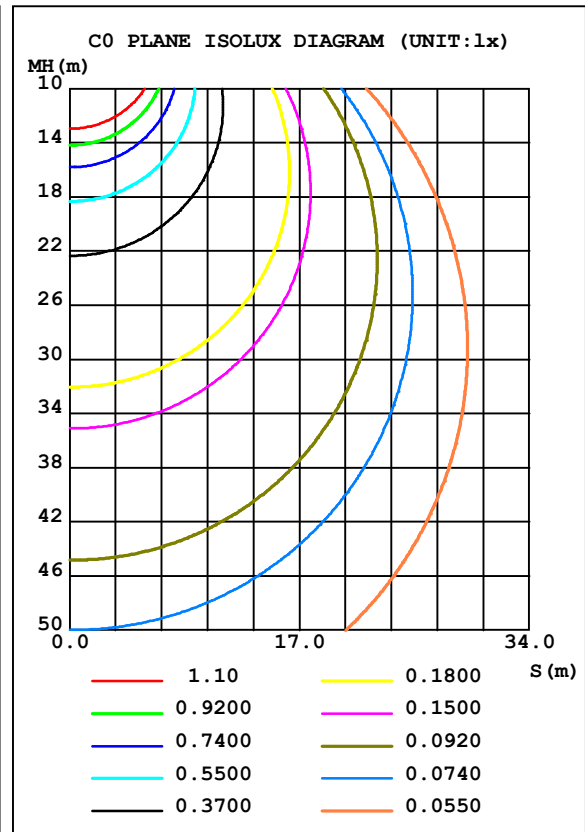
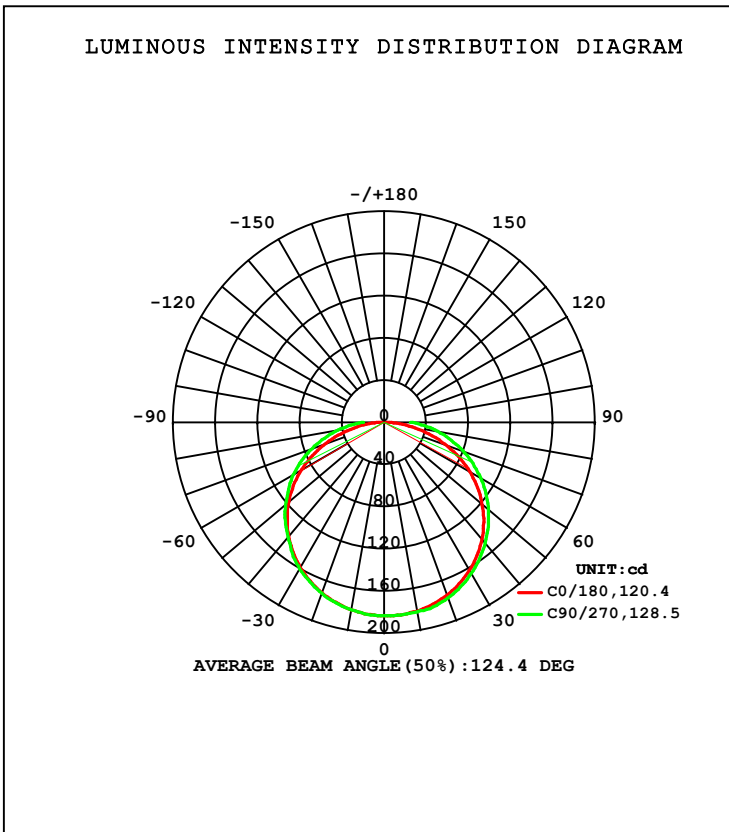


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CIL2835-IP65-60-6.1W	Imax (cd)	183.6	S/MH (C0/180)	1.29
NOMINAL POWER (W)	6.1	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	607.98	η UP, DN (C0-180)	0.0, 51.2
NOMINAL FLUX (lm)	607.983	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 9.690m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	181.6	182.2	180.4	180.5					0- 10	17.40	17.40	2.86,2.86
20	174.5	177.3	172.1	172.7					10- 20	50.41	67.82	11.2,11.2
30	162.1	165.6	159.0	160.3					20- 30	77.74	145.6	23.9,23.9
40	144.6	149.5	140.9	142.0					30- 40	96.13	241.7	39.8,39.8
50	121.8	129.3	118.2	122.0					40- 50	103.5	345.1	56.8,56.8
60	94.04	105.8	90.79	99.47					50- 60	98.88	444.0	73,73
70	61.72	79.68	58.82	72.73					60- 70	82.29	526.3	86.6,86.6
80	27.27	52.19	26.06	44.58					70- 80	55.71	582.0	95.7,95.7
90	1.718	25.13	1.750	19.62					80- 90	25.96	608.0	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 293.22 lm

%lum = 48.2%
 %lamp = 48.2%

Conical surface Flux(120deg): 444.02 lm

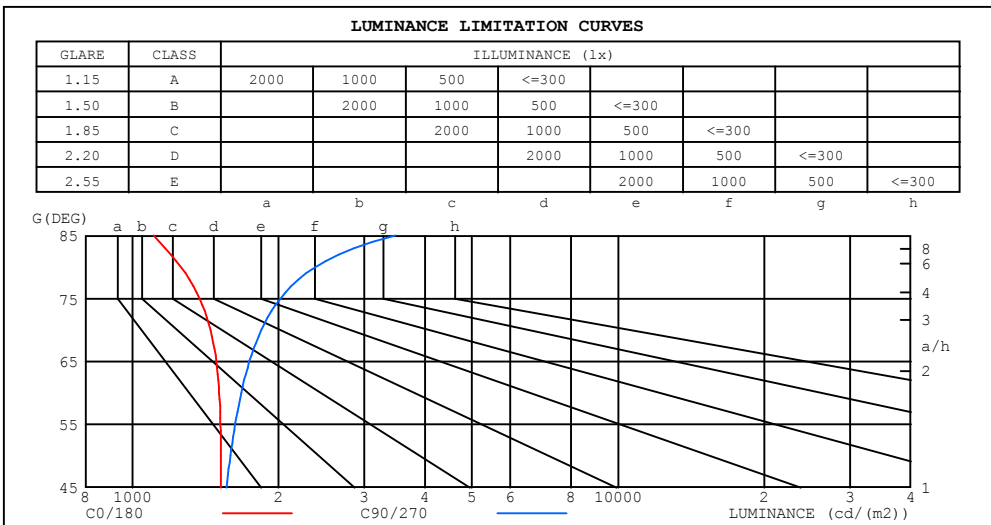
%lum = 73.0%
 %lamp = 73.0%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1105	3484
80	1259	2375
75	1376	2014
70	1447	1841
65	1488	1740
60	1508	1673
55	1518	1626
50	1520	1590
45	1518	1563

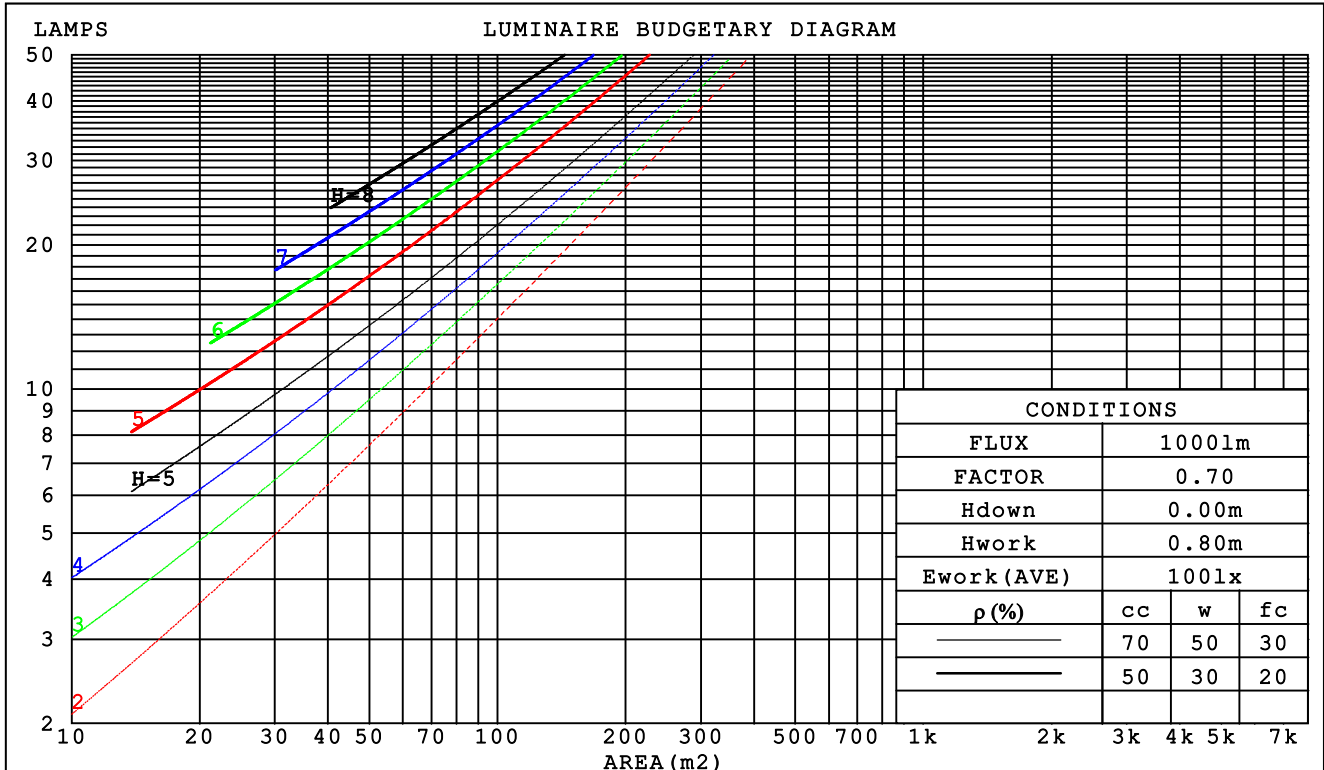
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	1.02	.97	.93	.99	.95	.91	.95	.91	.88	.91	.88	.85	.87	.85	.83	.81
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.70	.76	.72	.68	.66
3.0	.76	.68	.61	.75	.67	.60	.72	.65	.59	.69	.63	.58	.66	.61	.57	.54
4.0	.67	.58	.51	.66	.57	.50	.63	.56	.50	.61	.54	.49	.59	.53	.48	.46
5.0	.60	.50	.43	.59	.50	.43	.57	.49	.43	.54	.48	.42	.53	.46	.42	.39
6.0	.54	.44	.38	.53	.44	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.34
7.0	.49	.39	.33	.48	.39	.33	.46	.38	.33	.45	.38	.32	.43	.37	.32	.30
8.0	.44	.35	.29	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.27
9.0	.41	.32	.26	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.24
10.0	.37	.29	.24	.37	.29	.24	.36	.29	.24	.35	.28	.23	.34	.28	.23	.22



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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	.350	.199	.063	.343	.196	.062	.329	.189	.060	.317	.183	.059	.306	.177	.057	
2.0	.318	.174	.053	.312	.172	.053	.300	.167	.052	.289	.162	.051	.279	.158	.050	
3.0	.289	.154	.046	.283	.152	.046	.273	.148	.045	.263	.144	.044	.254	.141	.044	
4.0	.264	.137	.040	.259	.135	.040	.249	.132	.039	.240	.129	.039	.232	.126	.038	
5.0	.242	.123	.036	.237	.122	.035	.229	.119	.035	.221	.117	.035	.214	.114	.034	
6.0	.223	.112	.032	.219	.110	.032	.211	.108	.031	.204	.106	.031	.198	.104	.031	
7.0	.206	.102	.029	.203	.101	.029	.196	.099	.029	.190	.097	.028	.184	.096	.028	
8.0	.192	.094	.026	.189	.093	.026	.183	.091	.026	.177	.090	.026	.172	.088	.026	
9.0	.179	.087	.024	.176	.086	.024	.171	.085	.024	.166	.083	.024	.161	.082	.024	
10.0	.168	.081	.022	.165	.080	.022	.161	.079	.022	.156	.078	.022	.152	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.059	.046	.034	.019	.015	.011	
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.056	.138	.088	.049	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.153	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.005	
6.0	.145	.083	.038	.125	.072	.033	.086	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.138	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.057	.021	.075	.040	.015	.044	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm										
NAME: Flexible LED strip					TYPE:Waterproof IP65			WEIGHT:		
SPEC.:SMD2835,60leds/m,4000K					DIM.:			SERIAL No.:		
MFR.:					SUR.:			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	16.1	17.7	16.4	18.0	18.2	16.5	18.1	16.8	18.3	18.5
3H	17.9	19.4	18.2	19.6	19.8	18.6	20.0	18.9	20.3	20.5
4H	18.6	20.0	18.9	20.3	20.5	19.6	21.0	19.9	21.3	21.5
6H	19.1	20.4	19.4	20.7	21.0	20.6	22.0	21.0	22.2	22.5
8H	19.3	20.6	19.6	20.9	21.2	21.1	22.4	21.5	22.7	23.0
12H	19.4	20.6	19.7	20.9	21.2	21.7	22.9	22.0	23.2	23.5
4H 2H	16.9	18.3	17.2	18.6	18.8	17.2	18.6	17.5	18.8	19.1
3H	18.8	20.1	19.2	20.4	20.7	19.4	20.7	19.8	21.0	21.3
4H	19.7	20.9	20.1	21.2	21.5	20.6	21.8	21.0	22.1	22.4
6H	20.4	21.4	20.8	21.8	22.1	21.8	22.8	22.2	23.2	23.5
8H	20.6	21.6	21.1	22.0	22.4	22.4	23.4	22.8	23.7	24.1
12H	20.8	21.7	21.2	22.1	22.5	23.1	23.9	23.5	24.3	24.7
8H 4H	20.2	21.1	20.6	21.5	21.9	21.0	21.9	21.4	22.3	22.7
6H	21.1	21.9	21.5	22.3	22.7	22.4	23.2	22.8	23.6	24.0
8H	21.5	22.2	21.9	22.6	23.1	23.1	23.8	23.6	24.3	24.7
12H	21.7	22.4	22.2	22.8	23.3	24.0	24.6	24.4	25.0	25.5
12H 4H	20.3	21.2	20.7	21.5	22.0	21.0	21.9	21.4	22.3	22.7
6H	21.3	22.0	21.7	22.4	22.9	22.5	23.2	22.9	23.6	24.1
8H	21.7	22.3	22.2	22.8	23.3	23.3	23.9	23.8	24.4	24.8
Variations with the observer position at spacings:										
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					+ 0.2 / - 0.3				

CIE Pub.117, 608.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

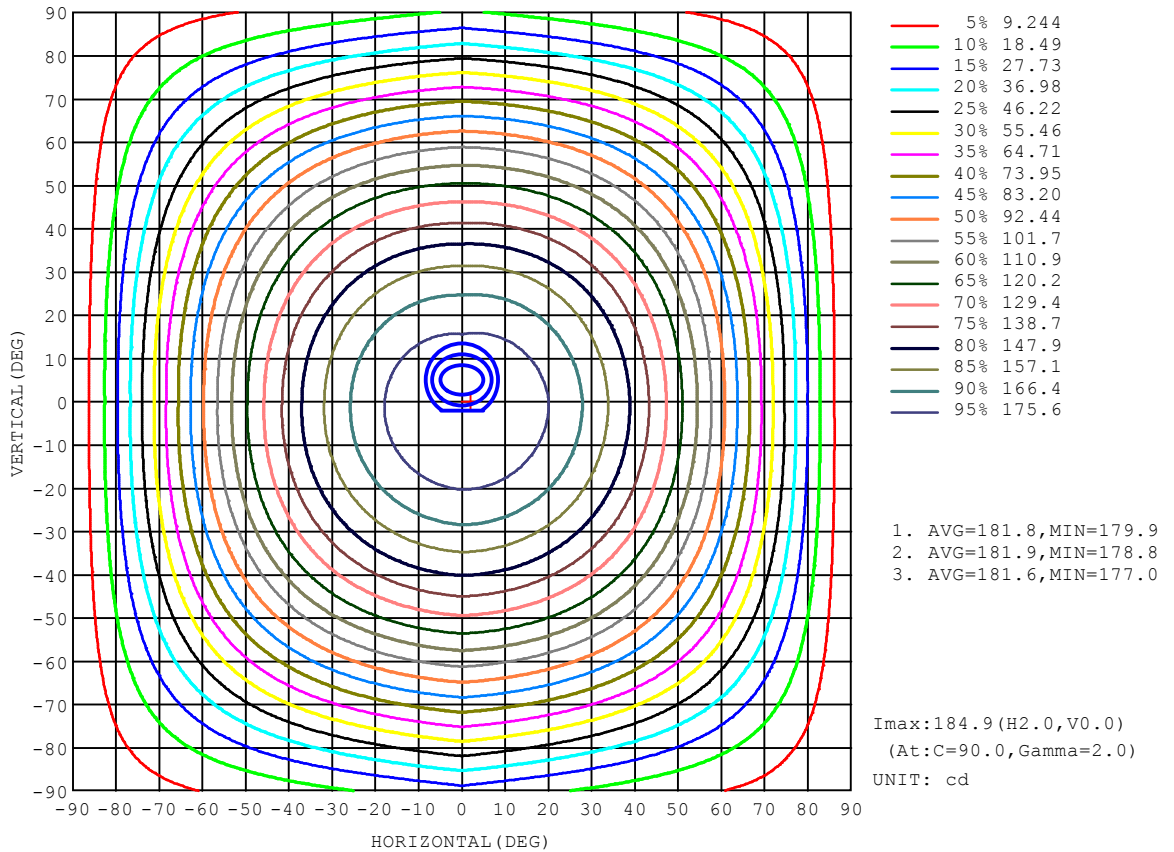
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	35	53	42	35	29
0.80	65	52	45	64	52	45	62	51	44	37
1.00	73	61	53	72	61	53	69	62	53	45
1.25	80	69	61	79	68	61	76	67	60	52
1.50	85	75	67	84	74	66	80	72	65	57
2.00	92	83	76	90	82	75	87	79	74	65
2.50	97	88	81	94	87	80	90	84	79	70
3.00	100	92	86	98	91	85	94	88	83	74
4.00	104	98	93	102	96	91	98	93	89	79
5.00	107	102	97	105	100	95	100	96	92	83
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
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

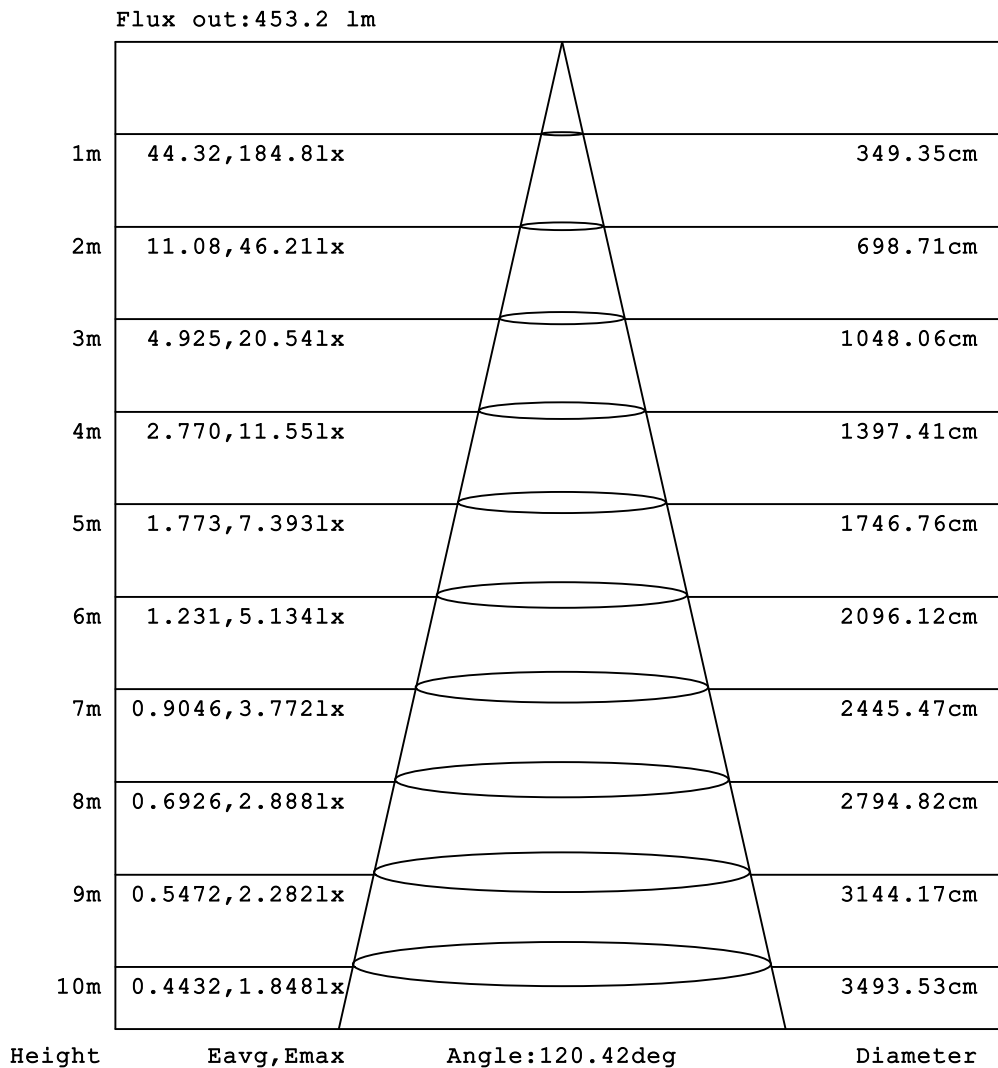


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

AAI Figure

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



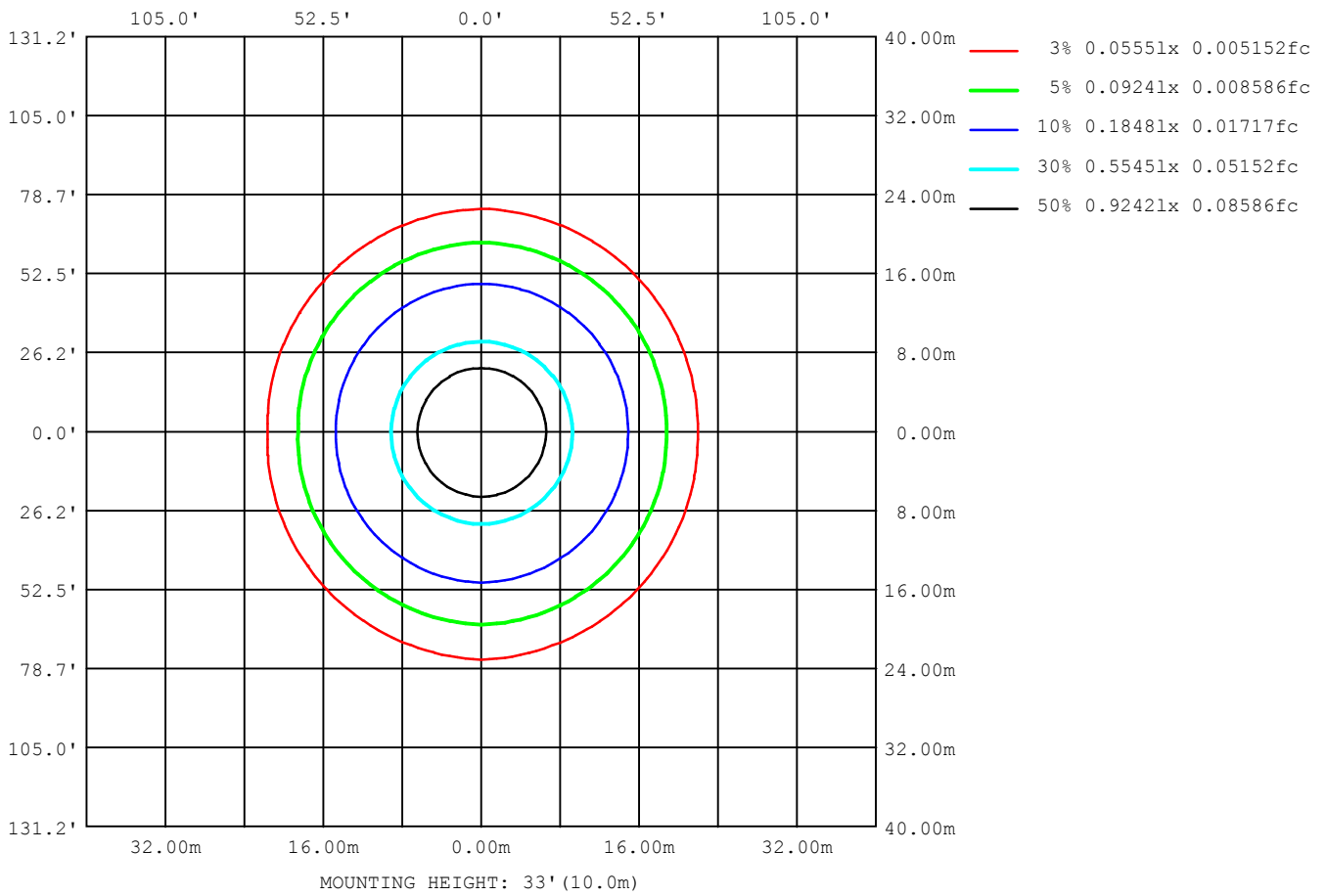
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

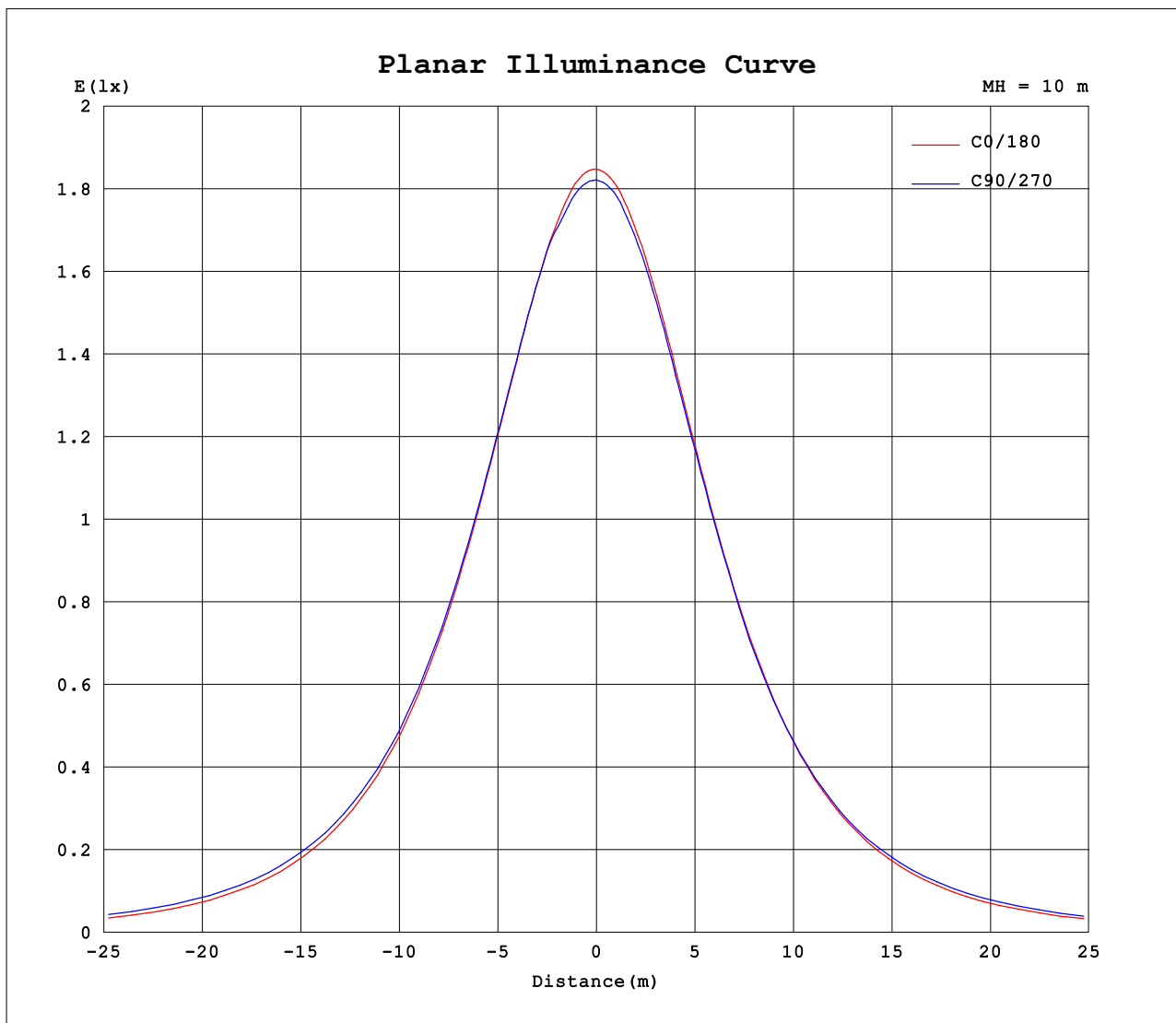
AvgL	cd/m2
L_0~180 (65) av	1447
L_0~180 (75) av	1332
L_0~180 (85) av	1091
L_90~270 (65) av	1691
L_90~270 (75) av	1919
L_90~270 (85) av	3189
L_45 (65) av	1597
L_45 (75) av	1695
L_45 (85) av	2395

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 9.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.2580A P:6.191W PF:1.000 Freq:0Hz Lamp Flux:607.983x1 lm		
NAME: Flexible LED strip	TYPE:Waterproof IP65	WEIGHT:
SPEC.:SMD2835,60leds/m,4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

γ (DEG) \ C (DEG)	0	90	180	270															
0	184	184	184	184															
5	183	183	183	183															
10	182	182	180	180															
15	179	181	177	177															
20	174	177	172	173															
25	169	172	166	167															
30	162	166	159	160															
35	154	158	151	152															
40	145	149	141	142															
45	134	140	130	133															
50	122	129	118	122															
55	109	118	105	111															
60	94.0	106	90.8	99.5															
65	78.4	93.0	75.2	86.5															
70	61.7	79.7	58.8	72.7															
75	44.4	66.0	42.2	58.8															
80	27.3	52.2	26.1	44.6															
85	12.0	38.4	11.9	31.4															
90	1.72	25.1	1.75	19.6															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-06-22

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.690m [K=1.0000]
 Remarks: