

WEC AND CCEC

Test:U:24.000V I:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT:0.01 Kg
SPEC.: 5.88W	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	.178	.057	.306	.175	.055	.292	.168	.054	.279	.161	.052	.268	.155	.050	
2.0	.294	.161	.049	.288	.158	.049	.275	.153	.048	.264	.148	.046	.253	.143	.045	
3.0	.272	.145	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.130	.040	
4.0	.251	.130	.038	.246	.128	.038	.236	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.176	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.165	.085	.025	
9.0	.175	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.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	.121	.092	.107	.084	.064	.062	.049	.038	.020	.016	.012	
3.0	.174	.124	.083	.149	.107	.072	.102	.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	.086	.049	.094	.060	.035	.055	.035	.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	.042	.125	.073	.037	.086	.052	.026	.050	.030	.016	.016	.010	.005	
8.0	.139	.079	.038	.119	.068	.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:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm										
NAME: UB-AT1-DYN276295C					TYPE: LED Strip			WEIGHT:0.01 Kg		
SPEC.: 5.88W					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	26.2	27.8	26.6	28.2	28.5	26.1	27.7	26.5	28.1	28.4
3H	27.9	29.4	28.3	29.7	30.1	27.7	29.2	28.1	29.6	30.0
4H	28.5	29.9	28.9	30.2	30.7	28.3	29.7	28.7	30.1	30.5
6H	28.9	30.2	29.3	30.6	31.0	28.7	30.0	29.1	30.3	30.8
8H	29.0	30.2	29.4	30.6	31.1	28.8	30.0	29.2	30.4	30.8
12H	29.0	30.2	29.5	30.6	31.1	28.8	30.0	29.3	30.4	30.8
4H 2H	26.8	28.1	27.2	28.5	28.9	26.8	28.2	27.2	28.5	28.9
3H	28.7	29.8	29.1	30.3	30.7	28.6	29.8	29.0	30.2	30.6
4H	29.4	30.4	29.8	30.9	31.3	29.3	30.4	29.7	30.8	31.3
6H	29.9	30.8	30.4	31.3	31.8	29.8	30.7	30.2	31.2	31.6
8H	30.0	30.9	30.5	31.4	31.9	29.9	30.8	30.4	31.2	31.7
12H	30.1	30.9	30.6	31.4	31.9	30.0	30.8	30.5	31.3	31.8
8H 4H	29.6	30.5	30.1	30.9	31.4	29.6	30.5	30.1	31.0	31.5
6H	30.2	30.9	30.7	31.5	32.0	30.2	30.9	30.7	31.4	31.9
8H	30.4	31.1	30.9	31.6	32.1	30.4	31.1	30.9	31.6	32.1
12H	30.5	31.1	31.1	31.6	32.2	30.5	31.1	31.1	31.6	32.2
12H 4H	29.6	30.4	30.1	30.9	31.4	29.7	30.4	30.2	30.9	31.4
6H	30.3	30.9	30.8	31.4	32.0	30.3	30.9	30.8	31.4	32.0
8H	30.5	31.1	31.0	31.6	32.2	30.5	31.1	31.0	31.6	32.2
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:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
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SPEC.: 5.88W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(MM)	Shielding Angle: 120

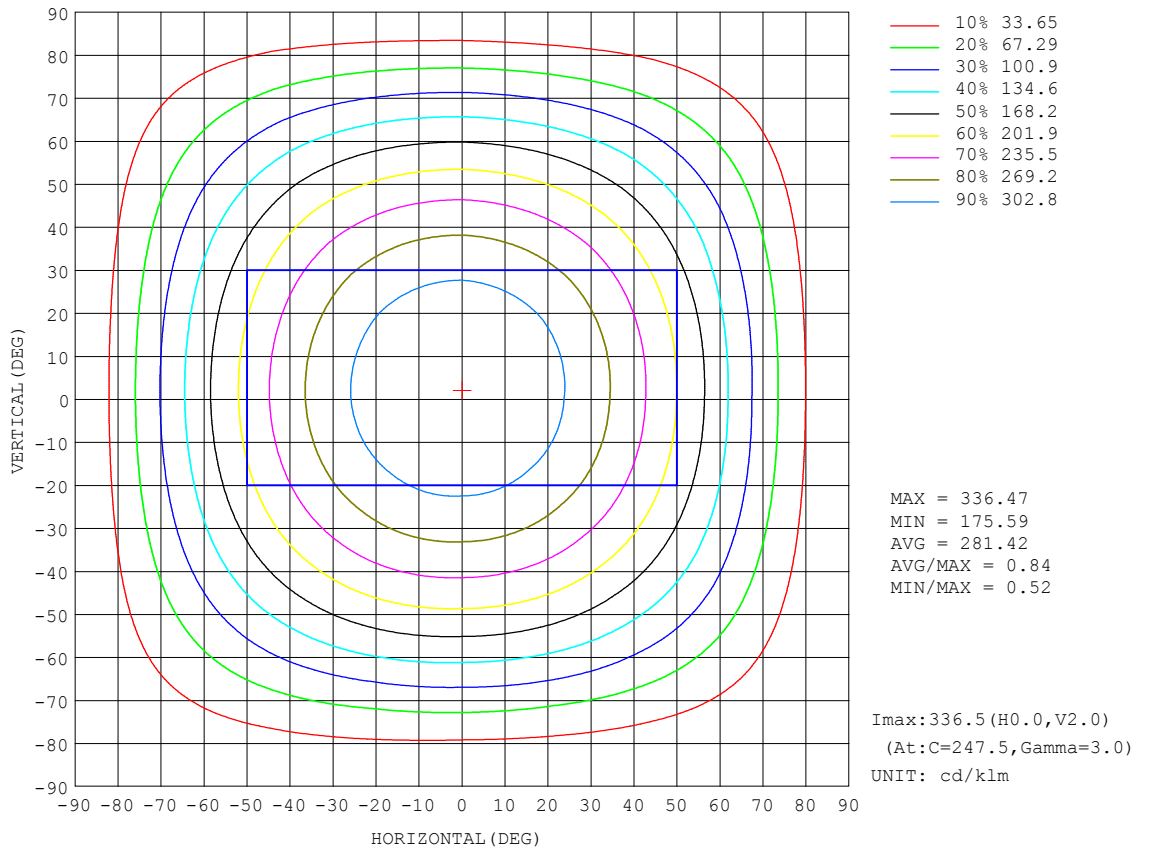
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	54	47	64	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
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 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:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT:0.01 Kg
SPEC.: 5.88W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (MM)	Shielding Angle: 120

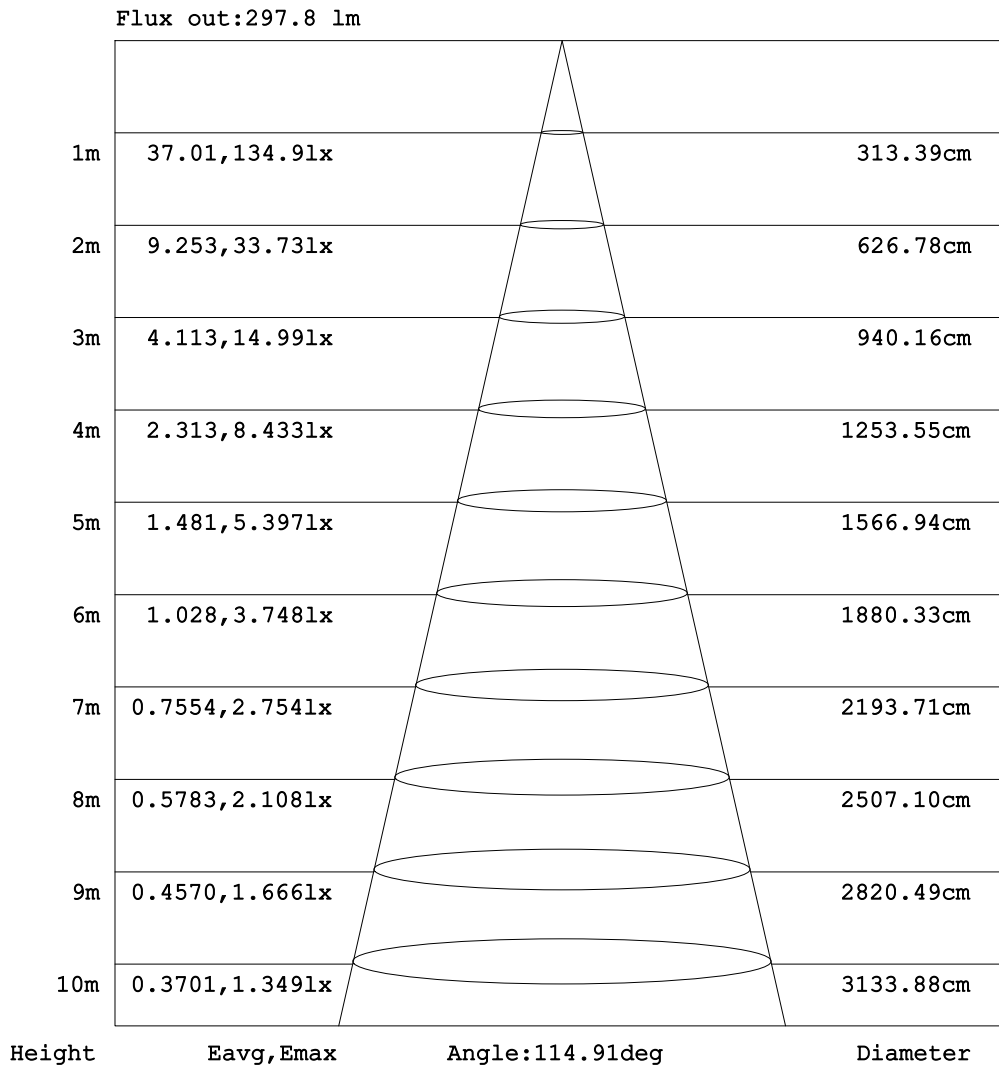


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2020-11-18

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:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT:0.01 Kg
SPEC.: 5.88W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (MM)	Shielding Angle: 120



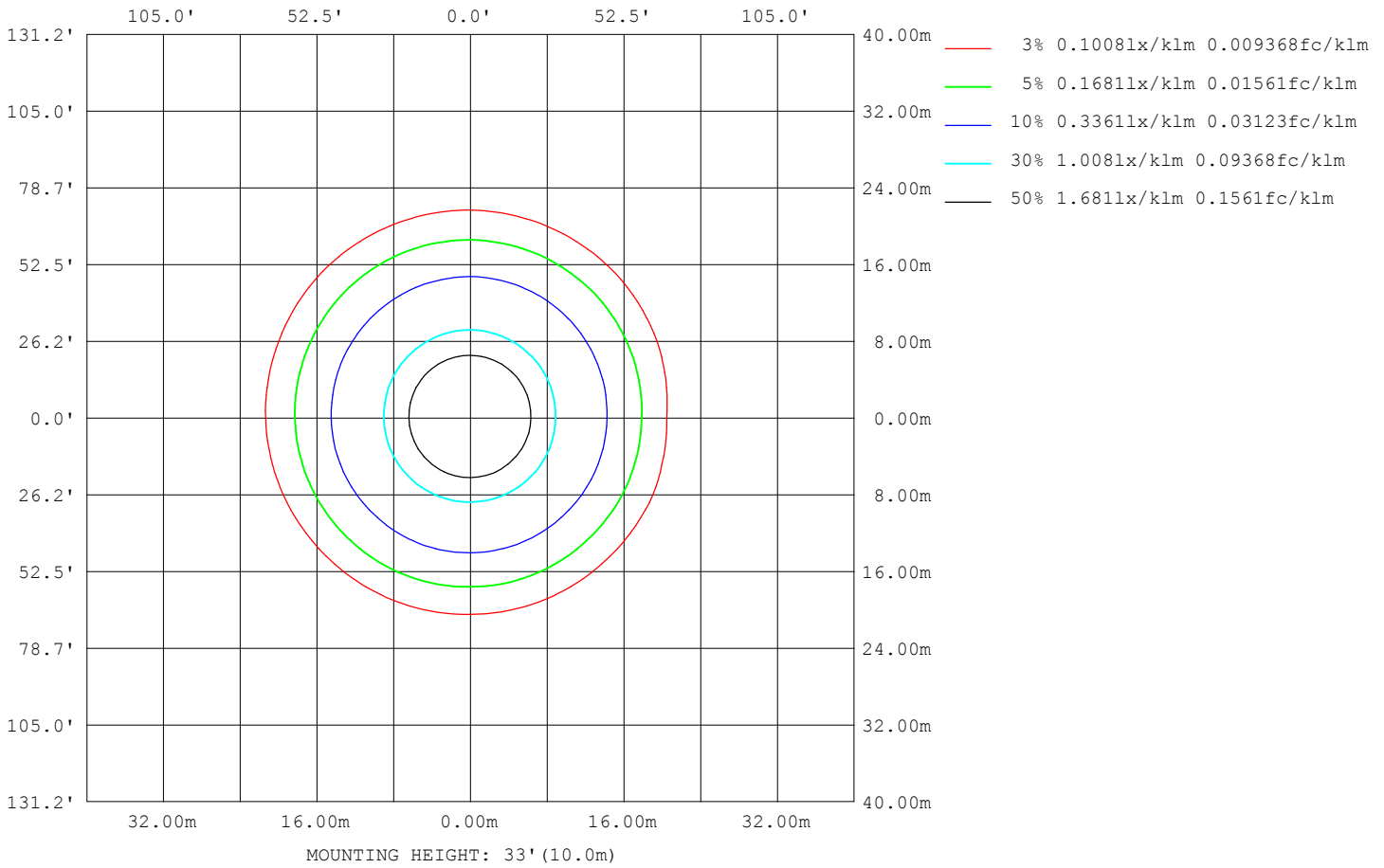
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT:0.01 Kg
SPEC.: 5.88W	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:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT:0.01 Kg
SPEC.: 5.88W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(MM)	Shielding Angle: 120

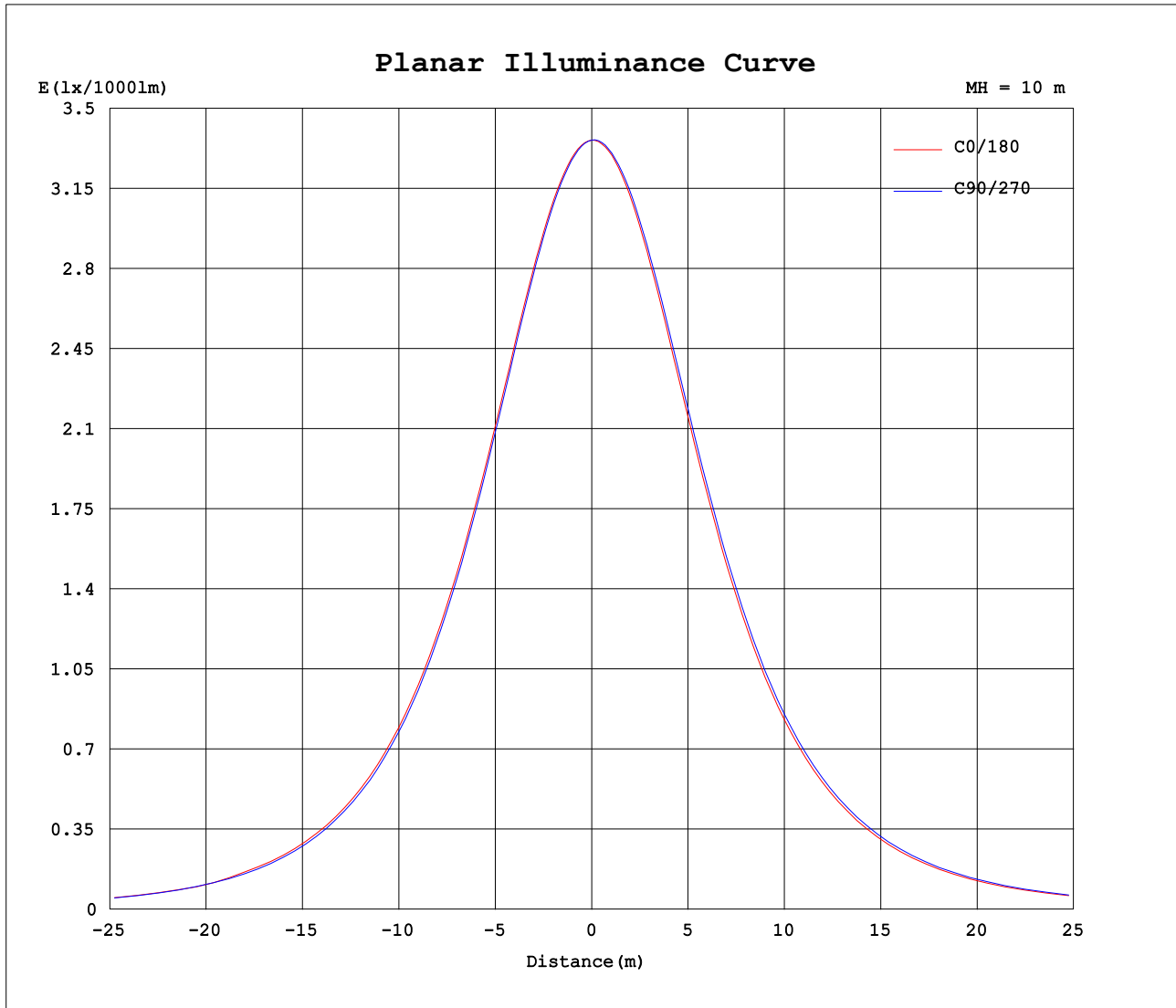
AvgL	cd/m2
L_0~180 (65) av	23369
L_0~180 (75) av	20439
L_0~180 (85) av	14550
L_90~270 (65) av	23859
L_90~270 (75) av	20760
L_90~270 (85) av	16947
L_45 (65) av	23917
L_45 (75) av	20860
L_45 (85) av	16802

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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.2453A P:5.8867W PF:1.0000 Freq:0Hz Lamp Flux:401.3x1 lm		
NAME: UB-AT1-DYN276295C	TYPE: LED Strip	WEIGHT:0.01 Kg
SPEC.: 5.88W	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	333	333	333	334	334	335	335	336	336	336	336	336	335	335			
10	329	329	328	328	328	329	329	331	332	333	333	334	334	333	332	331			
15	322	321	320	320	320	321	322	324	325	327	328	328	328	327	326	324			
20	312	311	309	309	309	311	312	314	316	318	320	320	320	319	317	315			
25	299	298	296	296	296	298	299	302	305	307	309	310	310	308	306	303			
30	284	282	280	280	280	282	284	288	291	293	296	296	296	294	292	288			
35	267	265	262	262	262	265	267	271	274	277	280	281	280	278	275	271			
40	247	245	242	242	242	245	247	251	255	259	262	262	262	260	257	252			
45	225	223	220	220	220	223	225	230	235	238	241	242	242	239	236	230			
50	201	199	196	195	195	199	202	207	211	215	219	219	219	216	212	207			
55	176	173	170	169	169	173	176	181	187	190	194	194	194	191	187	182			
60	148	145	142	141	142	145	149	154	160	164	167	168	167	164	160	154			
65	114	116	113	113	113	116	120	126	132	136	139	139	138	135	131	125			
70	86.0	87.0	83.9	82.8	83.6	84.8	90.8	96.6	102	106	110	110	109	105	102	95.6			
75	59.1	57.9	55.4	54.0	55.0	57.4	62.0	67.2	72.8	76.6	79.7	79.8	78.9	75.6	72.0	66.5			
80	33.1	31.7	30.0	29.6	29.7	32.8	35.6	39.7	44.5	48.1	51.1	51.2	50.5	47.5	44.2	38.7			
85	11.4	10.4	10.8	11.3	10.5	13.3	14.7	17.0	20.2	23.2	26.4	26.9	26.3	23.9	21.1	16.2			
90	2.47	2.42	2.48	2.46	0.61	2.95	3.33	3.52	4.17	6.18	8.81	9.87	8.52	8.52	6.49	3.88			
95	1.64	1.44	1.12	0.88	0.74	0.82	1.15	1.33	1.39	2.02	2.49	2.31	0.53	2.29	1.26	1.93			
100	0.92	0.92	0.93	1.01	0.97	1.00	0.97	0.91	0.90	1.05	1.47	1.83	0.67	1.38	0.74	0.86			
105	1.02	1.08	1.08	1.21	1.21	1.23	1.10	1.09	1.01	0.98	1.33	1.45	0.86	0.82	1.03	0.92			
110	1.22	1.27	1.27	1.41	1.41	1.45	1.31	1.30	1.15	1.04	1.27	1.24	1.07	0.98	1.04	1.00			
115	1.40	1.49	1.49	1.62	1.64	1.66	1.52	1.51	1.24	1.24	1.35	1.21	1.26	1.19	1.25	1.18			
120	1.64	1.69	1.65	1.83	1.83	1.88	1.76	1.73	1.45	1.39	1.48	1.42	1.48	1.38	1.44	1.41			
125	1.84	1.88	1.89	2.02	2.04	2.08	1.98	1.94	1.66	1.62	1.70	1.65	1.67	1.59	1.65	1.66			
130	2.04	2.09	2.09	2.20	2.22	2.27	2.17	2.16	1.91	1.81	1.90	1.84	1.87	1.79	1.84	1.84			
135	2.21	2.11	2.25	2.36	2.36	2.42	2.32	2.35	2.20	2.00	2.12	2.05	2.06	1.99	2.04	2.07			
140	2.38	2.41	2.40	2.52	2.51	2.58	2.49	2.52	2.40	2.21	2.31	2.23	2.26	2.18	2.25	2.24			
145	2.55	2.57	2.57	2.67	2.63	2.72	2.63	2.67	2.58	2.37	2.48	2.38	2.44	2.38	2.41	2.42			
150	2.72	2.71	2.70	2.78	2.78	2.83	2.76	2.80	2.74	2.52	2.62	2.53	2.59	2.49	2.58	2.58			
155	2.87	2.85	2.82	2.90	2.87	2.94	2.87	2.96	2.87	2.64	2.75	2.66	2.71	2.65	2.72	2.72			
160	2.97	2.94	2.93	2.99	2.94	3.02	2.95	3.04	3.01	2.77	2.88	2.79	2.82	2.77	2.83	2.86			
165	3.08	3.04	3.02	3.06	3.00	3.06	3.05	3.13	3.10	2.92	2.99	2.91	2.93	2.87	2.95	2.95			
170	3.17	3.08	3.06	3.08	3.05	3.08	3.09	3.20	3.14	2.94	3.06	2.94	3.00	2.94	3.02	3.04			
175	3.21	3.09	3.11	3.08	3.07	3.08	3.14	3.22	3.21	3.01	3.10	3.02	3.07	3.03	3.07	3.08			
180	3.22	3.09	3.13	3.08	3.07	3.08	3.15	3.21	3.21	3.07	3.11	3.08	3.10	3.08	3.11	3.20			

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γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.429
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: