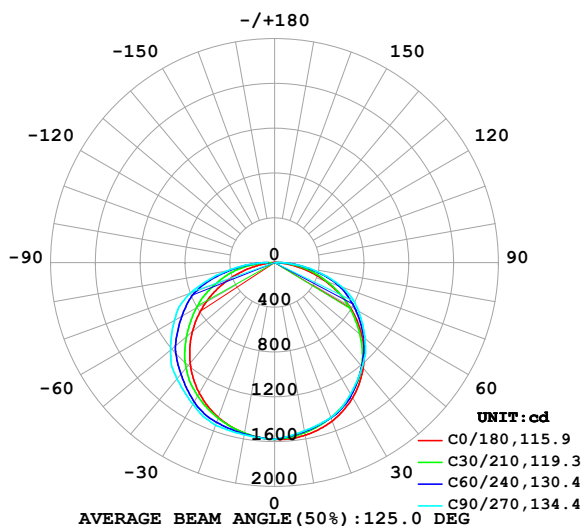


LUMINAIRE PHOTOMETRIC TEST REPORT

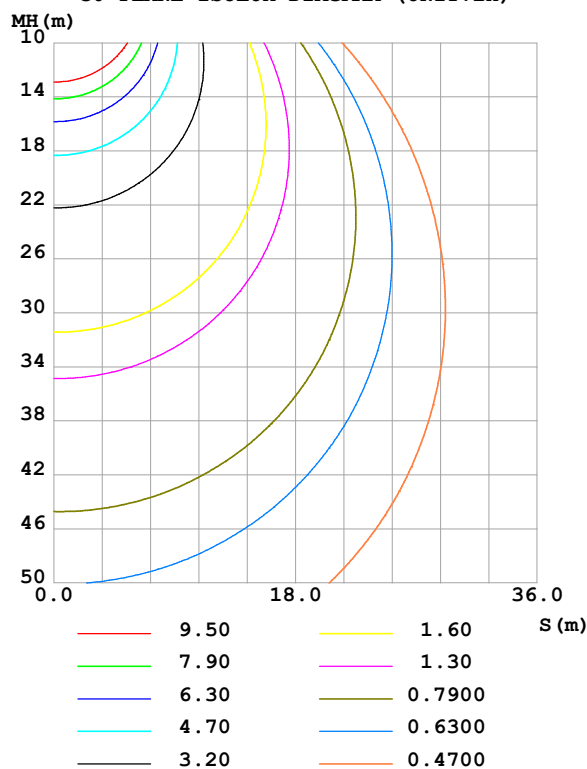
Test:U:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.37 lm/W			
MODEL		Imax (cd)	1581	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)	5176.4	η UP,DN(C0-180)	0.0,47.4
NOMINAL FLUX(lm)	5176.43	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 °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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1567	1537	1527	1525	1548	1550	1562	1562	0- 10	148.8	148.8	2.88,2.88
20	1506	1472	1474	1447	1472	1497	1545	1521	10- 20	429.9	578.7	11.2,11.2
30	1395	1372	1357	1337	1347	1413	1462	1447	20- 30	666.3	1245	24.1,24.1
40	1231	1205	1218	1166	1175	1263	1356	1302	30- 40	823.6	2069	40,40
50	1019	1012	1054	973.0	959.9	1089	1213	1128	40- 50	888.4	2957	57.1,57.1
60	765.2	793.1	865.2	760.0	707.6	885.1	1034	920.0	50- 60	849.0	3806	73.5,73.5
70	480.6	560.4	644.2	536.7	428.9	665.7	806.1	691.6	60- 70	715.9	4522	87.4,87.4
80	191.0	290.0	326.1	277.2	146.5	371.4	434.1	384.2	70- 80	479.9	5002	96.6,96.6
90	6.595	7.080	7.965	6.679	7.051	43.33	62.12	40.25	80- 90	174.5	5176	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): 2510.9 lm

%lum = 48.5%

%lamp = 48.5%

Conical surface Flux(130deg): 4186.2 lm

%lum = 80.9%

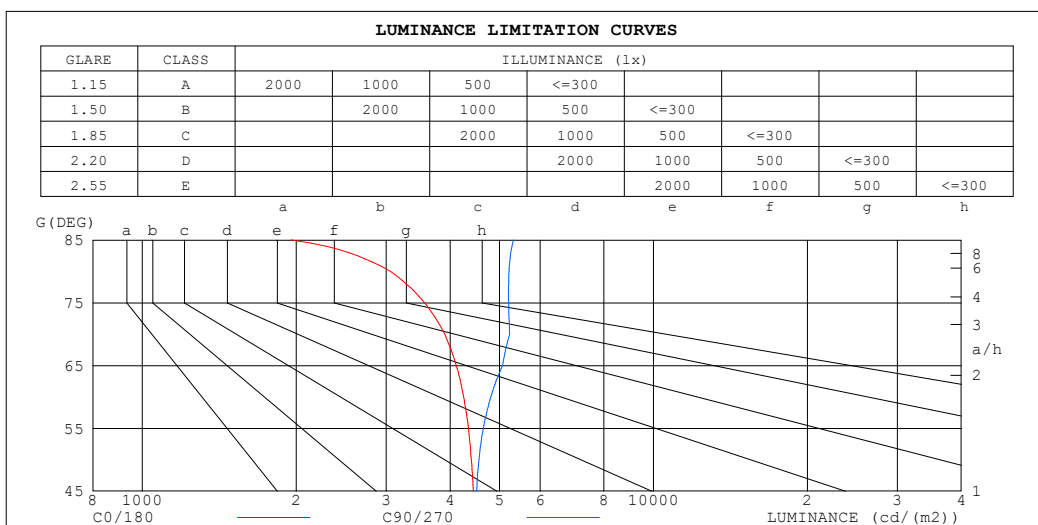
%lamp = 80.9%

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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1955	5324
80	3056	5216
75	3568	5207
70	3903	5232
65	4114	5067
60	4251	4807
55	4343	4647
50	4402	4554
45	4442	4510

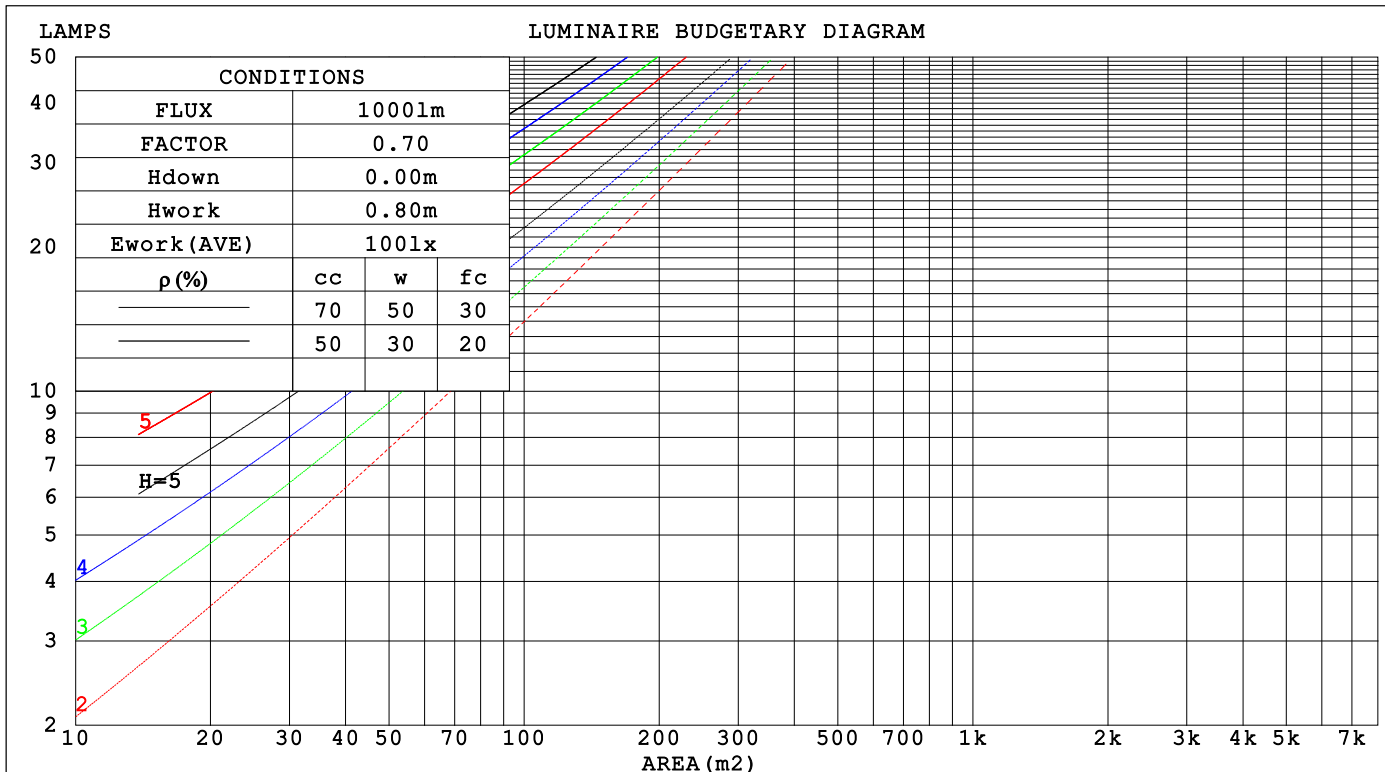
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-08-09

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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 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															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	1.02	.97	.93	.90	.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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 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	.195	.062	.335	.191	.061	.321	.184	.059	.309	.178	.057	.298	.173	.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	.132	.039	.239	.129	.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	.087	.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	.046	.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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 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	10.2	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	13.7	12.9	14.4	13.2	14.7	14.9
4H	12.3	13.7	12.6	14.0	14.2	13.8	15.3	14.2	15.5	15.8
6H	12.7	14.0	13.0	14.3	14.6	14.6	15.9	14.9	16.2	16.5
8H	12.8	14.1	13.1	14.3	14.6	14.9	16.1	15.2	16.4	16.7
12H	12.8	14.0	13.2	14.3	14.7	15.1	16.3	15.4	16.6	16.9
4H 2H	10.9	12.3	11.2	12.6	12.8	11.5	12.9	11.8	13.1	13.4
3H	12.7	13.9	13.0	14.2	14.5	13.8	15.0	14.1	15.3	15.6
4H	13.4	14.5	13.8	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	16.8	16.1	17.1	17.5
8H	14.0	15.0	14.5	15.4	15.7	16.1	17.0	16.5	17.4	17.8
12H	14.1	15.0	14.5	15.4	15.8	16.4	17.2	16.8	17.6	18.0
8H 4H	13.9	14.8	14.3	15.2	15.6	15.1	16.1	15.6	16.5	16.8
6H	14.6	15.4	15.1	15.8	16.2	16.2	17.0	16.7	17.4	17.9
8H	14.9	15.6	15.3	16.0	16.5	16.7	17.4	17.2	17.8	18.3
12H	15.0	15.6	15.5	16.1	16.6	17.1	17.7	17.6	18.2	18.7
12H 4H	14.0	14.9	14.4	15.2	15.6	15.2	16.0	15.6	16.4	16.8
6H	14.8	15.5	15.2	15.9	16.4	16.3	17.0	16.8	17.4	17.9
8H	15.1	15.7	15.6	16.2	16.6	16.8	17.5	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, 5176 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:2025-08-09

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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

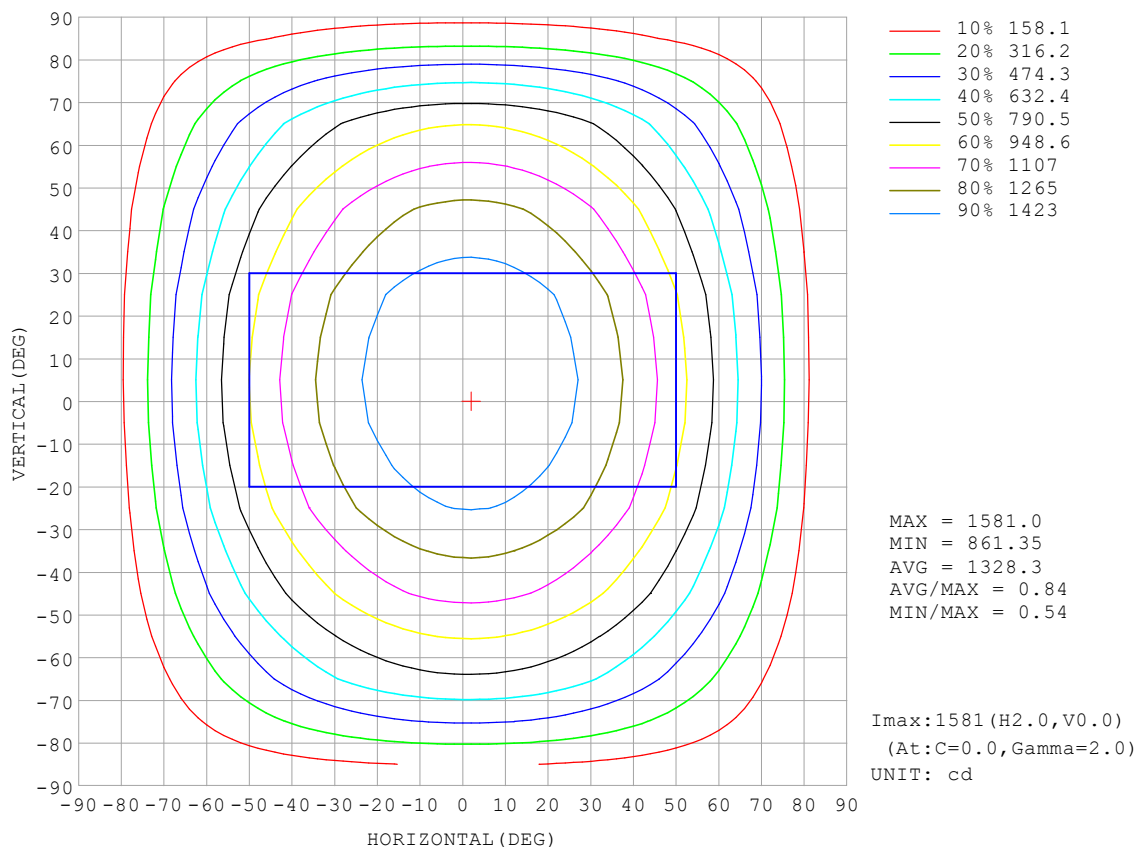
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	35	29
0.80	65	53	45	64	52	45	62	51	44	37
1.00	73	61	54	72	61	53	70	62	53	45
1.25	80	69	61	79	68	61	76	67	60	53
1.50	85	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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

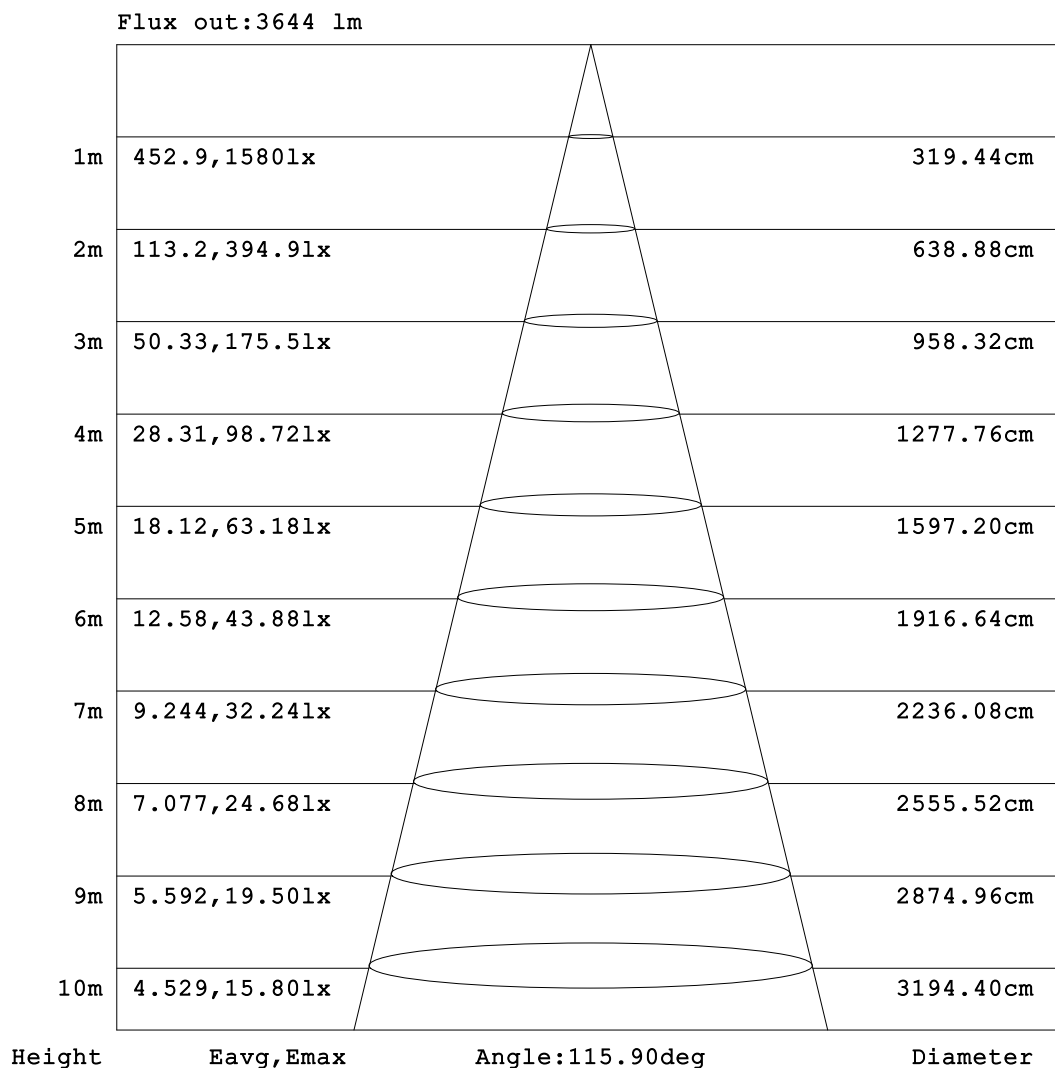


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-08-09

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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		



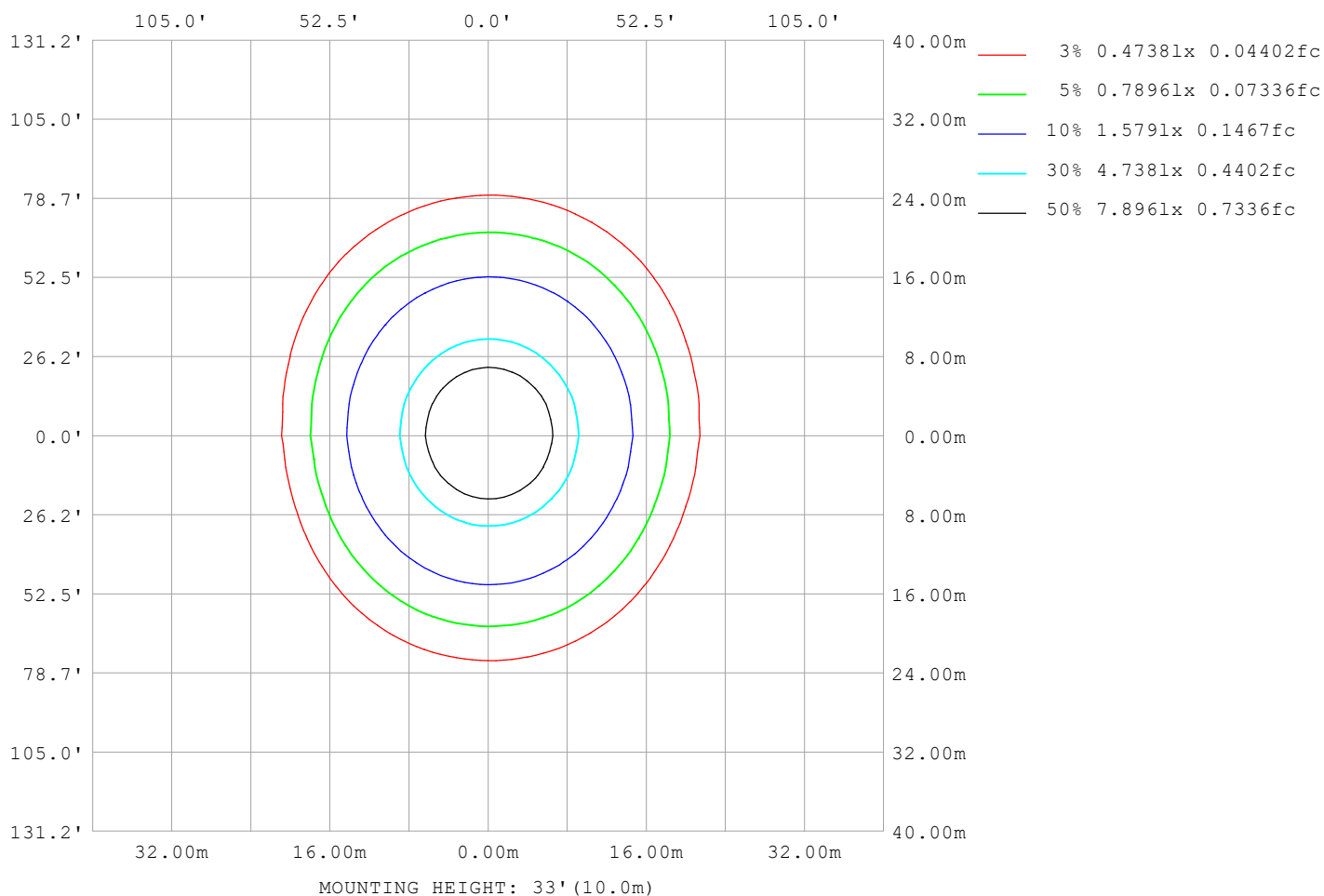
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 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:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

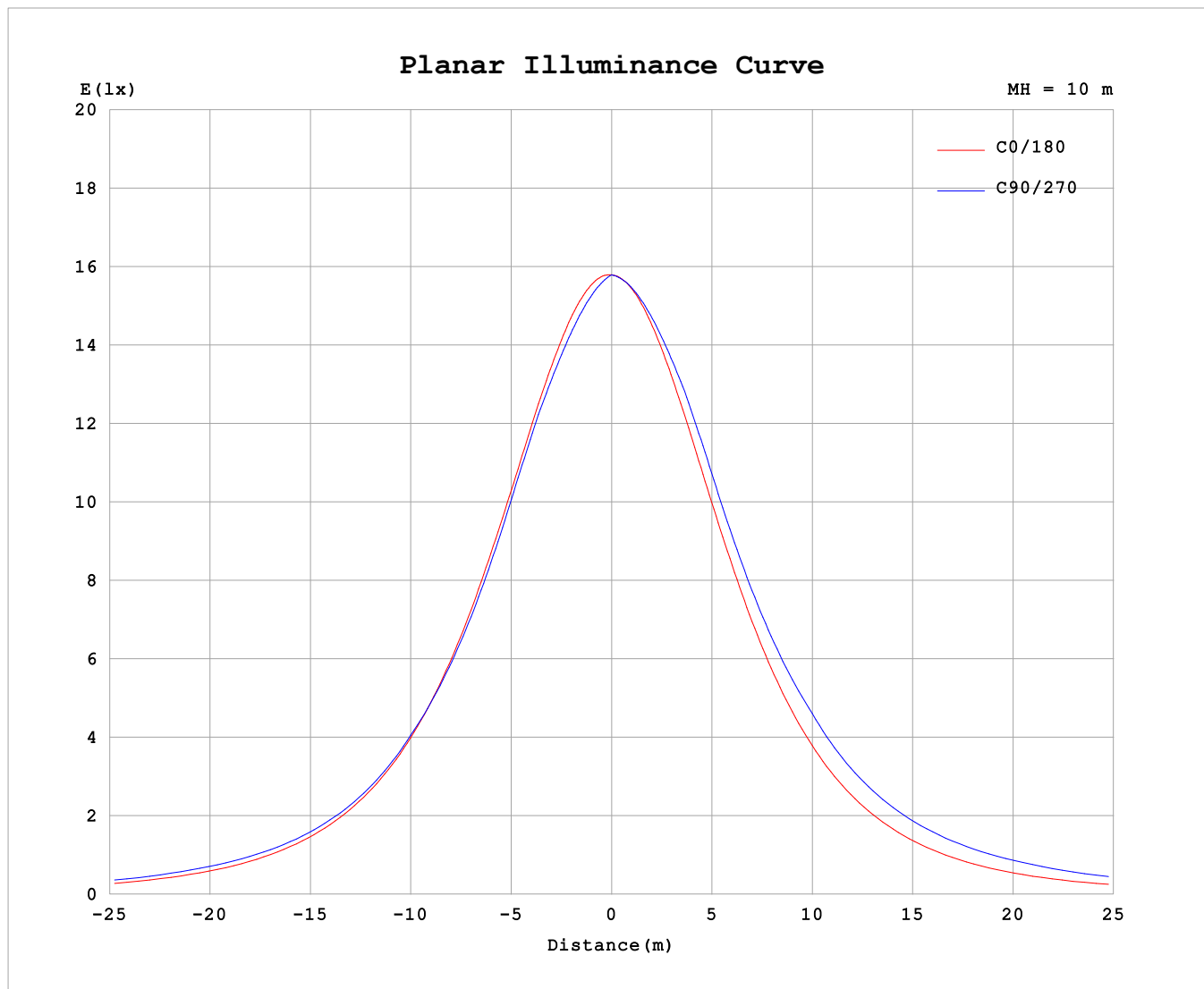
AvgL	cd/m2
L_0~180 (65) av	3934
L_0~180 (75) av	3321
L_0~180 (85) av	1453
L_90~270 (65) av	5636
L_90~270 (75) av	5931
L_90~270 (85) av	6616
L_45 (65) av	4766
L_45 (75) av	5227
L_45 (85) av	5613

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:

Test:U:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME:	ETLTRK01D-24	
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=1.0246]
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:

Test:U:121.33V I:0.2808A P:33.973W PF:0.9970 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5176.43x1 lm		
NAME:	ETLTRK01D-24	
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=1.0246]
Remarks:
```