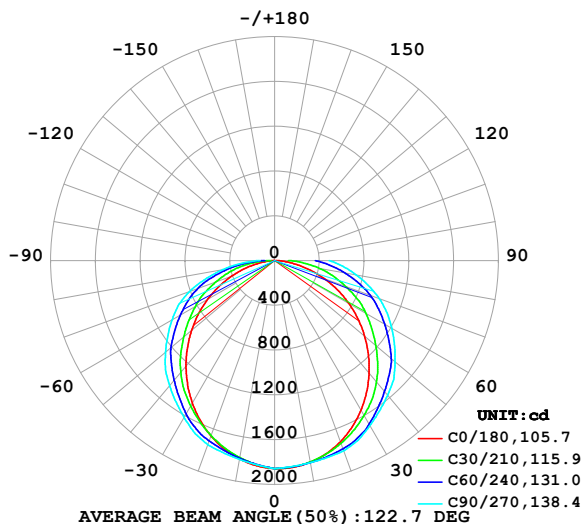


LUMINAIRE PHOTOMETRIC TEST REPORT

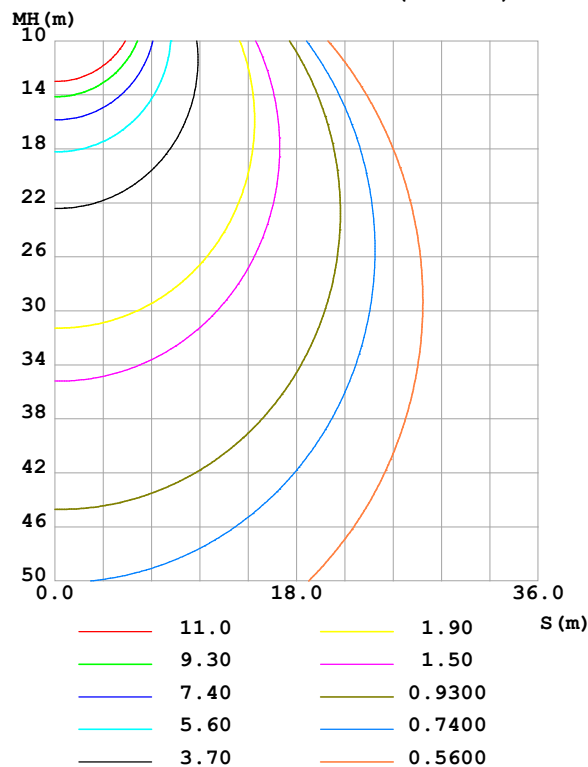
Test:U:120.57V I:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.57 lm/W			
MODEL		Imax (cd)	1859	S/MH(C0/180)	1.18
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6079.2	η UP,DN(C0-180)	0.0,52.4
NOMINAL FLUX(lm)	6079.18	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 °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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1830	1829	1833	1808	1800	1788	1804	1809	0- 10	174.7	174.7	2.87,2.87
20	1722	1763	1808	1724	1666	1686	1750	1725	10- 20	501.2	675.9	11.1,11.1
30	1543	1655	1703	1602	1470	1549	1618	1602	20- 30	768.3	1444	23.8,23.8
40	1314	1474	1570	1416	1232	1348	1459	1408	30- 40	938.7	2383	39.2,39.2
50	1049	1277	1406	1219	968.0	1135	1272	1195	40- 50	1005	3388	55.7,55.7
60	765.9	1050	1208	997.8	690.4	900.2	1057	955.4	50- 60	962.7	4351	71.6,71.6
70	471.6	804.2	996.8	760.2	408.2	651.4	811.1	698.2	60- 70	824.0	5175	85.1,85.1
80	187.9	530.1	742.3	487.0	144.5	362.7	470.0	395.5	70- 80	596.3	5771	94.9,94.9
90	10.00	247.1	487.9	200.3	11.42	57.60	128.9	73.18	80- 90	308.0	6079	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): 2883.7 lm

%lum = 47.4%

%lamp = 47.4%

Conical surface Flux(130deg): 4785.4 lm

%lum = 78.7%

%lamp = 78.7%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.57V I:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz

UTHDi:0.00% ITHDi:0.00% KDisp:0

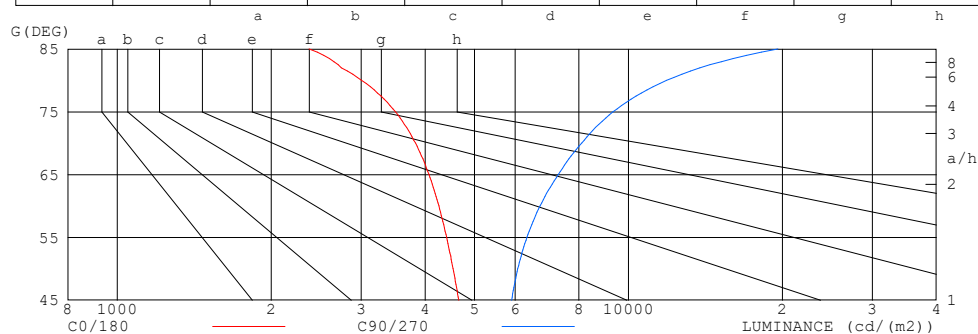
Lamp Flux:6079.18x1 lm

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	2370	19604
80	3005	11875
75	3500	9333
70	3830	8096
65	4070	7294
60	4255	6713
55	4406	6330
50	4535	6075
45	4656	5910

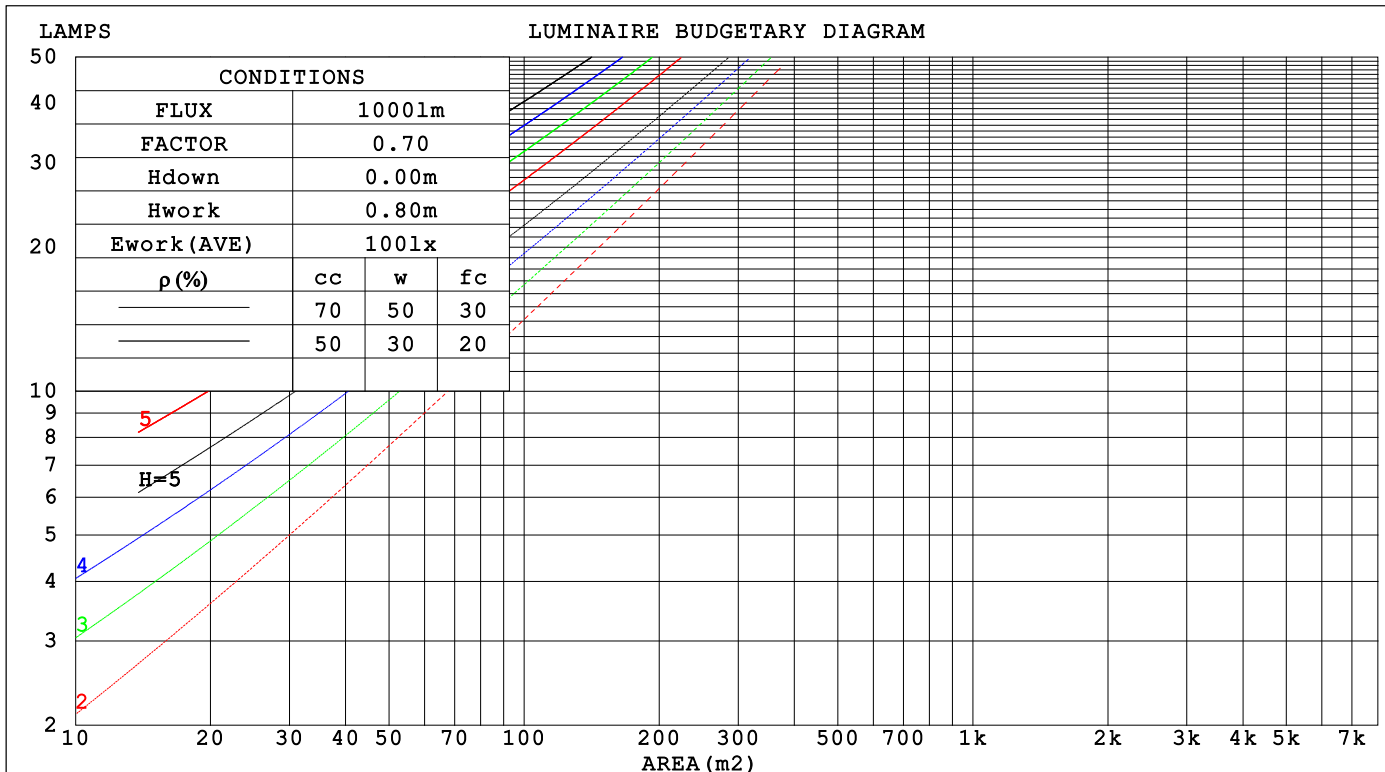
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-11-01

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:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 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															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	1.01	.96	.92	.99	.94	.90	.95	.91	.87	.91	.87	.85	.87	.84	.82	.80														
2.0	.87	.79	.73	.85	.78	.72	.81	.75	.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	.42	.56	.48	.42	.54	.47	.41	.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	.30	.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:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 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	.361	.205	.065	.354	.202	.064	.340	.195	.062	.328	.189	.061	.316	.183	.059		
2.0	.324	.178	.055	.318	.175	.054	.306	.170	.053	.295	.165	.052	.285	.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	.134	.040	.243	.131	.039	.235	.128	.039		
5.0	.243	.124	.036	.239	.123	.036	.231	.120	.035	.223	.118	.035	.216	.115	.035		
6.0	.224	.112	.032	.220	.111	.032	.213	.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:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 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	11.8	12.0	11.8	13.4	12.1	13.7	13.9
3H	11.4	12.9	11.7	13.2	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	17.3	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	19.7	18.8	20.0	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	20.0
8H	14.3	15.3	14.7	15.7	16.0	19.0	20.0	19.4	20.4	20.8
12H	14.4	15.3	14.8	15.7	16.1	19.9	20.8	20.4	21.2	21.6
8H 4H	14.5	15.5	14.9	15.8	16.2	17.0	18.0	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	20.5
8H	15.7	16.4	16.2	16.9	17.3	19.8	20.6	20.3	21.0	21.4
12H	15.9	16.6	16.4	17.0	17.5	21.0	21.6	21.5	22.1	22.6
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	16.3	17.0	17.4	18.9	19.6	19.4	20.1	20.5
8H	16.3	16.9	16.7	17.4	17.8	20.0	20.7	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, 6079 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.3)
Area: 0.36 m2

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

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:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

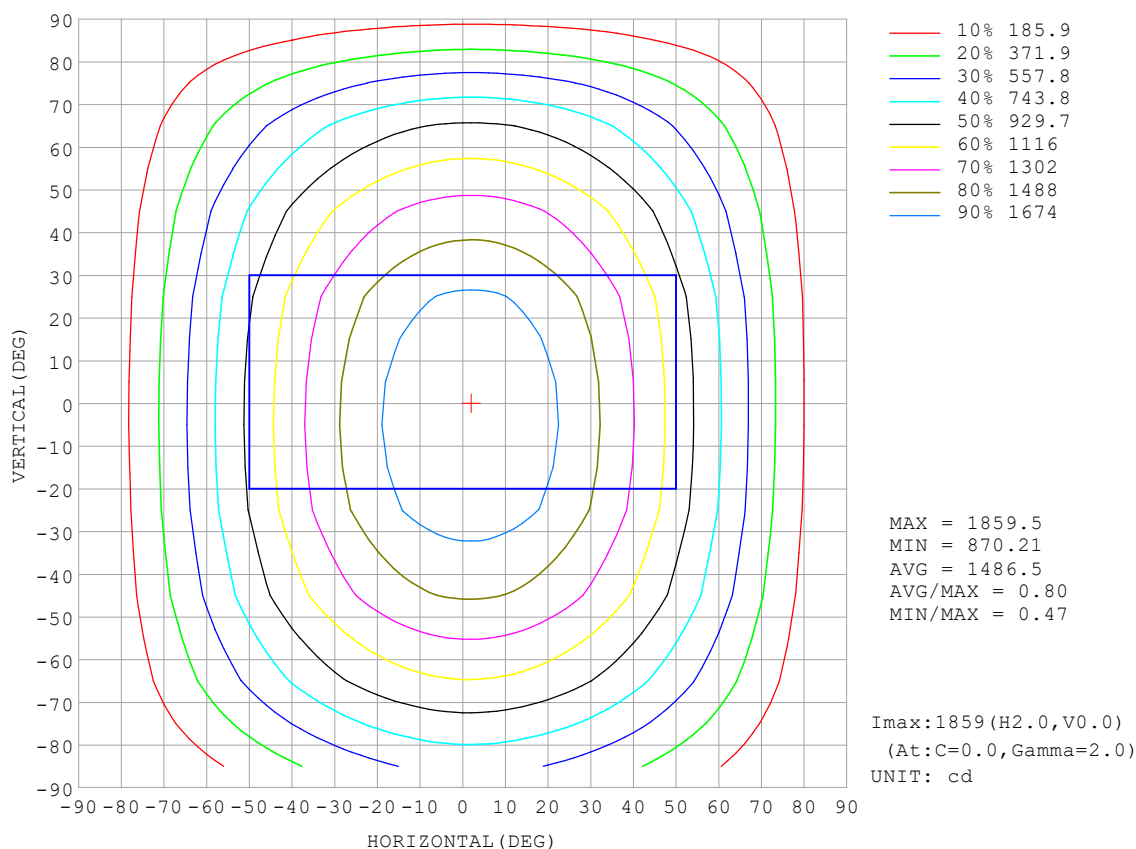
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	35	54	42	35	53	42	35	28
0.80	64	52	44	63	52	44	61	51	44	36
1.00	73	61	53	71	60	52	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	85	97	90	84	93	87	82	73
4.00	104	97	92	101	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

$V(B)$ 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:

ISOCANDELA DIAGRAM

Test:U:120.57V I:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		



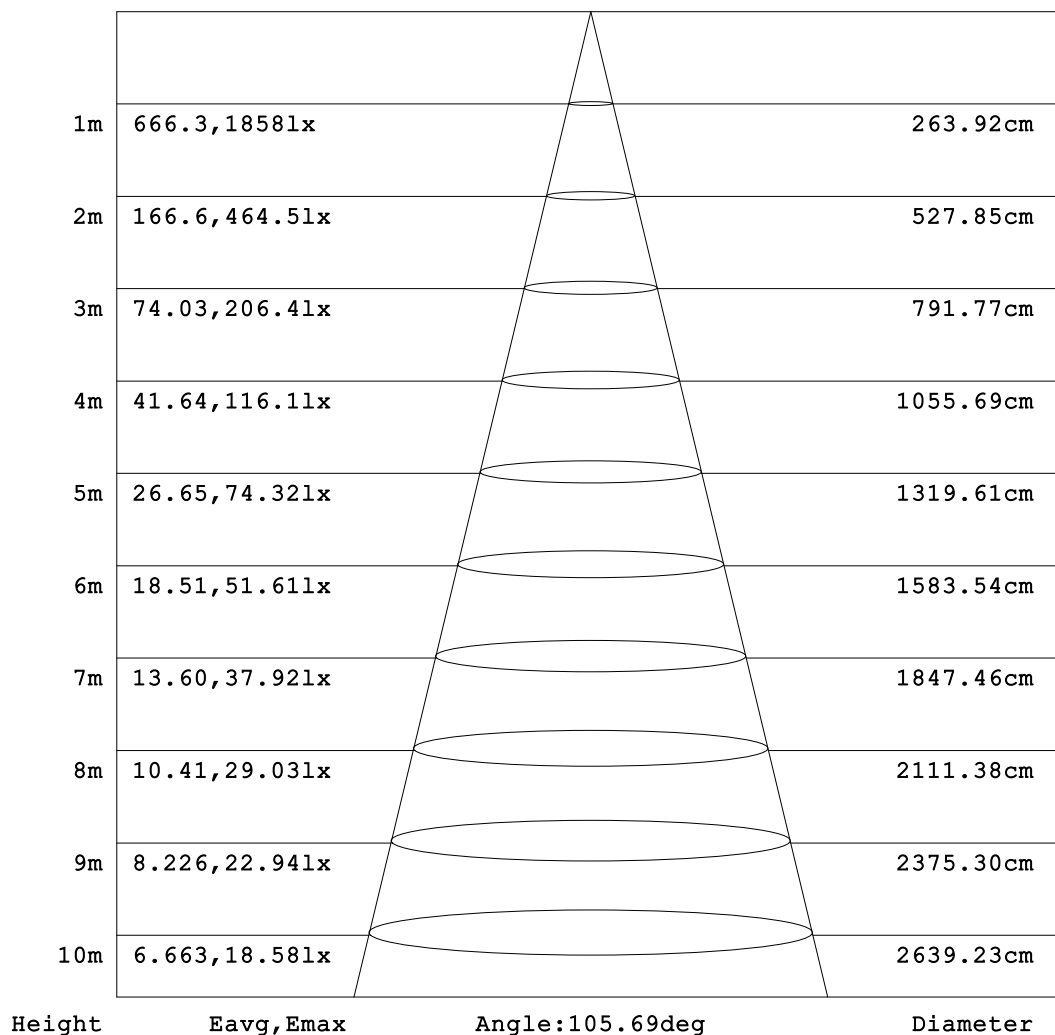
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-01

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:

AAI Figure

Test:U:120.57V I:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

Flux out:3686 lm



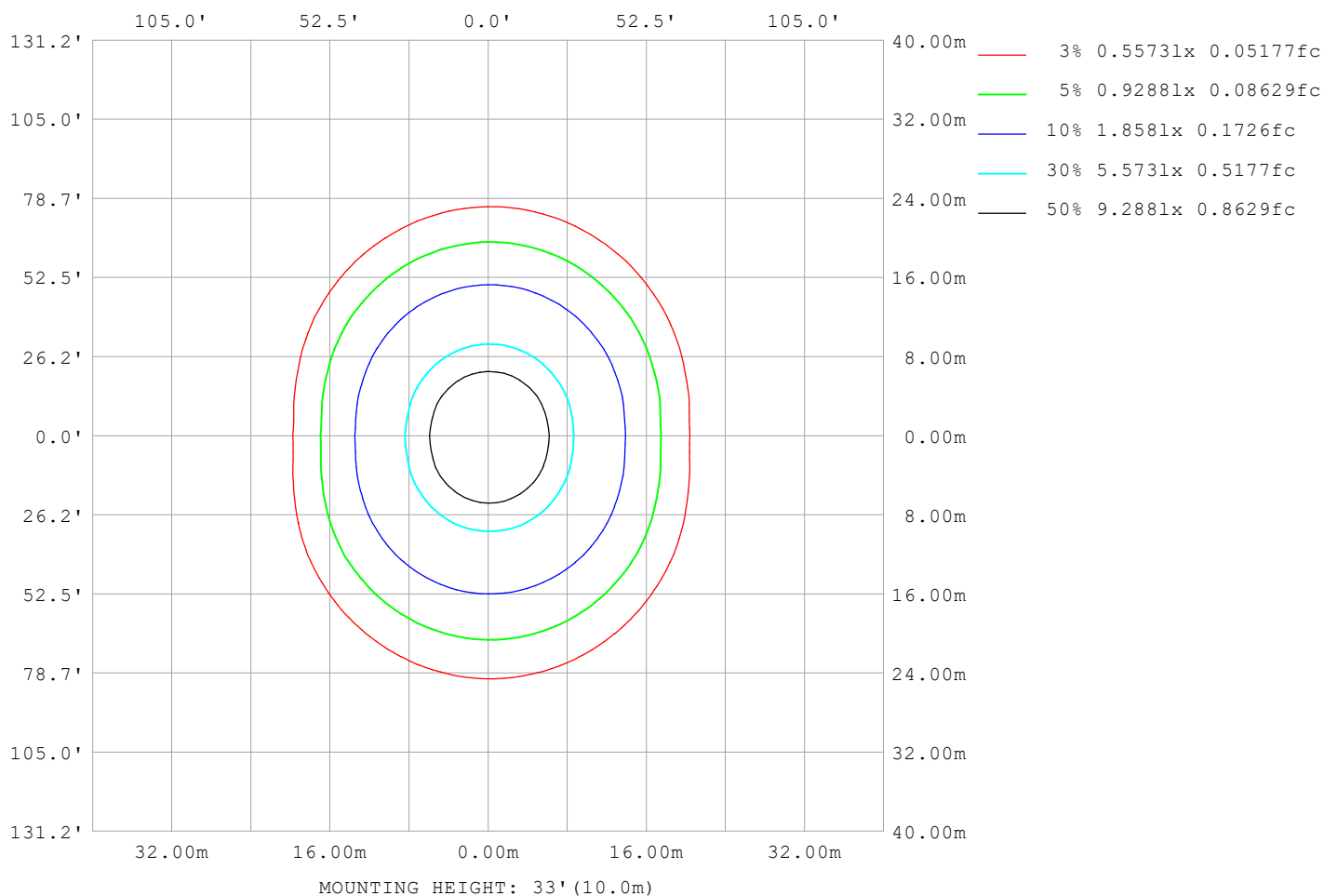
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 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:0.3377A P:40.644W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6079.18x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		

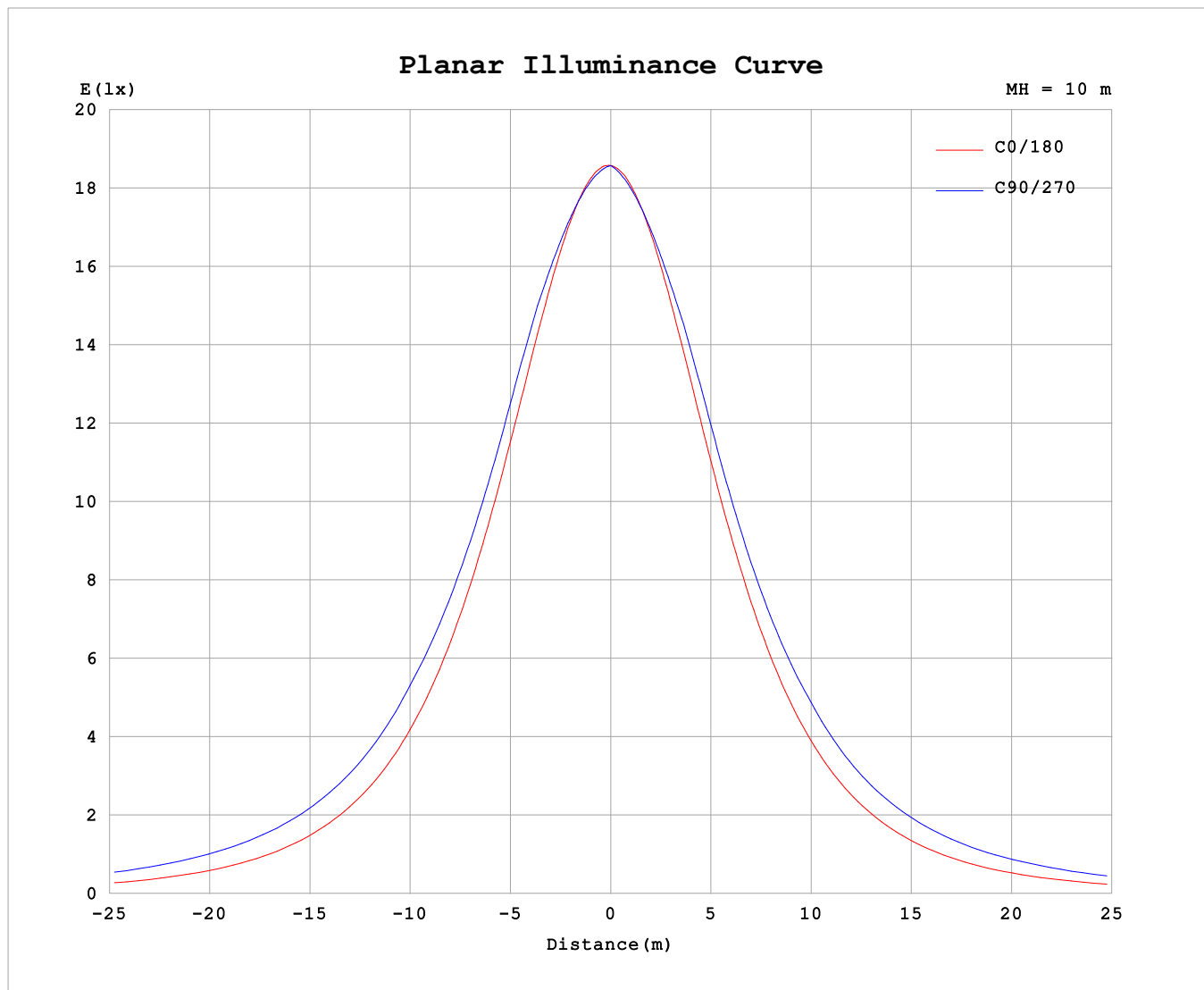
AvgL	cd/m2
L_0~180 (65) av	3840
L_0~180 (75) av	3206
L_0~180 (85) av	1922
L_90~270 (65) av	6769
L_90~270 (75) av	8104
L_90~270 (85) av	14574
L_45 (65) av	5587
L_45 (75) av	6413
L_45 (85) av	9315

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:

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: