









WEC AND CCEC

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(MM)	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	.314	.179	.057	.307	.175	.056	.293	.168	.054	.280	.162	.052	.268	.156	.050	
2.0	.295	.162	.050	.288	.159	.049	.276	.154	.048	.265	.148	.046	.254	.144	.045	
3.0	.273	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040	
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.203	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.147	.074	.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	.200	.200	.200	.171	.171	.171	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.190	.165	.143	.162	.142	.123	.111	.098	.085	.064	.056	.050	.020	.018	.016	
2.0	.182	.141	.107	.156	.122	.092	.107	.084	.064	.062	.049	.038	.020	.016	.012	
3.0	.174	.124	.083	.149	.107	.072	.103	.074	.051	.059	.043	.030	.019	.014	.010	
4.0	.167	.110	.067	.143	.095	.059	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.100	.056	.137	.087	.049	.094	.060	.035	.055	.036	.021	.018	.012	.007	
6.0	.152	.092	.048	.131	.079	.042	.090	.056	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.085	.043	.125	.074	.037	.086	.052	.026	.050	.030	.016	.016	.010	.005	
8.0	.139	.079	.038	.120	.069	.033	.083	.048	.024	.048	.028	.014	.016	.009	.005	
9.0	.133	.074	.035	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.127	.070	.032	.109	.061	.028	.076	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-11-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm										
NAME: UB-AT1-DYN276295C					TYPE: LED Strip			WEIGHT: 0.01 Kg		
SPEC.: 5.84W					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	26.6	28.2	27.0	28.6	28.9	26.2	27.8	26.6	28.1	28.5
3H	28.4	29.9	28.8	30.3	30.7	27.8	29.3	28.2	29.7	30.1
4H	29.1	30.5	29.5	30.9	31.3	28.4	29.8	28.9	30.2	30.6
6H	29.6	30.8	30.0	31.2	31.7	28.9	30.1	29.3	30.5	30.9
8H	29.7	30.9	30.1	31.3	31.8	29.0	30.2	29.4	30.6	31.0
12H	29.8	31.0	30.2	31.4	31.8	29.0	30.2	29.5	30.6	31.1
4H 2H	27.2	28.6	27.6	29.0	29.4	26.8	28.2	27.2	28.6	29.0
3H	29.3	30.4	29.7	30.8	31.3	28.7	29.8	29.1	30.3	30.7
4H	30.0	31.1	30.5	31.5	32.0	29.4	30.4	29.8	30.9	31.3
6H	30.6	31.5	31.1	32.0	32.5	29.9	30.8	30.4	31.3	31.8
8H	30.8	31.6	31.3	32.1	32.6	30.1	30.9	30.5	31.4	31.9
12H	30.9	31.7	31.4	32.2	32.7	30.2	30.9	30.7	31.4	31.9
8H 4H	30.3	31.2	30.8	31.6	32.1	29.7	30.6	30.2	31.0	31.5
6H	31.0	31.7	31.5	32.2	32.7	30.3	31.1	30.8	31.6	32.1
8H	31.3	31.9	31.8	32.4	32.9	30.5	31.2	31.1	31.7	32.2
12H	31.5	32.0	32.0	32.6	33.1	30.7	31.3	31.2	31.8	32.4
12H 4H	30.3	31.1	30.8	31.6	32.1	29.7	30.5	30.2	31.0	31.5
6H	31.1	31.7	31.6	32.2	32.7	30.4	31.1	30.9	31.5	32.1
8H	31.4	31.9	31.9	32.4	33.0	30.7	31.2	31.2	31.7	32.3
CIE190: 2010										

CIE190: 2010  
Area: 0.005 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.0DEG  
Test Date:2020-11-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:7.000m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(MM)	Shielding Angle: 120

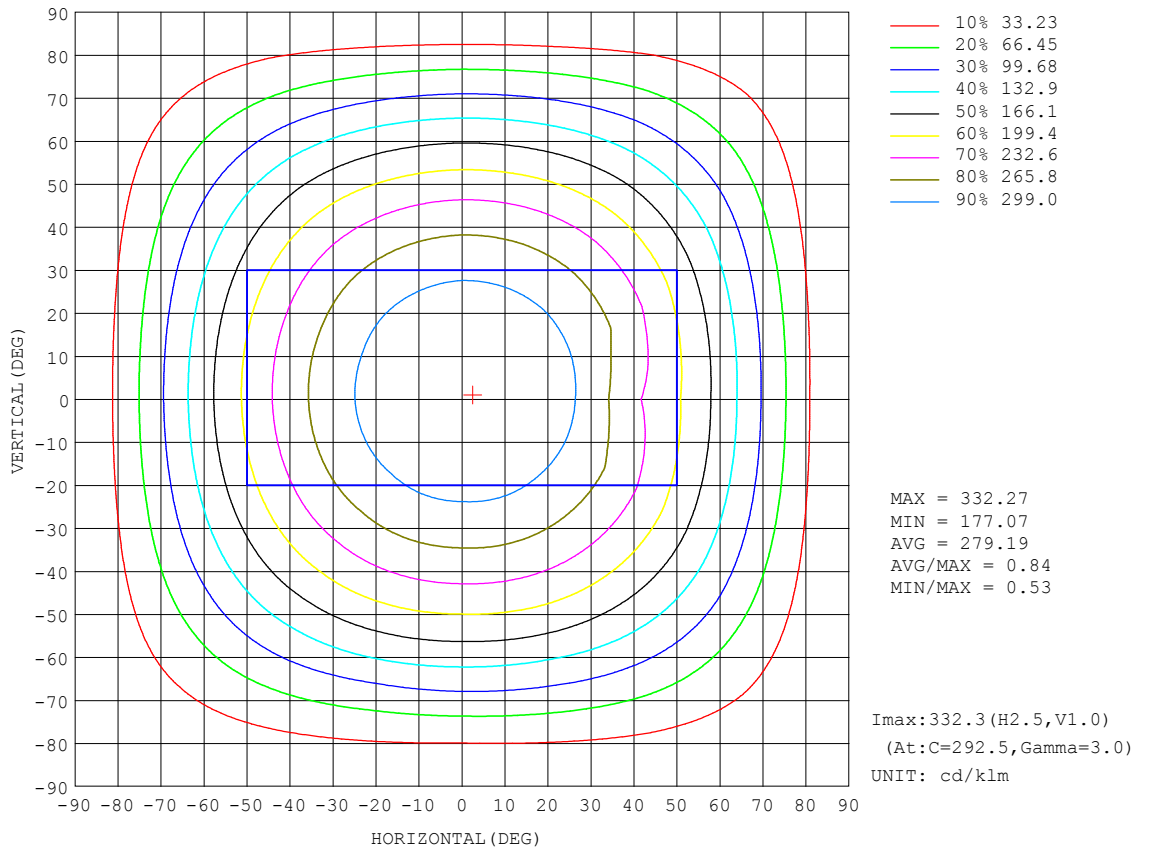
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	54	44	37	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	81
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:2020-11-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (MM)	Shielding Angle: 120



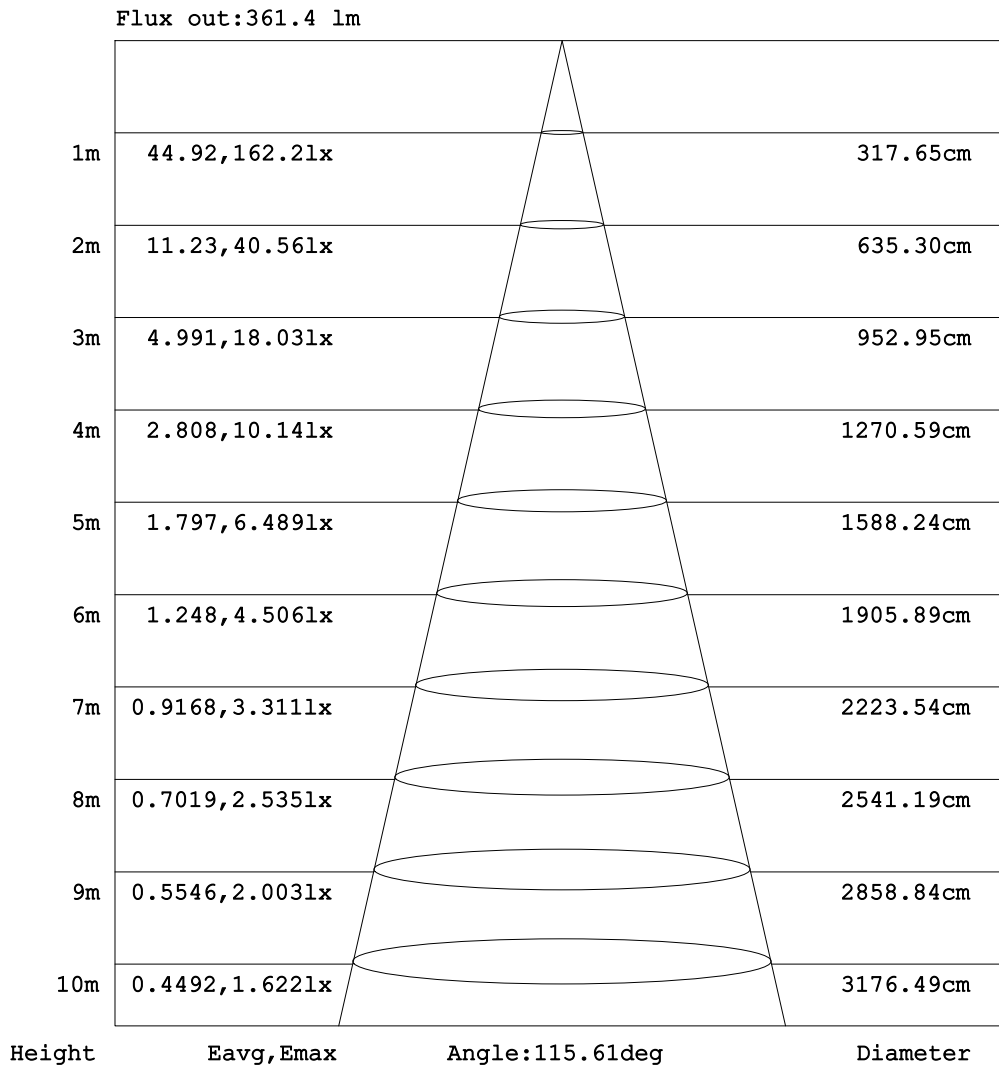
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Test Date: 2020-11-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (MM)	Shielding Angle: 120



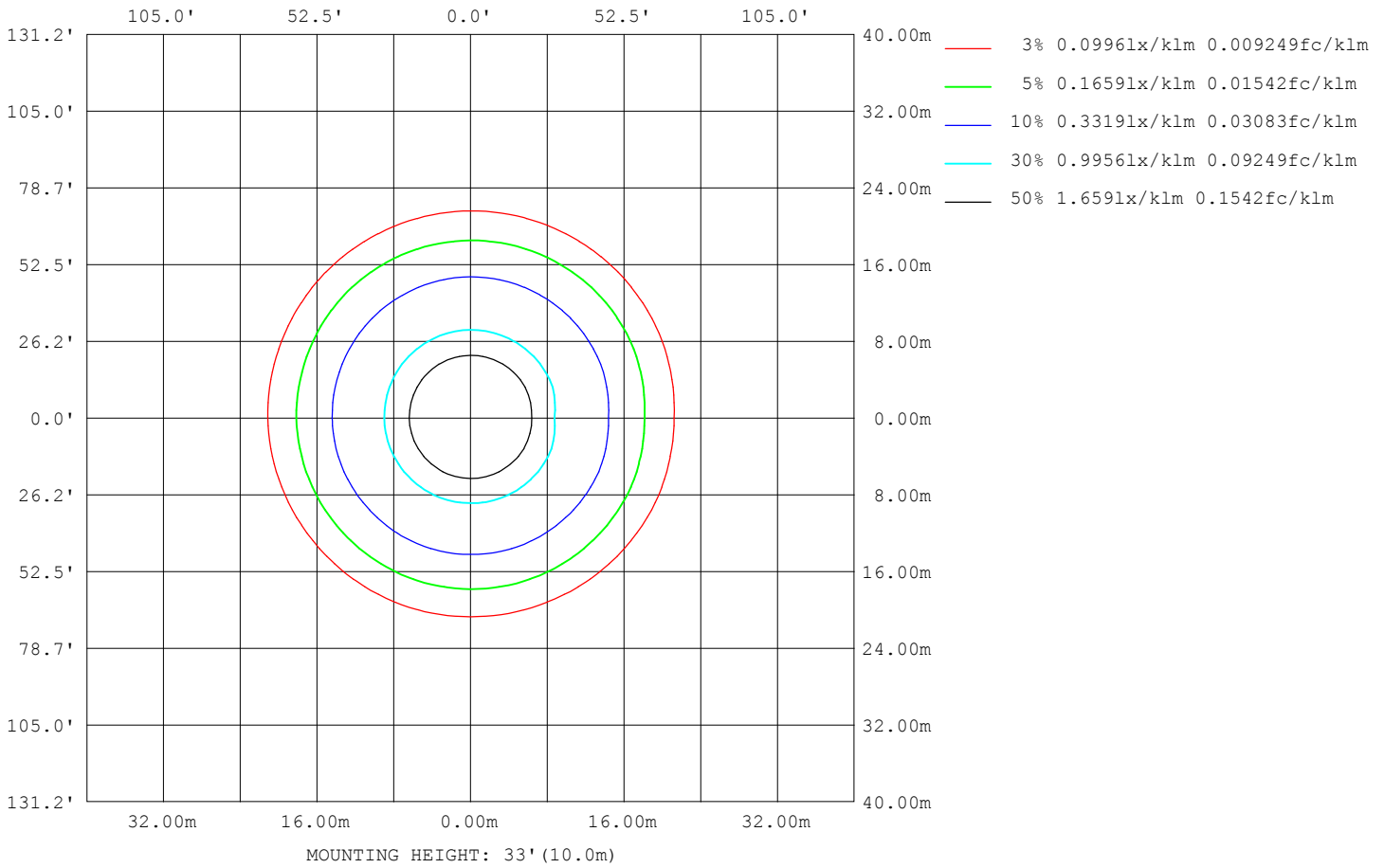
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-11-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	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:2020-11-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(MM)	Shielding Angle: 120

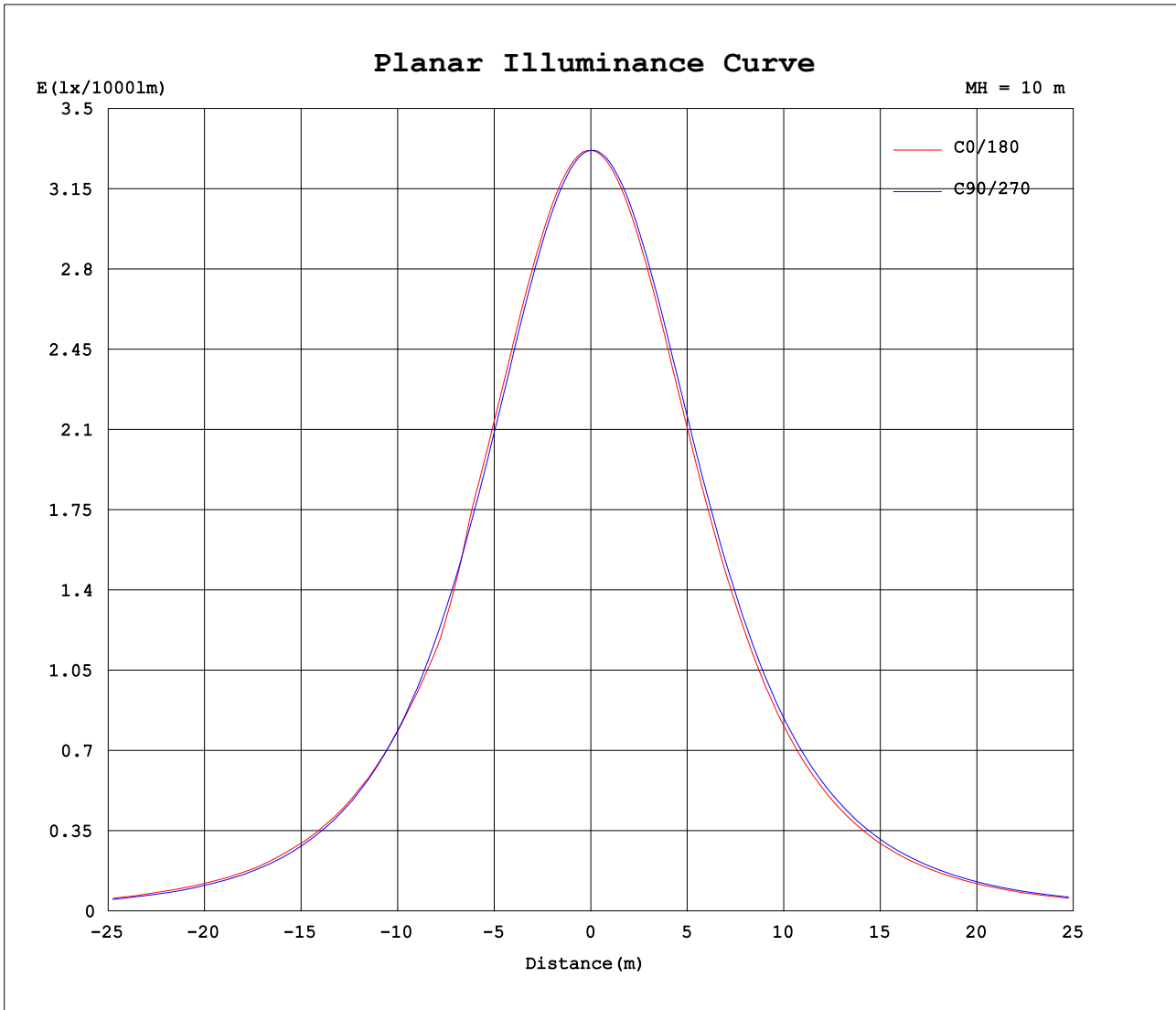
AvgL	cd/m2
L_0~180 (65) av	29163
L_0~180 (75) av	25660
L_0~180 (85) av	18768
L_90~270 (65) av	29054
L_90~270 (75) av	25616
L_90~270 (85) av	17795
L_45 (65) av	29313
L_45 (75) av	25889
L_45 (85) av	20897

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-11-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-11-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.2437A P:5.8486W PF:1.0000 Freq:0Hz Lamp Flux:488.409x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT: 0.01 Kg
SPEC.: 5.84W	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	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332			
5	331	331	330	330	330	330	330	330	330	331	331	331	332	332	332	332			
10	328	327	326	326	325	325	325	325	326	327	328	328	329	329	329	329			
15	322	321	320	319	318	318	318	318	319	320	322	323	324	324	324	323			
20	314	312	311	310	308	308	308	309	310	312	313	315	316	316	316	315			
25	303	301	299	298	296	296	296	297	299	300	303	304	305	306	306	305			
30	289	288	285	283	281	281	281	283	285	287	289	291	292	293	293	291			
35	260	271	268	267	264	264	264	266	268	270	273	275	277	278	278	276			
40	237	253	249	247	245	245	245	247	250	252	255	257	259	260	260	258			
45	222	232	228	226	223	223	223	225	229	231	235	236	239	239	239	237			
50	203	209	205	202	199	199	200	202	206	208	212	214	216	217	217	215			
55	180	183	179	176	173	174	174	177	181	183	187	189	191	191	192	190			
60	153	156	151	148	146	146	146	149	154	156	160	162	164	164	165	163			
65	127	127	122	118	116	117	118	121	125	128	131	133	135	135	136	134			
70	96.9	97.3	93.3	89.1	87.3	85.4	88.6	91.7	96.1	98.5	102	103	105	106	106	104			
75	69.0	65.2	64.6	61.6	59.5	58.7	60.8	62.7	67.0	69.3	72.6	74.3	76.3	76.4	76.4	73.6			
80	37.9	38.7	38.6	35.5	32.9	34.2	35.4	36.5	39.7	41.9	45.4	46.3	47.2	47.6	48.5	45.2			
85	16.6	17.0	16.0	15.0	11.5	14.3	14.5	15.1	16.9	19.0	21.3	20.2	20.2	20.4	22.7	21.0			
90	3.35	3.10	3.07	2.74	0.58	2.63	2.82	2.99	4.08	4.44	5.04	4.43	4.04	4.24	5.12	4.57			
95	1.75	1.38	1.06	0.84	0.72	0.78	1.12	1.53	2.37	2.17	2.31	2.36	0.55	2.23	1.06	1.92			
100	1.04	0.89	0.85	0.95	0.94	0.99	0.92	0.93	1.67	1.27	1.67	2.04	0.71	0.71	1.32	0.85			
105	1.15	1.05	1.02	1.16	1.16	1.22	1.13	1.12	1.76	1.16	1.52	1.64	0.90	0.84	0.93	0.86			
110	1.35	1.23	1.24	1.37	1.37	1.45	1.36	1.34	1.90	1.18	1.50	1.59	1.11	1.02	1.07	1.01			
115	1.59	1.43	1.42	1.57	1.61	1.66	1.58	1.56	2.03	1.30	1.51	1.31	1.30	1.23	1.23	1.17			
120	1.82	1.64	1.60	1.78	1.80	1.87	1.81	1.78	2.13	1.54	1.58	1.50	1.51	1.42	1.43	1.39			
125	2.06	1.85	1.84	1.98	2.00	2.08	2.00	1.99	2.14	1.74	1.75	1.71	1.71	1.61	1.64	1.62			
130	2.29	2.04	2.04	2.16	2.17	2.26	2.20	2.19	2.01	1.93	1.98	1.90	1.80	1.83	1.85	1.81			
135	2.51	2.22	2.21	2.33	2.33	2.42	2.37	2.37	2.08	2.15	2.17	2.11	2.10	2.02	2.04	2.03			
140	2.73	2.40	2.39	2.49	2.48	2.55	2.50	2.52	2.28	2.31	2.36	2.28	2.29	2.20	2.23	2.22			
145	2.84	2.54	2.51	2.61	2.60	2.68	2.63	2.67	2.47	2.48	2.53	2.43	2.46	2.38	2.40	2.40			
150	2.99	2.69	2.65	2.73	2.73	2.80	2.75	2.80	2.61	2.61	2.65	2.58	2.59	2.50	2.55	2.54			
155	3.16	2.82	2.78	2.85	2.86	2.90	2.87	2.93	2.75	2.71	2.77	2.72	2.71	2.63	2.69	2.70			
160	3.32	2.94	2.89	2.96	2.94	2.99	2.97	3.03	2.97	2.84	2.89	2.81	2.82	2.75	2.82	2.85			
165	3.50	3.05	2.99	3.04	3.00	3.05	3.03	3.12	3.57	2.94	2.99	2.91	2.91	2.86	2.93	2.97			
170	3.56	3.11	3.06	3.07	3.06	3.08	3.09	3.17	3.61	2.97	3.04	2.98	2.98	2.97	3.01	3.07			
175	3.59	3.12	3.08	3.10	3.08	3.09	3.10	3.20	3.65	3.06	3.11	3.03	3.05	3.00	3.08	3.10			
180	3.67	3.12	3.09	3.10	3.09	3.10	3.10	3.20	3.66	3.11	3.12	3.09	3.09	3.09	3.10	3.20			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-11-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks: