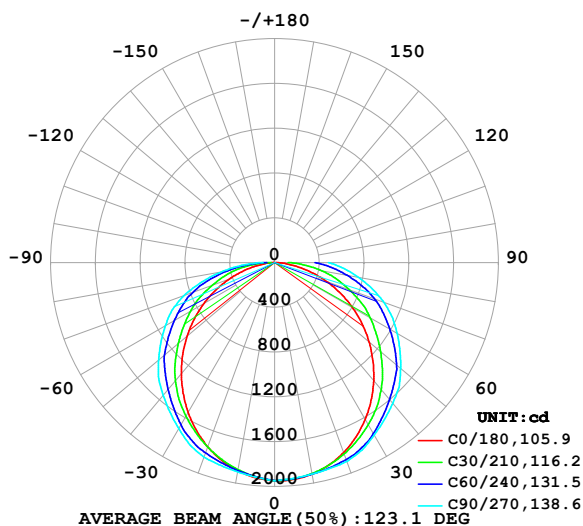


LUMINAIRE PHOTOMETRIC TEST REPORT

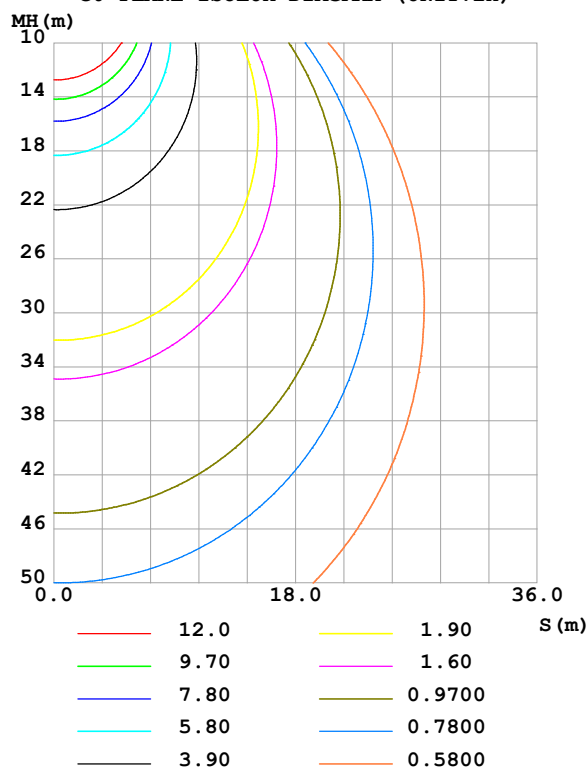
Test:U:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.97 lm/W			
MODEL		I _{max} (cd)	1951	S/MH(C0/180)	1.19
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6384.7	η UP,DN(C0-180)	0.0,52.1
NOMINAL FLUX(lm)	6384.73	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.9
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	1919	1916	1919	1896	1890	1881	1899	1902	0- 10	183.3	183.3	2.87,2.87
20	1805	1845	1890	1807	1751	1778	1849	1817	10- 20	526.3	709.6	11.1,11.1
30	1619	1730	1779	1679	1546	1638	1713	1693	20- 30	807.4	1517	23.8,23.8
40	1378	1541	1642	1484	1297	1428	1549	1489	30- 40	987.3	2504	39.2,39.2
50	1102	1336	1470	1278	1020	1205	1353	1266	40- 50	1058	3563	55.8,55.8
60	803.7	1100	1264	1047	727.5	956.6	1126	1015	50- 60	1015	4577	71.7,71.7
70	495.2	842.4	1040	797.5	430.3	694.0	861.8	743.8	60- 70	869.1	5446	85.3,85.3
80	197.2	549.8	760.7	503.5	152.4	381.7	482.8	415.8	70- 80	625.8	6072	95.1,95.1
90	10.88	244.2	481.8	190.0	12.09	48.09	103.9	61.71	80- 90	312.7	6385	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): 3031.4 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(130deg): 5035.5 lm

%lum = 78.9%

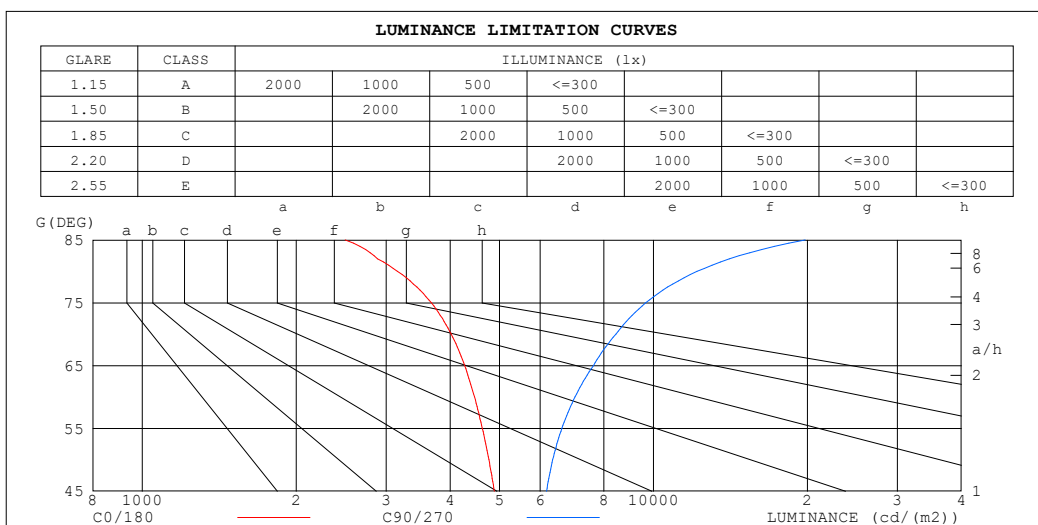
%lamp = 78.9%

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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2494	19800
80	3155	12169
75	3676	9662
70	4022	8444
65	4272	7631
60	4465	7022
55	4625	6620
50	4764	6352
45	4884	6178

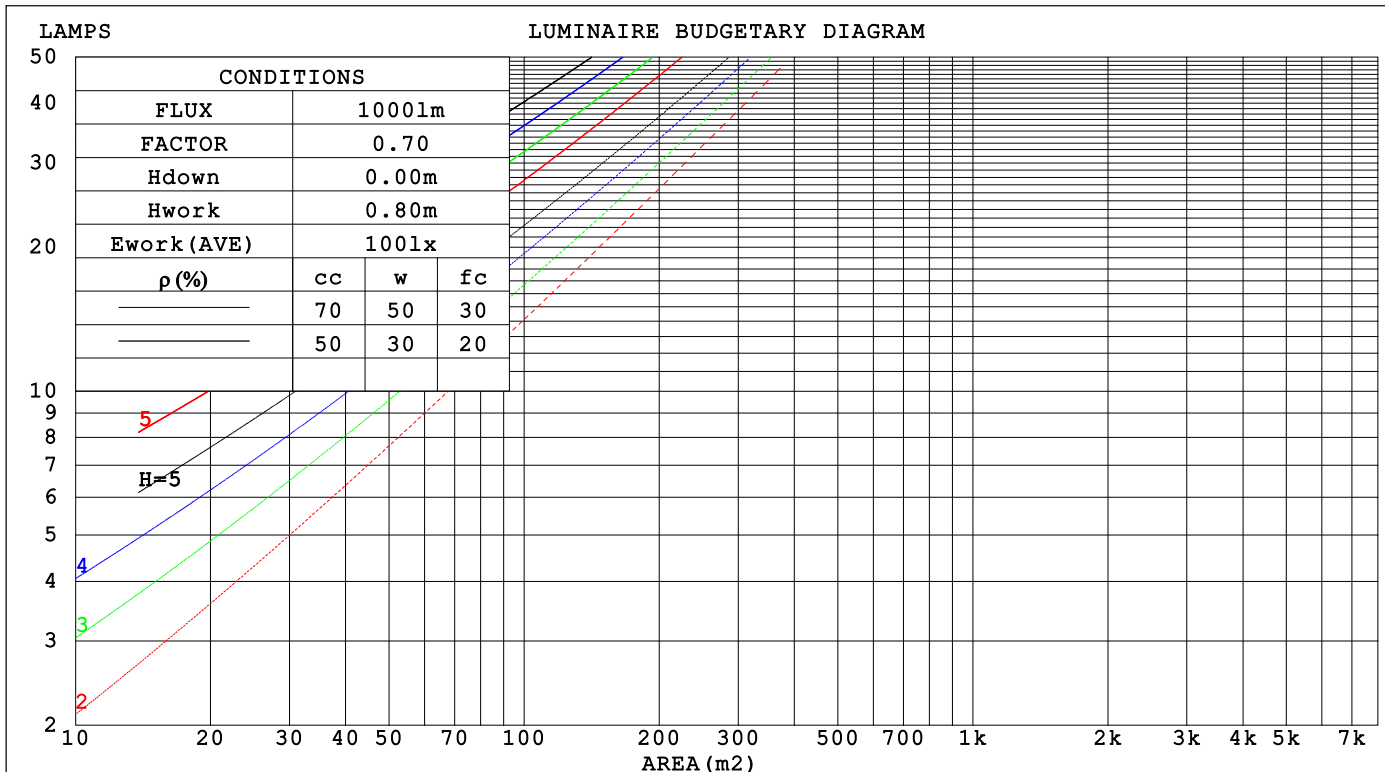
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-11-01

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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLN-V-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	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	.43	.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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 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	.359	.204	.065	.352	.201	.064	.339	.194	.062	.326	.188	.060	.315	.182	.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	.176	.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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 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	15.5	17.0	15.9	17.2	17.5
6H	12.4	13.7	12.7	14.0	14.3	16.8	18.2	17.2	18.5	18.8
8H	12.5	13.8	12.8	14.1	14.4	17.5	18.8	17.9	19.1	19.4
12H	12.5	13.8	12.9	14.1	14.4	18.3	19.5	18.6	19.8	20.2
4H 2H	11.1	12.5	11.4	12.7	13.0	12.4	13.9	12.7	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	17.7	17.0	18.1	18.4
6H	14.1	15.2	14.5	15.5	15.9	18.1	19.1	18.5	19.5	19.9
8H	14.3	15.3	14.7	15.6	16.0	18.9	19.9	19.3	20.3	20.6
12H	14.4	15.3	14.8	15.7	16.1	19.8	20.7	20.2	21.1	21.5
8H 4H	14.5	15.5	14.9	15.8	16.2	16.9	17.9	17.3	18.3	18.7
6H	15.4	16.2	15.8	16.6	17.0	18.7	19.5	19.2	19.9	20.4
8H	15.7	16.4	16.2	16.9	17.3	19.7	20.4	20.2	20.9	21.3
12H	15.9	16.6	16.4	17.0	17.5	20.9	21.5	21.3	21.9	22.4
12H 4H	14.7	15.6	15.1	16.0	16.4	17.0	17.9	17.4	18.2	18.7
6H	15.8	16.5	16.2	16.9	17.4	18.8	19.5	19.3	20.0	20.4
8H	16.2	16.9	16.7	17.3	17.8	19.9	20.5	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, 6385 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.4)
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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

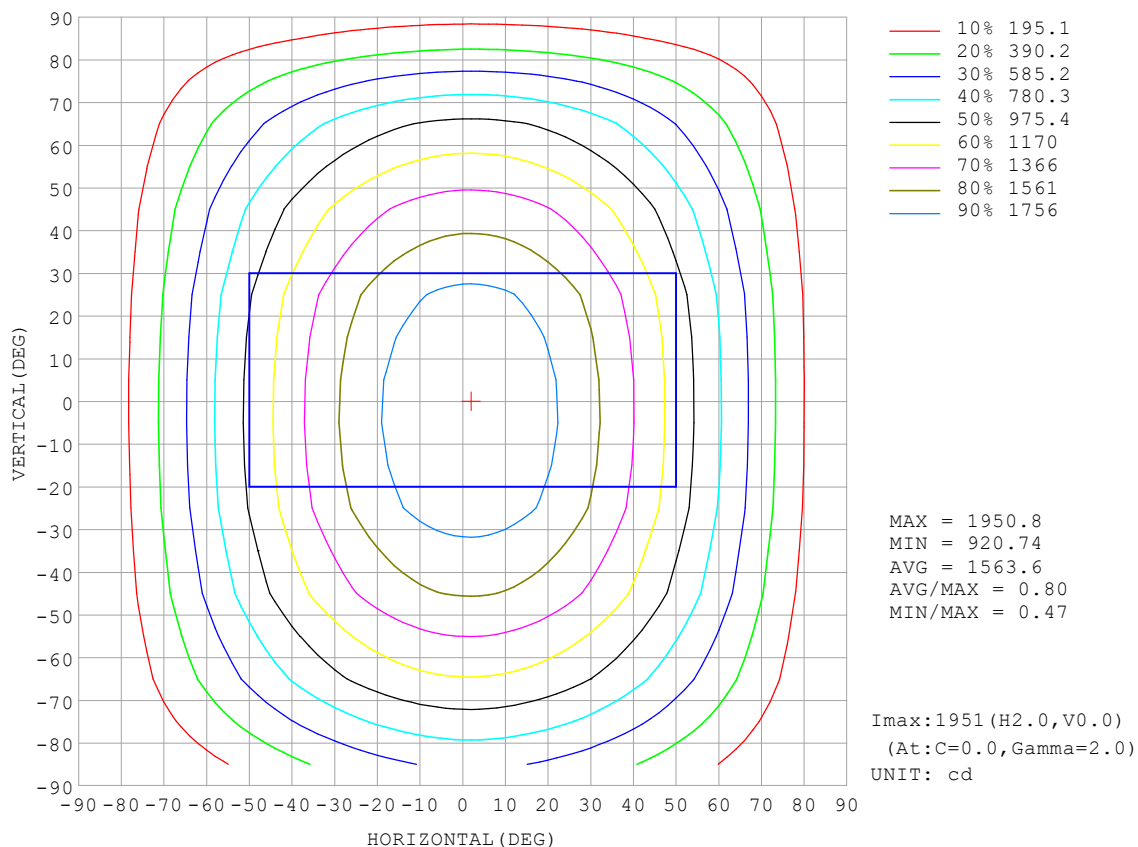
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	35	54	42	35	53	42	35	28
0.80	64	52	44	63	52	44	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	100	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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		

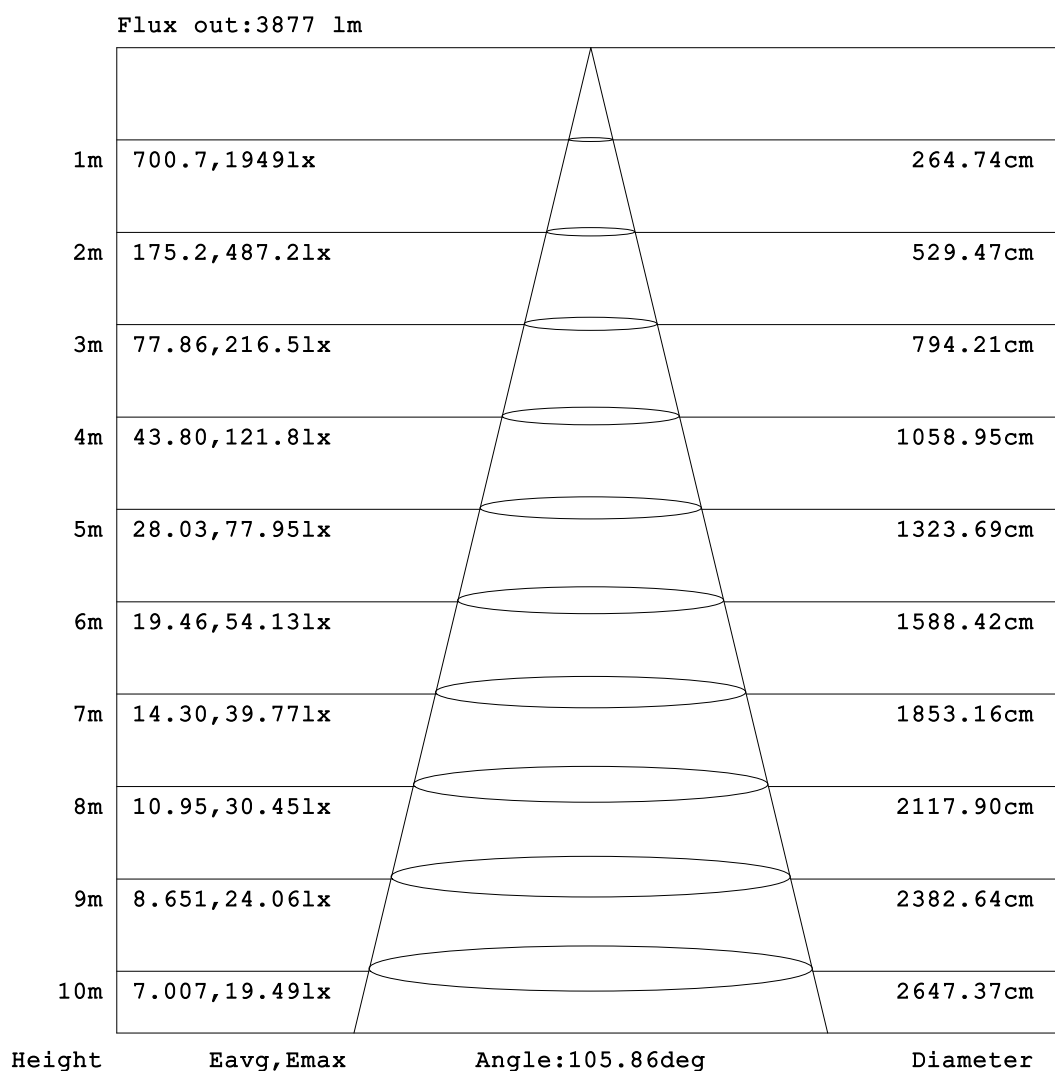


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-11-01

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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLN-V-4FT		
MFR.: EVERTIE		



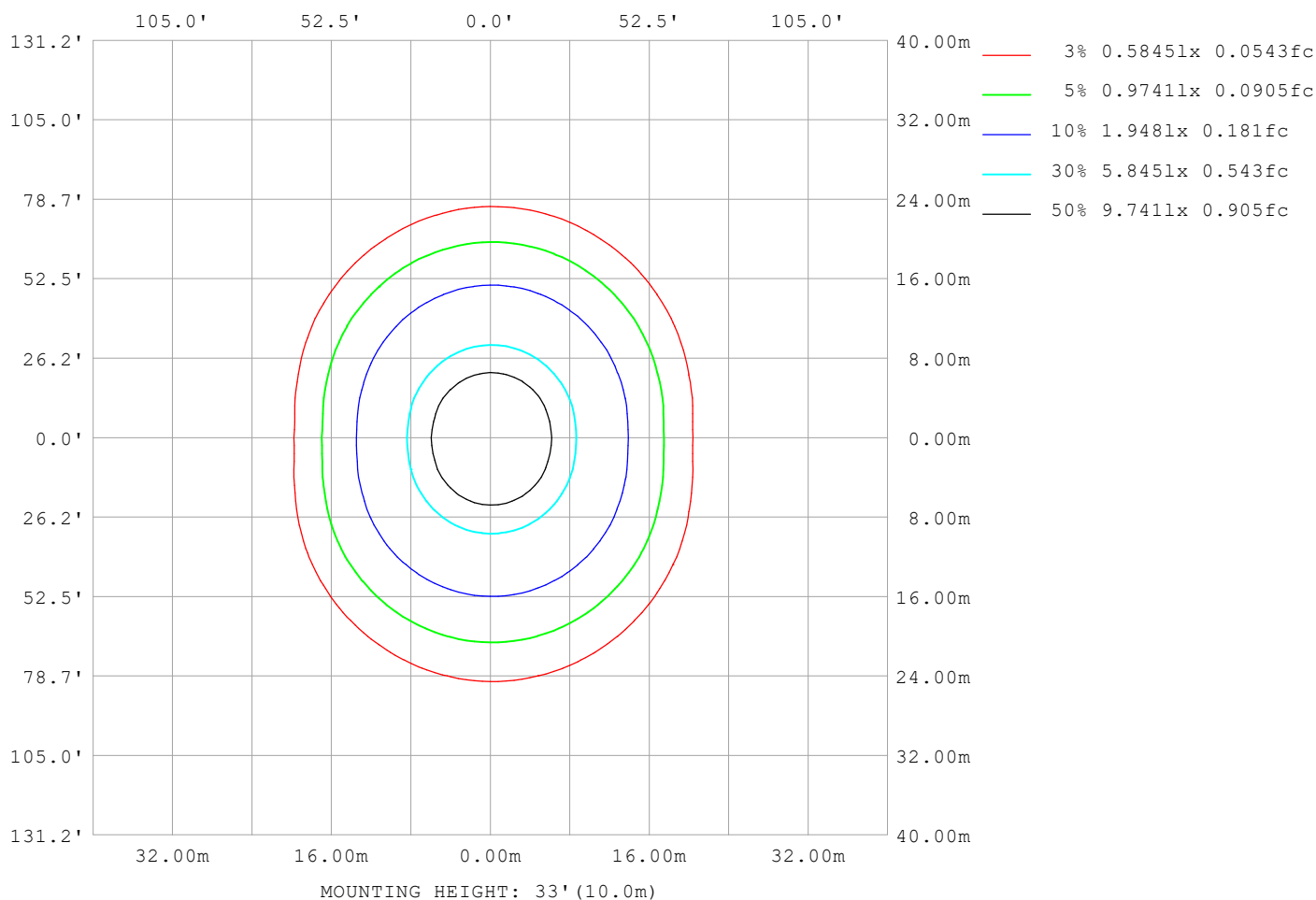
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 6384.73x1 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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 lm		
NAME: ETLSN-V-4FT		
MFR.: EVERTIE		

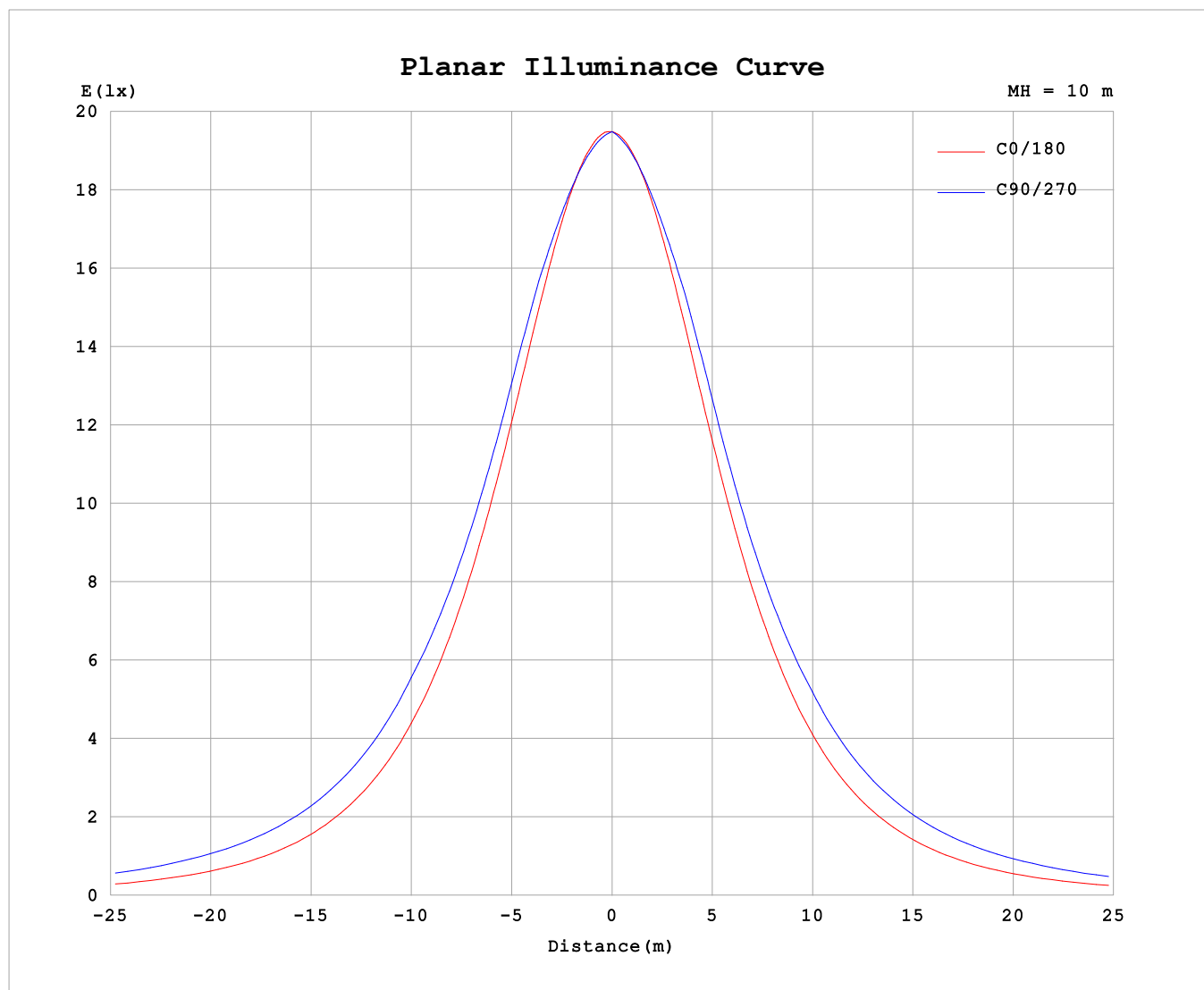
AvgL	cd/m2
L_0~180 (65) av	4038
L_0~180 (75) av	3373
L_0~180 (85) av	2023
L_90~270 (65) av	7145
L_90~270 (75) av	8439
L_90~270 (85) av	14575
L_45 (65) av	5897
L_45 (75) av	6761
L_45 (85) av	9479

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:

Test: U:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 6384.73x1 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:

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:120.56V I:0.3338A P:40.162W PF:0.9981 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6384.73x1 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: