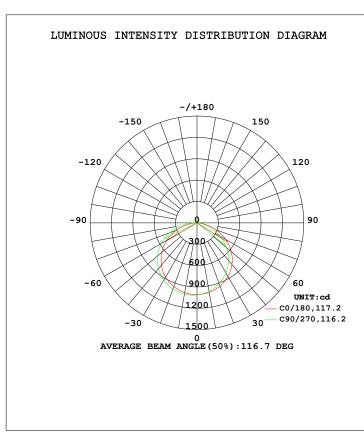
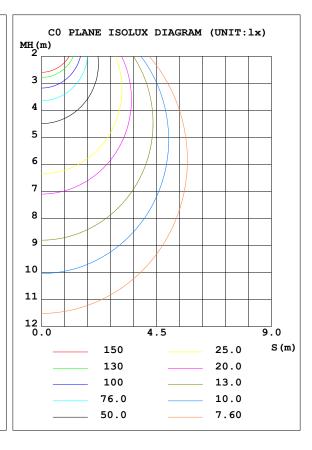


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Fr	eq:0Hz Lamp Flux:3069.51x1 lm	1
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120

DATA OF LA	MP	PHOTOMETRIC DATA Eff: 146.5								
MODEL		Imax (cd)	1018	S/MH (C0/180)	1.30					
NOMINAL POWER (W)		LOR(%)	100.0	S/MH (C90/270)	1.36					
RATED VOLTAGE (V)		TOTAL FLUX(lm)	3069.5	η UP,DN(C0-180)	0.3,45.1					
NOMINAL FLUX(lm)	3069.51	CIE CLASS DIRECT η UP, DN (C180-360)			0.6,54.0					
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	1.25					
TEST VOLTAGE (V)		η down(%) 99.1 CIBSE SHR MAX			1.35					





C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

γ Range: 0 - 180DEG γ Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444

Humidity:65.0%

Test Distance:8.700m [K=1.0000]



ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270		γ	Φ zone	Φ total	%lum,lam
10	990.8	976.6	994.9	1016		0- 10	95.68	95.68	3.12,3.12
20	944.2	906.2	952.5	988.2		10- 20	275.3	371.0	12.1,12.1
30	868.4	813.0	880.7	930.3		20- 30	421.4	792.4	25.8,25.8
40	763.0	690.9	776.0	842.1		30- 40	515.8	1308	42.6,42.6
50	629.1	540.6	646.6	725.0		40- 50	543.7	1852	60.3,60.3
60	468.7	374.9	492.5	578.6		50- 60	500.3	2352	76.6,76.6
70	286.4	200.2	312.9	408.9		60- 70	386.4	2739	89.2,89.2
80	109.6	65.87	133.2	222.4		70- 80	226.0	2965	96.6,96.6
90	1.106	11.88	5.506	75.60		80- 90	77.65	3042	99.1,99.1
100	1.182	1.712	1.306	9.468		90-100	11.88	3054	99.5,99.5
110	1.736	2.205	1.861	2.070		100-110	2.340	3056	99.6,99.6
120	2.388	2.698	2.501	2.054		110-120	2.172	3059	99.6,99.6
130	2.992	3.277	3.117	2.537		120-130	2.414	3061	99.7,99.7
140	3.510	3.794	3.646	3.128		130-140	2.518	3064	99.8,99.8
150	3.953	4.163	4.077	3.658		140-150	2.347	3066	99.9,99.9
160	4.286	4.508	4.372	4.089		150-160	1.909	3068	99.9,99.9
170	4.495	4.791	4.607	4.508		160-170	1.262	3069	100,100
180	4.680	4.828	4.680	4.779		170-180	0.4449	3070	100,100
DEG		1	1	LUMINOU	INTENSITY:cd	'	UNI	T:lm	

Humidity:65.0%



LUMINANCE LIMITATION CURVES

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Fr	eq:0Hz Lamp Flux:3069.51x1 lm	1
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120

GLARE	CLASS			ILI	UMINANCE (lx)			
1.15	A	2000	1000	500	<=300				
1.50	В		2000	1000	500	<=300			
1.85	С			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
75 a	b c d	e f	g	h					8 6 6 4 3 a/1

LUMI	NANCE cd/(m2)
G (DEG)	C0/180	C90/270
85	47110	33185
80	63102	37936
75	74862	48871
70	83729	58547
65	89632	66388
60	93733	74988
55	96288	80386
50	97874	84109
45	98914	87560

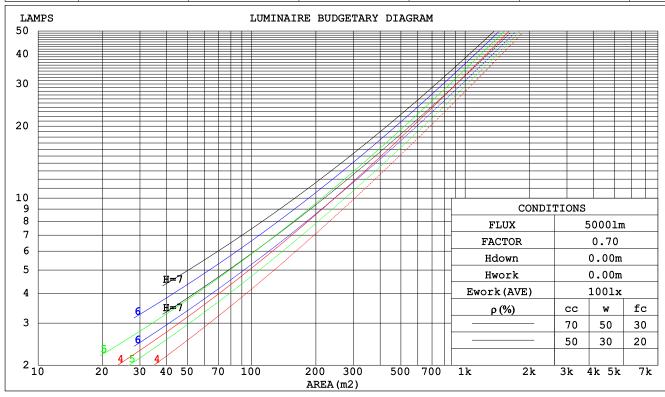
Humidity:65.0%

Test Distance:8.700m [K=1.0000]



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ραα		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:R	oom Cav	ity Rat	io		Coe	fficie	nts of	Utiliza	tion(C	U)					
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.82	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.56	.51	.60	.55	.51	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.44	.54	.48	.44	.42
6.0	.55	.46	.40	.54	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444

Humidity:65.0%

Test Distance:8.700m [K=1.0000]

γ Range: 0 - 180DEG γ Interval: 1.0DEG



WEC AND CCEC

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Fr	eq:0Hz Lamp Flux:3069.51x1 lm	1
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	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:F	Room C	avity	Ratio				Wall	Exita	nce Co	effci	ents (W	IEC)			
0.0																
1.0	.320	.182	.058	.313	.178	.057	.299	.172	.055	.286	.165	.053	.275	.159	.051	
2.0	.298	.164	.050	.292	.161	.050	.280	.156	.048	.268	.151	.047	.258	.146	.046	
3.0	.275	.146	.044	.269	.144	.043	.258	.140	.043	.248	.136	.042	.239	.132	.041	
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.229	.117	.034	.220	.115	.034	.212	.112	.033	.205	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030	
7.0	.201	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.092	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.074	.021	

ραα		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:F	loom C	avity	Ratio		C	Ceilin	g Cav	ity Ex	itanc	e Coef	ficie	nts(CC	CEC)		
0.0	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.188	.163	.140	.161	.140	.121	.110	.096	.084	.063	.056	.049	.020	.018	.016	
2.0	.180	.139	.104	.154	.119	.090	.106	.083	.063	.061	.048	.037	.020	.016	.012	
3.0	.172	.121	.081	.148	.105	.070	.101	.073	.049	.059	.042	.029	.019	.014	.009	
4.0	.165	.108	.065	.141	.093	.056	.097	.065	.040	.056	.038	.023	.018	.012	.008	
5.0	.157	.098	.054	.135	.085	.047	.093	.059	.033	.054	.035	.020	.017	.011	.006	
6.0	.150	.089	.046	.129	.077	.040	.089	.054	.028	.052	.032	.017	.017	.010	.006	
7.0	.143	.082	.040	.123	.071	.035	.085	.050	.025	.049	.030	.015	.016	.010	.005	
8.0	.137	.077	.035	.118	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004	
9.0	.131	.072	.032	.112	.062	.028	.078	.044	.020	.045	.026	.012	.015	.008	.004	
10.0	.125	.067	.029	.108	.059	.026	.075	.041	.018	.044	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

γ Range: 0 - 180DEG γ Interval: 1.0DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444

Humidity:65.0%

Test Distance:8.700m [K=1.0000]

Remarks:



UGR (Unified Glare Rating) Table

NAME: UB	-IS-62K9	90C				TYPE: LED	Strip		WEIGHT:			
SPEC.: 2	1.7W					DIM.: 1000	*10*2 (MM	i)	SERIAL No.: 001			
MFR.: Fl	exfire I	EDs, Inc				SUR.: 0.01	*1		Shielding Angle: 120			
ceiling/c	avity	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	
oom dimer	nsions		Viewe	d crossw	ise			Vie	ewed endwi	se		
= 2H y	= 2H	24.5	26.1	24.8	26.3	26.5	23.8	25.3	24.0	25.5	25.7	
	3н	26.0	27.4	26.3	27.7	27.9	24.9	26.3	25.2	26.6	26.8	
	4H	26.6	27.9	26.9	28.2	28.5	25.3	26.6	25.6	26.9	27.2	
	6Н	26.9	28.2	27.3	28.5	28.8	25.5	26.7	25.8	27.0	27.3	
	8Н	27.0	28.3	27.4	28.6	28.9	25.5	26.7	25.9	27.0	27.3	
	12H	27.1	28.3	27.4	28.6	28.9	25.5	26.7	25.9	27.0	27.3	
4H	2Н	25.0	26.3	25.3	26.6	26.9	24.4	25.7	24.7	26.0	26.	
	ЗН	26.7	27.8	27.0	28.1	28.5	25.7	26.9	26.1	27.2	27.	
	4H	27.3	28.4	27.7	28.7	29.1	26.2	27.3	26.6	27.6	28.0	
	6Н	27.8	28.8	28.2	29.1	29.5	26.5	27.4	26.9	27.8	28.2	
	8Н	27.9	28.8	28.4	29.2	29.6	26.6	27.5	27.0	27.8	28.2	
	12H	28.0	28.8	28.5	29.2	29.7	26.6	27.4	27.0	27.8	28.3	
8н	4H	27.5	28.4	27.9	28.7	29.2	26.4	27.3	26.9	27.7	28.	
	6н	28.1	28.8	28.5	29.2	29.7	26.9	27.6	27.3	28.0	28.	
	8н	28.3	28.9	28.7	29.4	29.8	27.0	27.7	27.5	28.1	28.	
	12H	28.4	29.0	28.9	29.4	29.9	27.1	27.7	27.6	28.1	28.	
12H	4H	27.5	28.3	27.9	28.7	29.1	26.5	27.3	26.9	27.7	28.	
	6Н	28.1	28.7	28.6	29.2	29.7	26.9	27.6	27.4	28.0	28.	
	8н	28.3	28.9	28.8	29.4	29.8	27.1	27.6	27.6	28.1	28.	
ariations with the observer position at spaci						(CIE Pub.	117):					
S = 1.	ОН		+ 0	.2 / - 0	.2			+	0.2 / - 0.	.3		
1.	5H		+ 0	.2 / - 0	.3			+	0.3 / - 0.	. 4		
2.	ОН		+ 0	.3 / - 0	. 4			+	0.2 / - 0.	. 4		

CIE Pub.117, 3070 lm Total Lamp Luminous Flux Correct $(8\log(F/F0) = 3.9)$ Area: 0.01 m2

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Test Date:2023-07-22

γ Range: 0 - 180DEG γ Interval: 1.0DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444

Humidity:65.0%

Test Distance:8.700m [K=1.0000]



UTILIZATION FACTORS TABLE

				REFLEC	CTANCE								
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) x RCR = 5											
k = 0.60	56	45	37	56	44	37	54	44	37	31			
0.80	66	54	47	65	54	47	63	53	46	39			
1.00	75	63	56	74	63	56	71	64	55	48			
1.25	82	71	64	80	70	63	78	69	63	55			
1.50	87	77	70	85	76	69	82	74	68	60			
2.00	94	85	78	92	84	78	88	82	76	68			
2.50	98	90	84	96	88	83	92	86	81	72			
3.00	101	94	88	99	93	87	95	90	85	76			
4.00	105	100	95	103	98	93	99	94	90	81			
5.00	108	103	99	105	101	97	101	97	94	84			
ROOM INDEX		ı		UF (to	otal)	1	1	1		Direct			
According to Di	' IN EN 13032	2-2 2004			Susp	ended			SHRNOM =	1.25			

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22 γ Range: 0 - 180DEG γ Interval: 1.0DEG

y Interval: 1.0000 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444

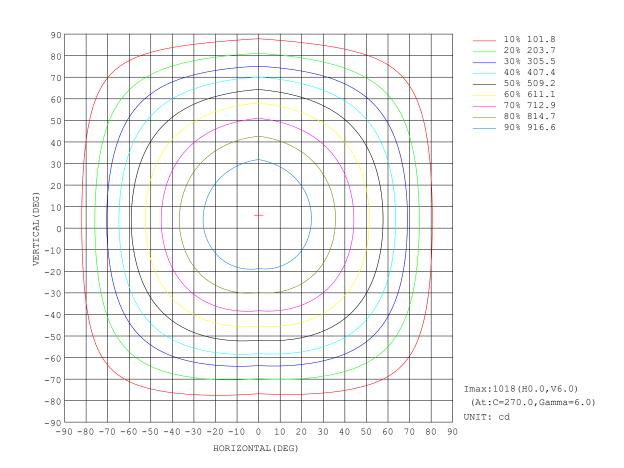
Humidity:65.0%

Test Distance:8.700m [K=1.0000]



ISOCANDELA DIAGRAM

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Freq:0Hz Lamp Flux:3069.51x1 lm									
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:							
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001							
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120							



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22 γ Range: 0 - 180DEG γ Interval: 1.0DEG

y Interval: 1.00EG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444

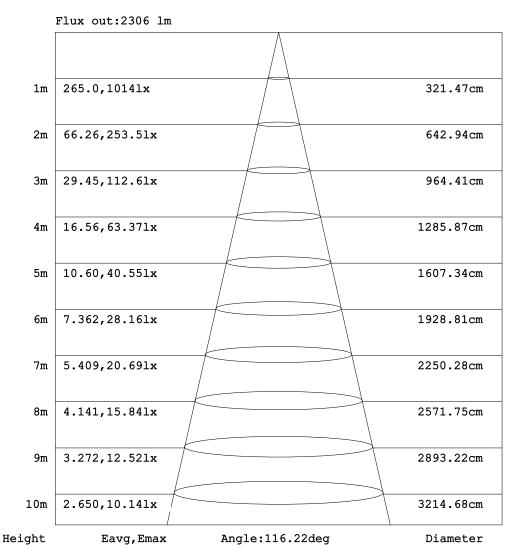
Humidity:65.0%

Test Distance:8.700m [K=1.0000]



AAI Figure

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Freq:0Hz Lamp Flux:3069.51x1 lm									
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:							
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001							
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	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: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

γ Range: 0 - 180DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444

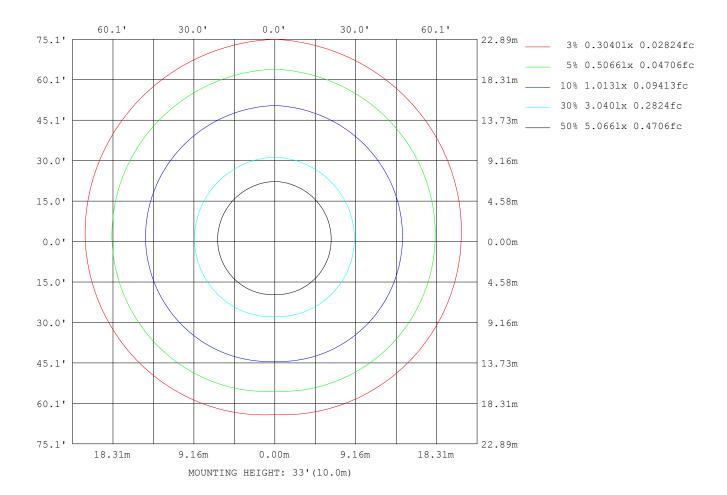
Humidity:65.0%

Test Distance:8.700m [K=1.0000]



ISOLUX DIAGRAM

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Freq:0Hz Lamp Flux:3069.51x1 lm									
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:							
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001							
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120							



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

Humidity:65.0%

Test Distance:8.700m [K=1.0000]



LED Avg.L Report

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Freq:0Hz Lamp Flux:3069.51x1 lm									
NAME: UB-IS-62K90C	TYPE: LED Strip	WEIGHT:							
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001							
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120							

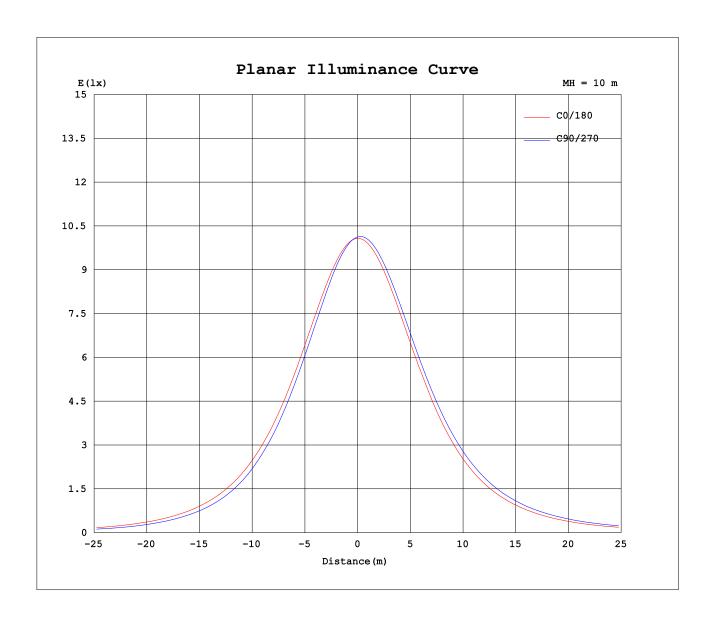
AvgL	cd/m2
L_0~180 (65) av	92435
L_0~180(75)av	79937
L_0~180 (85) av	57376
L_90~270(65)av	91958
L_90~270 (75) av	83711
L_90~270 (85) av	97925
L_45 (65) av	92312
L_45 (75) av	82613
L_45 (85) av	83360

Standard: GB/T 29293-2012

Humidity:65.0%



Planar Illuminance Curve



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

 γ Range: 0 - 180DEG γ Interval: 1.0DEG

Y Interval: 1.00EG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444

Humidity:65.0%

Test Distance:8.700m [K=1.0000]



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.001V I:1.7458A P:20.951W PF:1.0000 Freq:0Hz Lamp Flux:3069.51x1 lm NAME: UB-IS-62K90C WEIGHT: TYPE: LED Strip SPEC.: 21.7W DIM.: 1000*10*2 (MM) SERIAL No.: 001 MFR.: Flexfire LEDs, Inc. SUR.: 0.01*1 Shielding Angle: 120

Table1										UNI	T: cd	
C (DEG)												
γ (DEG)	0	90	180	270								
0	1008	1012	1008	1012								
5	1003	999	1005	1018								
10	991	977	995	1016								
15	971	945	977	1006								
20	944	906	953	988								
25	910	863	920	963								
30	868	813	881	930								
35	819	756	833	890								
40	763	691	776	842								
45	699	619	714	787								
50	629	541	647	725								
55	552	461	573	656								
60	469	375	493	579								
65	379	281	402	497								
70	286	200	313	409								
75	194	126	220	307								
80	110	65.9	133	222								
85	41.1	28.9	59.0	142								
90	1.11	11.9	5.51	75.6								
95	0.92	4.27	1.18	31.1								
100	1.18	1.71	1.31	9.47								
105	1.46	1.85	1.58	3.03								
110	1.74	2.21	1.86	2.07								
115	2.09	2.45	2.21	2.03								
120	2.39	2.70	2.50	2.05								
125	2.71	2.98	2.83	2.29								
130		3.28										
135		3.54										
140	3.51	3.79	3.65	3.13								
145		4.00										
150	3.95	4.16		3.66								
155	4.08	4.30	4.21	3.90								
160		4.51		4.09								
165	4.37	4.68	4.50									
170	4.50	4.79	4.61	4.51								
175	4.57	4.82		4.66								
180	4.68	4.83	4.68	4.78								<u> </u>

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Test Date:2023-07-22

 γ Range: 0 - 180DEG γ Interval: 1.0DEG

y Interval: 1.0066 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444

Humidity:65.0%

Test Distance:8.700m [K=1.0000]