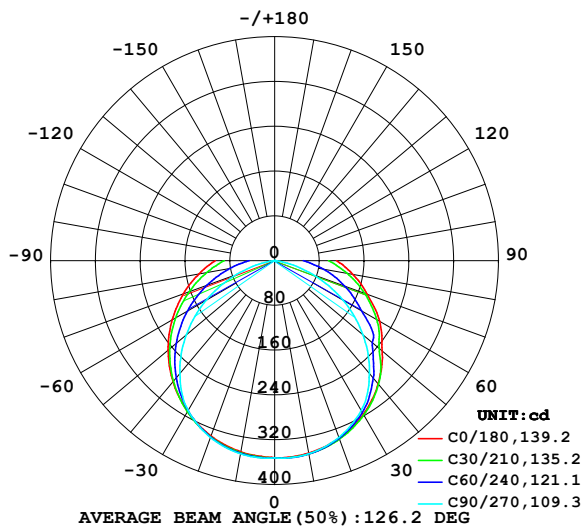


LUMINAIRE PHOTOMETRIC TEST REPORT

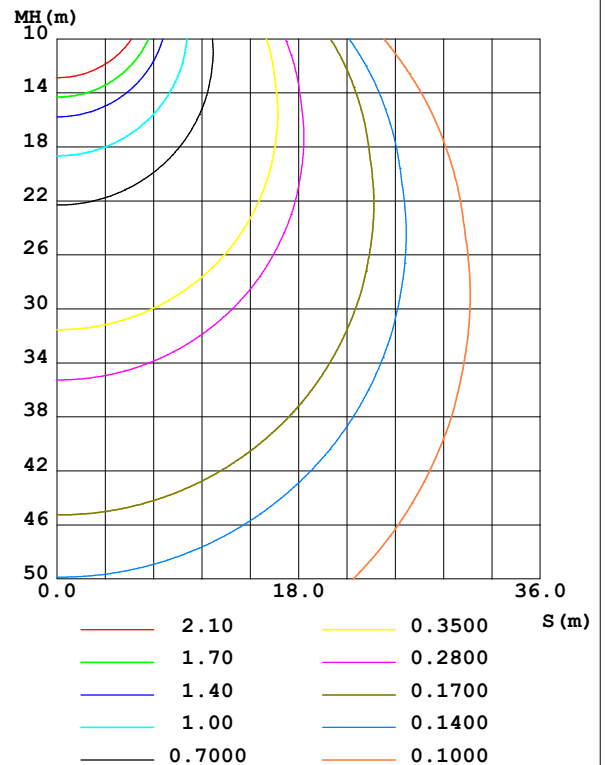
NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 89.75 lm/W
MODEL		I _{max} (cd)	353.3	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	14	LOR(%)	93.7	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1227.8	η UP,DN(C0-180)	0.0,46.9	
NOMINAL FLUX(lm)	1309.78	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	24.002	η down (%)	93.7	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Test Date:2026-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:7.580m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	349.2	350.7	350.4	348.9	346.9	348.9	350.4	350.7	0- 10	33.55	33.55	2.73,2.56
20	337.3	338.5	335.9	334.9	333.1	334.9	335.9	338.5	10- 20	97.27	130.8	10.7,9.99
30	317.0	316.0	309.2	310.7	311.1	310.7	309.2	316.0	20- 30	150.3	281.1	22.9,21.5
40	287.6	281.4	263.7	277.5	282.5	277.5	263.7	281.4	30- 40	185.6	466.7	38,35.6
50	251.0	235.8	206.3	237.1	248.7	237.1	206.3	235.8	40- 50	197.8	664.5	54.1,50.7
60	216.6	194.8	140.8	192.0	211.3	192.0	140.8	194.8	50- 60	189.7	854.2	69.6,65.2
70	175.8	152.1	72.68	145.2	173.6	145.2	72.68	152.1	60- 70	162.6	1017	82.8,77.6
80	142.0	110.2	13.94	102.1	137.3	102.1	13.94	110.2	70- 80	124.6	1141	93,87.1
90	110.5	73.70	0.8351	67.58	105.9	67.58	0.8351	73.70	80- 90	86.43	1228	100,93.7
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): 565.64 lm

%lum = 46.1%

%lamp = 43.2%

Conical surface Flux(130deg): 939.77 lm

%lum = 76.5%

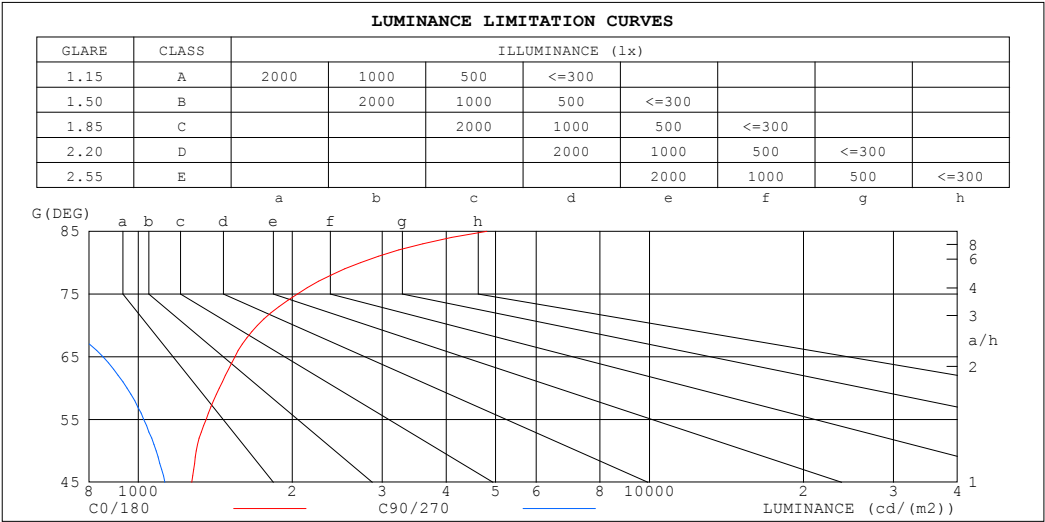
%lamp = 71.8%

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Test Date:2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.479
 Humidity:65.0%
 Test Distance:7.580m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4804	31
80	2718	271
75	2046	533
70	1709	717
65	1545	853
60	1440	951
55	1356	1025
50	1298	1083
45	1272	1127

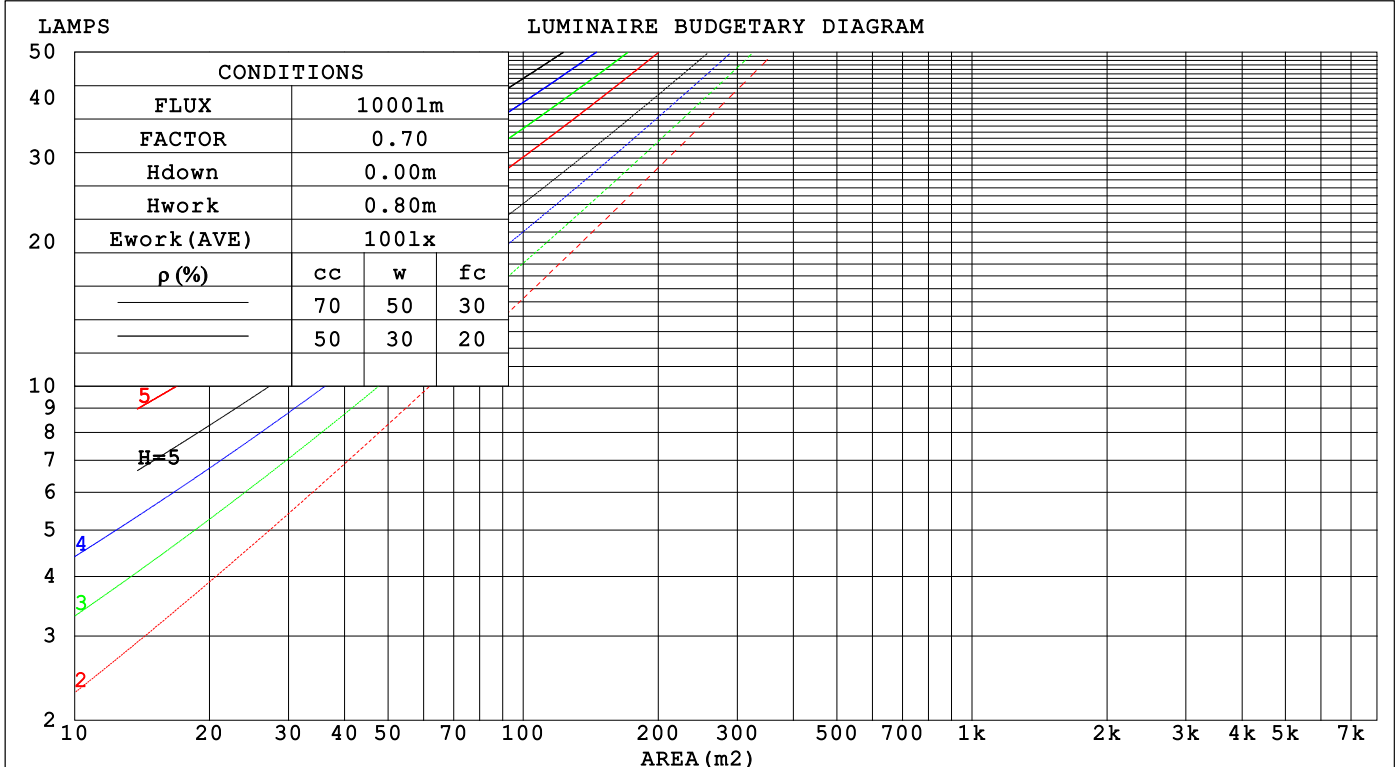
C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Test Date:2026-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:7.580m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

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															



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Test Date: 2026-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 7.580m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

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	.327	.189	.061	.316	.183	.059															
2.0	.315	.172	.053	.309	.170	.052	.297	.165	.051	.287	.161	.050	.277	.157	.049															
3.0	.281	.150	.045	.276	.148	.044	.266	.144	.044	.257	.141	.043	.248	.137	.042															
4.0	.254	.132	.039	.249	.130	.039	.240	.128	.038	.232	.125	.038	.225	.122	.037															
5.0	.231	.118	.034	.227	.117	.034	.219	.114	.034	.212	.112	.033	.205	.110	.033															
6.0	.212	.106	.030	.209	.105	.030	.202	.103	.030	.195	.101	.030	.189	.099	.030															
7.0	.196	.097	.027	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027															
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024															
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.078	.022															
10.0	.159	.076	.021	.157	.076	.021	.152	.074	.021	.148	.073	.021	.144	.072	.021															

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	.179	.179	.179	.153	.153	.153	.104	.104	.104	.060	.060	.060	.019	.019	.019	
1.0	.174	.146	.121	.149	.125	.104	.102	.086	.072	.059	.050	.042	.019	.016	.013	
2.0	.167	.123	.087	.143	.106	.075	.098	.074	.052	.057	.043	.031	.018	.014	.010	
3.0	.160	.107	.066	.137	.093	.057	.094	.064	.040	.054	.038	.024	.017	.012	.008	
4.0	.152	.095	.052	.131	.082	.045	.090	.057	.032	.052	.034	.019	.017	.011	.006	
5.0	.145	.086	.042	.124	.074	.036	.086	.052	.026	.050	.030	.015	.016	.010	.005	
6.0	.137	.078	.035	.118	.067	.030	.082	.047	.022	.047	.028	.013	.015	.009	.004	
7.0	.131	.071	.030	.112	.062	.026	.078	.043	.018	.045	.026	.011	.015	.008	.004	
8.0	.124	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
9.0	.118	.061	.023	.102	.053	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	
10.0	.112	.057	.020	.097	.050	.018	.067	.035	.013	.039	.021	.008	.013	.007	.003	

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Test Date:2026-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:7.580m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: UB-VE-30K					TYPE: LED Strip			WEIGHT:		
SPEC.: 13.1W					DIM.: 1000*10*3.5 (MM)			SERIAL No.: 001		
MFR.: Flexfire LEDs, Inc.					SUR.:			Shielding Angle: 120		
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	13.3	14.9	13.5	15.1	15.3	11.9	13.5	12.2	13.8	14.0
3H	15.7	17.2	16.0	17.4	17.7	13.3	14.8	13.6	15.0	15.3
4H	17.0	18.4	17.3	18.7	18.9	13.7	15.1	14.0	15.4	15.7
6H	18.4	19.8	18.7	20.0	20.3	13.9	15.3	14.2	15.5	15.8
8H	19.2	20.5	19.5	20.8	21.1	13.9	15.2	14.2	15.5	15.8
12H	20.1	21.4	20.4	21.7	22.0	13.9	15.1	14.2	15.5	15.8
4H 2H	14.0	15.4	14.3	15.7	15.9	13.0	14.4	13.3	14.7	14.9
3H	16.6	17.9	17.0	18.2	18.5	14.7	16.0	15.0	16.3	16.6
4H	18.1	19.3	18.5	19.6	20.0	15.4	16.6	15.8	16.9	17.2
6H	19.7	20.8	20.2	21.2	21.6	15.8	16.9	16.2	17.3	17.6
8H	20.7	21.7	21.1	22.0	22.4	15.9	16.9	16.4	17.3	17.7
12H	21.7	22.6	22.1	23.0	23.4	16.0	16.9	16.4	17.3	17.7
8H 4H	18.5	19.6	19.0	19.9	20.3	16.4	17.4	16.8	17.7	18.1
6H	20.5	21.3	20.9	21.8	22.2	17.3	18.1	17.7	18.5	19.0
8H	21.6	22.4	22.1	22.8	23.3	17.6	18.4	18.1	18.8	19.3
12H	22.9	23.6	23.4	24.0	24.5	17.9	18.5	18.3	19.0	19.5
12H 4H	18.6	19.5	19.0	19.9	20.3	16.6	17.6	17.1	18.0	18.4
6H	20.6	21.4	21.1	21.8	22.3	17.8	18.5	18.2	19.0	19.4
8H	21.9	22.5	22.3	23.0	23.5	18.3	19.0	18.8	19.4	19.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1310 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.9$)
Area: 0.297 m²

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Test Date:2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:7.580m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

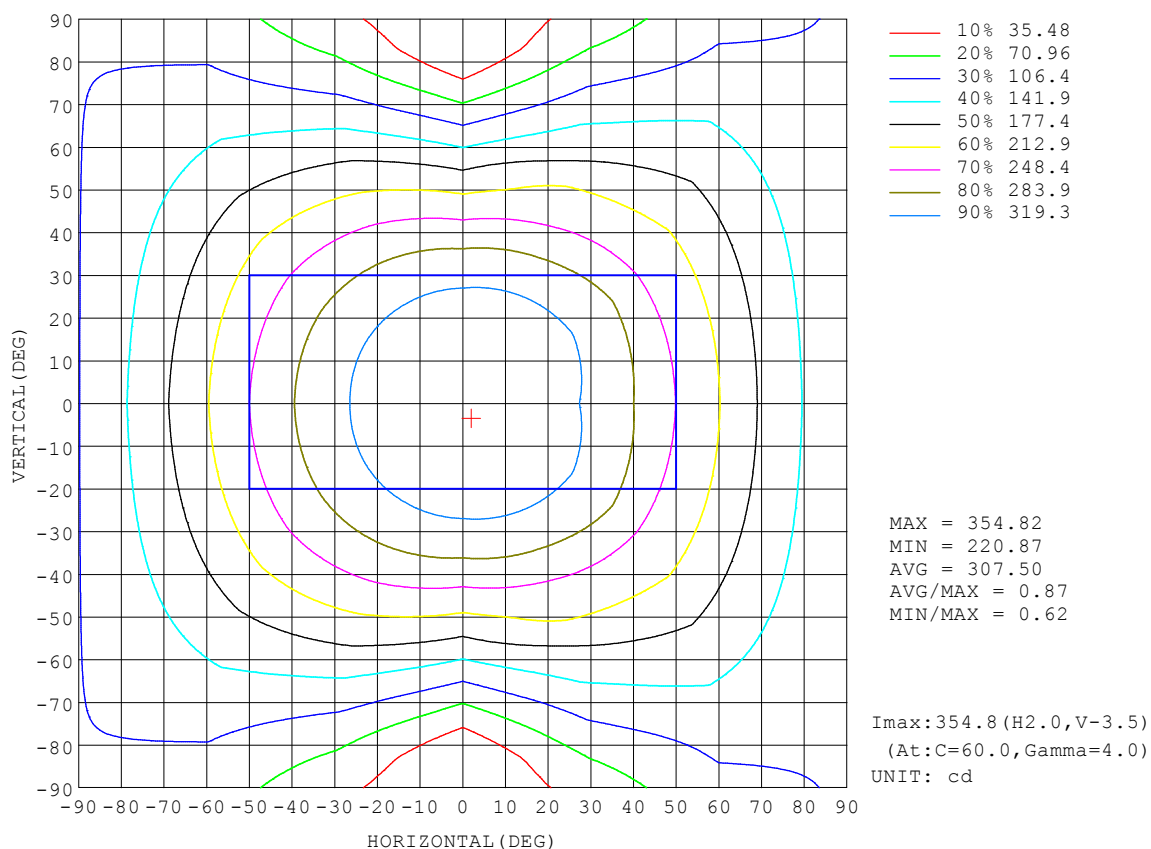
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	32	50	39	32	49	38	32	26
0.80	60	48	41	59	48	40	57	47	40	33
1.00	67	56	48	66	55	48	64	57	48	40
1.25	74	63	55	72	62	55	70	61	54	47
1.50	79	68	61	77	67	60	74	65	59	51
2.00	85	76	69	83	75	68	80	73	67	59
2.50	89	81	74	87	79	73	83	77	71	63
3.00	92	85	79	90	83	78	86	80	76	67
4.00	97	90	85	94	88	83	90	85	81	72
5.00	99	94	89	97	92	87	92	88	84	75
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Test Date: 2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
 Humidity: 65.0%
 Test Distance: 7.580m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

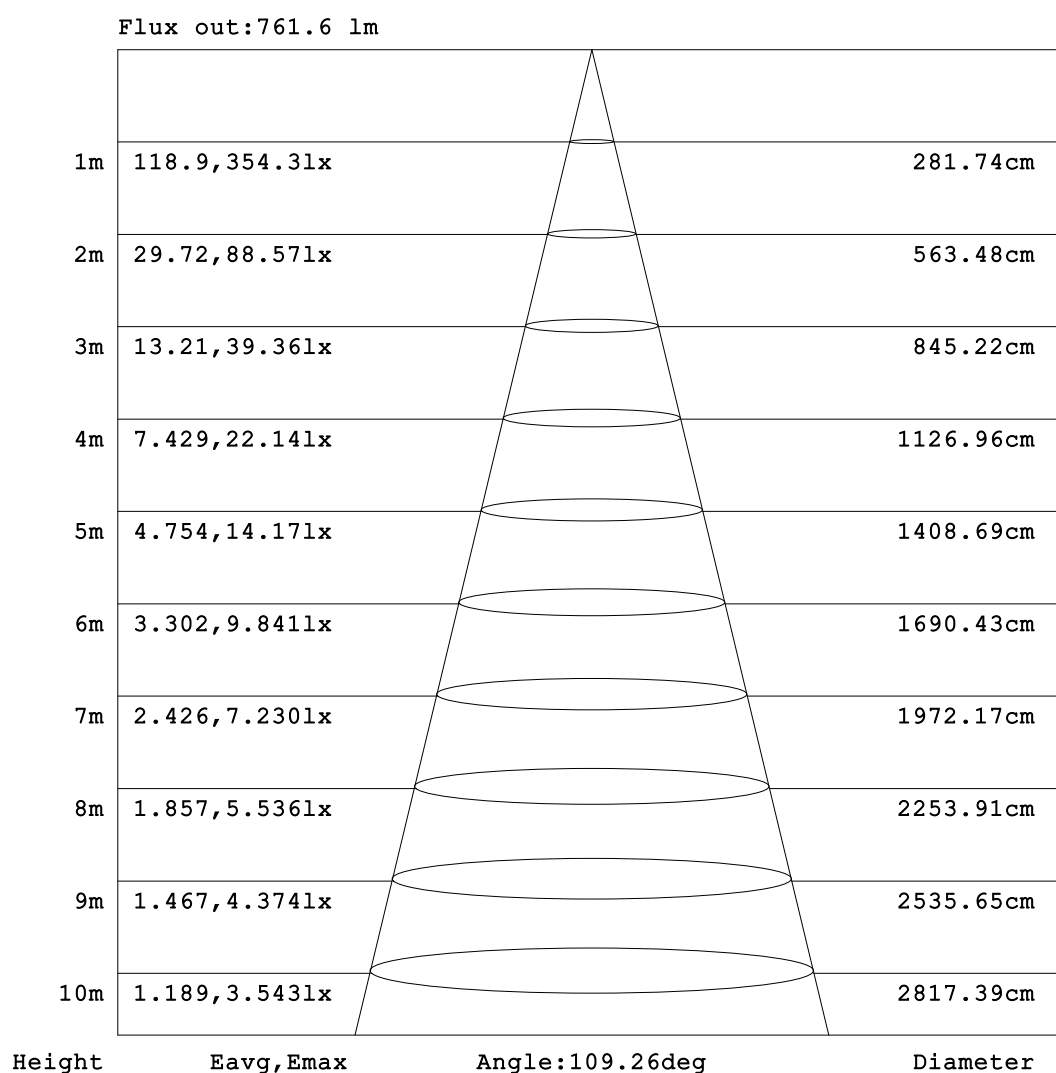


C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Test Date: 2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 7.580m [K=1.0000]
Remarks:

AAI Figure

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120



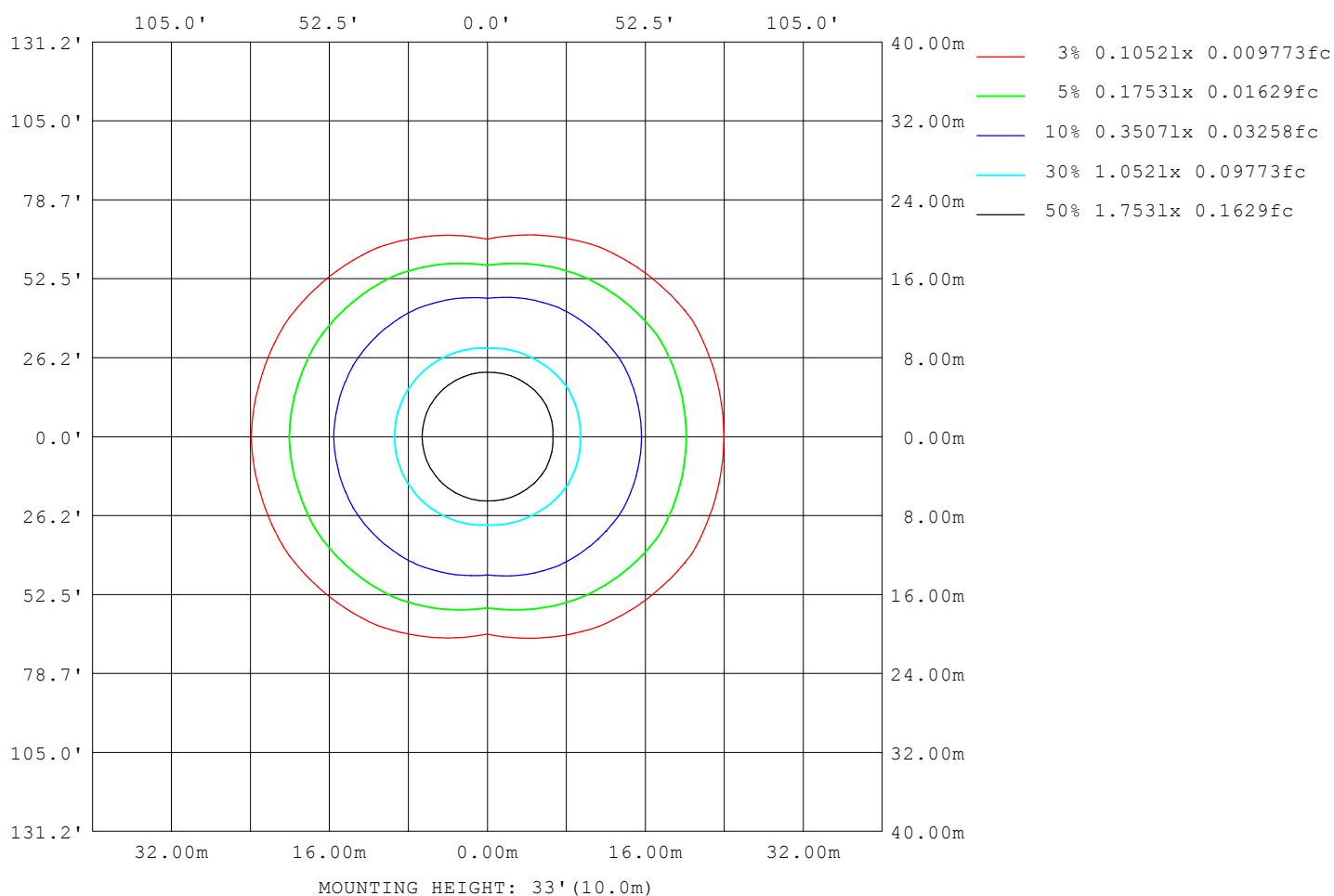
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Test Date: 2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
 Humidity: 65.0%
 Test Distance: 7.580m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Test Date: 2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 7.580m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

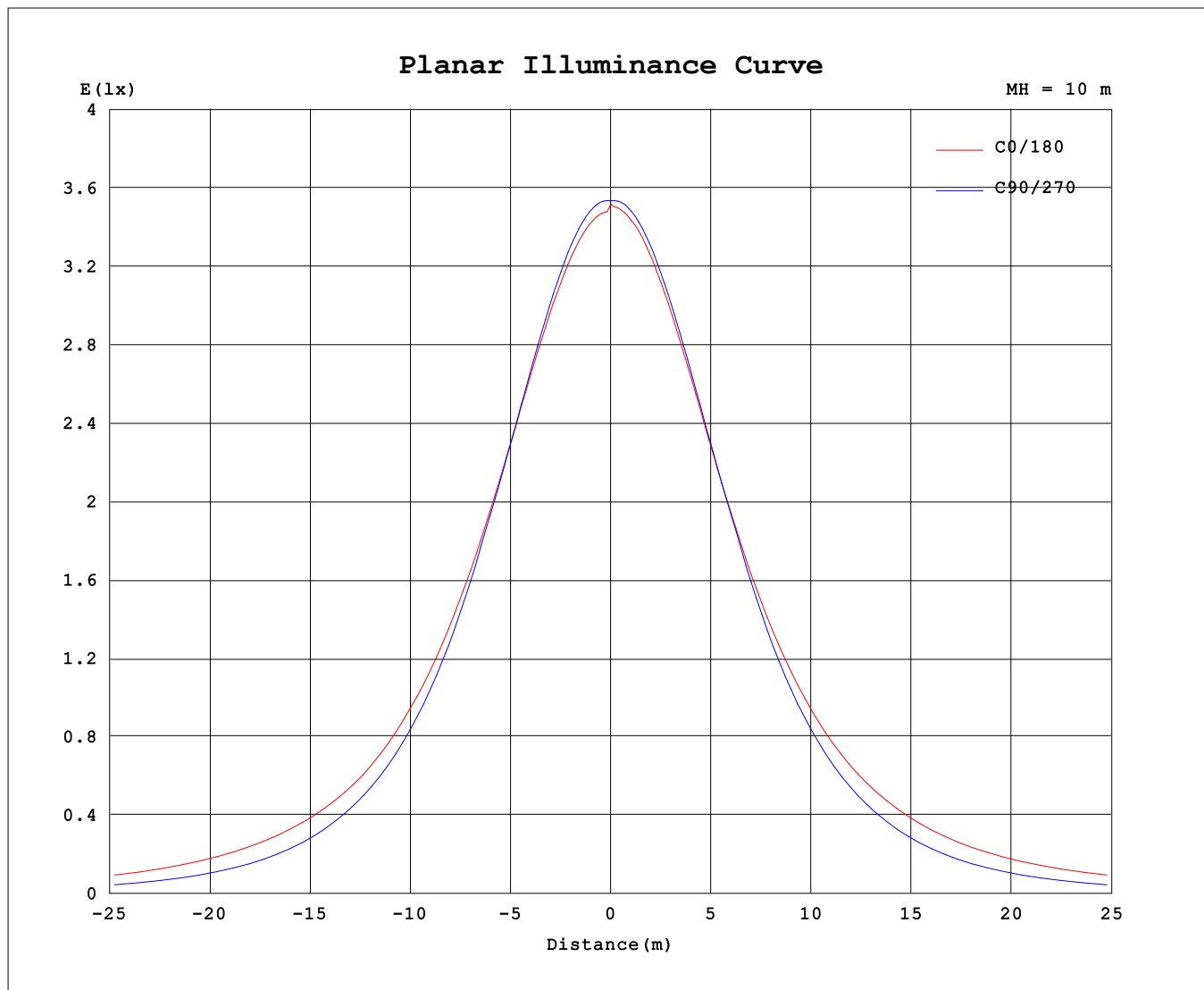
AvgL	cd/m2
L_0~180 (65) av	1548
L_0~180 (75) av	2045
L_0~180 (85) av	4772
L_90~270 (65) av	851
L_90~270 (75) av	531
L_90~270 (85) av	31
L_45 (65) av	1383
L_45 (75) av	1700
L_45 (85) av	3468

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Test Date: 2026-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 7.580m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Test Date: 2026-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 7.580m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: UB-VE-30K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

Table--1

UNIT: cd

[illegible]

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Test Date: 2026-06-11

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:7.580m [K=1.0000]
Remarks:

```