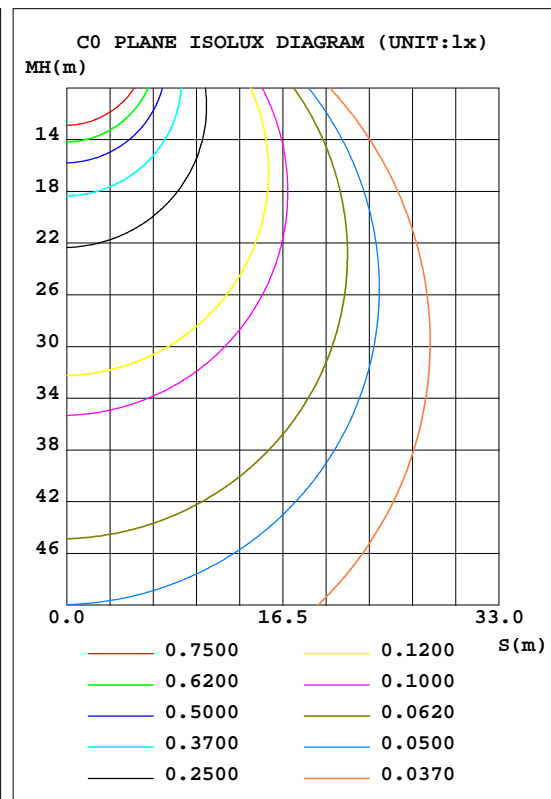
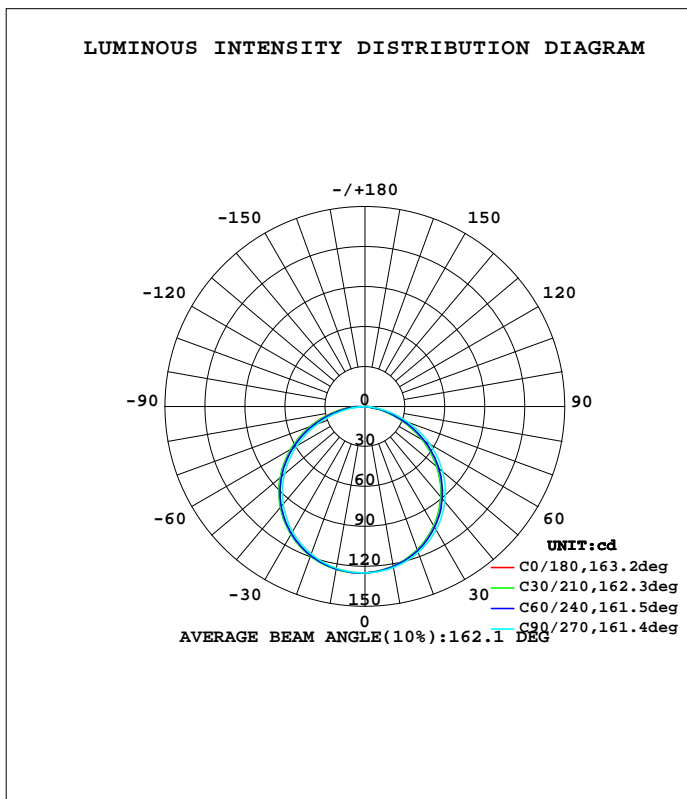


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.47 lm/W			
MODEL	3528/LED	I _{max} (cd)	125.3	S/MH(C0/180)	1.24
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	368.09	h UP, DN(C0-180)	0.0, 49.1
NOMINAL FLUX(lm)	368.085	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 50.9
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	12.2	h down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	121.6	121.9	122.7	123.8	124.0	124.0	123.3	122.2	0- 10	11.83	11.83	3.21,3.21
20	114.5	114.9	116.6	118.8	119.4	119.3	117.8	115.6	10- 20	34.04	45.86	12.5,12.5
30	103.5	104.0	106.8	110.0	110.8	110.7	108.6	105.2	20- 30	52.00	97.86	26.6,26.6
40	88.80	89.47	93.30	97.48	98.60	98.37	95.44	91.04	30- 40	63.33	161.2	43.8,43.8
50	70.58	71.43	76.26	81.44	82.91	82.52	78.90	73.42	40- 50	66.35	227.5	61.8,61.8
60	49.65	50.48	56.19	62.36	64.28	63.59	59.20	52.78	50- 60	60.37	287.9	78.2,78.2
70	27.44	28.07	34.02	41.10	43.38	42.27	37.07	30.39	60- 70	45.98	333.9	90.7,90.7
80	9.064	8.600	12.59	19.64	22.33	20.64	15.09	9.608	70- 80	26.07	360.0	97.8,97.8
90	1.127	0.4578	0	3.963	6.374	4.598	0.5192	0.4953	80- 90	8.117	368.1	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		

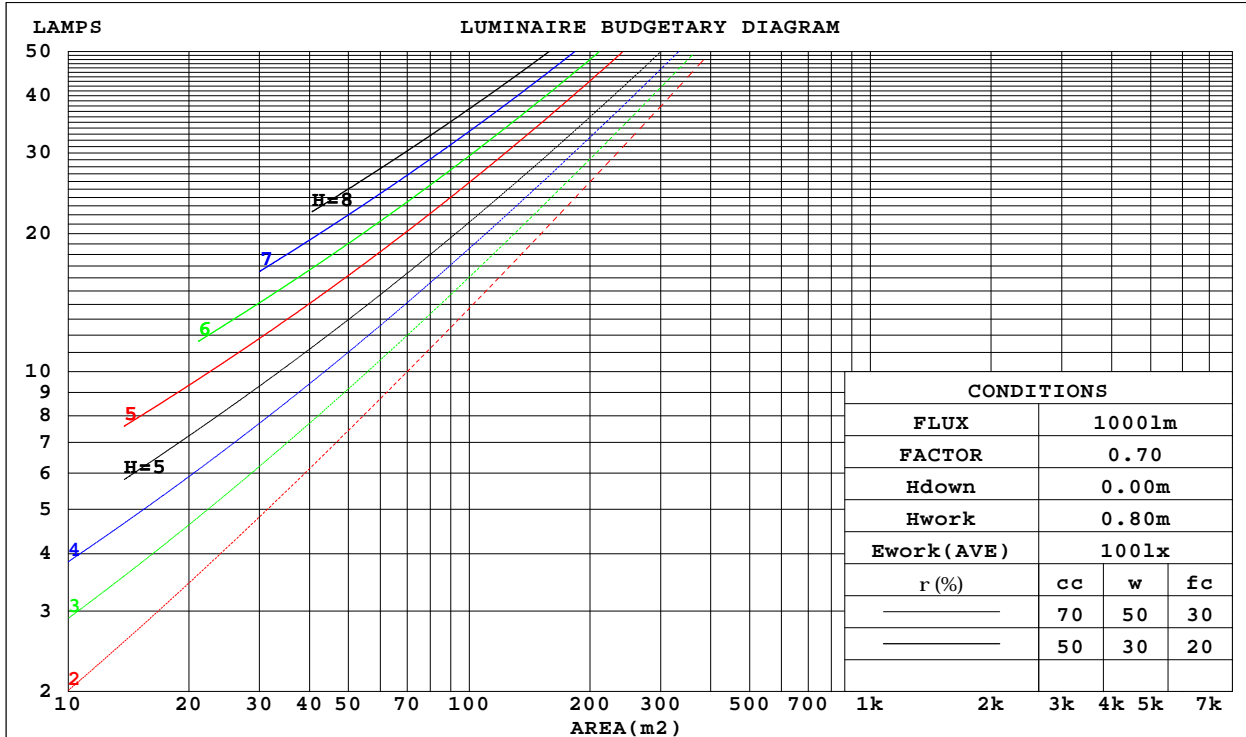
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	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	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.40	.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	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.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:mo fu mei
 Test Date:2013-08-07

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

WEC AND CCEC

NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.315	.179	.057	.308	.175	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046	
3.0	.272	.145	.043	.267	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041	
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.191	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.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	.050	.093	.061	.035	.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	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

Uncorrected UGR Table

NAME: LED-FLS24W-WW		TYPE:Strip					WEIGHT:0.1Kg`				
DIM.: 1000*8*2mm		SPEC.:4.8W					SERIAL No.:1				
		SUR.:120					PROTECTION 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	2H	21.4	23.0	21.7	23.2	23.4	21.9	23.4	22.1	23.6	23.8
	3H	22.6	24.1	22.9	24.3	24.5	23.3	24.7	23.6	25.0	25.2
	4H	23.0	24.4	23.4	24.6	24.9	23.8	25.2	24.1	25.4	25.7
	6H	23.2	24.5	23.6	24.8	25.1	24.2	25.4	24.5	25.7	26.0
	8H	23.3	24.5	23.6	24.8	25.1	24.2	25.5	24.6	25.7	26.0
	12H	23.3	24.5	23.7	24.8	25.1	24.3	25.4	24.6	25.7	26.0
4H	2H	22.0	23.3	22.3	23.6	23.8	22.3	23.7	22.6	23.9	24.2
	3H	23.3	24.5	23.7	24.8	25.1	23.9	25.1	24.3	25.4	25.7
	4H	23.8	24.9	24.2	25.2	25.6	24.5	25.6	24.9	25.9	26.3
	6H	24.1	25.1	24.5	25.4	25.8	24.9	25.9	25.3	26.3	26.6
	8H	24.2	25.1	24.6	25.5	25.9	25.1	25.9	25.5	26.3	26.7
	12H	24.2	25.1	24.7	25.5	25.9	25.1	25.9	25.5	26.3	26.7
8H	4H	24.0	24.9	24.4	25.3	25.6	24.6	25.5	25.0	25.9	26.3
	6H	24.4	25.1	24.8	25.5	26.0	25.1	25.9	25.6	26.3	26.7
	8H	24.5	25.2	25.0	25.6	26.0	25.3	26.0	25.8	26.4	26.8
	12H	24.6	25.2	25.1	25.6	26.1	25.4	26.0	25.9	26.4	26.9
12H	4H	24.0	24.8	24.4	25.2	25.6	24.6	25.4	25.0	25.8	26.2
	6H	24.4	25.1	24.9	25.5	25.9	25.1	25.8	25.6	26.2	26.7
	8H	24.5	25.1	25.0	25.6	26.0	25.3	25.9	25.8	26.3	26.8
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 368.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.5)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

UTILIZATION FACTORS TABLE

NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

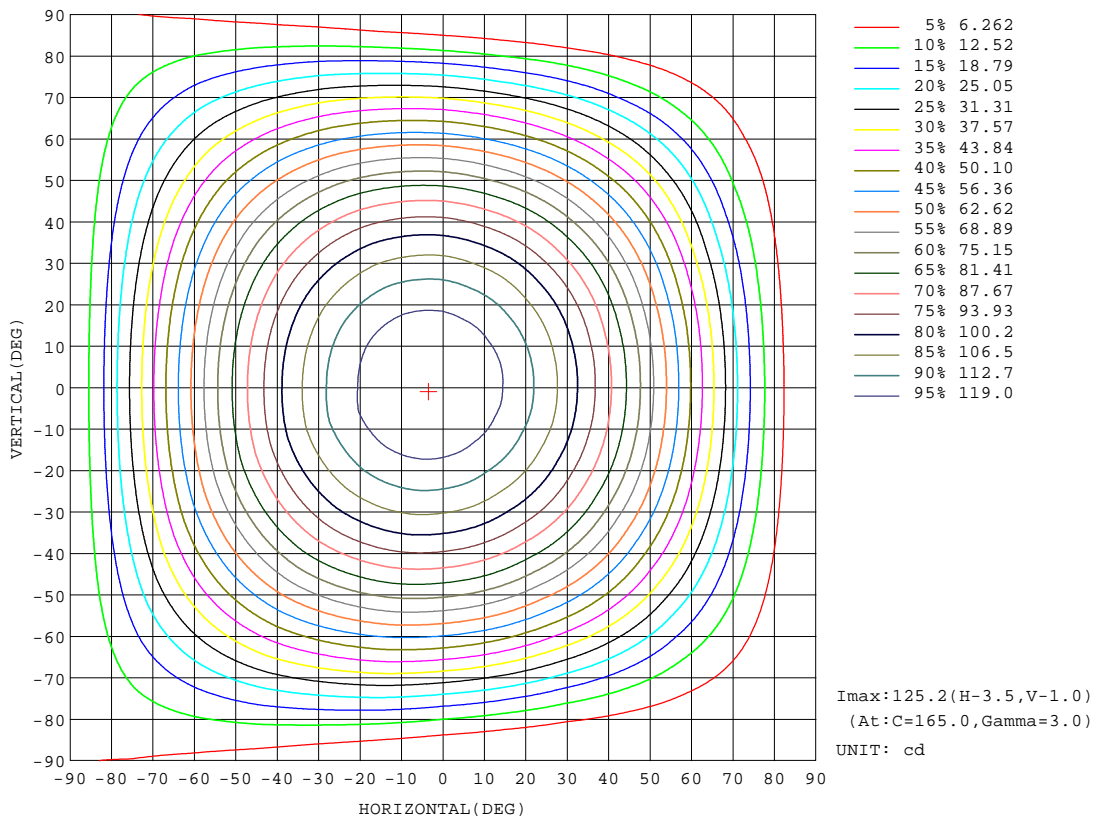
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	91	86	78
4.00	106	100	95	104	98	94	99	95	91	83
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

ISOCANDELA DIAGRAM

NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:



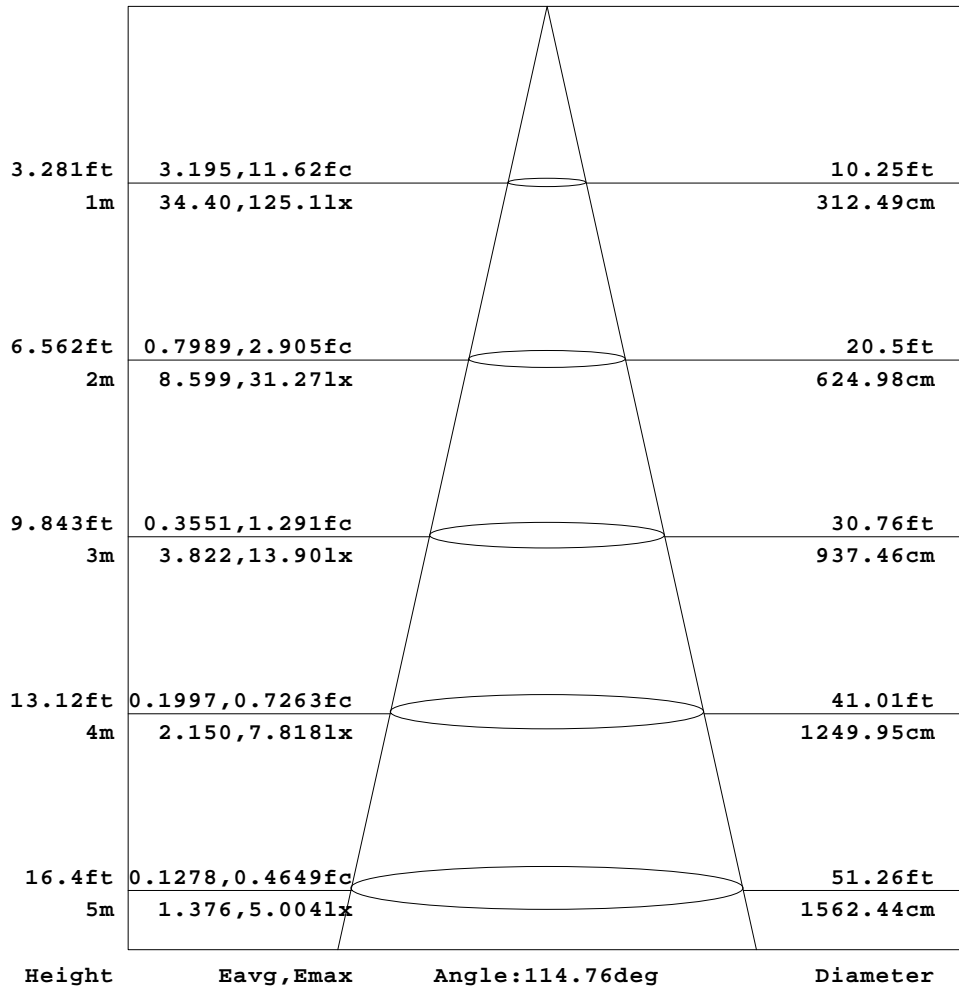
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

AAI Figure

NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

Flux out:276.7 lm



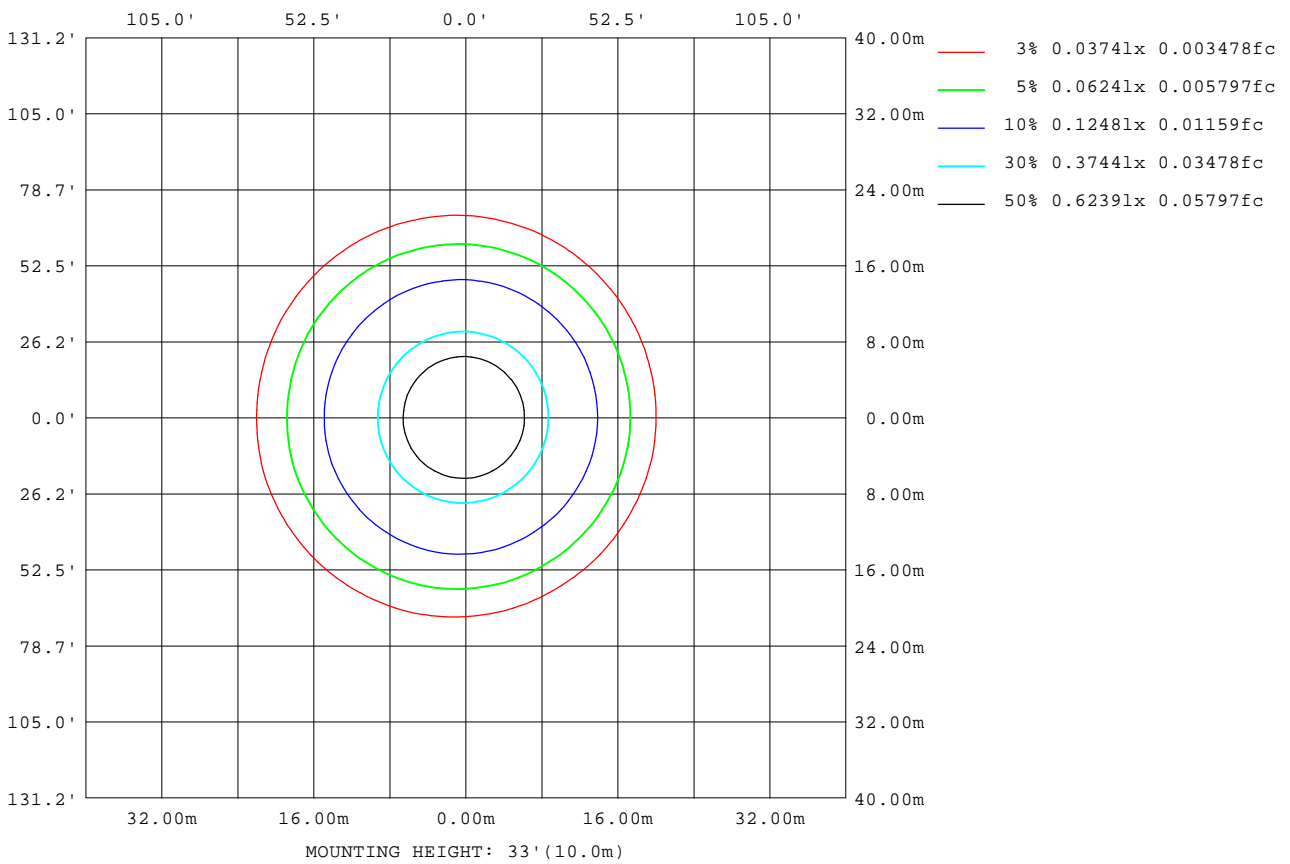
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

ISOLUX DIAGRAM

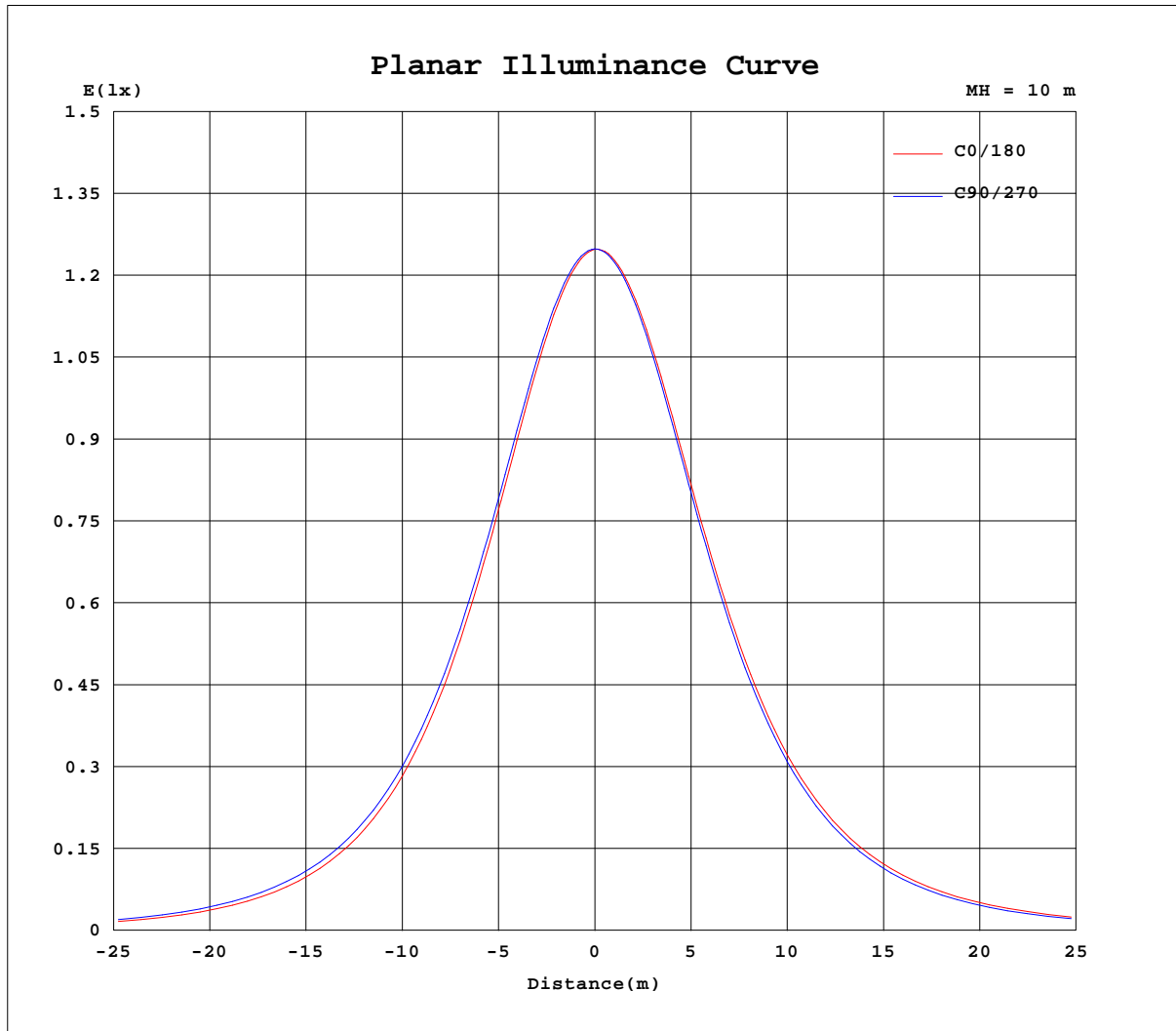
NAME: LED-FLS24W-WW	TYPE:Strip	WEIGHT:0.1Kg`
DIM.: 1000*8*2mm	SPEC.:4.8W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:mo fu mei
 Test Date:2013-08-07

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks: Strip,1M,4.8W/M,LED:589-592

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: mo fu mei
 Test Date: 2013-08-07

Page Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity: 65.0%
 Test Distance: 7.000m [K=1.0000]
 Remarks: Strip, 1M, 4.8W/M, LED: 589-592

