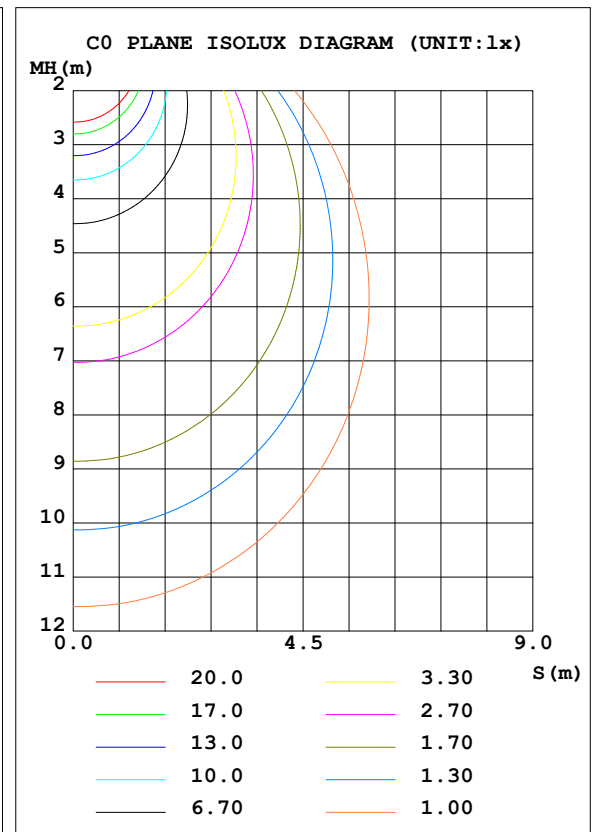
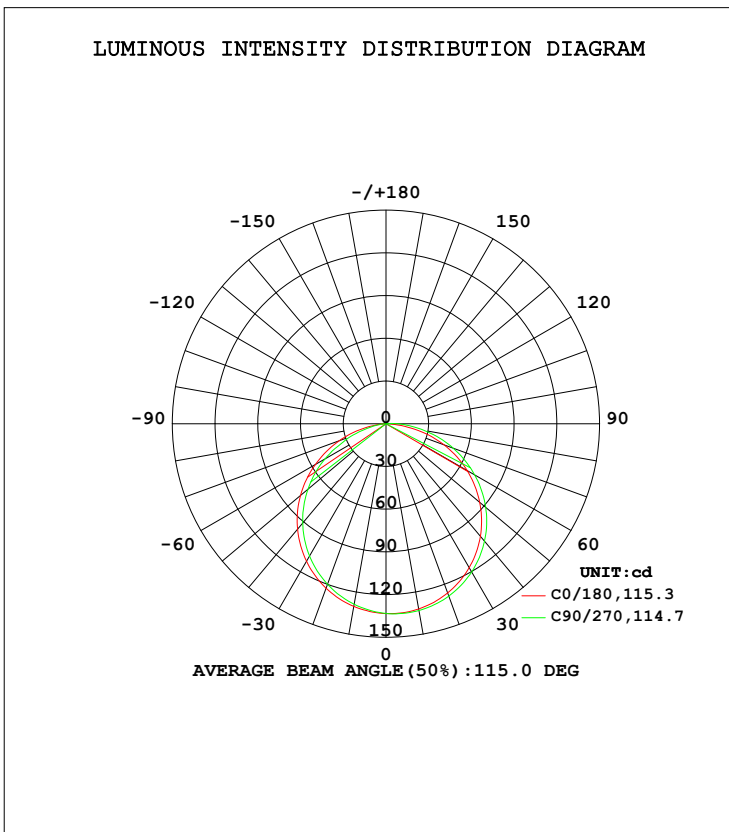


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	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: 41.42 lm/W			
MODEL		I _{max} (cd)	133.7	S/MH (C0/180)	1.25
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	395.81	η UP, DN (C0-180)	0.5, 54.4
NOMINAL FLUX (lm)	395.758	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 44.8
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: 2024-01-26

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:

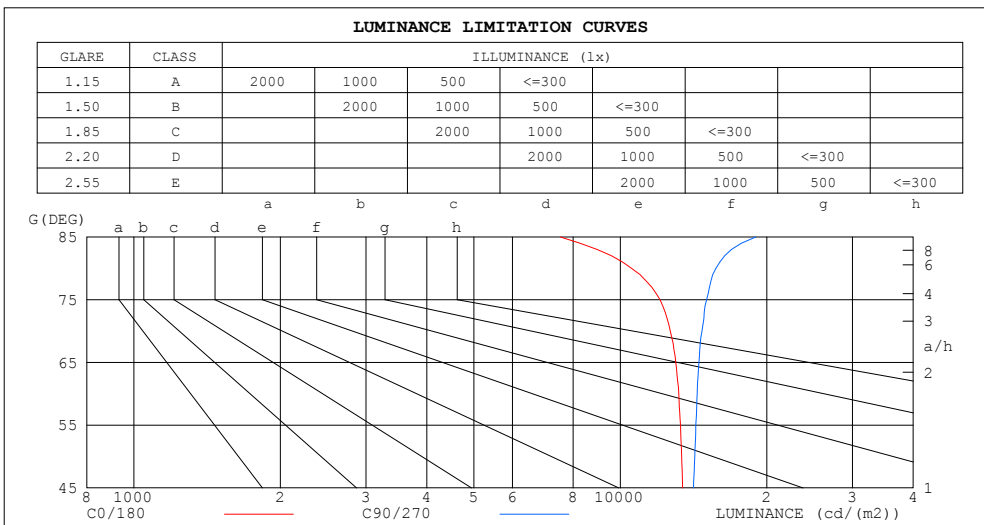
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	132.1	133.1	130.2	128.7				0- 10	12.61	12.61	3.19,3.19
20	126.5	128.8	123.0	120.0				10- 20	36.23	48.84	12.3,12.3
30	116.8	120.3	111.6	107.3				20- 30	55.21	104.1	26.3,26.3
40	103.2	107.7	96.65	91.06				30- 40	67.09	171.1	43.2,43.2
50	85.92	91.41	78.42	71.54				40- 50	70.27	241.4	61,61
60	65.94	71.92	57.31	49.47				50- 60	64.17	305.6	77.2,77.2
70	43.33	50.33	34.98	26.60				60- 70	49.44	355.0	89.7,89.7
80	18.31	27.30	12.27	7.389				70- 80	28.95	384.0	97,97
90	1.078	8.118	0.4576	0.5190				80- 90	8.753	392.7	99.2,99.2
100	0.1602	0.6756	0.2095	0.2177				90-100	1.145	393.9	99.5,99.5
110	0.1836	0.2440	0.3079	0.2311				100-110	0.2530	394.1	99.6,99.6
120	0.2412	0.3018	0.3819	0.2955				110-120	0.2656	394.4	99.6,99.7
130	0.3569	0.3744	0.4698	0.3662				120-130	0.3126	394.7	99.7,99.7
140	0.3964	0.4679	0.5297	0.4309				130-140	0.3246	395.0	99.8,99.8
150	0.4802	0.5337	0.5826	0.5148				140-150	0.3082	395.3	99.9,99.9
160	0.5415	0.5863	0.5858	0.5624				150-160	0.2560	395.6	99.9,100
170	0.5599	0.6050	0.5889	0.5763				160-170	0.1633	395.7	100,100
180	0.5912	0.6158	0.5912	0.6035				170-180	0.0559	395.8	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	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	7533	18985
80	10542	15720
75	12065	15050
70	12668	14715
65	13001	14506
60	13187	14384
55	13293	14294
50	13366	14220
45	13425	14141

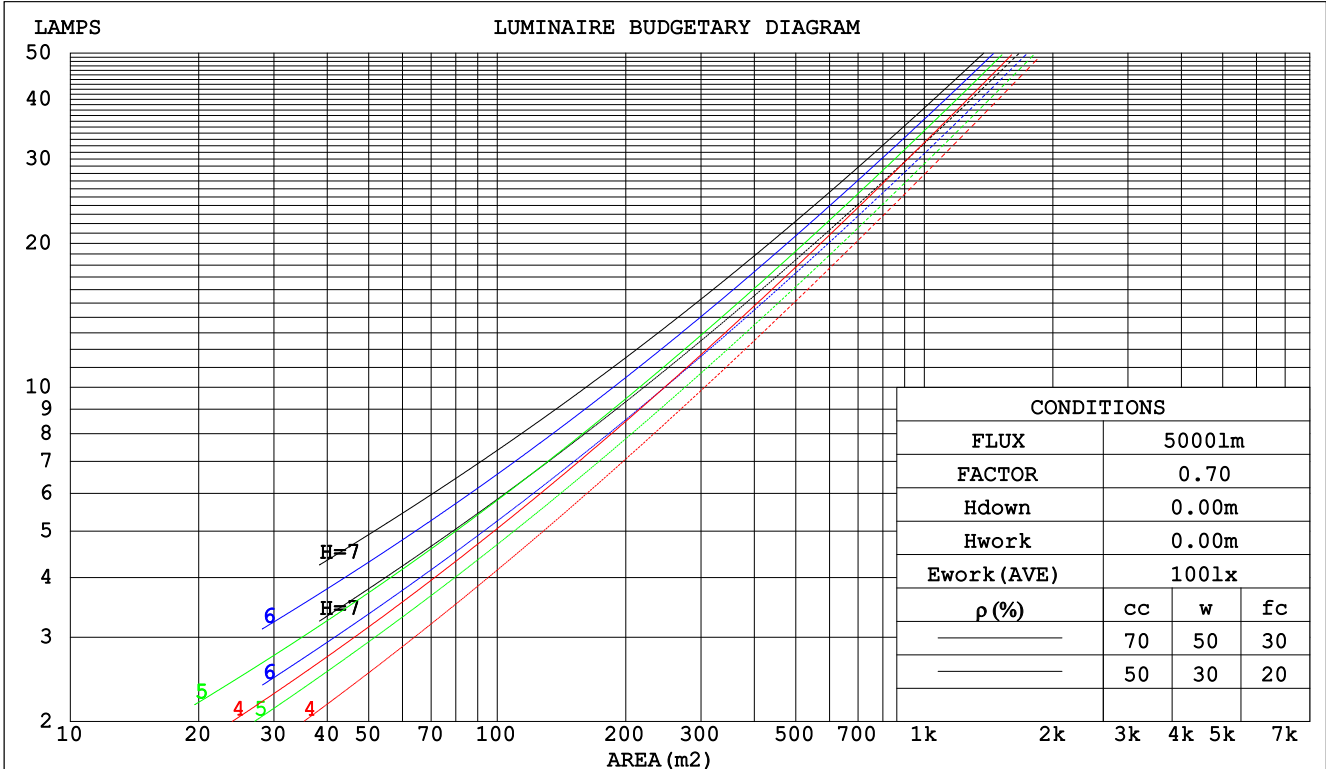
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	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	.93	.90	.87	.89	.87	.85	.82
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	.51	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.37	.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:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm								
NAME: AMBER			TYPE: LED Strip			WEIGHT:		
SPEC.: 9.8W			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	.316	.180	.057	.309	.176	.056	.295	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.296	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.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	.122	.037	.220	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.196	.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	.177	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.161	.081	.023	.156	.079	.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	.196	.196	.196	.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	.062	.061	.048	.037	.019	.015	.012	
3.0	.171	.120	.080	.147	.104	.069	.101	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.164	.107	.064	.140	.093	.056	.097	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.097	.053	.134	.084	.046	.092	.058	.033	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.045	.128	.077	.039	.088	.054	.028	.051	.032	.016	.017	.010	.005	
7.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
8.0	.136	.076	.035	.117	.066	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.071	.031	.112	.061	.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	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm										
NAME: AMBER			TYPE: LED Strip			WEIGHT:				
SPEC.: 9.8W			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	25.4	26.9	25.7	27.2	27.4	25.7	27.3	26.0	27.5	27.7
3H	27.1	28.5	27.4	28.8	29.0	27.6	29.0	27.9	29.3	29.5
4H	27.8	29.1	28.1	29.4	29.7	28.4	29.8	28.8	30.1	30.3
6H	28.3	29.6	28.6	29.8	30.1	29.2	30.4	29.5	30.7	31.0
8H	28.4	29.7	28.8	30.0	30.3	29.5	30.7	29.8	31.0	31.3
12H	28.5	29.7	28.9	30.0	30.3	29.8	31.0	30.1	31.3	31.6
4H 2H	26.1	27.5	26.5	27.8	28.0	26.4	27.7	26.7	28.0	28.3
3H	28.0	29.2	28.4	29.5	29.8	28.4	29.6	28.8	29.9	30.2
4H	28.9	29.9	29.3	30.3	30.6	29.4	30.5	29.8	30.8	31.2
6H	29.5	30.4	29.9	30.8	31.2	30.3	31.3	30.7	31.6	32.0
8H	29.7	30.6	30.1	31.0	31.4	30.7	31.6	31.1	32.0	32.4
12H	29.8	30.6	30.2	31.0	31.4	31.1	31.9	31.5	32.3	32.7
8H 4H	29.3	30.1	29.7	30.5	30.9	29.7	30.6	30.2	31.0	31.4
6H	30.1	30.8	30.5	31.2	31.7	30.8	31.5	31.3	32.0	32.4
8H	30.3	31.0	30.8	31.4	31.9	31.3	32.0	31.8	32.4	32.9
12H	30.5	31.1	31.0	31.5	32.0	31.8	32.4	32.3	32.8	33.3
12H 4H	29.3	30.1	29.7	30.5	30.9	29.8	30.6	30.2	31.0	31.4
6H	30.2	30.8	30.6	31.3	31.7	30.9	31.5	31.3	32.0	32.4
8H	30.5	31.1	31.0	31.5	32.0	31.4	32.0	31.9	32.5	32.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 395.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.2)
 Area: 0.01 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120

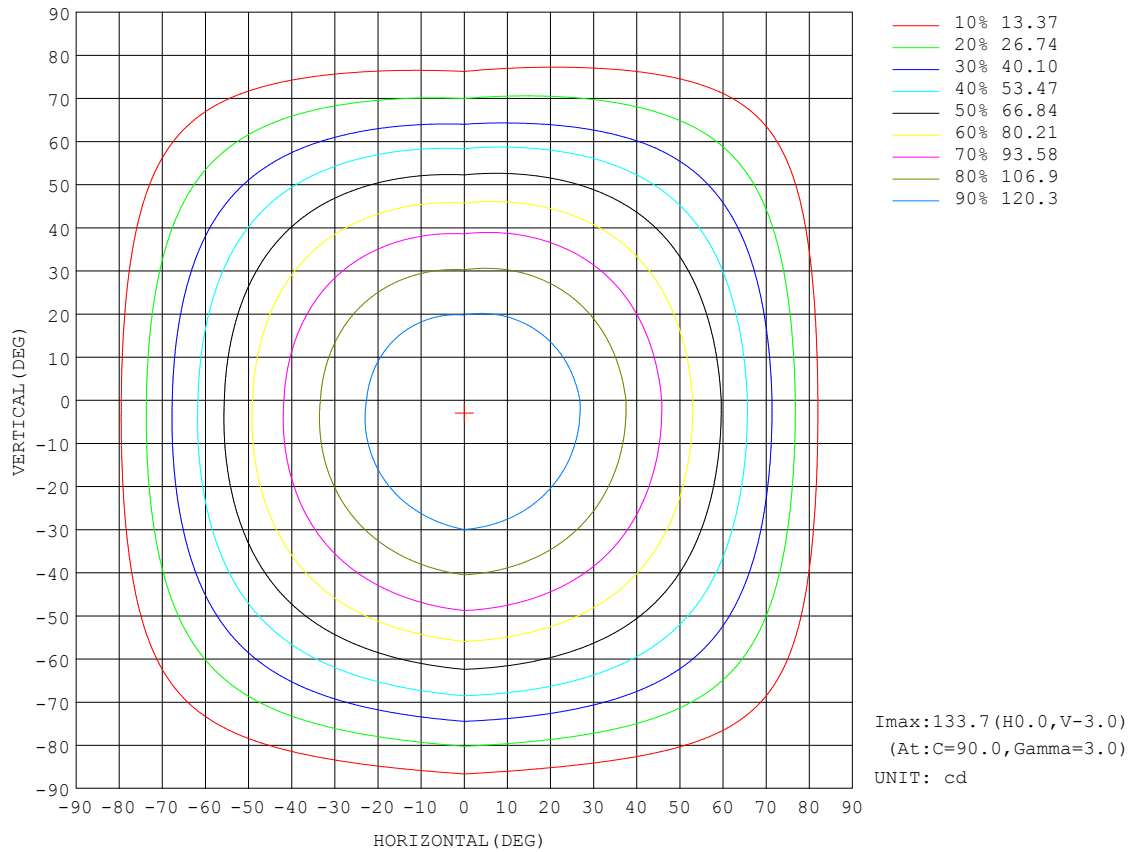
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	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	85	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	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:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120



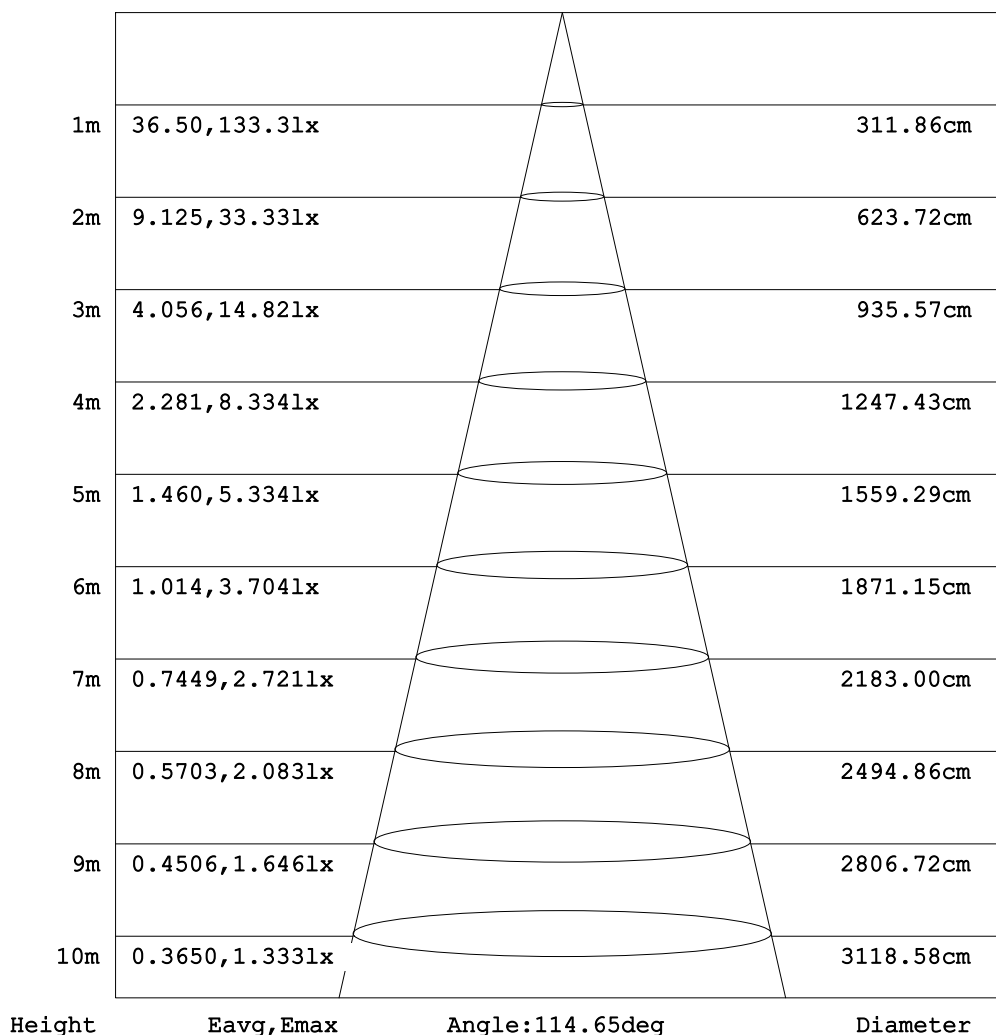
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120

Flux out:293.7 lm



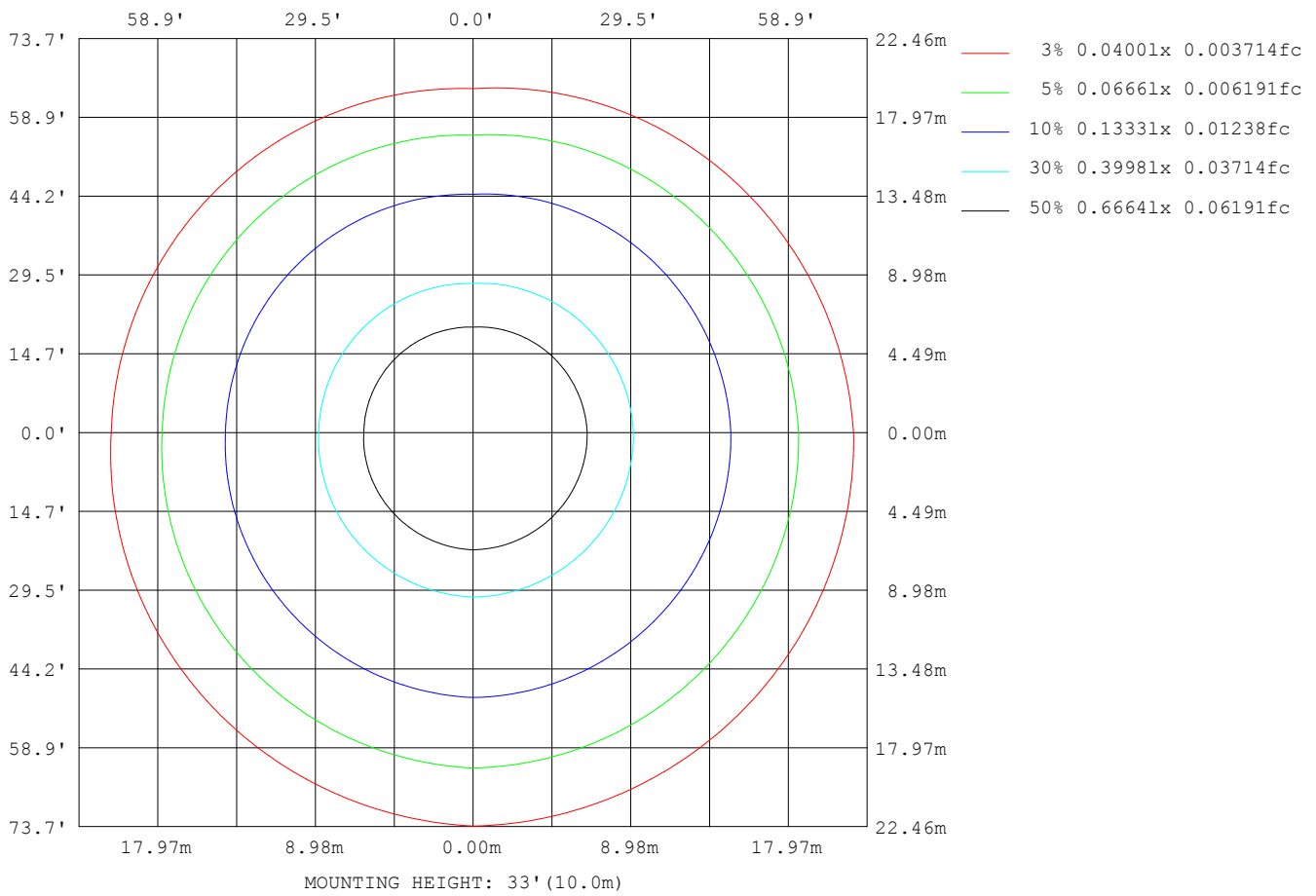
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	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:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	DIM.: 1000*10*2 (MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.01*1	Shielding Angle: 120

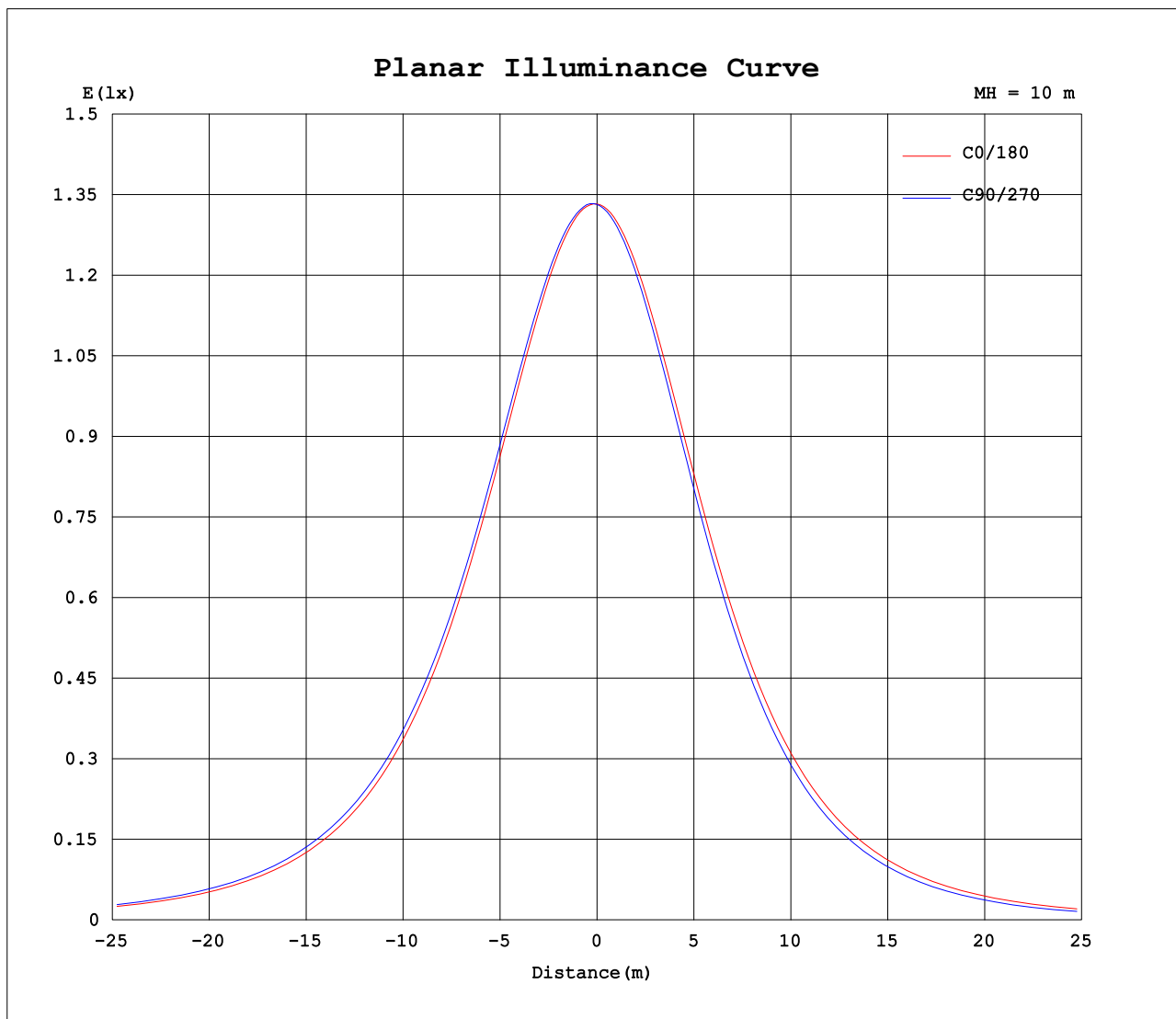
AvgL	cd/m2
L_0~180 (65) av	11958
L_0~180 (75) av	10601
L_0~180 (85) av	5772
L_90~270 (65) av	11635
L_90~270 (75) av	10550
L_90~270 (85) av	10917
L_45 (65) av	11691
L_45 (75) av	10478
L_45 (85) av	8877

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:2024-01-26

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:24.003V I:0.3981A P:9.5556W PF:1.0000 Freq:0Hz Lamp Flux:395.758x1 lm		
NAME: AMBER	TYPE: LED Strip	WEIGHT:
SPEC.: 9.8W	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	133	133	133	133															
5	133	134	132	132															
10	132	133	130	129															
15	130	132	127	125															
20	126	129	123	120															
25	122	125	118	114															
30	117	120	112	107															
35	110	114	105	99.6															
40	103	108	96.6	91.1															
45	94.9	100.0	87.9	81.6															
50	85.9	91.4	78.4	71.5															
55	76.2	82.0	68.2	60.9															
60	65.9	71.9	57.3	49.5															
65	54.9	61.3	46.1	37.0															
70	43.3	50.3	35.0	26.6															
75	31.2	39.0	23.6	15.7															
80	18.3	27.3	12.3	7.39															
85	6.57	16.5	3.50	2.48															
90	1.08	8.12	0.46	0.52															
95	0.16	2.95	0.19	0.21															
100	0.16	0.68	0.21	0.22															
105	0.17	0.27	0.27	0.22															
110	0.18	0.24	0.31	0.23															
115	0.20	0.27	0.34	0.25															
120	0.24	0.30	0.38	0.30															
125	0.32	0.33	0.44	0.34															
130	0.36	0.37	0.47	0.37															
135	0.36	0.41	0.51	0.39															
140	0.40	0.47	0.53	0.43															
145	0.44	0.51	0.56	0.47															
150	0.48	0.53	0.58	0.51															
155	0.53	0.55	0.58	0.55															
160	0.54	0.59	0.59	0.56															
165	0.55	0.60	0.59	0.57															
170	0.56	0.61	0.59	0.58															
175	0.57	0.61	0.59	0.58															
180	0.59	0.62	0.59	0.60															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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