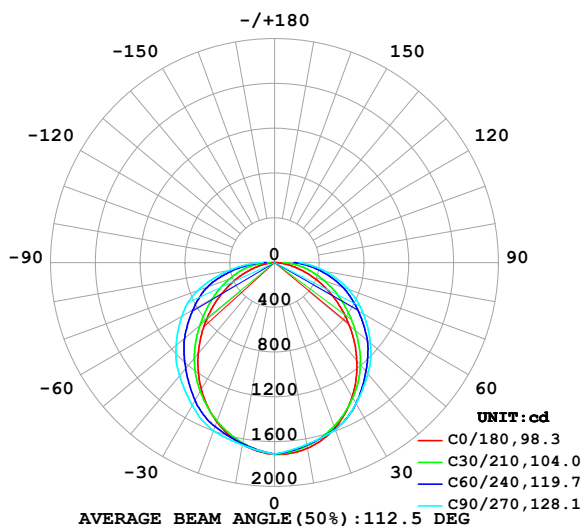


LUMINAIRE PHOTOMETRIC TEST REPORT

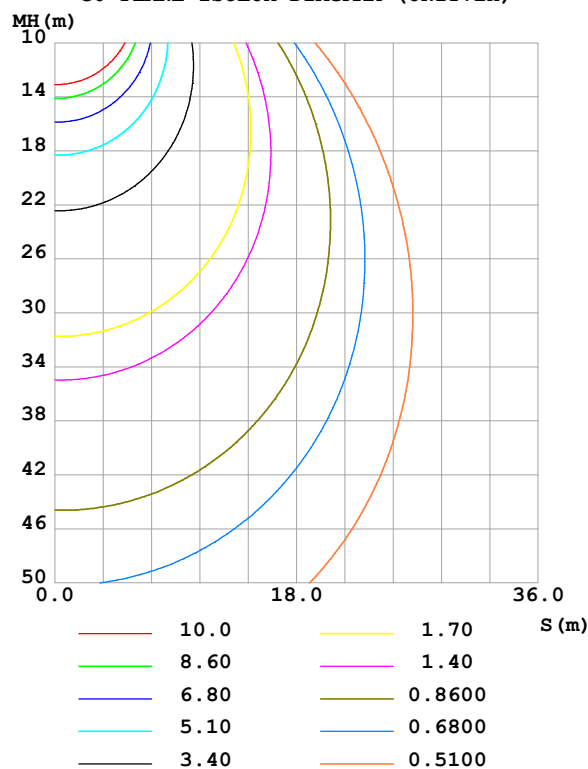
Test:U:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.08 lm/W			
MODEL		Imax (cd)	1714	S/MH(C0/180)	1.15
NOMINAL POWER(W)	34	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5028.4	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	5028.41	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
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	1685	1658	1650	1634	1652	1638	1656	1662	0- 10	160.0	160.0	3.18,3.18
20	1573	1568	1589	1520	1513	1529	1600	1572	10- 20	453.8	613.8	12.2,12.2
30	1387	1434	1455	1368	1310	1381	1472	1438	20- 30	683.8	1298	25.8,25.8
40	1142	1231	1296	1158	1063	1173	1320	1235	30- 40	814.7	2112	42,42
50	872.3	1012	1117	941.2	796.7	957.7	1148	1015	40- 50	843.1	2955	58.8,58.8
60	600.8	787.2	915.2	726.2	537.5	744.5	955.6	794.1	50- 60	776.5	3732	74.2,74.2
70	347.1	568.9	703.6	521.9	297.5	542.1	732.6	581.1	60- 70	639.5	4371	86.9,86.9
80	129.3	346.4	461.2	323.1	97.27	306.3	417.9	333.2	70- 80	443.9	4815	95.8,95.8
90	7.181	126.0	218.8	132.1	8.578	56.27	103.2	70.70	80- 90	213.1	5028	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): 2536.4 lm

%lum = 50.4%

%lamp = 50.4%

Conical surface Flux(130deg): 4072.2 lm

%lum = 81.0%

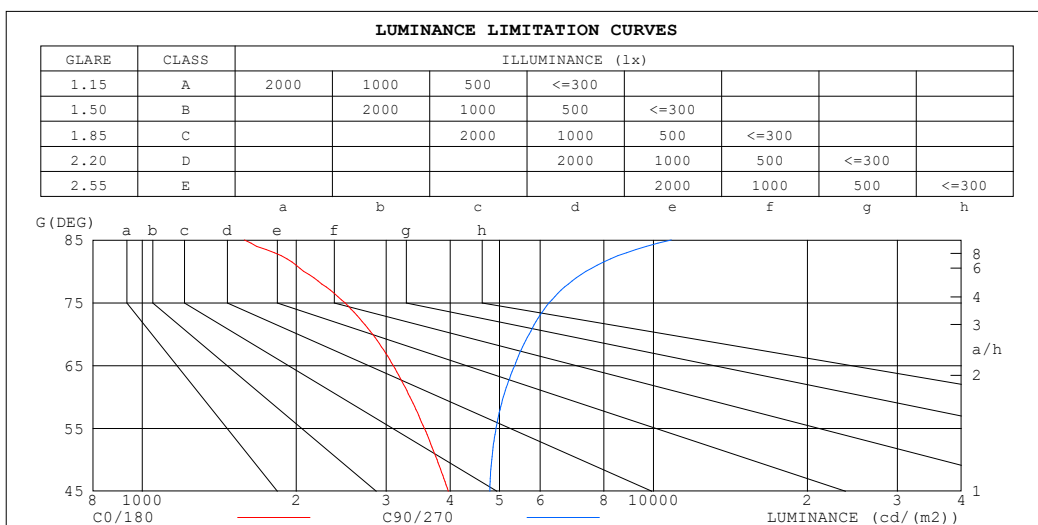
%lamp = 81.0%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1583	10836
80	2068	7378
75	2490	6250
70	2819	5714
65	3097	5354
60	3338	5085
55	3562	4920
50	3770	4826
45	3966	4782

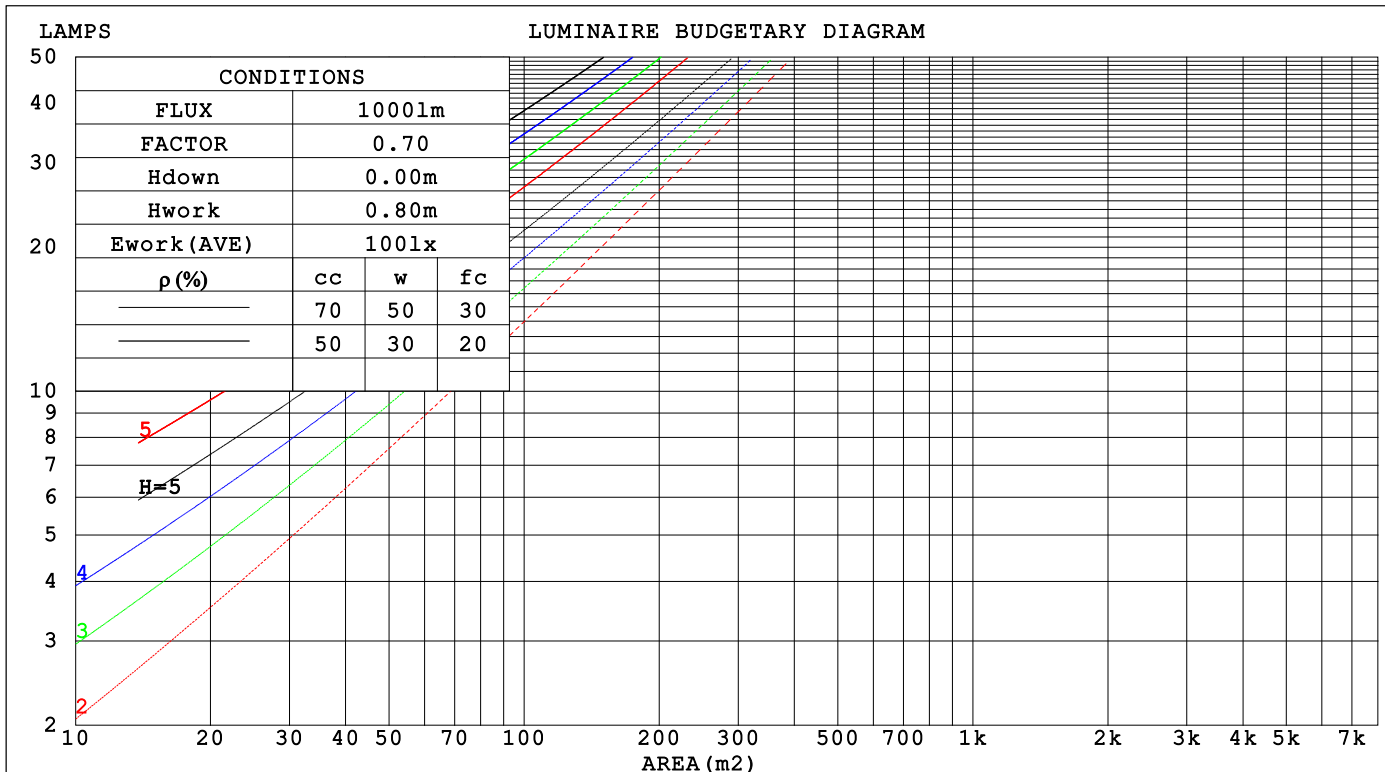
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-10-25

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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 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	.00														
1.0	1.02	.97	.93	.00	.95	.91	.95	.92	.89	.92	.89	.86	.88	.85	.83	.81														
2.0	.88	.81	.75	.86	.80	.74	.83	.77	.72	.79	.75	.70	.76	.72	.69	.67														
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56														
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47														
5.0	.61	.52	.45	.60	.51	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.41														
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.38	.36														
7.0	.50	.41	.34	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31														
8.0	.45	.37	.31	.45	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28														
9.0	.42	.33	.28	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.25														
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 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	.344	.196	.062	.337	.192	.061	.323	.185	.059	.311	.179	.058	.300	.174	.056		
2.0	.312	.171	.052	.306	.168	.052	.294	.163	.051	.283	.159	.050	.273	.154	.049		
3.0	.284	.151	.045	.278	.149	.045	.268	.145	.044	.258	.141	.043	.249	.138	.043		
4.0	.259	.135	.040	.254	.133	.039	.245	.130	.039	.236	.127	.038	.228	.124	.038		
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.034	.217	.115	.034	.210	.112	.034		
6.0	.219	.110	.031	.215	.109	.031	.208	.107	.031	.201	.104	.031	.195	.102	.030		
7.0	.203	.100	.028	.200	.099	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028		
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.175	.088	.026	.169	.087	.025		
9.0	.177	.086	.024	.174	.085	.024	.169	.083	.024	.164	.082	.024	.159	.081	.023		
10.0	.166	.080	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.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	.132	.156	.134	.113	.107	.092	.078	.062	.053	.046	.020	.017	.015		
2.0	.175	.132	.096	.150	.113	.083	.103	.079	.058	.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	.017	.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	.085	.050	.024	.050	.029	.014	.016	.010	.005		
7.0	.137	.076	.033	.118	.066	.028	.081	.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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 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	11.1	9.8	11.3	11.5	11.4	12.9	11.6	13.1	13.4
3H	10.8	12.3	11.1	12.5	12.8	13.6	15.0	13.9	15.3	15.5
4H	11.3	12.7	11.6	12.9	13.2	14.7	16.1	15.0	16.3	16.6
6H	11.6	12.9	11.9	13.2	13.5	15.7	17.0	16.1	17.3	17.6
8H	11.7	13.0	12.0	13.2	13.5	16.3	17.5	16.6	17.8	18.1
12H	11.7	12.9	12.1	13.2	13.6	16.8	18.0	17.2	18.3	18.6
4H 2H	10.5	11.9	10.9	12.2	12.4	11.9	13.3	12.2	13.6	13.8
3H	12.1	13.3	12.4	13.6	13.9	14.4	15.6	14.7	15.9	16.2
4H	12.7	13.8	13.1	14.2	14.5	15.6	16.8	16.0	17.1	17.4
6H	13.2	14.2	13.6	14.5	14.9	16.9	17.9	17.3	18.3	18.7
8H	13.3	14.3	13.7	14.6	15.0	17.6	18.5	18.0	18.9	19.3
12H	13.4	14.3	13.8	14.6	15.0	18.2	19.1	18.7	19.5	19.9
8H 4H	13.5	14.5	13.9	14.8	15.2	15.9	16.9	16.4	17.3	17.6
6H	14.3	15.1	14.7	15.5	15.9	17.5	18.3	17.9	18.7	19.1
8H	14.5	15.3	15.0	15.7	16.1	18.3	19.0	18.8	19.4	19.9
12H	14.7	15.3	15.2	15.8	16.3	19.2	19.8	19.7	20.2	20.7
12H 4H	13.7	14.6	14.1	15.0	15.4	16.0	16.8	16.4	17.2	17.6
6H	14.6	15.3	15.1	15.7	16.2	17.6	18.3	18.0	18.7	19.1
8H	15.0	15.6	15.5	16.1	16.6	18.5	19.1	18.9	19.5	20.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 5028 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.6)
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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

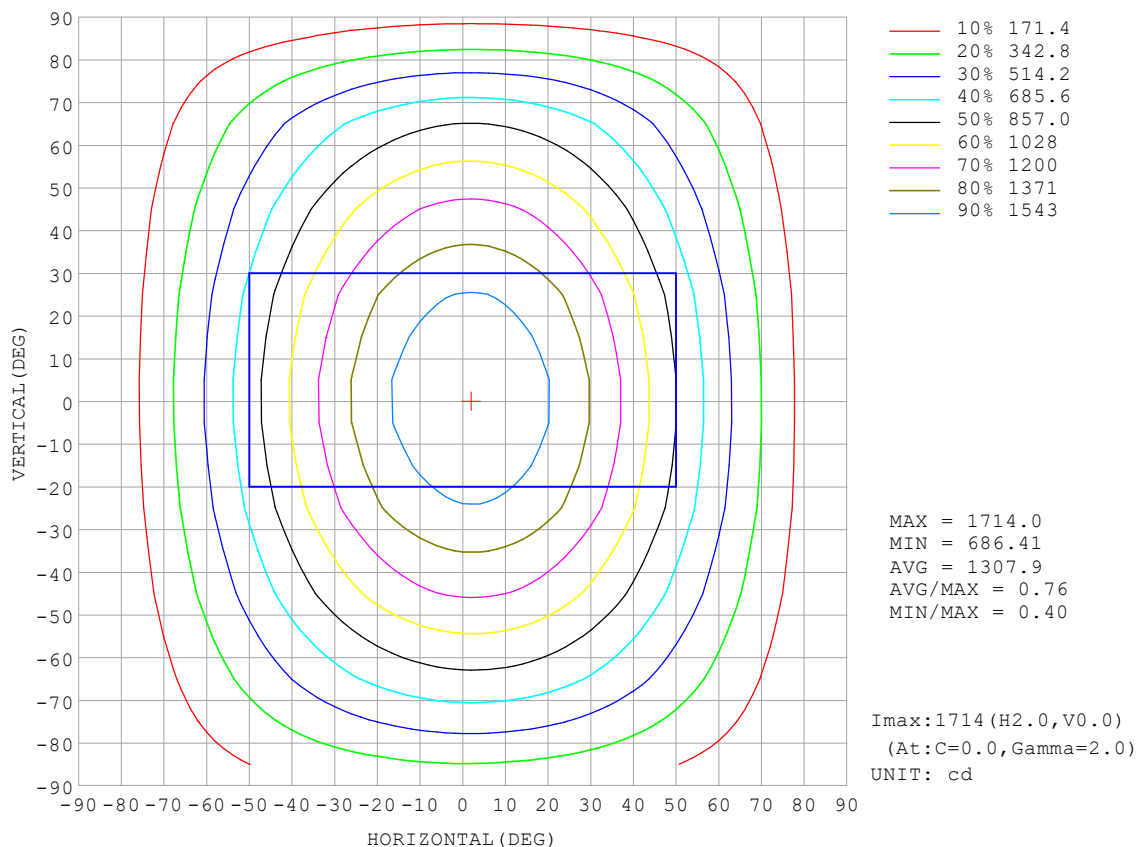
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	56	44	37	54	44	37	30
0.80	66	54	46	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	88	80	75	66
2.50	97	89	82	95	87	81	91	85	79	71
3.00	101	93	87	98	91	86	94	89	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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		



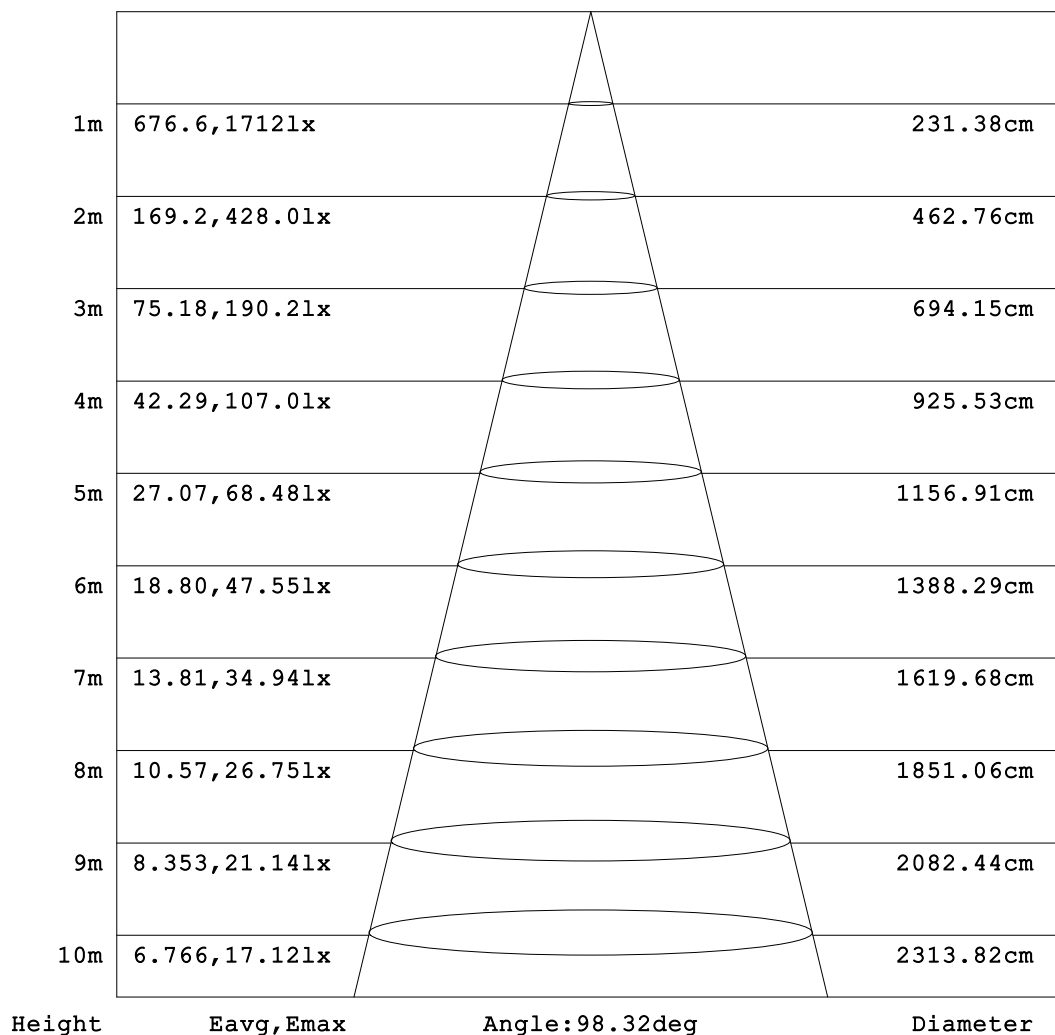
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-10-25

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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

Flux out:2914 lm



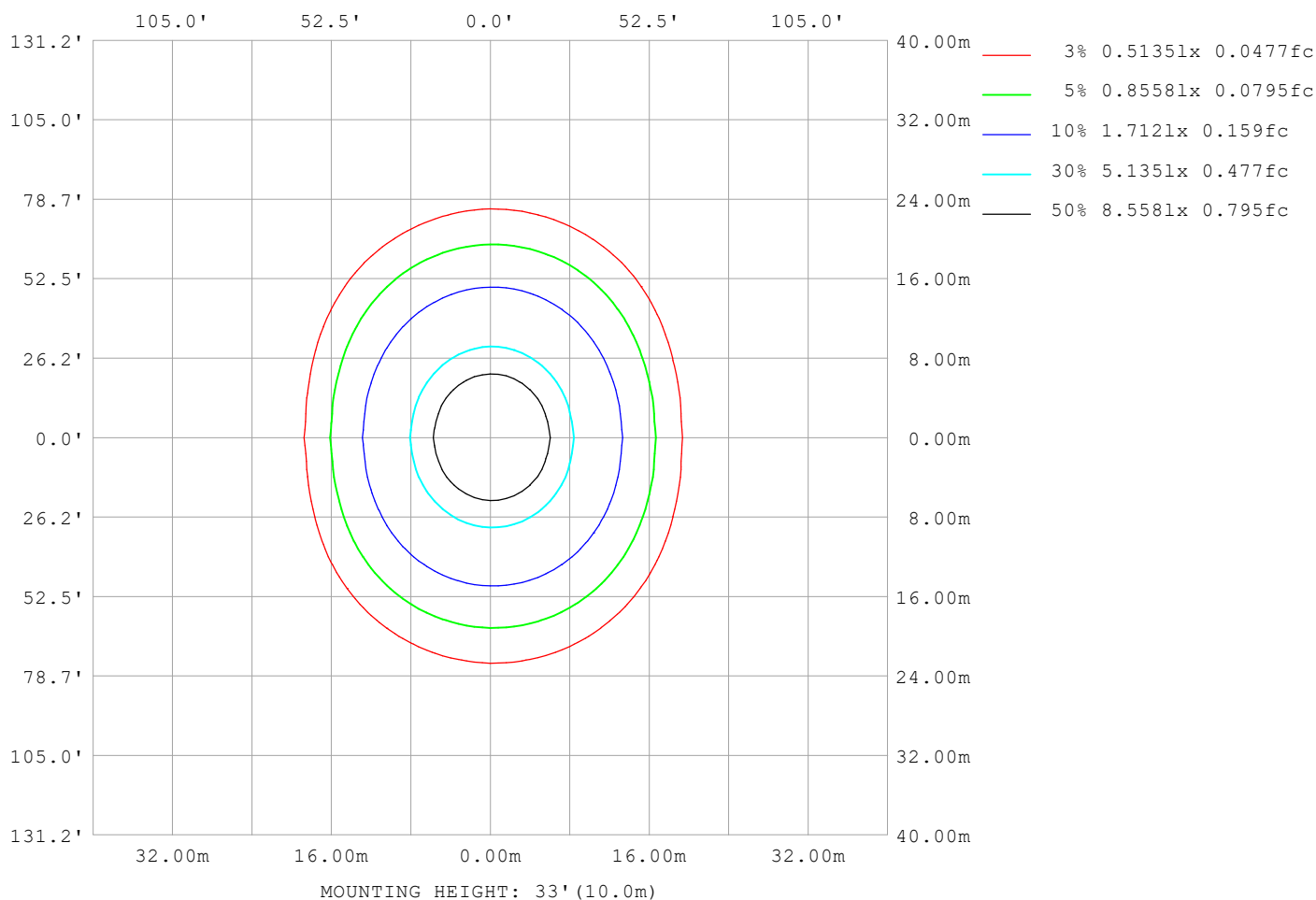
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 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:

LED Avg.L Report

Test:U:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

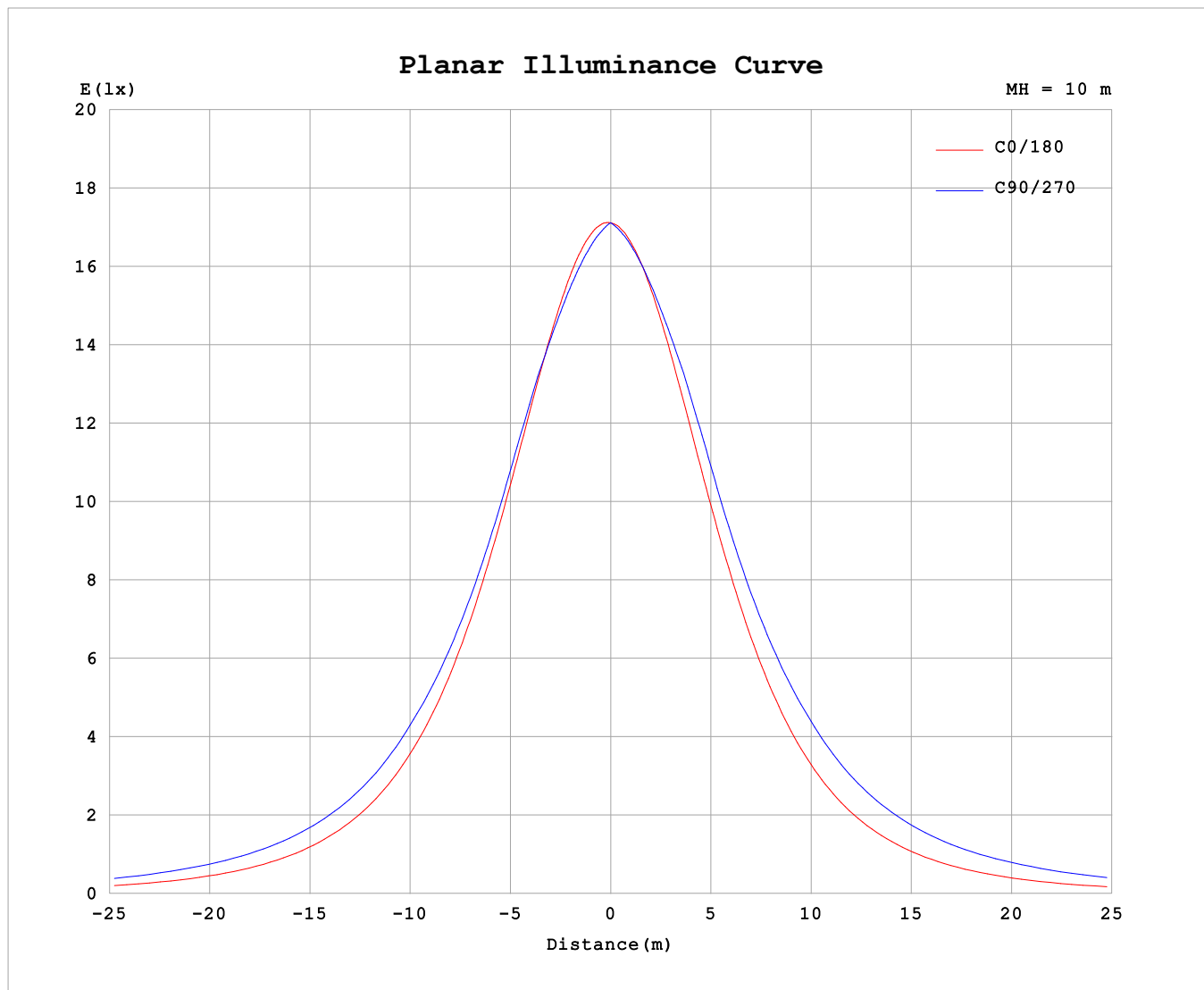
AvgL	cd/m2
L_0~180 (65) av	2910
L_0~180 (75) av	2266
L_0~180 (85) av	1253
L_90~270 (65) av	5501
L_90~270 (75) av	6212
L_90~270 (85) av	9570
L_45 (65) av	4305
L_45 (75) av	4806
L_45 (85) av	6696

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:

Test: U:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 5028.41x1 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:

Test:U:120.62V I:0.2747A P:33.064W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5028.41x1 lm		
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UNIT: cd

[illegible]

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Remarks: