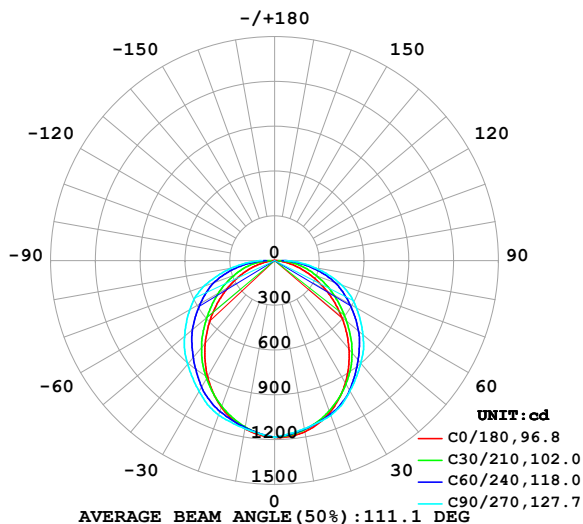


LUMINAIRE PHOTOMETRIC TEST REPORT

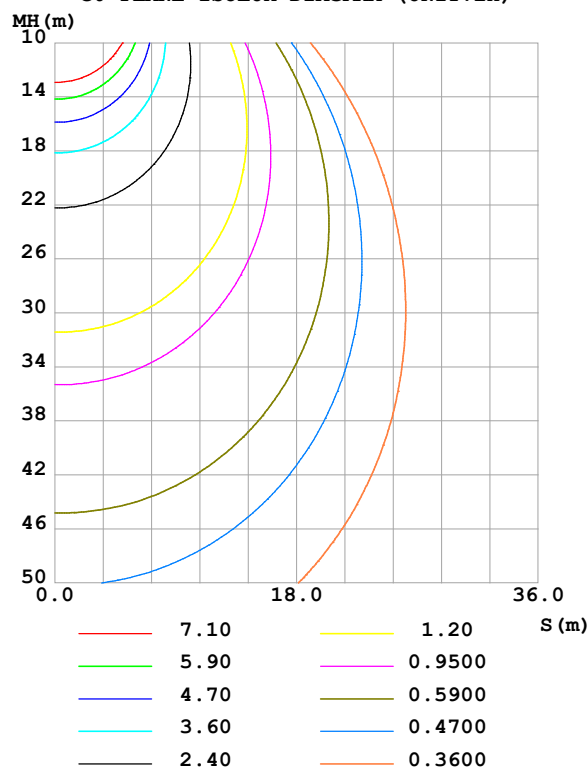
Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLSN-W-2FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.88 lm/W			
MODEL		Imax (cd)	1186	S/MH(C0/180)	1.15
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3406.1	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	3406.14	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1165	1148	1144	1133	1144	1133	1143	1148	0- 10	110.7	110.7	3.25,3.25
20	1083	1083	1104	1055	1045	1054	1102	1081	10- 20	313.7	424.4	12.5,12.5
30	948.1	985.2	1010	948.4	899.6	948.8	1012	984.9	20- 30	471.5	895.9	26.3,26.3
40	775.9	838.1	898.8	797.8	724.2	803.3	906.4	842.4	30- 40	559.3	1455	42.7,42.7
50	586.9	680.4	773.0	642.2	538.5	653.5	787.8	690.6	40- 50	575.8	2031	59.6,59.6
60	399.5	521.6	633.1	488.6	359.6	504.8	656.1	537.0	50- 60	527.2	2558	75.1,75.1
70	227.3	369.8	476.9	343.5	197.4	364.1	504.5	389.2	60- 70	430.7	2989	87.7,87.7
80	81.43	205.6	271.9	192.7	62.77	204.7	293.3	225.1	70- 80	291.3	3280	96.3,96.3
90	4.543	38.29	66.89	42.41	5.508	38.61	82.12	55.72	80- 90	126.0	3406	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1745.3 lm

%lum = 51.2%

%lamp = 51.2%

Conical surface Flux(130deg): 2788 lm

%lum = 81.9%

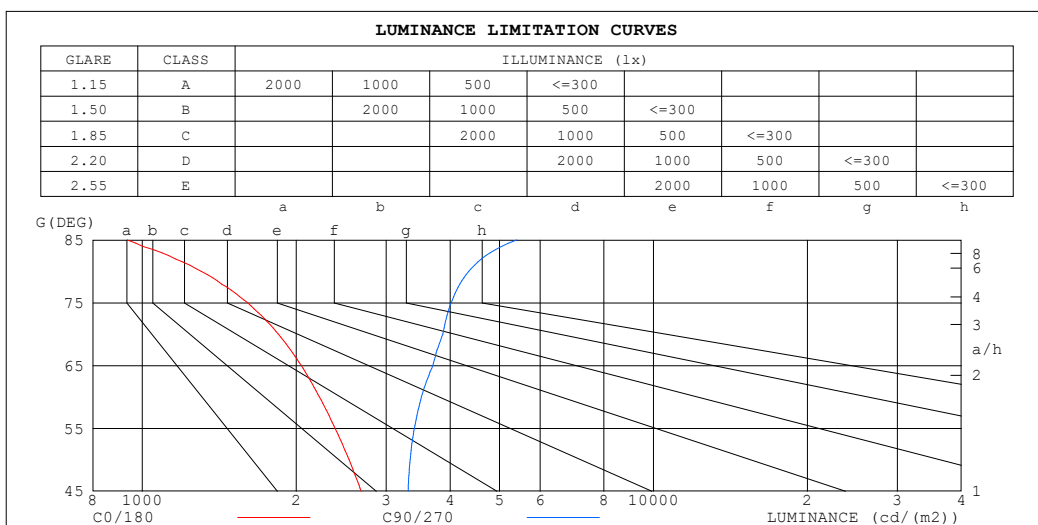
%lamp = 81.9%

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLSN-W-2FT		
MFR.: EVERTIE		



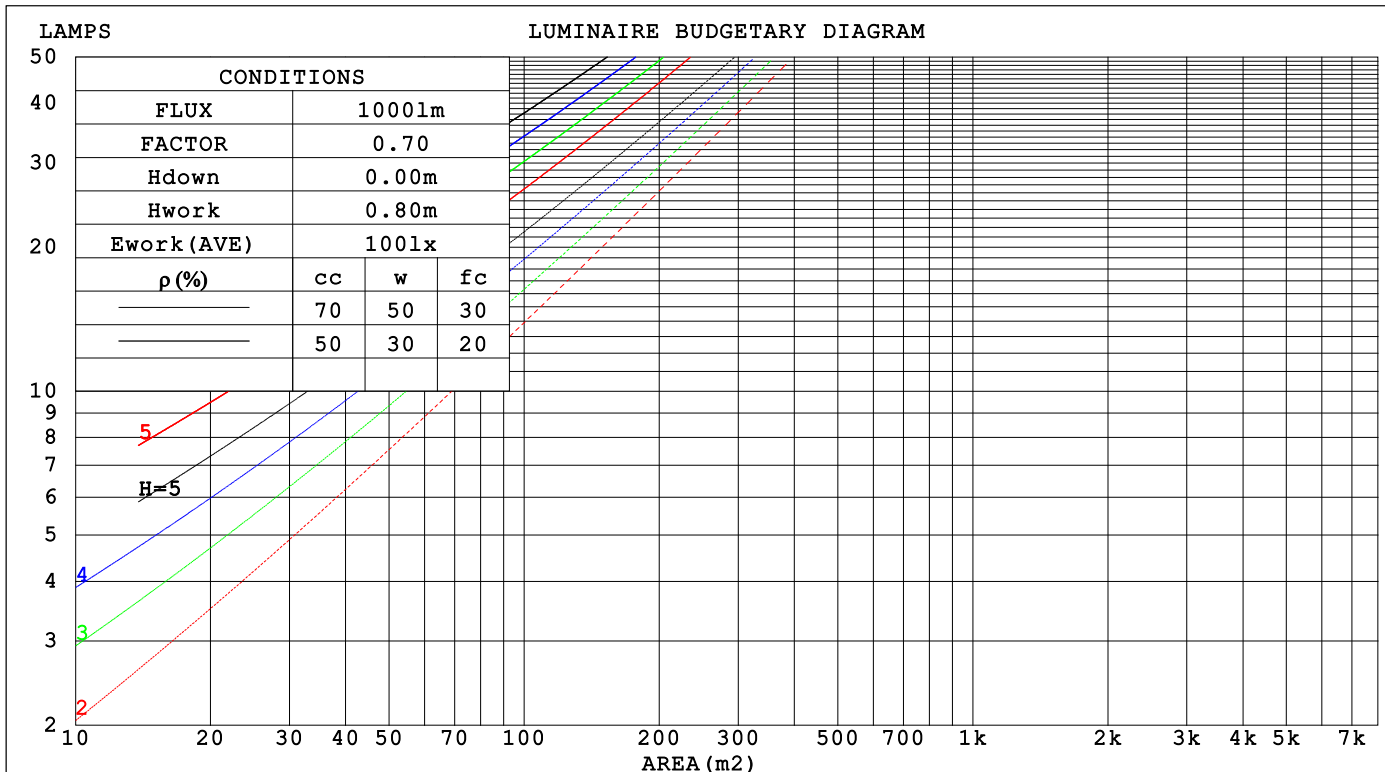
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLSN-W-2FT		
MFR.: EVERTIE		

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	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00														
1.0	1.02	.98	.94	1.00	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.84	.82														
2.0	.89	.82	.75	.87	.80	.75	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67														
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.61	.70	.64	.60	.68	.63	.58	.56														
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.51	.62	.56	.51	.60	.55	.50	.48														
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41														
6.0	.55	.46	.39	.54	.46	.39	.52	.45	.39	.51	.44	.39	.49	.43	.38	.36														
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.34	.46	.39	.34	.45	.39	.34	.32														
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28														
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26														
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23														



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

WEC AND CCEC

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLN-W-2FT		
MFR.: EVERTIE		

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	.337	.191	.061	.329	.188	.060	.316	.181	.058	.304	.175	.056	.292	.169	.055		
2.0	.308	.169	.052	.301	.166	.051	.290	.161	.050	.279	.156	.049	.269	.152	.048		
3.0	.281	.149	.045	.275	.147	.044	.265	.143	.044	.255	.140	.043	.246	.136	.042		
4.0	.257	.133	.039	.252	.132	.039	.243	.129	.038	.234	.126	.038	.226	.123	.037		
5.0	.236	.120	.035	.232	.119	.035	.223	.116	.034	.216	.114	.034	.208	.111	.033		
6.0	.218	.109	.031	.214	.108	.031	.207	.106	.031	.200	.104	.031	.193	.102	.030		
7.0	.202	.100	.028	.199	.099	.028	.192	.097	.028	.186	.095	.028	.180	.094	.028		
8.0	.188	.092	.026	.185	.091	.026	.179	.090	.026	.174	.088	.025	.169	.087	.025		
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023		
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.154	.076	.022	.149	.075	.022		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015		
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011		
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009		
4.0	.159	.101	.057	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007		
5.0	.151	.091	.046	.130	.079	.040	.089	.055	.028	.052	.032	.017	.017	.011	.006		
6.0	.144	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005		
7.0	.137	.076	.033	.118	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.130	.070	.028	.112	.061	.025	.077	.042	.018	.045	.025	.010	.015	.008	.003		
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003		
10.0	.118	.060	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003		

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm										
NAME: ETLSN-W-2FT										
MFR.: EVERTIE										
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	9.4	10.9	9.7	11.2	11.4	11.4	13.0	11.7	13.2	13.4
3H	10.6	12.0	10.9	12.3	12.5	13.6	15.1	13.9	15.3	15.5
4H	11.0	12.4	11.3	12.7	12.9	14.6	16.0	14.9	16.2	16.5
6H	11.3	12.6	11.6	12.9	13.1	15.5	16.8	15.8	17.1	17.3
8H	11.3	12.6	11.7	12.9	13.2	15.9	17.1	16.2	17.4	17.7
12H	11.3	12.6	11.7	12.9	13.2	16.2	17.4	16.6	17.7	18.0
4H 2H	10.4	11.8	10.7	12.0	12.3	11.9	13.3	12.3	13.6	13.8
3H	11.8	13.0	12.2	13.3	13.6	14.3	15.6	14.7	15.9	16.2
4H	12.4	13.5	12.8	13.8	14.2	15.5	16.6	15.9	17.0	17.3
6H	12.8	13.8	13.2	14.1	14.5	16.6	17.6	17.0	17.9	18.3
8H	12.9	13.8	13.3	14.2	14.6	17.1	18.0	17.5	18.4	18.8
12H	12.9	13.8	13.4	14.2	14.6	17.5	18.4	18.0	18.8	19.2
8H 4H	13.2	14.1	13.6	14.5	14.8	15.8	16.7	16.2	17.1	17.5
6H	13.8	14.6	14.2	15.0	15.4	17.1	17.8	17.5	18.2	18.7
8H	14.0	14.7	14.5	15.1	15.6	17.7	18.4	18.1	18.8	19.3
12H	14.2	14.8	14.6	15.2	15.7	18.3	18.9	18.8	19.4	19.8
12H 4H	13.3	14.2	13.7	14.6	15.0	15.8	16.6	16.2	17.0	17.4
6H	14.1	14.8	14.5	15.2	15.7	17.1	17.8	17.6	18.2	18.7
8H	14.4	15.0	14.9	15.5	15.9	17.8	18.4	18.3	18.9	19.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117, 3406 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.3)
Area: 0.36 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLN-W-2FT		
MFR.: EVERTIE		

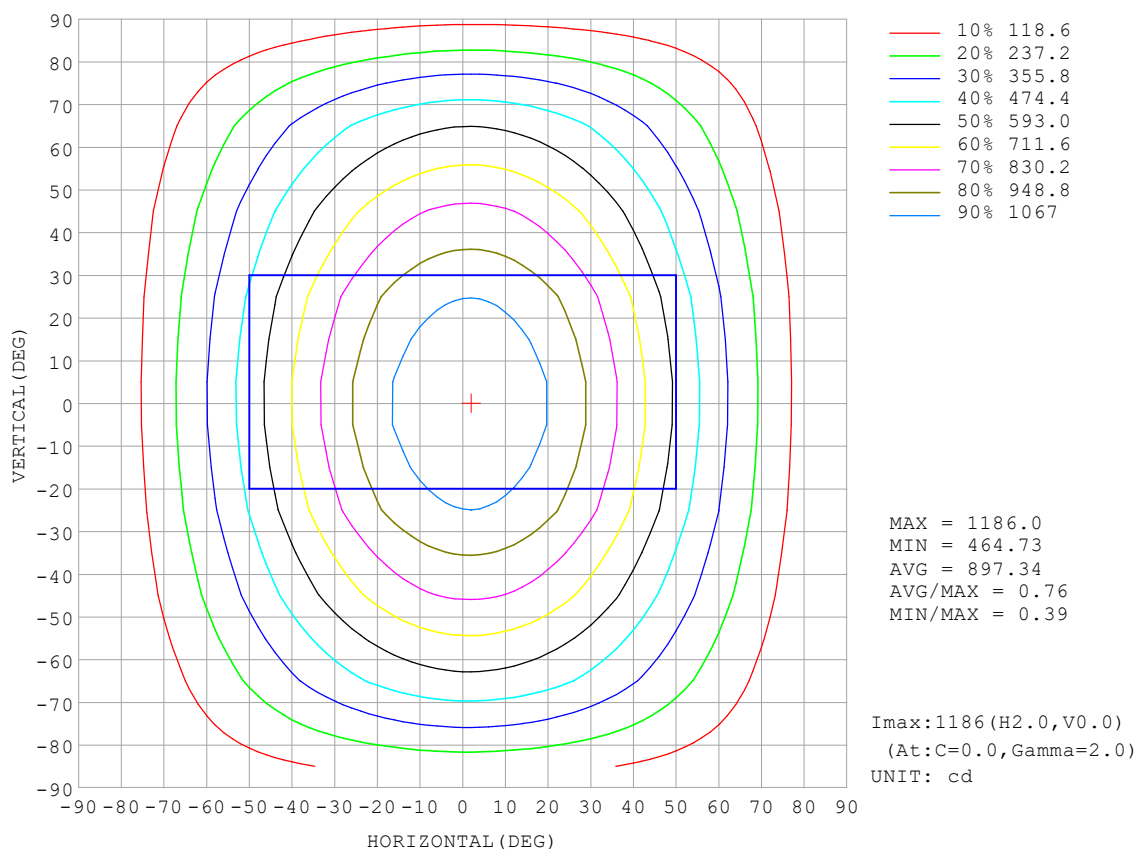
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	66	55	47	65	54	47	64	53	46	39
1.00	75	63	56	73	63	55	71	64	55	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	68	82	74	67	60
2.00	93	84	78	92	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	95	89	84	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	102	98	105	100	96	101	97	93	84
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QUYEN
 Test Date:2026-01-21

$V(\beta)$ Range:-90 - 90DEG
 $V(\beta)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
 Humidity:65.0%
 Test Distance:6.100m [K=1.0820]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLN-W-2FT		
MFR.: EVERTIE		

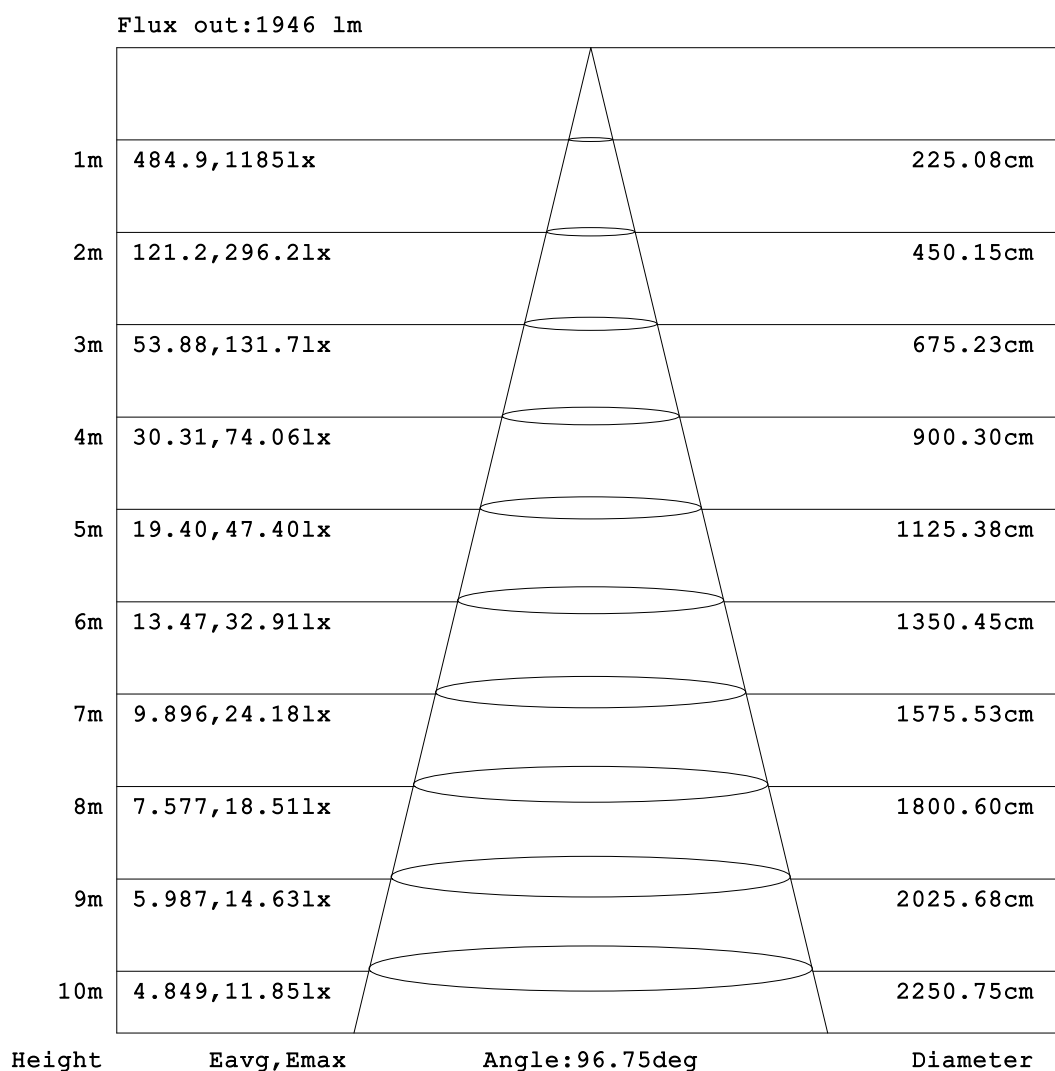


H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:QUYEN
 Test Date:2026-01-21

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
 Humidity:65.0%
 Test Distance:6.100m [K=1.0820]
 Remarks:

AAI Figure

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLN-W-2FT		
MFR.: EVERTIE		



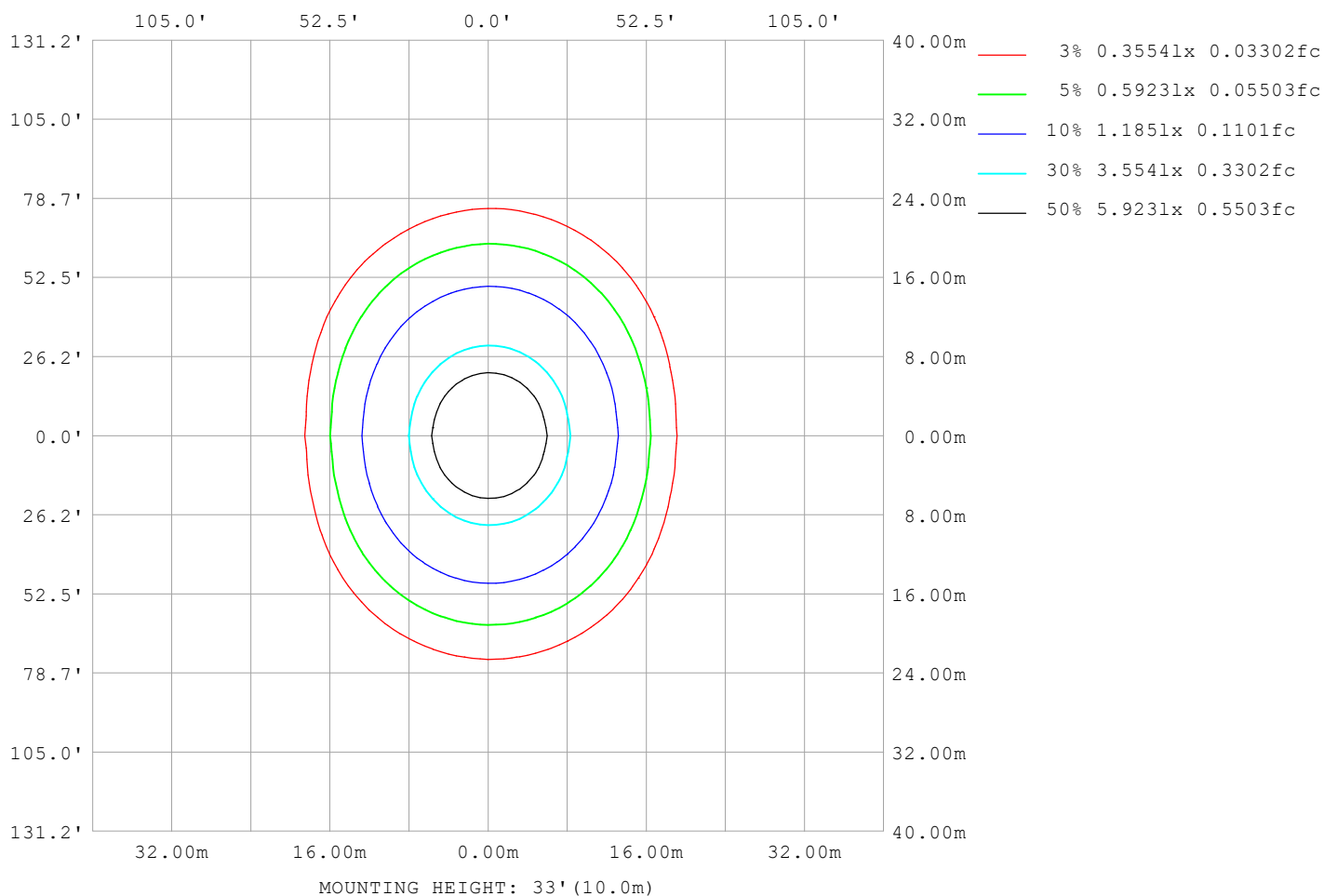
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: QUYEN
 Test Date: 2026-01-21

V(B) Range: -90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.489
 Humidity: 65.0%
 Test Distance: 6.100m [K=1.0820]
 Remarks:

ISOLUX DIAGRAM

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLN-W-2FT		
MFR.: EVERTIE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

LED Avg.L Report

Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLSN-W-2FT		
MFR.: EVERTIE		

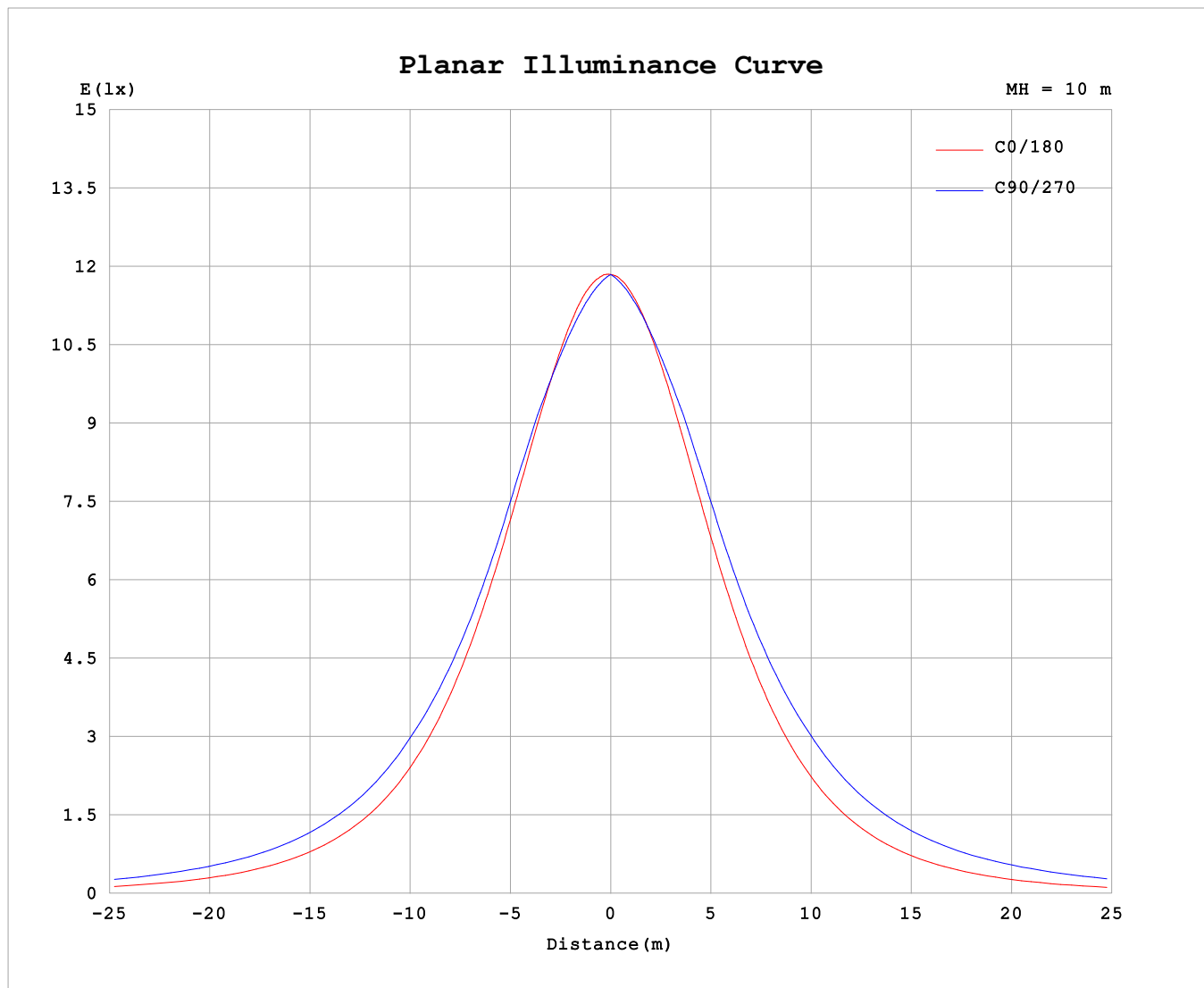
AvgL	cd/m2
L_0~180 (65) av	1929
L_0~180 (75) av	1472
L_0~180 (85) av	767
L_90~270 (65) av	3790
L_90~270 (75) av	4150
L_90~270 (85) av	5691
L_45 (65) av	2876
L_45 (75) av	3137
L_45 (85) av	3960

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

Test: U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 3406.14x1 lm		
NAME: ETLN-W-2FT		
MFR.: EVERTIE		

UNIT: cd

H(θ) Range:-90 - 90DEG
H(θ) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2026-01-21

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:

Test: U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 3406.14x1 lm		
NAME: ETLSN-W-2FT		
MFR.: EVERTIE		

UNIT: cd

[illegible]

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V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks:
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Test:U:121.28V I:0.1818A P:21.992W PF:0.9974 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3406.14x1 lm		
NAME: ETLSN-W-2FT		
MFR.: EVERTIE		

UNIT: cd

[illegible]

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.489
Humidity:65.0%
Test Distance:6.100m [K=1.0820]
Remarks: