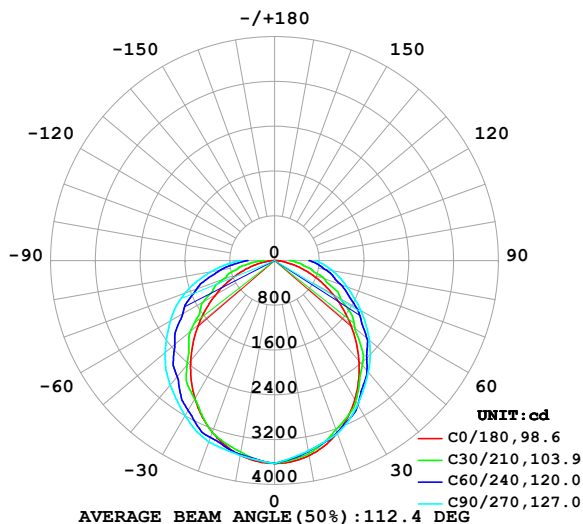


LUMINAIRE PHOTOMETRIC TEST REPORT

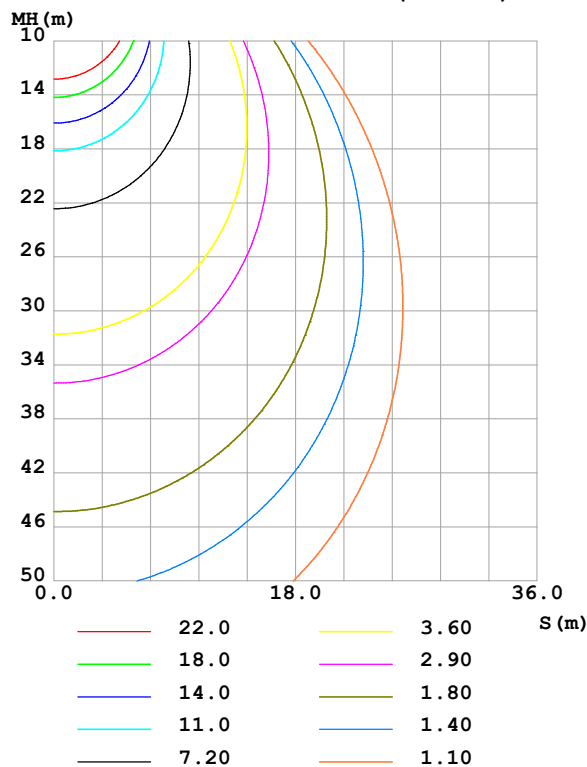
Test:U:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.89 lm/W			
MODEL		Imax (cd)	3623	S/MH(C0/180)	1.18
NOMINAL POWER(W)	68	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10799	η UP,DN(C0-180)	0.0,48.0
NOMINAL FLUX(lm)	10798.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.0
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:2025-11-05

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	3539	3476	3455	3440	3530	3497	3535	3531	0- 10	338.4	338.4	3.13,3.13
20	3280	3264	3287	3164	3263	3275	3446	3370	10- 20	959.6	1298	12,12
30	2867	2934	2970	2853	2849	3011	3200	3078	20- 30	1445	2743	25.4,25.4
40	2346	2467	2604	2418	2333	2610	2902	2633	30- 40	1721	4464	41.3,41.3
50	1772	1986	2207	1954	1773	2176	2551	2168	40- 50	1779	6243	57.8,57.8
60	1202	1527	1778	1481	1212	1716	2149	1714	50- 60	1637	7880	73,73
70	678.2	1106	1376	1025	689.4	1253	1709	1296	60- 70	1350	9230	85.5,85.5
80	232.7	770.6	1050	688.4	247.4	781.1	1157	829.2	70- 80	980.9	10211	94.6,94.6
90	8.176	465.0	725.1	456.6	17.71	341.6	604.6	317.3	80- 90	587.5	10799	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): 5358.7 lm

%lum = 49.6%

%lamp = 49.6%

Conical surface Flux(130deg): 8597.5 lm

%lum = 79.6%

%lamp = 79.6%

H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QUYEN
 Test Date:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz

UTHDi:0.00% ITHDi:0.00% KDisp:0

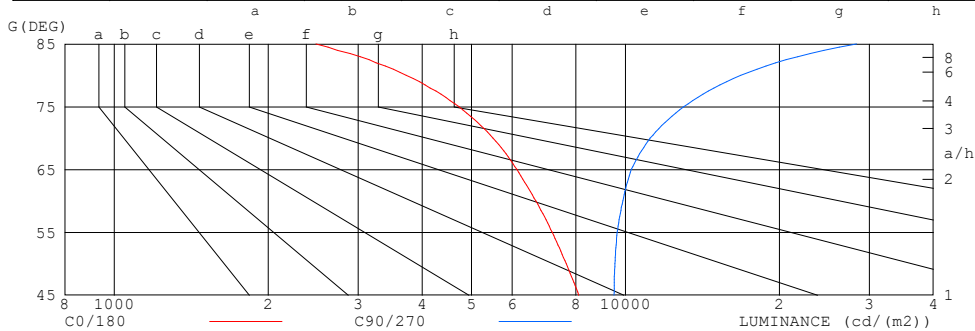
Lamp Flux:10798.8x1 lm

NAME: ETLSN-G2-4FT

MFR.: EVERTIE

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



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2481	28304
80	3722	16802
75	4724	13005
70	5508	11172
65	6129	10264
60	6676	9880
55	7186	9637
50	7656	9537
45	8103	9499

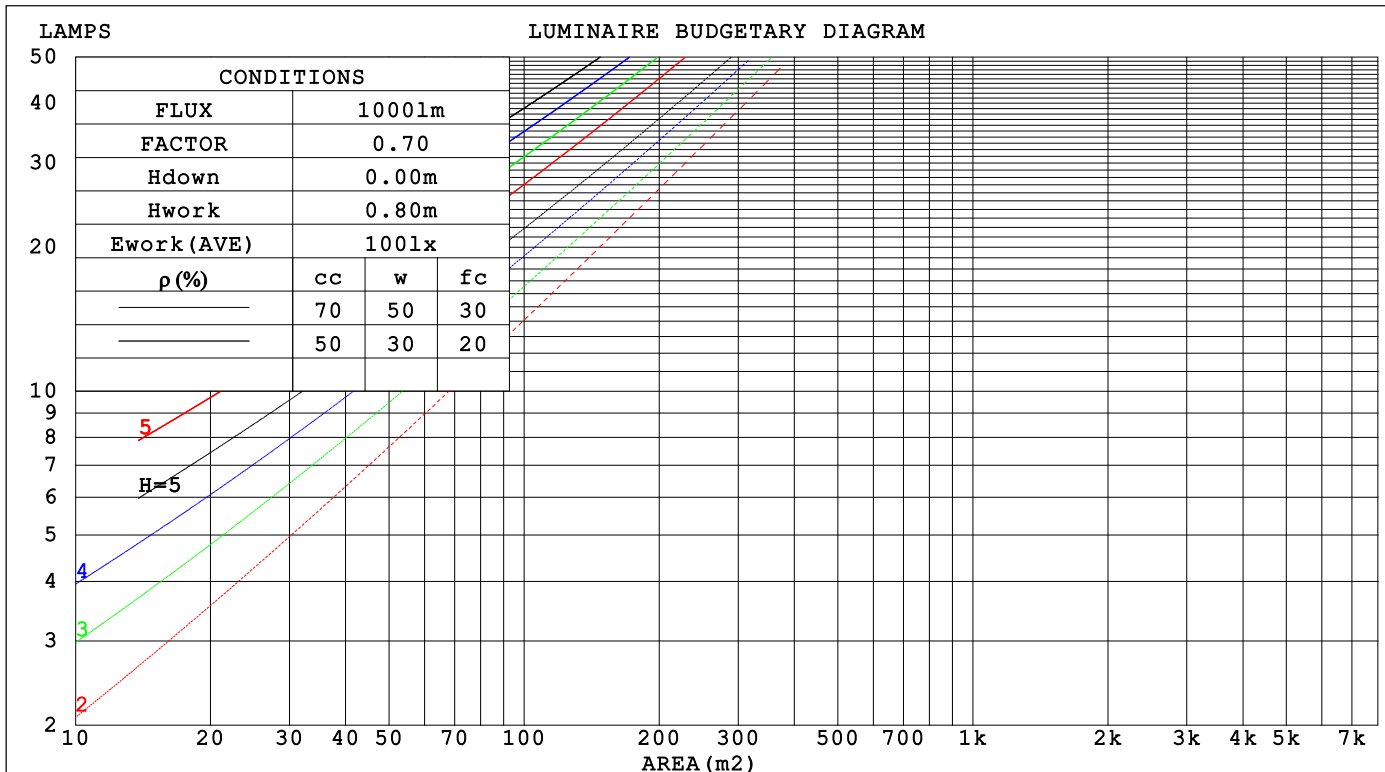
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

pcc	80%			70%			50%			30%			10%			0														
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
p _{fc}	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	1.01	.96	.92	.99	.95	.90	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80														
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.69	.76	.71	.68	.66														
3.0	.77	.68	.61	.75	.67	.60	.72	.65	.59	.69	.63	.58	.66	.61	.57	.55														
4.0	.68	.58	.51	.66	.58	.51	.64	.56	.50	.61	.55	.49	.59	.53	.49	.46														
5.0	.60	.51	.44	.59	.50	.44	.57	.49	.43	.55	.48	.43	.53	.47	.42	.40														
6.0	.54	.45	.38	.53	.45	.38	.51	.44	.38	.50	.43	.37	.48	.42	.37	.35														
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31														
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.29	.27														
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25														
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.24	.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:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 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	.357	.203	.064	.350	.200	.063	.336	.193	.062	.324	.187	.060	.312	.181	.058		
2.0	.319	.175	.054	.313	.172	.053	.301	.167	.052	.290	.163	.051	.280	.158	.050		
3.0	.288	.153	.046	.282	.151	.046	.272	.147	.045	.262	.144	.044	.253	.140	.043		
4.0	.262	.136	.040	.257	.134	.040	.247	.131	.039	.239	.128	.039	.231	.125	.038		
5.0	.240	.122	.035	.235	.121	.035	.227	.118	.035	.219	.116	.034	.212	.113	.034		
6.0	.221	.111	.032	.217	.109	.032	.209	.107	.031	.202	.105	.031	.196	.103	.031		
7.0	.204	.101	.029	.201	.100	.029	.194	.098	.028	.188	.096	.028	.182	.095	.028		
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.176	.089	.026	.170	.087	.025		
9.0	.178	.086	.024	.175	.085	.024	.169	.084	.024	.165	.082	.024	.160	.081	.023		
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.151	.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	.184	.156	.131	.157	.134	.112	.107	.092	.078	.062	.053	.045	.020	.017	.015		
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011		
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008		
4.0	.160	.101	.056	.137	.088	.049	.094	.061	.035	.055	.036	.020	.018	.012	.007		
5.0	.152	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006		
6.0	.145	.083	.038	.124	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005		
7.0	.137	.076	.032	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.131	.070	.028	.113	.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	.119	.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:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 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	9.1	10.7	9.4	10.9	11.1	10.7	12.3	11.0	12.5	12.7
3H	10.4	11.9	10.7	12.1	12.4	12.9	14.4	13.2	14.6	14.8
4H	10.9	12.3	11.2	12.5	12.8	14.1	15.5	14.4	15.7	16.0
6H	11.2	12.5	11.5	12.8	13.1	15.4	16.7	15.7	17.0	17.3
8H	11.3	12.5	11.6	12.8	13.1	16.1	17.4	16.4	17.7	18.0
12H	11.3	12.5	11.6	12.8	13.1	16.9	18.1	17.3	18.4	18.7
4H 2H	10.1	11.5	10.4	11.7	12.0	11.3	12.7	11.6	12.9	13.2
3H	11.6	12.8	11.9	13.1	13.4	13.7	14.9	14.0	15.2	15.5
4H	12.2	13.4	12.6	13.7	14.0	15.1	16.2	15.5	16.6	16.9
6H	12.7	13.7	13.1	14.1	14.4	16.6	17.6	17.0	18.0	18.4
8H	12.8	13.8	13.2	14.1	14.5	17.5	18.4	17.9	18.8	19.2
12H	12.9	13.8	13.3	14.1	14.6	18.4	19.3	18.9	19.7	20.1
8H 4H	13.0	14.0	13.4	14.4	14.7	15.4	16.4	15.8	16.7	17.1
6H	13.8	14.6	14.2	15.0	15.4	17.2	18.0	17.7	18.5	18.9
8H	14.1	14.8	14.5	15.2	15.7	18.3	19.0	18.8	19.4	19.9
12H	14.3	14.9	14.8	15.4	15.8	19.5	20.1	20.0	20.6	21.1
12H 4H	13.3	14.2	13.7	14.6	15.0	15.4	16.3	15.9	16.7	17.1
6H	14.2	15.0	14.7	15.4	15.8	17.3	18.1	17.8	18.5	19.0
8H	14.7	15.3	15.2	15.8	16.2	18.5	19.1	19.0	19.6	20.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 10799 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.3)
Area: 0.36 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

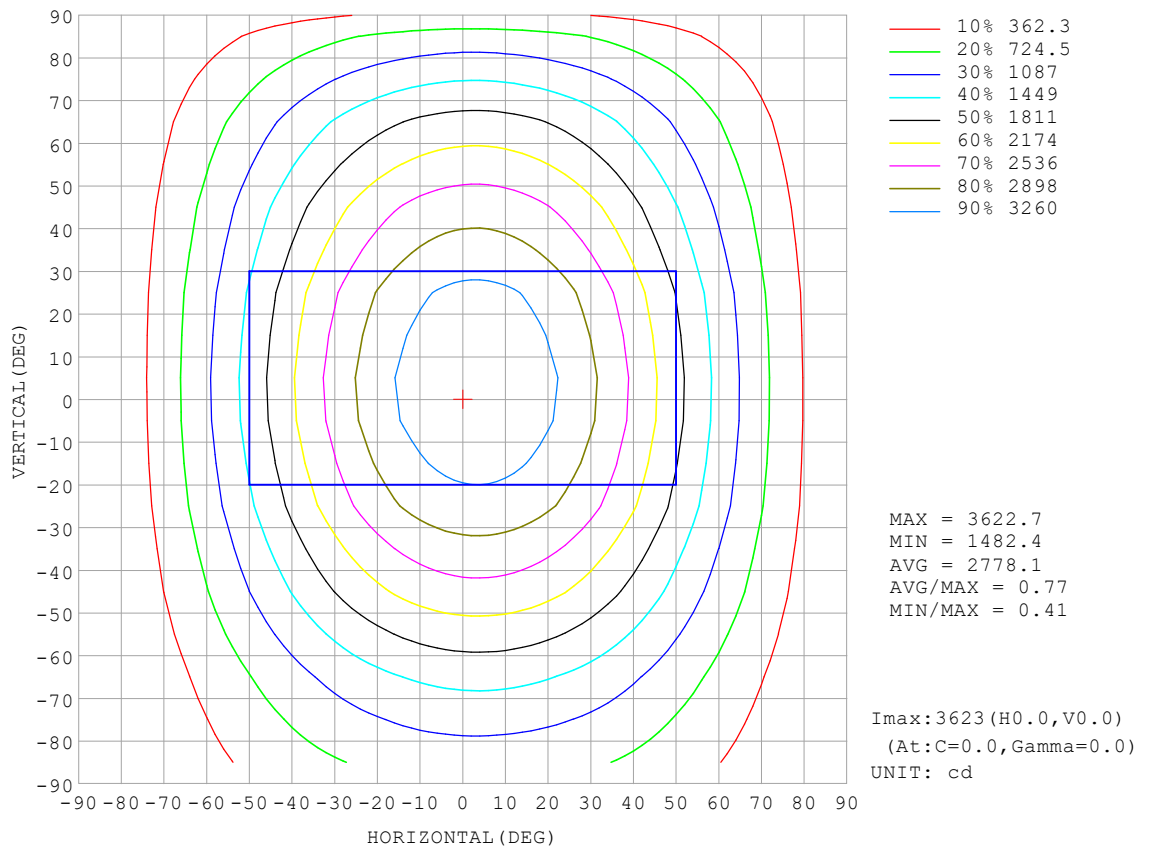
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	53	46	65	53	46	63	52	45	38
1.00	74	62	54	72	61	54	70	63	53	46
1.25	81	69	62	79	69	61	76	67	61	53
1.50	86	75	67	84	74	67	81	72	66	58
2.00	92	83	76	91	82	75	87	80	74	65
2.50	97	88	81	94	87	80	90	84	78	70
3.00	100	92	86	98	91	85	94	88	83	74
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	101	97	104	99	95	100	96	92	82
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:2025-11-05

$V(B)$ 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:

ISOCANDELA DIAGRAM

Test:U:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

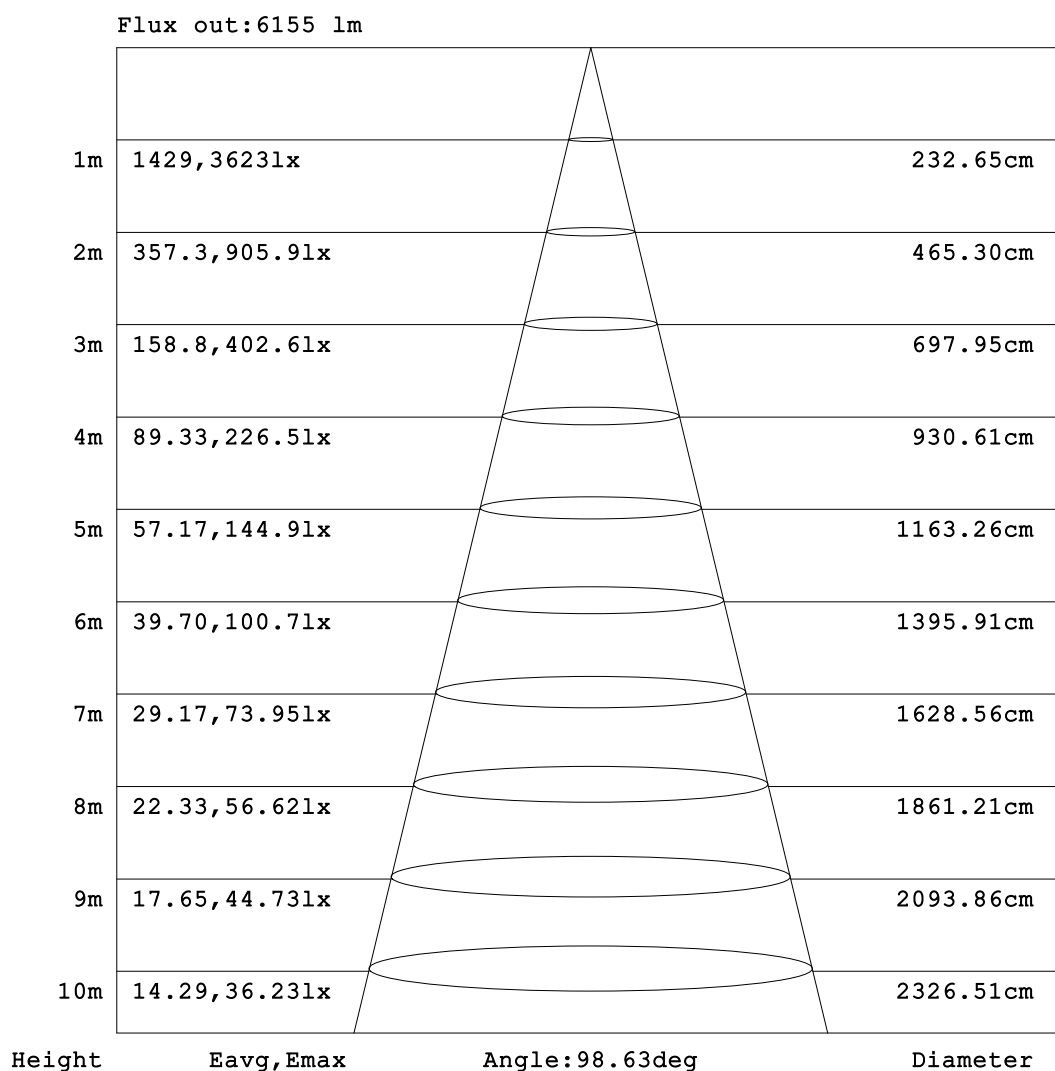


H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QUYEN
 Test Date:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



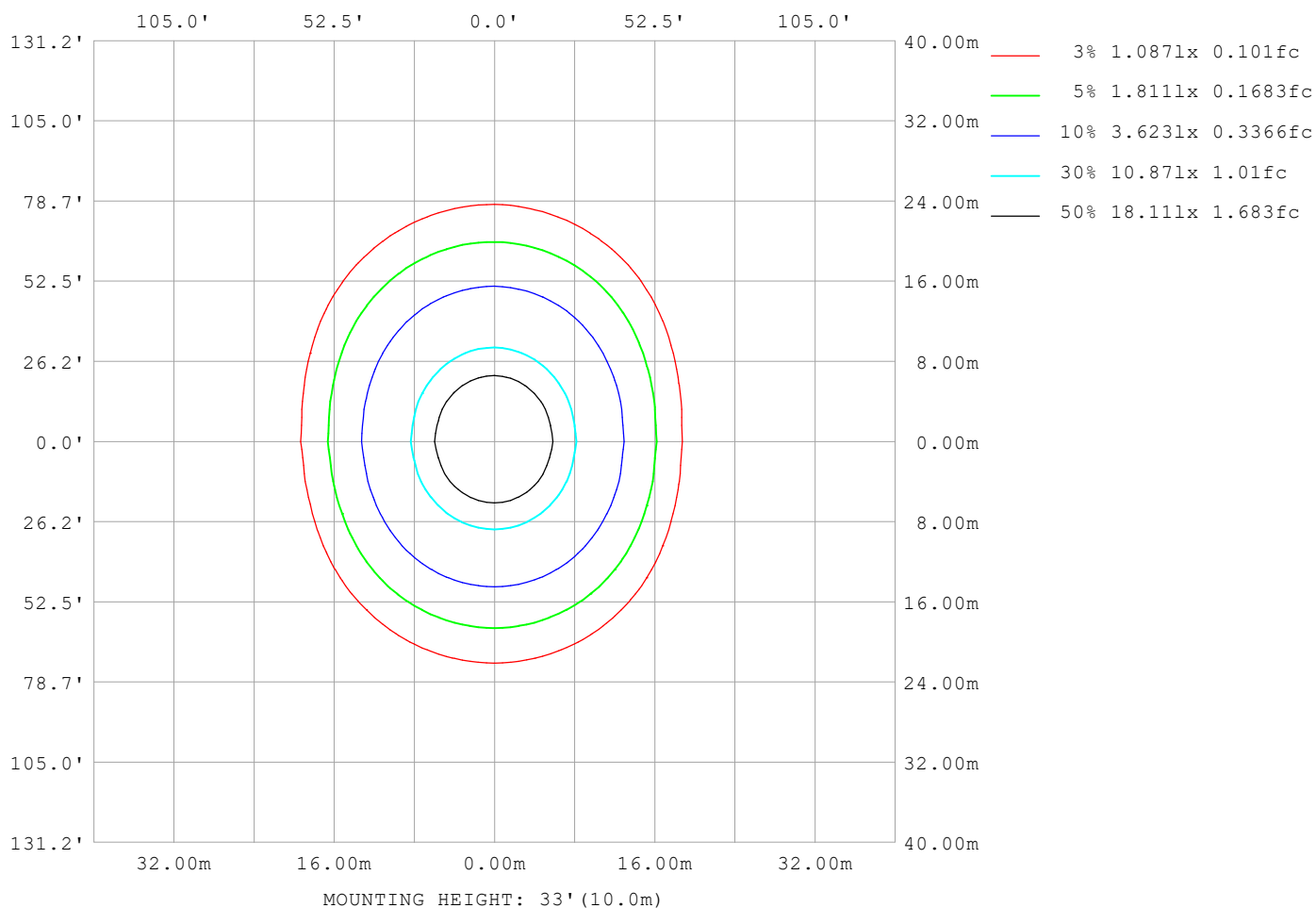
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: QUYEN
 Test Date: 2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 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:2025-11-05

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:120.54V I:0.5445A P:65.491W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10798.8x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

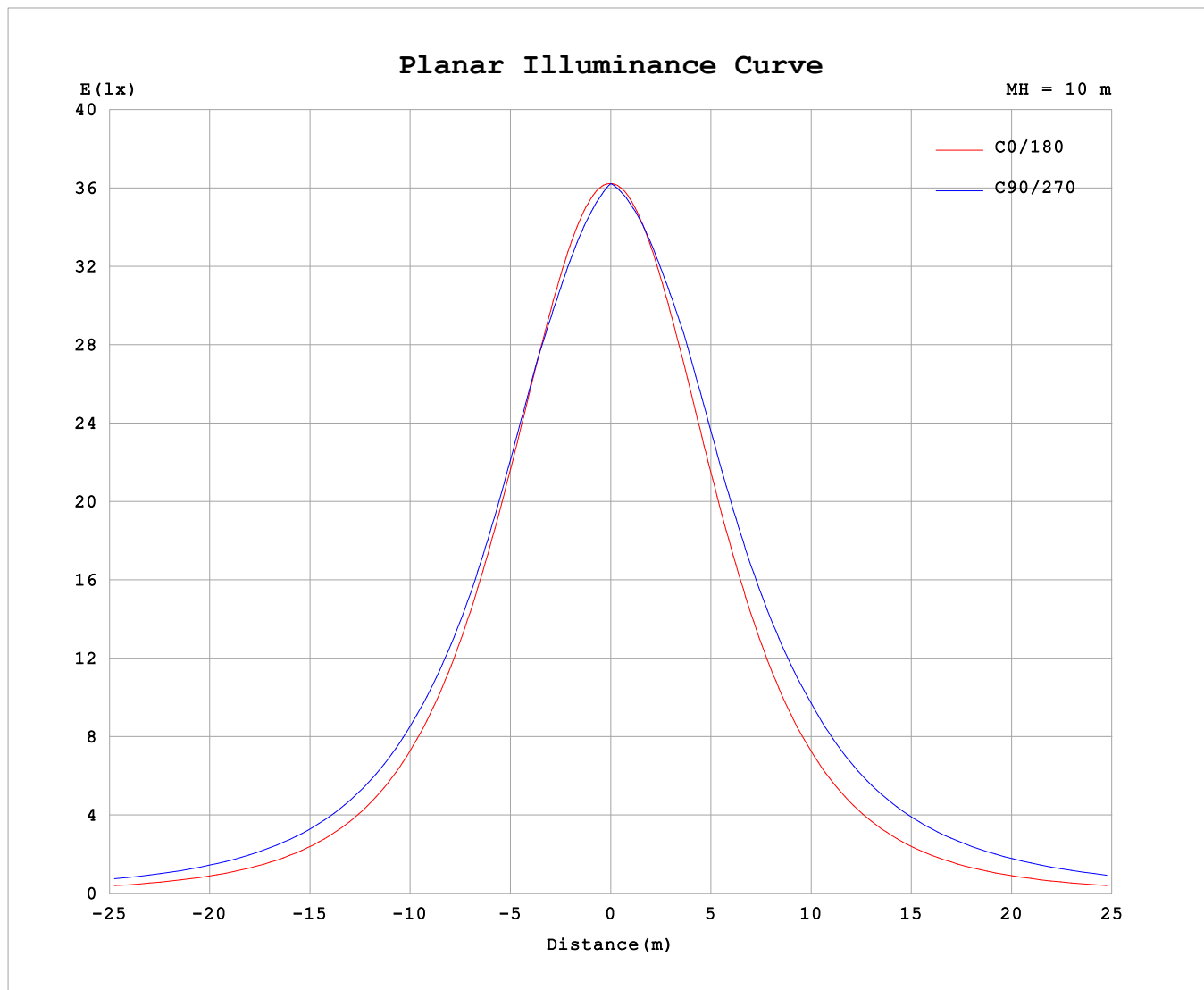
AvgL	cd/m2
L_0~180 (65) av	6166
L_0~180 (75) av	4799
L_0~180 (85) av	2661
L_90~270 (65) av	11526
L_90~270 (75) av	14186
L_90~270 (85) av	28190
L_45 (65) av	9087
L_45 (75) av	10378
L_45 (85) av	18398

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:2025-11-05

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:2025-11-05

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:

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:

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: