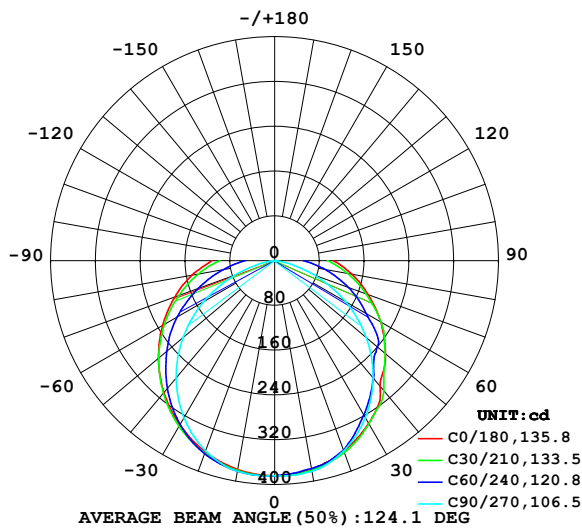


LUMINAIRE PHOTOMETRIC TEST REPORT

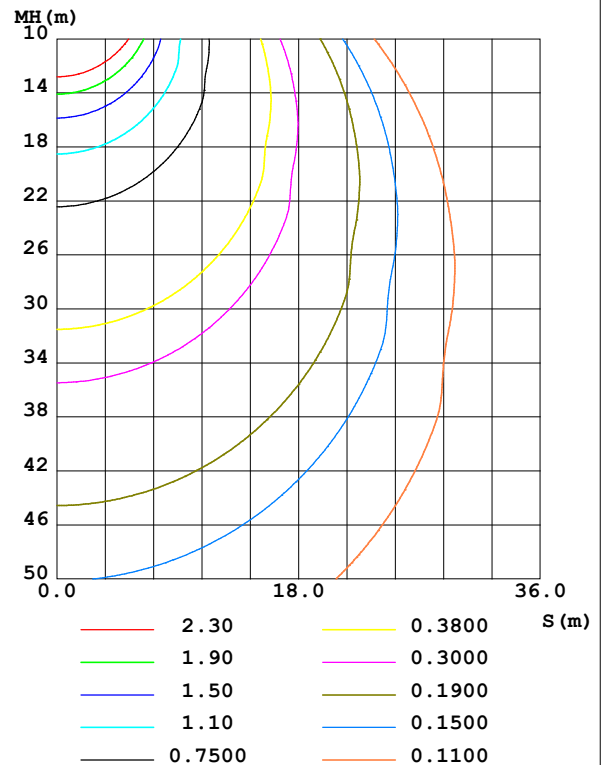
NAME: UB-VE-50K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 202.13 lm/W
MODEL		I _{max} (cd)	385.1	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	14	LOR(%)	245.7	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1309.8	η UP,DN(C0-180)	0.0,122.2	
NOMINAL FLUX(lm)	533.034	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,123.6	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	24.002	η down (%)	245.7	CIBSE SHR MAX	1.50	

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	378.2	378.7	381.9	381.3	379.0	381.3	381.9	378.7	0- 10	36.49	36.49	2.79,6.85
20	361.7	362.4	361.3	366.4	363.0	366.4	361.3	362.4	10- 20	105.5	142.0	10.8,26.6
30	336.0	327.5	324.0	339.9	338.6	339.9	324.0	327.5	20- 30	161.1	303.1	23.1,56.9
40	293.3	289.5	274.0	303.8	307.7	303.8	274.0	289.5	30- 40	196.8	499.9	38.2,93.8
50	258.6	248.7	213.9	261.1	271.1	261.1	213.9	248.7	40- 50	209.2	709.0	54.1,133
60	218.9	204.1	145.9	214.1	231.1	214.1	145.9	204.1	50- 60	202.7	911.8	69.6,171
70	177.8	157.1	74.91	163.6	189.7	163.6	74.91	157.1	60- 70	174.0	1086	82.9,204
80	139.9	112.1	14.01	115.9	149.9	115.9	14.01	112.1	70- 80	132.9	1219	93,229
90	105.0	72.80	0.9845	75.06	112.1	75.06	0.9845	72.80	80- 90	91.19	1310	100,246
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): 604.04 lm

%lum = 46.1%

%lamp = 113.3%

Conical surface Flux(130deg): 1003.3 lm

%lum = 76.6%

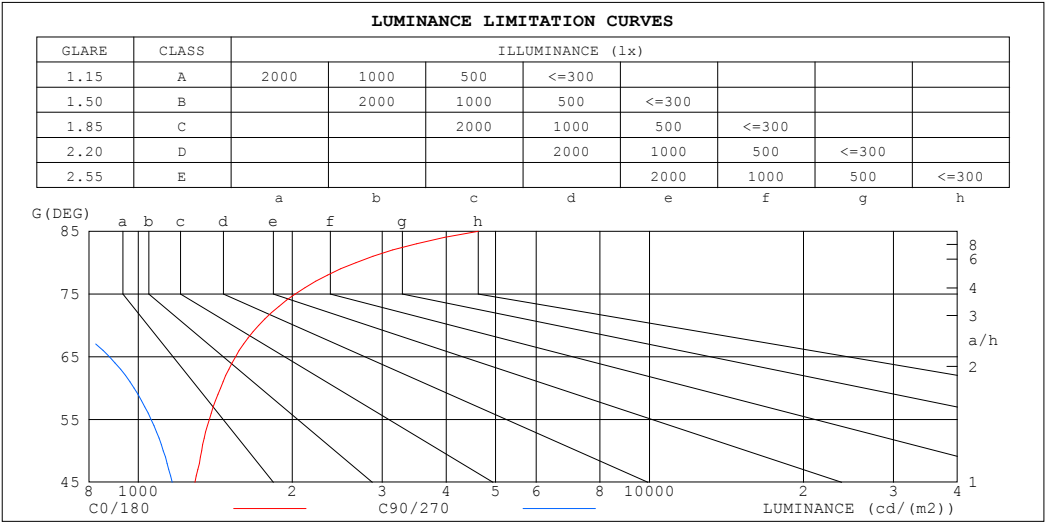
%lamp = 188.2%

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
 γ 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-50K	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	4625	35
80	2663	271
75	2028	550
70	1719	737
65	1550	878
60	1447	981
55	1377	1059
50	1330	1119
45	1290	1165

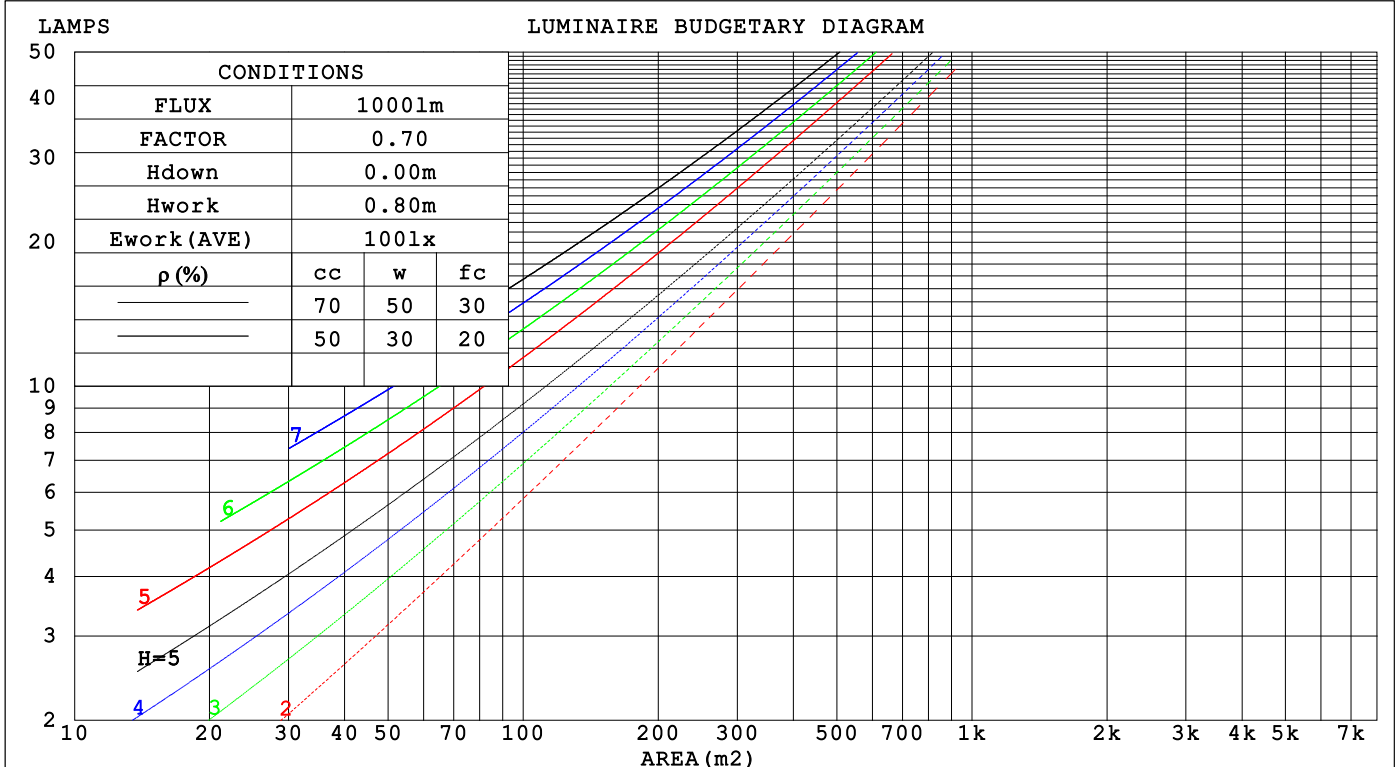
C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Test Date:2026-06-11

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-50K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	2.93	2.93	2.93	2.86	2.86	2.86	2.73	2.73	2.73	2.61	2.61	2.61	2.51	2.51	2.51	2.46
1.0	2.46	2.33	2.21	2.40	2.28	2.18	2.30	2.20	2.11	2.20	2.12	2.04	2.11	2.04	1.98	1.92
2.0	2.11	1.92	1.75	2.06	1.88	1.73	1.97	1.82	1.69	1.89	1.76	1.65	1.81	1.71	1.61	1.55
3.0	1.84	1.61	1.43	1.80	1.59	1.42	1.72	1.54	1.39	1.65	1.50	1.37	1.58	1.45	1.34	1.28
4.0	1.62	1.38	1.20	1.58	1.36	1.19	1.52	1.33	1.17	1.46	1.29	1.16	1.40	1.26	1.14	1.08
5.0	1.44	1.20	1.02	1.41	1.19	1.02	1.36	1.16	1.01	1.31	1.13	.99	1.26	1.11	.98	.93
6.0	1.29	1.06	.89	1.27	1.05	.88	1.22	1.02	.88	1.18	1.00	.87	1.14	.98	.86	.80
7.0	1.17	.94	.78	1.15	.93	.78	1.11	.91	.77	1.07	.90	.76	1.04	.88	.76	.71
8.0	1.06	.84	.69	1.05	.84	.69	1.01	.82	.69	.98	.81	.68	.95	.79	.68	.63
9.0	.98	.76	.62	.96	.76	.62	.93	.75	.62	.90	.73	.61	.88	.72	.61	.56
10.0	.90	.70	.56	.89	.69	.56	.86	.68	.56	.84	.67	.56	.81	.66	.55	.51



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-50K	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	.938 .533 .169	.920 .525 .167	.886 .508 .162	.855 .493 .158	.827 .479 .155	
2.0	.823 .451 .138	.808 .445 .137	.778 .433 .134	.750 .421 .132	.725 .410 .129	
3.0	.736 .392 .117	.722 .387 .116	.696 .377 .115	.672 .368 .113	.649 .359 .111	
4.0	.665 .346 .102	.653 .342 .101	.629 .334 .100	.608 .326 .098	.588 .319 .097	
5.0	.606 .309 .089	.595 .305 .089	.574 .299 .088	.555 .293 .087	.537 .287 .086	
6.0	.556 .279 .080	.546 .276 .079	.528 .271 .079	.511 .265 .078	.495 .260 .077	
7.0	.513 .254 .072	.505 .251 .072	.488 .247 .071	.473 .243 .071	.459 .238 .070	
8.0	.476 .233 .065	.469 .231 .065	.454 .227 .065	.440 .223 .064	.427 .219 .064	
9.0	.444 .215 .060	.437 .213 .060	.424 .210 .059	.412 .207 .059	.400 .203 .059	
10.0	.416 .199 .055	.410 .198 .055	.398 .195 .055	.387 .192 .055	.376 .189 .054	

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	.468 .468 .468	.400 .400 .400	.273 .273 .273	.157 .157 .157	.050 .050 .050	
1.0	.455 .382 .316	.390 .328 .272	.266 .226 .188	.153 .131 .109	.049 .042 .035	
2.0	.437 .324 .228	.375 .279 .197	.257 .193 .137	.148 .112 .081	.047 .036 .026	
3.0	.418 .281 .172	.359 .243 .149	.246 .169 .105	.142 .098 .062	.046 .032 .020	
4.0	.398 .249 .135	.342 .215 .118	.235 .150 .083	.136 .088 .049	.044 .029 .016	
5.0	.379 .224 .110	.325 .194 .096	.224 .135 .068	.130 .080 .040	.042 .026 .013	
6.0	.360 .204 .092	.309 .177 .080	.214 .124 .057	.124 .073 .034	.040 .024 .011	
7.0	.342 .187 .078	.294 .162 .068	.203 .114 .048	.118 .067 .029	.038 .022 .010	
8.0	.325 .173 .068	.280 .150 .059	.194 .105 .042	.113 .062 .025	.036 .020 .008	
9.0	.309 .160 .060	.266 .139 .052	.185 .098 .037	.108 .058 .022	.035 .019 .007	
10.0	.295 .150 .054	.254 .130 .047	.176 .092 .033	.103 .054 .020	.033 .018 .007	

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-50K					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	16.4	18.0	16.6	18.2	18.4	15.1	16.7	15.4	16.9	17.1
3H	18.7	20.2	19.0	20.4	20.7	16.4	17.9	16.7	18.2	18.4
4H	19.9	21.4	20.3	21.6	21.9	16.9	18.3	17.2	18.6	18.8
6H	21.3	22.7	21.6	23.0	23.2	17.0	18.4	17.4	18.7	19.0
8H	22.1	23.4	22.4	23.7	24.0	17.0	18.4	17.4	18.7	19.0
12H	22.9	24.2	23.3	24.5	24.8	17.0	18.3	17.4	18.6	18.9
4H 2H	17.1	18.5	17.4	18.8	19.0	16.1	17.6	16.5	17.8	18.1
3H	19.6	20.9	20.0	21.2	21.5	17.8	19.1	18.2	19.4	19.8
4H	21.1	22.3	21.5	22.6	23.0	18.5	19.7	18.9	20.1	20.4
6H	22.7	23.7	23.1	24.1	24.5	19.0	20.1	19.4	20.4	20.8
8H	23.5	24.5	24.0	24.9	25.3	19.1	20.1	19.5	20.5	20.9
12H	24.5	25.5	25.0	25.9	26.3	19.1	20.1	19.6	20.4	20.9
8H 4H	21.5	22.5	22.0	22.9	23.3	19.5	20.5	19.9	20.9	21.3
6H	23.4	24.3	23.9	24.7	25.1	20.4	21.2	20.8	21.6	22.1
8H	24.5	25.3	25.0	25.7	26.2	20.7	21.5	21.2	21.9	22.4
12H	25.7	26.4	26.2	26.9	27.3	21.0	21.6	21.5	22.1	22.6
12H 4H	21.6	22.5	22.0	22.9	23.3	19.8	20.7	20.2	21.1	21.5
6H	23.6	24.3	24.0	24.8	25.2	20.9	21.6	21.3	22.1	22.5
8H	24.8	25.4	25.2	25.9	26.4	21.4	22.1	21.9	22.5	23.0
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					+ 0.3 / - 0.4				

CIE Pub.117, 533.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.2)
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-50K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

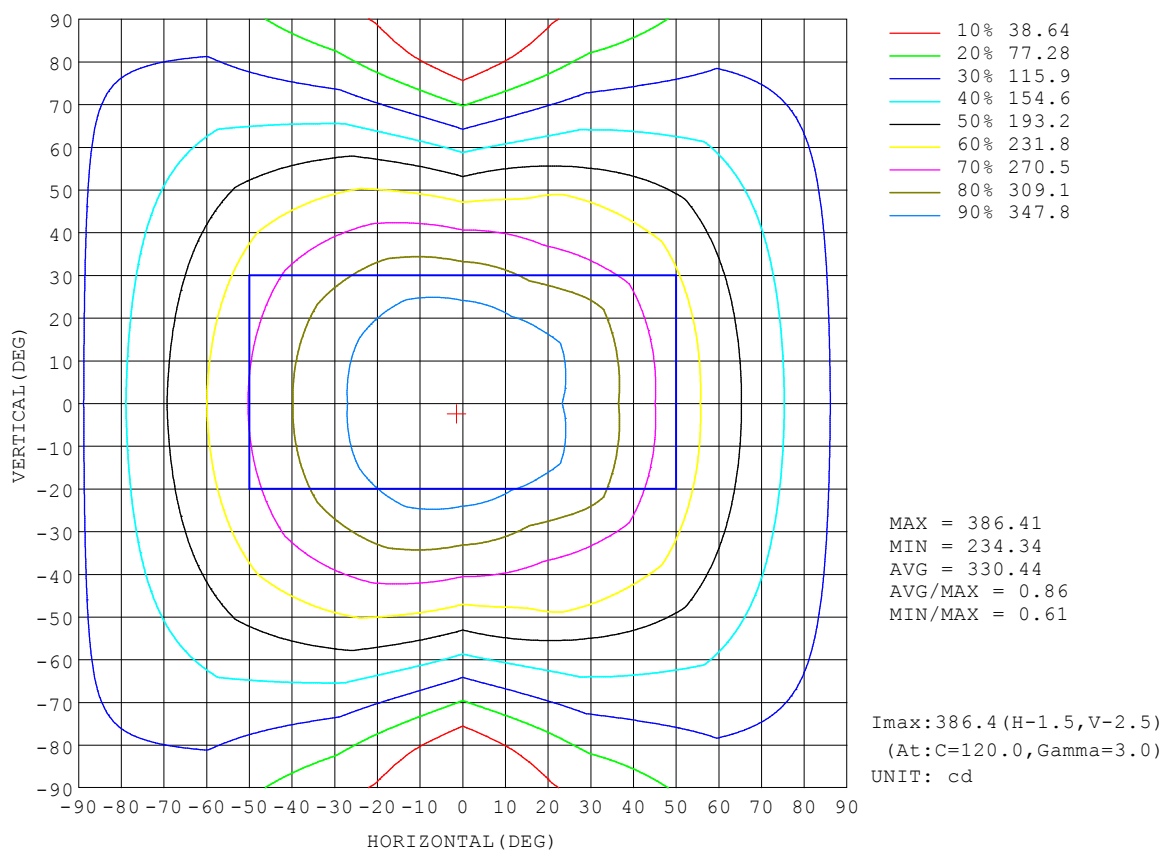
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	133	103	85	131	102	85	128	101	84	68
0.80	157	126	107	154	125	106	149	123	105	87
1.00	176	147	127	173	145	126	167	149	125	106
1.25	194	165	145	190	163	144	183	159	142	123
1.50	206	179	159	202	176	158	194	172	155	135
2.00	223	199	181	218	196	179	209	190	175	154
2.50	234	211	194	228	208	192	218	201	187	165
3.00	242	222	206	237	218	204	226	211	198	176
4.00	253	236	222	247	232	219	236	223	212	189
5.00	260	245	233	254	241	229	242	231	222	197
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-50K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

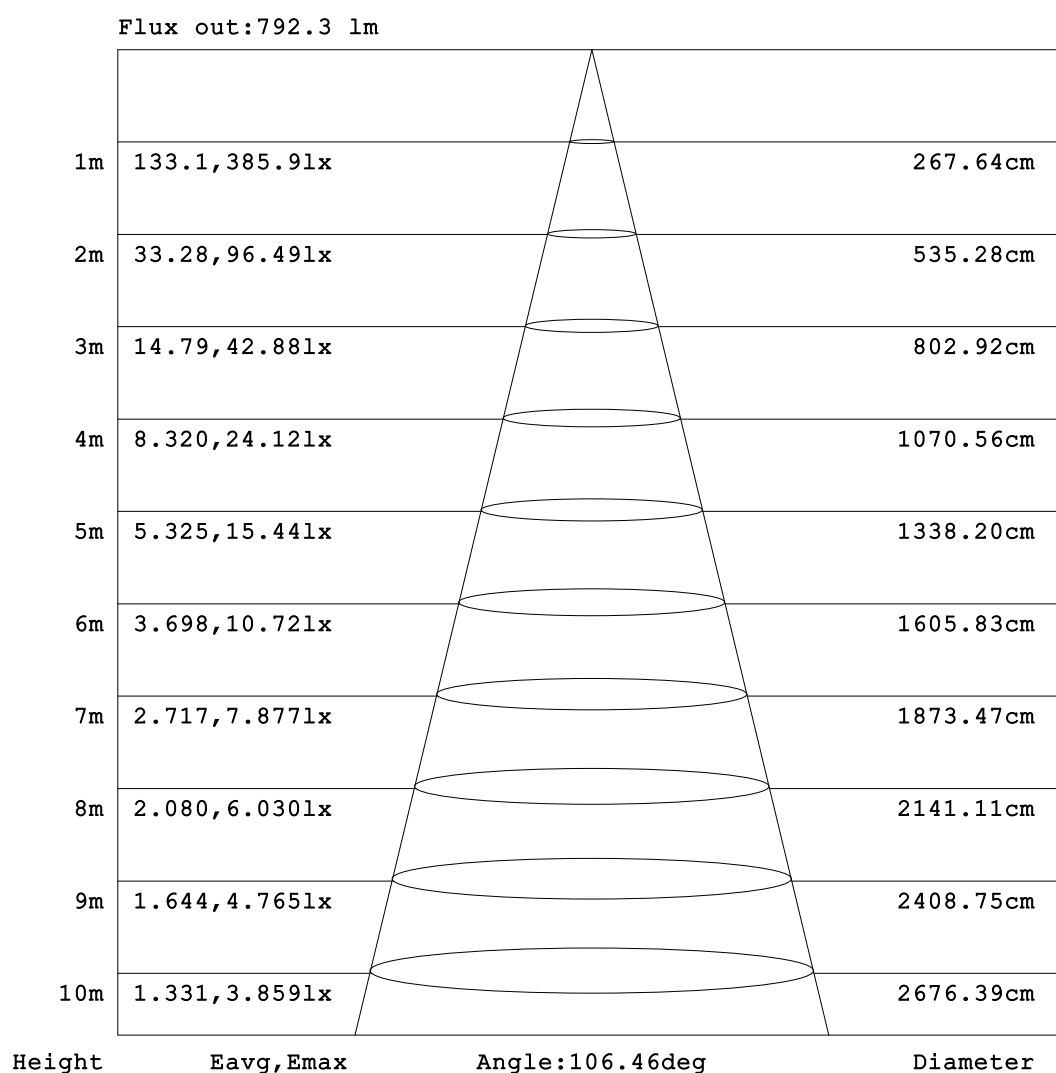


C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Test Date:2026-06-11

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-50K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120



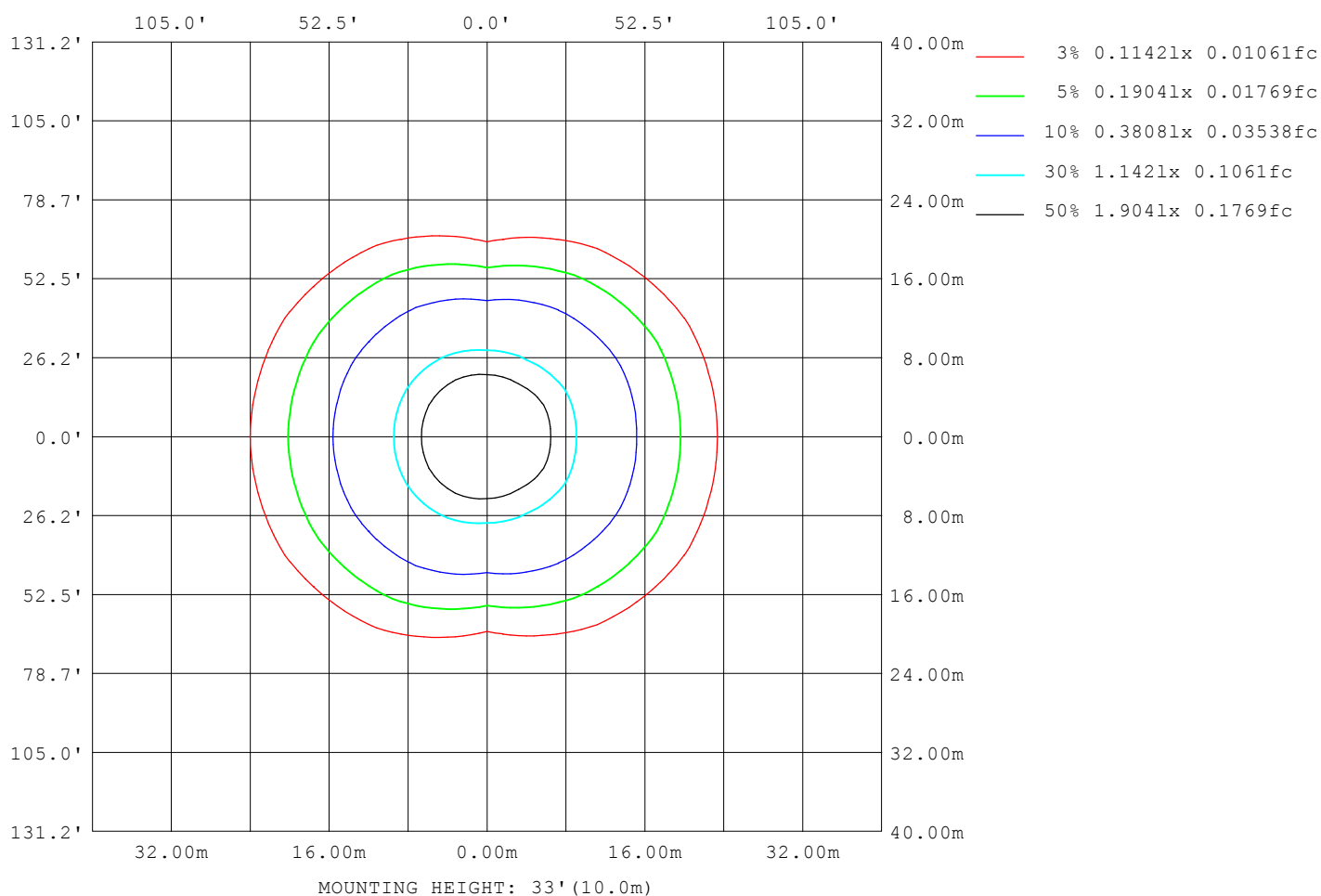
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 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-50K	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-50K	TYPE: LED Strip	WEIGHT:
SPEC.: 13.1W	DIM.: 1000*10*3.5 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.:	Shielding Angle: 120

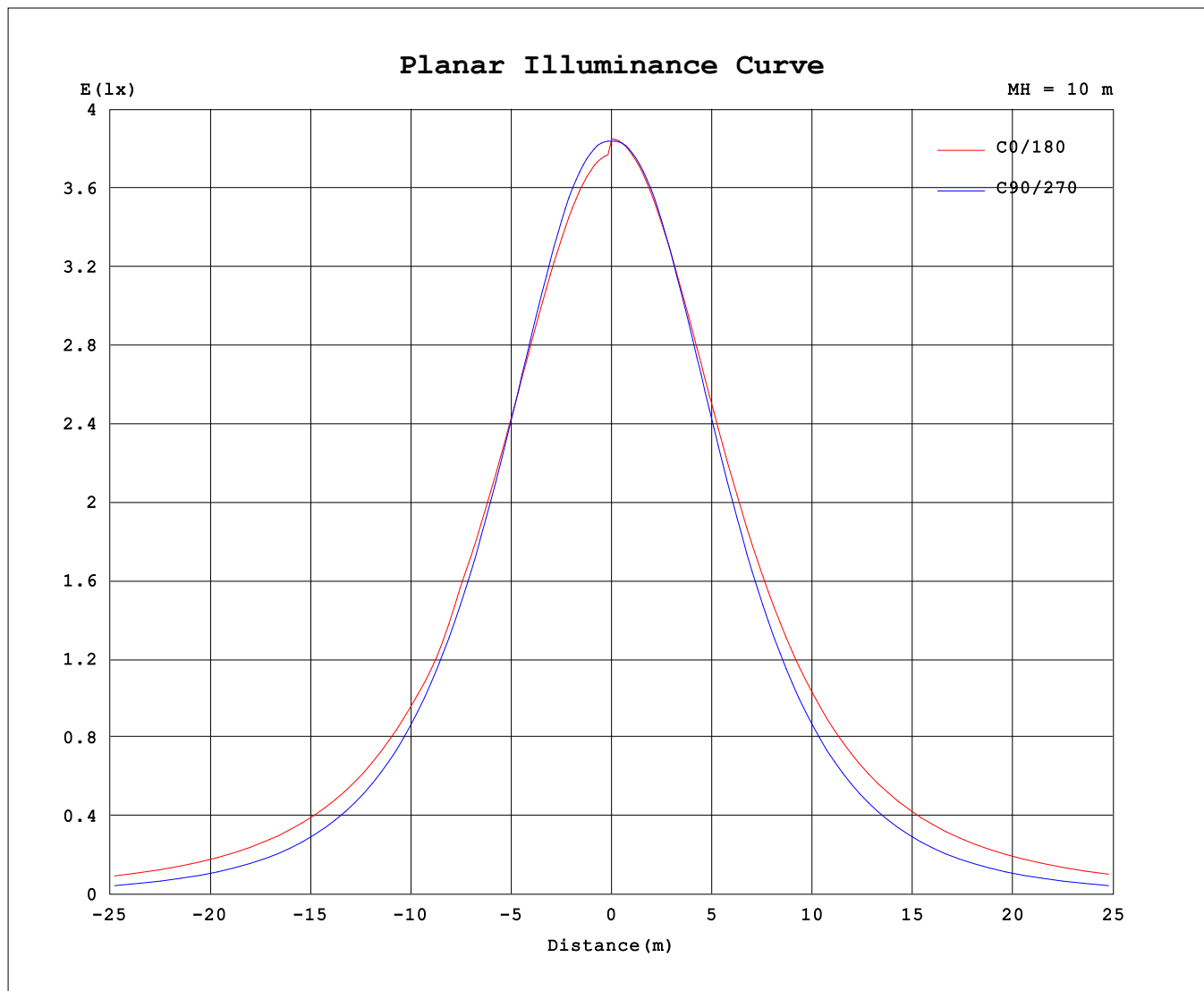
AvgL	cd/m2
L_0~180 (65) av	1627
L_0~180 (75) av	2137
L_0~180 (85) av	4850
L_90~270 (65) av	879
L_90~270 (75) av	551
L_90~270 (85) av	35
L_45 (65) av	1500
L_45 (75) av	1833
L_45 (85) av	3716

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-50K	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:

```