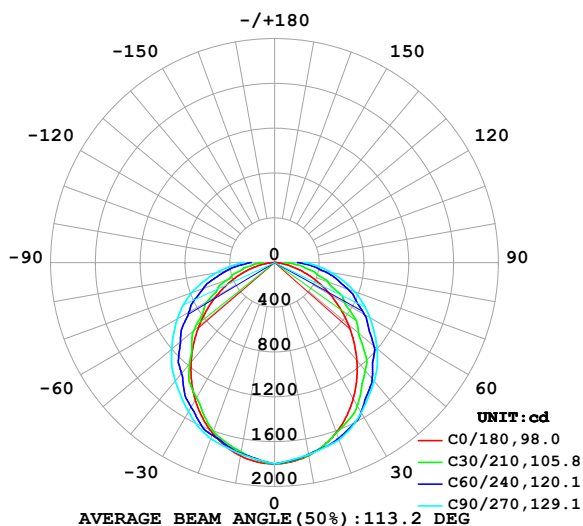


LUMINAIRE PHOTOMETRIC TEST REPORT

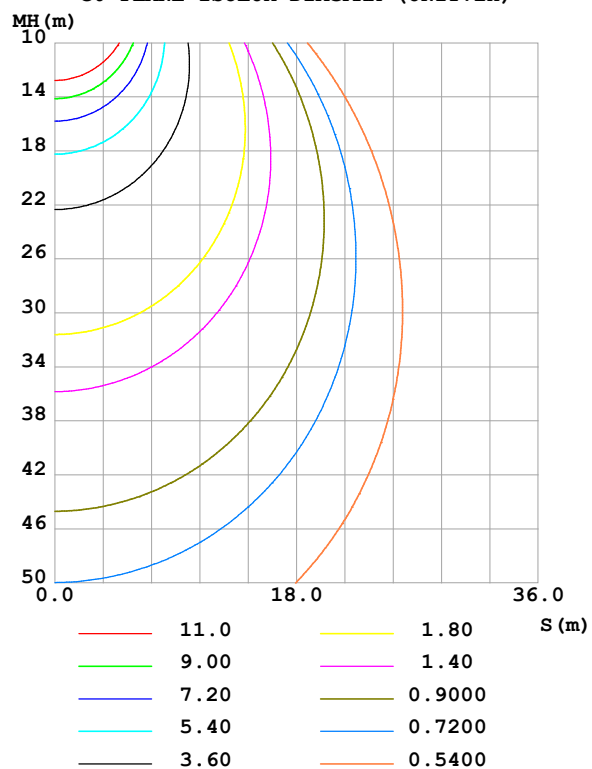
Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.55 lm/W			
MODEL		Imax (cd)	1798	S/MH(C0/180)	1.18
NOMINAL POWER(W)	34	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5343.4	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	5343.38	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
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:2025-10-25

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=1.0738]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1750	1742	1742	1726	1754	1724	1736	1735	0- 10	168.0	168.0	3.14,3.14
20	1614	1658	1686	1603	1622	1602	1674	1639	10- 20	476.9	644.9	12.1,12.1
30	1405	1514	1548	1457	1418	1459	1539	1480	20- 30	718.7	1364	25.5,25.5
40	1144	1292	1384	1247	1162	1254	1381	1252	30- 40	856.6	2220	41.6,41.6
50	858.8	1057	1196	1021	882.3	1033	1202	1019	40- 50	886.8	3107	58.1,58.1
60	576.7	825.5	983.8	787.2	604.4	802.5	1003	794.6	50- 60	817.3	3924	73.4,73.4
70	315.8	608.0	762.4	559.2	346.7	575.8	788.1	589.2	60- 70	674.5	4599	86.1,86.1
80	99.28	383.3	512.7	347.1	126.4	355.6	528.2	377.4	70- 80	480.2	5079	95.1,95.1
90	6.905	147.0	263.0	161.6	8.927	158.3	268.3	157.3	80- 90	264.5	5343	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): 2666.3 lm

%lum = 49.9%

%lamp = 49.9%

Conical surface Flux(130deg): 4282.8 lm

%lum = 80.2%

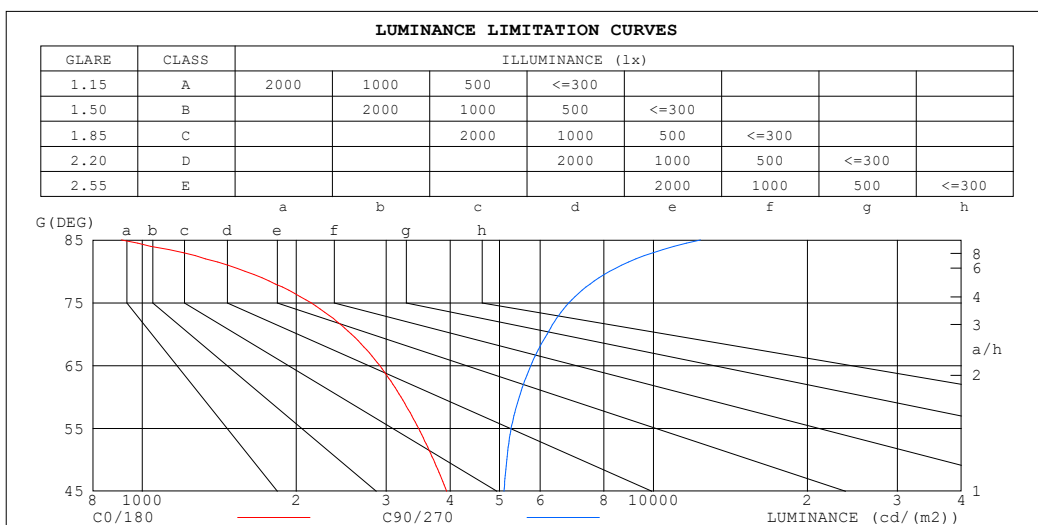
%lamp = 80.2%

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



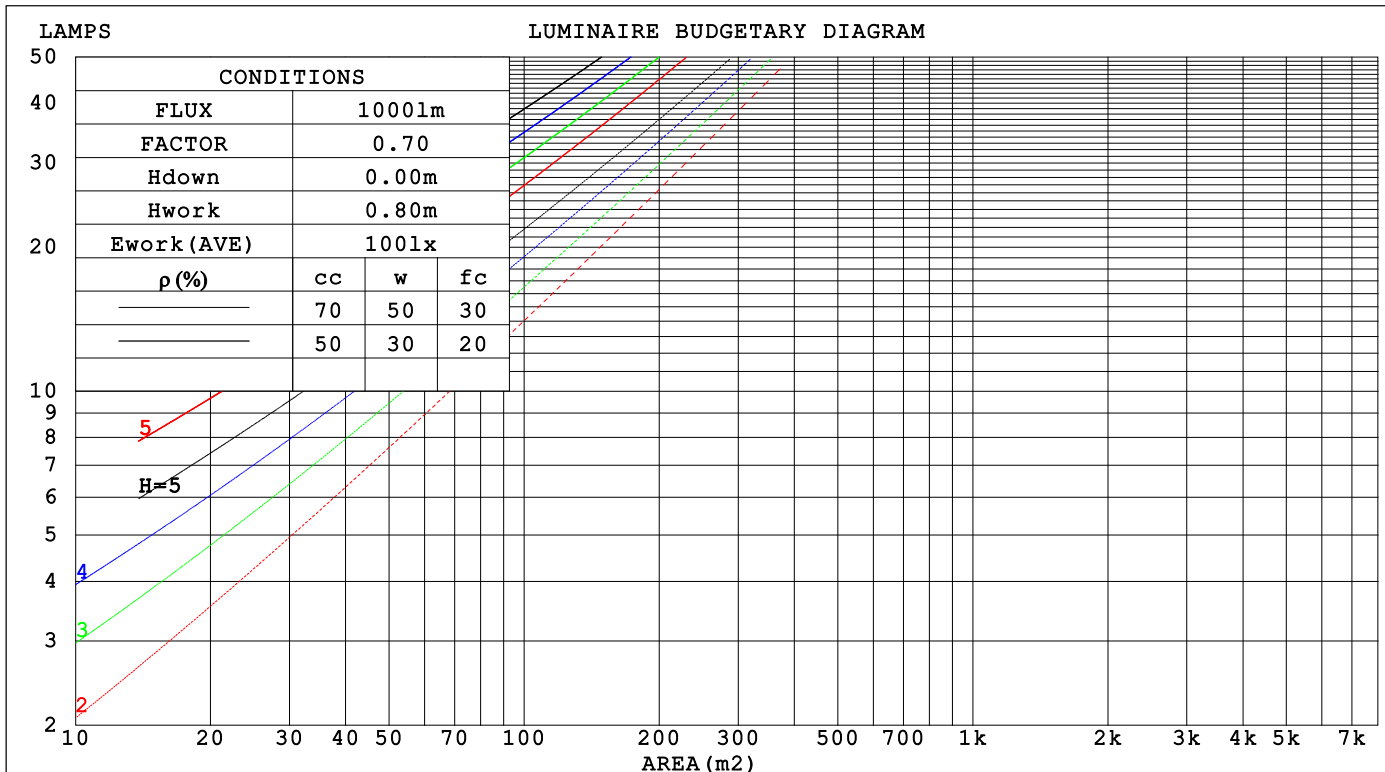
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLN-G2-4FT		
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	.00														
1.0	1.02	.97	.92	.99	.95	.91	.95	.91	.88	.91	.88	.85	.87	.85	.83	.80														
2.0	.88	.80	.74	.86	.79	.73	.82	.77	.71	.79	.74	.70	.76	.72	.68	.66														
3.0	.77	.68	.61	.75	.67	.61	.72	.65	.59	.69	.63	.58	.67	.62	.57	.55														
4.0	.68	.59	.52	.66	.58	.51	.64	.56	.50	.62	.55	.50	.59	.54	.49	.47														
5.0	.61	.51	.44	.59	.51	.44	.57	.49	.43	.55	.48	.43	.53	.47	.42	.40														
6.0	.54	.45	.39	.53	.45	.38	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35														
7.0	.49	.40	.34	.49	.40	.34	.47	.39	.34	.45	.39	.33	.44	.38	.33	.31														
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.28														
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25														
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.25	.36	.29	.24	.35	.29	.24	.22														



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

WEC AND CCEC

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLSN-G2-4FT		
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	.352	.200	.063	.345	.197	.062	.331	.190	.061	.319	.184	.059	.307	.178	.057		
2.0	.316	.173	.053	.310	.171	.053	.298	.166	.051	.287	.161	.050	.277	.157	.049		
3.0	.286	.152	.046	.281	.150	.045	.270	.146	.045	.260	.143	.044	.251	.139	.043		
4.0	.261	.136	.040	.256	.134	.040	.246	.131	.039	.238	.128	.039	.230	.125	.038		
5.0	.239	.122	.035	.234	.120	.035	.226	.118	.035	.218	.115	.034	.211	.113	.034		
6.0	.220	.110	.032	.216	.109	.031	.209	.107	.031	.202	.105	.031	.196	.103	.031		
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.188	.096	.028	.182	.095	.028		
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025		
9.0	.177	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.024	.160	.081	.023		
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.150	.076	.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	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015		
2.0	.176	.132	.095	.150	.113	.082	.103	.078	.057	.059	.046	.034	.019	.015	.011		
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008		
4.0	.160	.101	.057	.137	.087	.049	.094	.061	.035	.055	.036	.020	.018	.012	.007		
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006		
6.0	.144	.083	.038	.124	.072	.033	.086	.050	.024	.050	.029	.014	.016	.010	.005		
7.0	.137	.076	.033	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.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	.061	.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:2025-10-25

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=1.0738]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm										
NAME: ETLSN-G2-4FT										
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	11.0	9.7	11.2	11.4	11.4	13.0	11.7	13.2	13.4
3H	10.7	12.2	11.0	12.4	12.6	13.6	15.1	13.9	15.3	15.6
4H	11.2	12.6	11.5	12.8	13.1	14.8	16.2	15.1	16.4	16.7
6H	11.4	12.8	11.8	13.0	13.3	15.9	17.2	16.2	17.5	17.8
8H	11.5	12.8	11.9	13.1	13.4	16.4	17.7	16.8	18.0	18.3
12H	11.5	12.8	11.9	13.1	13.4	17.0	18.3	17.4	18.6	18.9
4H 2H	10.5	11.9	10.8	12.1	12.4	11.9	13.3	12.3	13.6	13.9
3H	12.0	13.2	12.4	13.5	13.8	14.4	15.7	14.8	16.0	16.3
4H	12.6	13.8	13.0	14.1	14.4	15.7	16.9	16.1	17.2	17.5
6H	13.1	14.1	13.5	14.5	14.8	17.1	18.1	17.5	18.4	18.8
8H	13.2	14.2	13.6	14.5	14.9	17.7	18.7	18.2	19.1	19.5
12H	13.3	14.1	13.7	14.5	14.9	18.5	19.4	18.9	19.7	20.2
8H 4H	13.5	14.4	13.9	14.8	15.2	16.0	17.0	16.5	17.4	17.8
6H	14.2	15.0	14.7	15.4	15.9	17.6	18.4	18.1	18.8	19.3
8H	14.5	15.2	15.0	15.6	16.1	18.5	19.2	18.9	19.6	20.1
12H	14.7	15.3	15.2	15.8	16.2	19.4	20.1	19.9	20.5	21.0
12H 4H	13.7	14.6	14.1	14.9	15.4	16.1	16.9	16.5	17.3	17.7
6H	14.6	15.3	15.1	15.7	16.2	17.7	18.4	18.2	18.9	19.3
8H	15.0	15.6	15.5	16.1	16.5	18.6	19.3	19.1	19.7	20.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117, 5343 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.8)
Area: 0.36 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

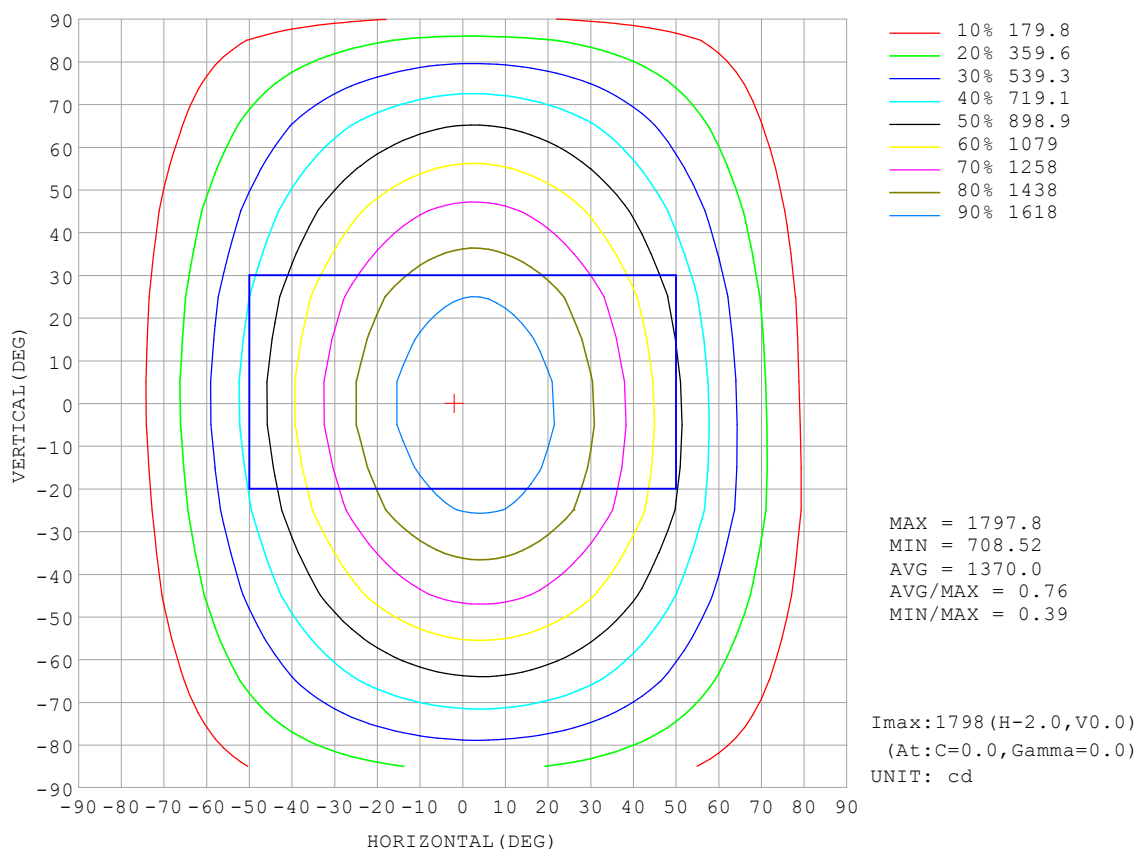
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	62	55	73	62	54	70	63	54	46
1.25	81	70	62	79	69	62	77	67	61	53
1.50	86	75	68	84	74	67	81	72	66	58
2.00	93	83	76	91	82	76	87	80	74	66
2.50	97	88	82	95	87	81	91	84	79	70
3.00	100	93	86	98	91	85	94	88	83	74
4.00	104	98	93	102	96	91	98	93	89	79
5.00	107	102	97	105	100	95	100	96	92	83
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:2025-10-25

$V(B)$ 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=1.0738]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

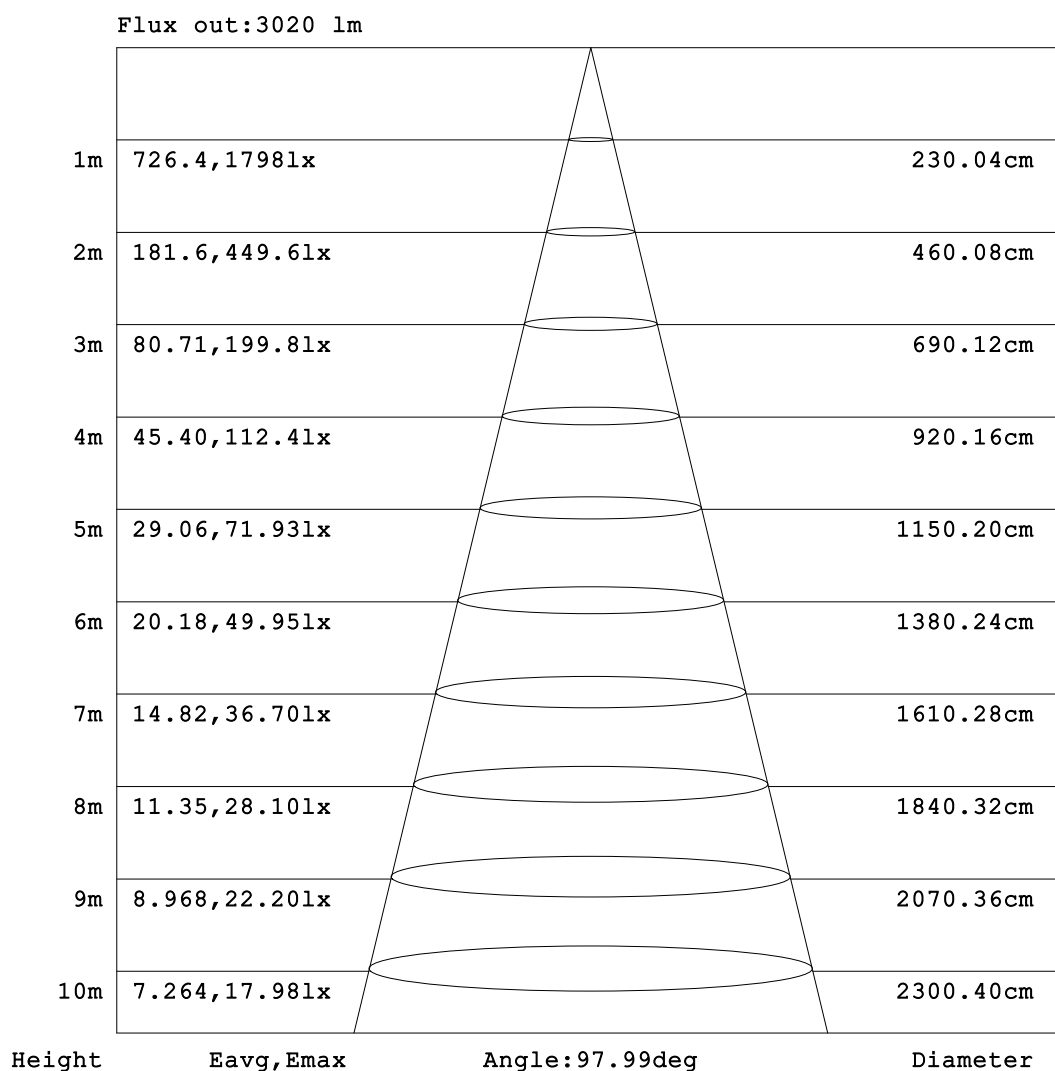


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

AAI Figure

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



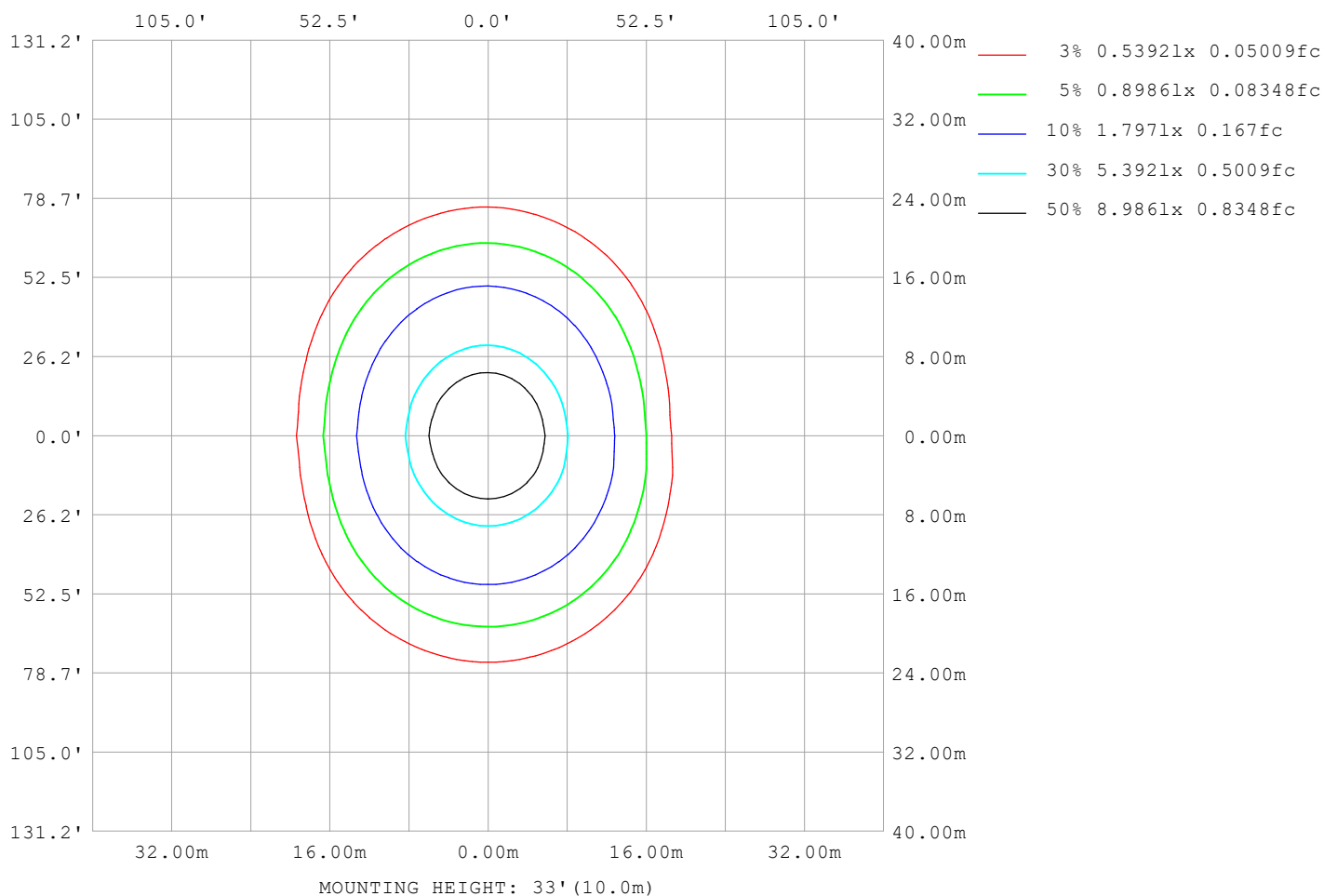
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: QUYEN
Test Date: 2025-10-25

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=1.0738]
Remarks:

ISOLUX DIAGRAM

Test: U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

LED Avg.L Report

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

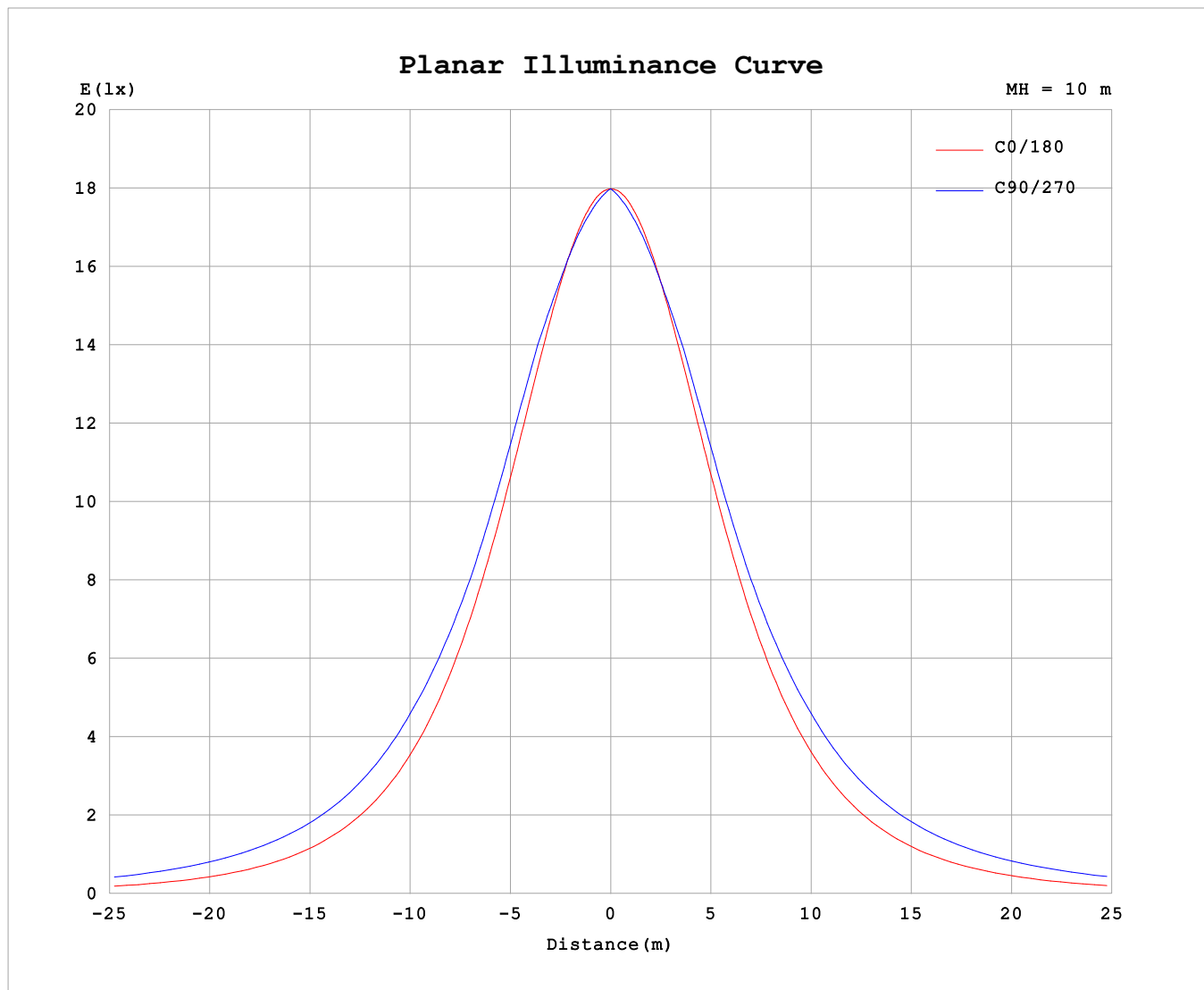
AvgL	cd/m2
L_0~180 (65) av	3007
L_0~180 (75) av	2309
L_0~180 (85) av	1191
L_90~270 (65) av	5845
L_90~270 (75) av	6947
L_90~270 (85) av	12530
L_45 (65) av	4531
L_45 (75) av	5122
L_45 (85) av	8253

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:2025-10-25

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=1.0738]
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:2025-10-25

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=1.0738]
Remarks:

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm

NAME: ETL SN-G2-4FT

MFR. : EVERTIE

Table--2

UNIT: cd

H(θ) Range:-90 - 90DEG
H(θ) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-10-25

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=1.0738]
Remarks:

Test:U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5343.38x1 lm		
NAME: ETLSN-G2-4FT		
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=1.0738]
Remarks:

Test: U:120.62V I:0.2731A P:32.871W PF:0.9977 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 5343.38x1 lm		
NAME: ETLSN-G2-4FT		
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=1.0738]
Remarks: