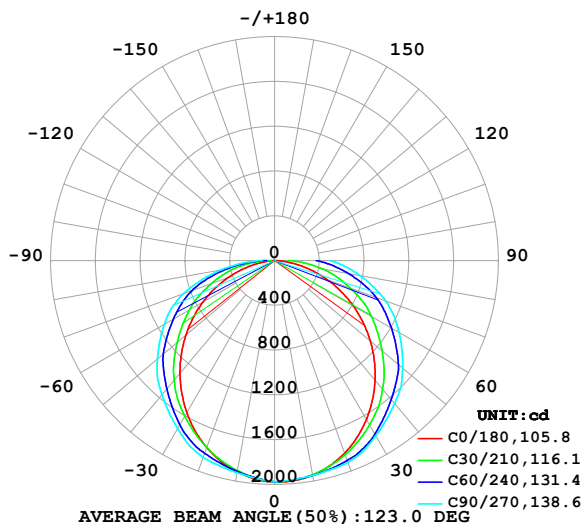


LUMINAIRE PHOTOMETRIC TEST REPORT

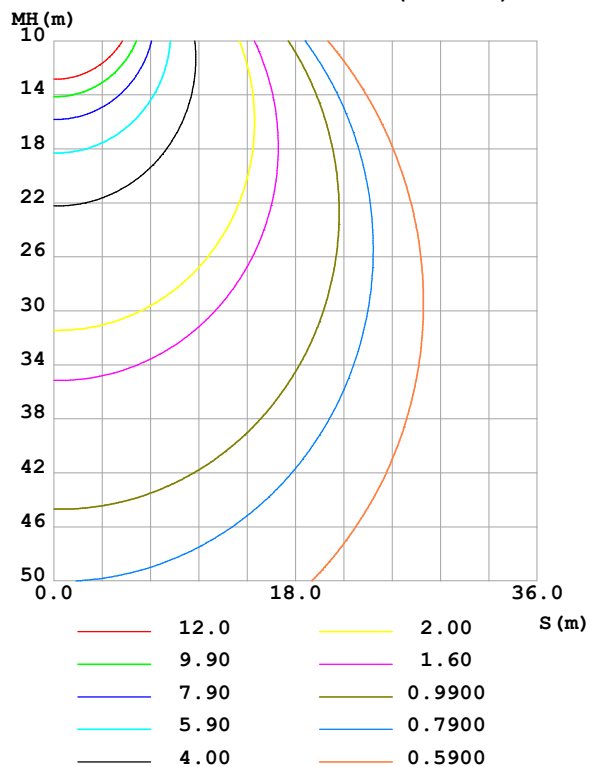
Test:U:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.64 lm/W			
MODEL		I _{max} (cd)	1978	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)	6473.3	η UP,DN(C0-180)	0.0,52.2
NOMINAL FLUX(lm)	6473.35	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.8
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	1947	1945	1948	1924	1919	1907	1924	1928	0- 10	186.0	186.0	2.87,2.87
20	1831	1872	1920	1835	1776	1802	1872	1842	10- 20	533.8	719.8	11.1,11.1
30	1641	1756	1808	1705	1568	1659	1733	1712	20- 30	818.7	1539	23.8,23.8
40	1396	1563	1667	1508	1316	1446	1565	1505	30- 40	1001	2539	39.2,39.2
50	1116	1355	1493	1300	1034	1219	1367	1279	40- 50	1072	3612	55.8,55.8
60	813.5	1115	1284	1064	738.1	967.8	1137	1024	50- 60	1028	4639	71.7,71.7
70	501.3	854.8	1057	810.3	436.5	701.4	870.2	749.9	60- 70	880.2	5520	85.3,85.3
80	199.8	559.5	776.6	513.3	154.5	386.4	490.1	420.1	70- 80	634.4	6154	95.1,95.1
90	10.99	252.9	496.2	197.6	12.20	50.68	110.0	65.15	80- 90	319.3	6473	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): 3073.5 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(130deg): 5103.7 lm

%lum = 78.8%

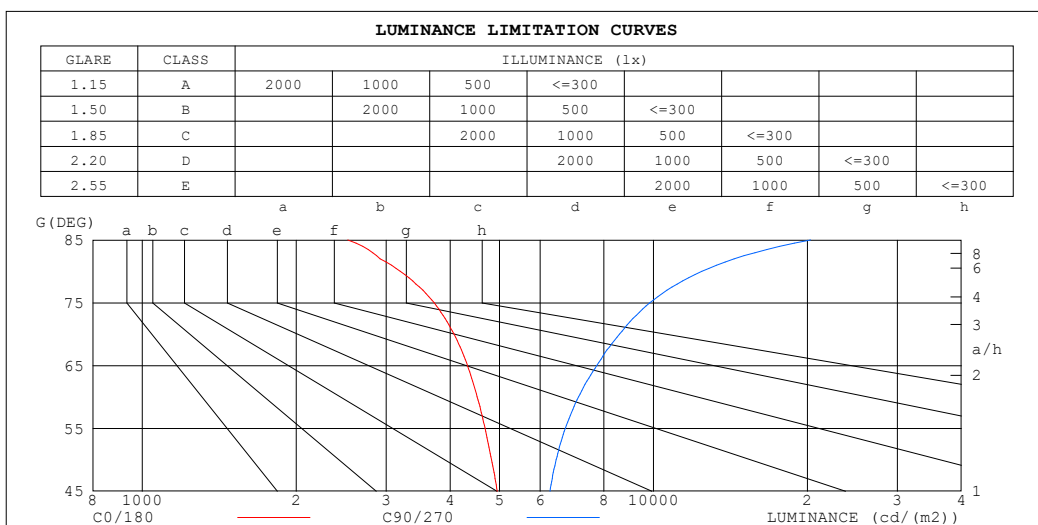
%lamp = 78.8%

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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2524	20283
80	3196	12423
75	3723	9840
70	4071	8585
65	4326	7752
60	4519	7133
55	4681	6724
50	4822	6451
45	4948	6275

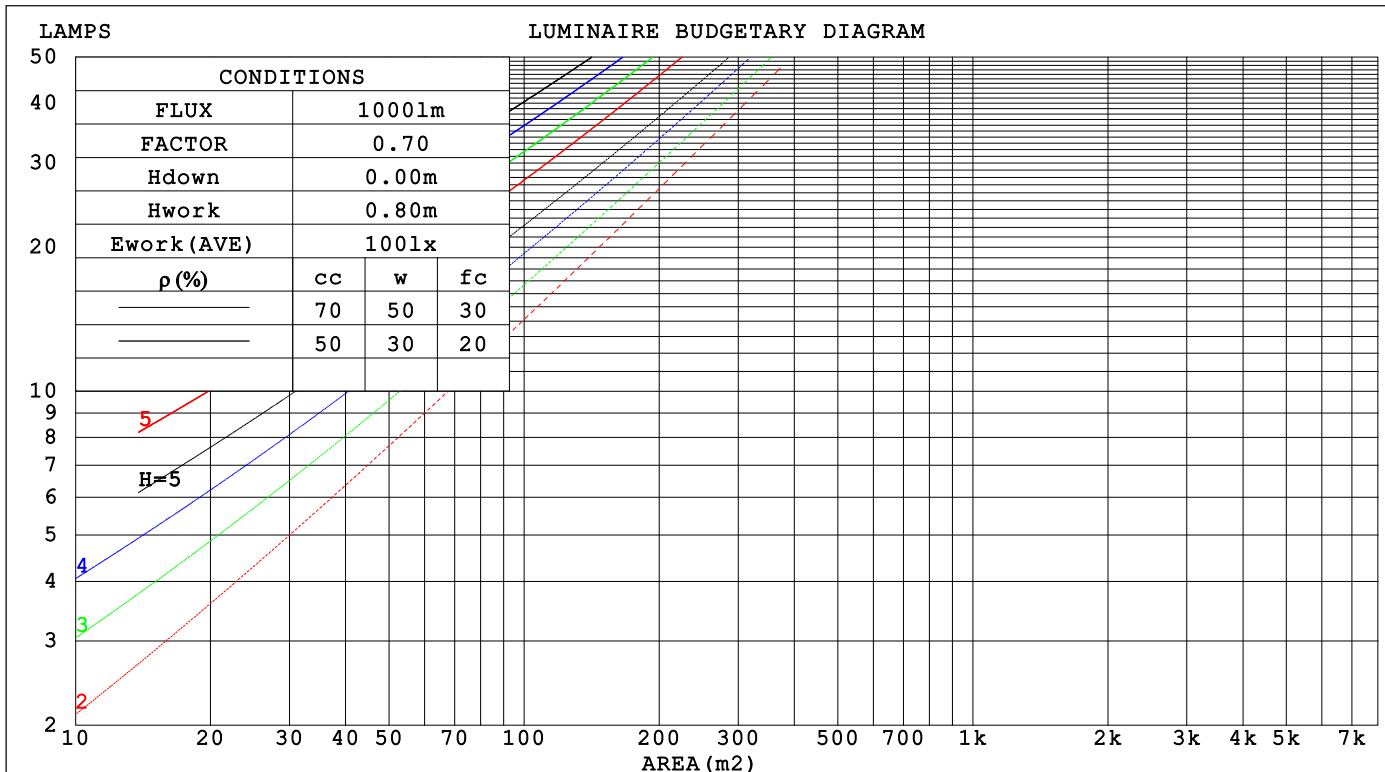
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-11-01

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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 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	.88	.85	.87	.84	.82	.80														
2.0	.87	.79	.73	.85	.78	.72	.82	.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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.360	.205	.065	.353	.201	.064	.339	.194	.062	.327	.188	.060	.315	.183	.059	
2.0	.324	.177	.054	.317	.175	.054	.305	.170	.053	.294	.165	.052	.284	.161	.051	
3.0	.293	.156	.047	.287	.154	.046	.276	.150	.046	.267	.146	.045	.257	.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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 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	11.9	11.8	13.4	12.1	13.6	13.8
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	17.2	17.5
6H	12.4	13.7	12.7	14.0	14.3	16.9	18.2	17.2	18.5	18.8
8H	12.5	13.8	12.8	14.0	14.3	17.6	18.9	17.9	19.2	19.5
12H	12.5	13.8	12.9	14.1	14.4	18.3	19.6	18.7	19.9	20.2
4H 2H	11.1	12.5	11.4	12.7	13.0	12.4	13.9	12.8	14.1	14.4
3H	12.8	14.1	13.2	14.4	14.7	15.1	16.4	15.5	16.7	17.0
4H	13.6	14.7	13.9	15.1	15.4	16.6	17.8	17.0	18.1	18.4
6H	14.1	15.2	14.5	15.5	15.9	18.1	19.2	18.5	19.5	19.9
8H	14.3	15.3	14.7	15.6	16.0	18.9	19.9	19.4	20.3	20.7
12H	14.4	15.3	14.8	15.7	16.1	19.8	20.7	20.3	21.1	21.5
8H 4H	14.5	15.5	14.9	15.8	16.2	16.9	17.9	17.4	18.3	18.7
6H	15.4	16.2	15.8	16.6	17.0	18.7	19.6	19.2	20.0	20.4
8H	15.7	16.4	16.2	16.9	17.3	19.7	20.5	20.2	20.9	21.4
12H	15.9	16.6	16.4	17.0	17.5	20.9	21.5	21.4	22.0	22.5
12H 4H	14.7	15.6	15.1	16.0	16.4	17.0	17.9	17.4	18.3	18.7
6H	15.8	16.5	16.2	16.9	17.4	18.8	19.6	19.3	20.0	20.5
8H	16.2	16.9	16.7	17.3	17.8	19.9	20.6	20.4	21.0	21.5
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, 6473 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.5)
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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

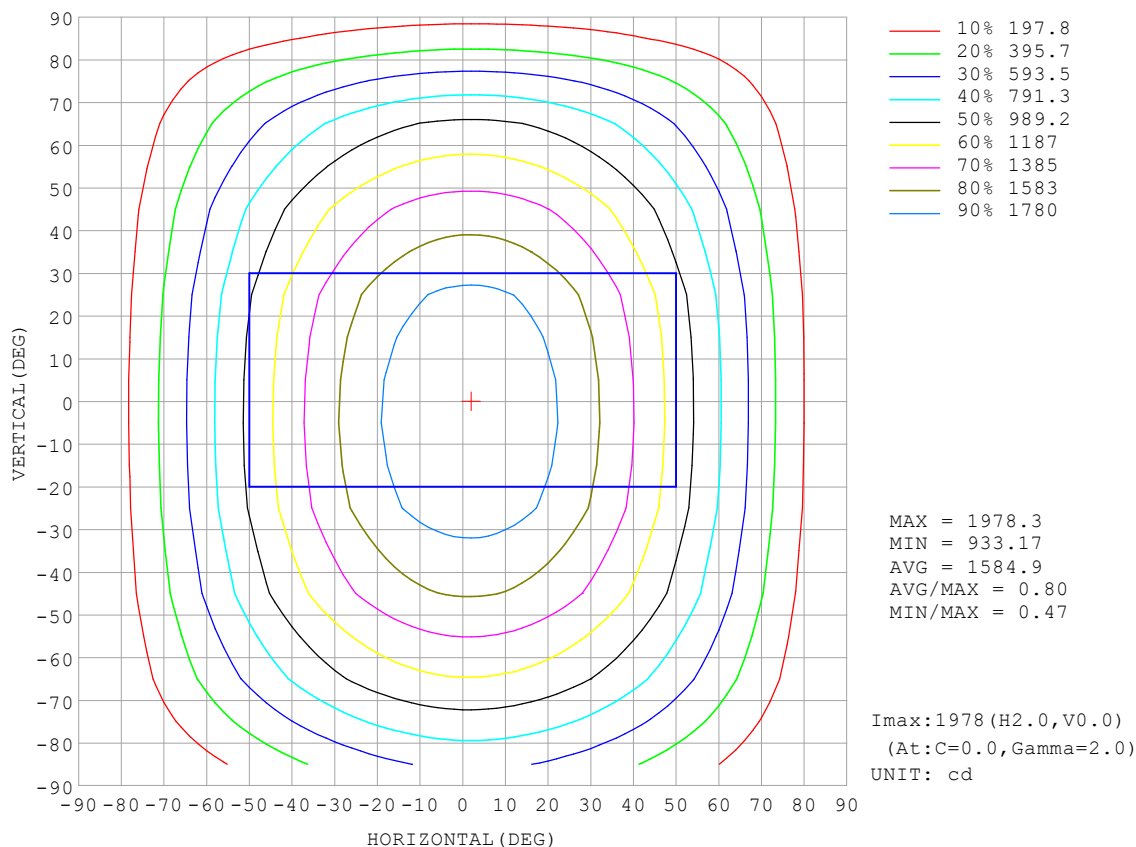
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	35	54	42	35	53	42	35	28
0.80	64	52	44	63	52	44	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	81	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

$V(B)$ 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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		



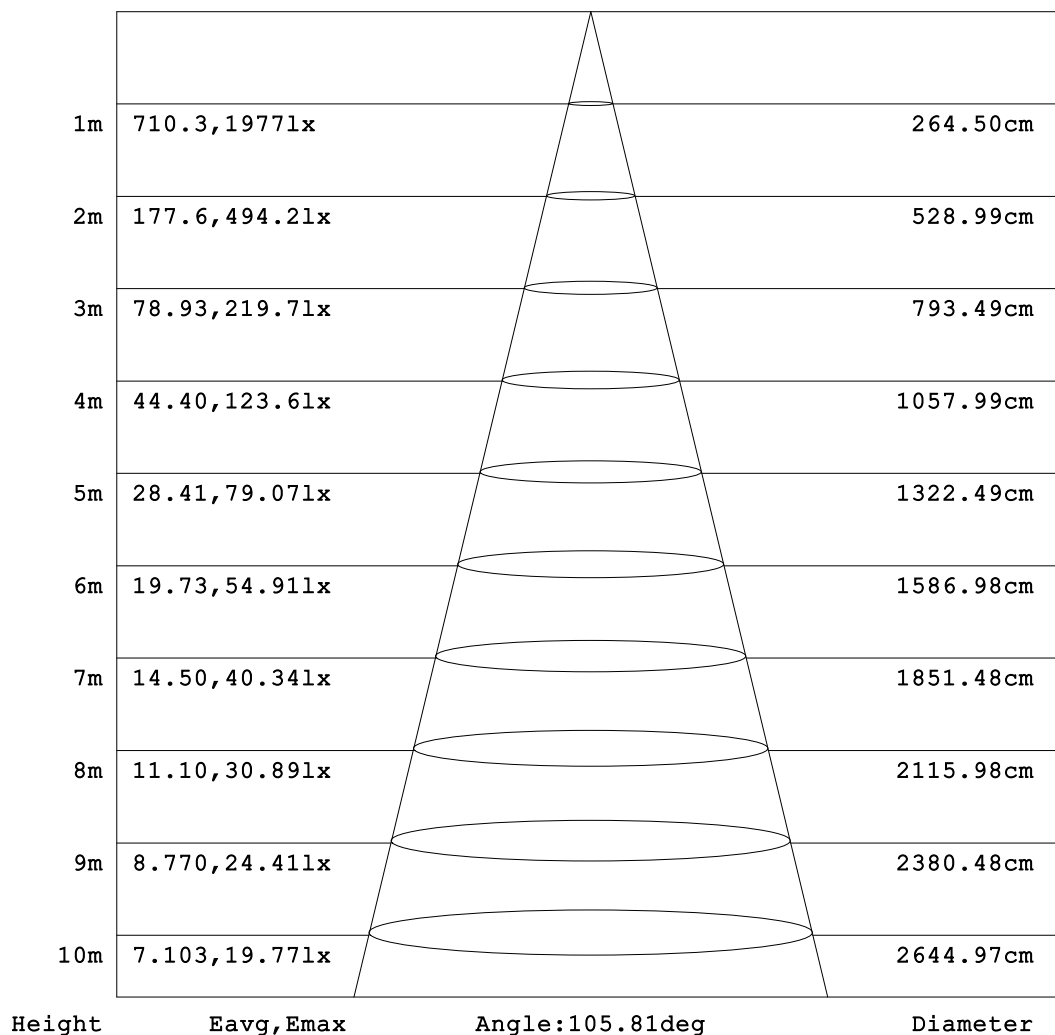
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-01

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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

Flux out:3930 lm



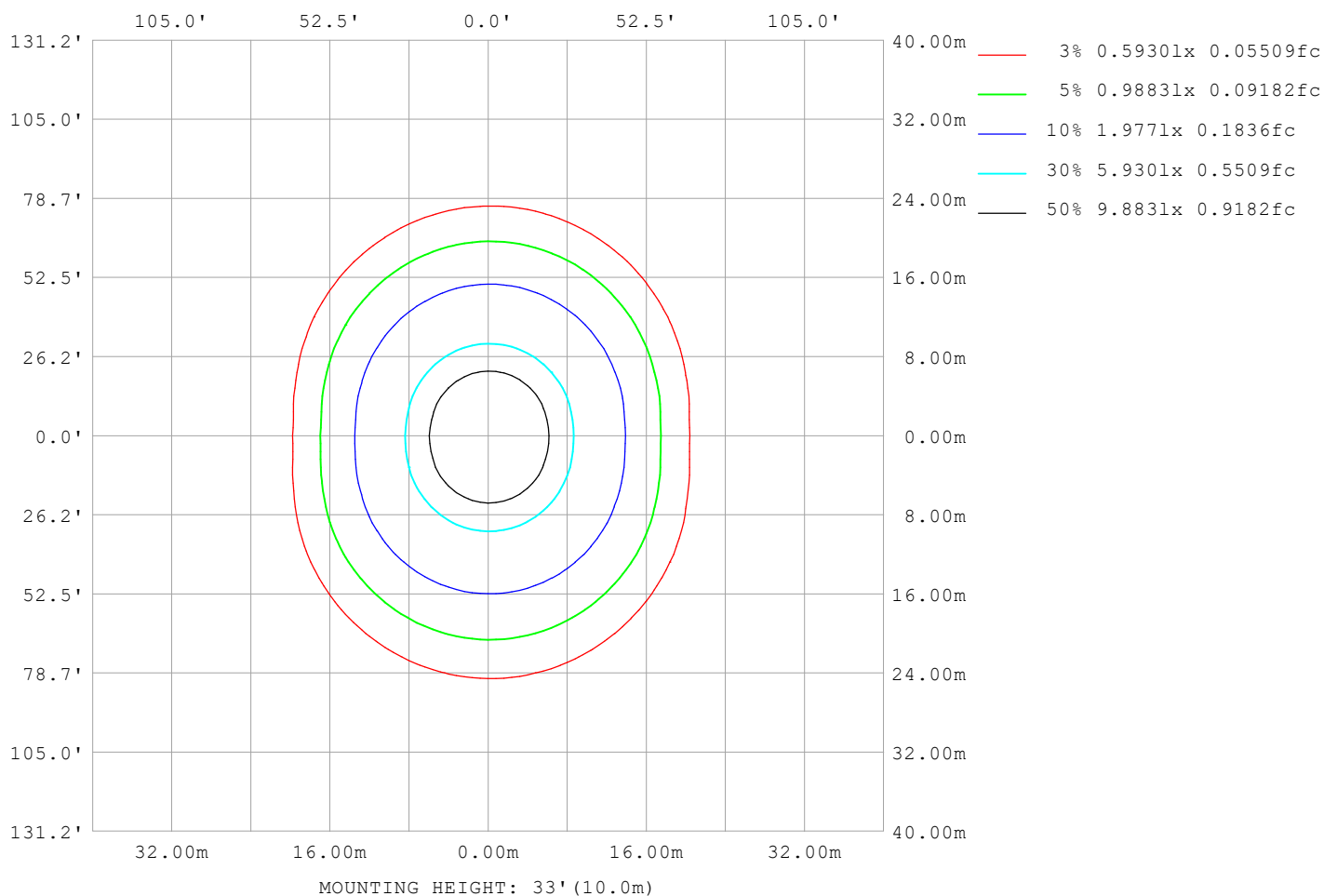
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		

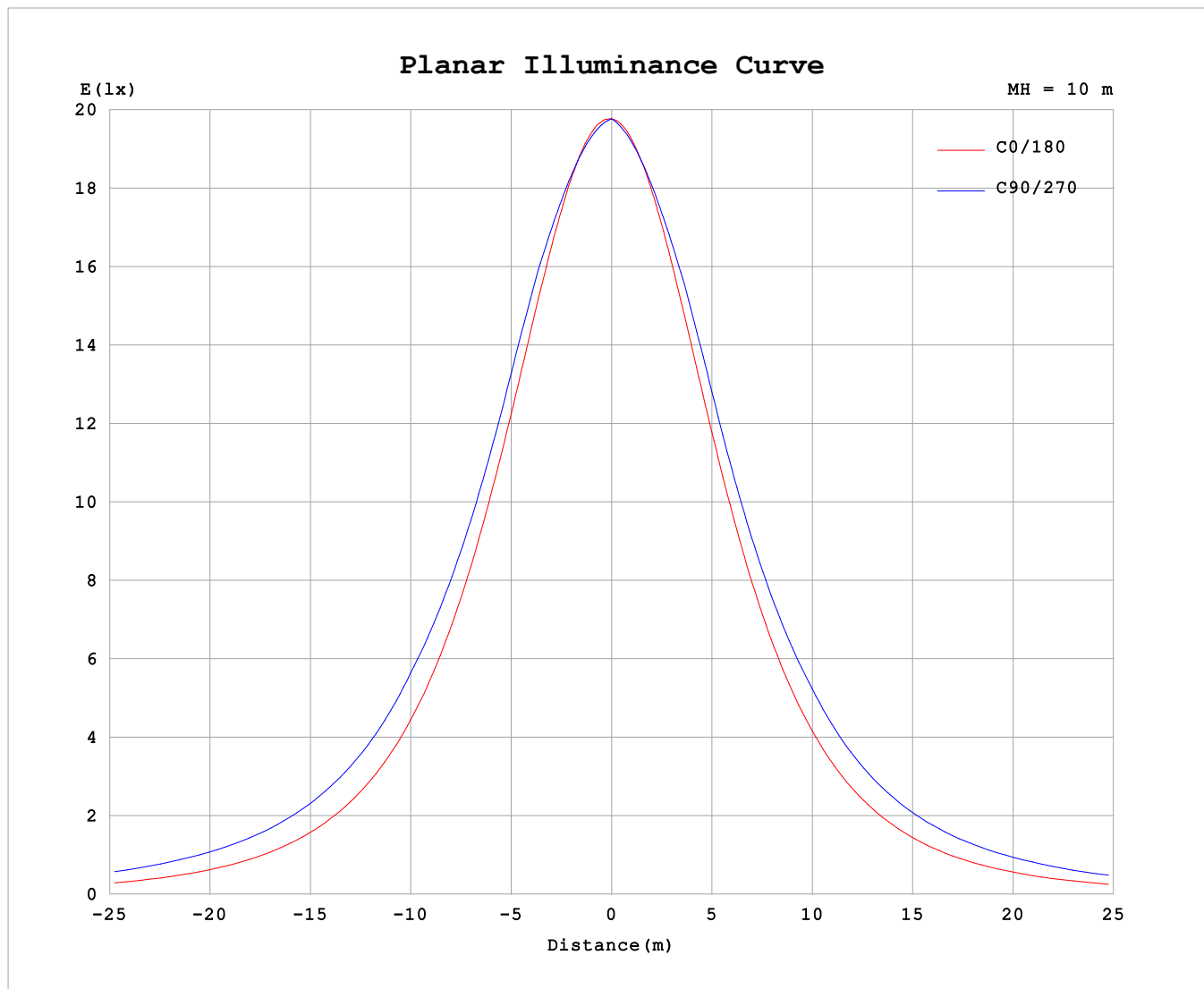
AvgL	cd/m2
L_0~180 (65) av	4094
L_0~180 (75) av	3418
L_0~180 (85) av	2048
L_90~270 (65) av	7237
L_90~270 (75) av	8570
L_90~270 (85) av	14924
L_45 (65) av	5971
L_45 (75) av	6848
L_45 (85) av	9680

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:120.55V I:0.3287A P:39.558W PF:0.9982 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6473.35x1 lm		
NAME: ETLSN-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: