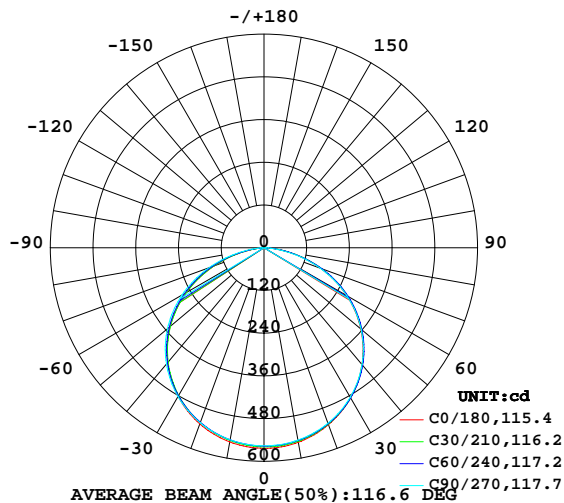


## LUMINAIRE PHOTOMETRIC TEST REPORT

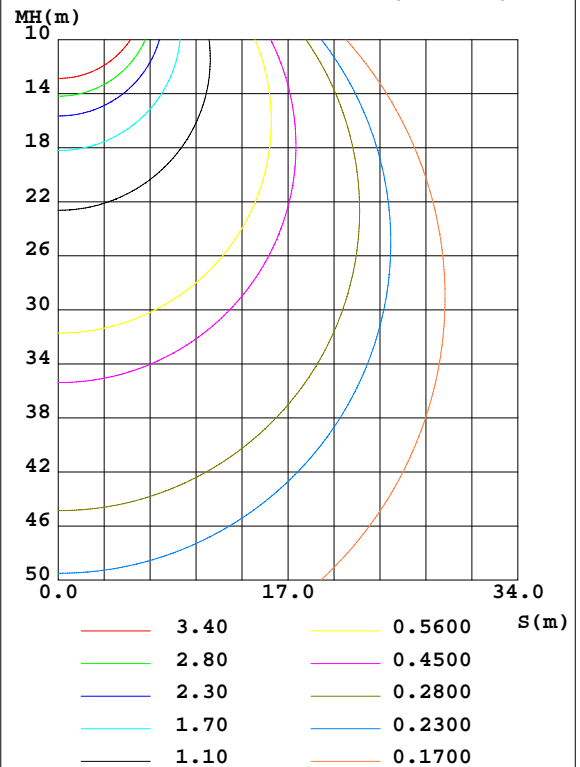
Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.53 lm/W			
MODEL	210B-24(WCP)-HR-ME	Imax(cd)	563.6	S/MH(C0/180)	1.27
NOMINAL POWER(W)	12.28	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	DC 22	TOTAL FLUX(lm)	1652.3	$\eta$ UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	1652.32	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	22	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

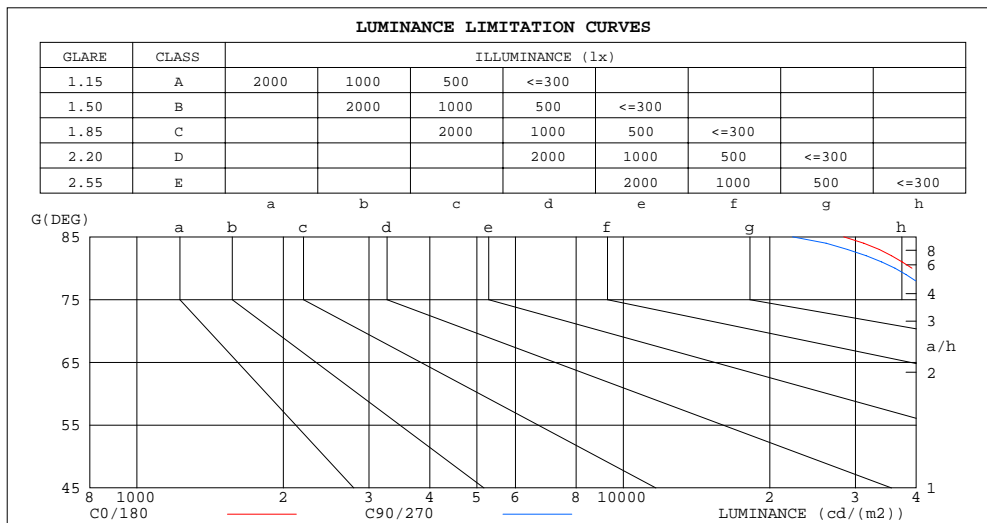
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	554.9	551.2	548.6	550.6	554.0	548.4	548.0	552.0	0- 10	52.98	52.98	3.21,3.21
20	529.0	527.5	524.7	524.6	526.7	522.0	523.5	527.5	10- 20	152.6	205.6	12.4,12.4
30	486.6	487.5	484.6	481.8	482.3	479.0	482.9	486.7	20- 30	233.7	439.2	26.6,26.6
40	428.4	431.6	428.4	422.5	421.1	419.6	426.5	429.7	30- 40	285.8	725.1	43.9,43.9
50	355.0	360.0	356.1	347.3	343.9	343.9	354.0	356.3	40- 50	301.4	1026	62.1,62.1
60	267.9	273.2	268.4	256.8	252.3	253.2	266.3	269.1	50- 60	276.2	1303	78.8,78.8
70	169.4	174.4	167.5	153.5	149.3	150.7	164.7	169.5	60- 70	210.9	1514	91.6,91.6
80	68.05	71.73	62.84	50.74	47.86	48.82	60.13	64.79	70- 80	115.2	1629	98.6,98.6
90	0.0217	0	0	0	0	0	0	0.0132	80- 90	23.53	1652	100,100
100	0	0	0	0	0	0	0	0	90-100	0.0002	1652	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1652	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1652	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1652	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1652	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1652	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1652	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1652	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1652	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	28386	22285
80	39191	36191
75	45604	44209
70	49524	48960
65	52006	51900
60	53577	53686
55	54589	54780
50	55231	55406
45	55645	55743

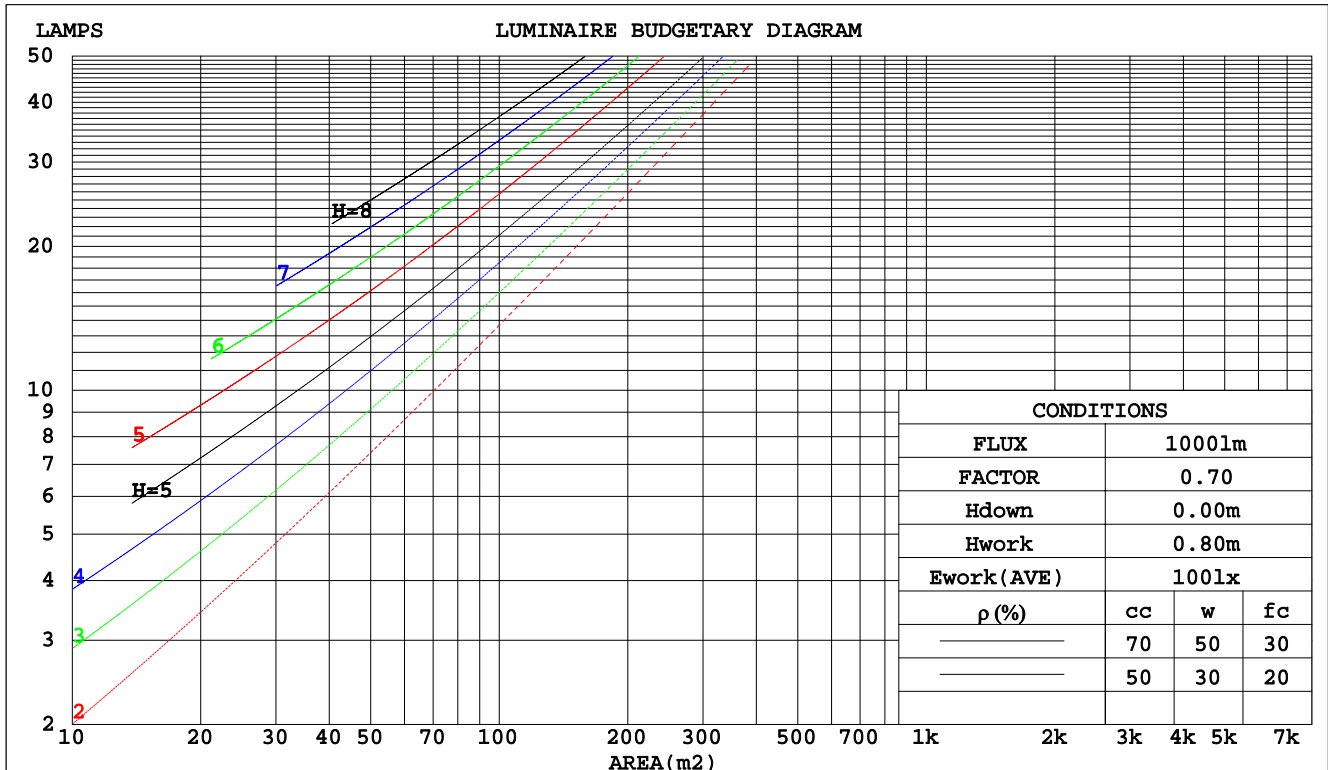
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

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	.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2018-01-17

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.307	.175	.055	.300	.171	.054	.287	.164	.053	.274	.158	.051	.263	.153	.049	
2.0	.291	.160	.049	.285	.157	.048	.273	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.183	.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	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm										
NAME: LED Strip					TYPE:Indoor lighting			WEIGHT:		
SPEC.:2835 210LED					DIM.: 1000*10*1MM			SERIAL No.:20180117004		
MFR.: EVERFINE					SUR.:1000*10mm			Shielding Angle:		
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	25.2	26.8	25.5	27.0	27.2	25.3	26.8	25.5	27.0	27.2
3H	26.8	28.2	27.1	28.5	28.7	26.8	28.3	27.1	28.5	28.7
4H	27.4	28.8	27.8	29.0	29.3	27.4	28.8	27.8	29.0	29.3
6H	27.9	29.1	28.2	29.4	29.7	27.8	29.1	28.2	29.4	29.6
8H	28.0	29.2	28.3	29.5	29.8	27.9	29.1	28.2	29.4	29.7
12H	28.0	29.2	28.4	29.5	29.8	27.9	29.1	28.3	29.4	29.7
4H 2H	25.9	27.2	26.2	27.5	27.7	25.9	27.3	26.2	27.5	27.8
3H	27.7	28.8	28.0	29.1	29.4	27.7	28.9	28.0	29.2	29.5
4H	28.4	29.5	28.8	29.8	30.1	28.4	29.5	28.8	29.8	30.1
6H	28.9	29.9	29.3	30.3	30.6	28.9	29.9	29.3	30.2	30.6
8H	29.1	30.0	29.5	30.4	30.7	29.0	29.9	29.4	30.3	30.7
12H	29.2	30.0	29.6	30.4	30.8	29.1	29.9	29.5	30.3	30.7
8H 4H	28.7	29.6	29.1	29.9	30.3	28.7	29.6	29.1	29.9	30.3
6H	29.4	30.1	29.8	30.5	30.9	29.3	30.1	29.8	30.5	30.9
8H	29.6	30.3	30.1	30.7	31.1	29.5	30.2	30.0	30.6	31.1
12H	29.8	30.3	30.2	30.8	31.2	29.6	30.2	30.1	30.7	31.1
12H 4H	28.7	29.5	29.1	29.9	30.3	28.7	29.5	29.1	29.9	30.3
6H	29.4	30.1	29.9	30.5	31.0	29.4	30.0	29.8	30.5	30.9
8H	29.7	30.3	30.2	30.7	31.2	29.6	30.2	30.1	30.6	31.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 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, 1652 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 1.7$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

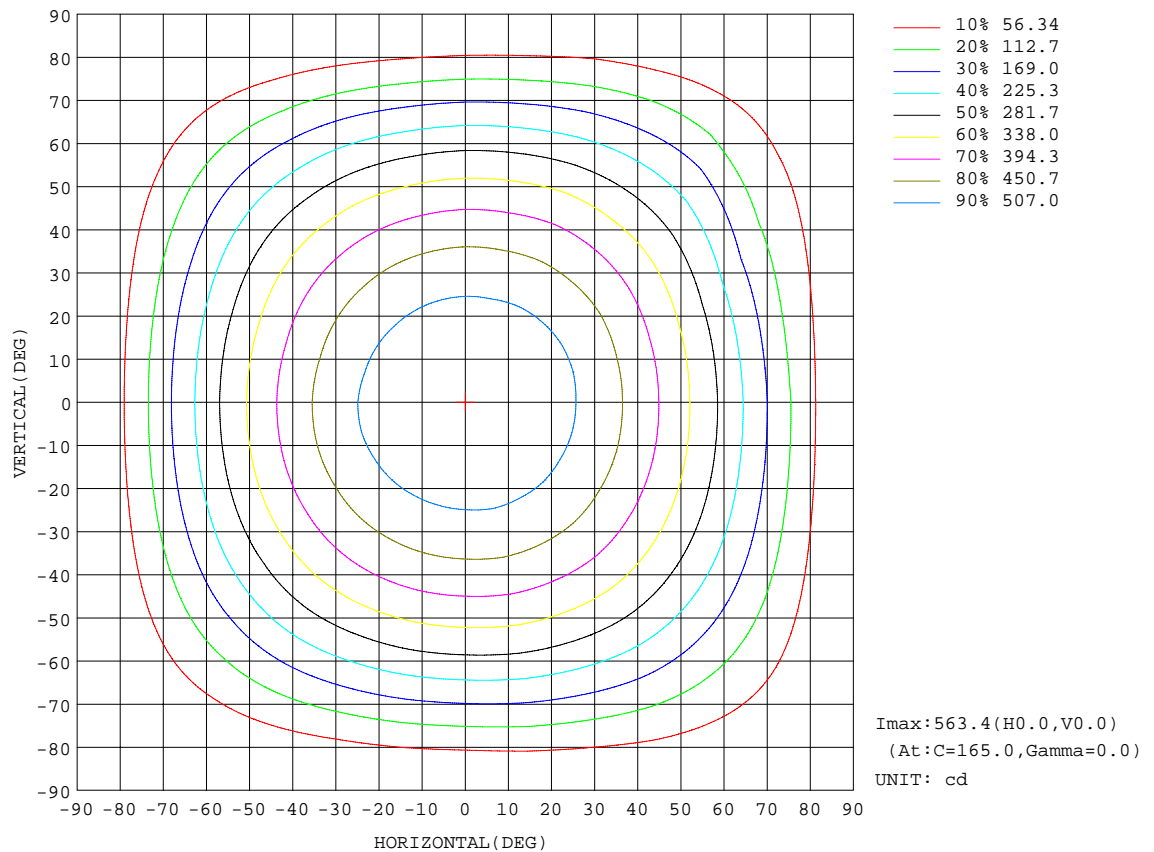
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:



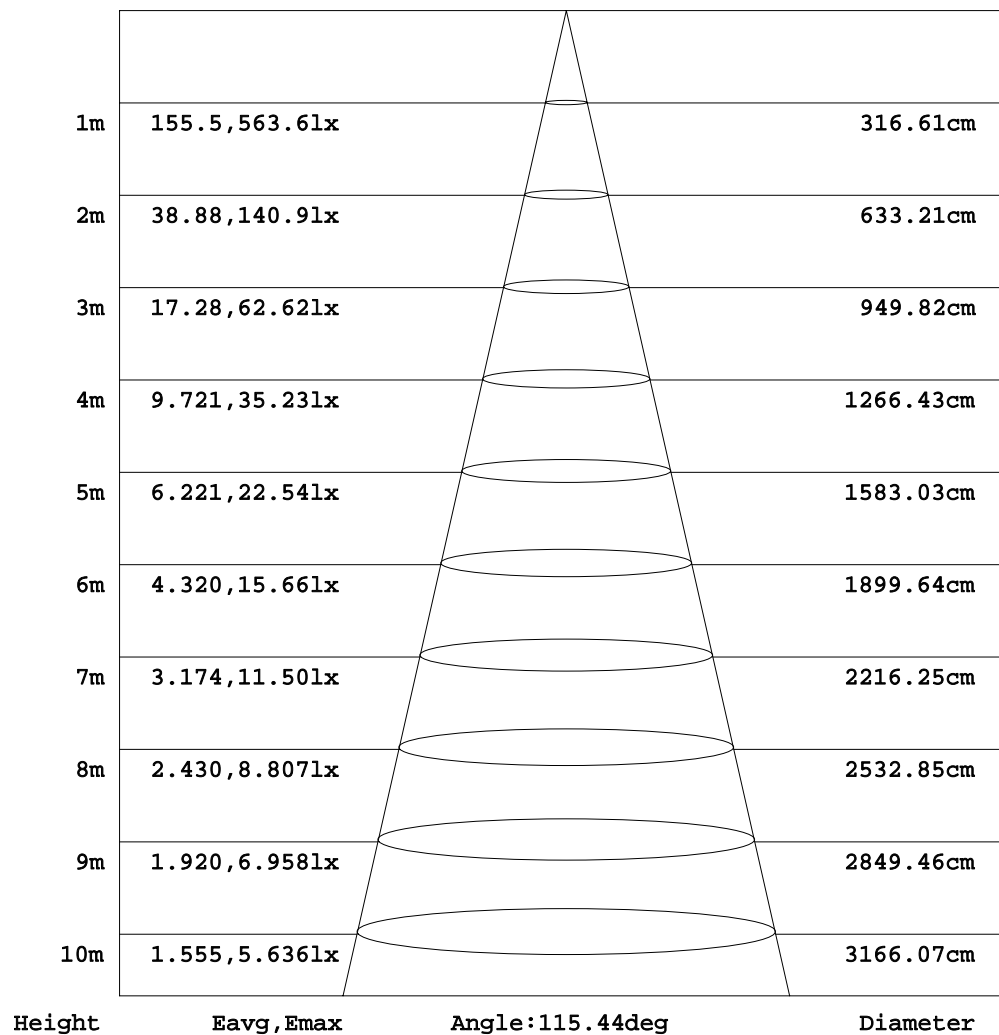
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

Flux out:1251 lm



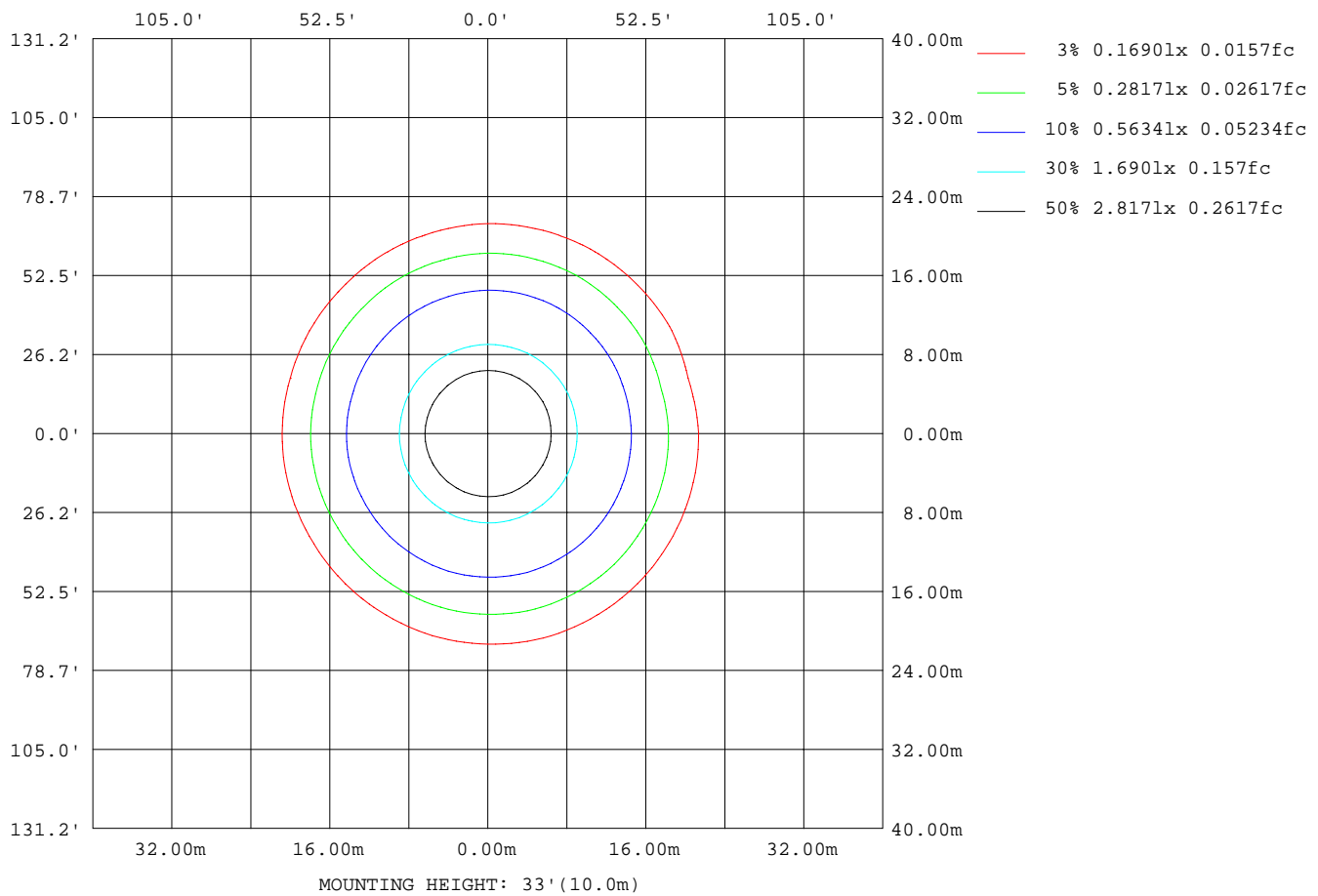
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2018-01-17

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 4.950m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

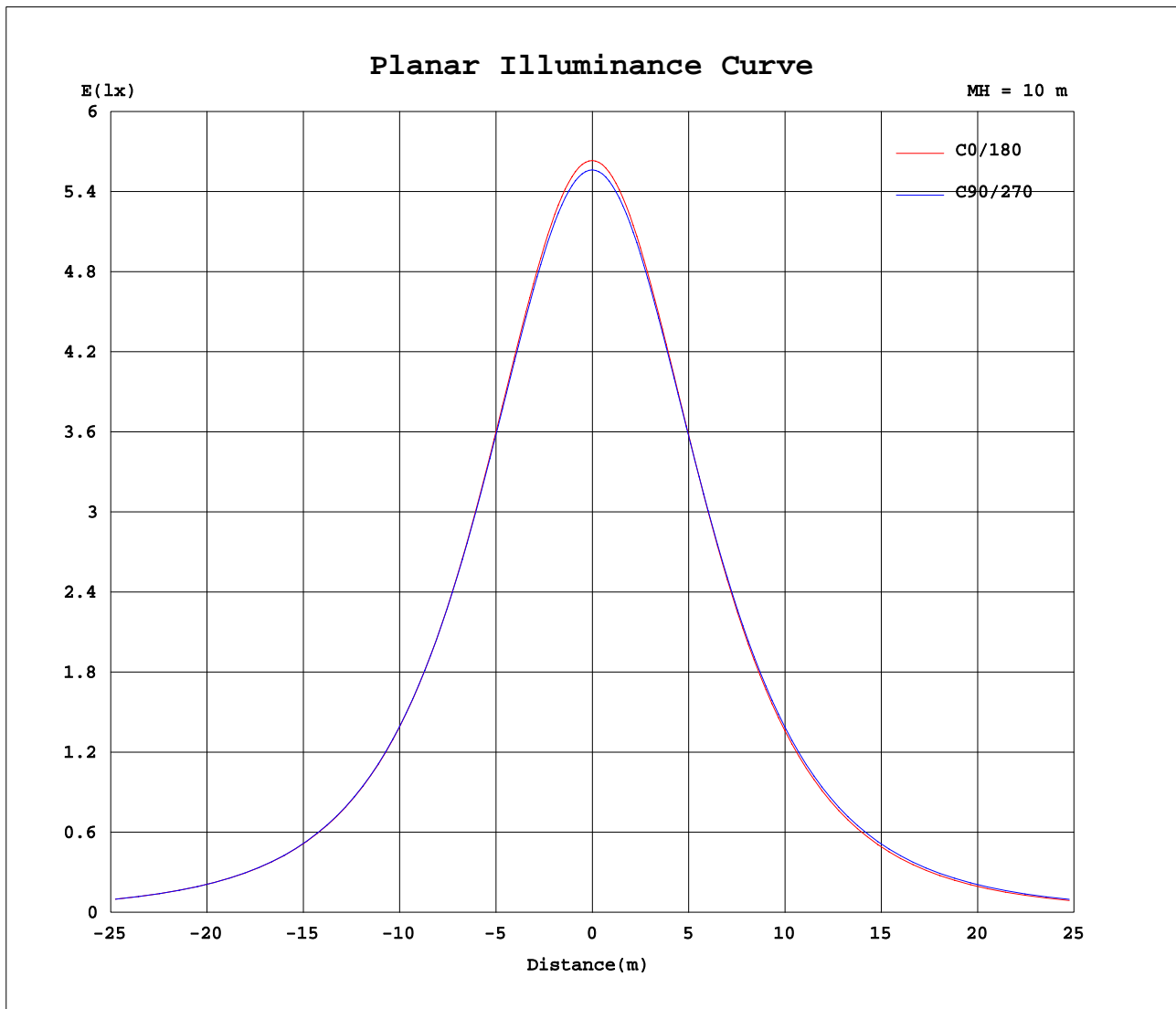
AvgL	cd/m2
L_0~180(65)av	49870
L_0~180(75)av	41535
L_0~180(85)av	19888
L_90~270(65)av	51575
L_90~270(75)av	43680
L_90~270(85)av	21226
L_45(65)av	50610
L_45(75)av	42445
L_45(85)av	20395

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-01-17

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2018-01-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 4.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	563	561	560	558	557	557	556	556	558	560	561	564	563	561	560	558	557	557	556
5	561	560	558	557	555	555	554	554	556	557	559	561	561	558	557	555	554	555	554
10	555	553	552	551	550	550	549	548	549	551	552	554	554	551	550	548	548	548	548
15	544	543	542	541	540	540	539	538	539	540	541	543	543	540	539	537	537	537	538
20	529	528	528	527	526	526	525	524	524	525	525	527	527	524	523	522	522	523	523
25	510	510	509	509	509	509	507	506	505	505	505	507	507	504	503	503	503	504	505
30	487	487	487	488	487	487	485	483	482	482	481	483	482	479	479	479	480	481	483
35	459	460	460	462	461	461	458	457	455	454	453	454	454	451	451	451	453	455	457
40	428	430	430	432	431	432	428	427	424	422	421	422	421	418	419	420	422	424	426
45	393	395	396	398	397	398	394	392	389	387	384	385	384	382	383	384	386	389	392
50	355	357	358	360	360	360	356	354	350	347	344	344	344	341	343	344	347	350	354
55	313	315	316	318	318	318	314	311	307	304	300	300	300	297	299	300	304	307	312
60	268	270	271	273	273	273	268	265	260	257	253	252	252	250	252	253	258	261	266
65	220	222	223	225	225	224	219	216	210	206	202	202	202	200	202	203	208	212	217
70	169	172	173	174	173	172	167	164	158	153	149	149	149	147	149	151	156	159	165
75	118	121	121	123	121	120	114	111	105	101	96.4	96.5	97.0	95.0	97.0	98.2	103	106	112
80	68.1	70.7	70.6	71.7	69.2	68.2	62.8	59.9	53.8	50.7	47.2	47.5	47.9	46.4	47.9	48.8	52.8	55.8	60.1
85	24.7	26.8	27.1	27.2	25.2	23.5	19.4	17.7	13.2	11.5	9.52	9.99	9.93	8.95	10.1	10.5	12.8	14.8	17.6
90	0.02	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:22.62V I:0.5431A P:12.28W PF:0.9999 Freq:0Hz Lamp Flux:1652.32x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 210LED	DIM.: 1000*10*1MM	SERIAL No.:20180117004
MFR.: EVERFINE	SUR.:1000*10mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	556	558	560	561	564														
5	554	556	558	560	562														
10	548	550	552	554	555														
15	538	540	542	543	545														
20	524	526	528	529	530														
25	506	508	509	511	511														
30	484	486	487	488	488														
35	457	460	460	461	459														
40	427	430	430	430	428														
45	393	396	395	395	393														
50	355	359	356	357	354														
55	314	316	315	314	311														
60	268	270	269	269	262														
65	219	221	221	221	209														
70	167	170	170	170	152														
75	114	118	118	114	86.9														
80	62.9	66.4	64.8	60.8	60.8														
85	19.0	18.3	21.9	18.9	24.4														
90	0.00	0.00	0.01	0.00	0.02														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018-01-17

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks: