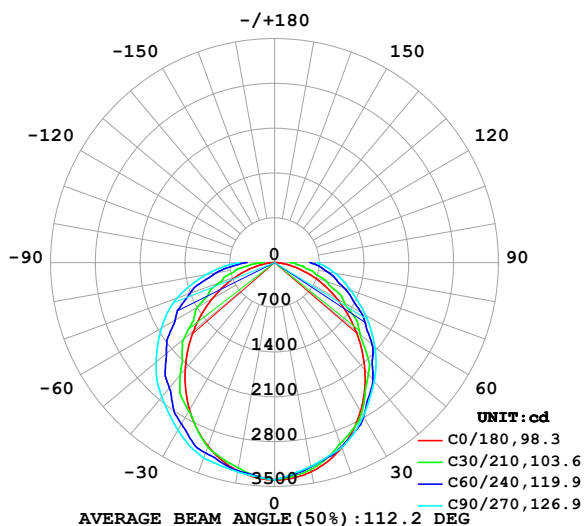


LUMINAIRE PHOTOMETRIC TEST REPORT

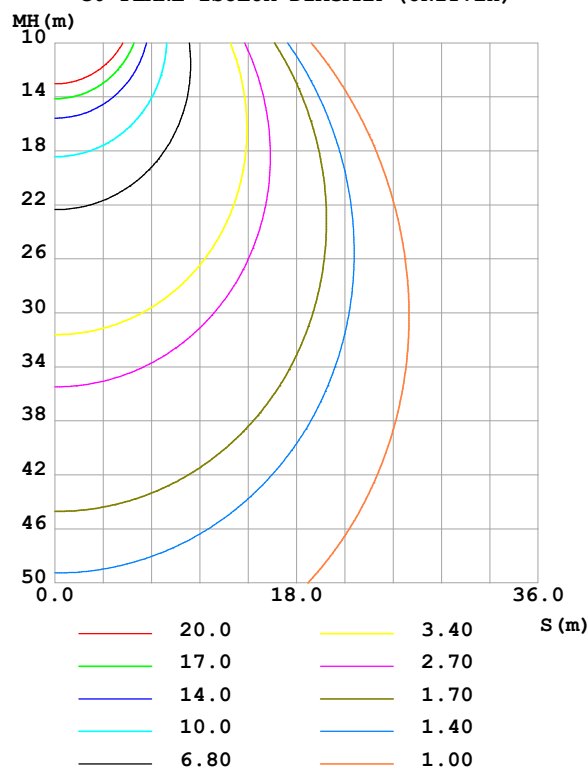
Test:U:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.20 lm/W			
MODEL		I _{max} (cd)	3398	S/MH(C0/180)	1.17
NOMINAL POWER(W)	68	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10106	η UP,DN(C0-180)	0.0,47.6
NOMINAL FLUX(lm)	10105.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.4
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℃
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	3319	3258	3236	3219	3307	3282	3324	3318	0- 10	317.3	317.3	3.14,3.14
20	3075	3058	3075	2955	3053	3078	3250	3173	10- 20	900.1	1217	12,12
30	2686	2746	2773	2655	2661	2835	3023	2903	20- 30	1355	2573	25.5,25.5
40	2196	2300	2422	2245	2175	2461	2746	2489	30- 40	1613	4186	41.4,41.4
50	1657	1841	2045	1812	1650	2058	2419	2053	40- 50	1666	5852	57.9,57.9
60	1124	1408	1641	1371	1125	1626	2042	1625	50- 60	1533	7385	73.1,73.1
70	634.6	1017	1263	944.7	638.1	1193	1625	1229	60- 70	1264	8649	85.6,85.6
80	219.9	702.8	960.3	629.9	228.5	740.5	1086	781.4	70- 80	915.4	9565	94.6,94.6
90	6.566	414.7	657.9	411.9	16.30	313.6	546.3	290.4	80- 90	541.2	10106	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): 5024.4 lm

%lum = 49.7%

%lamp = 49.7%

Conical surface Flux(130deg): 8056.8 lm

%lum = 79.7%

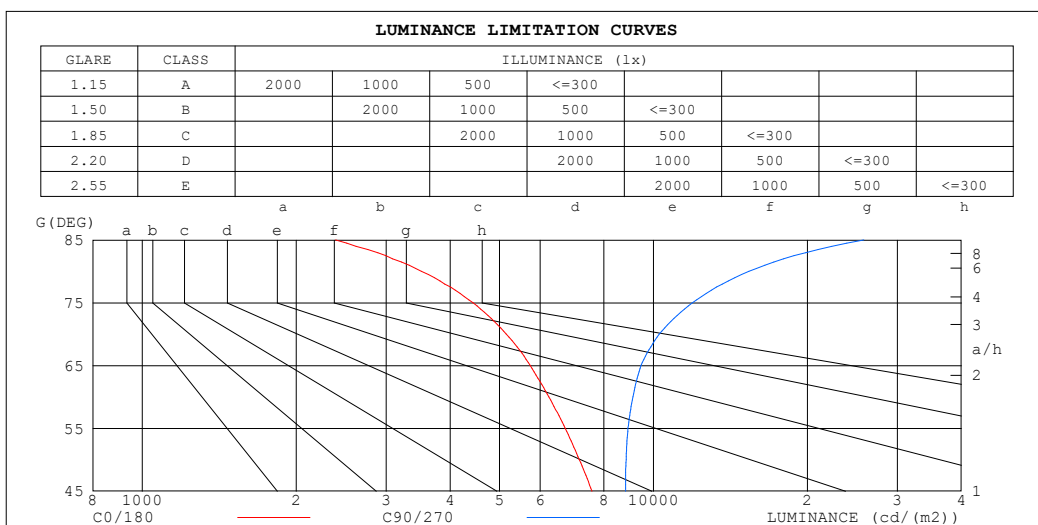
%lamp = 79.7%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2387	25802
80	3517	15362
75	4436	11918
70	5154	10255
65	5741	9446
60	6243	9119
55	6719	8915
50	7160	8839
45	7578	8817

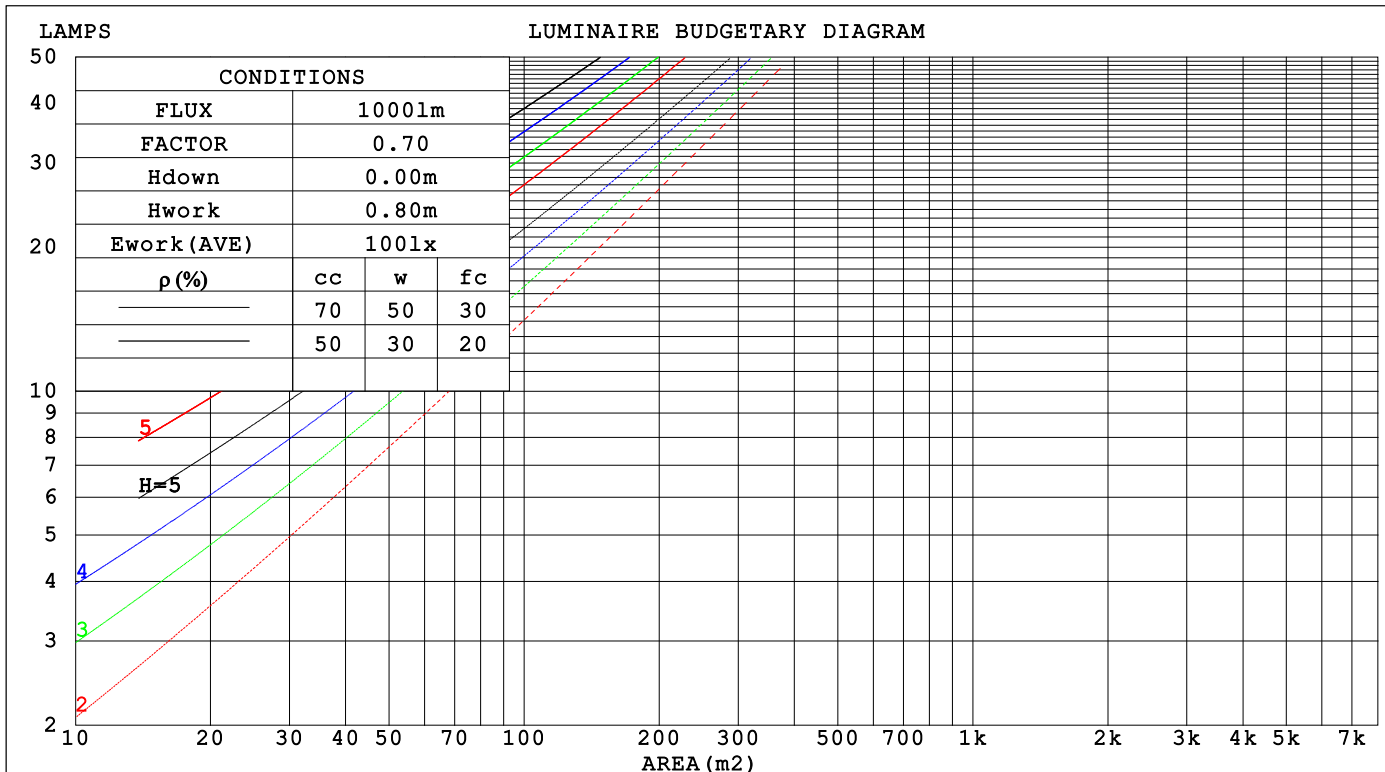
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-05

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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLN-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	.97	.92	.99	.95	.91	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80														
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.70	.76	.72	.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	.47														
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	.52	.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	.30	.28														
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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 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	.356	.202	.064	.349	.199	.063	.335	.192	.061	.323	.186	.060	.311	.181	.058		
2.0	.318	.175	.054	.312	.172	.053	.300	.167	.052	.289	.162	.051	.279	.158	.050		
3.0	.288	.153	.046	.282	.151	.045	.271	.147	.045	.262	.143	.044	.253	.140	.043		
4.0	.262	.136	.040	.257	.134	.040	.247	.131	.039	.239	.128	.039	.230	.125	.038		
5.0	.239	.122	.035	.235	.121	.035	.227	.118	.035	.219	.116	.034	.212	.113	.034		
6.0	.220	.111	.032	.217	.109	.031	.209	.107	.031	.202	.105	.031	.196	.103	.031		
7.0	.204	.101	.029	.201	.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	.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	.087	.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	.024	.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	.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:2025-11-05

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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 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	10.6	12.2	10.9	12.4	12.6
3H	10.4	11.8	10.7	12.1	12.3	12.8	14.2	13.1	14.5	14.7
4H	10.8	12.3	11.2	12.5	12.8	14.0	15.4	14.3	15.6	15.9
6H	11.2	12.5	11.5	12.8	13.0	15.2	16.6	15.6	16.9	17.1
8H	11.2	12.5	11.6	12.8	13.1	16.0	17.2	16.3	17.5	17.8
12H	11.2	12.5	11.6	12.8	13.1	16.7	18.0	17.1	18.3	18.6
4H 2H	10.0	11.4	10.3	11.7	11.9	11.2	12.6	11.5	12.8	13.1
3H	11.5	12.8	11.9	13.1	13.4	13.6	14.8	13.9	15.1	15.4
4H	12.2	13.3	12.5	13.6	14.0	15.0	16.1	15.3	16.4	16.8
6H	12.6	13.6	13.0	14.0	14.4	16.5	17.5	16.9	17.9	18.2
8H	12.7	13.7	13.2	14.1	14.5	17.3	18.3	17.7	18.6	19.0
12H	12.8	13.7	13.2	14.1	14.5	18.3	19.1	18.7	19.5	19.9
8H 4H	12.9	13.9	13.4	14.3	14.7	15.3	16.2	15.7	16.6	17.0
6H	13.7	14.5	14.2	14.9	15.4	17.1	17.9	17.5	18.3	18.7
8H	14.0	14.7	14.5	15.1	15.6	18.1	18.9	18.6	19.3	19.7
12H	14.2	14.8	14.7	15.3	15.7	19.3	20.0	19.8	20.4	20.9
12H 4H	13.2	14.1	13.6	14.5	14.9	15.3	16.2	15.7	16.6	17.0
6H	14.1	14.9	14.6	15.3	15.7	17.2	17.9	17.7	18.3	18.8
8H	14.6	15.2	15.0	15.7	16.1	18.3	19.0	18.8	19.4	19.9
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, 10106 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.0)
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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

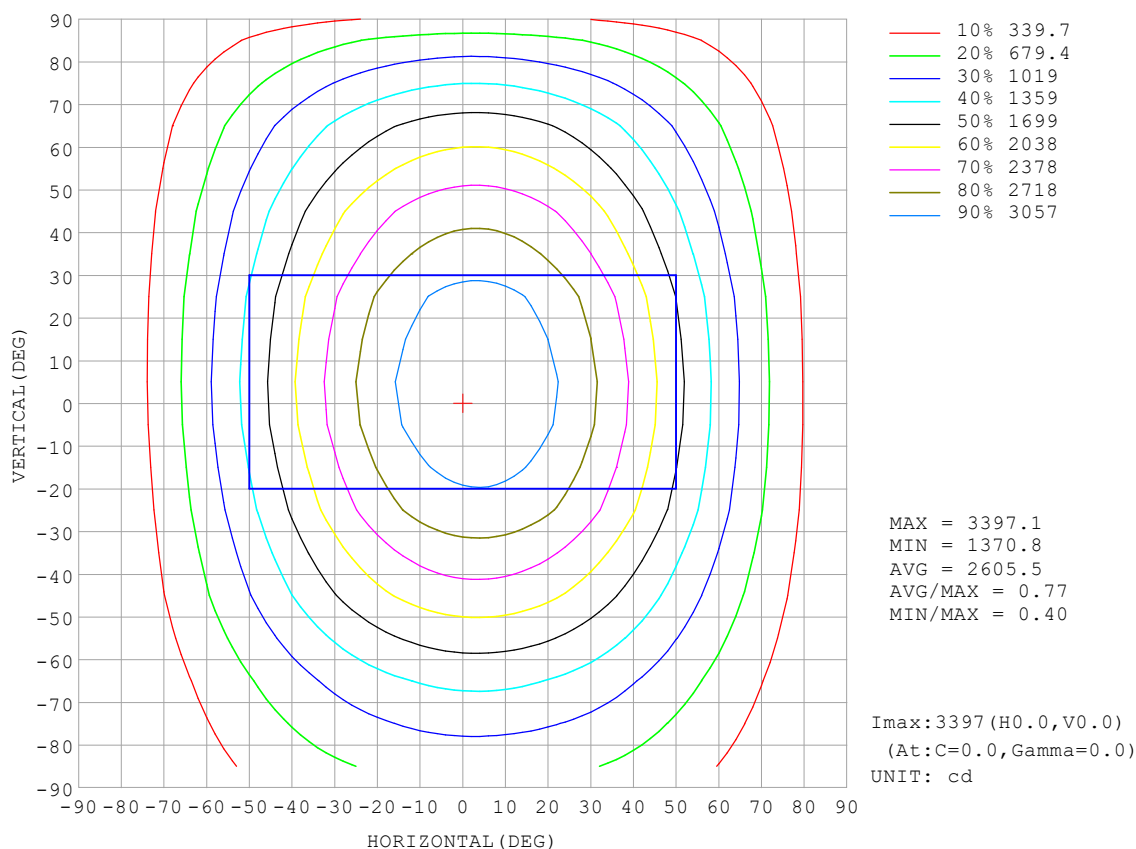
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	62	54	72	61	54	70	63	54	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	93	83	76	91	82	75	87	80	74	65
2.50	97	88	81	94	87	80	90	84	79	70
3.00	100	92	86	98	91	85	94	88	83	74
4.00	104	98	92	102	96	91	97	93	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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

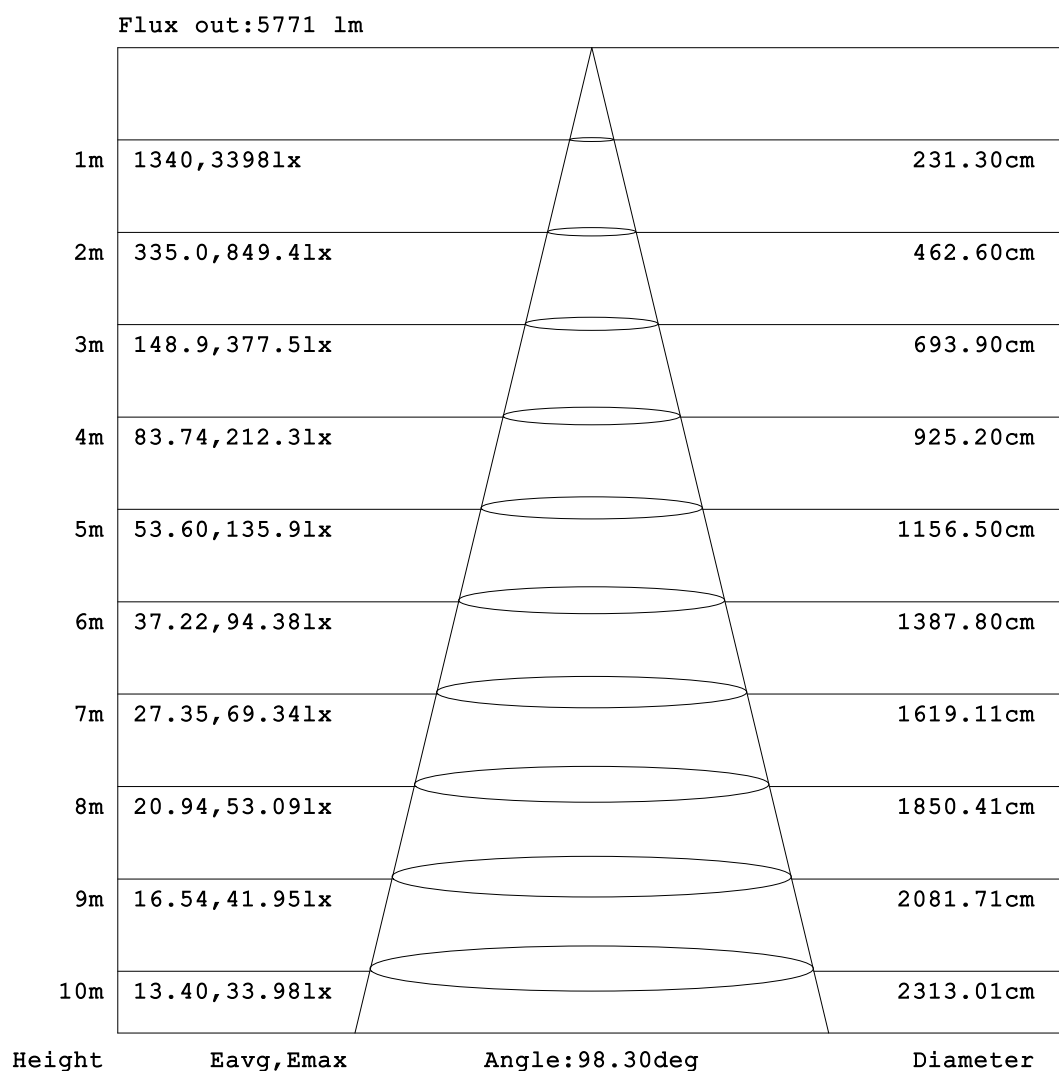


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-05

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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



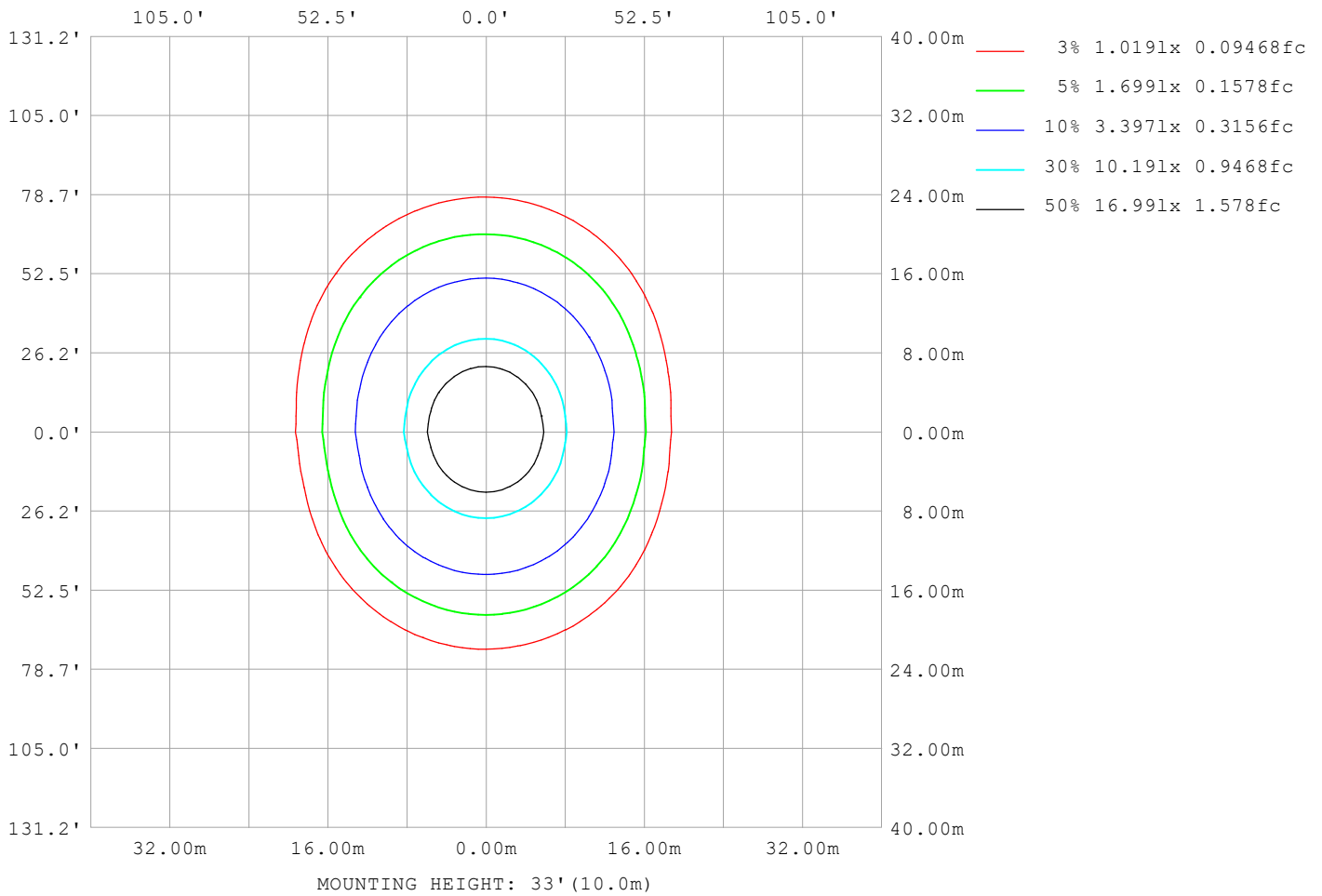
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 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:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10105.7x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

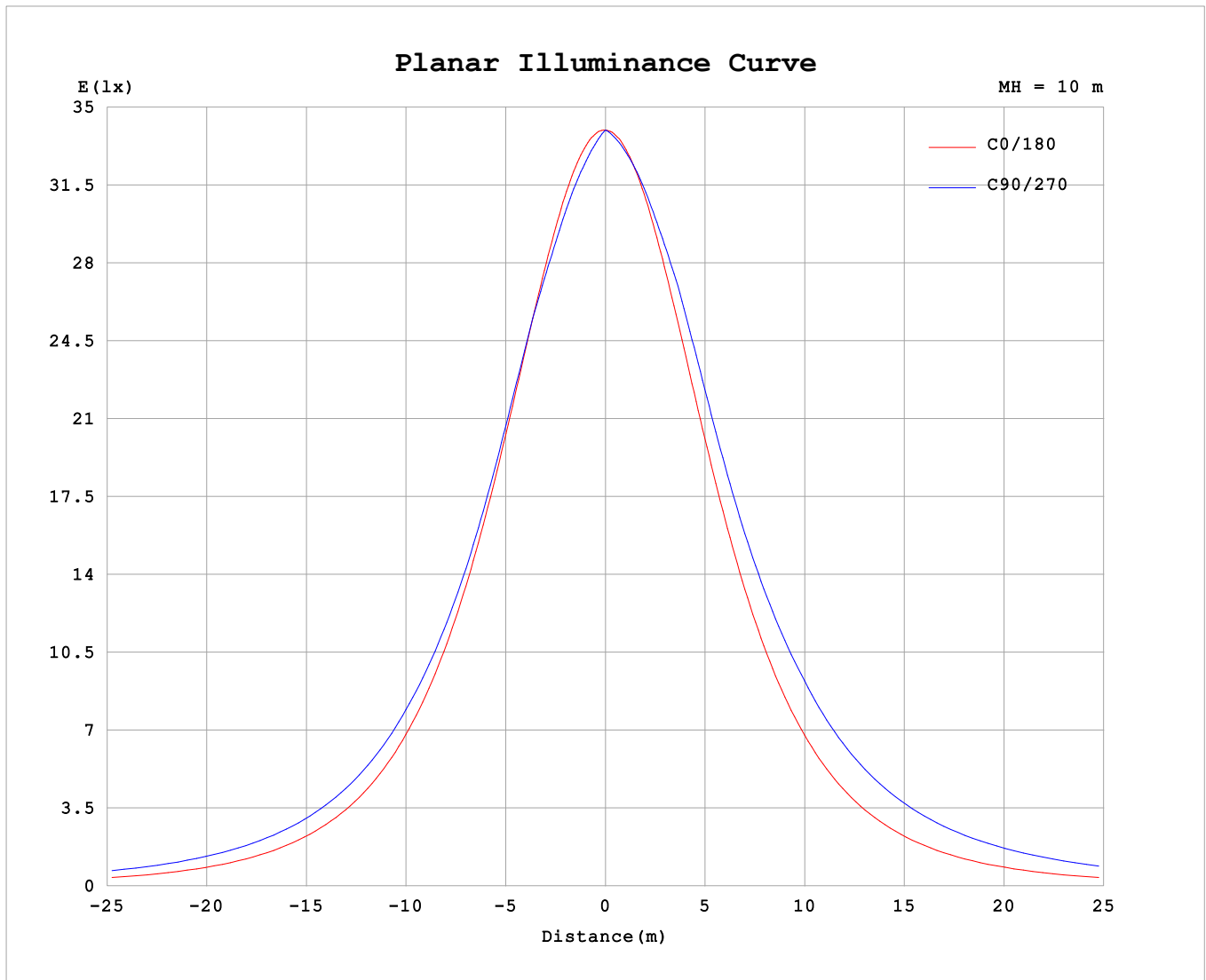
AvgL	cd/m2
L_0~180 (65) av	5746
L_0~180 (75) av	4466
L_0~180 (85) av	2475
L_90~270 (65) av	10807
L_90~270 (75) av	13225
L_90~270 (85) av	25909
L_45 (65) av	8510
L_45 (75) av	9704
L_45 (85) av	16952

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:

Test: U:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 10105.7x1 lm		
NAME: ETLN-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=1.0820]
Remarks:

Test: U:120.52V I:0.5557A P:66.839W PF:0.9979 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 10105.7×1 lm		
NAME: ETLN-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=1.0820]
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: