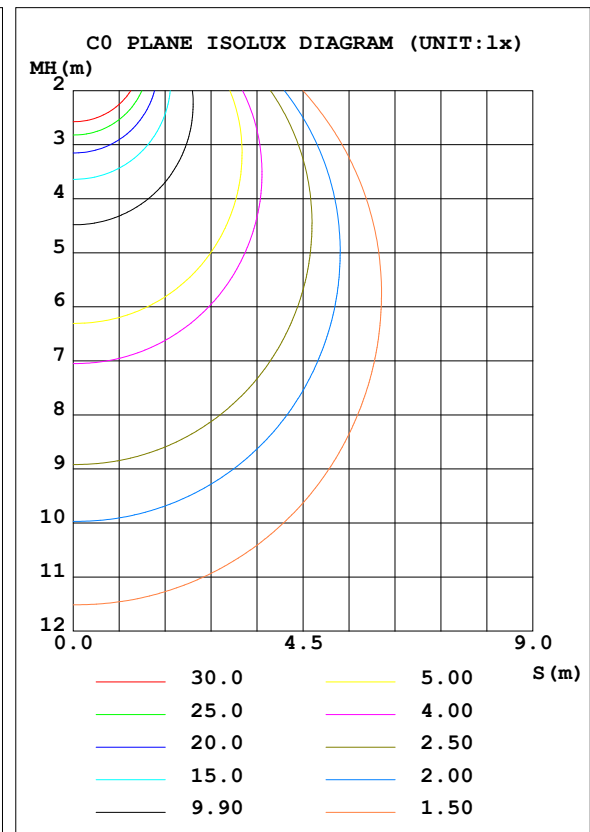
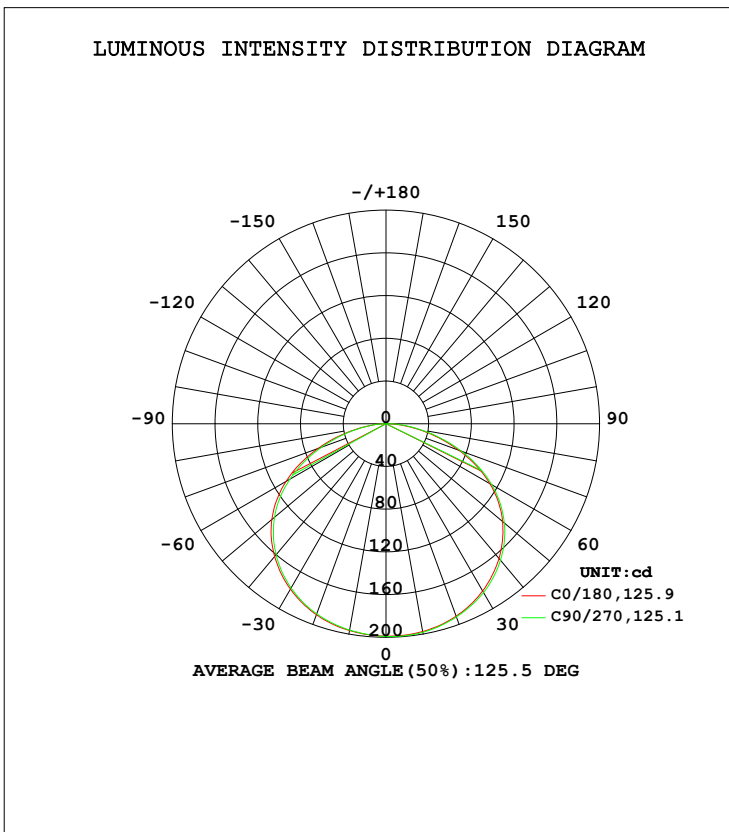


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.003V I:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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: 69.62 lm/W			
MODEL		I _{max} (cd)	199.4	S/MH (C0/180)	1.34
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.33
RATED VOLTAGE (V)		TOTAL FLUX (lm)	658.58	η UP, DN (C0-180)	0.3, 51.0
NOMINAL FLUX (lm)	658.551	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 48.4
LAMPS INSIDE	1	η up (%)	0.6	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	99.4	CIBSE SHR MAX	1.55



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:

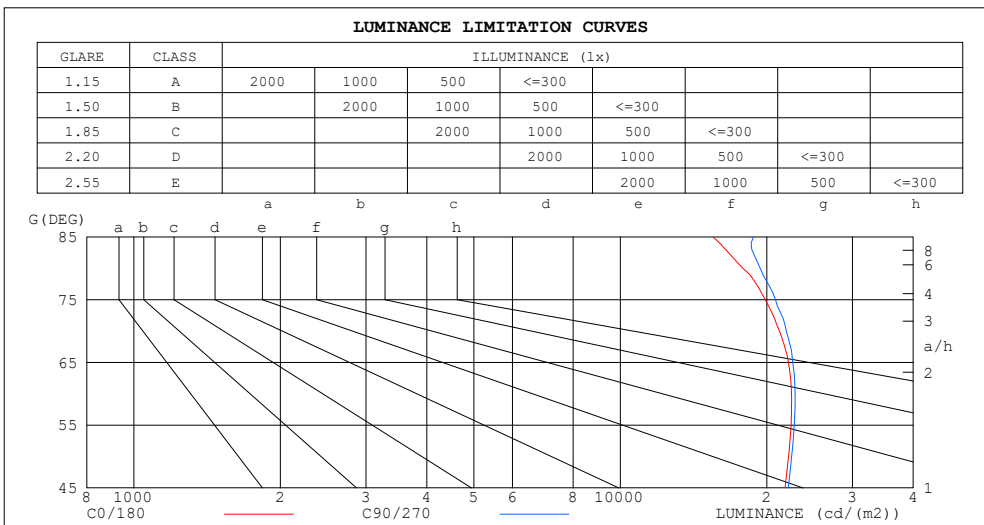
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	197.5	198.3	196.6	196.2				0- 10	18.91	18.91	2.87,2.87
20	191.8	192.5	190.3	189.6				10- 20	55.04	73.95	11.2,11.2
30	180.9	182.5	178.9	177.7				20- 30	85.91	159.9	24.3,24.3
40	164.6	166.8	162.2	160.1				30- 40	107.9	267.8	40.7,40.7
50	142.5	144.6	139.5	136.3				40- 50	118.0	385.8	58.6,58.6
60	112.4	114.4	108.1	104.0				50- 60	112.8	498.5	75.7,75.7
70	72.62	75.04	67.47	64.22				60- 70	89.48	588.0	89.3,89.3
80	31.02	33.68	26.57	24.88				70- 80	51.74	639.8	97.1,97.1
90	1.954	4.902	0.2462	2.570				80- 90	14.93	654.7	99.4,99.4
100	0.2872	0.3057	0.3327	0.2987				90-100	0.7548	655.5	99.5,99.5
110	0.3449	0.4064	0.4805	0.3744				100-110	0.3628	655.8	99.6,99.6
120	0.5289	0.5296	0.6035	0.4923				110-120	0.4517	656.3	99.6,99.7
130	0.5910	0.6651	0.7390	0.6004				120-130	0.5329	656.8	99.7,99.7
140	0.7267	0.7636	0.8172	0.7510				130-140	0.5414	657.3	99.8,99.8
150	0.7759	0.8499	0.8746	0.7718				140-150	0.4978	657.8	99.9,99.9
160	0.8153	0.9220	0.9360	0.8496				150-160	0.3914	658.2	99.9,100
170	0.9113	0.9667	0.9668	0.9359				160-170	0.2576	658.5	100,100
180	0.9607	0.9730	0.9607	0.9730				170-180	0.0914	658.6	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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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	15519	18762
80	17864	19394
75	19858	20836
70	21234	21941
65	22165	22617
60	22487	22874
55	22445	22778
50	22170	22493
45	21816	22144

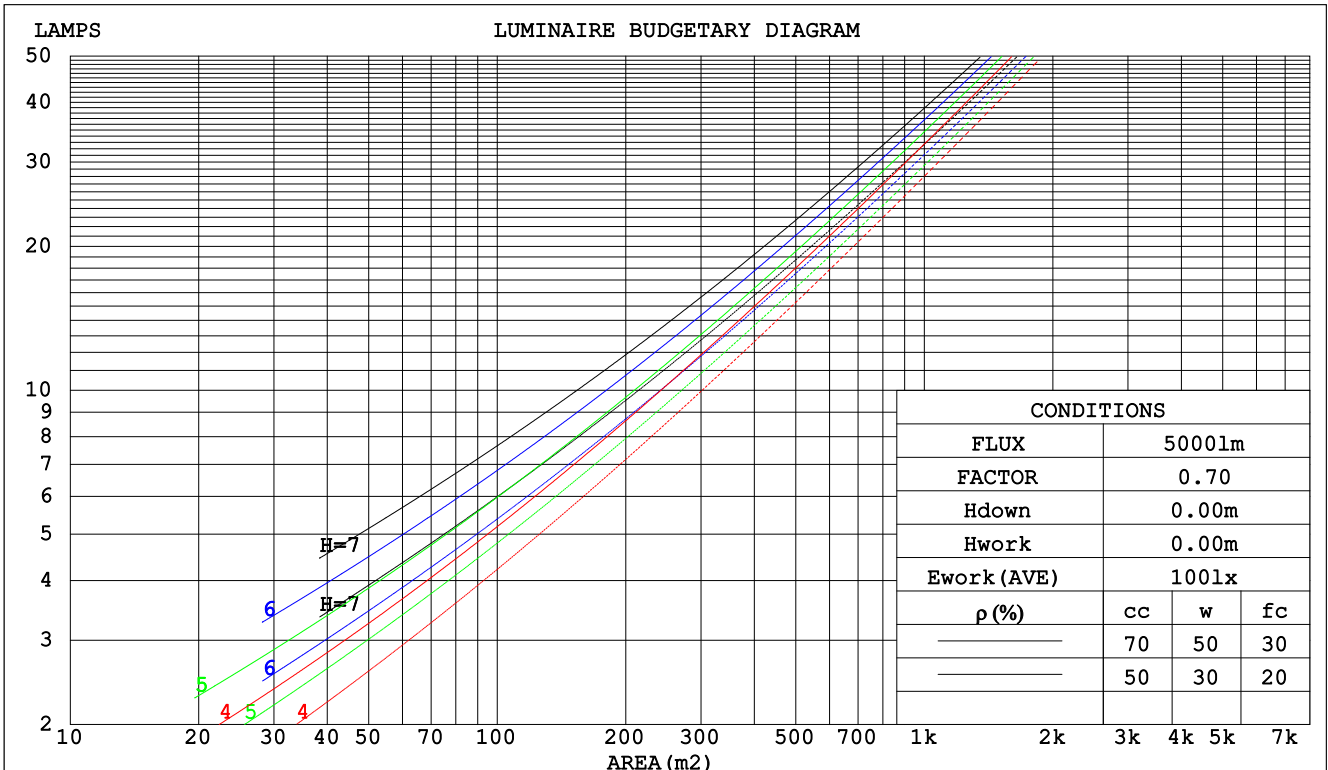
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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	1.02	1.02	1.02	.99
1.0	1.03	.98	.94	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.61	.70	.64	.59	.67	.63	.58	.56
4.0	.68	.59	.52	.67	.59	.52	.64	.57	.51	.62	.56	.50	.60	.54	.50	.47
5.0	.61	.52	.45	.60	.51	.44	.57	.50	.44	.55	.49	.43	.53	.47	.43	.41
6.0	.55	.45	.39	.54	.45	.38	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.41	.35	.30	.40	.34	.29	.27
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.24
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22



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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm								
NAME: GREEN			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	.324	.184	.058	.317	.181	.057	.303	.174	.056	.291	.168	.054	.279	.162	.052	
2.0	.303	.166	.051	.297	.164	.050	.285	.158	.049	.274	.154	.048	.263	.149	.047	
3.0	.280	.149	.045	.274	.147	.044	.263	.143	.043	.253	.139	.043	.244	.135	.042	
4.0	.257	.134	.039	.252	.132	.039	.243	.129	.038	.234	.126	.038	.225	.123	.037	
5.0	.237	.121	.035	.233	.119	.035	.224	.117	.034	.216	.114	.034	.209	.112	.034	
6.0	.219	.110	.031	.215	.109	.031	.208	.106	.031	.201	.104	.031	.194	.102	.030	
7.0	.204	.101	.029	.200	.100	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.169	.087	.025	
9.0	.178	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.024	.159	.081	.023	
10.0	.167	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.150	.076	.022	

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	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.186	.161	.138	.159	.138	.119	.109	.095	.082	.063	.055	.048	.020	.018	.015	
2.0	.178	.136	.101	.153	.117	.087	.105	.081	.061	.060	.047	.036	.019	.015	.012	
3.0	.171	.119	.078	.147	.103	.067	.101	.071	.047	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.062	.140	.091	.054	.096	.064	.038	.056	.037	.022	.018	.012	.007	
5.0	.156	.095	.051	.134	.083	.044	.092	.058	.031	.053	.034	.019	.017	.011	.006	
6.0	.149	.087	.043	.128	.076	.037	.088	.053	.026	.051	.031	.016	.017	.010	.005	
7.0	.142	.080	.037	.122	.070	.032	.084	.049	.023	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.033	.116	.065	.029	.081	.045	.020	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.029	.111	.060	.026	.077	.042	.018	.045	.025	.011	.015	.008	.004	
10.0	.123	.065	.027	.106	.057	.023	.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: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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm										
NAME: GREEN				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	27.0	25.7	27.2	27.4	25.5	27.0	25.7	27.2	27.5
3H	27.1	28.5	27.4	28.8	29.0	27.2	28.6	27.5	28.9	29.1
4H	27.8	29.1	28.1	29.4	29.7	27.9	29.3	28.2	29.5	29.8
6H	28.2	29.5	28.6	29.8	30.1	28.4	29.7	28.8	30.0	30.3
8H	28.4	29.6	28.7	29.9	30.2	28.6	29.8	28.9	30.1	30.4
12H	28.5	29.7	28.8	30.0	30.3	28.7	29.9	29.1	30.2	30.5
4H 2H	26.1	27.5	26.4	27.7	28.0	26.1	27.5	26.5	27.8	28.1
3H	28.0	29.2	28.3	29.5	29.8	28.0	29.2	28.4	29.6	29.9
4H	28.7	29.8	29.1	30.2	30.5	28.9	30.0	29.2	30.3	30.6
6H	29.3	30.3	29.8	30.7	31.1	29.5	30.5	29.9	30.9	31.2
8H	29.6	30.5	30.0	30.8	31.2	29.7	30.7	30.2	31.0	31.4
12H	29.7	30.5	30.1	30.9	31.3	29.9	30.8	30.4	31.2	31.6
8H 4H	29.0	30.0	29.5	30.3	30.7	29.2	30.1	29.6	30.4	30.8
6H	29.8	30.6	30.3	31.0	31.4	30.0	30.7	30.4	31.1	31.6
8H	30.1	30.8	30.6	31.2	31.7	30.3	31.0	30.8	31.4	31.9
12H	30.3	30.9	30.8	31.4	31.9	30.6	31.1	31.1	31.6	32.1
12H 4H	29.1	29.9	29.5	30.3	30.7	29.2	30.0	29.6	30.4	30.8
6H	29.9	30.6	30.4	31.0	31.5	30.0	30.7	30.5	31.1	31.6
8H	30.2	30.8	30.7	31.3	31.8	30.4	31.0	30.9	31.4	31.9
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					+ 0.2 / - 0.4				

CIE Pub.117, 658.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.5)
 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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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

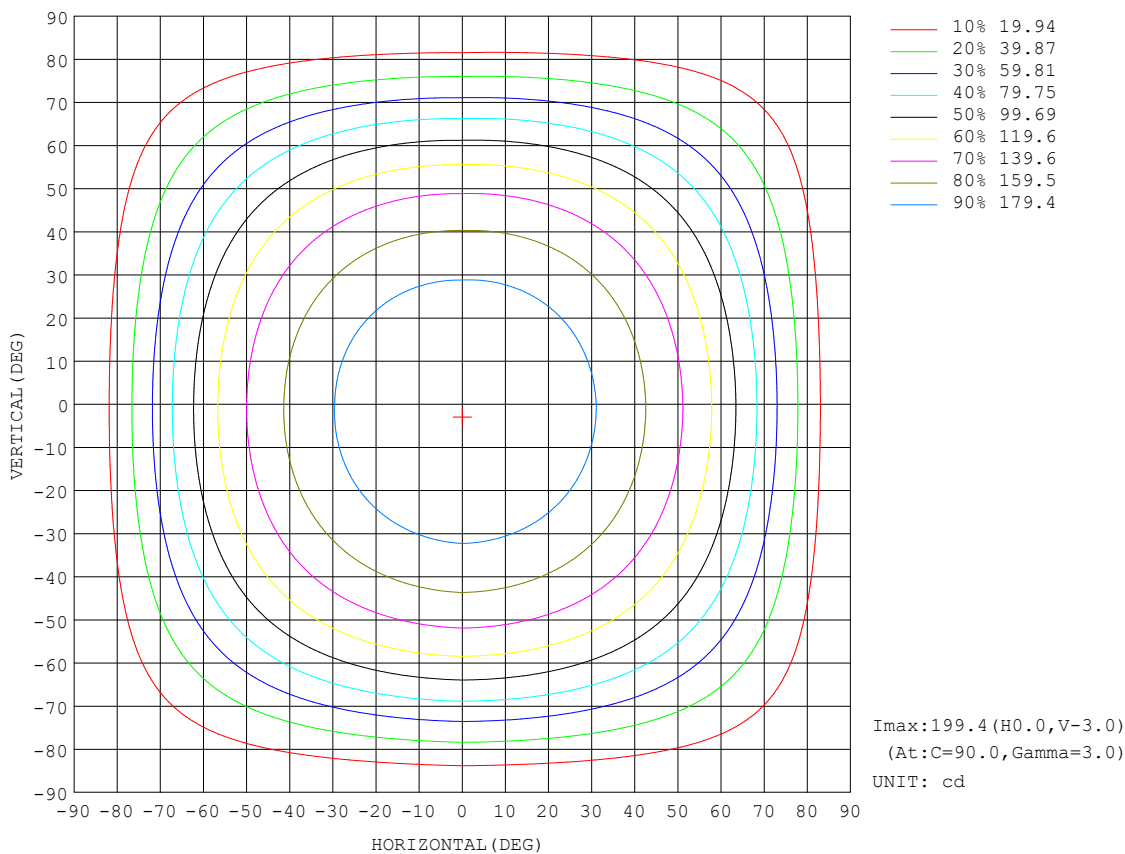
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	53	42	36	29
0.80	65	53	46	64	53	45	62	52	45	38
1.00	74	62	55	73	62	54	70	63	54	46
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	69	85	75	68	81	73	67	59
2.00	93	84	78	92	83	77	88	81	75	67
2.50	98	89	83	95	88	82	91	85	80	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	103	99	105	101	97	101	97	94	84
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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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

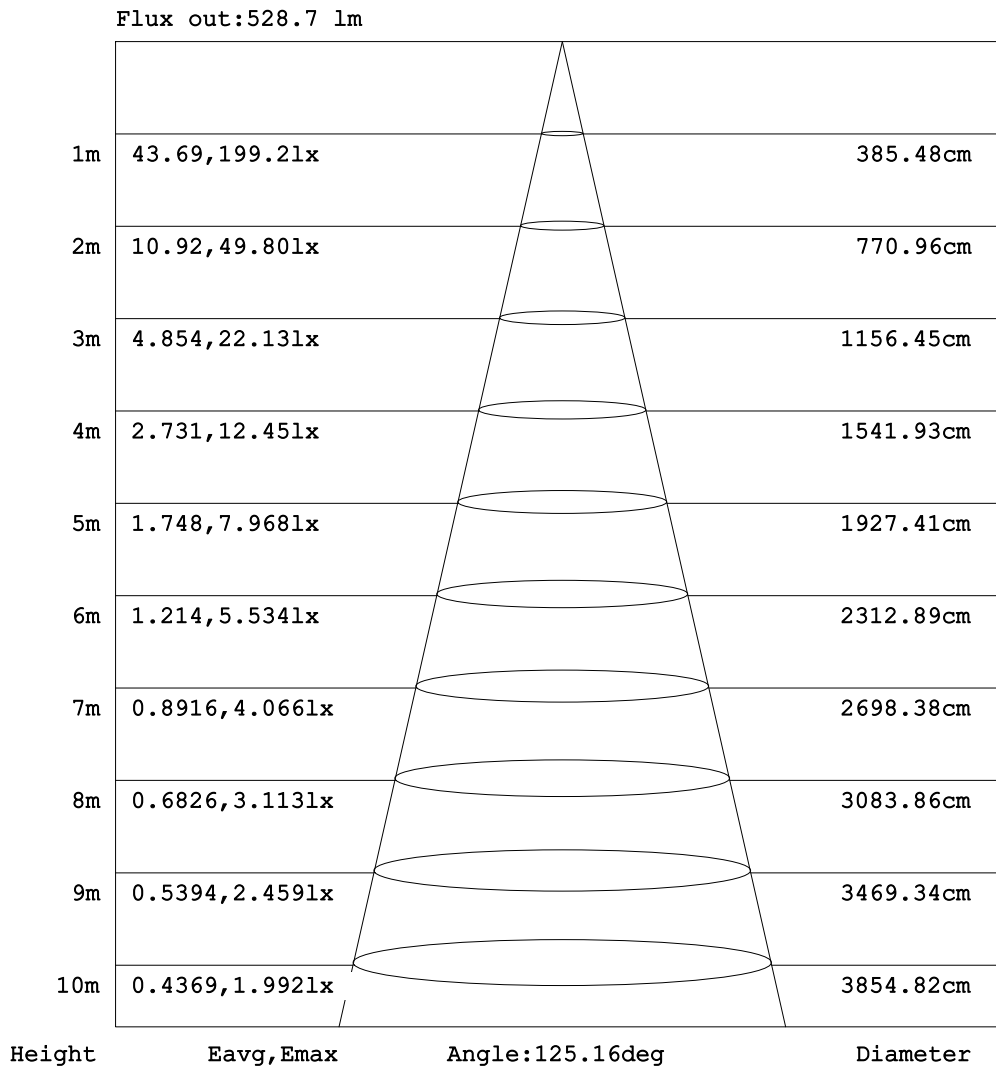


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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



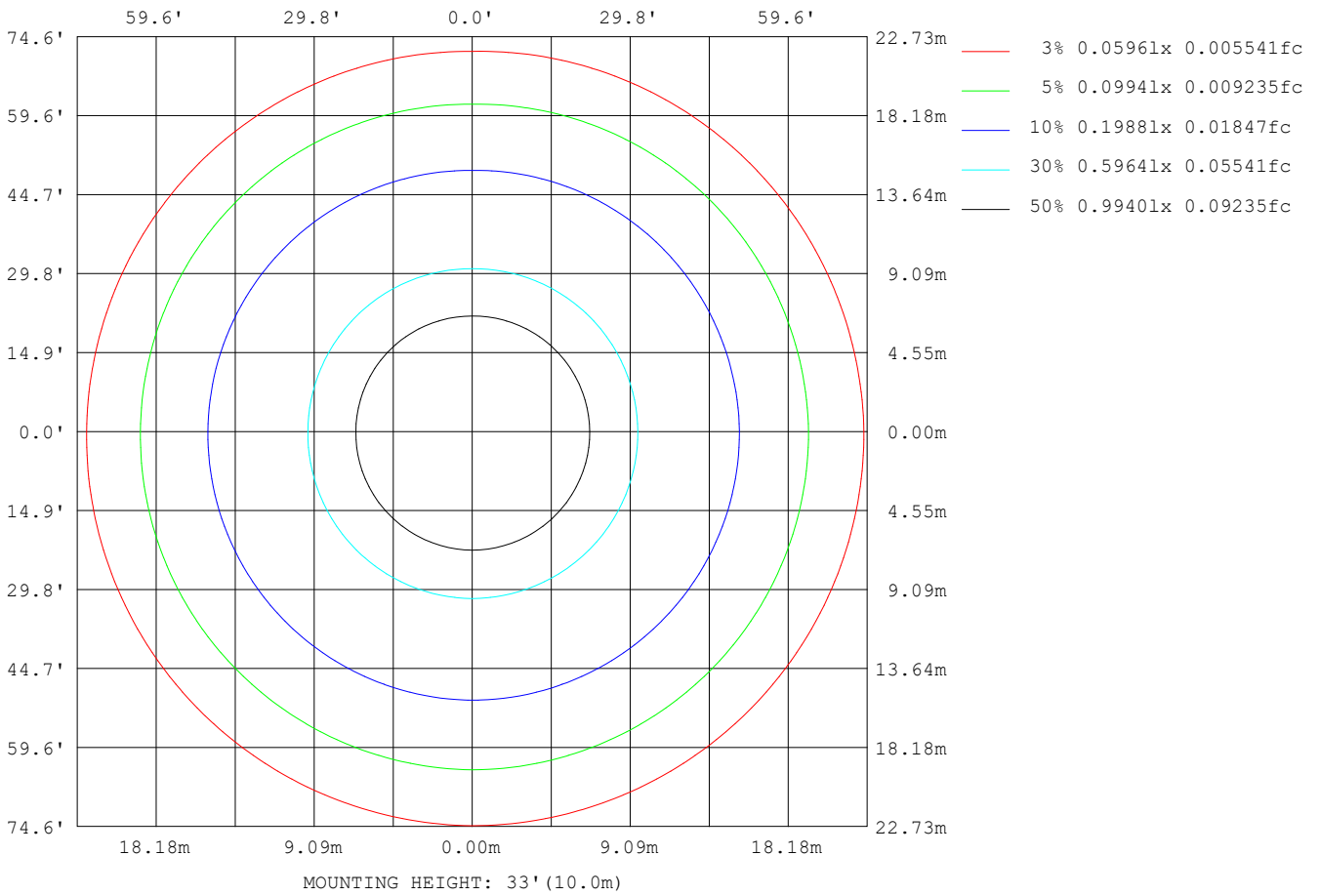
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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

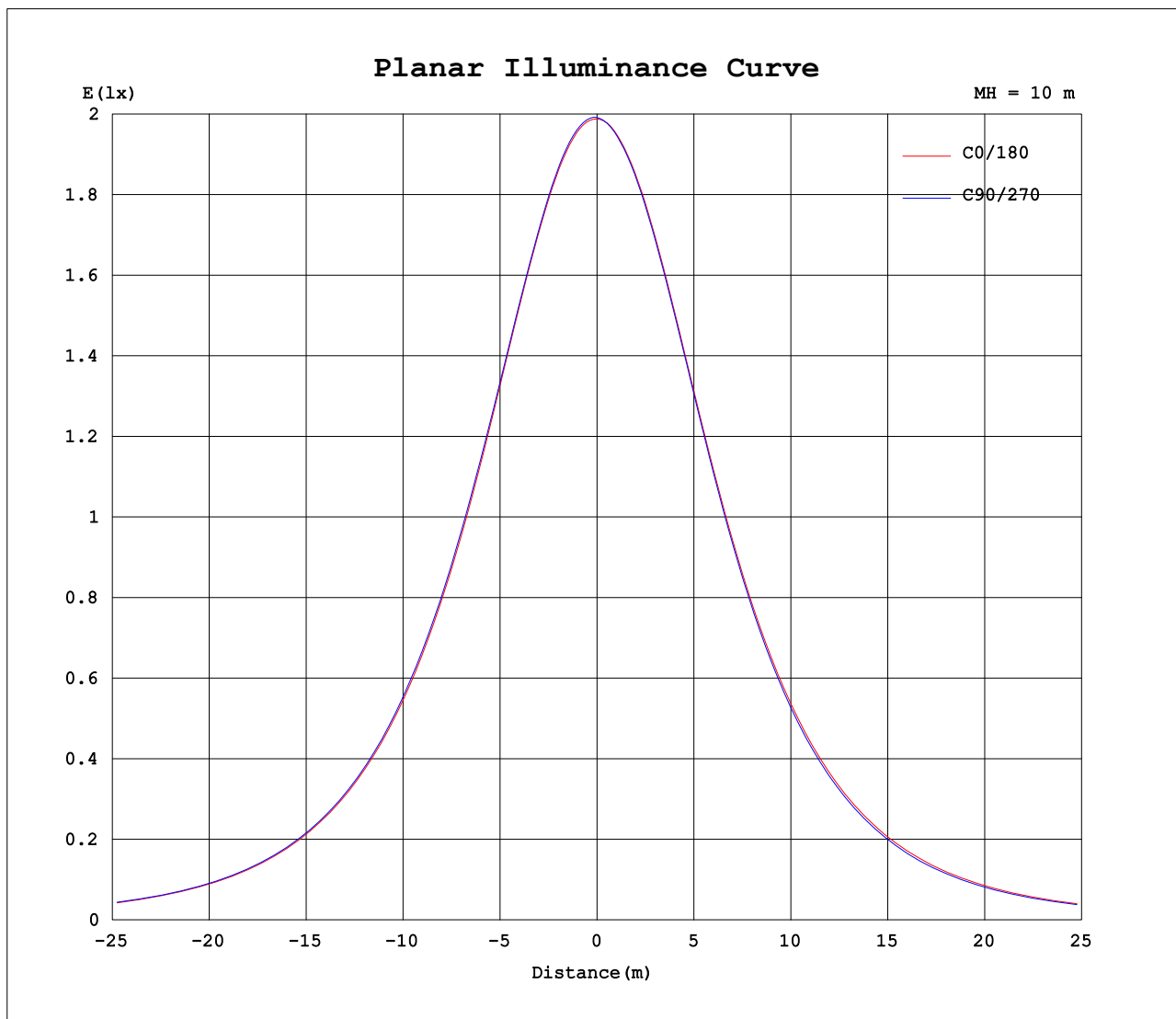
AvgL	cd/m2
L_0~180 (65) av	21592
L_0~180 (75) av	18858
L_0~180 (85) av	13656
L_90~270 (65) av	21336
L_90~270 (75) av	18867
L_90~270 (85) av	15231
L_45 (65) av	21396
L_45 (75) av	18801
L_45 (85) av	14524

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:0.3941A P:9.4596W PF:1.0000 Freq:0Hz Lamp Flux:658.551x1 lm		
NAME: GREEN	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	199	199	199	199															
5	199	199	198	198															
10	198	198	197	196															
15	195	196	194	193															
20	192	193	190	190															
25	187	188	185	184															
30	181	183	179	178															
35	173	175	171	170															
40	165	167	162	160															
45	154	157	152	149															
50	143	145	140	136															
55	129	131	125	121															
60	112	114	108	104															
65	93.7	95.6	88.8	84.8															
70	72.6	75.0	67.5	64.2															
75	51.4	53.9	46.2	43.7															
80	31.0	33.7	26.6	24.9															
85	13.5	16.4	10.3	10.2															
90	1.95	4.90	0.25	2.57															
95	0.28	0.42	0.28	0.56															
100	0.29	0.31	0.33	0.30															
105	0.30	0.33	0.39	0.31															
110	0.34	0.41	0.48	0.37															
115	0.41	0.46	0.54	0.41															
120	0.53	0.53	0.60	0.49															
125	0.56	0.60	0.67	0.55															
130	0.59	0.67	0.74	0.60															
135	0.65	0.73	0.78	0.64															
140	0.73	0.76	0.82	0.75															
145	0.76	0.80	0.86	0.76															
150	0.78	0.85	0.87	0.77															
155	0.79	0.88	0.91	0.80															
160	0.82	0.92	0.94	0.85															
165	0.86	0.95	0.96	0.89															
170	0.91	0.97	0.97	0.94															
175	0.94	0.97	0.97	0.97															
180	0.96	0.97	0.96	0.97															

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
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