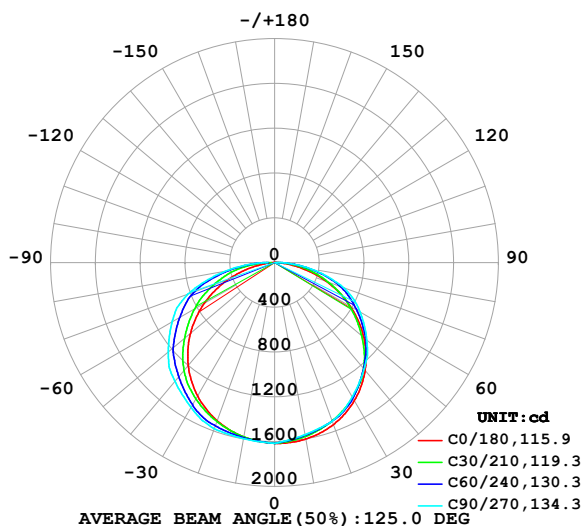


LUMINAIRE PHOTOMETRIC TEST REPORT

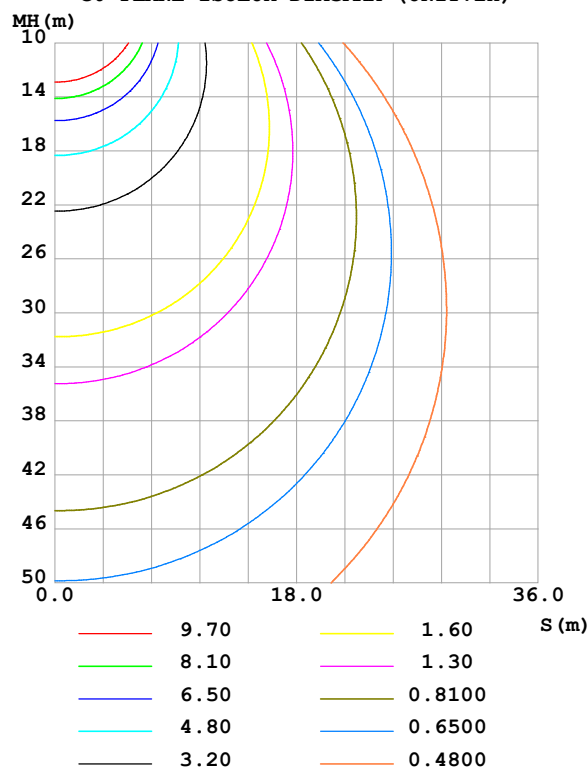
Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.16 lm/W			
MODEL		I _{max} (cd)	1616	S/MH(C0/180)	1.27
NOMINAL POWER(W)	34	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5288.1	η UP,DN(C0-180)	0.0,47.4
NOMINAL FLUX(lm)	5288.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.6
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:2025-08-09

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=1.0246]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1601	1571	1561	1558	1583	1584	1597	1597	0- 10	152.1	152.1	2.88,2.88
20	1539	1503	1508	1479	1504	1530	1579	1555	10- 20	439.4	591.5	11.2,11.2
30	1425	1402	1387	1368	1377	1445	1494	1479	20- 30	681.0	1272	24.1,24.1
40	1259	1231	1244	1192	1201	1291	1386	1331	30- 40	841.8	2114	40,40
50	1042	1033	1076	993.5	980.5	1114	1240	1153	40- 50	907.9	3022	57.2,57.2
60	781.7	808.8	881.8	775.7	723.9	905.5	1057	940.5	50- 60	867.4	3890	73.6,73.6
70	490.6	570.1	655.3	546.3	438.7	681.3	824.6	707.4	60- 70	731.0	4621	87.4,87.4
80	195.0	294.8	331.7	282.0	149.4	379.9	443.3	392.4	70- 80	489.7	5110	96.6,96.6
90	6.705	7.239	8.142	6.808	7.161	43.60	62.11	40.36	80- 90	177.8	5288	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): 2566.3 lm

%lum = 48.5%

%lamp = 48.5%

Conical surface Flux(130deg): 4277.8 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:2025-08-09

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=1.0246]
Remarks:

LUMINANCE LIMITATION CURVES

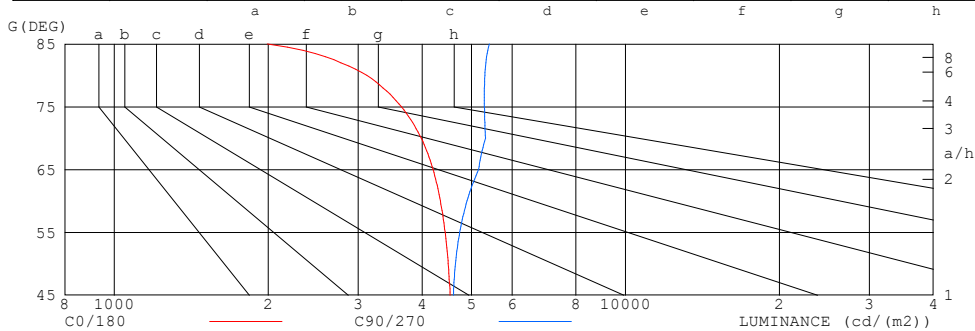
Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm

NAME: ETLTRK01D-24

MFR.: EVERTIE

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1992	5416
80	3119	5307
75	3645	5297
70	3985	5322
65	4202	5158
60	4343	4899
55	4437	4740
50	4501	4649
45	4540	4607

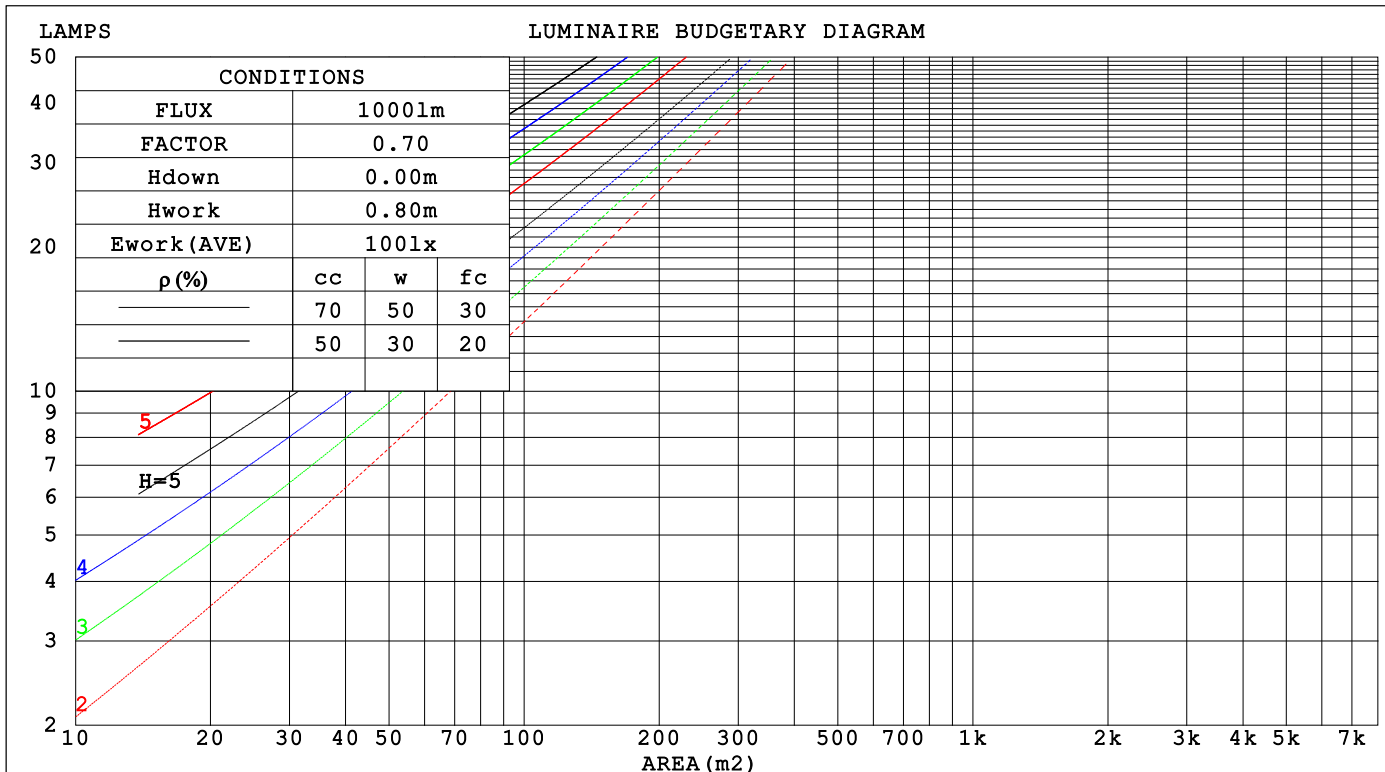
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-08-09

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=1.0246]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
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	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.83	.81														
2.0	.88	.81	.74	.86	.79	.74	.83	.77	.72	.79	.74	.70	.76	.72	.69	.66														
3.0	.77	.68	.61	.75	.67	.60	.72	.65	.59	.69	.63	.58	.67	.62	.57	.55														
4.0	.68	.58	.51	.66	.57	.51	.64	.56	.50	.61	.55	.49	.59	.53	.49	.46														
5.0	.60	.51	.44	.59	.50	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.40														
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.37	.49	.42	.37	.48	.41	.37	.34														
7.0	.49	.40	.33	.48	.39	.33	.46	.38	.33	.45	.38	.33	.43	.37	.32	.30														
8.0	.44	.36	.29	.44	.35	.29	.42	.35	.29	.41	.34	.29	.40	.33	.29	.27														
9.0	.41	.32	.26	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.24														
10.0	.37	.29	.24	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.23	.22														



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-08-09

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=1.0246]
Remarks:

WEC AND CCEC

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
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	.342	.194	.062	.335	.191	.061	.321	.184	.059	.309	.178	.057	.298	.172	.056		
2.0	.314	.172	.053	.308	.170	.052	.296	.165	.051	.285	.160	.050	.275	.156	.049		
3.0	.287	.153	.046	.281	.151	.045	.271	.147	.045	.261	.143	.044	.252	.140	.043		
4.0	.262	.136	.040	.257	.135	.040	.248	.131	.039	.239	.128	.039	.231	.126	.038		
5.0	.241	.123	.036	.236	.121	.035	.228	.119	.035	.220	.116	.035	.213	.114	.034		
6.0	.222	.111	.032	.218	.110	.032	.211	.108	.031	.204	.106	.031	.197	.104	.031		
7.0	.206	.102	.029	.202	.101	.029	.196	.099	.028	.189	.097	.028	.184	.095	.028		
8.0	.191	.094	.026	.188	.093	.026	.182	.091	.026	.177	.090	.026	.172	.088	.026		
9.0	.179	.086	.024	.176	.086	.024	.171	.084	.024	.166	.083	.024	.161	.082	.024		
10.0	.168	.080	.022	.165	.080	.022	.160	.079	.022	.156	.077	.022	.152	.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	.183	.156	.132	.156	.134	.113	.107	.092	.078	.061	.053	.046	.020	.017	.015		
2.0	.175	.132	.095	.150	.113	.082	.103	.078	.057	.059	.046	.034	.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	.034	.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	.125	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005		
7.0	.138	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004		
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.045	.025	.010	.015	.008	.003		
9.0	.125	.065	.025	.108	.056	.021	.075	.040	.015	.043	.023	.009	.014	.008	.003		
10.0	.119	.061	.022	.103	.053	.019	.071	.037	.014	.042	.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:2025-08-09

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=1.0246]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm										
NAME: ETLTRK01D-24										
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	10.1	11.7	10.4	11.9	12.2	10.8	12.4	11.1	12.6	12.8
3H	11.7	13.2	12.0	13.4	13.6	12.9	14.4	13.2	14.6	14.9
4H	12.3	13.7	12.6	13.9	14.2	13.8	15.2	14.1	15.5	15.8
6H	12.7	14.0	13.0	14.3	14.6	14.6	15.9	14.9	16.2	16.4
8H	12.8	14.1	13.1	14.3	14.6	14.8	16.1	15.2	16.4	16.7
12H	12.8	14.0	13.2	14.3	14.6	15.0	16.3	15.4	16.6	16.9
4H 2H	10.9	12.3	11.2	12.6	12.8	11.4	12.8	11.8	13.1	13.4
3H	12.6	13.9	13.0	14.2	14.5	13.8	15.0	14.1	15.3	15.6
4H	13.4	14.5	13.7	14.8	15.2	14.8	16.0	15.2	16.3	16.6
6H	13.9	14.9	14.3	15.3	15.6	15.7	16.7	16.1	17.1	17.4
8H	14.0	15.0	14.4	15.3	15.7	16.1	17.0	16.5	17.4	17.8
12H	14.1	15.0	14.5	15.4	15.8	16.3	17.2	16.8	17.6	18.0
8H 4H	13.9	14.8	14.3	15.2	15.6	15.1	16.1	15.5	16.4	16.8
6H	14.6	15.4	15.0	15.8	16.2	16.2	17.0	16.6	17.4	17.8
8H	14.8	15.6	15.3	16.0	16.4	16.7	17.4	17.1	17.8	18.3
12H	15.0	15.6	15.5	16.1	16.5	17.1	17.7	17.6	18.2	18.6
12H 4H	14.0	14.8	14.4	15.2	15.6	15.1	16.0	15.6	16.4	16.8
6H	14.8	15.5	15.2	15.9	16.4	16.3	17.0	16.7	17.4	17.9
8H	15.1	15.7	15.6	16.1	16.6	16.8	17.4	17.3	17.9	18.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				

CIE Pub.117, 5288 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.8)
Area: 0.36 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-08-09

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=1.0246]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

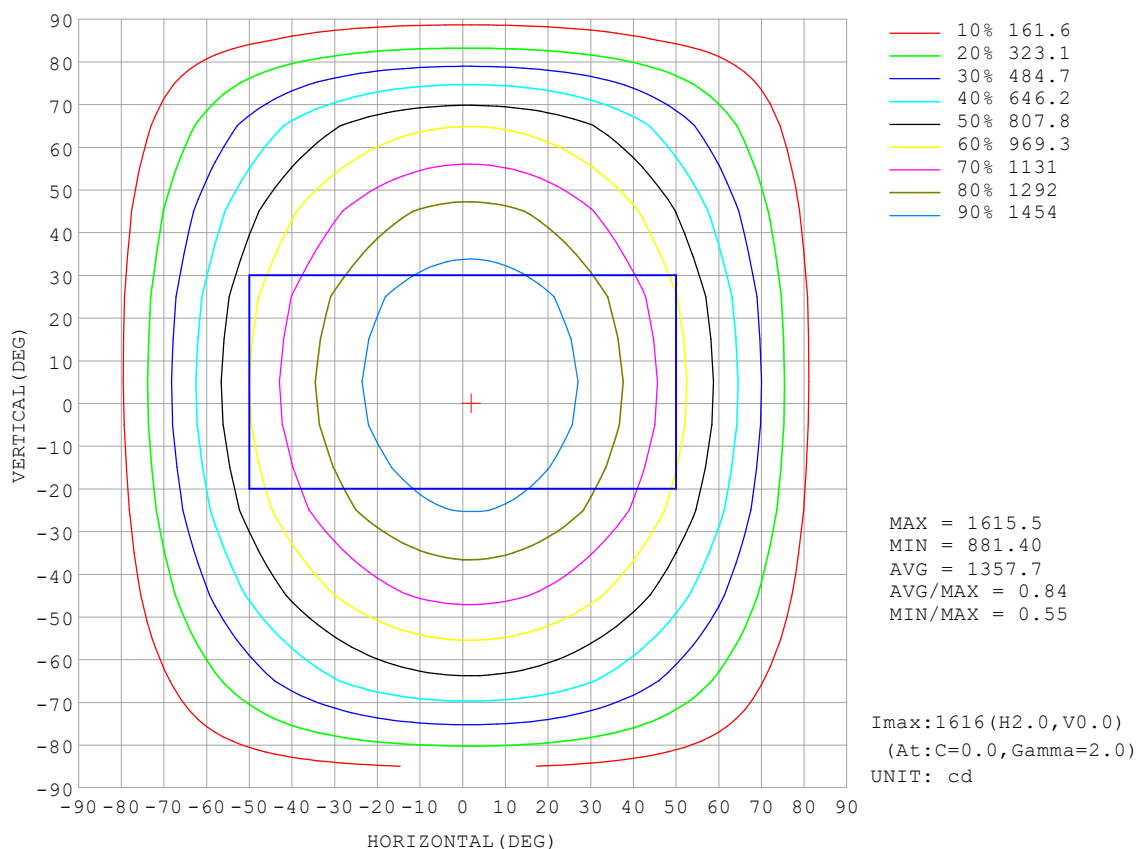
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	35	29
0.80	65	53	45	64	52	45	62	51	44	37
1.00	73	61	54	72	61	53	70	62	53	45
1.25	80	69	62	79	68	61	76	67	60	53
1.50	86	75	67	84	74	67	81	72	66	58
2.00	93	83	76	91	82	76	87	80	74	66
2.50	97	88	82	95	87	81	91	84	79	70
3.00	100	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	98	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:2025-08-09

$V(B)$ 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=1.0246]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		



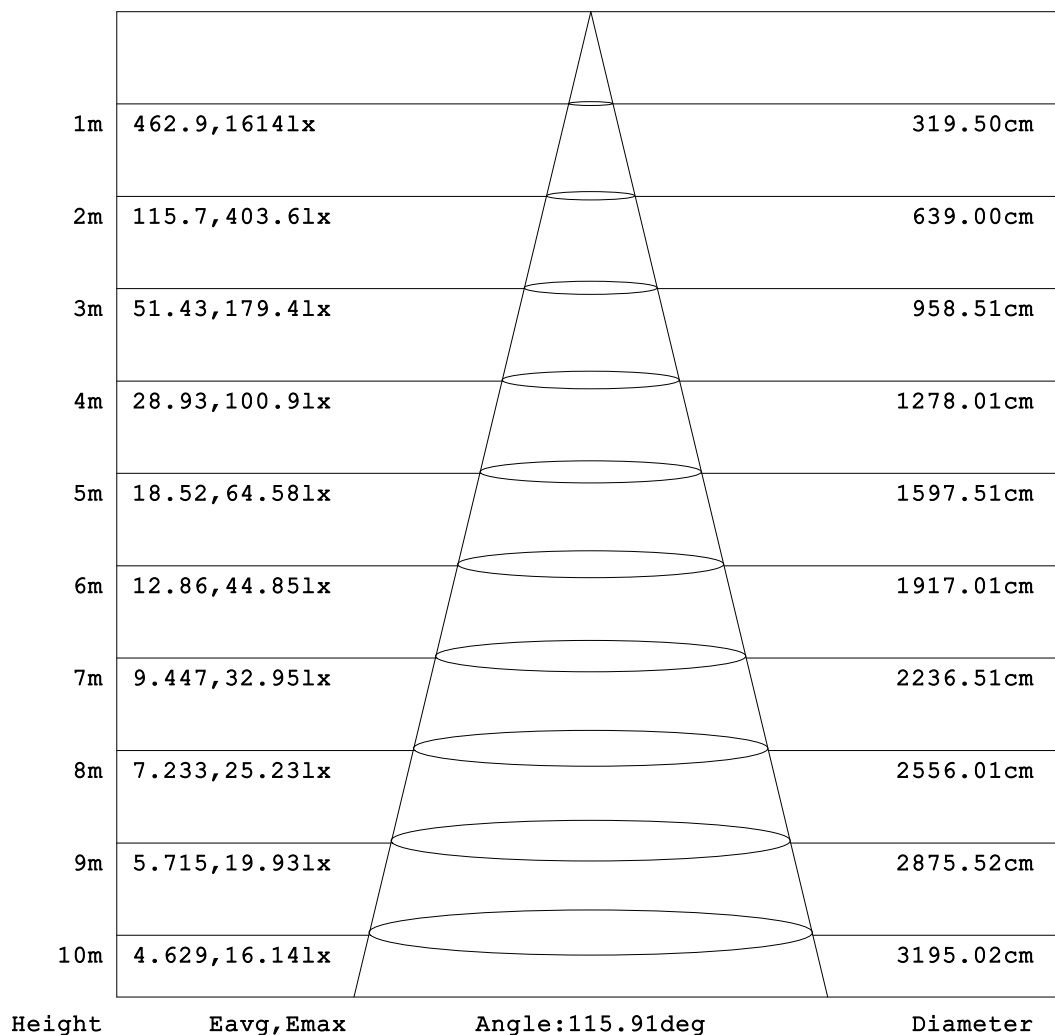
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-08-09

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=1.0246]
Remarks:

AAI Figure

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

Flux out:3724 lm



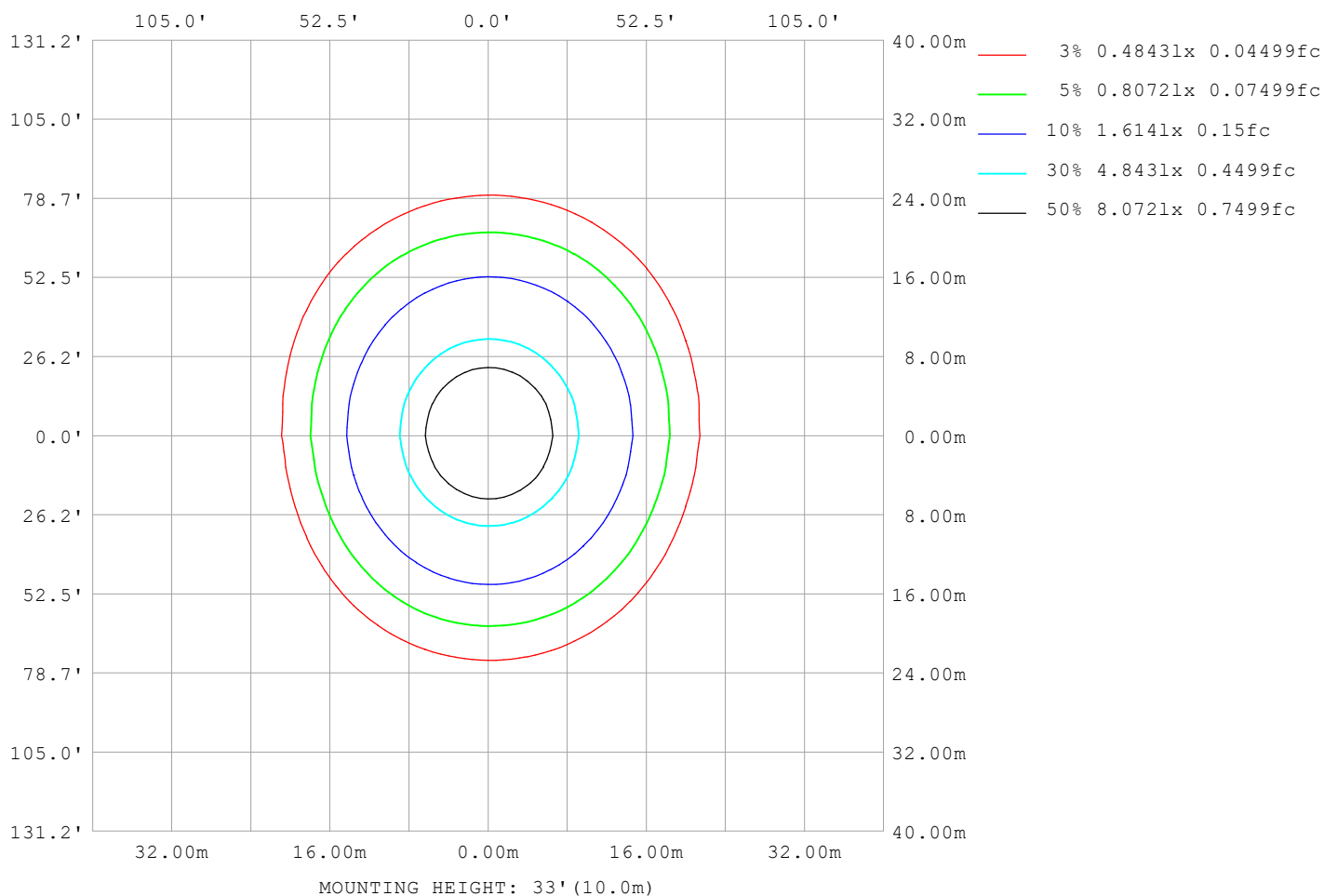
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QUYEN
Test Date:2025-08-09

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=1.0246]
Remarks:

ISOLUX DIAGRAM

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-08-09

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=1.0246]
Remarks:

LED Avg.L Report

Test:U:121.35V I:0.2746A P:33.225W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5288.1x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

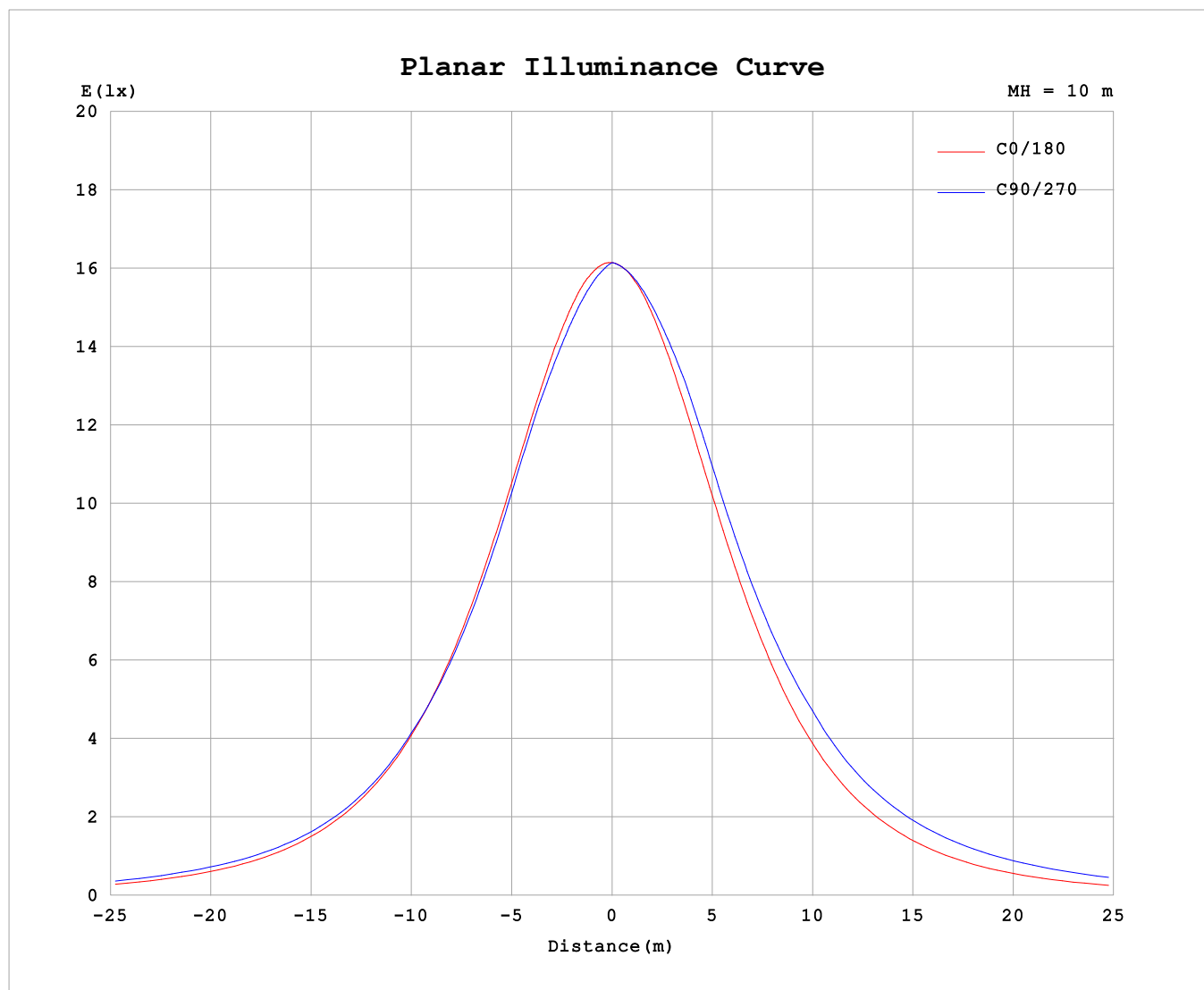
AvgL	cd/m2
L_0~180 (65) av	4018
L_0~180 (75) av	3393
L_0~180 (85) av	1480
L_90~270 (65) av	5752
L_90~270 (75) av	6050
L_90~270 (85) av	6735
L_45 (65) av	4868
L_45 (75) av	5332
L_45 (85) av	5719

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:2025-08-09

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=1.0246]
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:2025-08-09

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=1.0246]
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=1.0246]
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=1.0246]
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=1.0246]
Remarks:

MFR.: EVERTIE

UNIT: cd

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=1.0246]
Remarks: