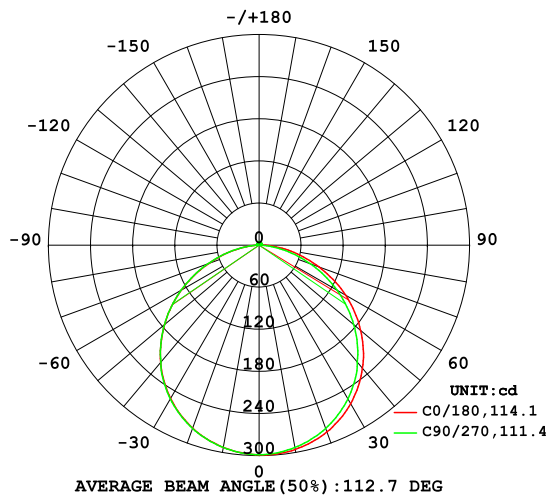


LUMINAIRE PHOTOMETRIC TEST REPORT

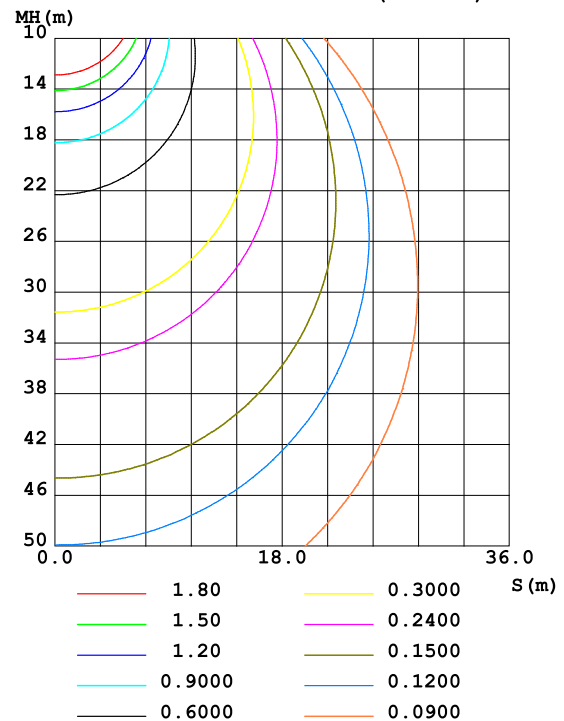
Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.64 lm/W
MODEL	3000K	I _{max} (cd)	299.0	S/MH (C0/180)	1.26	
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.26	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	876.90	η UP,DN (C0-180)	1.1,49.9	
NOMINAL FLUX (lm)	876.901	CIE CLASS	DIRECT	η UP,DN (C180-360)	1.1,47.8	
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



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 23 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: 7.380m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	295.6	292.7	292.6	292.7					0- 10	28.25	28.25	3.22,3.22
20	283.1	277.8	277.3	277.8					10- 20	81.14	109.4	12.5,12.5
30	261.1	253.1	252.1	253.1					20- 30	123.6	232.9	26.6,26.6
40	229.3	217.9	218.3	217.9					30- 40	149.6	382.5	43.6,43.6
50	188.9	176.1	175.9	176.1					40- 50	154.9	537.5	61.3,61.3
60	142.2	128.2	128.0	128.2					50- 60	139.4	676.8	77.2,77.2
70	90.83	77.42	76.55	77.42					60- 70	104.9	781.8	89.2,89.2
80	41.89	30.30	29.78	30.30					70- 80	59.22	841.0	95.9,95.9
90	3.632	2.270	2.274	2.270					80- 90	16.02	857.0	97.7,97.7
100	2.440	2.556	2.555	2.556					90-100	2.627	859.6	98,98
110	2.759	2.879	2.878	2.879					100-110	2.844	862.5	98.4,98.4
120	3.078	3.175	3.178	3.175					110-120	2.977	865.5	98.7,98.7
130	3.331	3.428	3.434	3.428					120-130	2.941	868.4	99,99
140	3.561	3.650	3.664	3.650					130-140	2.726	871.1	99.3,99.3
150	3.787	3.862	3.850	3.862					140-150	2.343	873.5	99.6,99.6
160	4.043	4.121	4.106	4.121					150-160	1.838	875.3	99.8,99.8
170	4.265	4.303	4.266	4.303					160-170	1.187	876.5	100,100
180	4.358	4.358	4.388	4.358					170-180	0.4123	876.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 460.64 lm

%lum = 52.5%

%lamp = 52.5%

Conical surface Flux(120deg): 676.84 lm

%lum = 77.2%

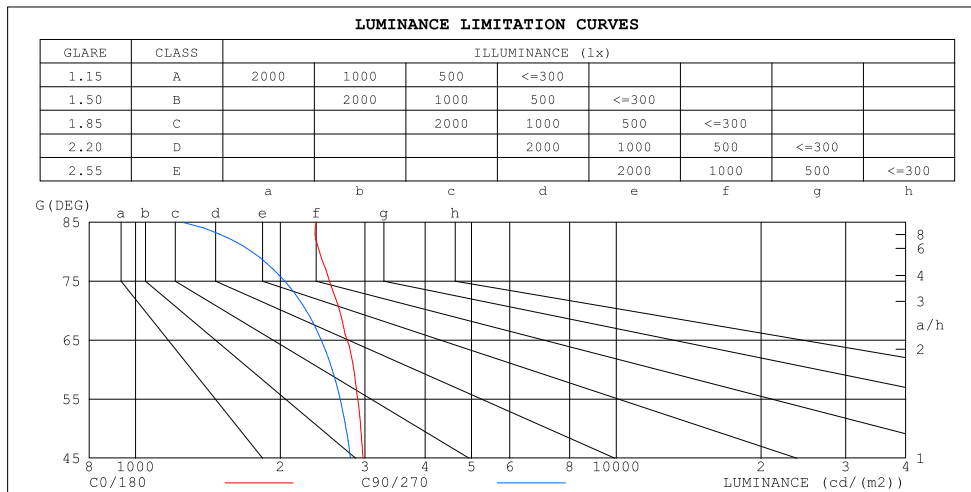
%lamp = 77.2%

C Range: 0 - 180DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 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:7.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2375	1250
80	2412	1745
75	2531	2044
70	2656	2264
65	2756	2434
60	2843	2564
55	2896	2663
50	2939	2739
45	2972	2799

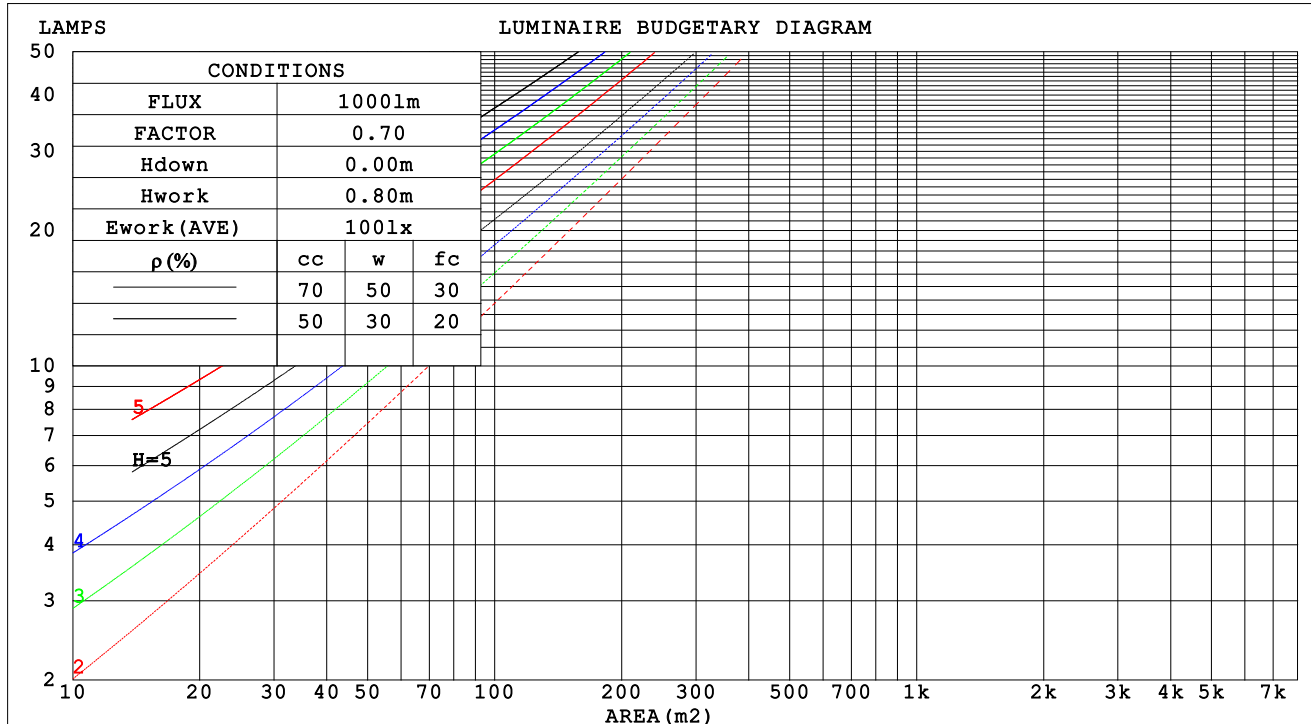
C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: DAMIN
Test Date: 23 August 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 7.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
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						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	.94	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.80	.76	.72	.77	.74	.70	.68
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.39	.49	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.32
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.41	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.36	.30	.26	.35	.30	.25	.24



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 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:7.380m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
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	.308	.175	.055	.300	.171	.054	.286	.164	.052	.272	.157	.050	.260	.151	.049	
2.0	.290	.159	.049	.283	.156	.048	.270	.150	.047	.258	.145	.045	.247	.140	.044	
3.0	.269	.143	.043	.262	.141	.042	.251	.136	.041	.240	.132	.040	.231	.128	.040	
4.0	.248	.129	.038	.243	.127	.038	.232	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.229	.117	.034	.225	.115	.034	.215	.112	.033	.207	.109	.032	.199	.106	.032	
6.0	.213	.107	.031	.208	.105	.030	.200	.103	.030	.193	.100	.029	.186	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.174	.090	.027	
8.0	.185	.090	.025	.182	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.153	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.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	.198	.174	.152	.169	.149	.131	.116	.102	.090	.067	.059	.053	.021	.019	.017	
2.0	.190	.149	.116	.162	.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	.174	.119	.076	.150	.103	.066	.103	.071	.047	.059	.042	.028	.019	.014	.009	
5.0	.167	.108	.065	.143	.094	.057	.099	.065	.040	.057	.038	.024	.018	.013	.008	
6.0	.160	.100	.057	.137	.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	.087	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.141	.082	.043	.121	.072	.038	.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:23 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:7.380m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm											
NAME: 57592WTWT 15W 30K					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	2H	17.0	18.5	17.3	18.8	19.0	16.7	18.2	17.0	18.4	18.6
	3H	18.6	20.0	18.9	20.3	20.5	18.1	19.5	18.4	19.7	20.0
	4H	19.3	20.6	19.6	20.9	21.2	18.6	19.9	19.0	20.2	20.5
	6H	19.8	21.0	20.2	21.3	21.7	19.0	20.2	19.4	20.5	20.9
	8H	20.0	21.2	20.3	21.5	21.8	19.1	20.3	19.5	20.6	20.9
	12H	20.1	21.2	20.5	21.6	21.9	19.1	20.3	19.5	20.6	21.0
4H	2H	17.6	18.9	17.9	19.2	19.5	17.3	18.6	17.7	18.9	19.2
	3H	19.4	20.5	19.7	20.8	21.2	18.9	20.1	19.3	20.4	20.8
	4H	20.1	21.2	20.6	21.5	21.9	19.6	20.6	20.0	21.0	21.4
	6H	20.8	21.7	21.2	22.1	22.5	20.1	21.0	20.5	21.4	21.8
	8H	21.0	21.9	21.5	22.3	22.7	20.2	21.1	20.7	21.5	21.9
	12H	21.2	22.0	21.7	22.4	22.9	20.3	21.1	20.7	21.5	22.0
8H	4H	20.4	21.2	20.8	21.6	22.1	19.9	20.7	20.3	21.2	21.6
	6H	21.2	21.9	21.7	22.3	22.8	20.5	21.2	21.0	21.7	22.2
	8H	21.5	22.1	22.0	22.6	23.1	20.7	21.4	21.2	21.8	22.3
	12H	21.8	22.3	22.3	22.8	23.4	20.9	21.4	21.4	21.9	22.4
12H	4H	20.4	21.2	20.8	21.6	22.0	19.9	20.7	20.4	21.1	21.6
	6H	21.2	21.9	21.7	22.3	22.8	20.6	21.2	21.1	21.7	22.2
	8H	21.6	22.1	22.1	22.6	23.2	20.9	21.4	21.4	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 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 876.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)
Area: 0.1 m2

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 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:7.380m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

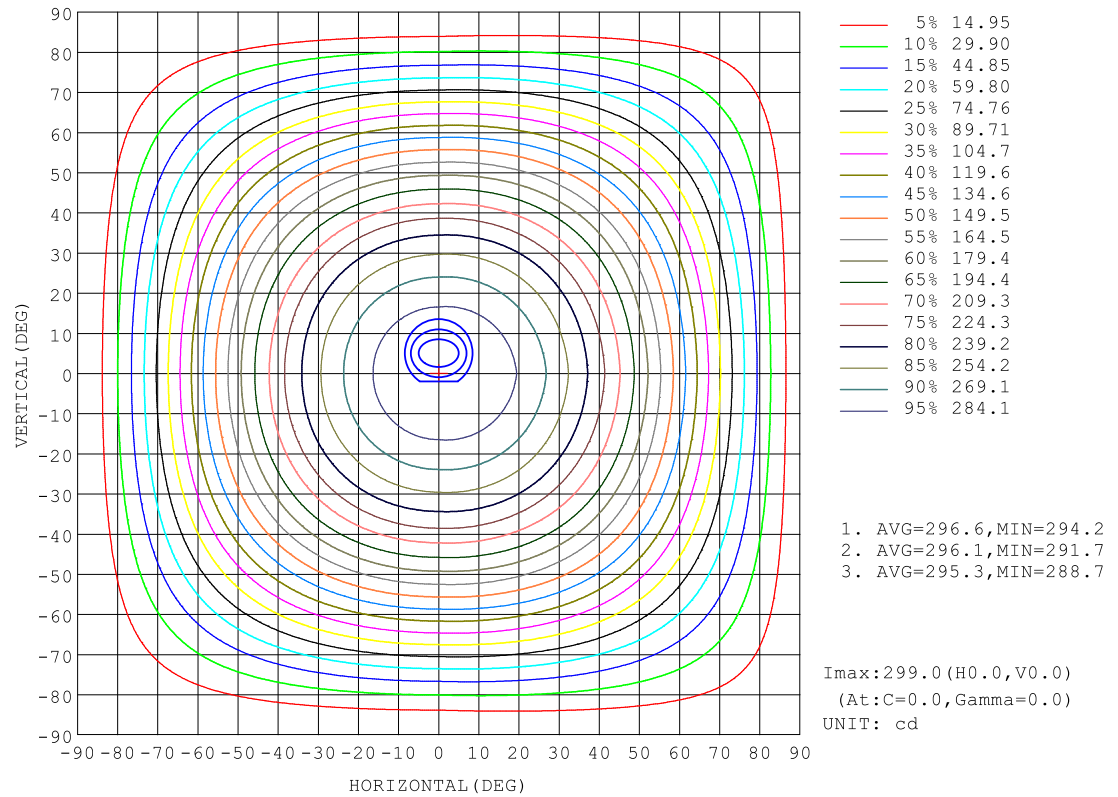
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	69	61
2.00	94	86	79	92	84	78	89	82	77	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	76
4.00	106	100	95	103	98	94	98	94	91	81
5.00	108	103	99	105	101	97	101	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:23 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:7.380m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

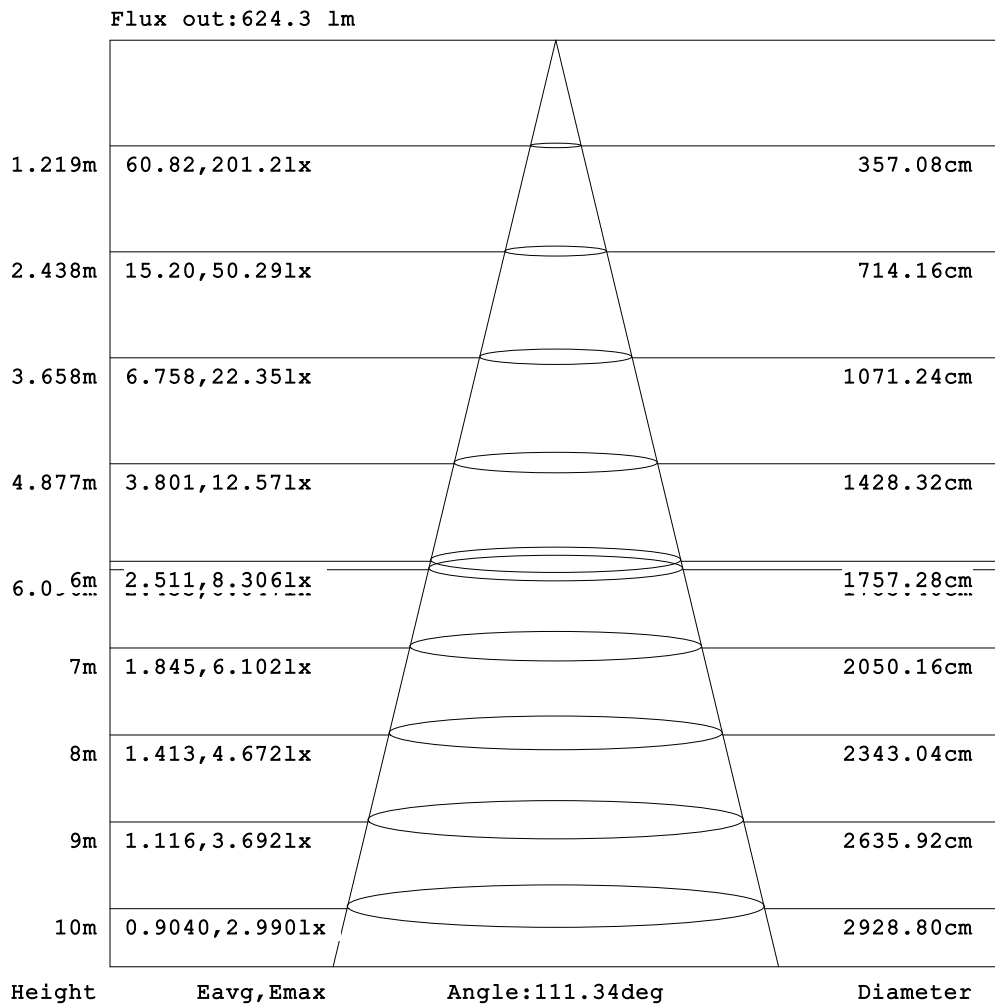


C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



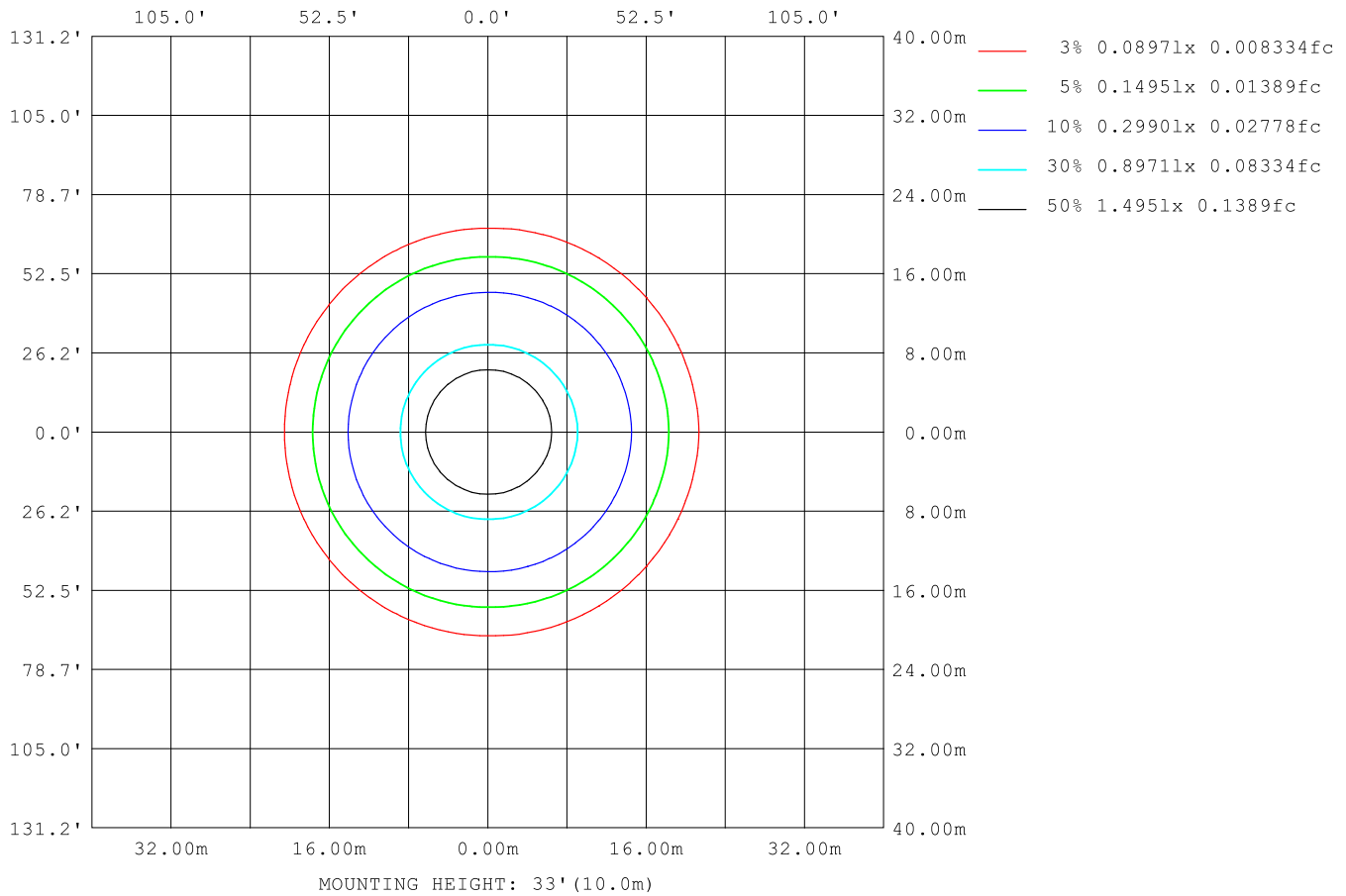
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: DAMIN
Test Date: 23 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: 7.380m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	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:23 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:7.380m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

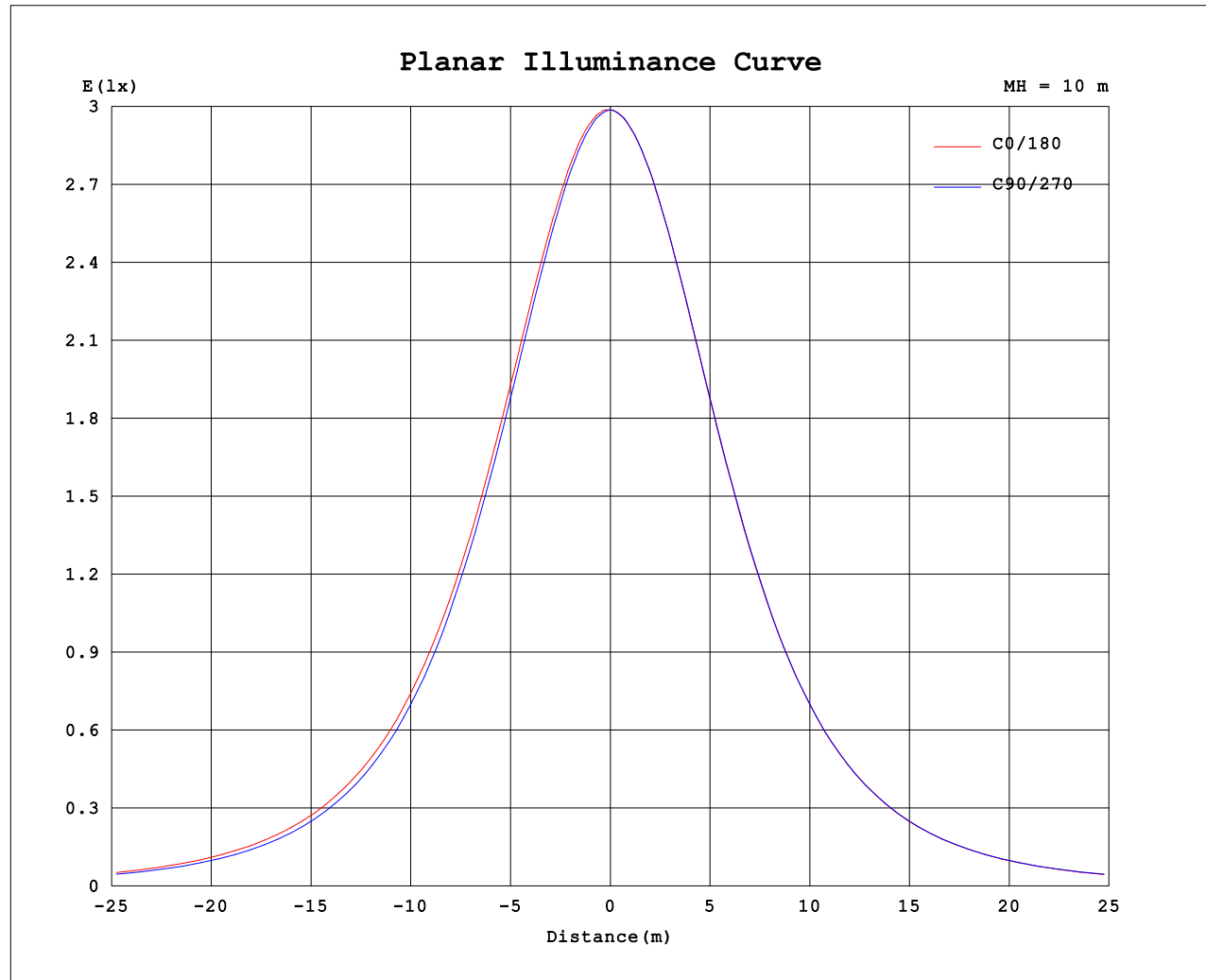
AvgL	cd/m2
L_0~180 (65) av	2582
L_0~180 (75) av	2269
L_0~180 (85) av	1805
L_90~270 (65) av	2434
L_90~270 (75) av	2044
L_90~270 (85) av	1250
L_45 (65) av	2478
L_45 (75) av	2112
L_45 (85) av	1422

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 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:7.380m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 23 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: 7.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.1270A P:14.461W PF:0.9486 Freq:59.98Hz Lamp Flux:876.90lx1 lm		
NAME: 57592WTWT 15W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	299	299	299	299														
5	298	297	297	297														
10	296	293	293	293														
15	290	286	286	286														
20	283	278	277	278														
25	273	267	266	267														
30	261	253	252	253														
35	246	237	236	237														
40	229	218	218	218														
45	210	198	198	198														
50	189	176	176	176														
55	166	153	152	153														
60	142	128	128	128														
65	116	103	102	103														
70	90.8	77.4	76.5	77.4														
75	65.5	52.9	51.9	52.9														
80	41.9	30.3	29.8	30.3														
85	20.7	10.9	10.8	10.9														
90	3.63	2.27	2.27	2.27														
95	2.31	2.40	2.40	2.40														
100	2.44	2.56	2.56	2.56														
105	2.60	2.73	2.72	2.73														
110	2.76	2.88	2.88	2.88														
115	2.91	3.03	3.03	3.03														
120	3.08	3.18	3.18	3.18														
125	3.21	3.30	3.31	3.30														
130	3.33	3.43	3.43	3.43														
135	3.45	3.55	3.56	3.55														
140	3.56	3.65	3.66	3.65														
145	3.66	3.76	3.74	3.76														
150	3.79	3.86	3.85	3.86														
155	3.94	4.02	3.98	4.02														
160	4.04	4.12	4.11	4.12														
165	4.16	4.23	4.17	4.23														
170	4.27	4.30	4.27	4.30														
175	4.33	4.35	4.33	4.35														
180	4.36	4.36	4.39	4.36														

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 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:7.380m [K=1.0000]
Remarks: