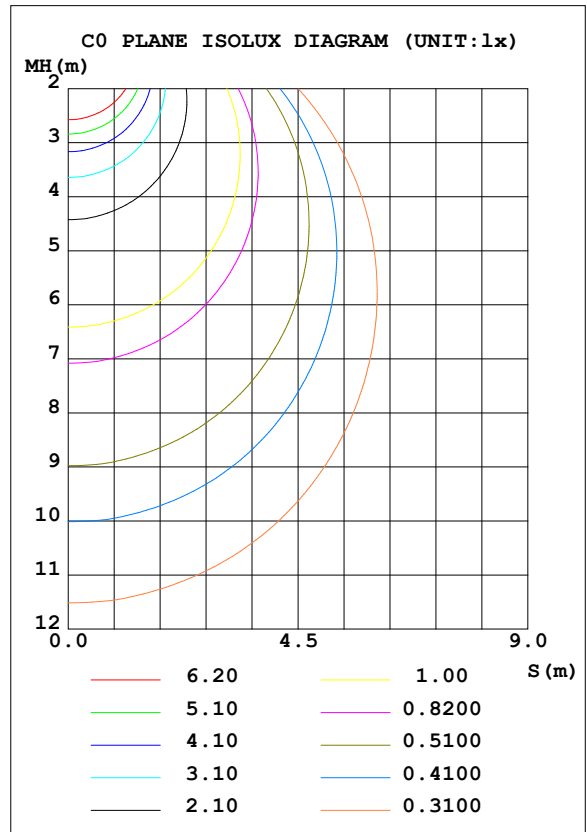
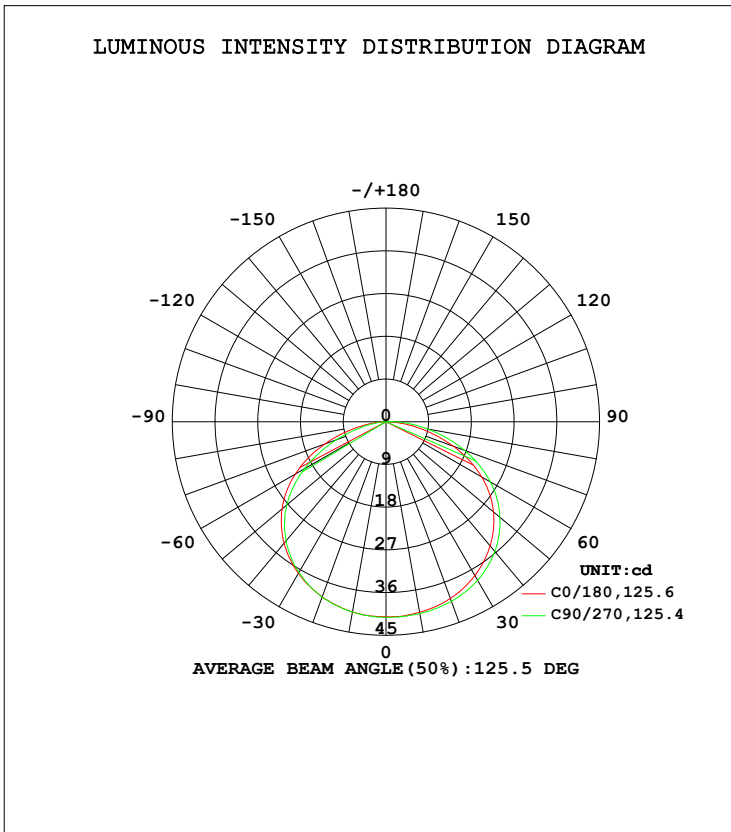


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.003V I:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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: 13.88 lm/W			
MODEL		I _{max} (cd)	41.21	S/MH (C0/180)	1.34
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE (V)		TOTAL FLUX (lm)	136.53	η UP, DN (C0-180)	0.4, 52.6
NOMINAL FLUX (lm)	136.529	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 46.7
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:

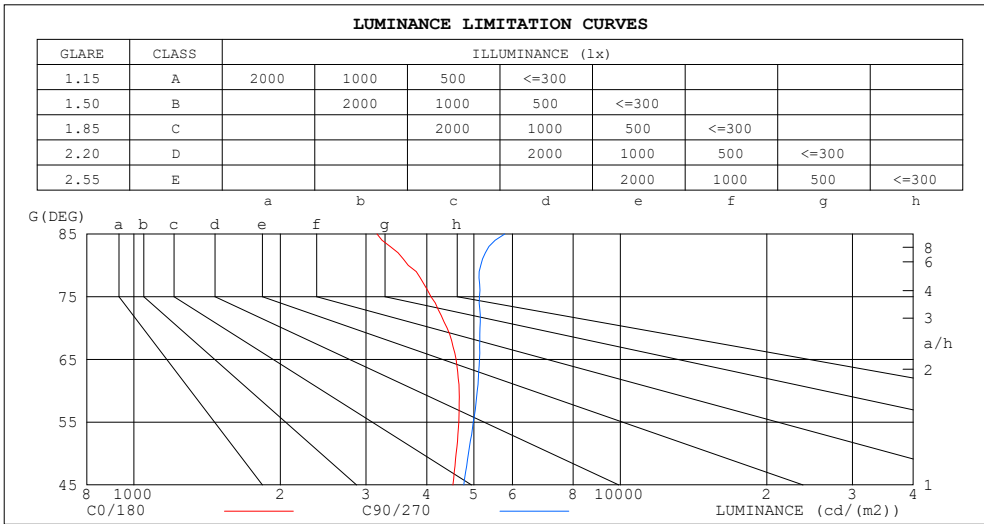
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	40.77	41.04	40.69	40.72				0- 10	3.912	3.912	2.87,2.87
20	39.64	40.25	39.27	39.31				10- 20	11.40	15.31	11.2,11.2
30	37.42	38.59	36.88	36.67				20- 30	17.83	33.14	24.3,24.3
40	34.12	35.66	33.38	32.74				30- 40	22.44	55.58	40.7,40.7
50	29.54	31.32	28.57	27.29				40- 50	24.51	80.09	58.7,58.7
60	23.31	25.39	22.06	19.77				50- 60	23.34	103.4	75.7,75.8
70	15.07	17.59	13.74	11.10				60- 70	18.42	121.8	89.2,89.2
80	6.365	8.971	5.250	3.392				70- 80	10.64	132.5	97,97
90	0.4474	1.991	0.0738	0.2347				80- 90	3.195	135.7	99.4,99.4
100	0.0616	0.0739	0.0862	0.0739				90-100	0.2304	135.9	99.5,99.5
110	0.0616	0.0862	0.1140	0.0739				100-110	0.0837	136.0	99.6,99.6
120	0.0616	0.1305	0.1491	0.0739				110-120	0.0914	136.1	99.7,99.7
130	0.0616	0.1531	0.1630	0.0862				120-130	0.0983	136.2	99.7,99.7
140	0.1230	0.1730	0.1797	0.1231				130-140	0.1010	136.3	99.8,99.8
150	0.1494	0.1879	0.1940	0.1536				140-150	0.1001	136.4	99.9,99.9
160	0.1700	0.1921	0.1952	0.1684				150-160	0.0821	136.5	99.9,100
170	0.1787	0.1875	0.1963	0.1848				160-170	0.0521	136.5	100,100
180	0.1847	0.1847	0.1971	0.1971				170-180	0.0180	136.5	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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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	3160	5786
80	3665	5166
75	4082	5132
70	4407	5144
65	4595	5134
60	4662	5078
55	4654	4985
50	4596	4872
45	4526	4765

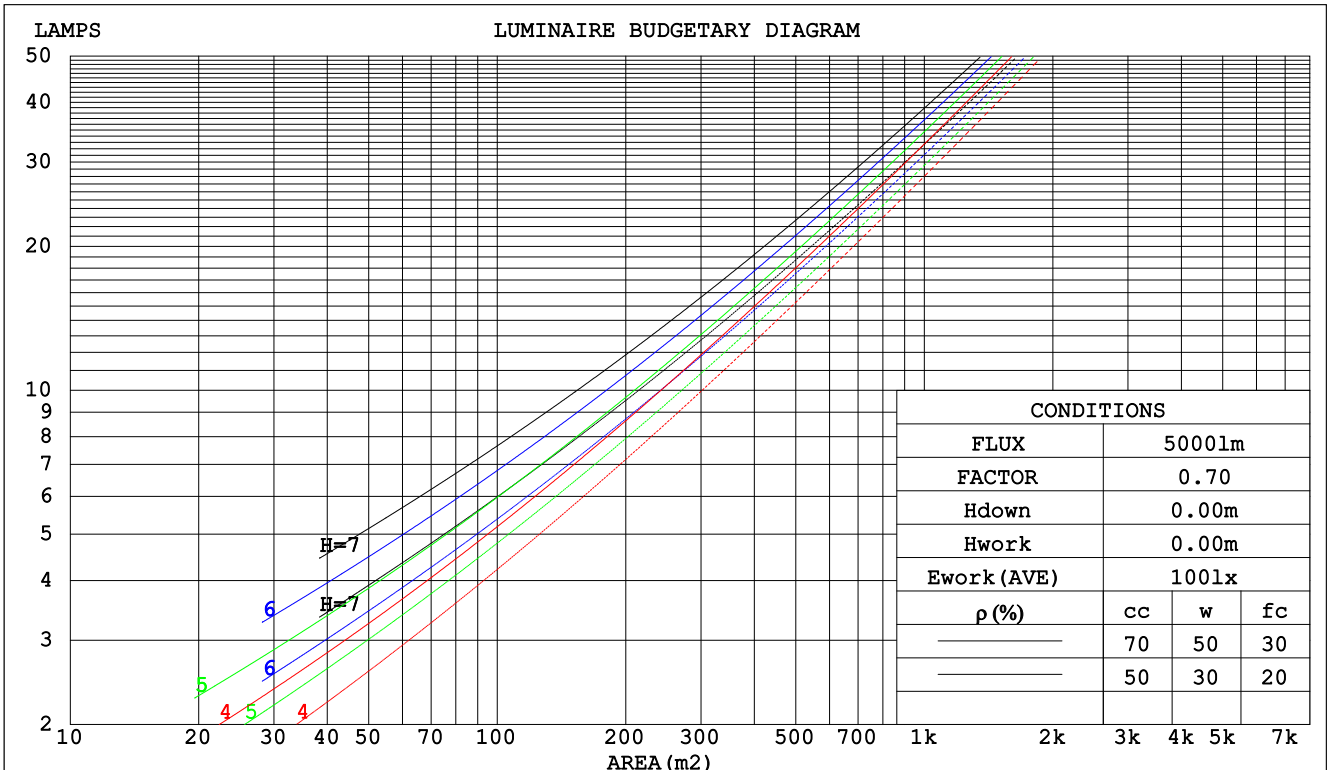
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Test Date:2024-01-26

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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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	.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	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm														
NAME: BLUE					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	.153	.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	.242	.129	.038	.234	.125	.038	.225	.122	.037	
5.0	.237	.121	.035	.232	.119	.035	.224	.117	.034	.216	.114	.034	.209	.111	.033	
6.0	.219	.110	.031	.215	.109	.031	.208	.106	.031	.200	.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	.180	.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	.154	.077	.022	.150	.075	.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	.179	.137	.101	.153	.118	.088	.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	.164	.106	.062	.140	.092	.054	.097	.064	.038	.056	.037	.022	.018	.012	.007	
5.0	.156	.096	.051	.134	.083	.044	.092	.058	.031	.054	.034	.019	.017	.011	.006	
6.0	.149	.087	.043	.128	.076	.038	.088	.053	.027	.051	.031	.016	.017	.010	.005	
7.0	.142	.081	.038	.122	.070	.033	.084	.049	.023	.049	.029	.014	.016	.009	.005	
8.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.026	.077	.043	.018	.045	.025	.011	.015	.008	.004	
10.0	.124	.066	.027	.107	.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: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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm										
NAME: BLUE				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	25.5	27.0	25.8	27.3	27.5	25.8	27.4	26.1	27.6	27.8
3H	27.2	28.6	27.5	28.9	29.1	27.7	29.1	28.0	29.4	29.6
4H	27.8	29.2	28.2	29.5	29.8	28.5	29.9	28.8	30.1	30.4
6H	28.3	29.6	28.7	29.9	30.2	29.2	30.5	29.5	30.8	31.0
8H	28.5	29.7	28.8	30.0	30.3	29.4	30.7	29.8	31.0	31.3
12H	28.6	29.8	28.9	30.1	30.4	29.7	30.9	30.0	31.2	31.5
4H 2H	26.2	27.6	26.6	27.9	28.1	26.5	27.8	26.8	28.1	28.4
3H	28.1	29.3	28.5	29.6	29.9	28.5	29.7	28.9	30.0	30.4
4H	28.9	30.0	29.3	30.3	30.7	29.5	30.6	29.9	30.9	31.3
6H	29.5	30.5	29.9	30.9	31.2	30.3	31.3	30.7	31.6	32.0
8H	29.7	30.6	30.1	31.0	31.4	30.6	31.5	31.1	31.9	32.3
12H	29.8	30.7	30.3	31.1	31.5	30.9	31.8	31.4	32.2	32.6
8H 4H	29.3	30.2	29.7	30.6	31.0	29.8	30.7	30.2	31.1	31.5
6H	30.1	30.8	30.5	31.2	31.7	30.8	31.5	31.2	31.9	32.4
8H	30.4	31.0	30.8	31.5	31.9	31.2	31.9	31.7	32.3	32.8
12H	30.6	31.2	31.1	31.6	32.1	31.6	32.2	32.1	32.7	33.2
12H 4H	29.3	30.2	29.8	30.6	31.0	29.8	30.6	30.2	31.0	31.4
6H	30.2	30.8	30.6	31.3	31.7	30.8	31.5	31.3	31.9	32.4
8H	30.5	31.1	31.0	31.6	32.0	31.3	31.9	31.8	32.4	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	+ 0.2 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 136.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.9)
 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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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

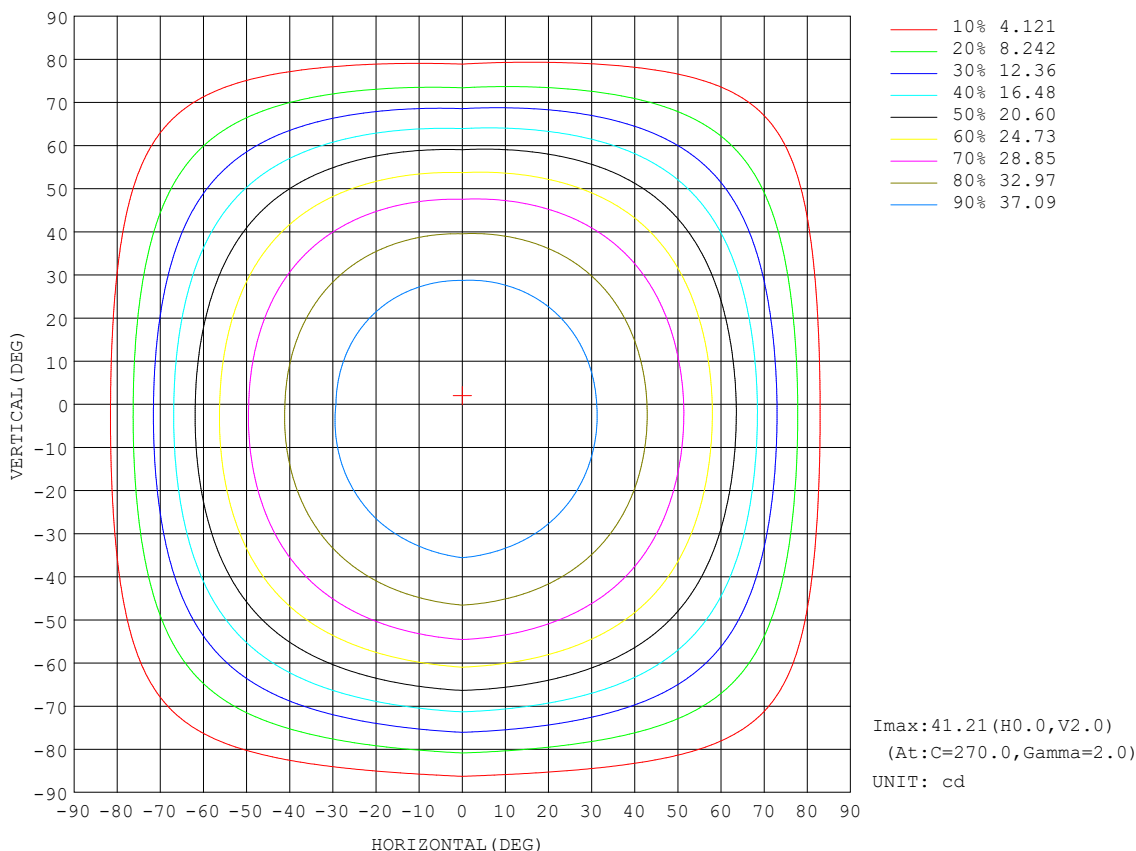
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	53	42	36	29
0.80	65	53	46	64	53	45	62	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	71
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	98	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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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

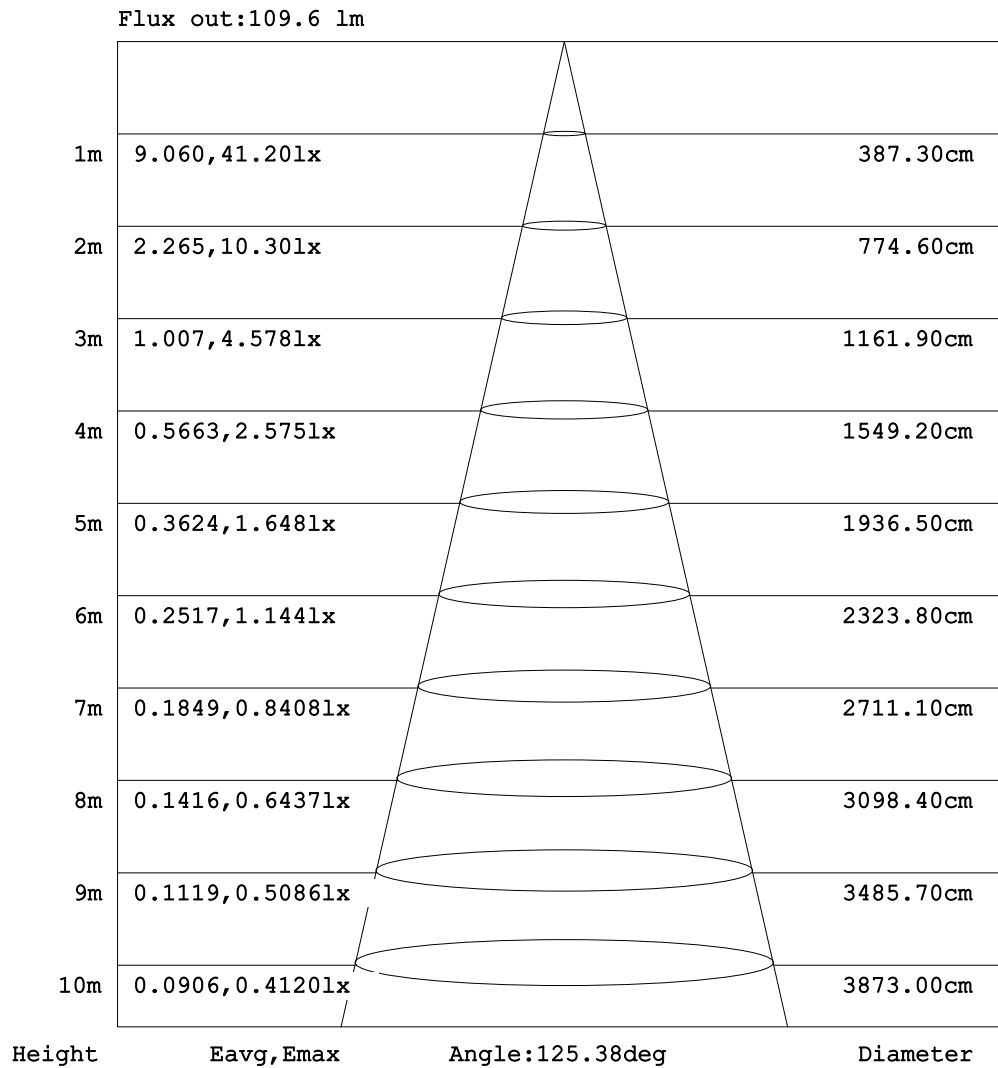


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2024-01-26

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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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



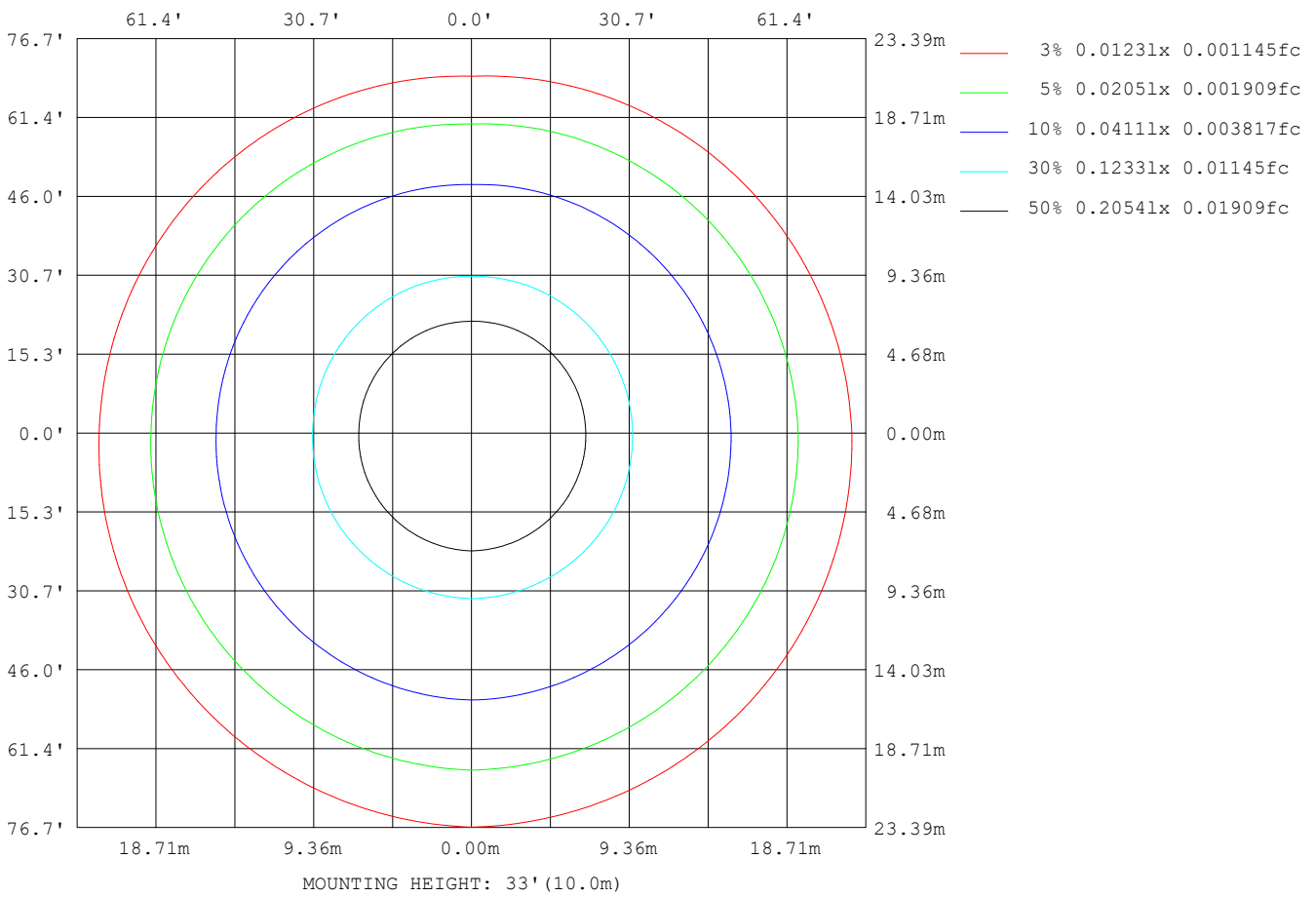
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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

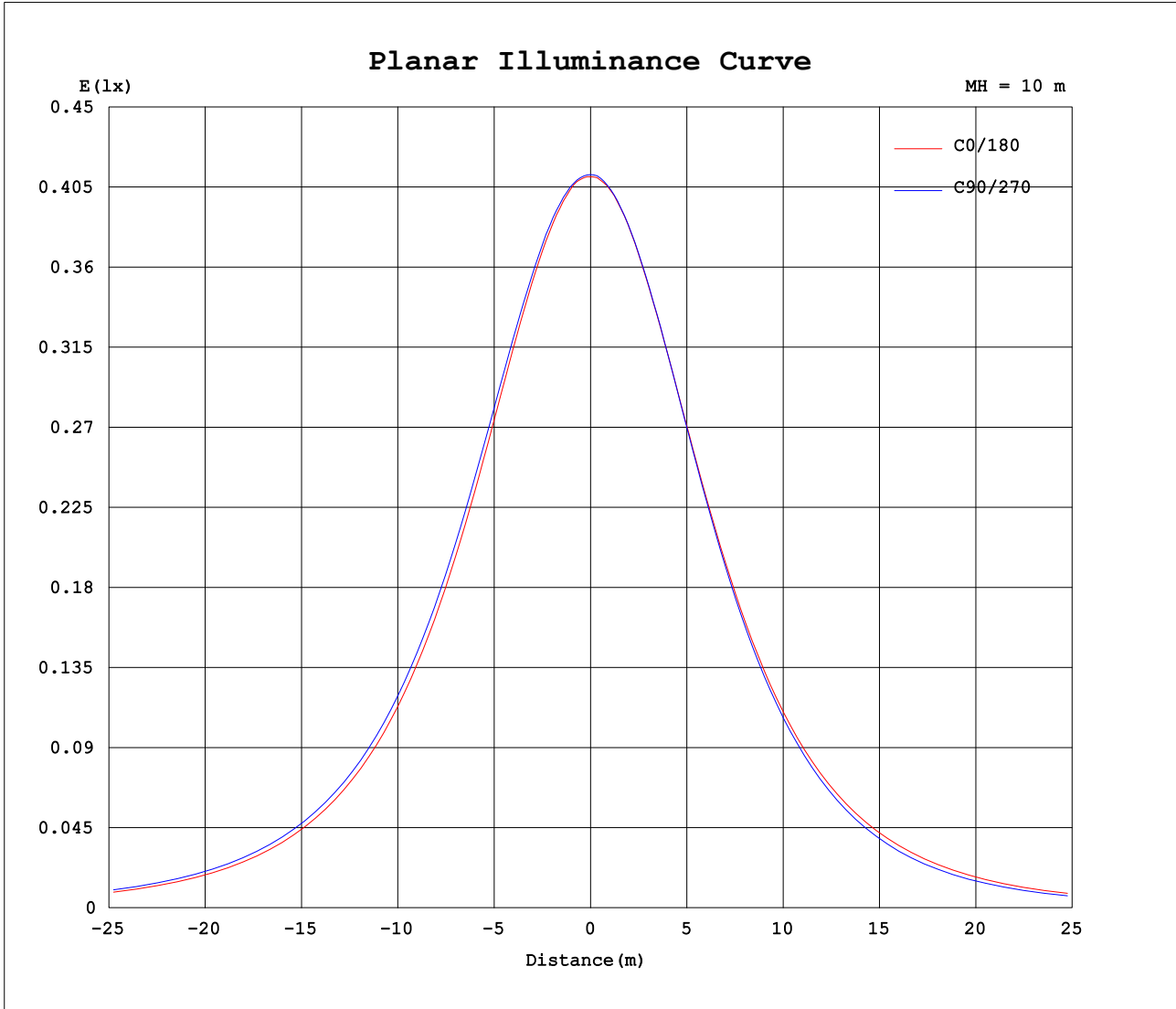
AvgL	cd/m2
L_0~180 (65) av	4434
L_0~180 (75) av	3843
L_0~180 (85) av	2728
L_90~270 (65) av	4401
L_90~270 (75) av	3907
L_90~270 (85) av	3530
L_45 (65) av	4403
L_45 (75) av	3868
L_45 (85) av	3203

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:0.4098A P:9.8364W PF:1.0000 Freq:0Hz Lamp Flux:136.529x1 lm		
NAME: BLUE	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	41.1	41.2	41.1	41.2															
5	41.1	41.2	41.0	41.1															
10	40.8	41.0	40.7	40.7															
15	40.3	40.7	40.1	40.1															
20	39.6	40.2	39.3	39.3															
25	38.7	39.5	38.2	38.1															
30	37.4	38.6	36.9	36.7															
35	35.9	37.3	35.3	34.9															
40	34.1	35.7	33.4	32.7															
45	32.0	33.7	31.2	30.2															
50	29.5	31.3	28.6	27.3															
55	26.7	28.6	25.6	23.8															
60	23.3	25.4	22.1	19.8															
65	19.4	21.7	18.1	15.5															
70	15.1	17.6	13.7	11.1															
75	10.6	13.3	9.33	6.94															
80	6.36	8.97	5.25	3.39															
85	2.75	5.04	2.00	1.11															
90	0.45	1.99	0.07	0.23															
95	0.06	0.32	0.07	0.09															
100	0.06	0.07	0.09	0.07															
105	0.06	0.09	0.10	0.07															
110	0.06	0.09	0.11	0.07															
115	0.06	0.10	0.13	0.07															
120	0.06	0.13	0.15	0.07															
125	0.06	0.14	0.16	0.07															
130	0.06	0.15	0.16	0.09															
135	0.09	0.16	0.17	0.11															
140	0.12	0.17	0.18	0.12															
145	0.13	0.18	0.19	0.14															
150	0.15	0.19	0.19	0.15															
155	0.17	0.19	0.19	0.16															
160	0.17	0.19	0.20	0.17															
165	0.17	0.19	0.20	0.18															
170	0.18	0.19	0.20	0.18															
175	0.18	0.19	0.20	0.19															
180	0.18	0.18	0.20	0.20															

C Range: 0 - 360DEG
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