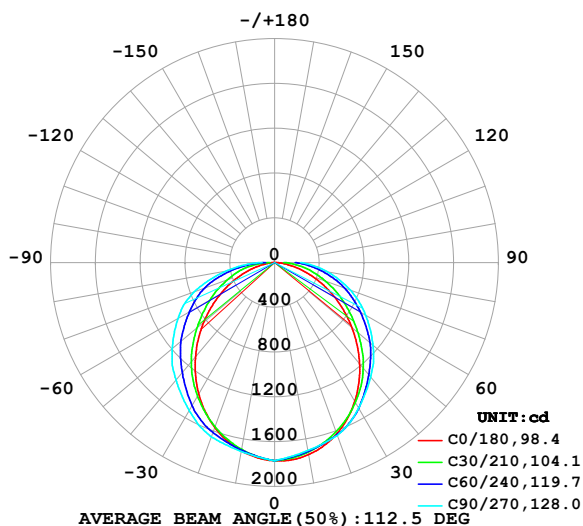


LUMINAIRE PHOTOMETRIC TEST REPORT

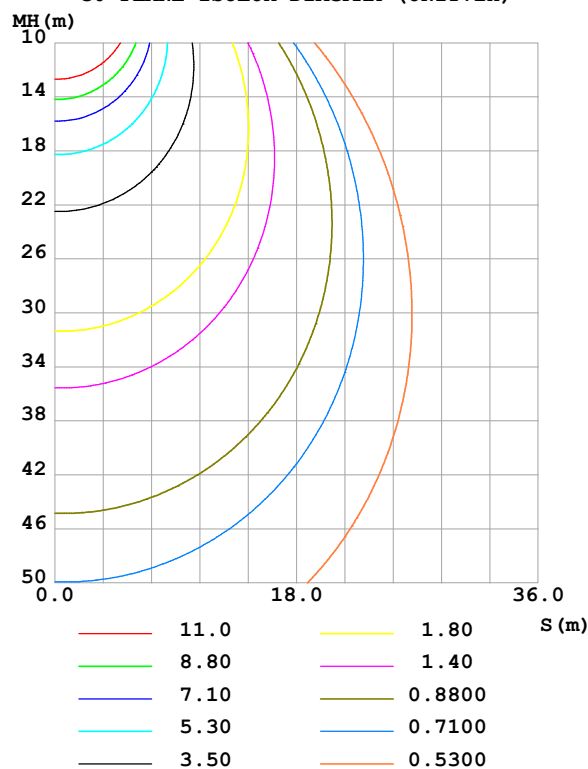
Test:U:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.71 lm/W			
MODEL		Imax (cd)	1772	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)	5204.6	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	5204.63	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
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	1742	1715	1706	1690	1709	1696	1713	1720	0- 10	165.5	165.5	3.18,3.18
20	1627	1621	1642	1573	1567	1584	1656	1627	10- 20	469.6	635.0	12.2,12.2
30	1433	1483	1501	1415	1356	1431	1526	1488	20- 30	707.6	1343	25.8,25.8
40	1182	1270	1335	1195	1100	1218	1371	1279	30- 40	842.9	2186	42,42
50	901.8	1042	1148	969.0	825.6	995.4	1194	1053	40- 50	872.0	3058	58.7,58.7
60	620.7	809.1	938.8	745.8	556.5	774.9	996.1	823.6	50- 60	803.0	3861	74.2,74.2
70	358.4	583.3	721.2	535.4	307.8	565.9	765.9	604.1	60- 70	661.3	4522	86.9,86.9
80	132.9	356.7	477.0	333.2	100.4	320.8	440.0	348.1	70- 80	459.7	4982	95.7,95.7
90	7.431	134.1	232.7	140.5	8.912	61.33	114.0	77.56	80- 90	223.0	5205	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): 2624.3 lm

%lum = 50.4%

%lamp = 50.4%

Conical surface Flux(130deg): 4212.5 lm

%lum = 80.9%

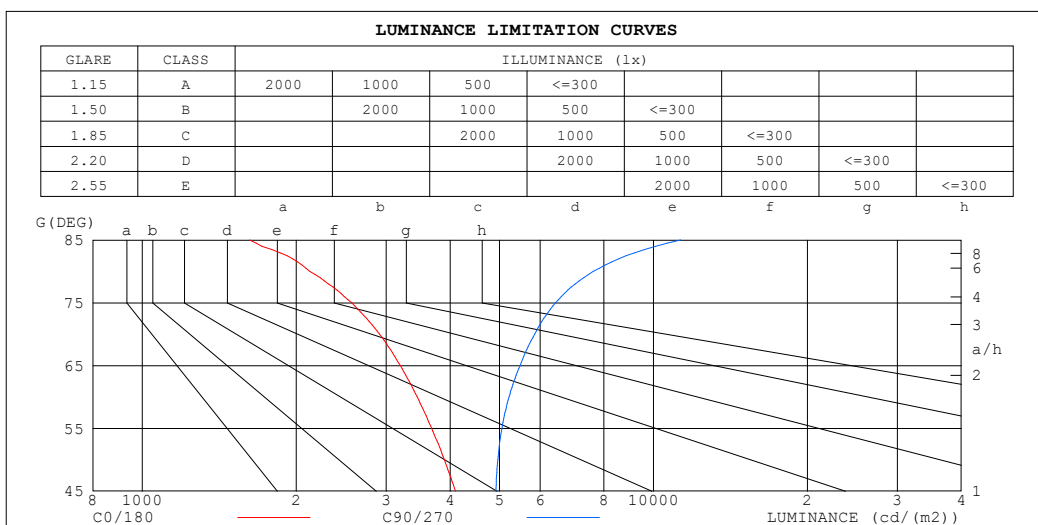
%lamp = 80.9%

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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1620	11309
80	2126	7630
75	2566	6430
70	2911	5857
65	3197	5485
60	3448	5216
55	3680	5052
50	3897	4959
45	4099	4918

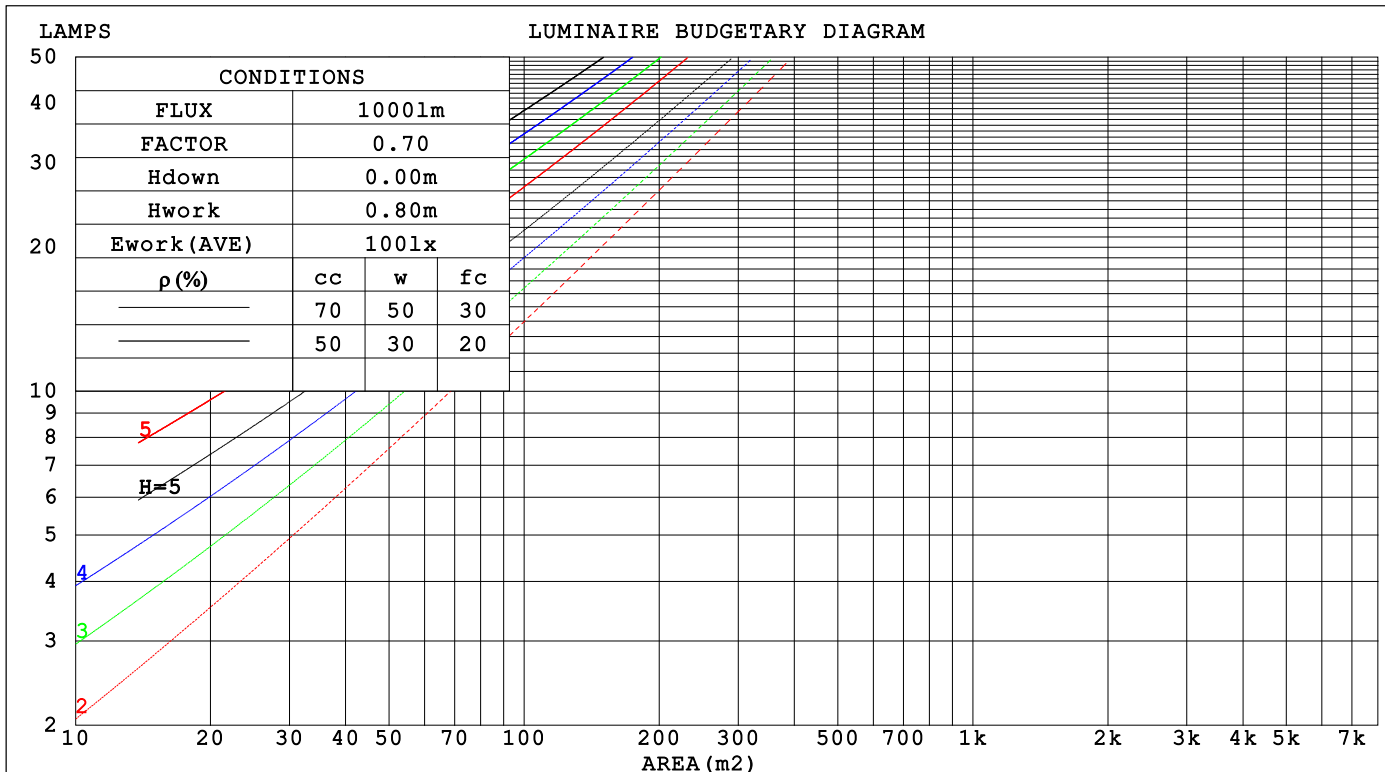
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-10-25

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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 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															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	.91	.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	.31	.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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 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	.324	.186	.059	.311	.180	.058	.300	.174	.056		
2.0	.312	.171	.053	.306	.169	.052	.294	.164	.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	.078	.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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 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	11.3	12.9	11.6	13.1	13.3
3H	10.8	12.3	11.1	12.5	12.7	13.5	15.0	13.8	15.2	15.5
4H	11.3	12.7	11.6	12.9	13.2	14.6	16.0	14.9	16.3	16.5
6H	11.6	12.9	11.9	13.2	13.5	15.7	17.0	16.0	17.3	17.6
8H	11.7	12.9	12.0	13.2	13.5	16.2	17.5	16.6	17.8	18.1
12H	11.7	12.9	12.1	13.2	13.5	16.8	18.0	17.1	18.3	18.6
4H 2H	10.5	11.9	10.8	12.2	12.4	11.9	13.3	12.2	13.5	13.8
3H	12.0	13.3	12.4	13.6	13.9	14.3	15.5	14.7	15.8	16.1
4H	12.7	13.8	13.1	14.1	14.5	15.6	16.7	16.0	17.0	17.4
6H	13.1	14.1	13.5	14.5	14.9	16.9	17.9	17.3	18.2	18.6
8H	13.3	14.2	13.7	14.6	15.0	17.5	18.5	17.9	18.8	19.2
12H	13.3	14.2	13.8	14.6	15.0	18.2	19.1	18.7	19.5	19.9
8H 4H	13.5	14.4	13.9	14.8	15.2	15.9	16.8	16.3	17.2	17.6
6H	14.2	15.0	14.7	15.4	15.8	17.4	18.2	17.9	18.6	19.1
8H	14.5	15.2	15.0	15.6	16.1	18.3	19.0	18.7	19.4	19.8
12H	14.7	15.3	15.2	15.7	16.2	19.2	19.8	19.6	20.2	20.7
12H 4H	13.7	14.5	14.1	14.9	15.3	15.9	16.8	16.3	17.2	17.6
6H	14.6	15.3	15.0	15.7	16.2	17.5	18.2	18.0	18.6	19.1
8H	15.0	15.6	15.4	16.0	16.5	18.4	19.0	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, 5205 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.7)
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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

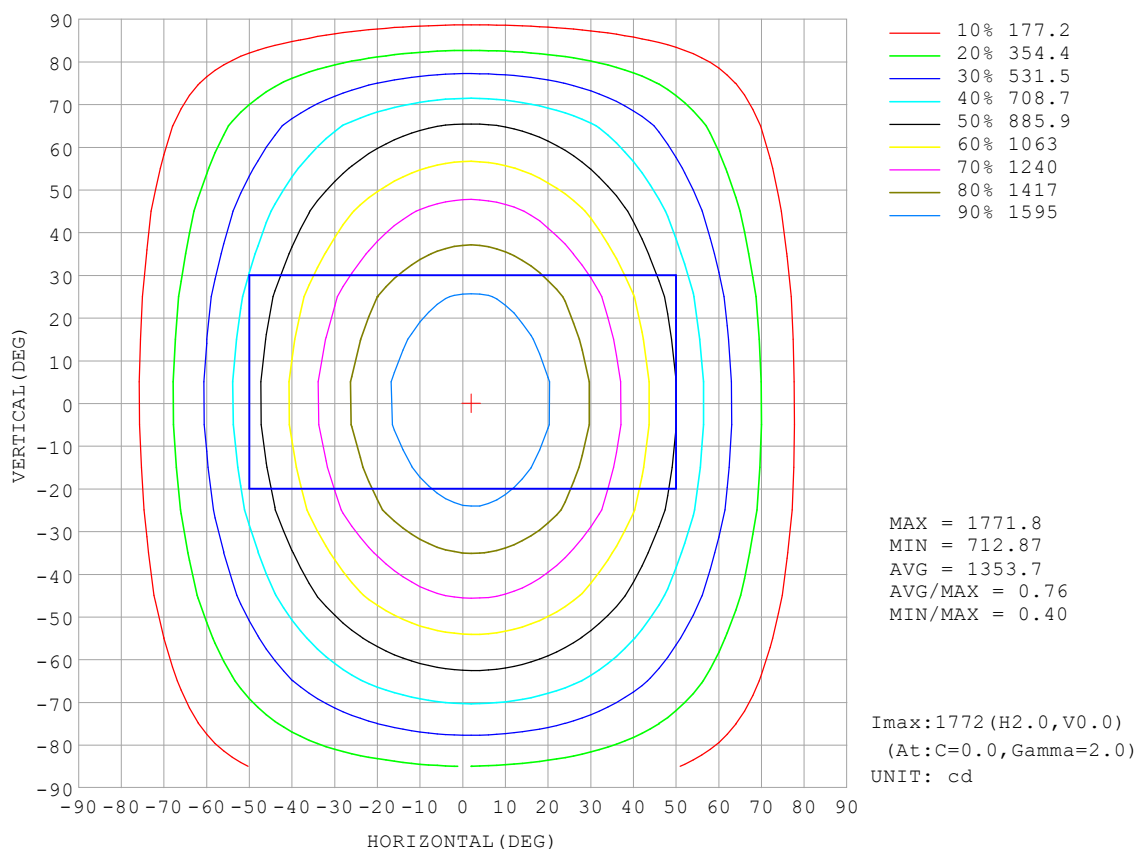
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	56	44	37	54	44	37	30
0.80	66	54	46	65	54	46	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	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

$V(B)$ 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:

ISOCANDELA DIAGRAM

Test:U:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

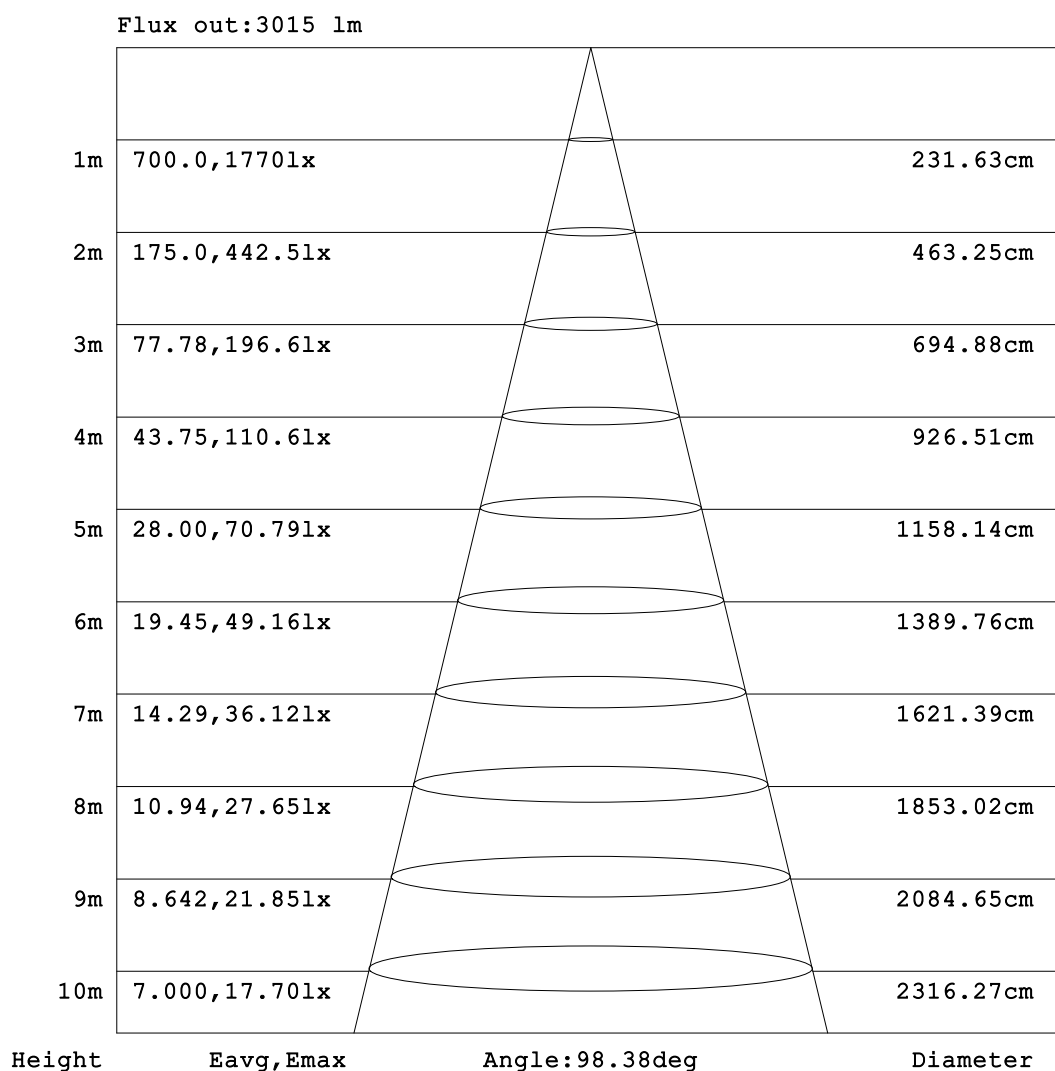


H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QUYEN
 Test Date:2025-10-25

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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



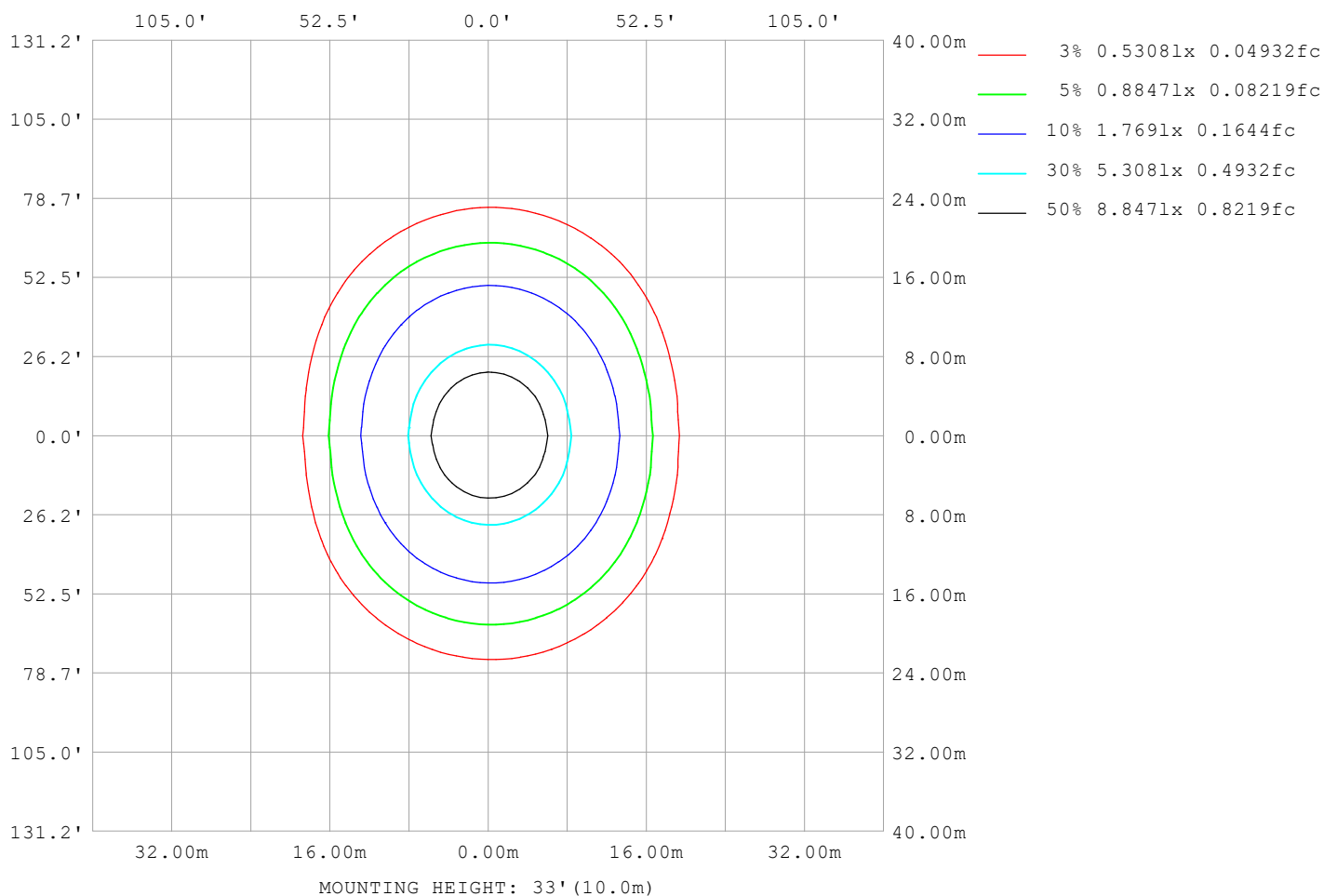
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 5204.63x1 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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

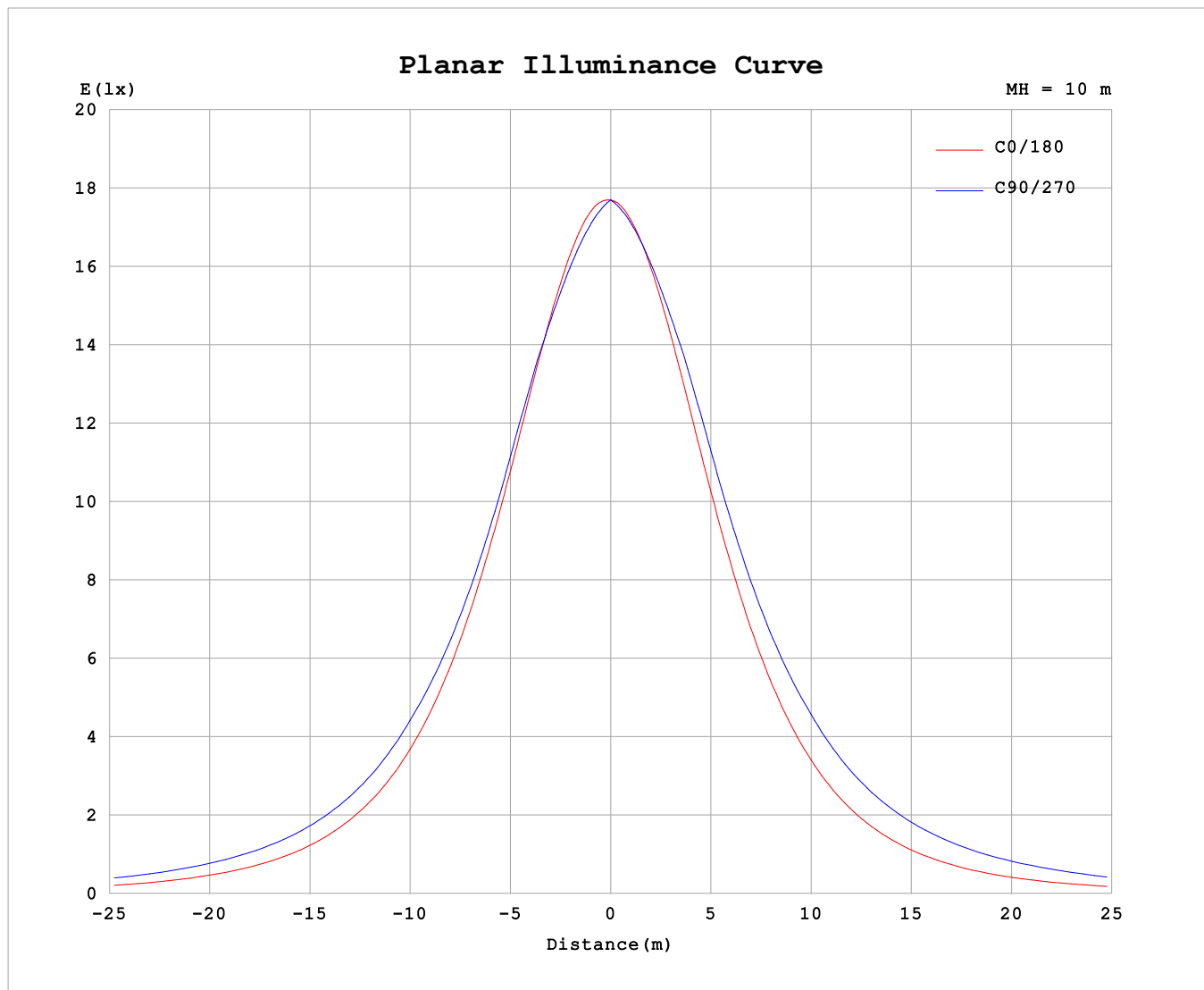
AvgL	cd/m2
L_0~180 (65) av	3008
L_0~180 (75) av	2338
L_0~180 (85) av	1285
L_90~270 (65) av	5690
L_90~270 (75) av	6450
L_90~270 (85) av	10069
L_45 (65) av	4449
L_45 (75) av	4971
L_45 (85) av	7004

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:120.60V I:0.2708A P:32.588W PF:0.9977 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5204.63x1 lm		
NAME: ETLSN-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]
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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%
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UNIT: cd

[illegible]

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