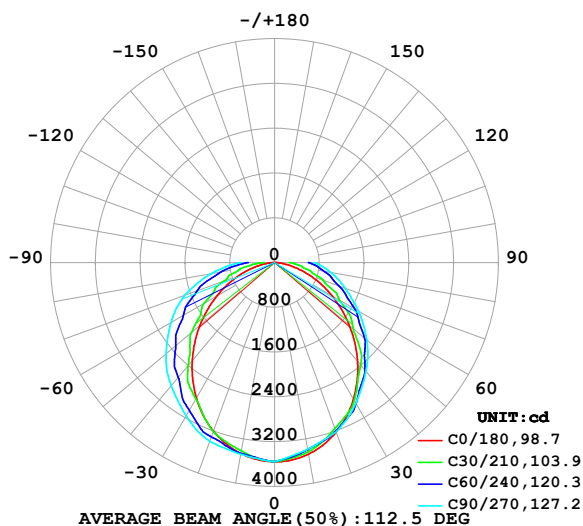


LUMINAIRE PHOTOMETRIC TEST REPORT

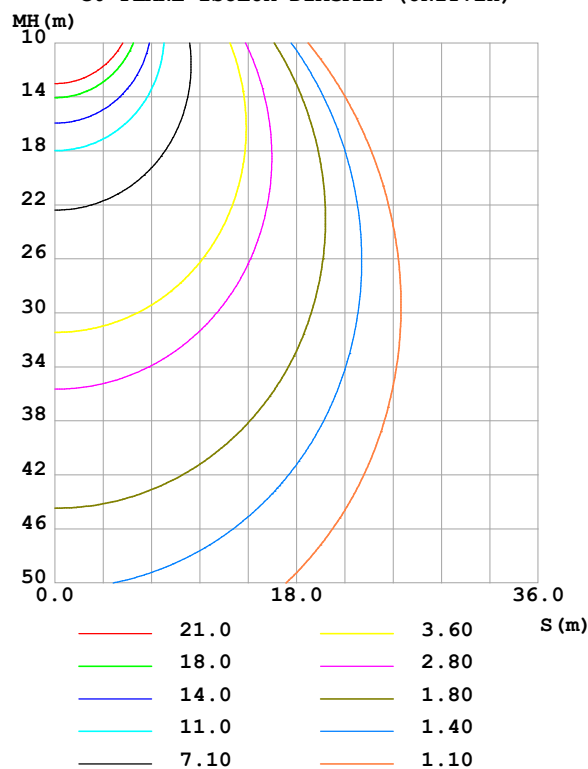
Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.30 lm/W			
MODEL		Imax (cd)	3559	S/MH(C0/180)	1.18
NOMINAL POWER(W)	68	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10620	η UP,DN(C0-180)	0.0,47.8
NOMINAL FLUX(lm)	10620.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.2
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:2025-11-05

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=1.0820]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3476	3410	3388	3373	3466	3437	3478	3473	0- 10	332.3	332.3	3.13,3.13
20	3223	3199	3217	3100	3203	3225	3398	3320	10- 20	942.5	1275	12,12
30	2819	2873	2903	2790	2797	2968	3162	3037	20- 30	1420	2695	25.4,25.4
40	2308	2414	2542	2362	2290	2577	2873	2602	30- 40	1691	4385	41.3,41.3
50	1743	1942	2151	1907	1741	2152	2532	2147	40- 50	1749	6135	57.8,57.8
60	1184	1492	1732	1444	1190	1699	2137	1700	50- 60	1611	7746	72.9,72.9
70	667.0	1080	1338	999.6	677.3	1243	1704	1287	60- 70	1330	9076	85.5,85.5
80	228.3	753.0	1022	671.4	244.9	775.4	1153	823.4	70- 80	966.3	10042	94.6,94.6
90	8.239	455.5	706.2	445.9	17.48	339.6	601.4	313.6	80- 90	578.3	10620	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): 5265.5 lm

%lum = 49.6%

%lamp = 49.6%

Conical surface Flux(130deg): 8452.1 lm

%lum = 79.6%

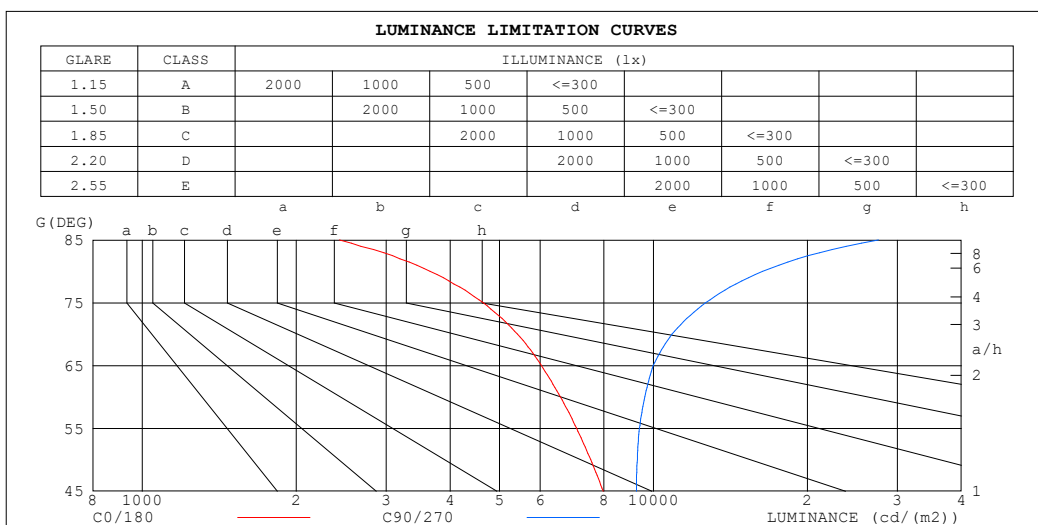
%lamp = 79.6%

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-05

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=1.0820]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2428	27549
80	3652	16349
75	4643	12651
70	5417	10866
65	6037	9986
60	6576	9620
55	7072	9387
50	7534	9296
45	7970	9260

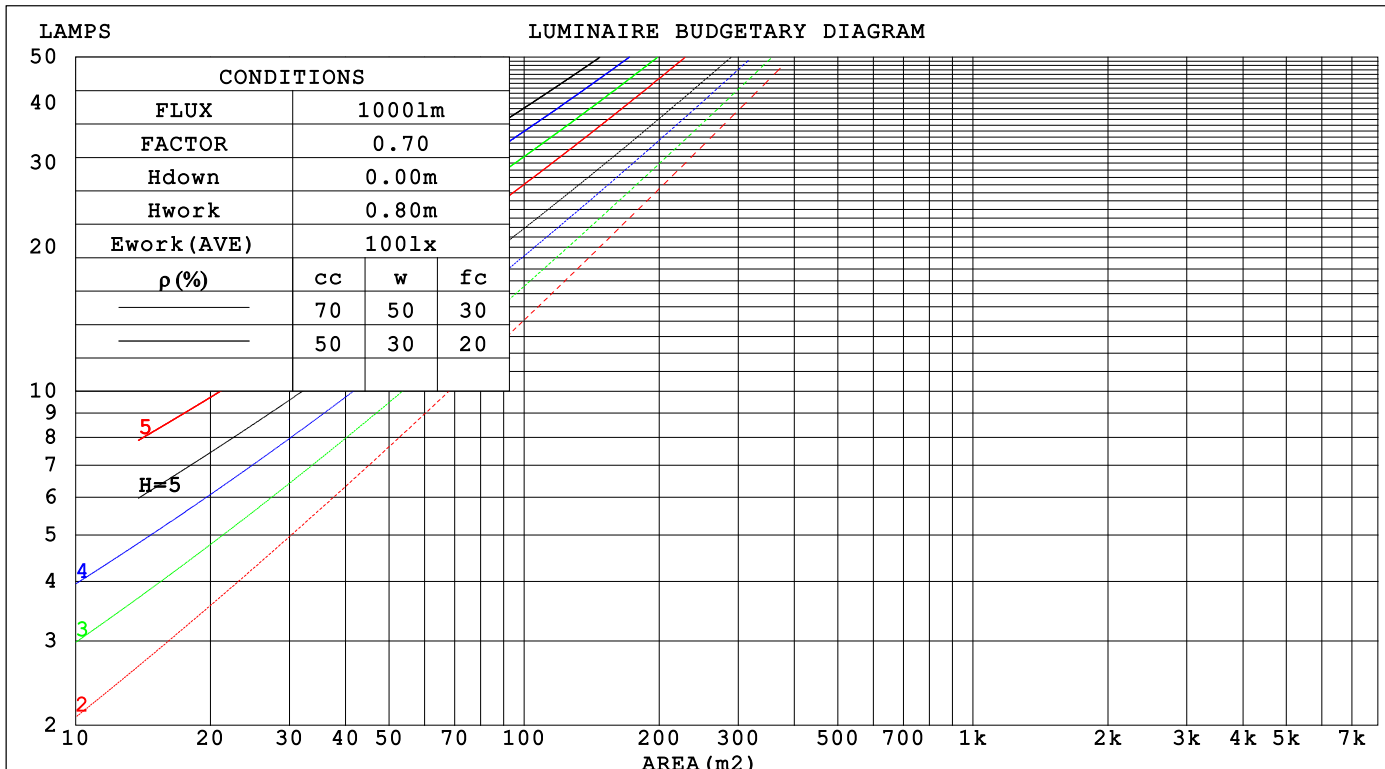
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-05

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=1.0820]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLN-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	1.01	.96	.92	.99	.95	.90	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80														
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.69	.76	.71	.68	.66														
3.0	.77	.68	.61	.75	.67	.60	.72	.65	.59	.69	.63	.58	.66	.61	.57	.55														
4.0	.68	.58	.51	.66	.58	.51	.64	.56	.50	.61	.55	.49	.59	.53	.49	.46														
5.0	.60	.51	.44	.59	.50	.44	.57	.49	.43	.55	.48	.43	.53	.47	.42	.40														
6.0	.54	.45	.38	.53	.45	.38	.51	.44	.38	.50	.43	.37	.48	.42	.37	.35														
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31														
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.29	.27														
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25														
10.0	.38	.30	.25	.38	.30	.25	.36	.29	.24	.36	.29	.24	.35	.29	.24	.22														



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-05

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=1.0820]
Remarks:

WEC AND CCEC

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 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	.357	.203	.064	.350	.200	.063	.337	.193	.062	.324	.187	.060	.313	.181	.058			
2.0	.319	.175	.054	.313	.172	.053	.301	.167	.052	.290	.163	.051	.280	.158	.050			
3.0	.288	.153	.046	.282	.151	.046	.272	.147	.045	.262	.144	.044	.253	.140	.043			
4.0	.262	.136	.040	.257	.134	.040	.248	.131	.039	.239	.128	.039	.231	.125	.038			
5.0	.240	.122	.035	.235	.121	.035	.227	.118	.035	.219	.116	.034	.212	.113	.034			
6.0	.221	.111	.032	.217	.110	.032	.209	.107	.031	.203	.105	.031	.196	.103	.031			
7.0	.204	.101	.029	.201	.100	.029	.194	.098	.028	.188	.096	.028	.182	.095	.028			
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.176	.089	.026	.170	.087	.025			
9.0	.178	.086	.024	.175	.085	.024	.170	.084	.024	.165	.082	.024	.160	.081	.023			
10.0	.167	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.151	.076	.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	.131	.157	.134	.112	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.056	.137	.088	.049	.094	.061	.035	.055	.036	.020	.018	.012	.007	
5.0	.152	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.005	
6.0	.145	.083	.038	.124	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.032	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.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	.119	.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:2025-11-05

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=1.0820]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 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	9.1	10.7	9.4	10.9	11.1	10.7	12.2	10.9	12.4	12.7
3H	10.4	11.9	10.7	12.1	12.4	12.8	14.3	13.1	14.5	14.8
4H	10.9	12.3	11.2	12.5	12.8	14.0	15.4	14.3	15.7	15.9
6H	11.2	12.5	11.5	12.8	13.1	15.3	16.6	15.7	16.9	17.2
8H	11.2	12.5	11.6	12.8	13.1	16.0	17.3	16.4	17.6	17.9
12H	11.3	12.5	11.6	12.8	13.1	16.8	18.1	17.2	18.4	18.7
4H 2H	10.0	11.4	10.4	11.7	12.0	11.2	12.6	11.5	12.9	13.1
3H	11.6	12.8	11.9	13.1	13.4	13.6	14.9	14.0	15.2	15.5
4H	12.2	13.3	12.6	13.7	14.0	15.0	16.2	15.4	16.5	16.8
6H	12.7	13.7	13.1	14.0	14.4	16.6	17.6	17.0	17.9	18.3
8H	12.8	13.7	13.2	14.1	14.5	17.4	18.4	17.8	18.7	19.1
12H	12.8	13.7	13.3	14.1	14.5	18.4	19.2	18.8	19.6	20.0
8H 4H	13.0	14.0	13.4	14.3	14.7	15.3	16.3	15.8	16.7	17.1
6H	13.8	14.6	14.2	15.0	15.4	17.2	18.0	17.6	18.4	18.8
8H	14.0	14.8	14.5	15.2	15.7	18.2	19.0	18.7	19.4	19.8
12H	14.2	14.9	14.7	15.3	15.8	19.4	20.1	19.9	20.5	21.0
12H 4H	13.2	14.1	13.7	14.5	14.9	15.4	16.3	15.8	16.6	17.1
6H	14.2	14.9	14.7	15.4	15.8	17.3	18.0	17.7	18.4	18.9
8H	14.6	15.3	15.1	15.7	16.2	18.4	19.1	18.9	19.5	20.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 10620 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.2)
Area: 0.36 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-11-05

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=1.0820]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

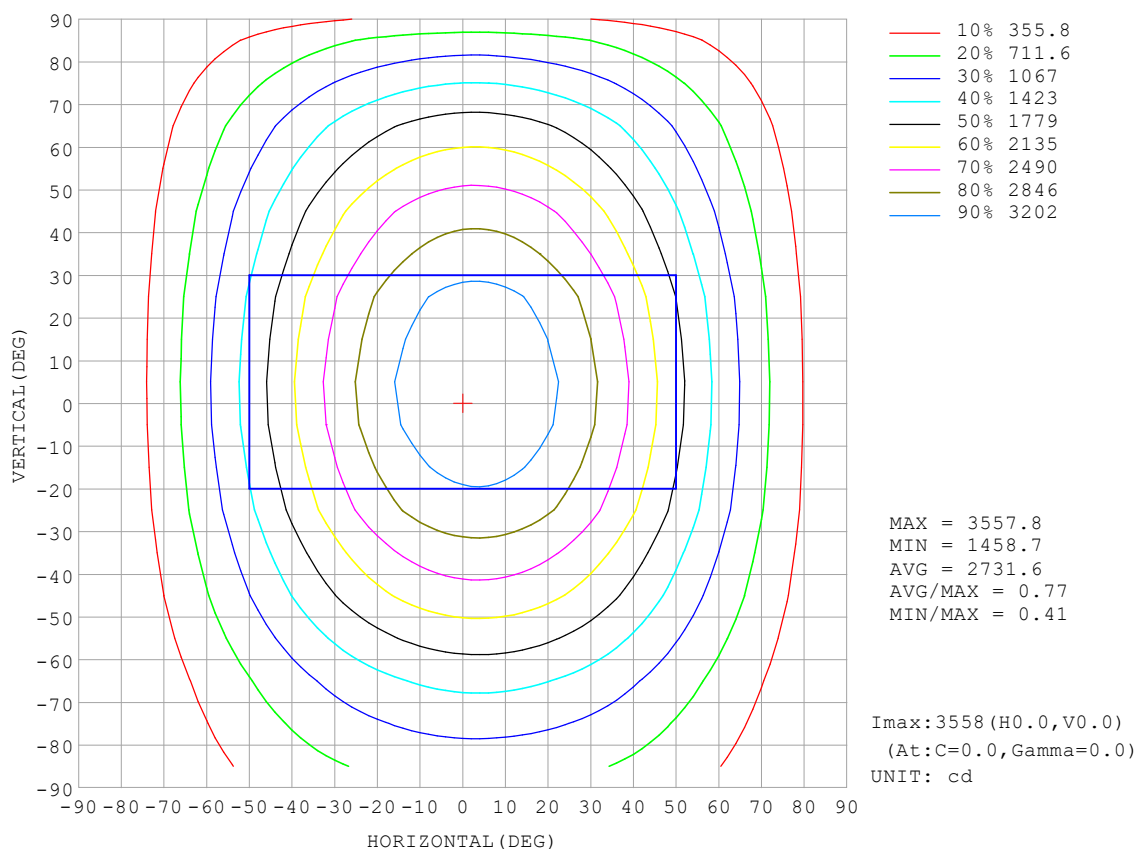
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	53	46	64	53	46	63	52	45	38
1.00	74	62	54	72	61	54	70	63	53	46
1.25	81	69	62	79	69	61	76	67	61	53
1.50	86	75	67	84	74	67	81	72	66	58
2.00	92	83	76	91	82	75	87	80	74	65
2.50	96	88	81	94	86	80	90	84	78	70
3.00	100	92	86	98	91	85	93	88	83	74
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	101	97	104	99	95	100	96	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:2025-11-05

$V(B)$ 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=1.0820]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLN-G2-4FT		
MFR.: EVERTIE		

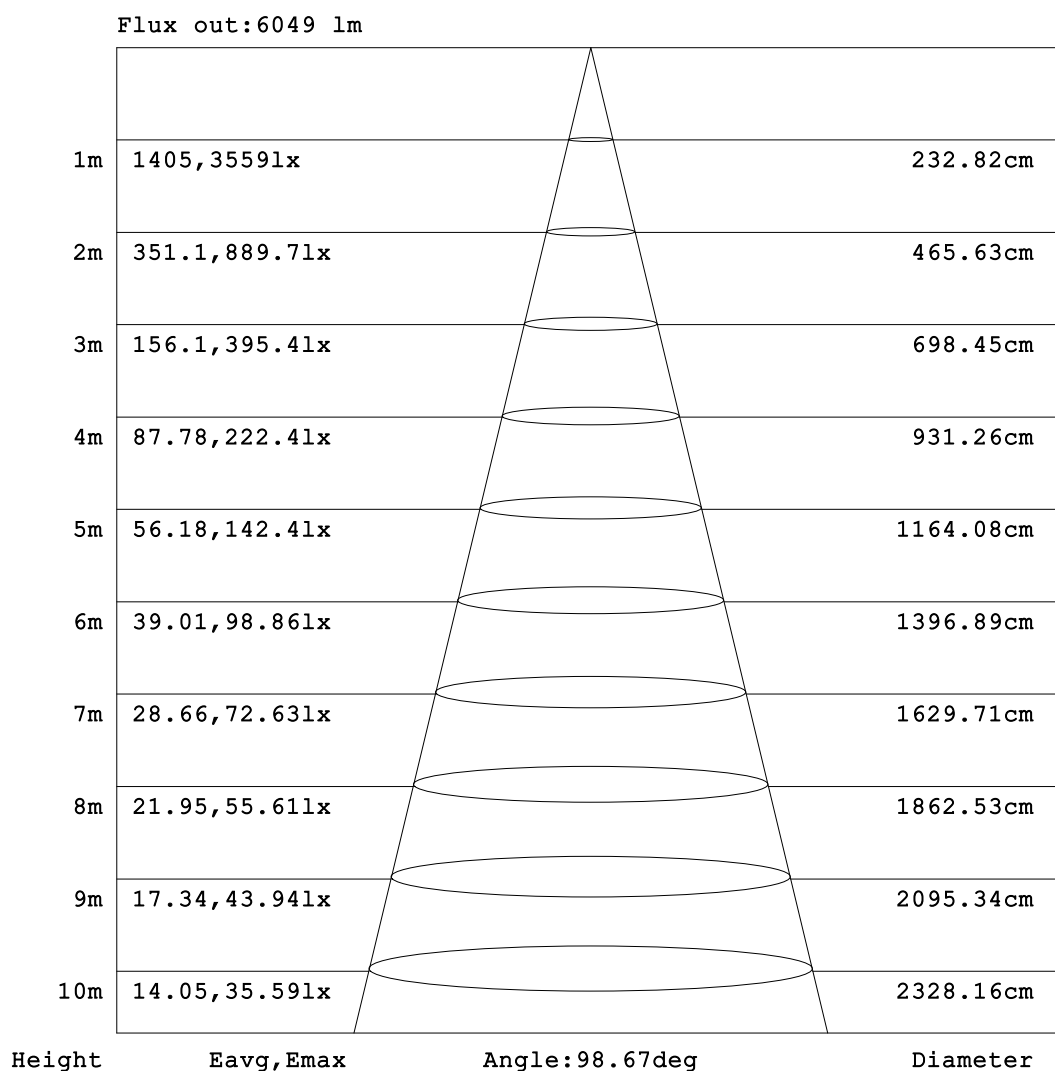


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-05

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=1.0820]
Remarks:

AAI Figure

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		



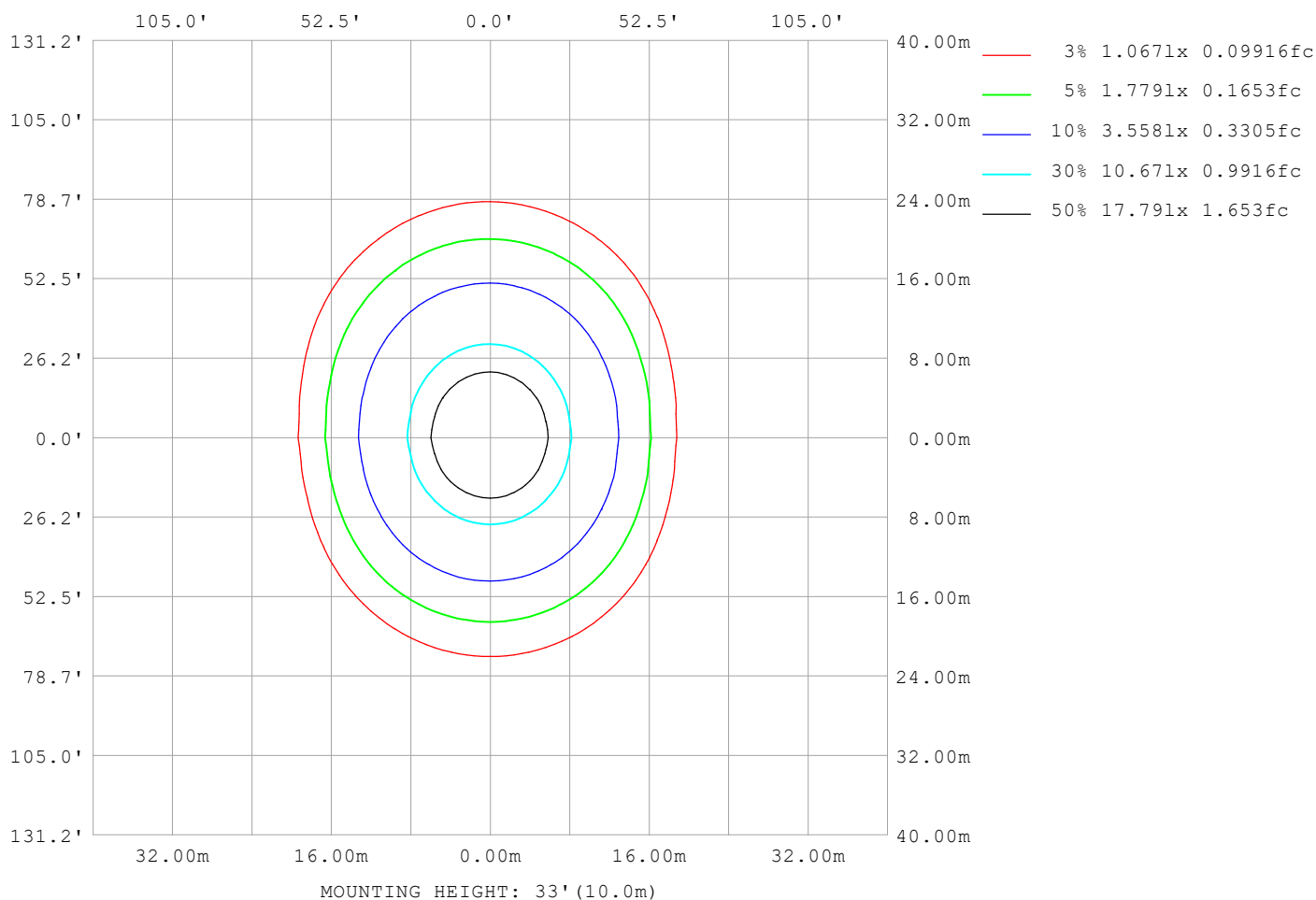
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: QUYEN
 Test Date: 2025-11-05

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=1.0820]
 Remarks:

ISOLUX DIAGRAM

Test: U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 10620.2x1 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:2025-11-05

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=1.0820]
Remarks:

LED Avg.L Report

Test:U:120.53V I:0.5543A P:66.670W PF:0.9979 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10620.2x1 lm		
NAME: ETLSN-G2-4FT		
MFR.: EVERTIE		

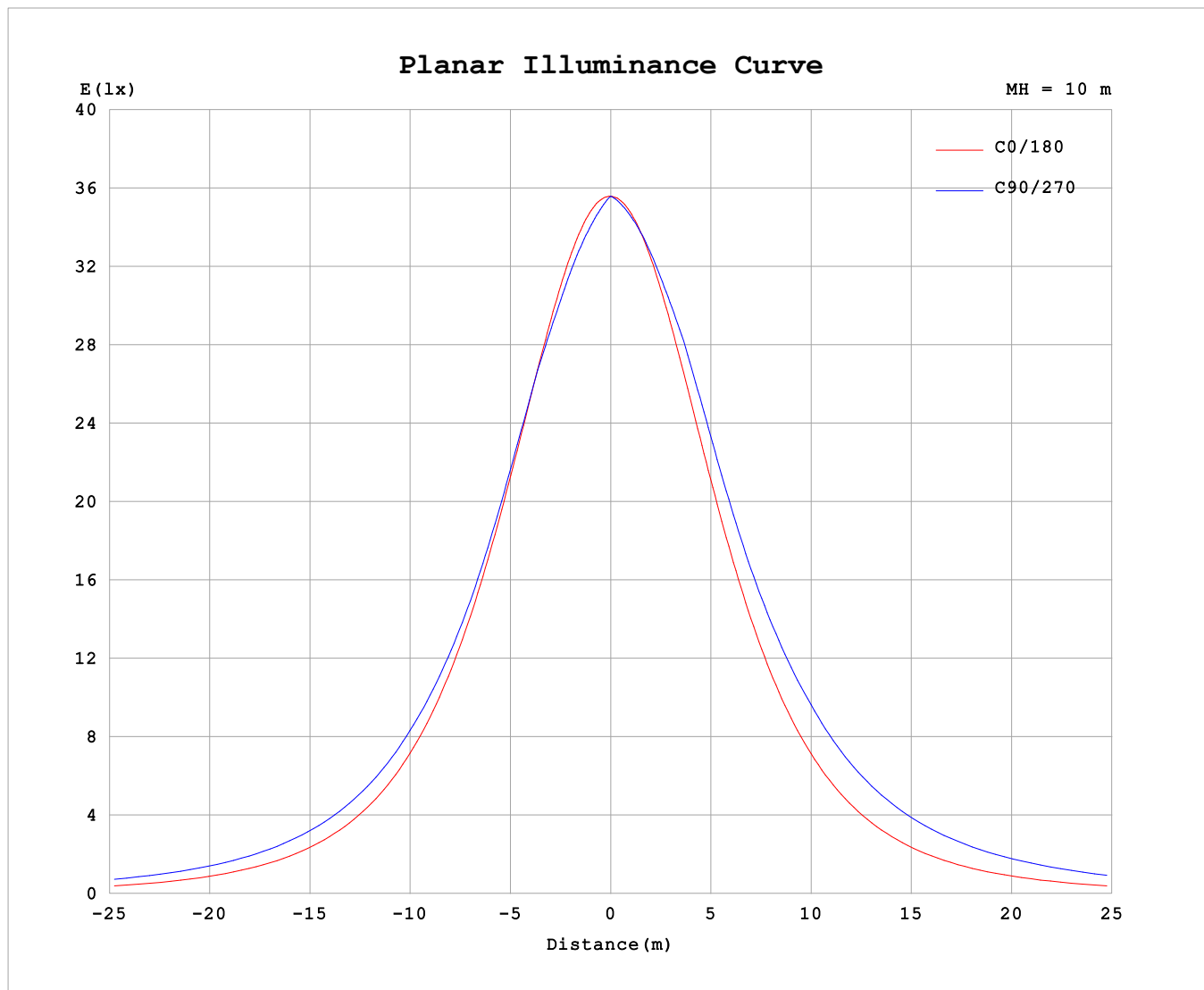
AvgL	cd/m2
L_0~180 (65) av	6066
L_0~180 (75) av	4716
L_0~180 (85) av	2612
L_90~270 (65) av	11362
L_90~270 (75) av	13983
L_90~270 (85) av	27750
L_45 (65) av	8945
L_45 (75) av	10224
L_45 (85) av	18112

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:2025-11-05

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=1.0820]
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:2025-11-05

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=1.0820]
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=1.0820]
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=1.0820]
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=1.0820]
Remarks: