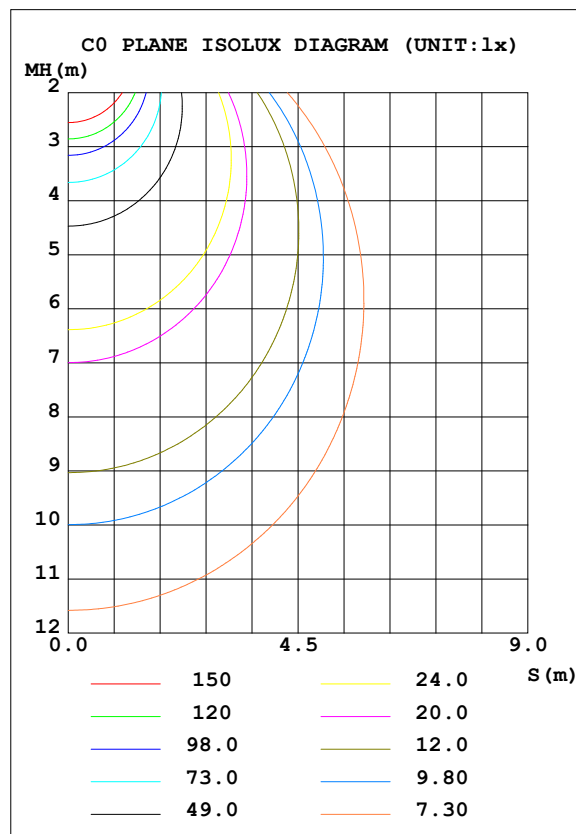
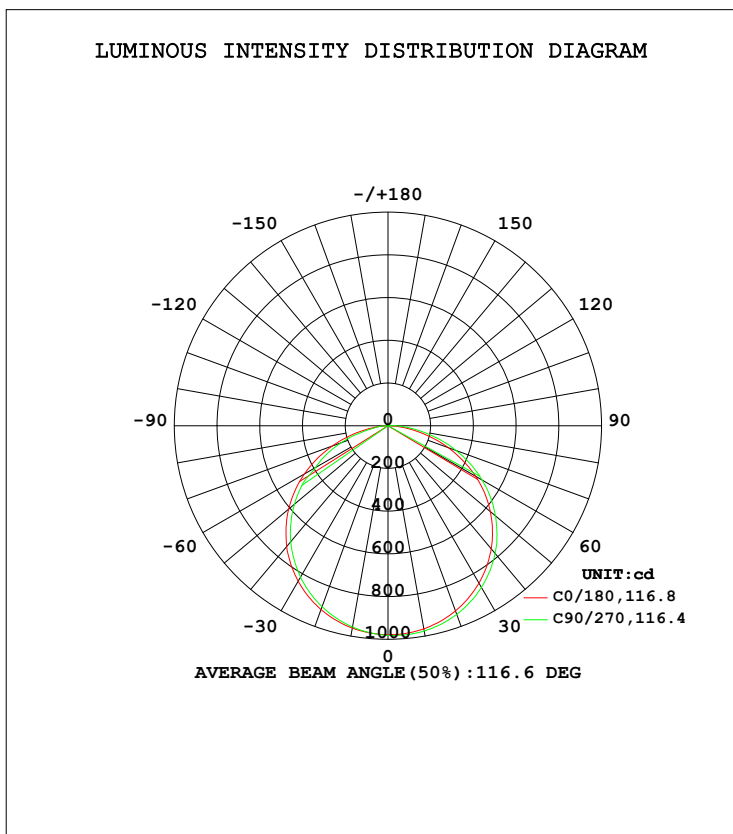


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.001V I:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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: 130.58 lm/W			
MODEL		I _{max} (cd)	982.8	S/MH (C0/180)	1.28
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2943.9	η UP, DN (C0-180)	0.4, 52.2
NOMINAL FLUX (lm)	2943.89	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 47.1
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: 2023-08-08

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:

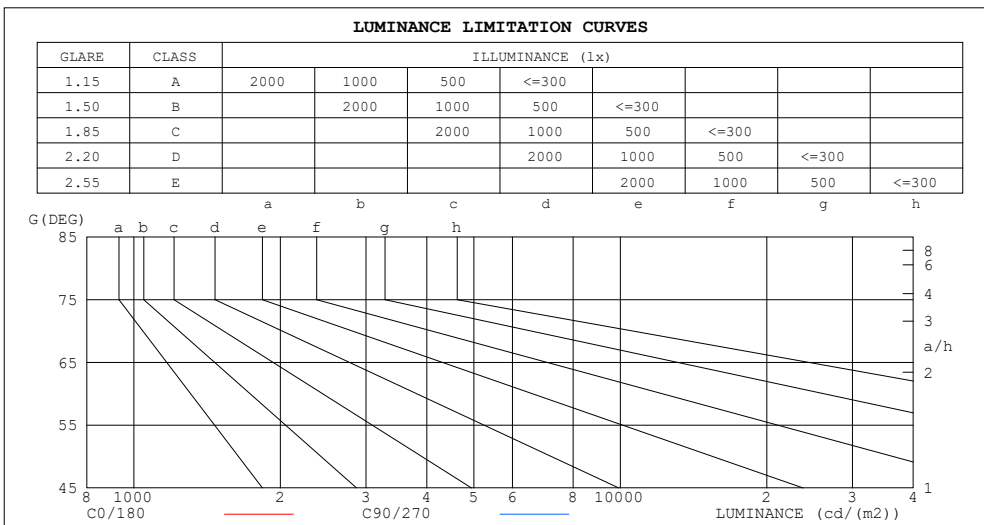
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	965.3	975.9	961.7	956.8				0- 10	92.82	92.82	3.15,3.15
20	922.4	939.9	916.0	901.7				10- 20	267.2	360.0	12.2,12.2
30	851.4	874.7	841.2	818.6				20- 30	408.9	768.9	26.1,26.1
40	752.0	780.1	737.7	708.1				30- 40	499.8	1269	43.1,43.1
50	625.5	656.8	607.1	571.6				40- 50	526.7	1795	61,61
60	474.6	509.1	452.6	393.4				50- 60	482.7	2278	77.4,77.4
70	300.0	340.3	278.1	234.1				60- 70	370.2	2648	90,90
80	123.3	165.3	104.9	71.23				70- 80	211.1	2859	97.1,97.1
90	7.846	39.47	3.601	7.522				80- 90	63.14	2922	99.3,99.3
100	1.170	6.074	1.318	1.589				90-100	6.709	2929	99.5,99.5
110	1.712	1.601	1.910	1.859				100-110	1.911	2931	99.6,99.6
120	2.364	2.094	2.538	2.536				110-120	2.048	2933	99.6,99.6
130	2.943	2.747	3.141	3.054				120-130	2.393	2935	99.7,99.7
140	3.472	3.338	3.646	3.559				130-140	2.507	2938	99.8,99.8
150	3.916	3.843	4.040	3.990				140-150	2.339	2940	99.9,99.9
160	4.224	4.200	4.323	4.347				150-160	1.896	2942	99.9,99.9
170	4.468	4.557	4.557	4.643				160-170	1.250	2943	100,100
180	4.582	4.680	4.680	4.729				170-180	0.4411	2944	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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	56281	97873
80	66360	88962
75	75727	90787
70	81968	92991
65	85708	94423
60	88713	95162
55	90163	95597
50	90938	95500
45	91403	95349

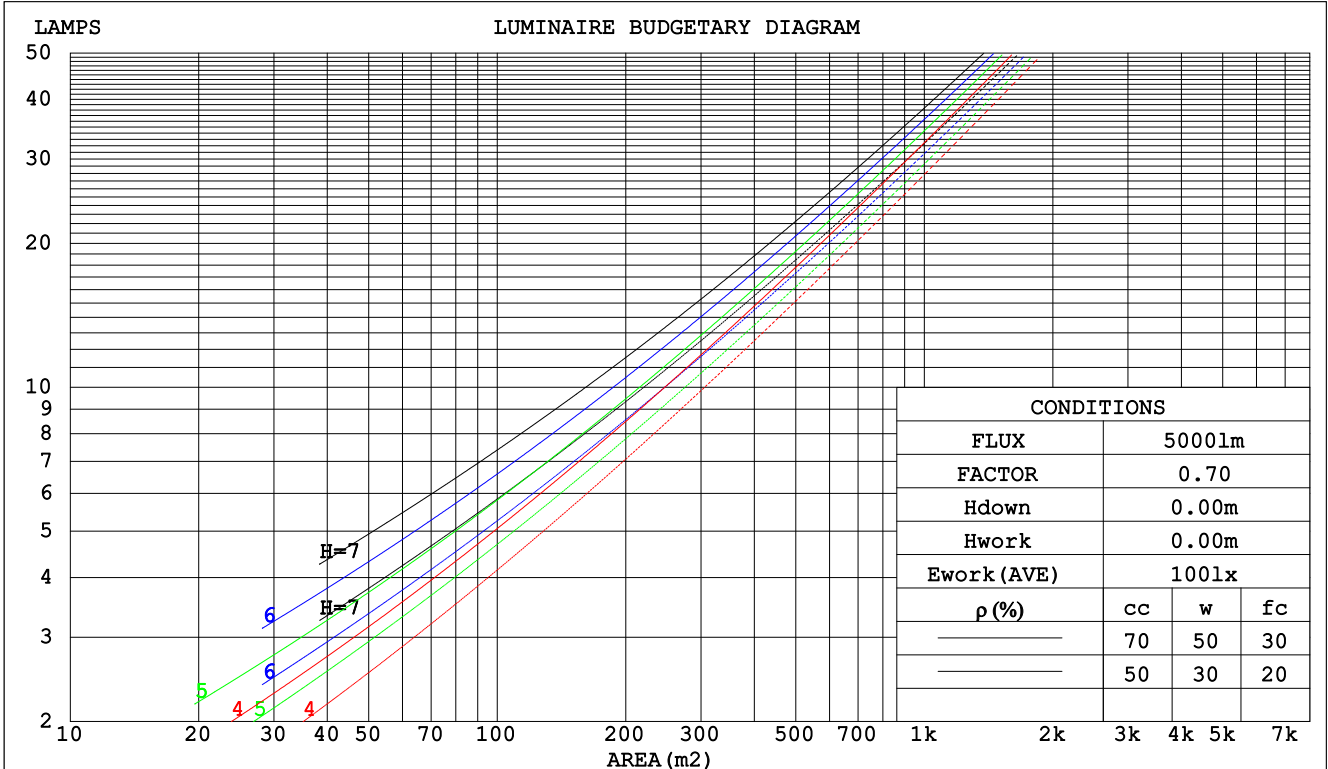
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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	.82	.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:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm									
NAME: UB-RS-50K95C				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	.315	.179	.057	.308	.176	.056	.294	.169	.054	.281	.162	.052	.270	.156	.050	
2.0	.296	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.255	.144	.046	
3.0	.273	.145	.044	.267	.143	.043	.257	.139	.042	.247	.135	.041	.237	.131	.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	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.085	.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	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.162	.140	.159	.139	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.138	.103	.153	.118	.089	.105	.082	.062	.060	.048	.036	.019	.015	.012	
3.0	.171	.120	.080	.146	.104	.069	.100	.072	.048	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.092	.055	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.096	.053	.134	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.045	.128	.076	.039	.088	.053	.028	.051	.031	.016	.016	.010	.005	
7.0	.142	.081	.039	.122	.070	.034	.084	.049	.024	.049	.029	.014	.016	.010	.005	
8.0	.135	.075	.034	.116	.065	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.070	.031	.111	.061	.027	.077	.043	.019	.045	.025	.011	.015	.008	.004	
10.0	.123	.066	.028	.106	.057	.025	.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:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm										
NAME: UB-RS-50K95C				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	25.0	26.5	25.2	26.7	26.9	25.2	26.7	25.5	27.0	27.2
3H	26.5	28.0	26.9	28.2	28.5	26.9	28.4	27.3	28.6	28.9
4H	27.2	28.5	27.5	28.8	29.1	27.7	29.0	28.0	29.3	29.6
6H	27.6	28.9	27.9	29.2	29.5	28.3	29.5	28.6	29.8	30.1
8H	27.7	29.0	28.1	29.3	29.6	28.5	29.7	28.9	30.0	30.3
12H	27.8	29.0	28.2	29.3	29.6	28.7	29.9	29.1	30.2	30.5
4H 2H	25.6	27.0	26.0	27.3	27.5	25.8	27.2	26.2	27.5	27.7
3H	27.4	28.6	27.8	28.9	29.2	27.8	28.9	28.1	29.2	29.6
4H	28.2	29.3	28.6	29.6	29.9	28.6	29.7	29.0	30.0	30.4
6H	28.7	29.7	29.1	30.1	30.4	29.4	30.3	29.8	30.7	31.1
8H	28.9	29.8	29.3	30.2	30.6	29.7	30.5	30.1	30.9	31.3
12H	29.0	29.9	29.5	30.3	30.7	29.9	30.7	30.3	31.1	31.5
8H 4H	28.5	29.4	28.9	29.8	30.2	28.9	29.8	29.3	30.2	30.6
6H	29.2	30.0	29.7	30.4	30.8	29.8	30.5	30.3	31.0	31.4
8H	29.5	30.2	30.0	30.6	31.1	30.2	30.9	30.7	31.3	31.8
12H	29.7	30.3	30.2	30.7	31.2	30.6	31.1	31.1	31.6	32.1
12H 4H	28.5	29.4	29.0	29.8	30.2	28.9	29.7	29.4	30.1	30.6
6H	29.3	30.0	29.8	30.4	30.9	29.9	30.5	30.3	31.0	31.4
8H	29.6	30.2	30.1	30.7	31.2	30.3	30.9	30.8	31.3	31.8
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 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 2944 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.8)
 Area: 0.0107 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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

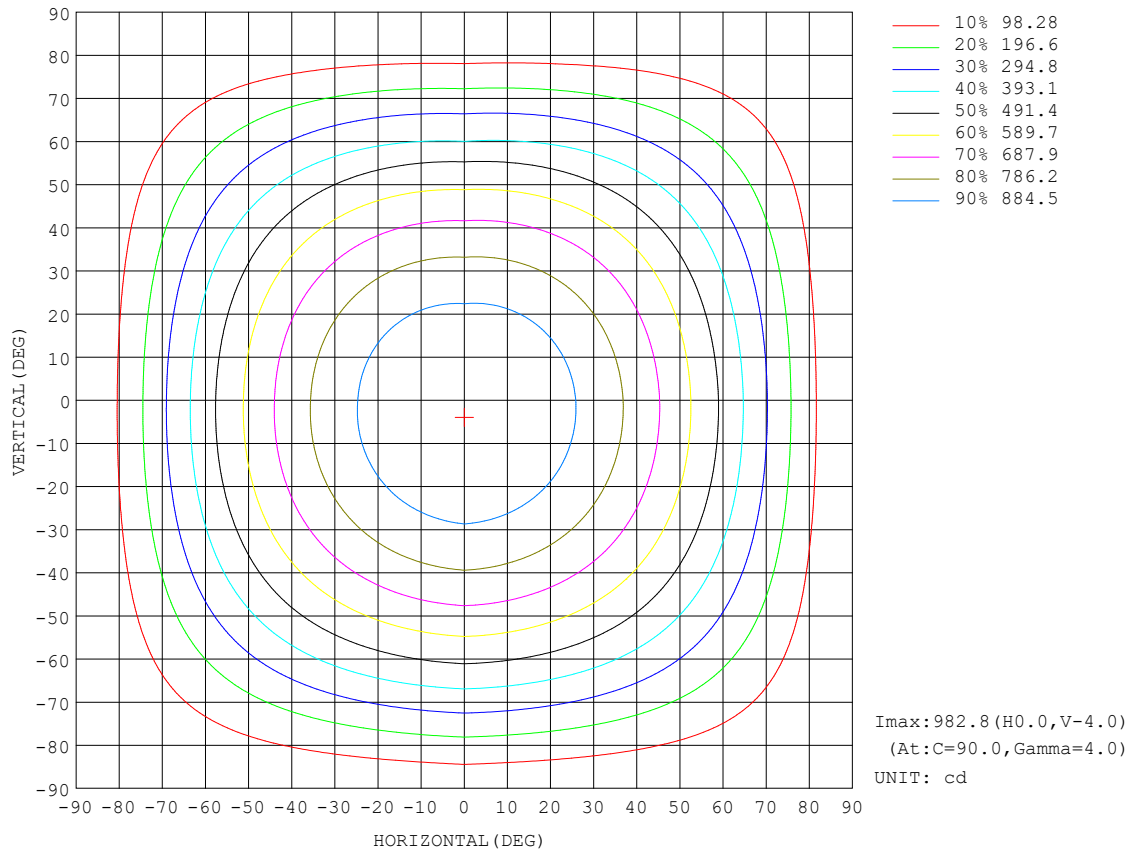
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	37	31
0.80	67	55	47	66	54	47	64	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:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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

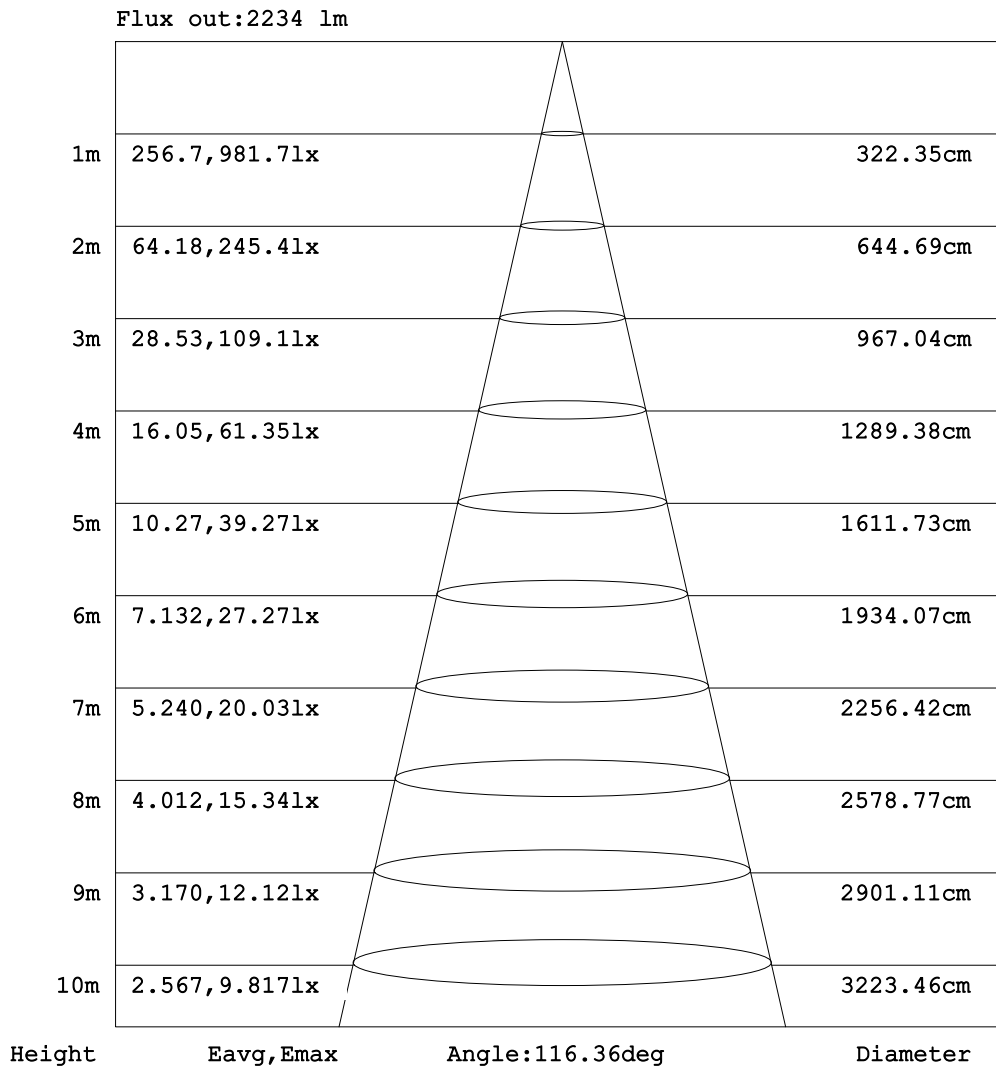


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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



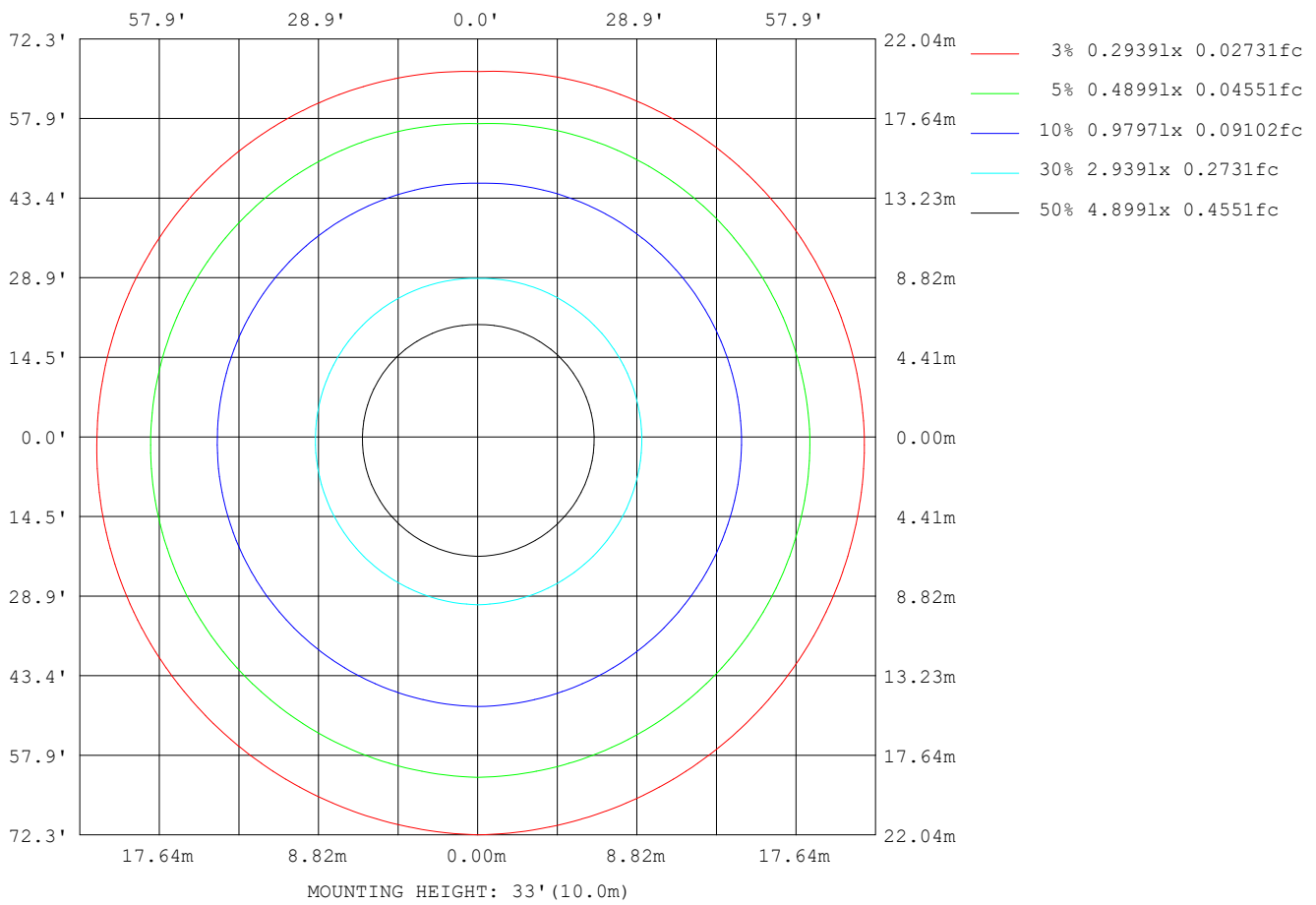
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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

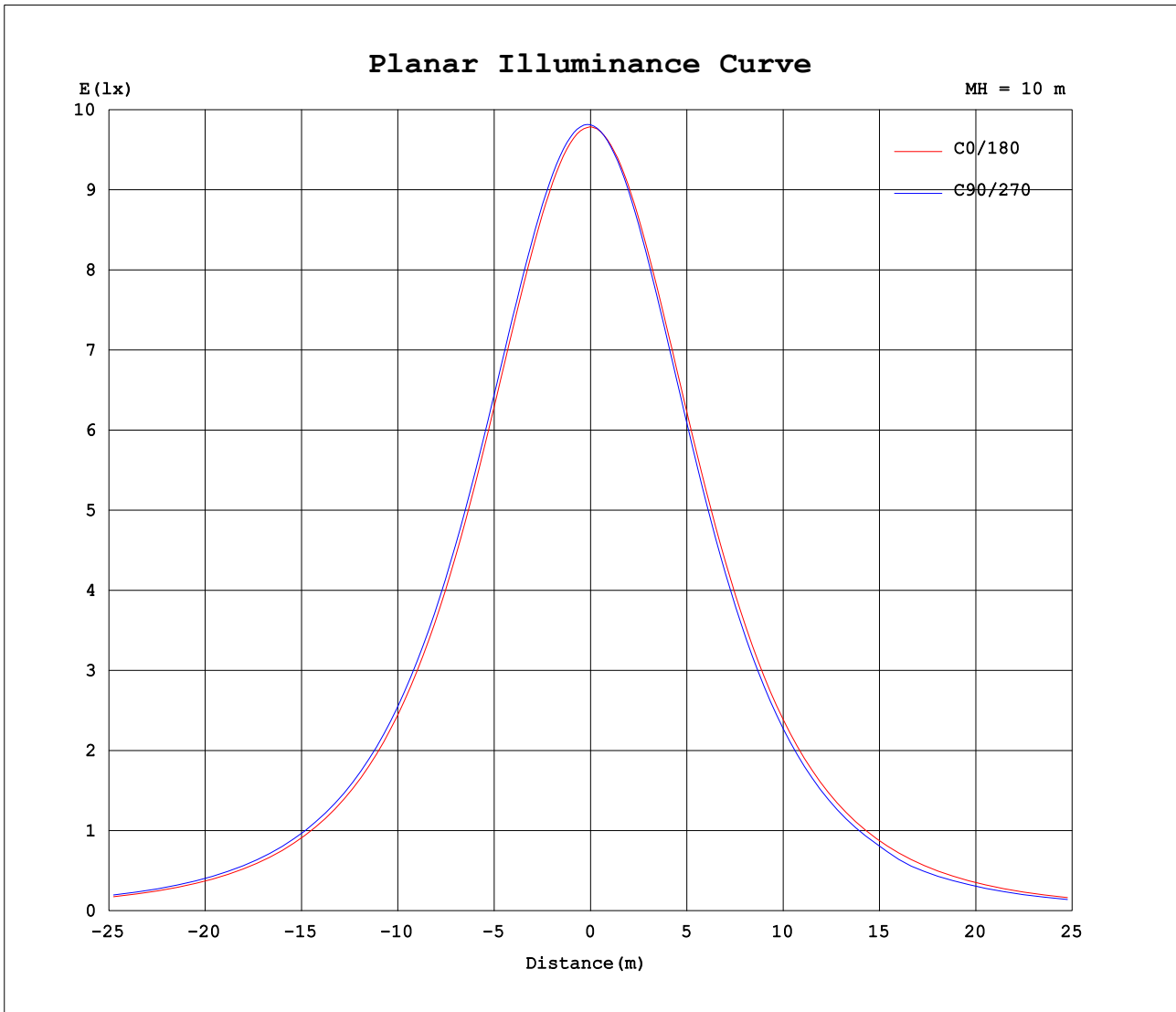
AvgL	cd/m2
L_0~180 (65) av	83448
L_0~180 (75) av	71749
L_0~180 (85) av	49680
L_90~270 (65) av	82523
L_90~270 (75) av	72122
L_90~270 (85) av	66476
L_45 (65) av	82728
L_45 (75) av	71733
L_45 (85) av	59765

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-08-08

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:2023-08-08

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:0.9393A P:22.544W PF:1.0000 Freq:0Hz Lamp Flux:2943.89x1 lm		
NAME: UB-RS-50K95C	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	979	981	979	981															
5	976	982	974	973															
10	965	976	962	957															
15	948	962	943	933															
20	922	940	916	902															
25	891	911	882	864															
30	851	875	841	819															
35	805	831	793	766															
40	752	780	738	708															
45	692	721	675	643															
50	625	657	607	572															
55	553	587	533	495															
60	475	509	453	393															
65	388	427	367	319															
70	300	340	278	234															
75	210	251	188	148															
80	123	165	105	71.2															
85	52.5	91.3	40.2	32.7															
90	7.85	39.5	3.60	7.52															
95	1.06	16.4	1.08	2.41															
100	1.17	6.07	1.32	1.59															
105	1.40	1.67	1.61	1.64															
110	1.71	1.60	1.91	1.86															
115	2.04	1.84	2.21	2.16															
120	2.36	2.09	2.54	2.54															
125	2.65	2.44	2.86	2.76															
130	2.94	2.75	3.14	3.05															
135	3.24	3.03	3.40	3.30															
140	3.47	3.34	3.65	3.56															
145	3.71	3.60	3.86	3.79															
150	3.92	3.84	4.04	3.99															
155	4.08	4.02	4.18	4.16															
160	4.22	4.20	4.32	4.35															
165	4.36	4.41	4.47	4.50															
170	4.47	4.56	4.56	4.64															
175	4.62	4.68	4.63	4.70															
180	4.58	4.68	4.68	4.73															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2023-08-08

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: