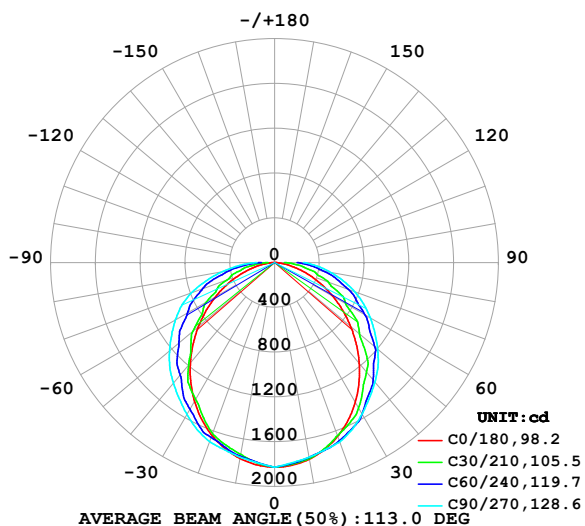


LUMINAIRE PHOTOMETRIC TEST REPORT

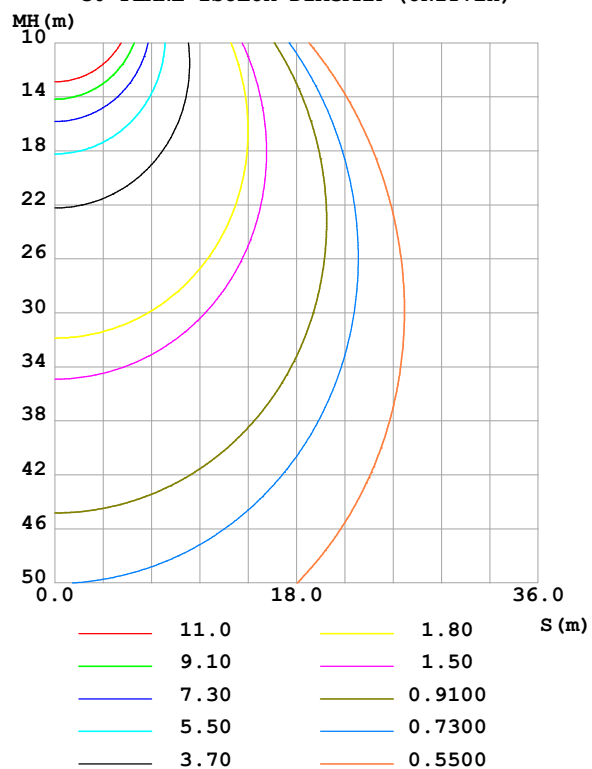
Test:U:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 166.97 lm/W			
MODEL		Imax (cd)	1828	S/MH(C0/180)	1.17
NOMINAL POWER(W)	34	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5391.2	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	5391.17	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	1783	1770	1766	1748	1777	1748	1765	1767	0- 10	170.7	170.7	3.17,3.17
20	1651	1683	1705	1620	1642	1624	1702	1673	10- 20	484.2	654.9	12.1,12.1
30	1441	1534	1563	1471	1432	1478	1567	1515	20- 30	729.6	1384	25.7,25.7
40	1177	1306	1395	1258	1172	1270	1407	1286	30- 40	869.6	2254	41.8,41.8
50	887.0	1067	1203	1029	888.2	1046	1226	1050	40- 50	900.3	3154	58.5,58.5
60	600.0	832.1	987.7	792.4	607.9	812.3	1023	822.6	50- 60	829.8	3984	73.9,73.9
70	333.2	611.4	763.0	561.5	346.6	582.4	791.6	612.7	60- 70	684.4	4668	86.6,86.6
80	111.0	383.7	510.5	347.3	124.6	333.0	475.5	368.0	70- 80	479.8	5148	95.5,95.5
90	5.520	144.8	258.0	159.3	9.043	88.14	159.5	100.3	80- 90	243.0	5391	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): 2706.9 lm

%lum = 50.2%

%lamp = 50.2%

Conical surface Flux(130deg): 4348.1 lm

%lum = 80.7%

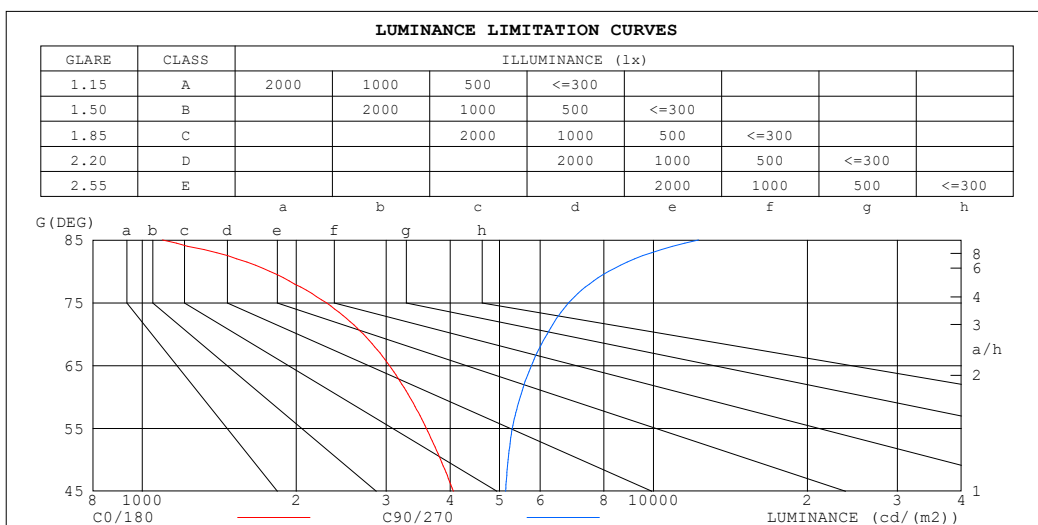
%lamp = 80.7%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1094	12257
80	1776	8166
75	2291	6825
70	2706	6197
65	3045	5772
60	3333	5487
55	3594	5294
50	3833	5199
45	4058	5138

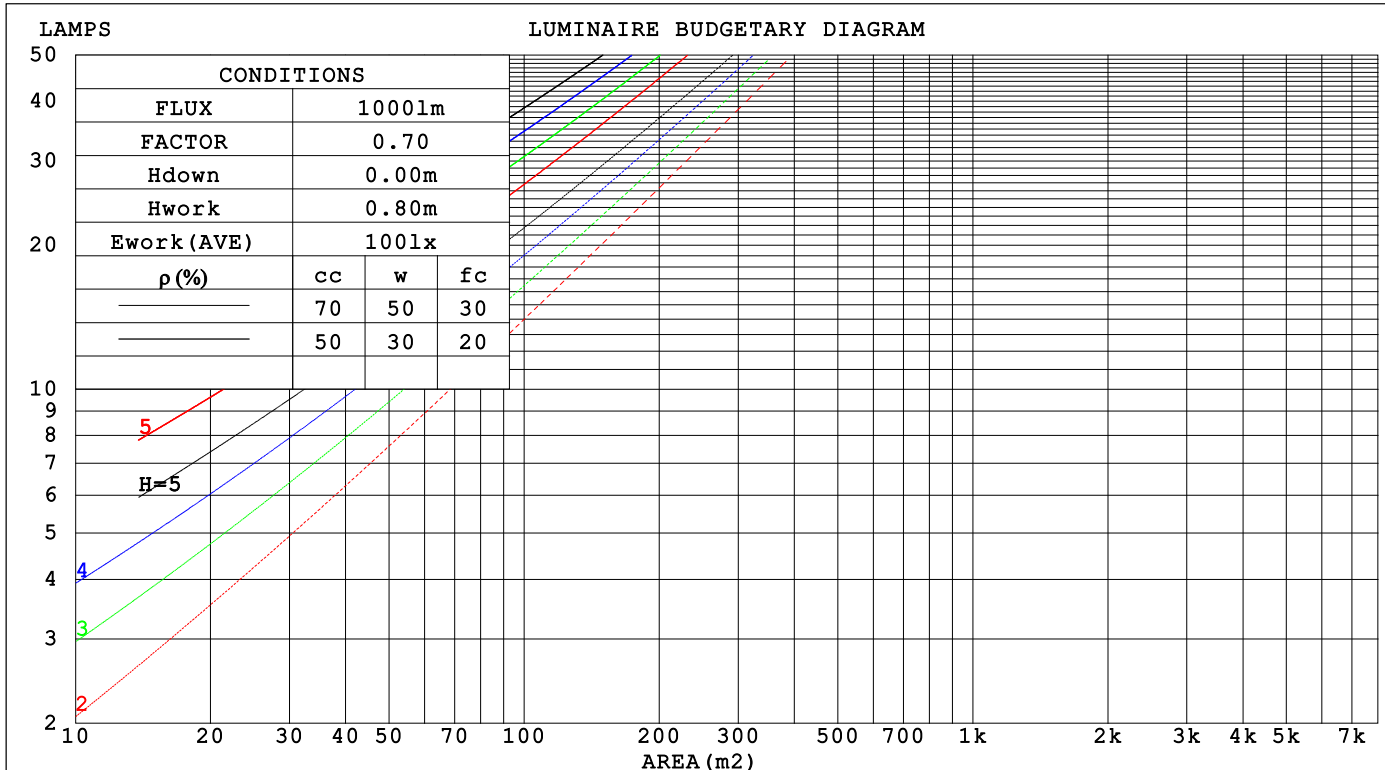
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-10-25

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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 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	1.02	.97	.93	.90	.95	.91	.95	.92	.88	.91	.88	.86	.88	.85	.83	.81
2.0	.88	.81	.75	.86	.79	.74	.83	.77	.72	.79	.74	.70	.76	.72	.69	.66
3.0	.77	.68	.61	.75	.67	.61	.72	.65	.60	.70	.64	.59	.67	.62	.58	.55
4.0	.68	.59	.52	.67	.58	.51	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47
5.0	.61	.51	.44	.60	.51	.44	.57	.50	.44	.55	.49	.43	.54	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.50	.41	.34	.49	.40	.34	.47	.39	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 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	.347	.197	.063	.340	.194	.062	.326	.187	.060	.314	.181	.058	.303	.175	.057	
2.0	.314	.172	.053	.308	.169	.052	.296	.164	.051	.285	.160	.050	.275	.155	.049	
3.0	.285	.152	.045	.279	.150	.045	.269	.146	.044	.259	.142	.044	.250	.138	.043	
4.0	.260	.135	.040	.255	.133	.039	.245	.130	.039	.237	.127	.038	.229	.124	.038	
5.0	.238	.121	.035	.234	.120	.035	.225	.117	.035	.218	.115	.034	.211	.113	.034	
6.0	.220	.110	.031	.216	.109	.031	.208	.107	.031	.201	.105	.031	.195	.103	.030	
7.0	.203	.101	.029	.200	.100	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.189	.093	.026	.186	.092	.026	.180	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.159	.081	.023	
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.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	.156	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.175	.132	.095	.150	.113	.082	.103	.078	.057	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.072	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.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	.071	.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	.130	.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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 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	9.5	11.0	9.7	11.3	11.5	11.4	13.0	11.7	13.2	13.4
3H	10.7	12.2	11.1	12.4	12.7	13.6	15.1	13.9	15.3	15.6
4H	11.2	12.6	11.5	12.9	13.1	14.7	16.1	15.0	16.4	16.6
6H	11.5	12.8	11.9	13.1	13.4	15.8	17.1	16.2	17.4	17.7
8H	11.6	12.9	11.9	13.1	13.4	16.4	17.7	16.7	17.9	18.2
12H	11.6	12.8	12.0	13.1	13.4	17.0	18.2	17.3	18.5	18.8
4H 2H	10.5	11.9	10.8	12.1	12.4	11.9	13.3	12.2	13.6	13.8
3H	12.0	13.3	12.4	13.6	13.9	14.4	15.6	14.8	15.9	16.2
4H	12.7	13.8	13.0	14.1	14.5	15.7	16.8	16.1	17.2	17.5
6H	13.1	14.1	13.5	14.5	14.9	17.0	18.0	17.4	18.4	18.8
8H	13.2	14.2	13.7	14.6	14.9	17.7	18.6	18.1	19.0	19.4
12H	13.3	14.2	13.7	14.6	15.0	18.4	19.3	18.8	19.7	20.1
8H 4H	13.5	14.4	13.9	14.8	15.2	16.0	17.0	16.4	17.3	17.7
6H	14.2	15.0	14.7	15.4	15.9	17.6	18.4	18.0	18.8	19.2
8H	14.5	15.2	15.0	15.7	16.1	18.4	19.1	18.9	19.6	20.0
12H	14.7	15.3	15.2	15.8	16.2	19.4	20.0	19.8	20.4	20.9
12H 4H	13.7	14.6	14.1	15.0	15.4	16.0	16.9	16.4	17.3	17.7
6H	14.6	15.3	15.1	15.7	16.2	17.7	18.4	18.1	18.8	19.2
8H	15.0	15.6	15.5	16.1	16.5	18.6	19.2	19.1	19.7	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	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 5391 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.9)
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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

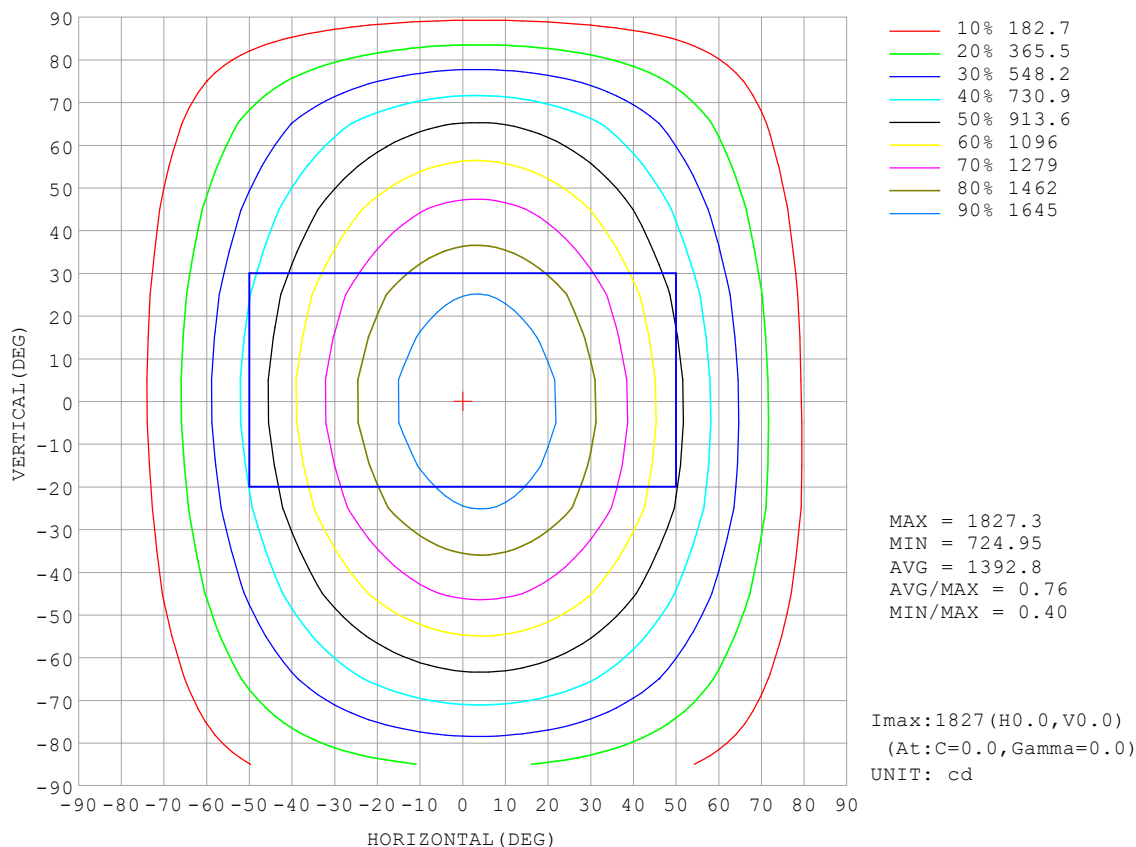
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	44	37	30
0.80	66	54	46	65	53	46	63	53	46	39
1.00	74	62	55	73	62	55	70	63	54	47
1.25	81	70	62	79	69	62	77	68	61	54
1.50	86	75	68	84	75	68	81	73	66	59
2.00	93	84	77	91	82	76	87	80	74	66
2.50	97	89	82	95	87	81	91	84	79	70
3.00	100	93	87	98	91	86	94	88	84	75
4.00	105	98	93	102	97	92	98	93	89	80
5.00	107	102	97	105	100	96	100	96	93	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

$V(\beta)$ 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=1.0738]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		



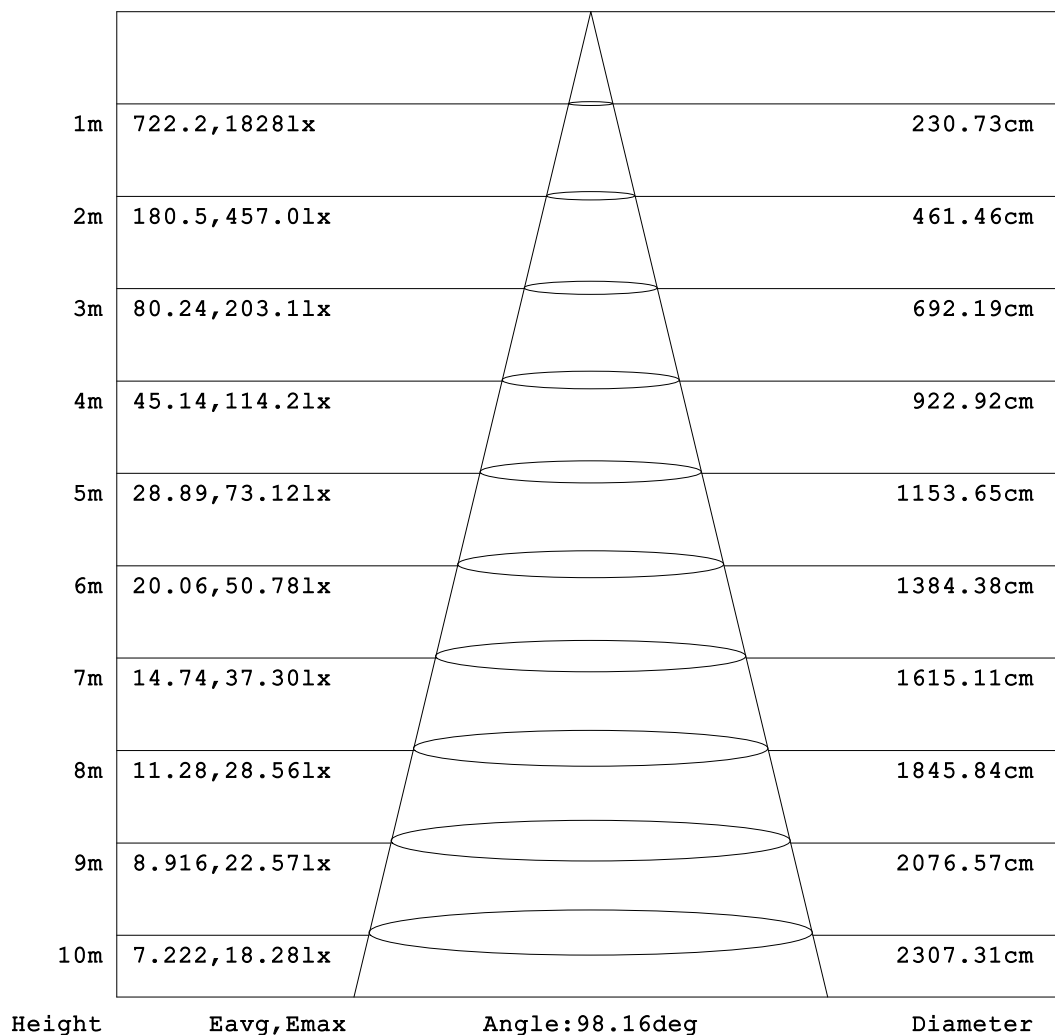
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-10-25

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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

Flux out:3110 lm



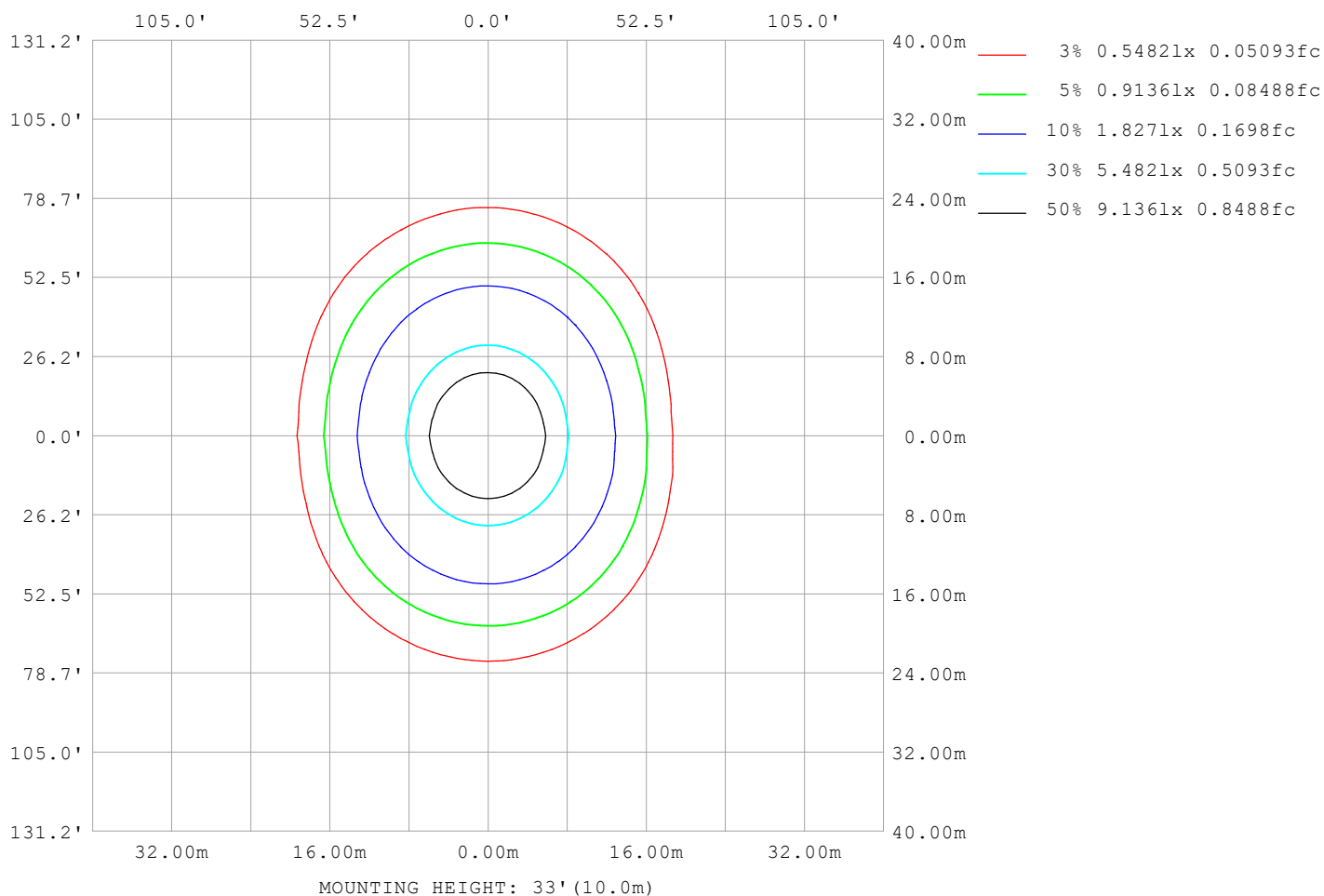
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 5391.17x1 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:

LED Avg.L Report

Test:U:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5391.17x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

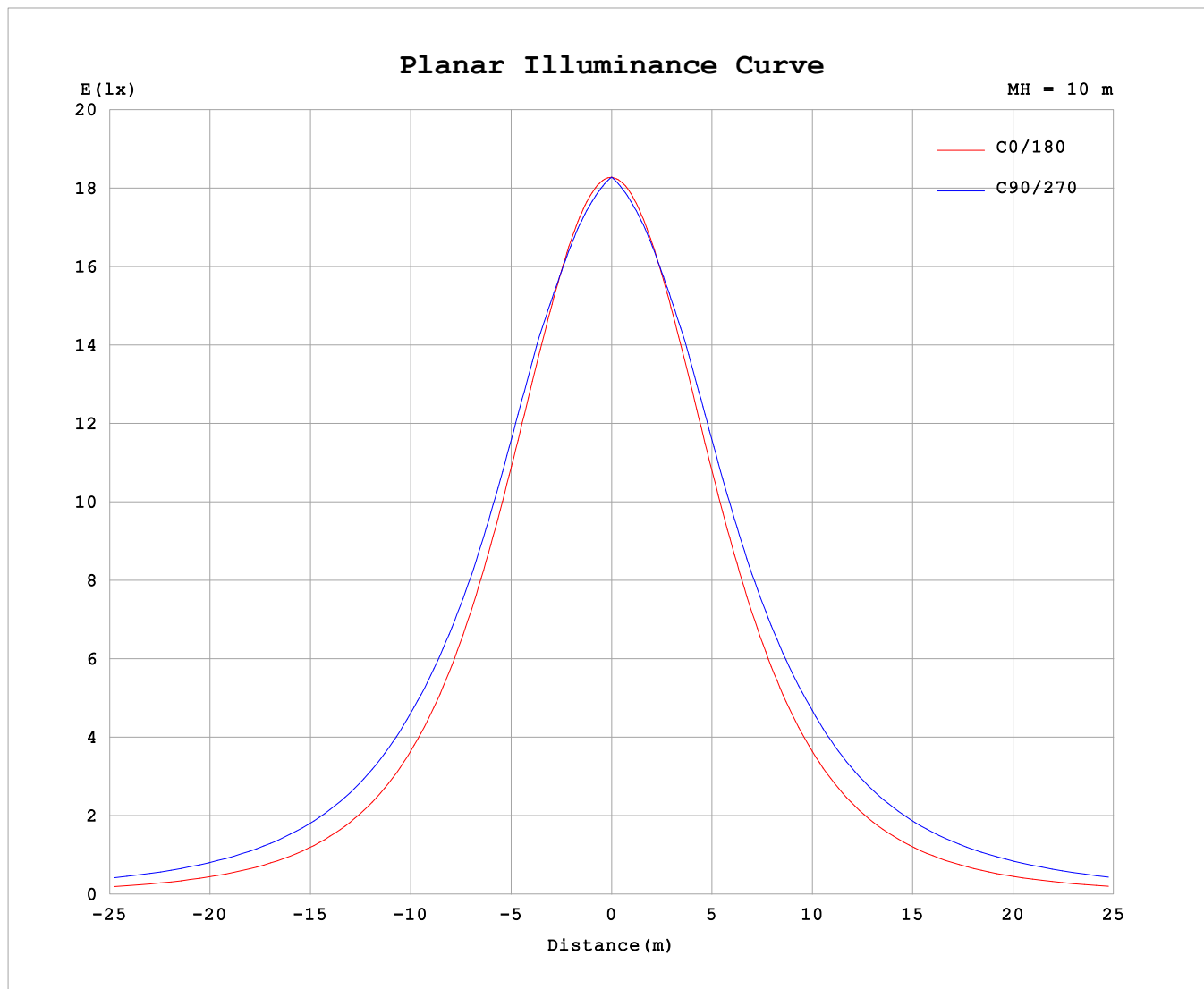
AvgL	cd/m2
L_0~180 (65) av	3080
L_0~180 (75) av	2374
L_0~180 (85) av	1264
L_90~270 (65) av	5911
L_90~270 (75) av	6809
L_90~270 (85) av	11182
L_45 (65) av	4600
L_45 (75) av	5164
L_45 (85) av	7608

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:

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:

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:120.63V I:0.2683A P:32.288W PF:0.9977 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 5391.17x1 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=1.0738]
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=1.0738]
Remarks: