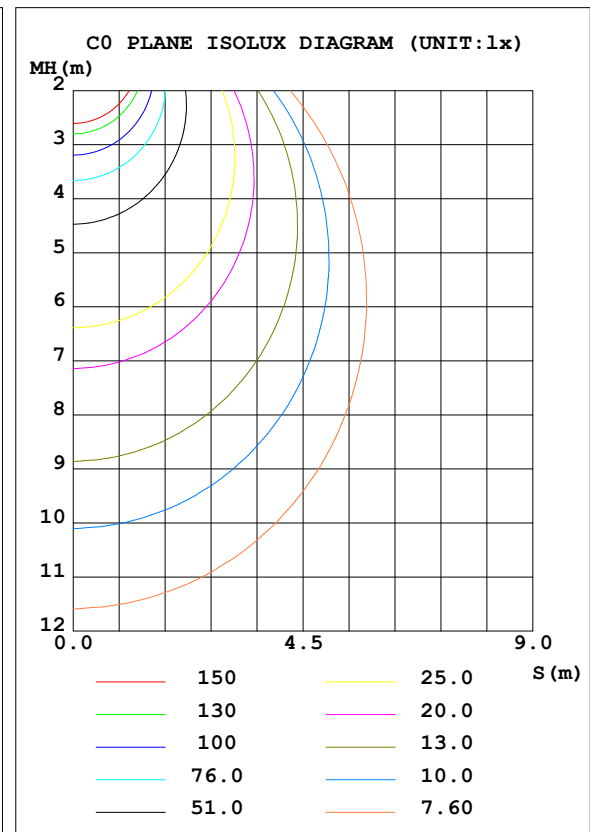
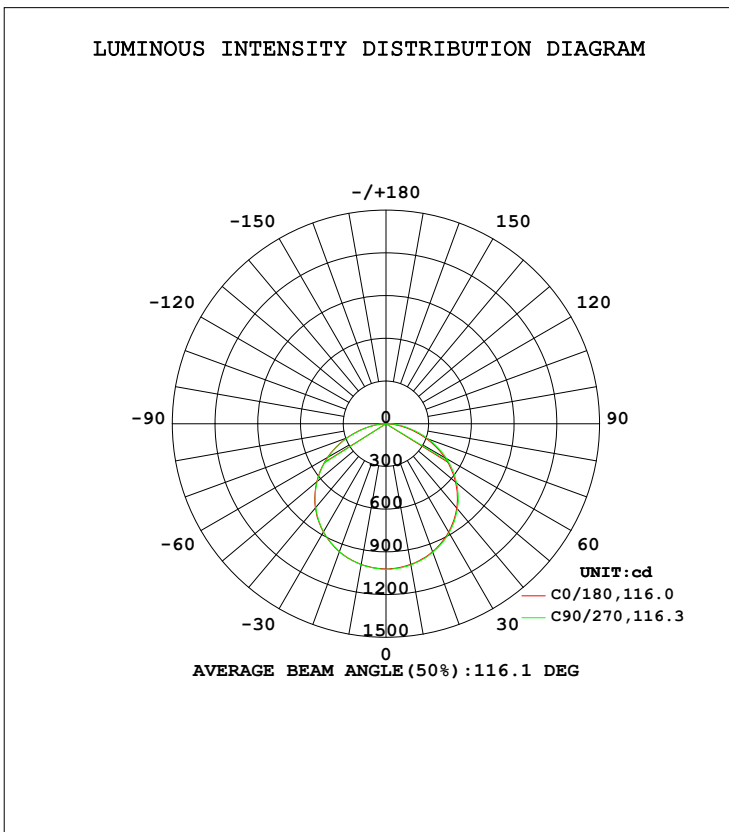


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.001V I:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 135.92 lm/W			
MODEL		I _{max} (cd)	1023	S/MH (C0/180)	1.28
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3060.6	η UP, DN (C0-180)	0.3, 50.3
NOMINAL FLUX (lm)	3060.58	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 49.1
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2023-07-28

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:

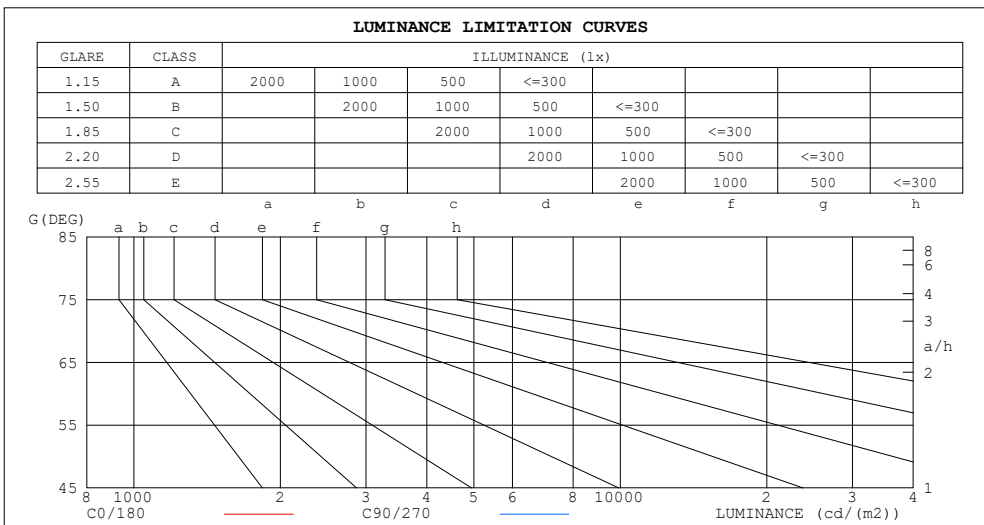
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1003	1007	1004	1006				0- 10	96.64	96.64	3.16,3.16
20	955.5	960.9	957.0	957.2				10- 20	278.1	374.8	12.2,12.2
30	879.2	885.4	880.4	876.9				20- 30	425.3	800.1	26.1,26.1
40	773.5	779.8	771.5	766.8				30- 40	519.3	1319	43.1,43.1
50	637.5	647.6	635.5	631.4				40- 50	546.6	1866	61,61
60	478.4	491.8	473.9	468.3				50- 60	500.9	2367	77.3,77.3
70	298.6	319.1	294.4	287.5				60- 70	385.6	2752	89.9,89.9
80	120.5	146.9	116.2	114.3				70- 80	221.4	2974	97.2,97.2
90	5.976	26.34	0.9982	21.82				80- 90	66.16	3040	99.3,99.3
100	1.243	1.318	1.392	2.407				90-100	5.603	3046	99.5,99.5
110	1.835	1.725	1.910	1.748				100-110	1.685	3047	99.6,99.6
120	2.499	2.328	2.611	2.376				110-120	2.105	3049	99.6,99.6
130	3.116	2.932	3.191	2.980				120-130	2.473	3052	99.7,99.7
140	3.657	3.535	3.757	3.510				130-140	2.587	3055	99.8,99.8
150	4.051	4.003	4.139	3.966				140-150	2.406	3057	99.9,99.9
160	4.372	4.410	4.471	4.310				150-160	1.947	3059	99.9,99.9
170	4.655	4.754	4.742	4.705				160-170	1.287	3060	100,100
180	4.766	4.865	4.779	4.877				170-180	0.4540	3061	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	52809	83223
80	64831	79058
75	74704	83017
70	81605	87185
65	86139	89692
60	89422	91925
55	91619	93400
50	92695	94154
45	93538	94745

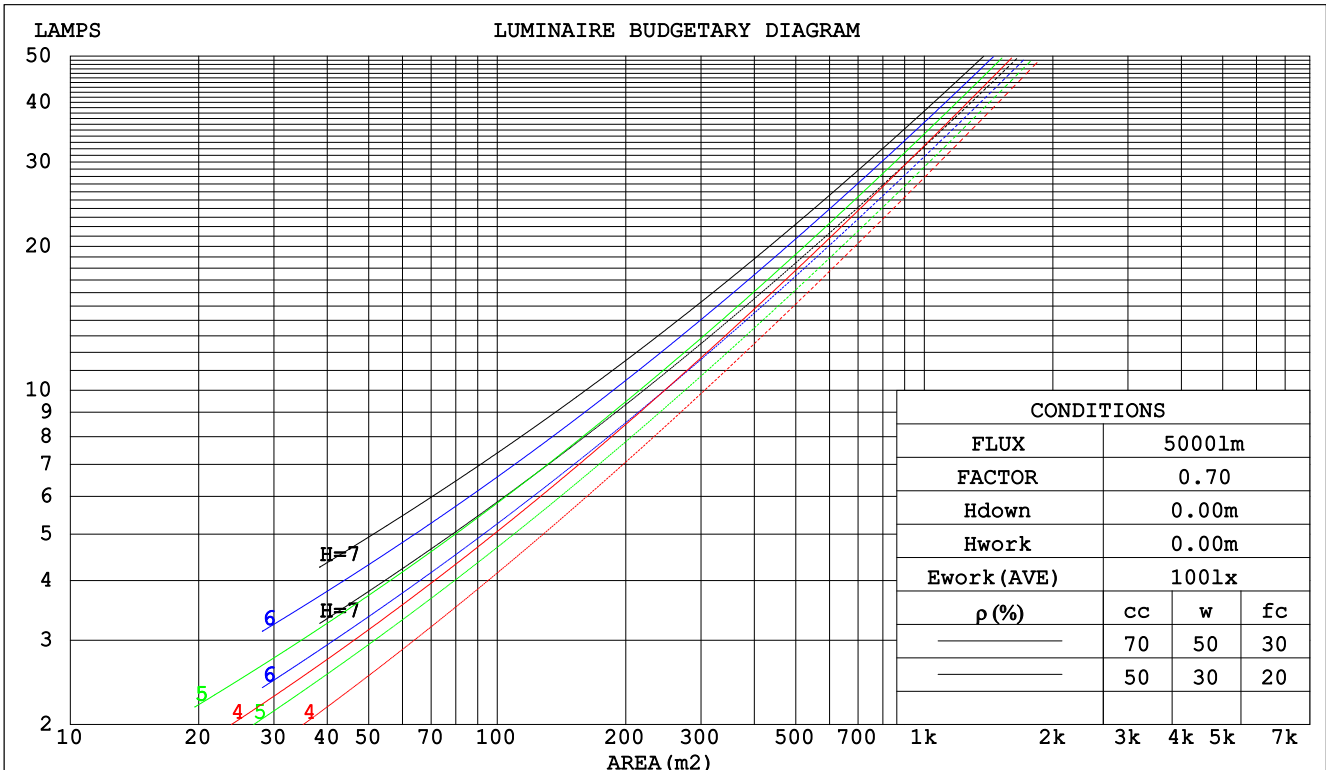
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	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	.93	.90	.87	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.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:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm								
NAME: UB-RS-40K95C			TYPE: LED Strip			WEIGHT:		
SPEC.: 21.7W			DIM.: 1000*10*2 (MM)			SERIAL No.: 001		
MFR.: Flexfire LEDs, Inc.			SUR.: 0.01*1.07			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	.316	.179	.057	.308	.176	.056	.295	.169	.054	.282	.163	.052	.270	.157	.051	
2.0	.296	.162	.050	.289	.159	.049	.277	.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	.120	.036	
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.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	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.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	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.152	.118	.089	.104	.082	.062	.060	.047	.036	.019	.015	.012	
3.0	.170	.120	.079	.146	.103	.069	.100	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.063	.140	.092	.055	.096	.064	.039	.056	.037	.023	.018	.012	.008	
5.0	.155	.096	.052	.133	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.044	.127	.076	.038	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.081	.038	.122	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.116	.065	.030	.080	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.027	.077	.043	.019	.045	.025	.011	.014	.008	.004	
10.0	.123	.066	.028	.106	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm										
NAME: UB-RS-40K95C				TYPE: LED Strip			WEIGHT:			
SPEC.: 21.7W				DIM.: 1000*10*2 (MM)			SERIAL No.: 001			
MFR.: Flexfire LEDs, Inc.				SUR.: 0.01*1.07			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	26.3	25.0	26.5	26.7	24.8	26.4	25.1	26.6	26.8
3H	26.3	27.7	26.6	27.9	28.2	26.5	27.9	26.8	28.1	28.4
4H	26.9	28.2	27.2	28.5	28.8	27.1	28.5	27.4	28.7	29.0
6H	27.3	28.6	27.6	28.8	29.1	27.6	28.9	28.0	29.2	29.5
8H	27.4	28.6	27.8	28.9	29.2	27.8	29.1	28.2	29.3	29.7
12H	27.5	28.6	27.8	29.0	29.3	28.0	29.2	28.3	29.5	29.8
4H 2H	25.4	26.7	25.7	27.0	27.3	25.4	26.8	25.8	27.1	27.3
3H	27.1	28.3	27.5	28.6	28.9	27.3	28.4	27.6	28.7	29.1
4H	27.8	28.9	28.2	29.2	29.6	28.0	29.1	28.4	29.5	29.8
6H	28.4	29.3	28.8	29.7	30.1	28.7	29.7	29.1	30.0	30.4
8H	28.5	29.4	29.0	29.8	30.2	29.0	29.8	29.4	30.2	30.6
12H	28.6	29.5	29.1	29.9	30.3	29.2	30.0	29.6	30.4	30.8
8H 4H	28.1	29.0	28.5	29.4	29.8	28.3	29.2	28.7	29.6	30.0
6H	28.8	29.6	29.3	30.0	30.4	29.1	29.9	29.6	30.3	30.7
8H	29.1	29.7	29.5	30.2	30.6	29.5	30.1	29.9	30.6	31.0
12H	29.3	29.8	29.7	30.3	30.8	29.8	30.4	30.3	30.8	31.3
12H 4H	28.1	29.0	28.6	29.4	29.8	28.3	29.1	28.8	29.5	30.0
6H	28.9	29.5	29.4	30.0	30.4	29.2	29.8	29.7	30.3	30.7
8H	29.2	29.8	29.7	30.2	30.7	29.6	30.1	30.1	30.6	31.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 3061 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)
 Area: 0.0107 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120

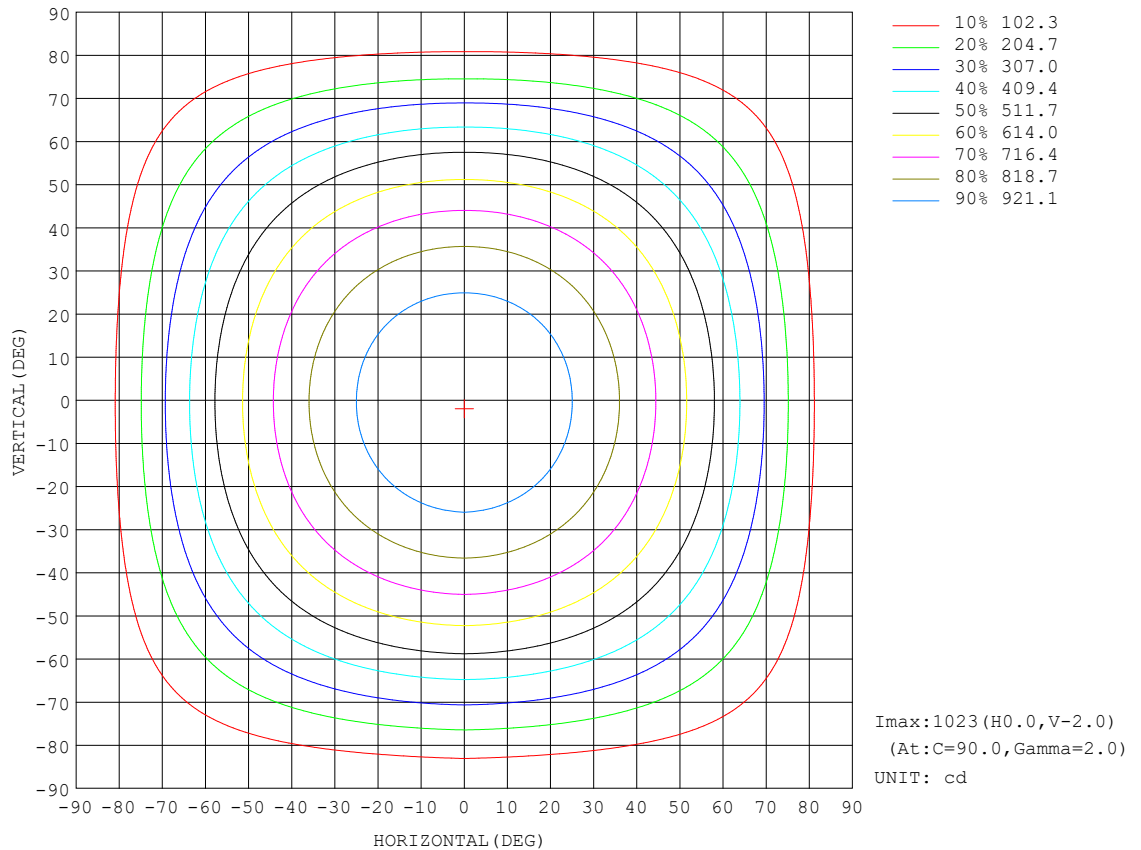
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	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	69
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	95	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:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120

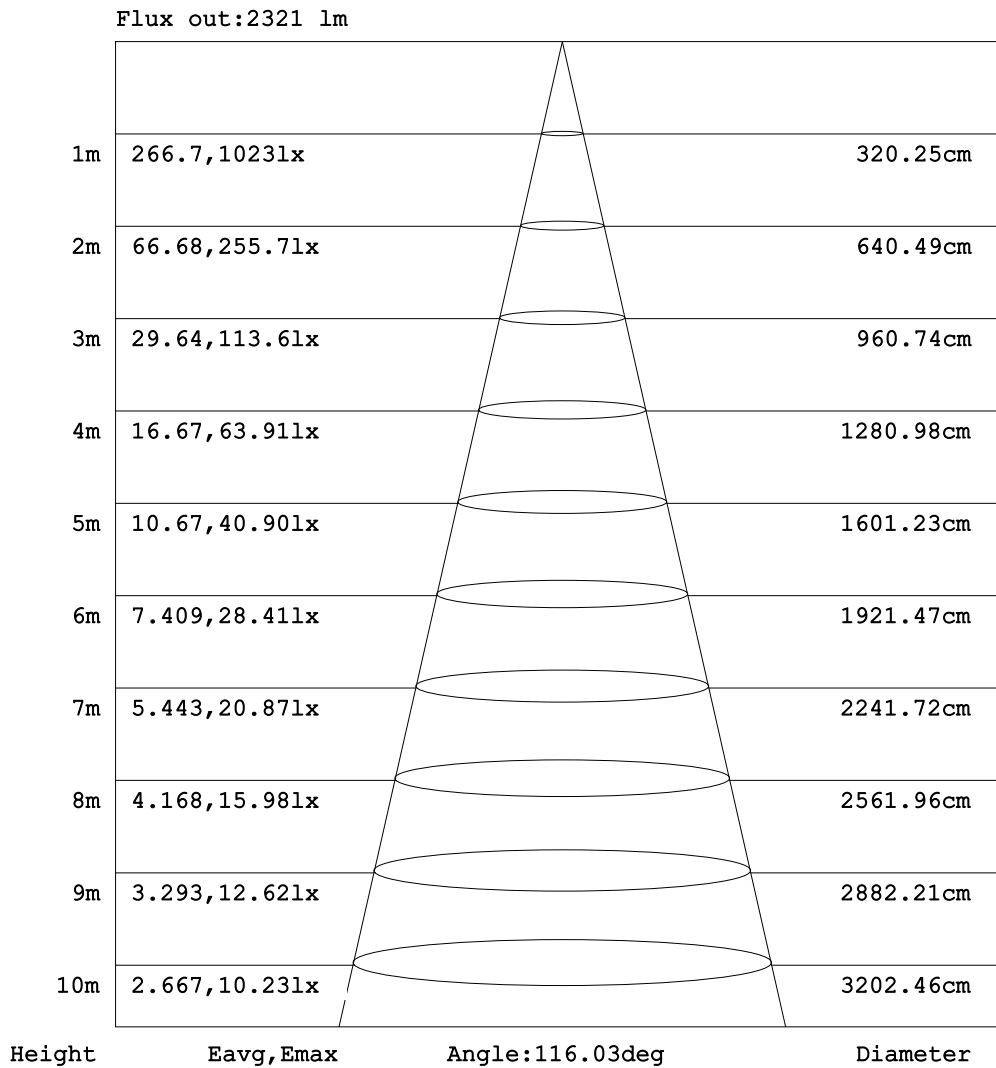


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120



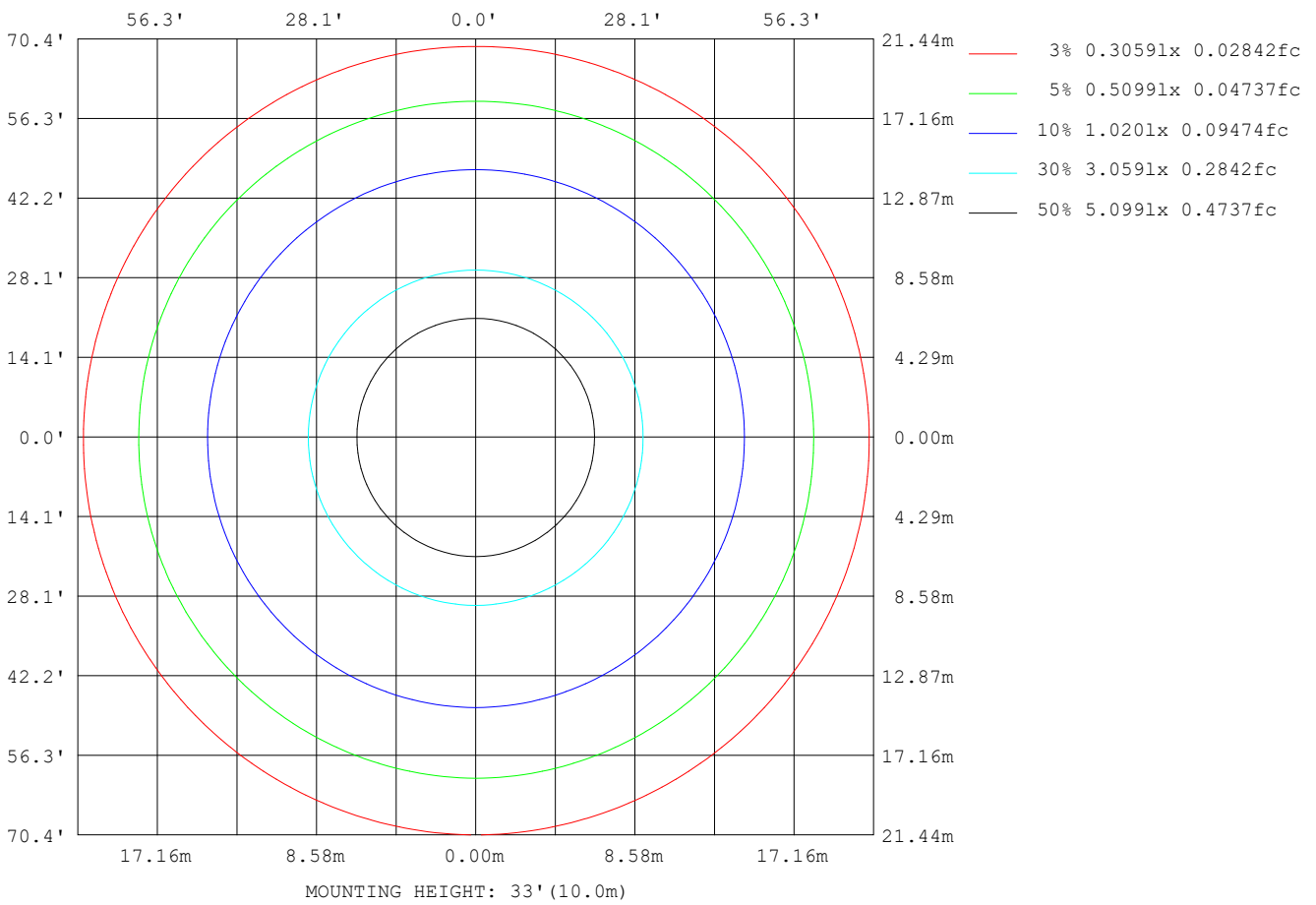
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120

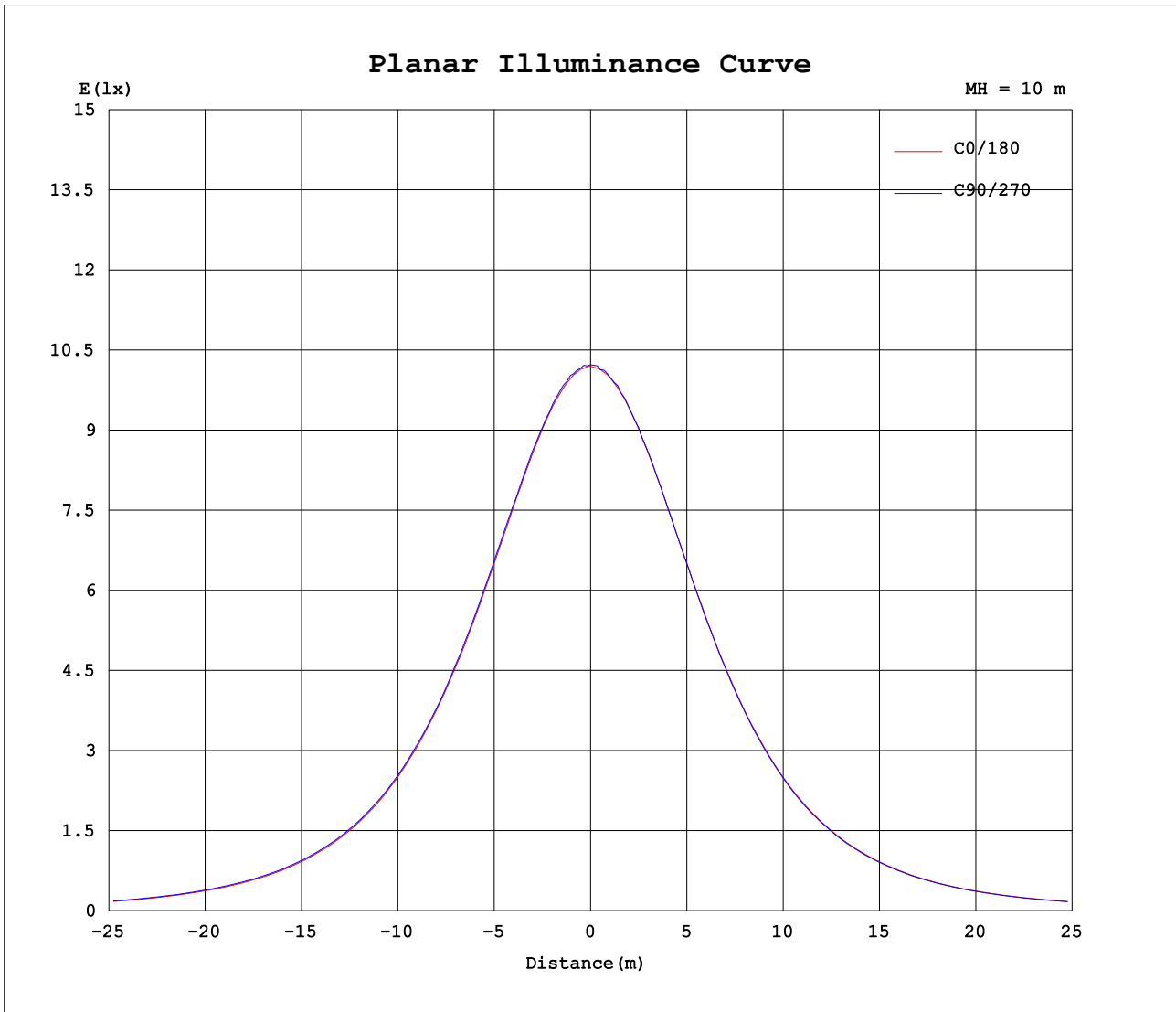
AvgL	cd/m2
L_0~180 (65) av	85659
L_0~180 (75) av	73933
L_0~180 (85) av	50722
L_90~270 (65) av	86711
L_90~270 (75) av	76940
L_90~270 (85) av	70321
L_45 (65) av	86287
L_45 (75) av	75764
L_45 (85) av	62841

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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:2023-07-28

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:0.9382A P:22.518W PF:1.0000 Freq:0Hz Lamp Flux:3060.58x1 lm		
NAME: UB-RS-40K95C	TYPE: LED Strip	WEIGHT:
SPEC.: 21.7W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1.07	Shielding Angle: 120

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1020	1023	1020	1023															
5	1015	1017	1015	1017															
10	1003	1007	1004	1006															
15	983	988	984	982															
20	955	961	957	957															
25	921	927	921	920															
30	879	885	880	877															
35	830	838	829	827															
40	774	780	772	767															
45	708	717	706	703															
50	638	648	635	631															
55	562	573	558	552															
60	478	492	474	468															
65	390	406	385	379															
70	299	319	294	288															
75	207	230	203	196															
80	120	147	116	114															
85	49.2	77.6	45.4	53.5															
90	5.98	26.3	1.00	21.8															
95	1.10	5.59	1.22	8.44															
100	1.24	1.32	1.39	2.41															
105	1.53	1.42	1.69	1.56															
110	1.83	1.72	1.91	1.75															
115	2.17	2.02	2.27	2.06															
120	2.50	2.33	2.61	2.38															
125	2.82	2.65	2.91	2.67															
130	3.12	2.93	3.19	2.98															
135	3.40	3.25	3.46	3.28															
140	3.66	3.54	3.76	3.51															
145	3.88	3.77	3.99	3.76															
150	4.05	4.00	4.14	3.97															
155	4.21	4.20	4.31	4.14															
160	4.37	4.41	4.47	4.31															
165	4.50	4.61	4.63	4.51															
170	4.65	4.75	4.74	4.70															
175	4.71	4.86	4.77	4.77															
180	4.77	4.86	4.78	4.88															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-07-28

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: