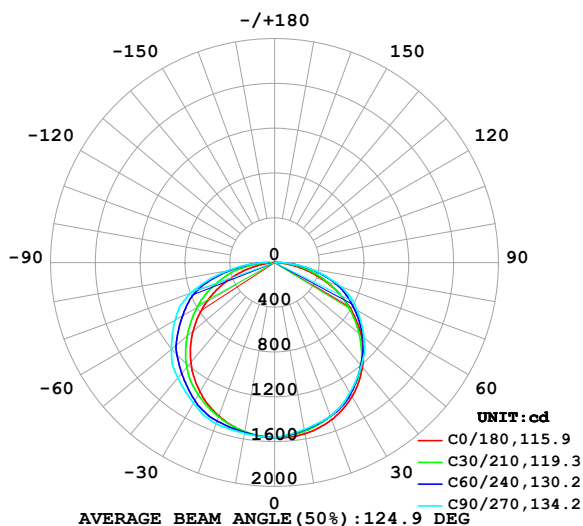


LUMINAIRE PHOTOMETRIC TEST REPORT

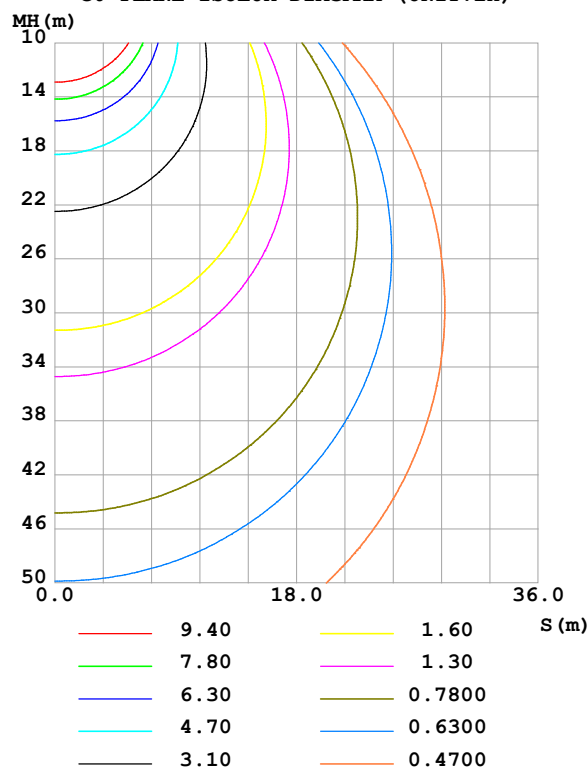
Test:U:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.66 lm/W			
MODEL		Imax (cd)	1567	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)	5128.3	η UP,DN(C0-180)	0.0,47.3
NOMINAL FLUX(lm)	5128.35	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.7
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	1553	1524	1514	1511	1534	1536	1549	1549	0- 10	147.5	147.5	2.88,2.88
20	1494	1459	1461	1434	1458	1485	1532	1509	10- 20	426.2	573.7	11.2,11.2
30	1383	1360	1344	1325	1335	1401	1450	1435	20- 30	660.6	1234	24.1,24.1
40	1221	1194	1205	1155	1164	1253	1345	1292	30- 40	816.5	2051	40,40
50	1011	1002	1042	962.8	950.8	1081	1204	1120	40- 50	880.7	2932	57.2,57.2
60	758.6	783.4	852.9	750.6	701.5	878.8	1026	913.4	50- 60	841.2	3773	73.6,73.6
70	476.1	551.8	633.3	528.2	425.3	661.2	800.4	686.8	60- 70	708.7	4482	87.4,87.4
80	188.9	285.1	320.6	272.4	145.3	368.5	430.3	381.2	70- 80	474.6	4956	96.6,96.6
90	6.465	7.018	7.886	6.595	6.916	42.30	60.28	39.18	80- 90	172.3	5128	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): 2489.3 lm

%lum = 48.5%

%lamp = 48.5%

Conical surface Flux(130deg): 4149.1 lm

%lum = 80.9%

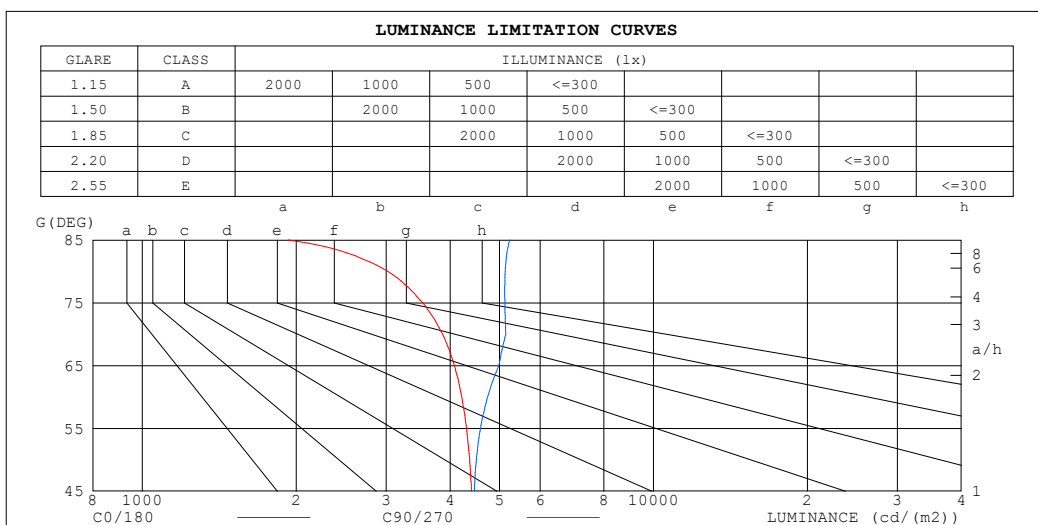
%lamp = 80.9%

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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1930	5234
80	3022	5128
75	3534	5118
70	3867	5143
65	4077	4986
60	4214	4738
55	4307	4588
50	4368	4501
45	4406	4462

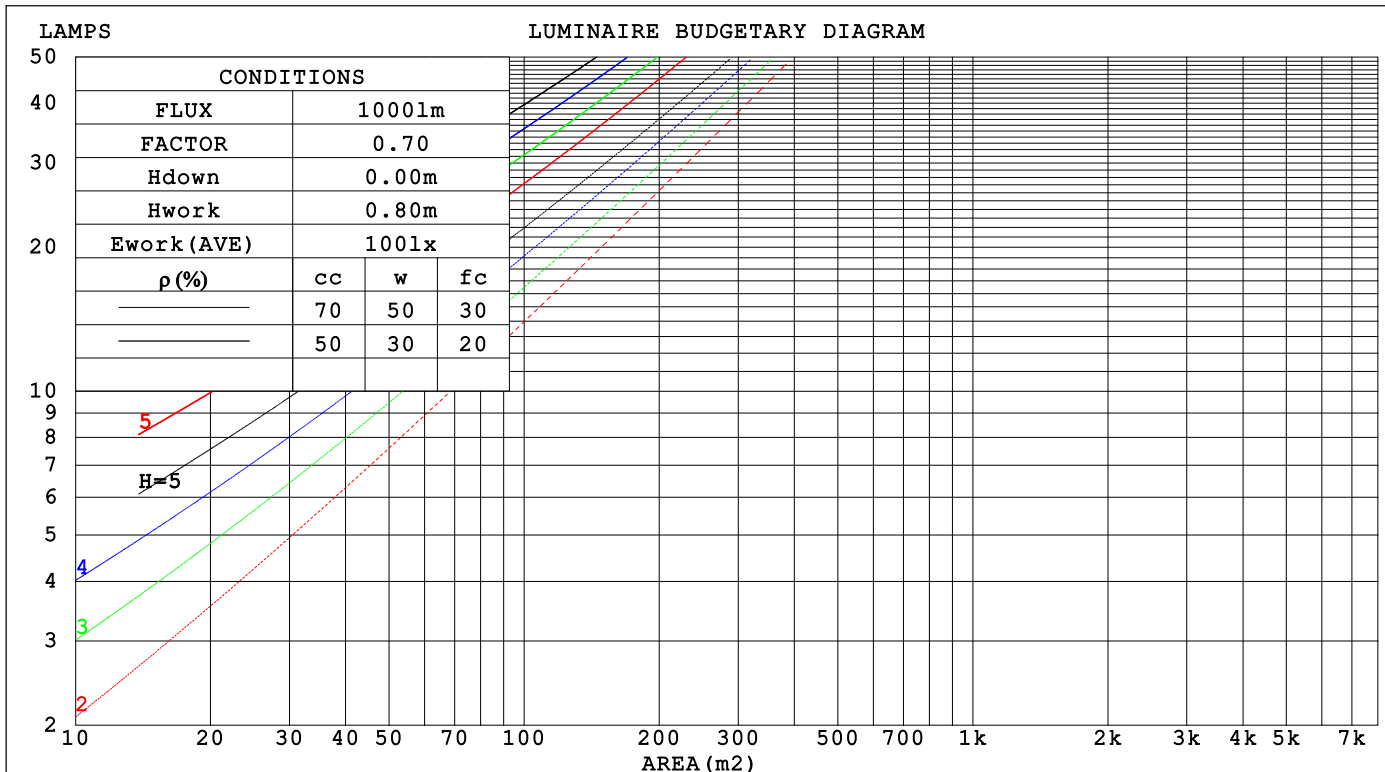
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:QUYEN
Test Date:2025-08-09

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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 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	.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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 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	.297	.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	.139	.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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 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	15.7
6H	12.7	14.0	13.0	14.3	14.6	14.5	15.9	14.9	16.1	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	11.7	13.1	13.4
3H	12.6	13.9	13.0	14.2	14.5	13.7	15.0	14.1	15.3	15.6
4H	13.4	14.5	13.7	14.8	15.2	14.8	15.9	15.2	16.3	16.6
6H	13.9	14.9	14.3	15.2	15.6	15.7	16.7	16.1	17.1	17.4
8H	14.0	15.0	14.4	15.3	15.7	16.0	17.0	16.5	17.4	17.8
12H	14.1	15.0	14.5	15.3	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	16.0	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	15.5	15.3	16.0	16.4	16.7	17.4	17.1	17.8	18.3
12H	15.0	15.6	15.5	16.0	16.5	17.1	17.7	17.5	18.1	18.6
12H 4H	14.0	14.8	14.4	15.2	15.6	15.1	16.0	15.5	16.4	16.8
6H	14.8	15.5	15.2	15.9	16.3	16.3	17.0	16.7	17.4	17.9
8H	15.1	15.7	15.5	16.1	16.6	16.8	17.4	17.3	17.9	18.3
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, 5128 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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

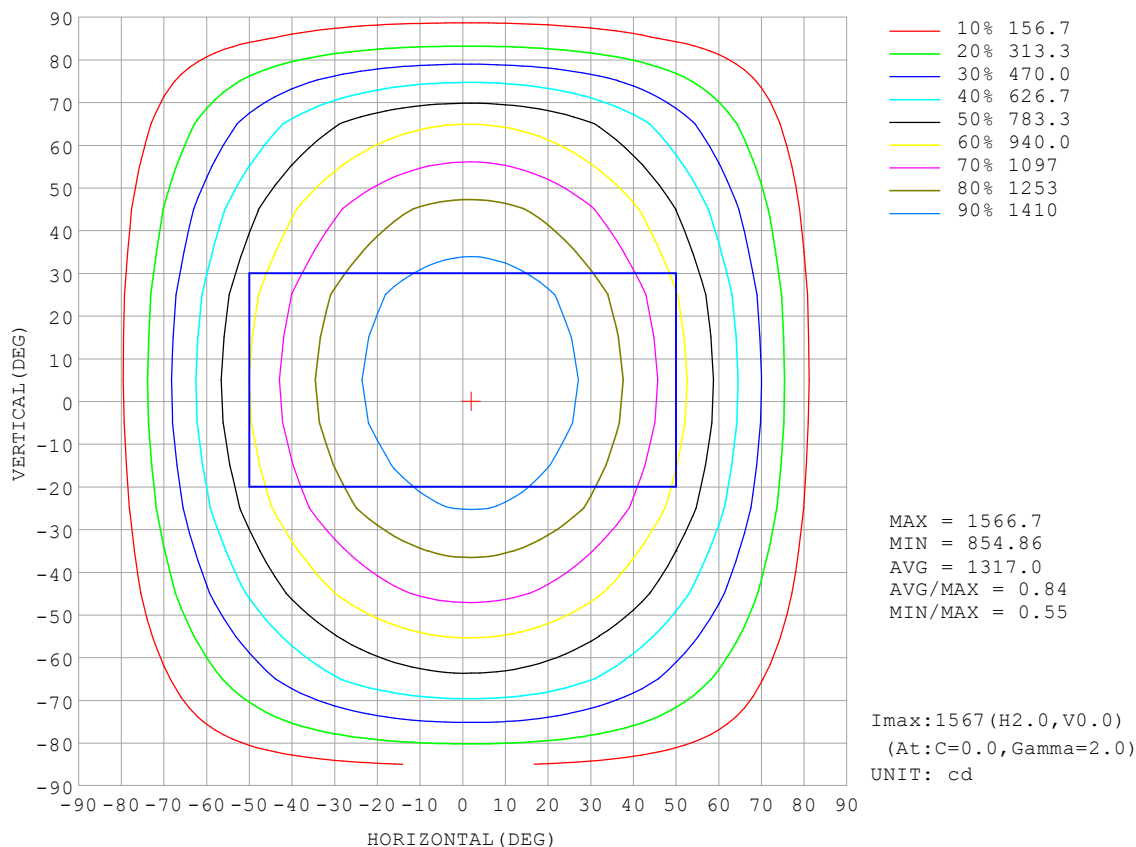
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	35	29
0.80	65	53	45	64	52	45	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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		



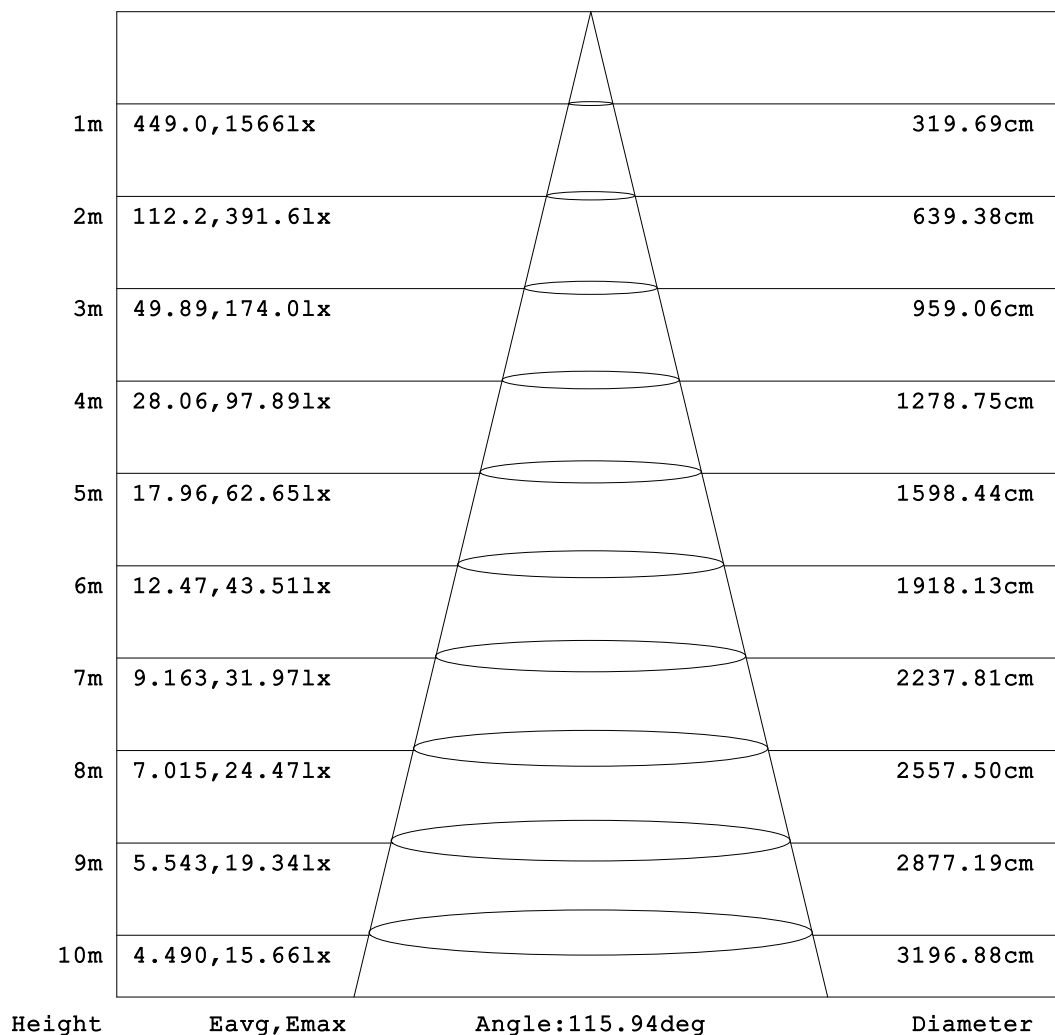
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QUYEN
Test Date:2025-08-09

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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

Flux out:3612 lm



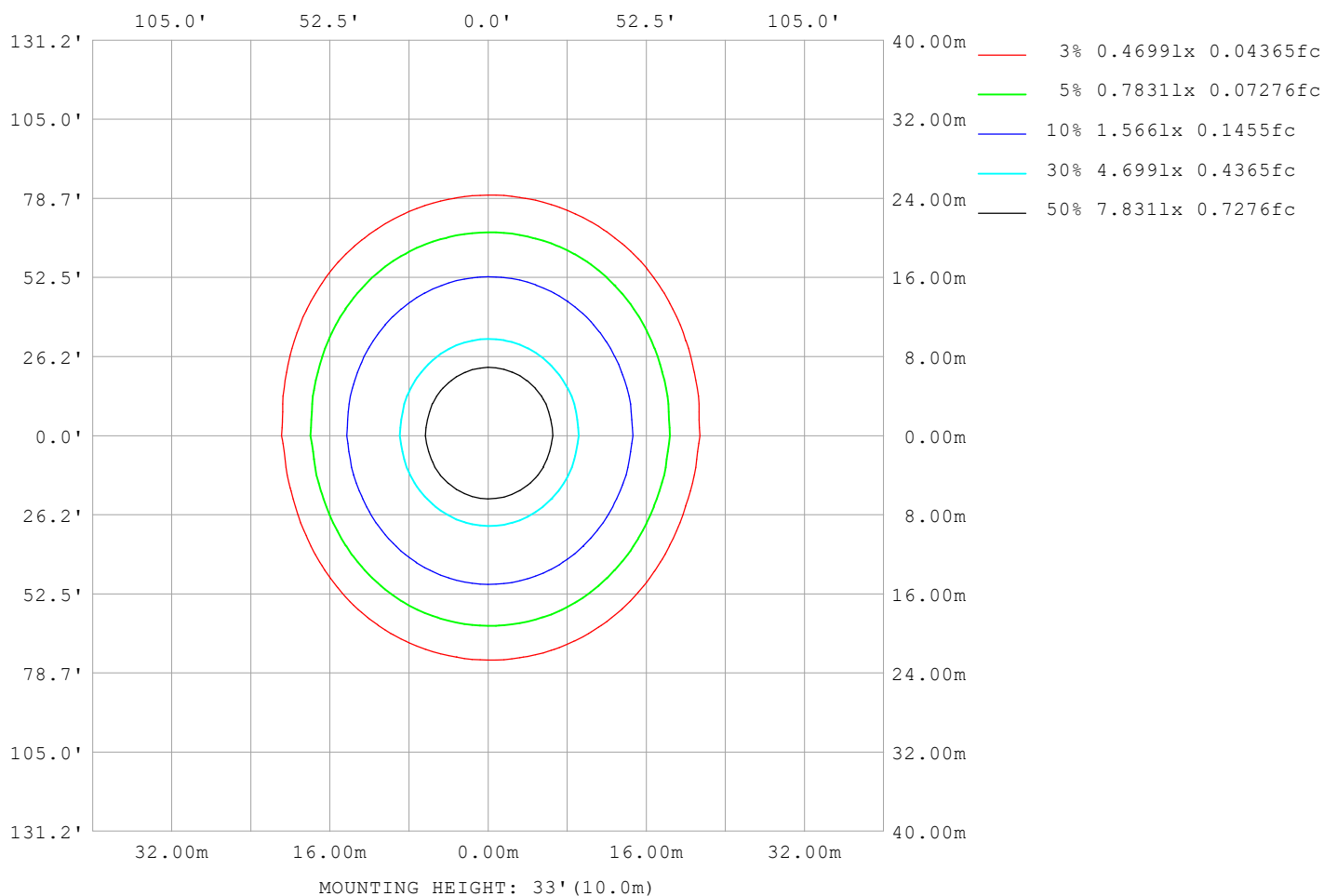
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 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:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 lm		
NAME: ETLTRK01D-24		
MFR.: EVERTIE		

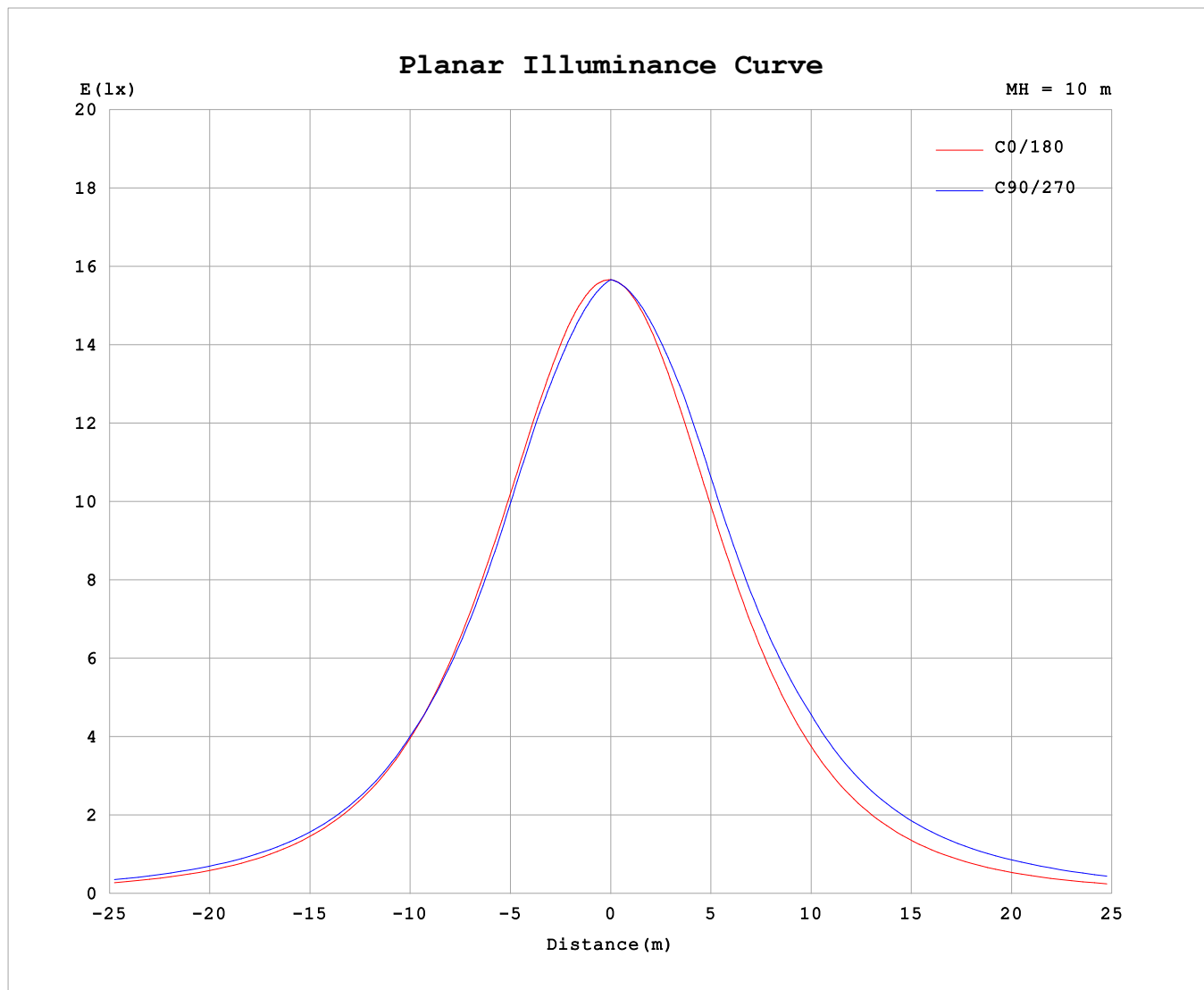
AvgL	cd/m2
L_0~180 (65) av	3898
L_0~180 (75) av	3290
L_0~180 (85) av	1433
L_90~270 (65) av	5573
L_90~270 (75) av	5861
L_90~270 (85) av	6526
L_45 (65) av	4720
L_45 (75) av	5167
L_45 (85) av	5542

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:

Test:U:121.36V I:0.2813A P:34.038W PF:0.9972 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5128.35x1 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:

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: