











**UGR(Unified Glare Rating) Table**

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm										
NAME: UB-AS-27K90C-24V					TYPE:LED Strip			WEIGHT:Kg		
SPEC.:14.4W					DIM.: 1000*10*2(MM)			SERIAL No.:001		
MFR.: Flexfire LEDs, Inc.					SUR.:1000*10(MM)			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	24.8	26.3	25.1	26.6	26.8	24.9	26.4	25.2	26.7	26.9
3H	26.3	27.7	26.7	28.0	28.3	26.5	27.9	26.8	28.1	28.4
4H	26.9	28.3	27.3	28.5	28.8	27.1	28.4	27.4	28.7	29.0
6H	27.3	28.6	27.7	28.9	29.2	27.5	28.8	27.9	29.1	29.4
8H	27.5	28.7	27.8	29.0	29.3	27.7	28.9	28.1	29.2	29.5
12H	27.5	28.7	27.9	29.0	29.3	27.8	29.0	28.2	29.3	29.6
4H 2H	25.4	26.8	25.8	27.1	27.3	25.5	26.9	25.9	27.1	27.4
3H	27.2	28.3	27.5	28.6	29.0	27.3	28.4	27.6	28.8	29.1
4H	27.9	28.9	28.3	29.3	29.6	28.0	29.1	28.4	29.4	29.8
6H	28.4	29.4	28.8	29.7	30.1	28.6	29.5	29.0	29.9	30.3
8H	28.6	29.5	29.0	29.9	30.3	28.8	29.7	29.2	30.1	30.5
12H	28.7	29.5	29.2	29.9	30.4	29.0	29.8	29.4	30.2	30.6
8H 4H	28.2	29.0	28.6	29.4	29.8	28.3	29.2	28.7	29.6	30.0
6H	28.8	29.6	29.3	30.0	30.5	29.0	29.8	29.5	30.2	30.6
8H	29.1	29.8	29.6	30.2	30.7	29.3	30.0	29.8	30.4	30.9
12H	29.3	29.9	29.8	30.3	30.8	29.6	30.1	30.1	30.6	31.1
12H 4H	28.2	29.0	28.6	29.4	29.8	28.3	29.1	28.7	29.5	29.9
6H	28.9	29.6	29.4	30.0	30.5	29.1	29.7	29.6	30.2	30.7
8H	29.2	29.8	29.7	30.2	30.7	29.4	30.0	29.9	30.5	31.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1496 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]

**UTILIZATION FACTORS TABLE**

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm		
NAME: UB-AS-27K90C-24V	TYPE:LED Strip	WEIGHT:Kg
SPEC.:14.4W	DIM.: 1000*10*2(MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120

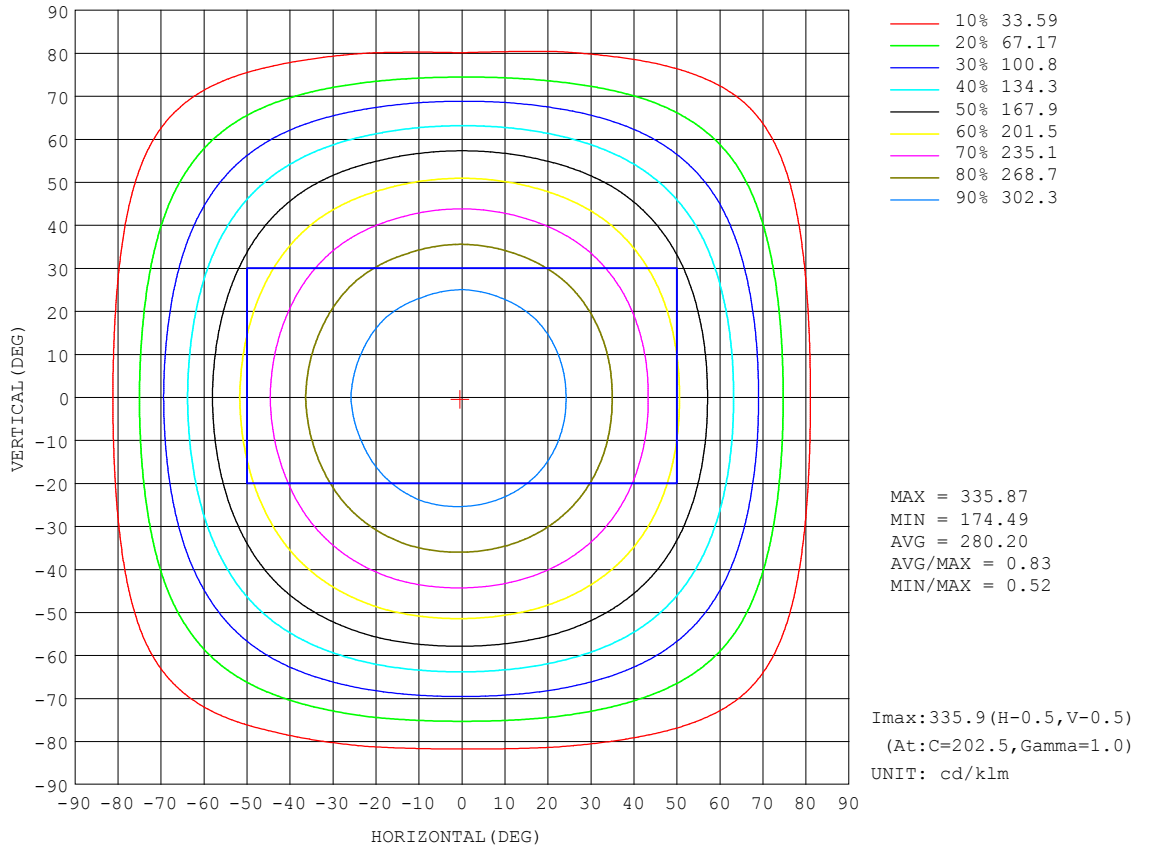
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	86	79	92	84	78	89	82	77	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]

**ISOCANDELA DIAGRAM**

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm		
NAME: UB-AS-27K90C-24V	TYPE:LED Strip	WEIGHT:Kg
SPEC.:14.4W	DIM.: 1000*10*2 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120



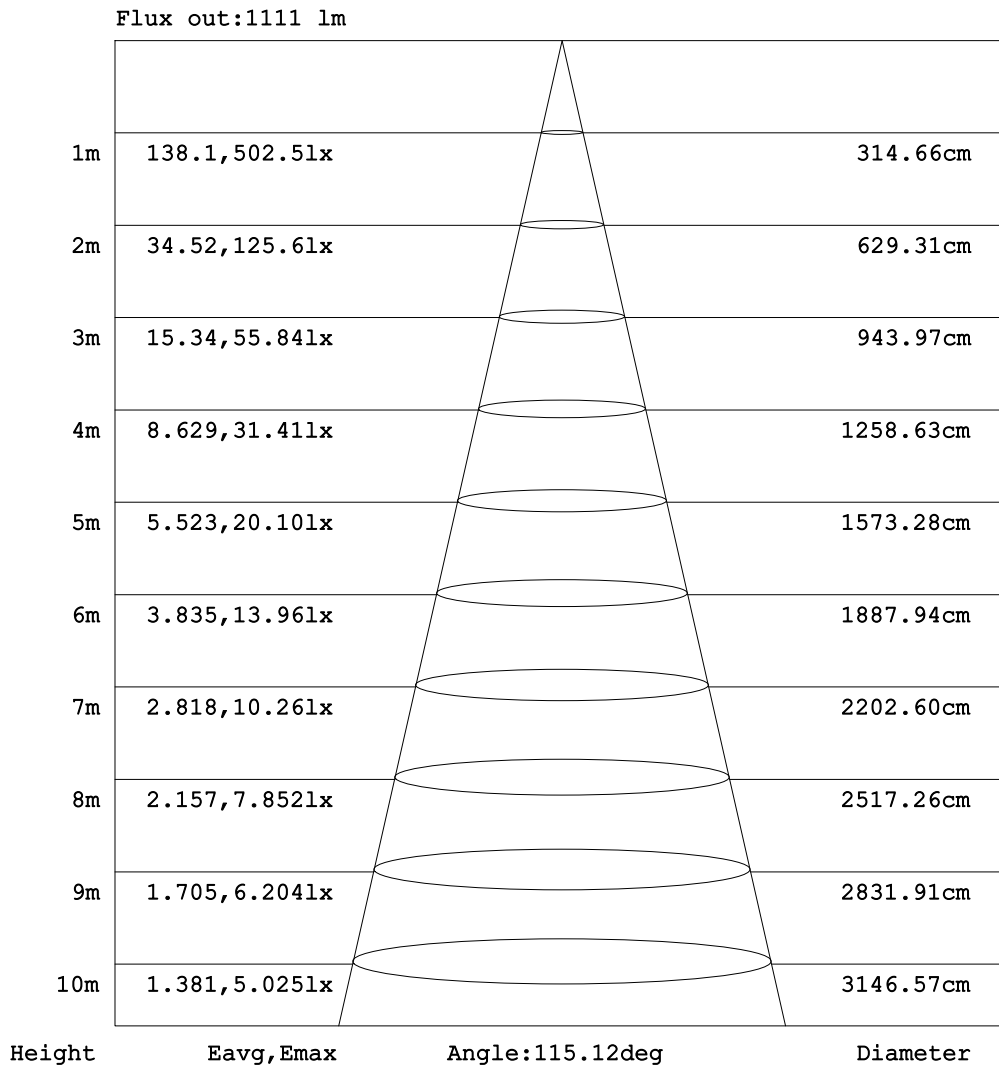
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]



**AAI Figure**

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm		
NAME: UB-AS-27K90C-24V	TYPE:LED Strip	WEIGHT:Kg
SPEC.:14.4W	DIM.: 1000*10*2(MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120



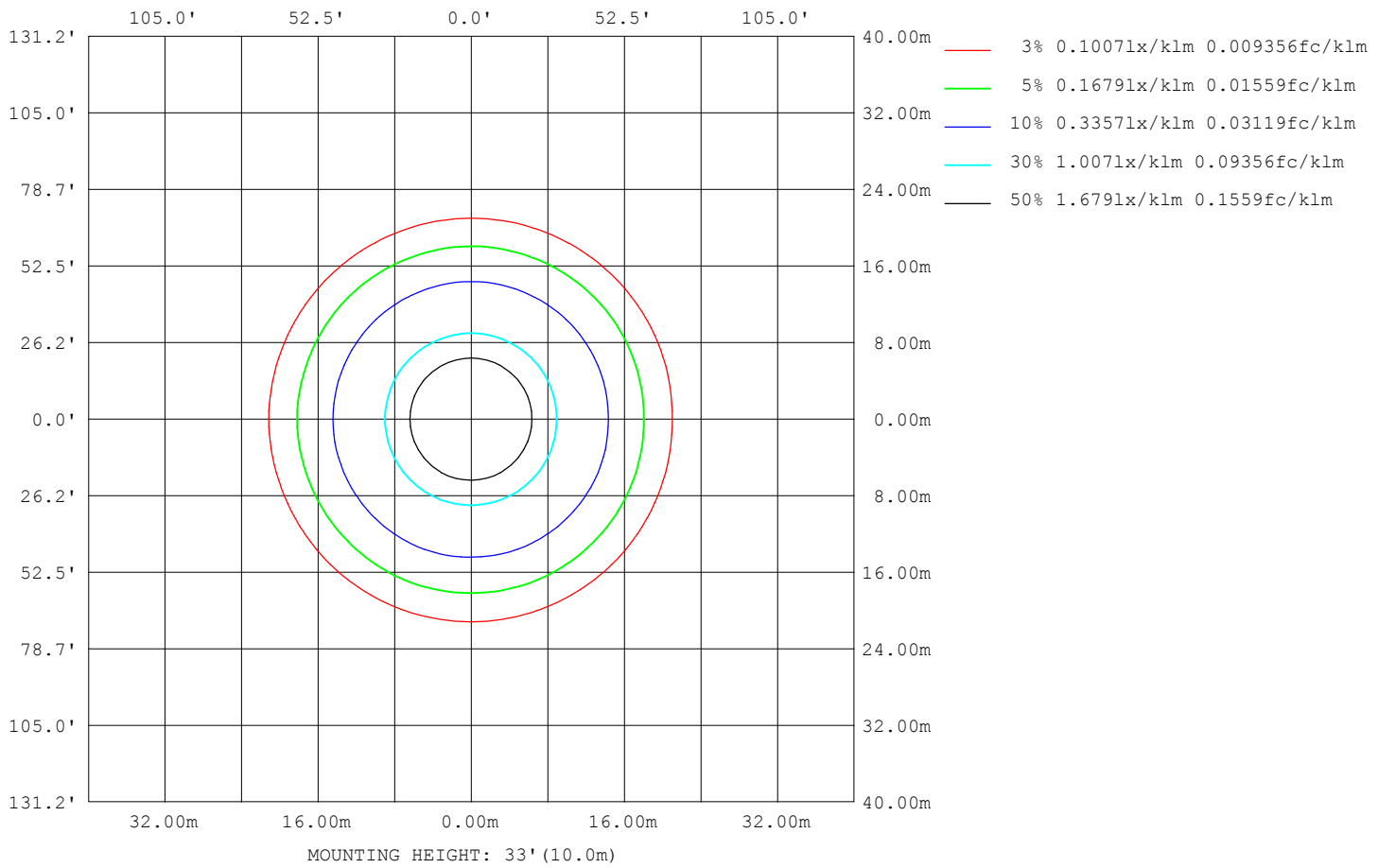
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]

**ISOLUX DIAGRAM**

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm		
NAME: UB-AS-27K90C-24V	TYPE:LED Strip	WEIGHT:Kg
SPEC.:14.4W	DIM.: 1000*10*2 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]

**LED Avg.L Report**

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm		
NAME: UB-AS-27K90C-24V	TYPE:LED Strip	WEIGHT:Kg
SPEC.:14.4W	DIM.: 1000*10*2(MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120

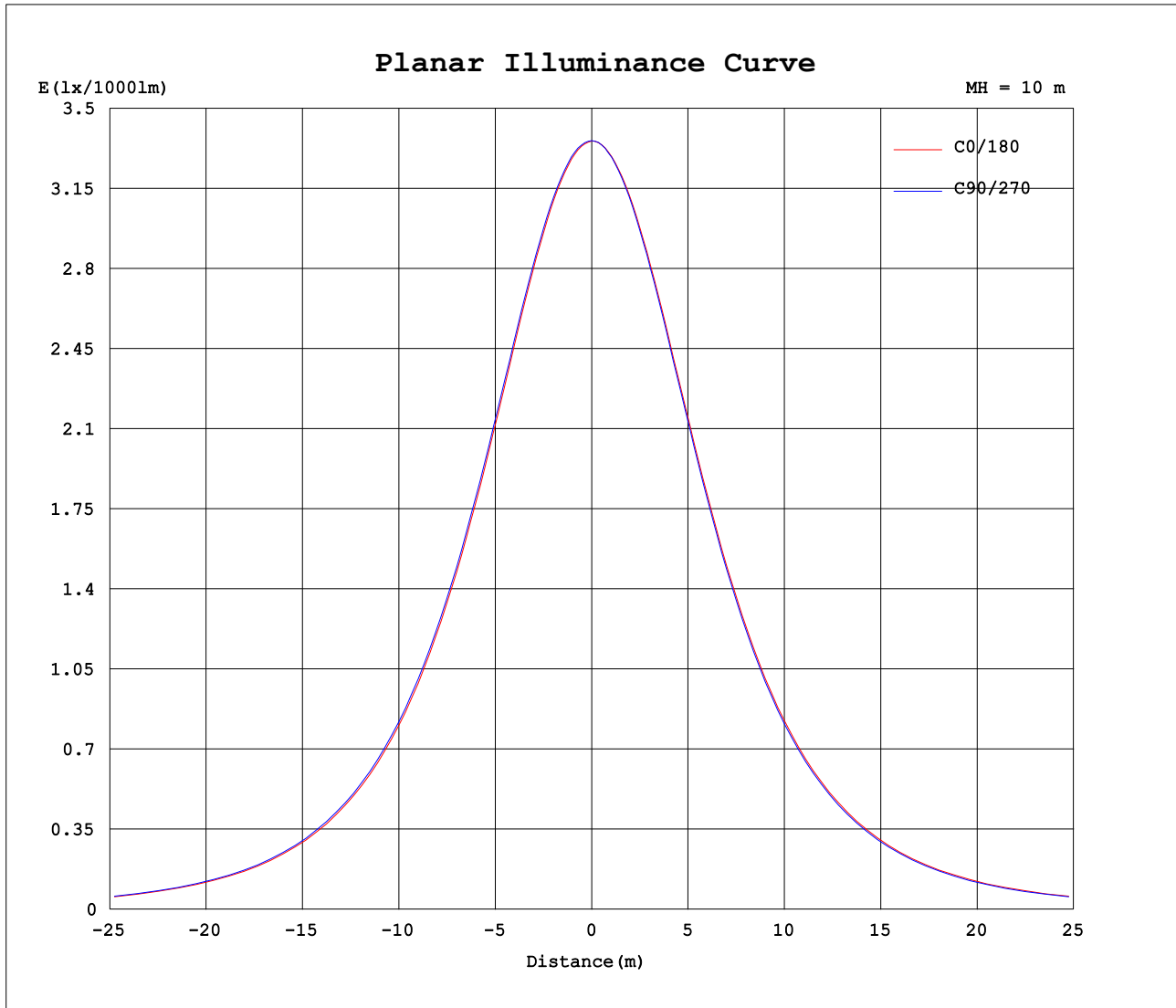
AvgL	cd/m2
L_0~180 (65) av	44445
L_0~180 (75) av	38377
L_0~180 (85) av	29776
L_90~270 (65) av	44402
L_90~270 (75) av	38398
L_90~270 (85) av	25322
L_45 (65) av	44527
L_45 (75) av	38574
L_45 (85) av	31025

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2019-8-1

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.5898A P:14.16W PF:1.000 Freq:0Hz Lamp Flux:1496.32x1 lm		
NAME: UB-AS-27K90C-24V	TYPE:LED Strip	WEIGHT:Kg
SPEC.:14.4W	DIM.: 1000*10*2(MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120

Table--1

UNIT: cd/klm

C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336			
5	334	334	334	334	334	334	335	335	335	335	335	334	334	334	334	334			
10	329	330	330	330	331	331	331	331	331	331	331	330	330	330	330	330			
15	322	323	323	324	324	325	324	324	325	324	324	323	323	323	323	323			
20	312	313	314	314	315	316	315	315	316	315	315	314	314	313	313	313			
25	300	301	302	303	303	304	304	304	304	303	303	302	302	301	301	301			
30	285	287	287	289	289	290	290	290	290	289	289	288	287	287	287	287			
35	268	270	270	272	272	273	273	273	274	272	272	270	271	270	270	270			
40	249	251	251	253	253	254	254	254	254	253	253	251	251	250	251	251			
45	228	229	230	232	232	233	232	232	233	232	231	229	230	229	229	229			
50	204	206	207	208	209	210	209	209	210	208	207	206	206	205	206	206			
55	179	181	182	183	183	184	183	183	184	182	182	180	180	180	181	181			
60	152	154	155	156	156	157	156	156	157	155	154	152	153	152	154	154			
65	124	126	127	128	128	128	127	126	127	126	124	123	123	124	125	126			
70	94.7	96.7	97.6	98.5	98.3	98.6	97.5	96.3	96.8	95.2	94.5	93.4	93.5	92.3	95.4	96.4			
75	65.5	67.7	68.4	69.6	69.1	69.5	67.7	66.4	67.3	64.5	64.4	64.1	63.8	64.8	66.4	67.1			
80	38.6	40.8	41.6	43.0	42.2	42.6	39.4	38.9	39.6	37.6	36.6	37.4	33.8	38.5	39.6	39.9			
85	17.1	18.9	19.7	20.7	19.5	19.6	18.1	17.5	17.6	16.6	16.4	14.3	10.0	17.3	18.1	18.2			
90	4.84	5.75	6.17	6.27	2.16	5.63	5.31	4.85	4.62	4.58	4.74	3.72	0.46	4.58	5.62	5.60			
95	1.22	1.66	1.89	1.61	0.71	1.61	1.73	1.38	1.03	1.35	1.59	1.20	0.61	1.28	1.72	1.53			
100	0.88	1.14	1.23	0.89	0.87	0.96	1.23	1.09	0.74	1.02	1.10	0.82	0.79	0.76	1.01	0.87			
105	1.03	1.11	1.07	1.06	1.10	1.13	1.12	1.12	0.88	1.00	1.01	0.99	0.99	0.91	0.91	0.88			
110	1.19	1.20	1.21	1.27	1.32	1.35	1.30	1.25	1.04	1.11	1.16	1.20	1.20	1.11	1.06	0.98			
115	1.37	1.39	1.41	1.48	1.53	1.56	1.51	1.46	1.24	1.31	1.38	1.42	1.41	1.31	1.26	1.16			
120	1.58	1.59	1.57	1.69	1.74	1.77	1.72	1.67	1.45	1.53	1.60	1.64	1.62	1.52	1.46	1.41			
125	1.79	1.81	1.82	1.89	1.94	1.97	1.92	1.89	1.66	1.74	1.82	1.84	1.82	1.72	1.66	1.63			
130	1.98	2.01	2.03	2.08	2.12	2.16	2.12	2.09	1.86	1.93	2.02	2.04	2.01	1.91	1.86	1.83			
135	2.17	2.19	2.21	2.26	2.30	2.33	2.31	2.28	2.05	2.11	2.20	2.21	2.19	2.09	2.04	2.03			
140	2.36	2.37	2.39	2.43	2.46	2.49	2.47	2.46	2.24	2.29	2.38	2.39	2.36	2.27	2.23	2.22			
145	2.55	2.55	2.57	2.59	2.63	2.65	2.64	2.64	2.44	2.47	2.56	2.55	2.53	2.46	2.42	2.43			
150	2.72	2.72	2.72	2.76	2.77	2.79	2.79	2.81	2.63	2.65	2.73	2.72	2.68	2.63	2.60	2.62			
155	2.86	2.85	2.87	2.88	2.89	2.91	2.91	2.93	2.80	2.78	2.85	2.83	2.80	2.75	2.75	2.77			
160	2.98	2.96	2.96	2.97	2.98	2.99	3.00	3.04	2.93	2.88	2.97	2.94	2.91	2.86	2.86	2.90			
165	3.08	3.05	3.06	3.05	3.04	3.06	3.07	3.12	3.02	2.99	3.06	3.03	3.01	2.95	2.97	3.01			
170	3.14	3.12	3.12	3.10	3.10	3.11	3.13	3.19	3.10	3.06	3.13	3.09	3.09	3.03	3.05	3.09			
175	3.16	3.14	3.15	3.14	3.14	3.14	3.15	3.21	3.12	3.10	3.14	3.12	3.11	3.08	3.09	3.14			
180	3.15	3.12	3.16	3.13	3.12	3.11	3.14	3.17	3.14	3.12	3.15	3.13	3.11	3.10	3.13	3.16			

C Range: 0 - 360DEG  
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γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]