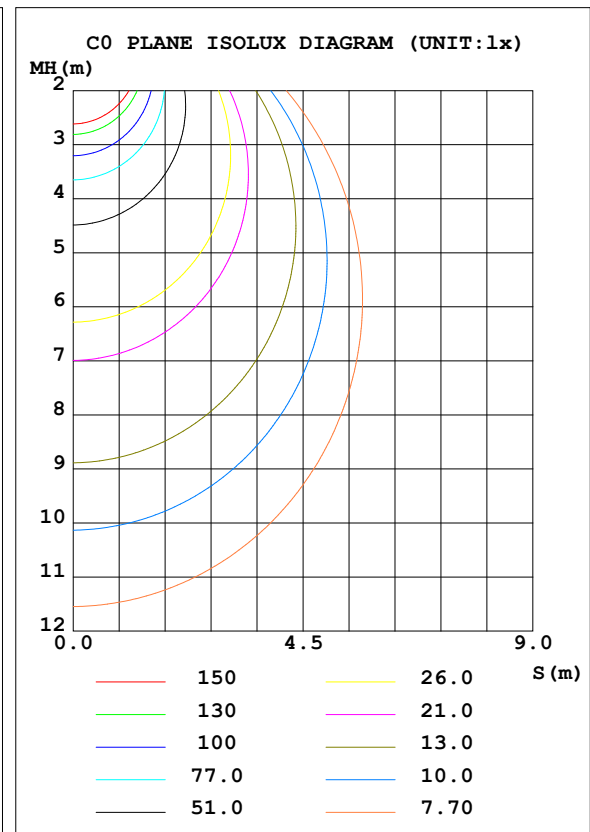
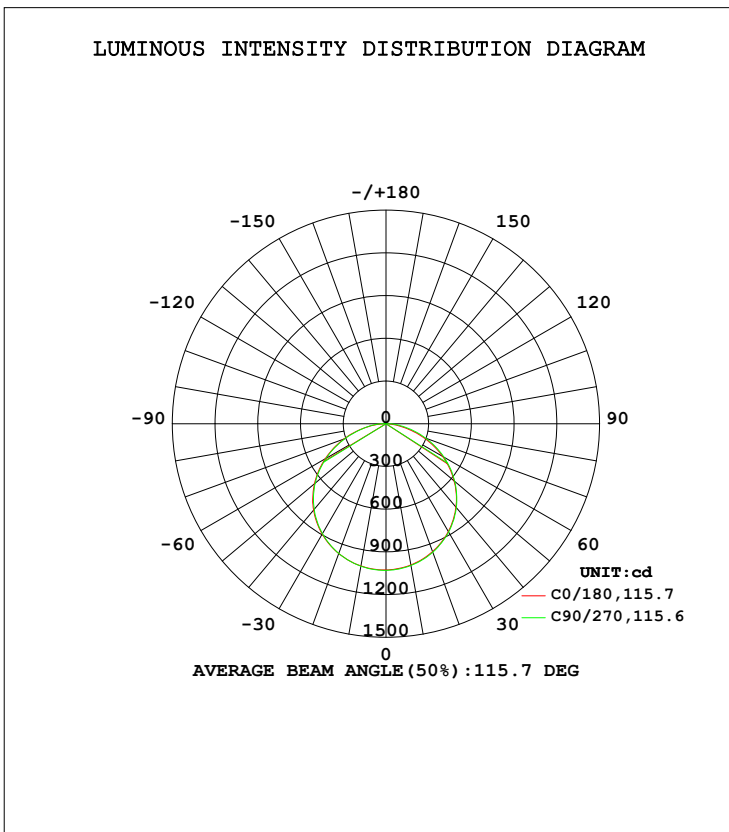


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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 LAMP		PHOTOMETRIC DATA Eff: 134.09 lm/W			
MODEL		I _{max} (cd)	1030	S/MH (C0/180)	1.30
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3081.2	η UP, DN (C0-180)	0.4, 48.6
NOMINAL FLUX (lm)	3081.22	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 50.6
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.2	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2023-07-26

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:

ZONAL FLUX DIAGRAM
ZONAL FLUX DIAGRAM:

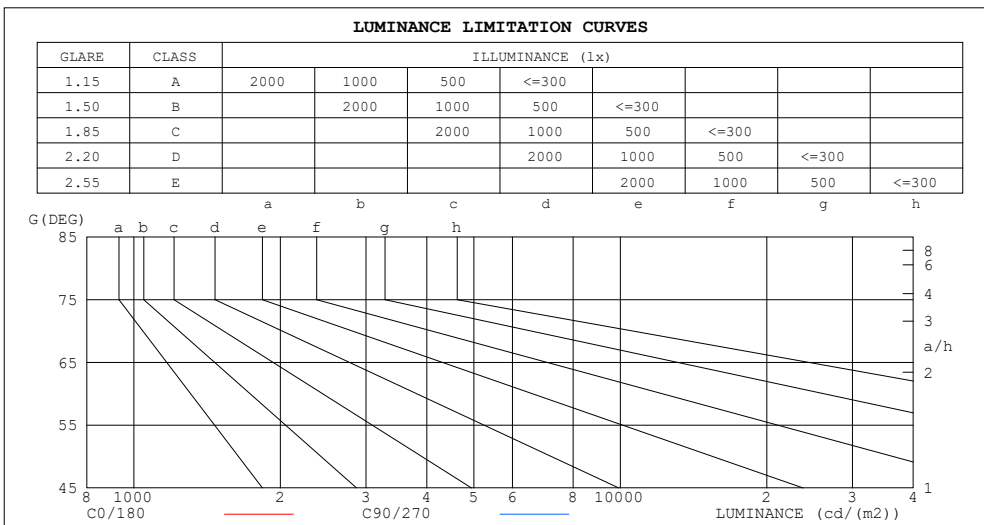
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum,lamp
10	1007	1011	1014	1016				0- 10	97.36	97.36	3.16,3.16
20	956.0	959.8	970.3	969.6				10- 20	280.1	377.4	12.2,12.2
30	874.8	878.9	895.7	892.2				20- 30	428.0	805.4	26.1,26.1
40	764.1	768.8	791.4	784.5				30- 40	522.3	1328	43.1,43.1
50	624.5	630.4	656.1	649.1				40- 50	549.1	1877	60.9,60.9
60	460.3	470.8	493.5	485.0				50- 60	501.6	2378	77.2,77.2
70	278.1	297.7	315.1	307.6				60- 70	385.0	2763	89.7,89.7
80	99.66	133.2	136.1	139.3				70- 80	222.4	2986	96.9,96.9
90	1.039	29.54	8.711	34.21				80- 90	70.73	3057	99.2,99.2
100	1.268	3.086	1.282	7.916				90-100	8.975	3066	99.5,99.5
110	1.859	1.873	1.922	1.824				100-110	2.389	3068	99.6,99.6
120	2.499	2.427	2.599	2.315				110-120	2.124	3070	99.6,99.6
130	3.116	3.019	3.203	2.906				120-130	2.476	3073	99.7,99.7
140	3.657	3.622	3.757	3.448				130-140	2.593	3075	99.8,99.8
150	4.089	4.126	4.151	3.929				140-150	2.418	3078	99.9,99.9
160	4.396	4.508	4.496	4.323				150-160	1.962	3079	99.9,99.9
170	4.687	4.828	4.767	4.717				160-170	1.299	3081	100,100
180	4.840	4.902	4.853	4.890				170-180	0.4581	3081	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

LUMINANCE LIMITATION CURVES

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	41121	79402
80	57392	76735
75	71527	82400
70	81305	87028
65	87638	91013
60	92053	94169
55	95083	96522
50	97159	98069
45	98685	99293

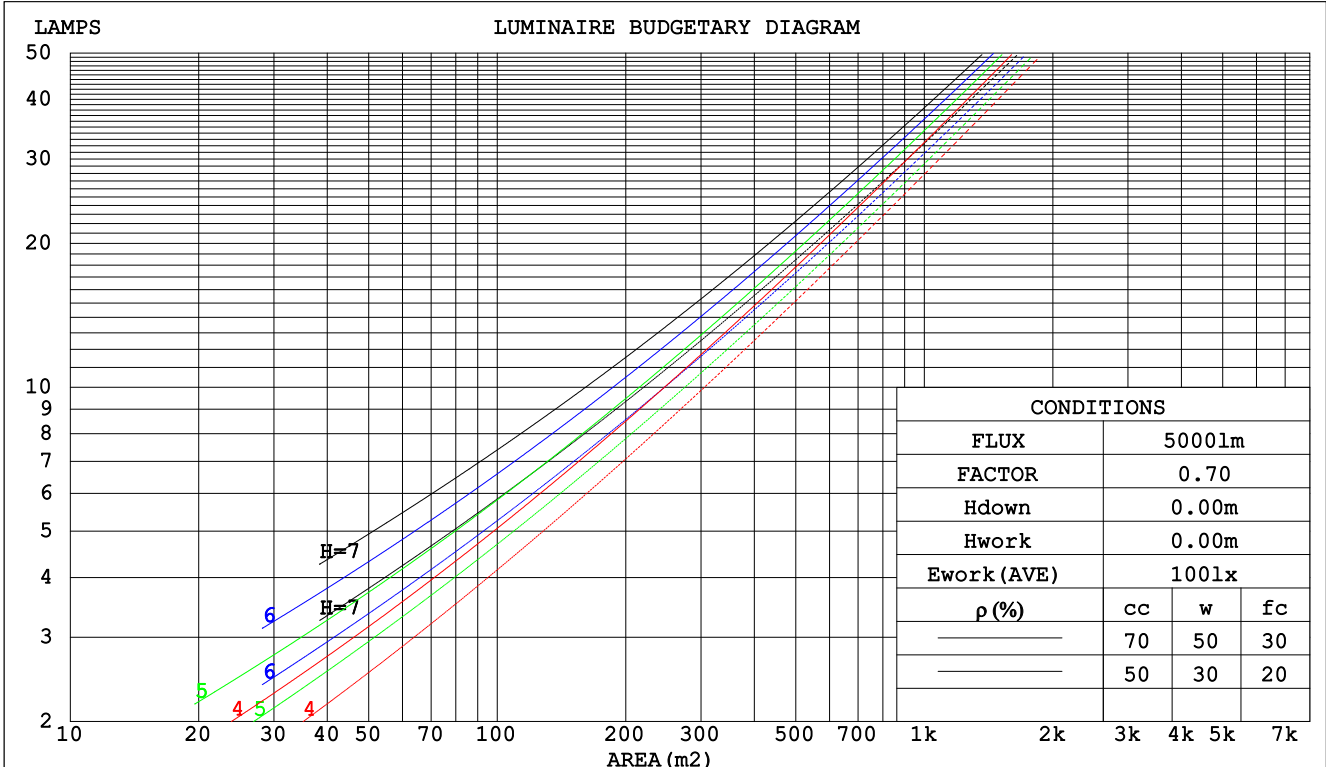
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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

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															
	Coefficients of Utilization(CU)															
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	.97	.93	.90	.92	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.59	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.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:2023-07-26

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:

WEC AND CCEC

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm								
NAME: UB-RS-35K97C			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:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.317	.180	.057	.309	.176	.056	.295	.170	.054	.283	.163	.052	.271	.157	.051	
2.0	.296	.162	.050	.290	.160	.049	.278	.154	.048	.266	.149	.047	.256	.145	.046	
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.247	.135	.041	.238	.132	.041	
4.0	.252	.131	.038	.247	.129	.038	.237	.126	.038	.228	.123	.037	.220	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.162	.140	.160	.139	.120	.109	.096	.083	.063	.055	.048	.020	.018	.016	
2.0	.179	.138	.104	.153	.119	.090	.105	.082	.063	.061	.048	.037	.019	.015	.012	
3.0	.171	.121	.080	.147	.104	.069	.101	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.164	.107	.064	.141	.093	.056	.097	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.097	.053	.134	.084	.046	.092	.059	.033	.054	.034	.019	.017	.011	.006	
6.0	.149	.089	.045	.128	.077	.039	.088	.054	.028	.051	.032	.017	.017	.010	.005	
7.0	.142	.082	.039	.122	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
8.0	.136	.076	.035	.117	.066	.030	.081	.046	.022	.047	.027	.013	.015	.009	.004	
9.0	.130	.071	.031	.112	.062	.027	.077	.043	.019	.045	.026	.012	.015	.008	.004	
10.0	.124	.067	.029	.107	.058	.025	.074	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm										
NAME: UB-RS-35K97C			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				
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	24.7	26.2	25.0	26.4	26.7	24.8	26.3	25.0	26.5	26.7
3H	26.2	27.6	26.5	27.8	28.1	26.3	27.7	26.6	28.0	28.2
4H	26.7	28.0	27.0	28.3	28.6	26.9	28.3	27.3	28.6	28.8
6H	27.0	28.3	27.4	28.6	28.9	27.4	28.7	27.8	29.0	29.3
8H	27.1	28.3	27.4	28.6	28.9	27.6	28.8	27.9	29.1	29.4
12H	27.1	28.3	27.5	28.6	28.9	27.7	28.9	28.1	29.2	29.5
4H 2H	25.3	26.6	25.6	26.9	27.2	25.4	26.7	25.7	27.0	27.2
3H	26.9	28.1	27.3	28.4	28.8	27.1	28.3	27.5	28.6	28.9
4H	27.6	28.7	28.0	29.0	29.4	27.8	28.9	28.2	29.3	29.6
6H	28.0	29.0	28.4	29.4	29.7	28.4	29.4	28.8	29.8	30.1
8H	28.2	29.0	28.6	29.4	29.8	28.7	29.5	29.1	29.9	30.3
12H	28.2	29.0	28.7	29.4	29.9	28.8	29.7	29.3	30.1	30.5
8H 4H	27.9	28.8	28.3	29.1	29.5	28.1	29.0	28.5	29.4	29.8
6H	28.4	29.2	28.9	29.6	30.0	28.8	29.6	29.3	30.0	30.4
8H	28.6	29.3	29.1	29.7	30.2	29.1	29.8	29.6	30.2	30.7
12H	28.8	29.3	29.2	29.8	30.3	29.4	30.0	29.9	30.4	30.9
12H 4H	27.9	28.7	28.3	29.1	29.5	28.1	28.9	28.5	29.3	29.7
6H	28.5	29.2	29.0	29.6	30.1	28.9	29.5	29.3	30.0	30.4
8H	28.7	29.3	29.2	29.8	30.3	29.2	29.8	29.7	30.2	30.7
Variations with the observer position at spacings(CIE Pub.117):										
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, 3081 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)
 Area: 0.01 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

UTILIZATION FACTORS TABLE

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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

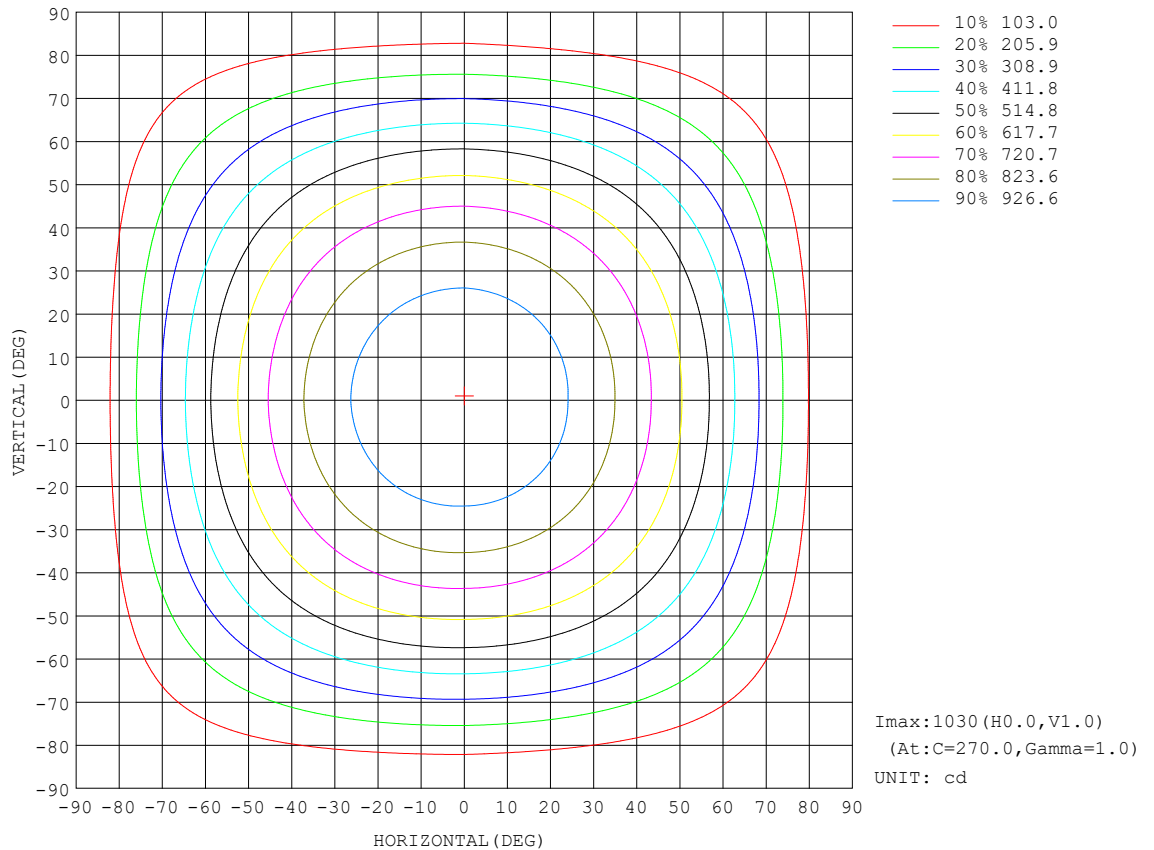
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	65	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	69	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	85	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: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

ISOCANDELA DIAGRAM

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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

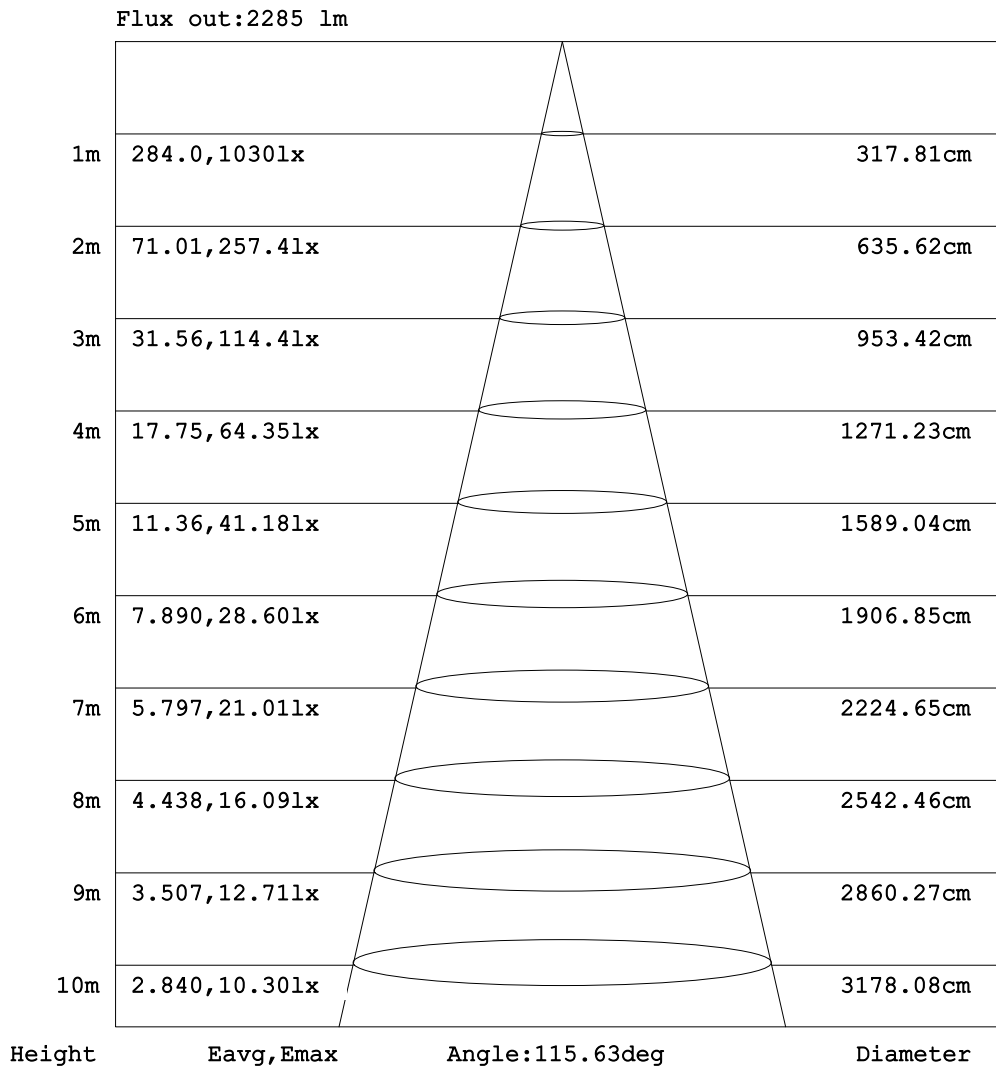


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

AAI Figure

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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



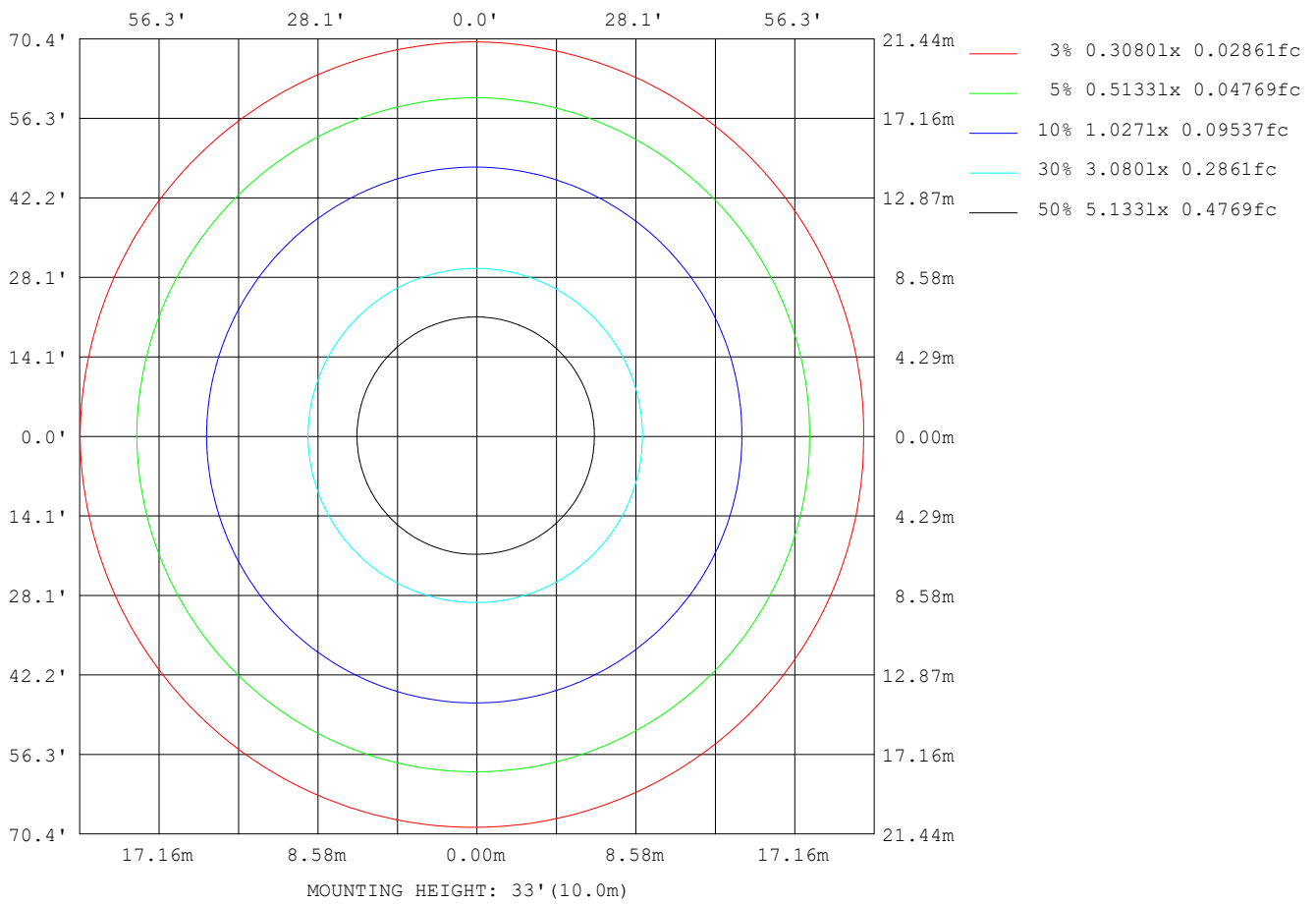
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

ISOLUX DIAGRAM

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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:2023-07-26

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:

LED Avg.L Report

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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

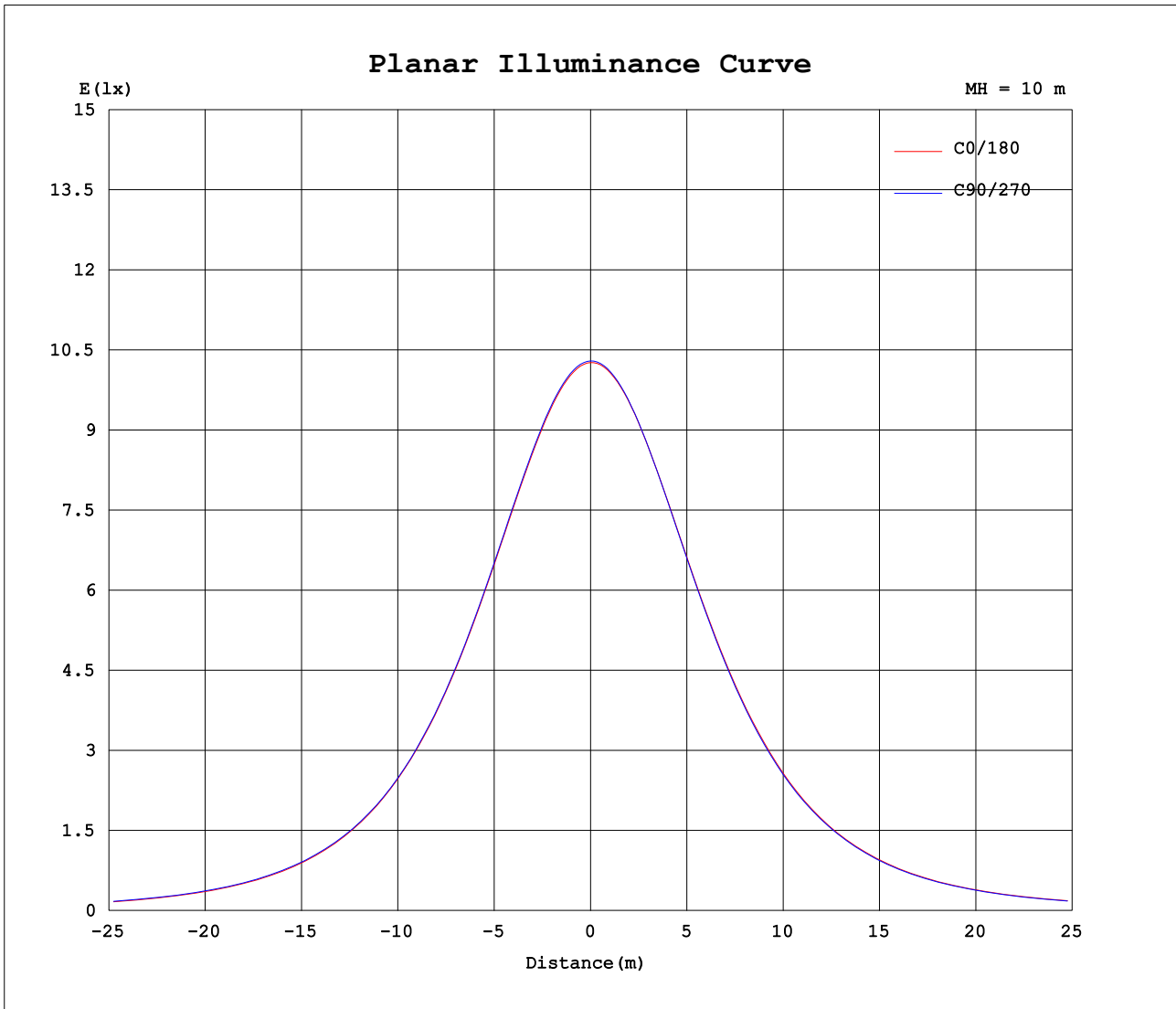
AvgL	cd/m2
L_0~180 (65) av	91814
L_0~180 (75) av	79045
L_0~180 (85) av	56200
L_90~270 (65) av	92446
L_90~270 (75) av	82901
L_90~270 (85) av	83900
L_45 (65) av	92470
L_45 (75) av	81925
L_45 (85) av	74455

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2023-07-26

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.001V I:0.9574A P:22.979W PF:1.0000 Freq:0Hz Lamp Flux:3081.22x1 lm		
NAME: UB-RS-35K97C	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

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1027	1030	1027	1030															
5	1021	1024	1024	1027															
10	1007	1011	1014	1016															
15	985	989	996	997															
20	956	960	970	970															
25	919	923	937	935															
30	875	879	896	892															
35	823	827	847	842															
40	764	769	791	784															
45	698	702	727	721															
50	625	630	656	649															
55	545	554	578	571															
60	460	471	493	485															
65	370	385	406	397															
70	278	298	315	308															
75	185	213	224	216															
80	99.7	133	136	139															
85	35.8	69.2	62.1	77.0															
90	1.04	29.5	8.71	34.2															
95	1.07	10.8	1.22	15.5															
100	1.27	3.09	1.28	7.92															
105	1.55	1.68	1.63	3.19															
110	1.86	1.87	1.92	1.82															
115	2.15	2.14	2.27	1.97															
120	2.50	2.43	2.60	2.31															
125	2.80	2.75	2.92	2.59															
130	3.12	3.02	3.20	2.91															
135	3.36	3.36	3.49	3.18															
140	3.66	3.62	3.76	3.45															
145	3.90	3.88	3.97	3.71															
150	4.09	4.13	4.15	3.93															
155	4.24	4.31	4.32	4.11															
160	4.40	4.51	4.50	4.32															
165	4.52	4.68	4.61	4.53															
170	4.69	4.83	4.77	4.72															
175	4.74	4.88	4.83	4.86															
180	4.84	4.90	4.85	4.89															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-26

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: