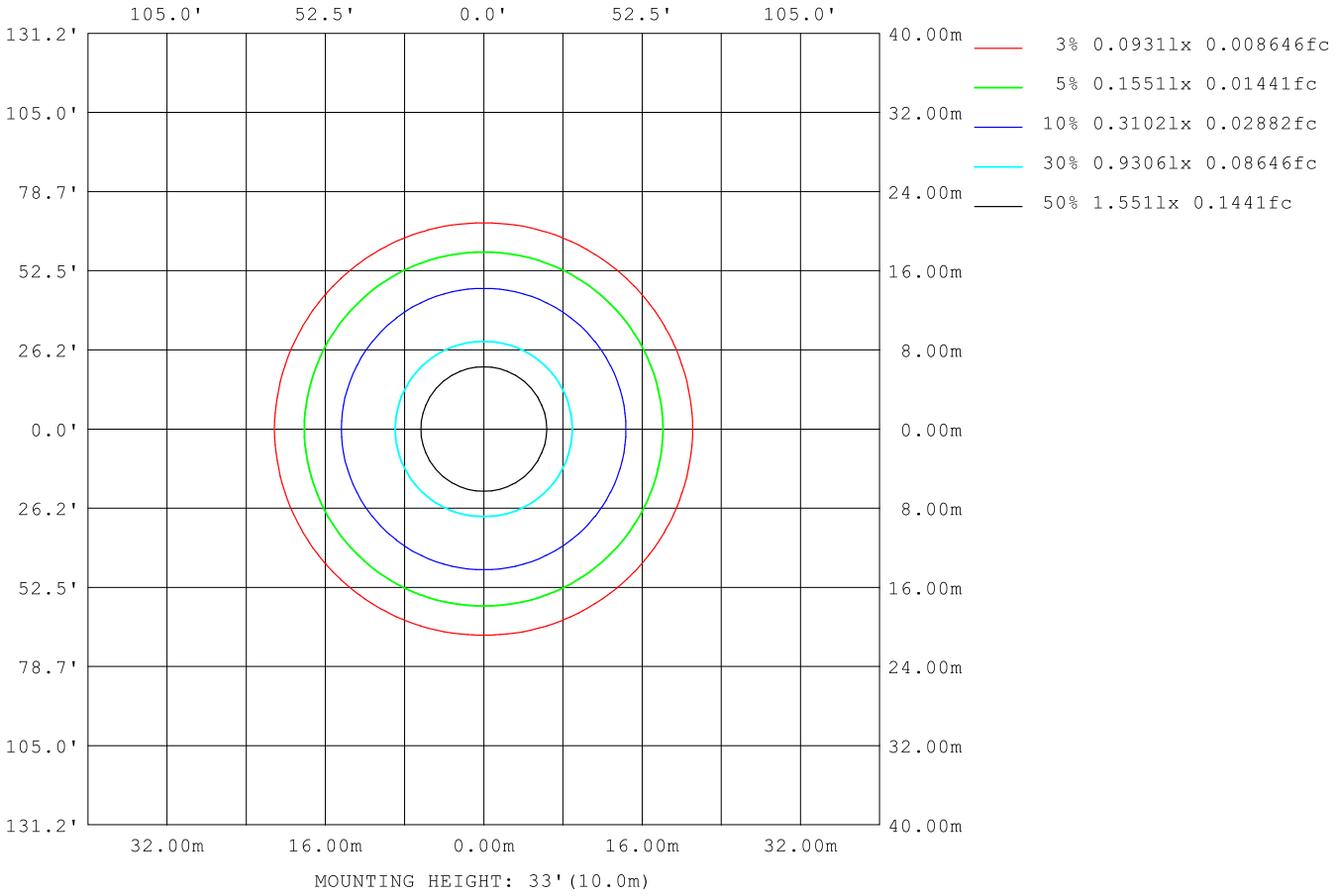
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:01 August 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:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:01 August 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\FM7-374-WH 15W 27K.GOS

LED Avg.L Report

Test:U:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
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MFR.: EVERFINE	SUR.:	Shielding Angle:

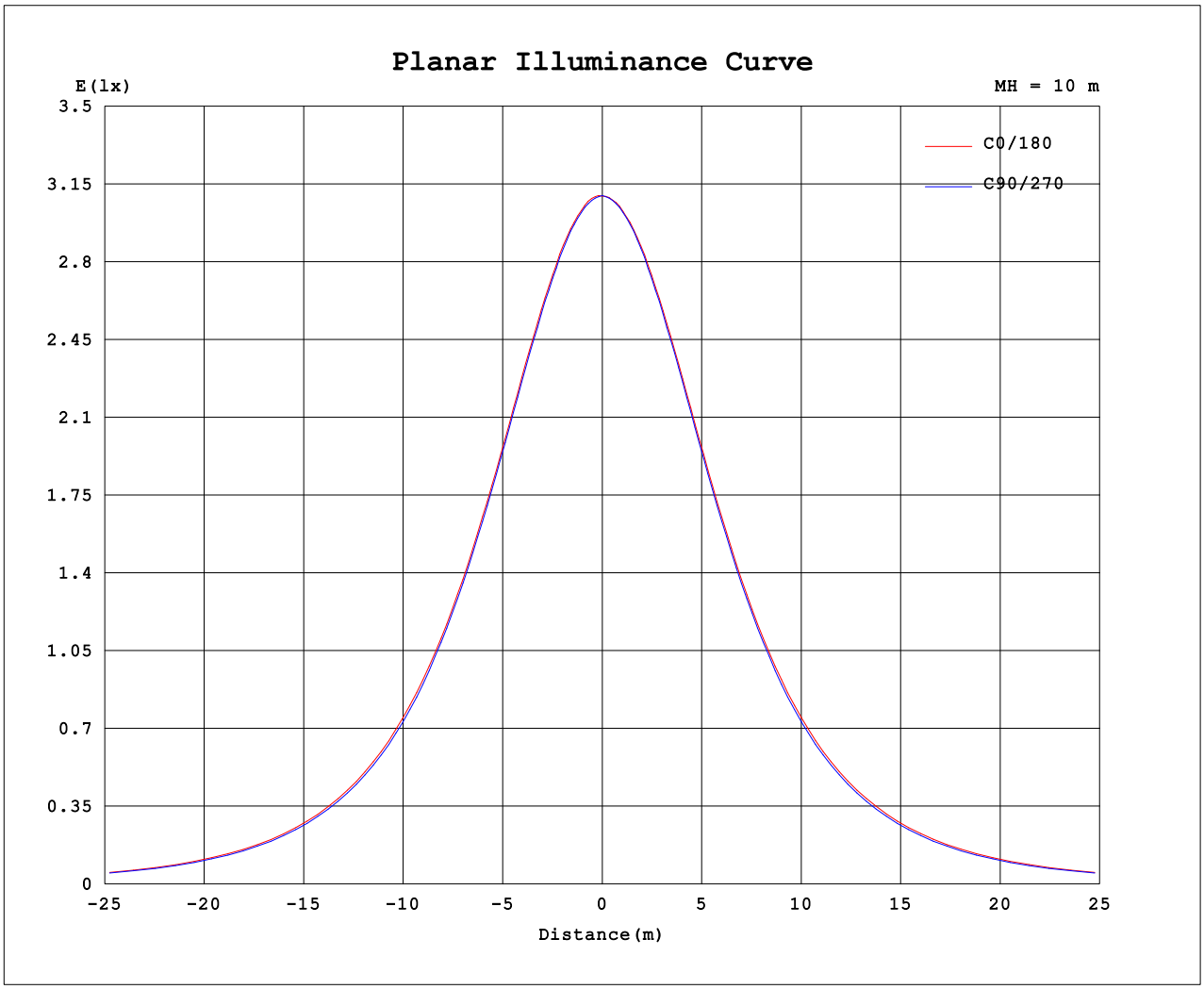
AvgL	cd/m2
L_0~180(65)av	2762
L_0~180(75)av	2509
L_0~180(85)av	2232
L_90~270(65)av	2636
L_90~270(75)av	2323
L_90~270(85)av	1733
L_45(65)av	2684
L_45(75)av	2394
L_45(85)av	1923

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.1350A P:15.158W PF:0.9345 Freq:59.98Hz Lamp Flux:924.33x1 lm		
NAME: 57593WTWT 15W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0	310	310	310	310
5	309	308	309	308
10	305	304	305	304
15	298	297	298	297
20	290	288	290	288
25	278	276	279	276
30	265	262	265	262
35	249	246	250	246
40	232	228	232	228
45	212	207	212	207
50	190	185	191	185
55	167	162	168	162
60	142	137	143	137
65	116	111	117	111
70	90.0	85.4	90.8	85.4
75	64.4	60.1	65.5	60.1
80	40.5	36.4	41.5	36.4
85	19.1	15.1	19.8	15.1
90	2.47	2.39	2.60	2.39
95	2.45	2.53	2.47	2.53
100	2.61	2.68	2.62	2.68
105	2.77	2.84	2.78	2.84
110	2.92	3.00	2.94	3.00
115	3.08	3.15	3.10	3.15
120	3.23	3.30	3.25	3.30
125	3.37	3.43	3.38	3.43
130	3.50	3.56	3.51	3.56
135	3.61	3.67	3.63	3.67
140	3.73	3.80	3.75	3.80
145	3.85	3.90	3.86	3.90
150	3.97	4.01	3.97	4.01
155	4.10	4.15	4.09	4.15
160	4.22	4.28	4.22	4.28
165	4.34	4.40	4.33	4.40
170	4.44	4.48	4.42	4.48
175	4.50	4.52	4.50	4.52
180	4.53	4.55	4.54	4.55

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