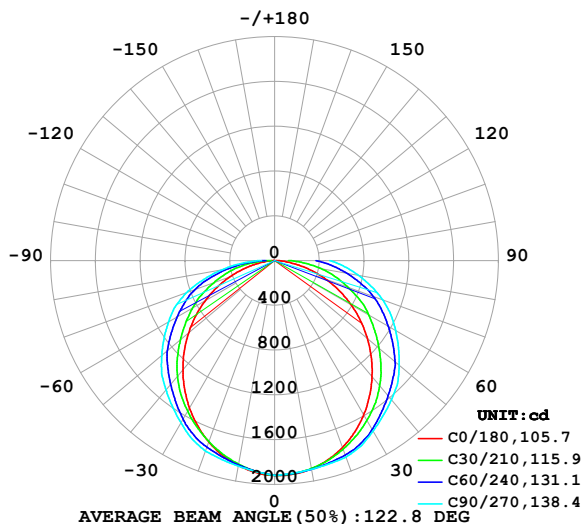


LUMINAIRE PHOTOMETRIC TEST REPORT

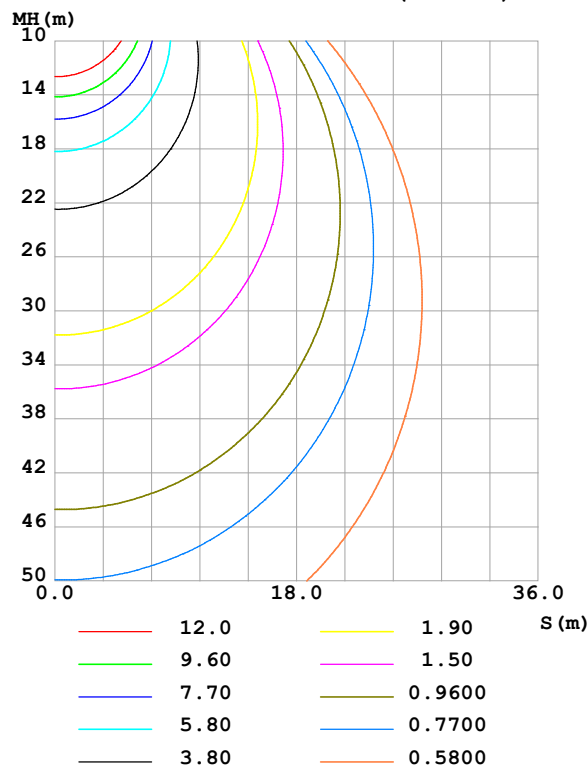
Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.29 lm/W			
MODEL		I _{max} (cd)	1921	S/MH(C0/180)	1.19
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6277.5	η UP,DN(C0-180)	0.0,52.4
NOMINAL FLUX(lm)	6277.48	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.50

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:2025-11-01

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=1.0984]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1890	1889	1893	1869	1861	1849	1864	1869	0- 10	180.5	180.5	2.88,2.88
20	1776	1819	1868	1782	1723	1743	1810	1782	10- 20	517.9	698.5	11.1,11.1
30	1592	1707	1759	1657	1521	1603	1674	1655	20- 30	794.0	1492	23.8,23.8
40	1355	1521	1623	1465	1275	1396	1510	1455	30- 40	970.2	2463	39.2,39.2
50	1083	1317	1453	1262	1002	1176	1316	1234	40- 50	1039	3502	55.8,55.8
60	789.2	1084	1249	1033	714.8	932.3	1094	987.3	50- 60	995.3	4497	71.6,71.6
70	485.7	830.9	1029	787.2	422.7	674.9	837.3	721.7	60- 70	851.9	5349	85.2,85.2
80	193.5	545.8	761.0	501.6	149.9	373.4	477.3	405.7	70- 80	615.1	5964	95,95
90	10.49	251.0	493.3	199.2	11.78	53.35	117.4	68.20	80- 90	313.4	6277	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): 2980.3 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(130deg): 4946.3 lm

%lum = 78.8%

%lamp = 78.8%

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz

UTHDi:0.00% ITHDi:0.00% KDisp:0

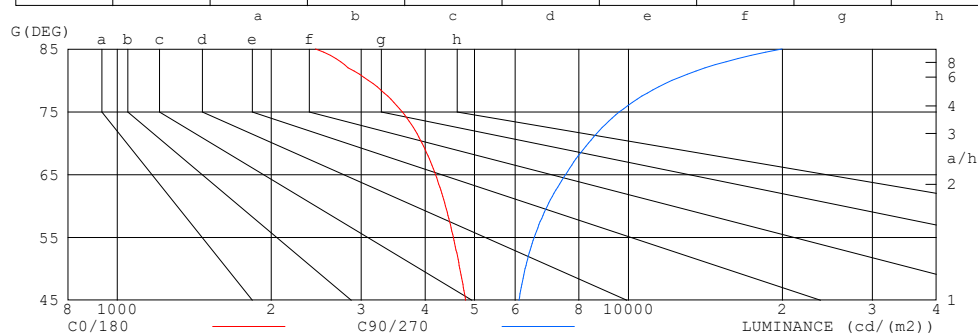
Lamp Flux:6277.48x1 lm

NAME: ETLSN-V-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	2442	19988
80	3096	12173
75	3607	9604
70	3945	8355
65	4193	7537
60	4384	6937
55	4541	6542
50	4679	6279
45	4801	6108

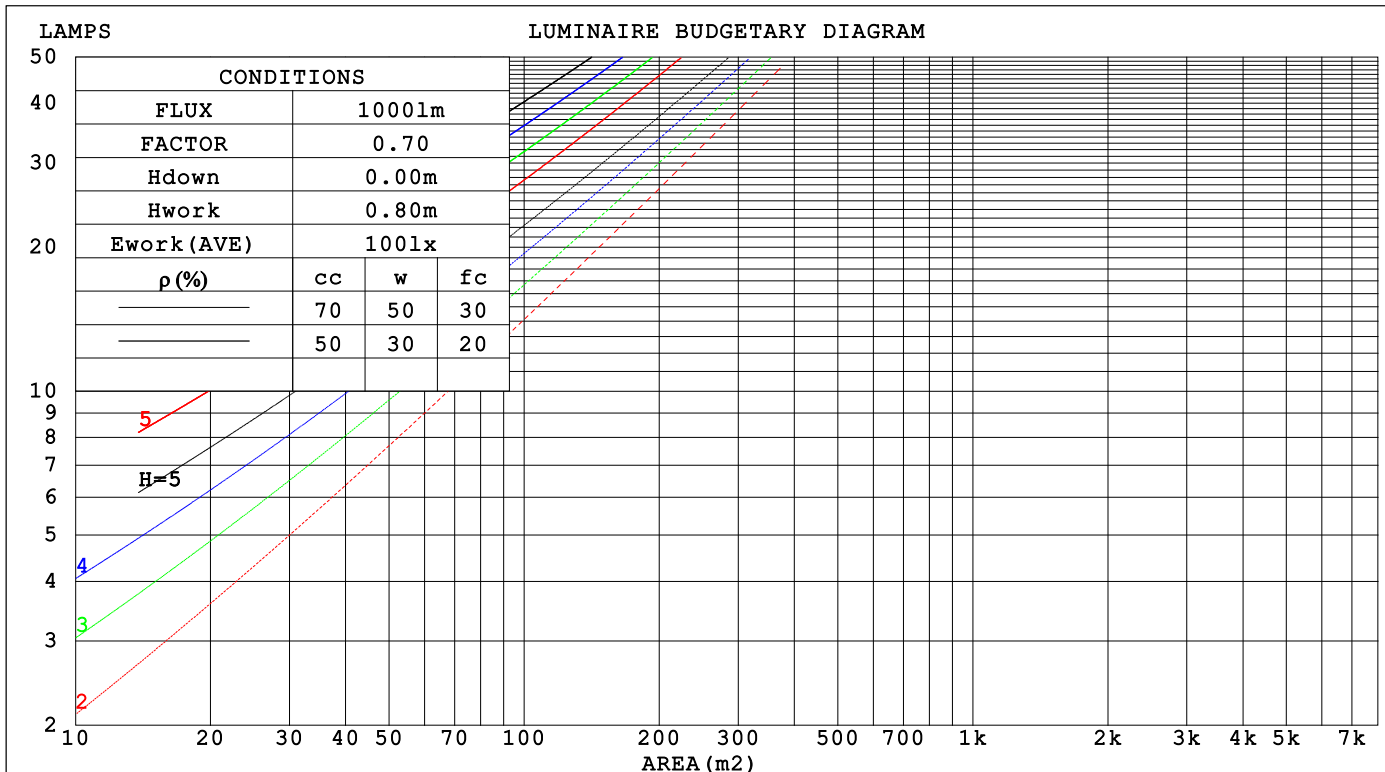
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm		
NAME: ETLN-V-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	1.00														
1.0	1.01	.96	.92	.99	.94	.90	.95	.91	.87	.91	.87	.85	.87	.84	.82	.80														
2.0	.87	.79	.73	.85	.78	.72	.81	.76	.70	.78	.73	.69	.75	.71	.67	.65														
3.0	.76	.67	.60	.74	.66	.59	.71	.64	.58	.68	.62	.57	.66	.60	.56	.54														
4.0	.67	.57	.50	.65	.57	.50	.63	.55	.49	.60	.54	.48	.58	.52	.48	.45														
5.0	.59	.50	.43	.58	.49	.43	.56	.48	.42	.54	.47	.42	.52	.46	.41	.39														
6.0	.53	.44	.37	.52	.43	.37	.50	.42	.37	.49	.42	.36	.47	.41	.36	.34														
7.0	.48	.39	.33	.47	.39	.32	.46	.38	.32	.44	.37	.32	.43	.37	.32	.30														
8.0	.44	.35	.29	.43	.35	.29	.42	.34	.29	.41	.34	.28	.39	.33	.28	.26														
9.0	.40	.32	.26	.40	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.25	.24														
10.0	.37	.29	.23	.37	.29	.23	.36	.28	.23	.35	.28	.23	.34	.28	.23	.21														



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

WEC AND CCEC

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm											
NAME: ETLSN-V-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	.360	.205	.065	.353	.201	.064	.340	.195	.062	.327	.189	.061	.316	.183	.059	
2.0	.324	.178	.054	.318	.175	.054	.306	.170	.053	.295	.165	.052	.284	.161	.051	
3.0	.293	.156	.047	.287	.154	.046	.277	.150	.046	.267	.146	.045	.258	.143	.044	
4.0	.266	.138	.041	.261	.137	.040	.252	.133	.040	.243	.130	.039	.235	.128	.039	
5.0	.243	.124	.036	.239	.123	.036	.231	.120	.035	.223	.118	.035	.215	.115	.035	
6.0	.224	.112	.032	.220	.111	.032	.212	.109	.032	.206	.107	.031	.199	.105	.031	
7.0	.207	.102	.029	.204	.101	.029	.197	.100	.029	.191	.098	.028	.185	.096	.028	
8.0	.192	.094	.026	.189	.093	.026	.183	.092	.026	.178	.090	.026	.173	.089	.026	
9.0	.180	.087	.024	.177	.086	.024	.172	.085	.024	.167	.083	.024	.162	.082	.024	
10.0	.168	.081	.022	.166	.080	.022	.161	.079	.022	.157	.078	.022	.152	.077	.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	.130	.157	.134	.112	.108	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.177	.132	.094	.151	.113	.081	.104	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.169	.114	.071	.145	.099	.062	.099	.069	.043	.057	.040	.025	.018	.013	.008	
4.0	.161	.101	.056	.138	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.153	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.146	.083	.038	.125	.072	.033	.086	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.139	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.132	.070	.028	.113	.061	.024	.078	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.057	.021	.075	.040	.015	.044	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.014	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm										
NAME: ETLSN-V-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	9.9	11.5	10.2	11.7	12.0	11.8	13.4	12.1	13.7	13.9
3H	11.4	12.9	11.7	13.1	13.4	14.3	15.8	14.6	16.0	16.3
4H	12.0	13.4	12.3	13.7	13.9	15.6	17.0	15.9	17.3	17.5
6H	12.4	13.7	12.7	14.0	14.3	16.9	18.3	17.2	18.5	18.8
8H	12.5	13.8	12.8	14.1	14.4	17.6	18.9	18.0	19.2	19.5
12H	12.5	13.8	12.9	14.1	14.4	18.4	19.6	18.7	19.9	20.3
4H 2H	11.1	12.5	11.4	12.8	13.0	12.5	13.9	12.8	14.1	14.4
3H	12.8	14.1	13.2	14.4	14.7	15.2	16.4	15.5	16.7	17.0
4H	13.6	14.7	14.0	15.1	15.4	16.6	17.8	17.0	18.1	18.5
6H	14.1	15.2	14.5	15.5	15.9	18.2	19.2	18.6	19.6	19.9
8H	14.3	15.3	14.7	15.6	16.0	19.0	20.0	19.4	20.3	20.7
12H	14.4	15.3	14.8	15.7	16.1	19.9	20.8	20.3	21.2	21.6
8H 4H	14.5	15.5	14.9	15.8	16.2	17.0	17.9	17.4	18.3	18.7
6H	15.4	16.2	15.8	16.6	17.0	18.8	19.6	19.2	20.0	20.4
8H	15.7	16.4	16.2	16.9	17.3	19.8	20.5	20.3	21.0	21.4
12H	15.9	16.6	16.4	17.0	17.5	21.0	21.6	21.4	22.0	22.5
12H 4H	14.7	15.6	15.2	16.0	16.4	17.0	17.9	17.4	18.3	18.7
6H	15.8	16.5	16.2	17.0	17.4	18.9	19.6	19.3	20.0	20.5
8H	16.3	16.9	16.7	17.3	17.8	20.0	20.6	20.5	21.1	21.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 6277 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.4)
Area: 0.36 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

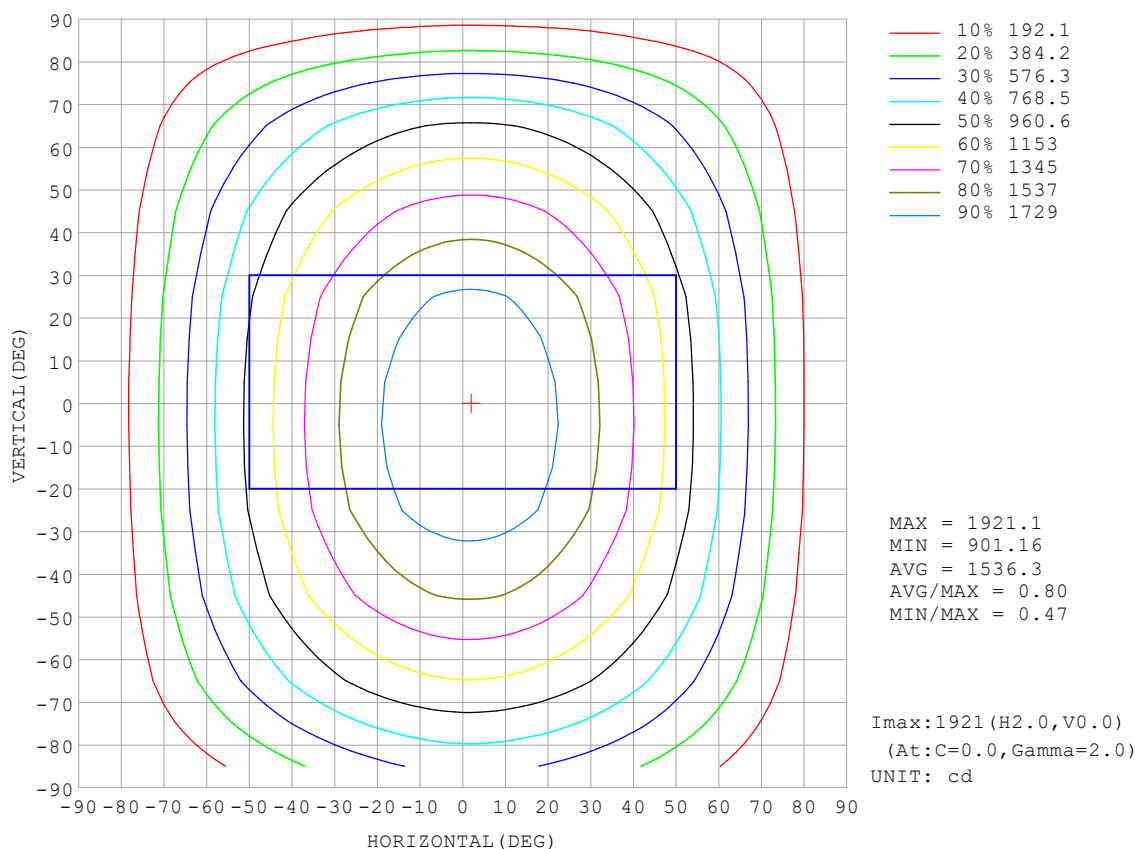
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	35	54	42	35	53	42	35	28
0.80	64	52	44	63	52	44	61	51	44	36
1.00	73	61	53	71	60	53	69	62	52	44
1.25	80	68	60	78	67	60	75	66	59	51
1.50	85	74	66	83	73	66	80	71	65	56
2.00	92	82	75	90	81	74	86	79	73	64
2.50	96	87	80	94	86	80	90	83	78	69
3.00	100	92	86	97	90	84	93	87	82	73
4.00	104	97	92	102	96	91	97	92	88	79
5.00	107	101	96	104	99	95	99	95	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:2025-11-01

$V(\beta)$ 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=1.0984]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		



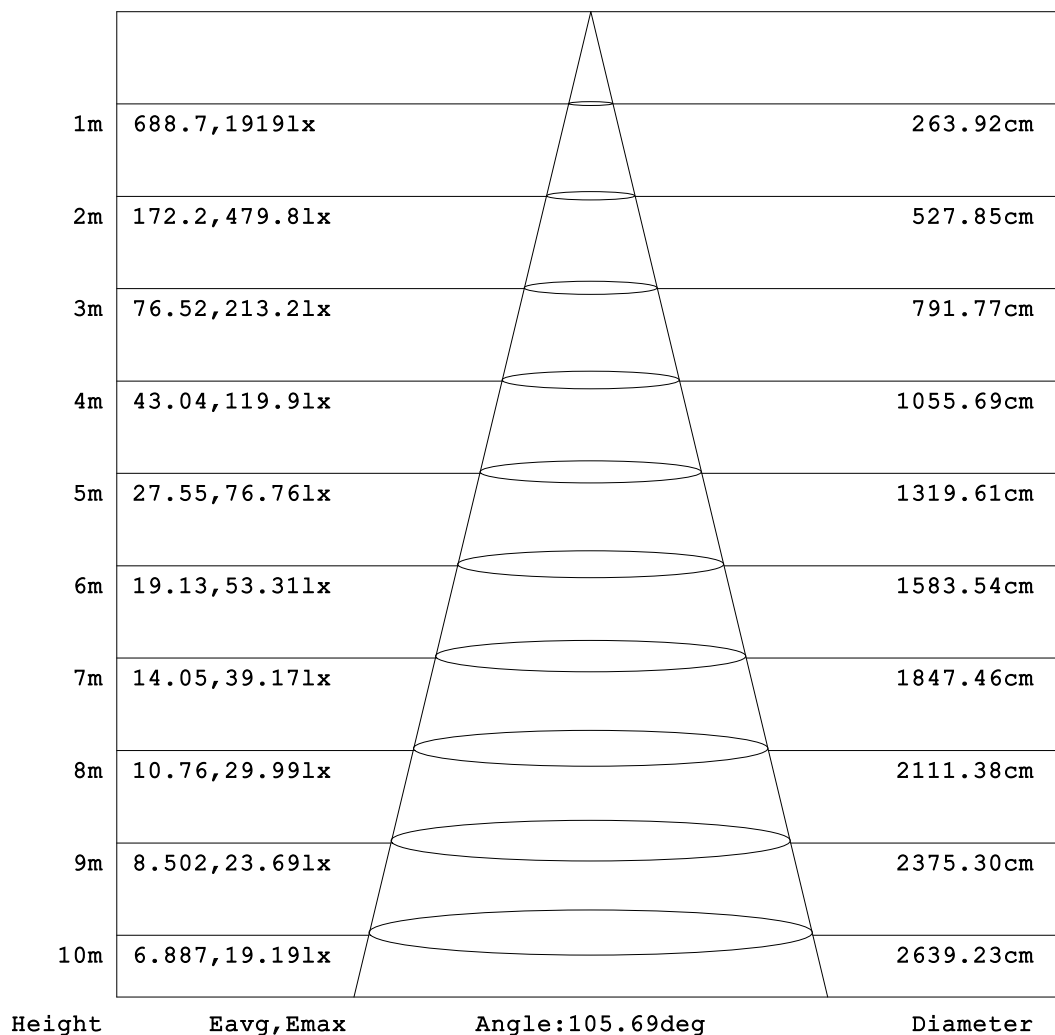
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

AAI Figure

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

Flux out:3810 lm



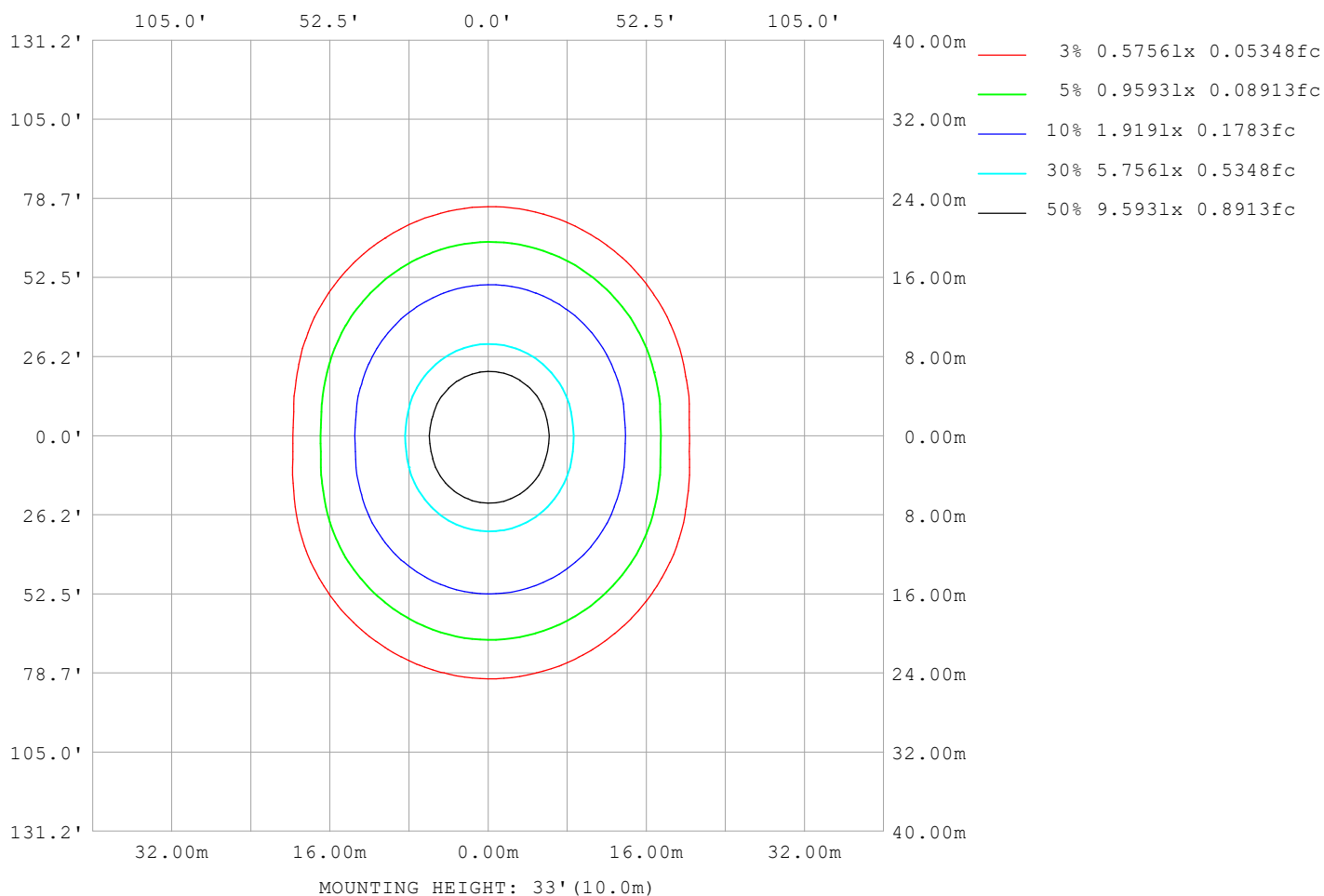
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

ISOLUX DIAGRAM

Test: U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 6277.48x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks:

LED Avg.L Report

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		

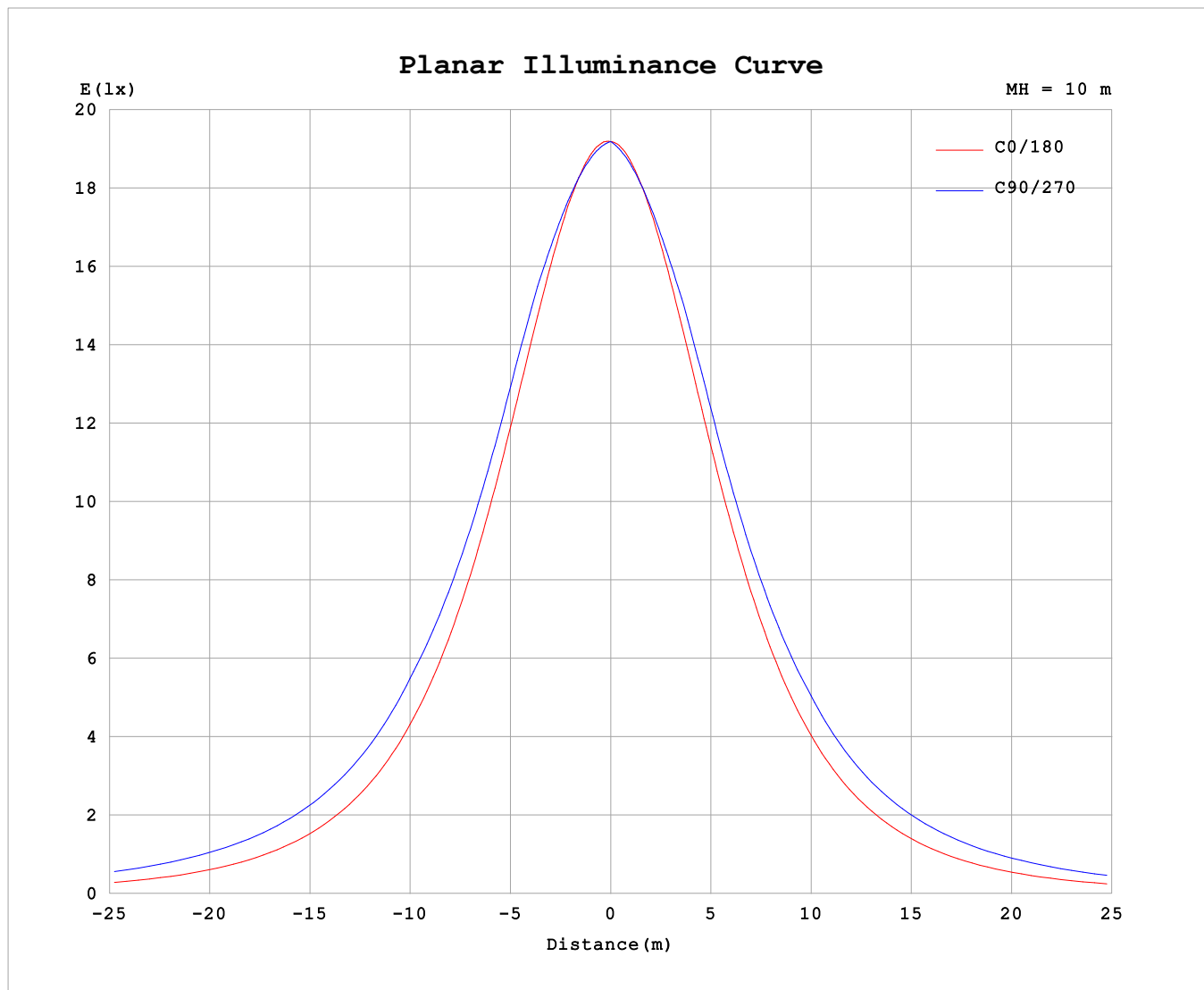
AvgL	cd/m2
L_0~180 (65) av	3966
L_0~180 (75) av	3312
L_0~180 (85) av	1985
L_90~270 (65) av	6998
L_90~270 (75) av	8329
L_90~270 (85) av	14733
L_45 (65) av	5778
L_45 (75) av	6628
L_45 (85) av	9493

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:2025-11-01

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=1.0984]
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:2025-11-01

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=1.0984]
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=1.0984]
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=1.0984]
Remarks:

Test: U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 6277.48x1 lm		
NAME: ETLN-V-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=1.0984]
Remarks:

Test:U:120.57V I:0.3316A P:39.909W PF:0.9981 Freq:49.99Hz
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6277.48x1 lm

NAME: ETLN-V-4FT

MFR. : EVERTIE

Table--4

UNIT: cd

H(θ) Range:-90 - 90DEG
H(θ) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-01

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=1.0984]
Remarks: