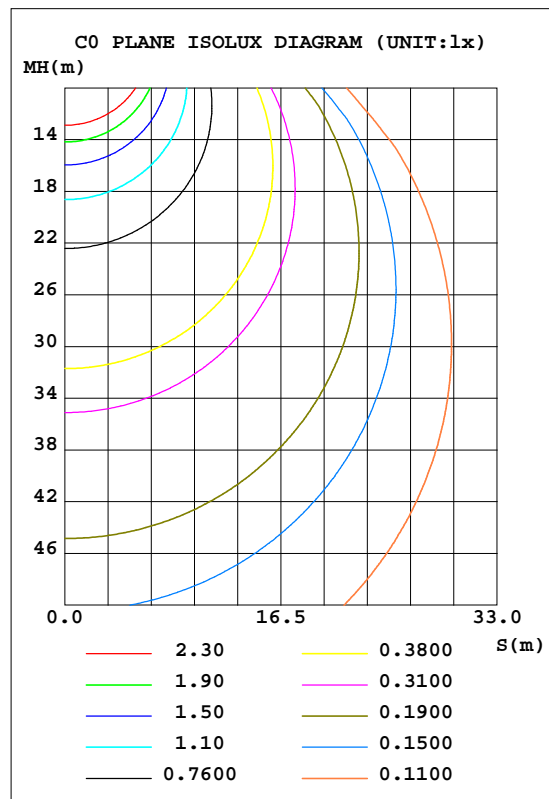
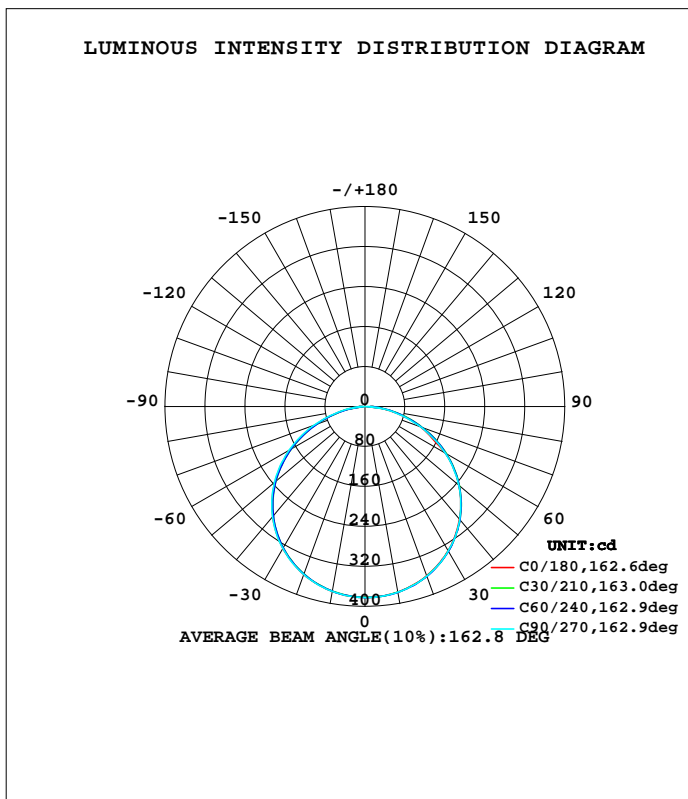


LUMINAIRE PHOTOMETRIC TEST REPORT

	TYPE:Strip	WEIGHT:0.1Kg
DIM.: 1000*10*2(mm)	SPEC.:14.4W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.38 lm/W
MODEL	SMD 3014/W6-4/LED	I _{max} (cd)	382.3	S/MH(C0/180)	1.30	
NOMINAL POWER(W)	14.4	LOR(%)	100.0	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	1143.0	h UP, DN(C0-180)	0.0, 50.9	
NOMINAL FLUX(lm)	1143.04	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 49.1	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	12	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
 Test Date:2013-08-28

deg 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,14.4W/M,Vin=12V

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	377.0	377.8	377.5	376.3	375.7	375.1	375.9	375.9	0- 10	36.20	36.20	3.17,3.17
20	360.7	362.0	361.4	359.6	357.8	356.6	358.0	358.7	10- 20	104.3	140.5	12.3,12.3
30	333.0	334.8	333.8	331.2	328.4	326.5	328.8	330.4	20- 30	159.7	300.2	26.3,26.3
40	294.6	296.4	295.0	291.4	287.4	284.8	288.1	290.9	30- 40	195.4	495.6	43.4,43.4
50	245.2	247.2	245.2	240.3	235.4	232.2	236.5	240.7	40- 50	205.9	701.5	61.4,61.4
60	185.8	188.5	185.0	179.2	173.3	169.6	175.3	181.0	50- 60	188.6	890.1	77.9,77.9
70	117.6	122.4	117.2	110.8	104.2	100.7	107.2	114.5	60- 70	144.6	1035	90.5,90.5
80	51.48	56.64	50.74	44.86	39.83	37.36	42.06	50.03	70- 80	82.63	1117	97.7,97.7
90	10.98	11.35	2.917	6.846	5.100	5.527	0.4578	7.174	80- 90	25.75	1143	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		

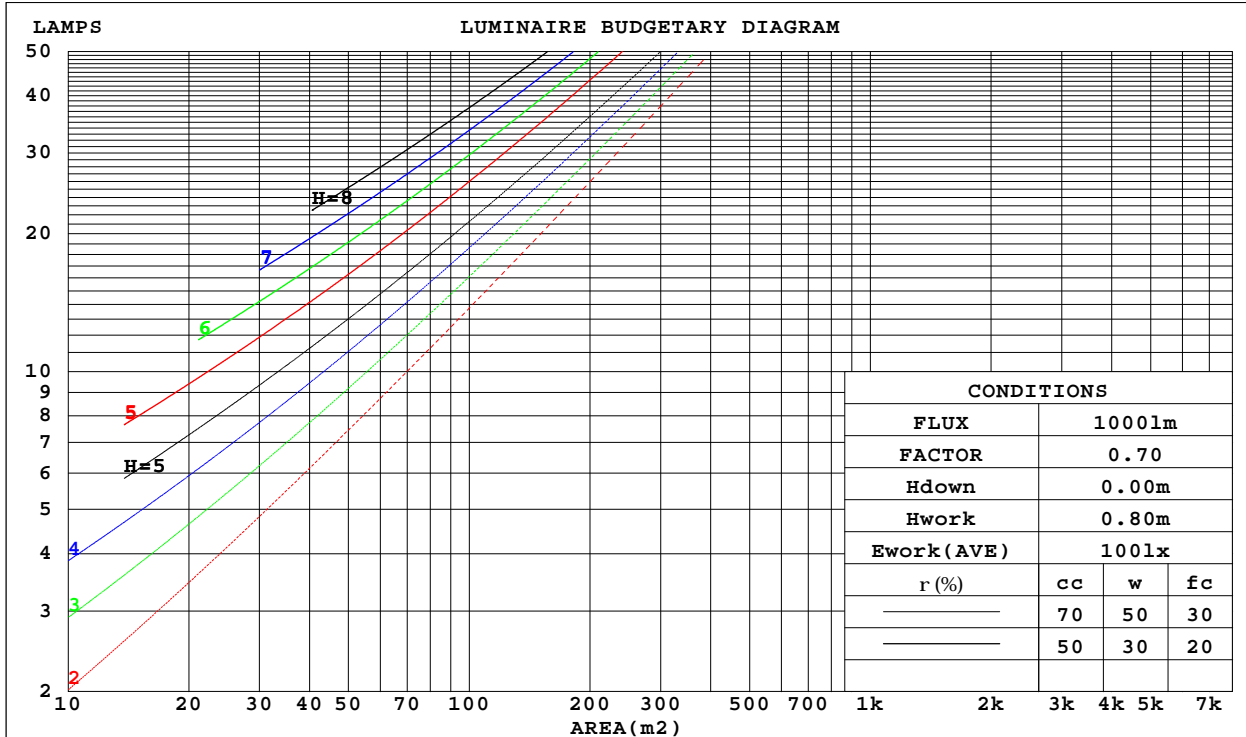
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:MO
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED-FLS72W-NW	TYPE:Strip	WEIGHT:0.1Kg
DIM.: 1000*10*2(mm)	SPEC.:14.4W	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	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:MO
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

WEC AND CCEC

NAME: LED-FLS72W-NW	TYPE:Strip	WEIGHT:0.1Kg
DIM.: 1000*10*2(mm)	SPEC.:14.4W	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	.316	.180	.057	.309	.176	.056	.296	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.230	.123	.037	.222	.120	.037	
5.0	.233	.119	.034	.229	.117	.034	.220	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030	
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.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	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.101	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.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	.011	.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	.130	.070	.028	.112	.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
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

Uncorrected UGR Table

NAME: LED-FLS72W-NW		TYPE:Strip					WEIGHT:0.1Kg					
DIM.: 1000*10*2(mm)		SPEC.:14.4W					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	25.7	27.2	26.0	27.4	27.6	25.7	27.2	25.9	27.4	27.6	
	3H	27.3	28.7	27.6	29.0	29.2	27.3	28.7	27.6	28.9	29.2	
	4H	28.0	29.3	28.3	29.6	29.8	27.9	29.3	28.2	29.5	29.8	
	6H	28.4	29.7	28.8	30.0	30.3	28.4	29.7	28.7	29.9	30.2	
	8H	28.6	29.8	28.9	30.1	30.4	28.5	29.8	28.9	30.1	30.4	
	12H	28.7	29.9	29.1	30.2	30.5	28.7	29.8	29.0	30.1	30.4	
	4H	2H	26.4	27.7	26.7	28.0	28.2	26.3	27.7	26.7	27.9	28.2
		3H	28.2	29.4	28.5	29.6	30.0	28.1	29.3	28.5	29.6	29.9
		4H	28.9	30.0	29.3	30.4	30.7	28.9	30.0	29.3	30.3	30.6
		6H	29.6	30.5	30.0	30.9	31.3	29.5	30.5	29.9	30.8	31.2
		8H	29.8	30.7	30.2	31.1	31.4	29.7	30.6	30.1	31.0	31.4
		12H	30.0	30.8	30.4	31.2	31.6	29.9	30.7	30.3	31.1	31.5
	8H	4H	29.3	30.2	29.7	30.5	30.9	29.2	30.1	29.6	30.5	30.9
		6H	30.1	30.8	30.5	31.2	31.6	30.0	30.8	30.4	31.2	31.6
		8H	30.4	31.0	30.8	31.5	31.9	30.3	31.0	30.8	31.4	31.9
		12H	30.7	31.2	31.1	31.7	32.2	30.6	31.2	31.1	31.6	32.1
	12H	4H	29.3	30.1	29.7	30.5	30.9	29.2	30.1	29.7	30.5	30.9
		6H	30.1	30.8	30.6	31.2	31.7	30.1	30.8	30.5	31.2	31.6
		8H	30.5	31.1	31.0	31.5	32.0	30.5	31.0	30.9	31.5	32.0
Variations with the observer position at spacings:												
S = 1.0H		+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 1143 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:MO
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

UTILIZATION FACTORS TABLE

NAME: LED-FLS72W-NW	TYPE:Strip	WEIGHT:0.1Kg
DIM.: 1000*10*2(mm)	SPEC.:14.4W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

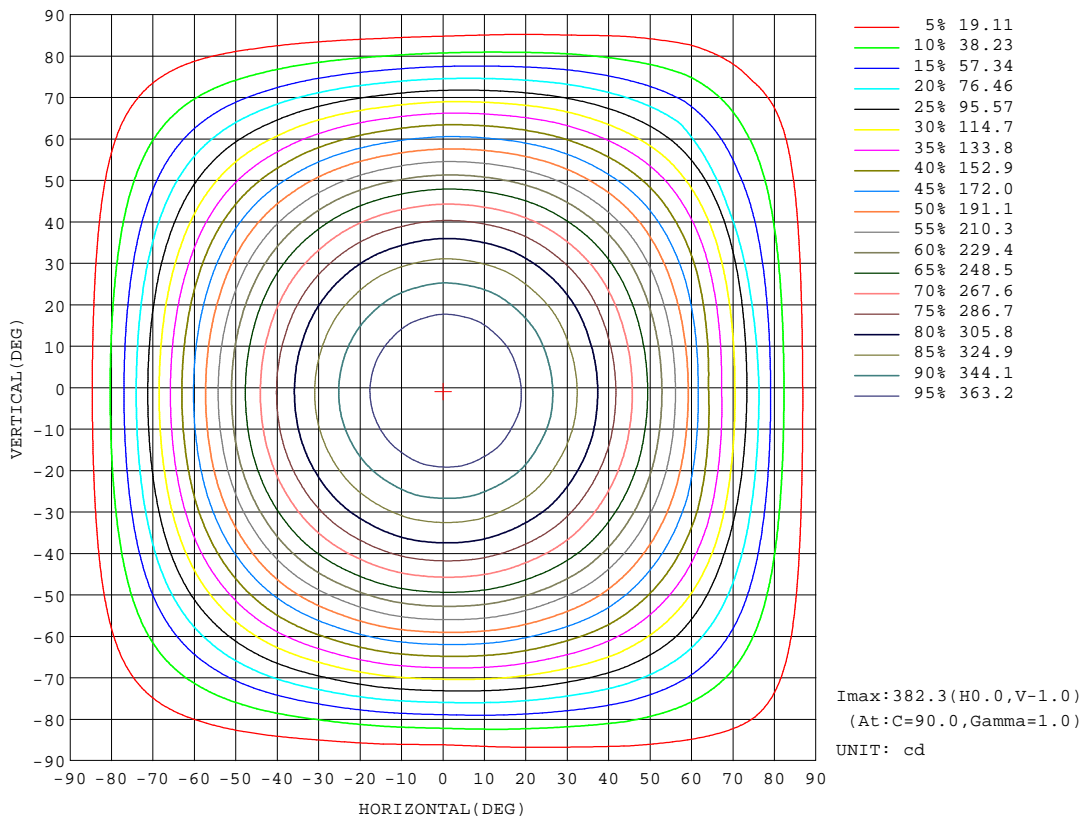
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	93	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
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
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

ISOCANDELA DIAGRAM

NAME: LED-FLS72W-NW	TYPE:Strip	WEIGHT:0.1Kg
DIM.: 1000*10*2(mm)	SPEC.:14.4W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:



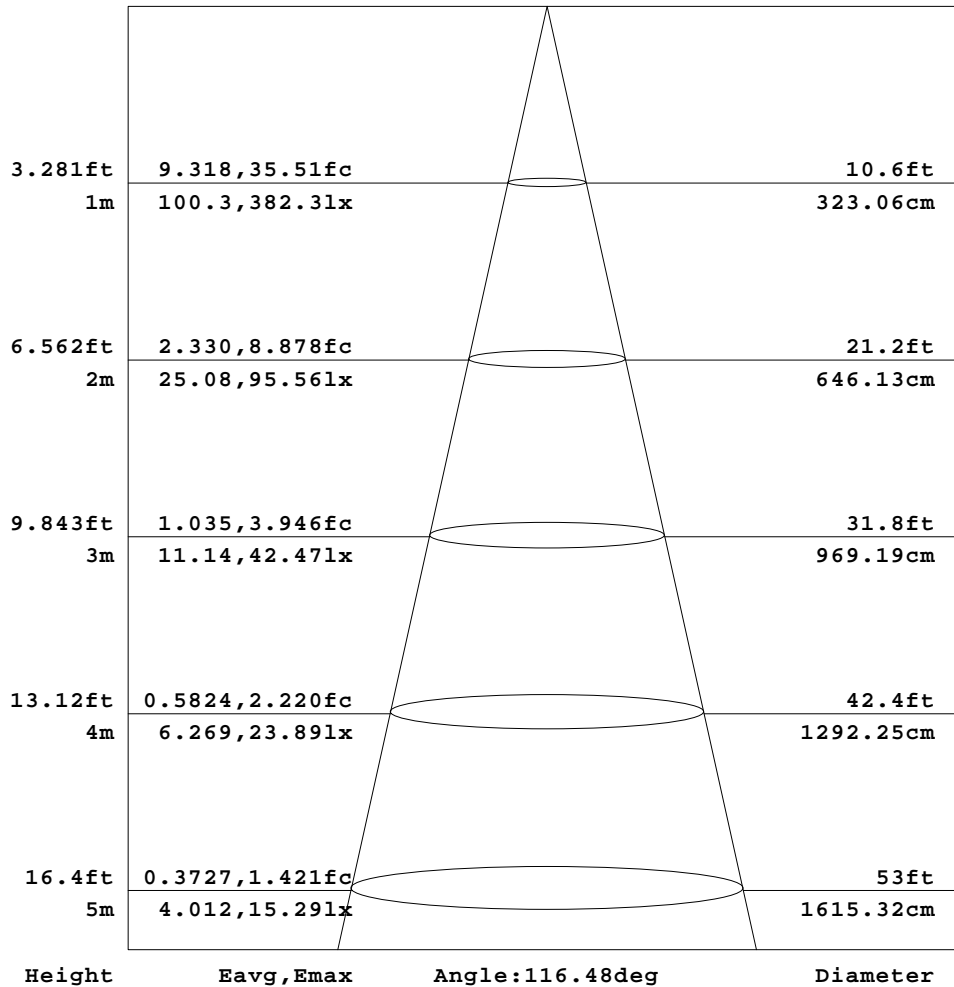
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:MO
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

AAI Figure

NAME: LED-FLS72W-NW	TYPE:Strip	WEIGHT:0.1Kg
DIM.: 1000*10*2(mm)	SPEC.:14.4W	SERIAL No.:1
	SUR.:120	PROTECTION ANGLE:

Flux out:872.8 lm



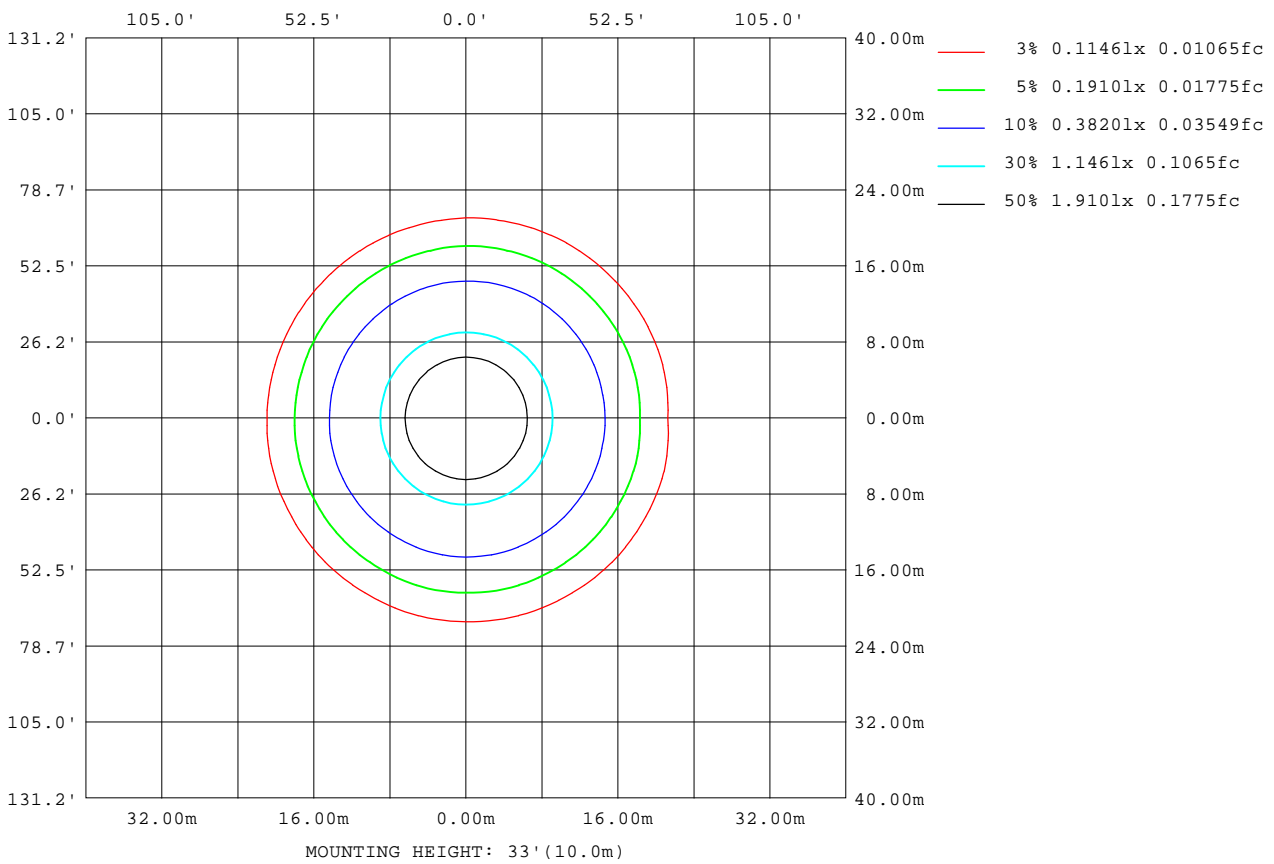
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:MO
 Test Date:2013-08-28

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,14.4W/M,Vin=12V

ISOLUX DIAGRAM

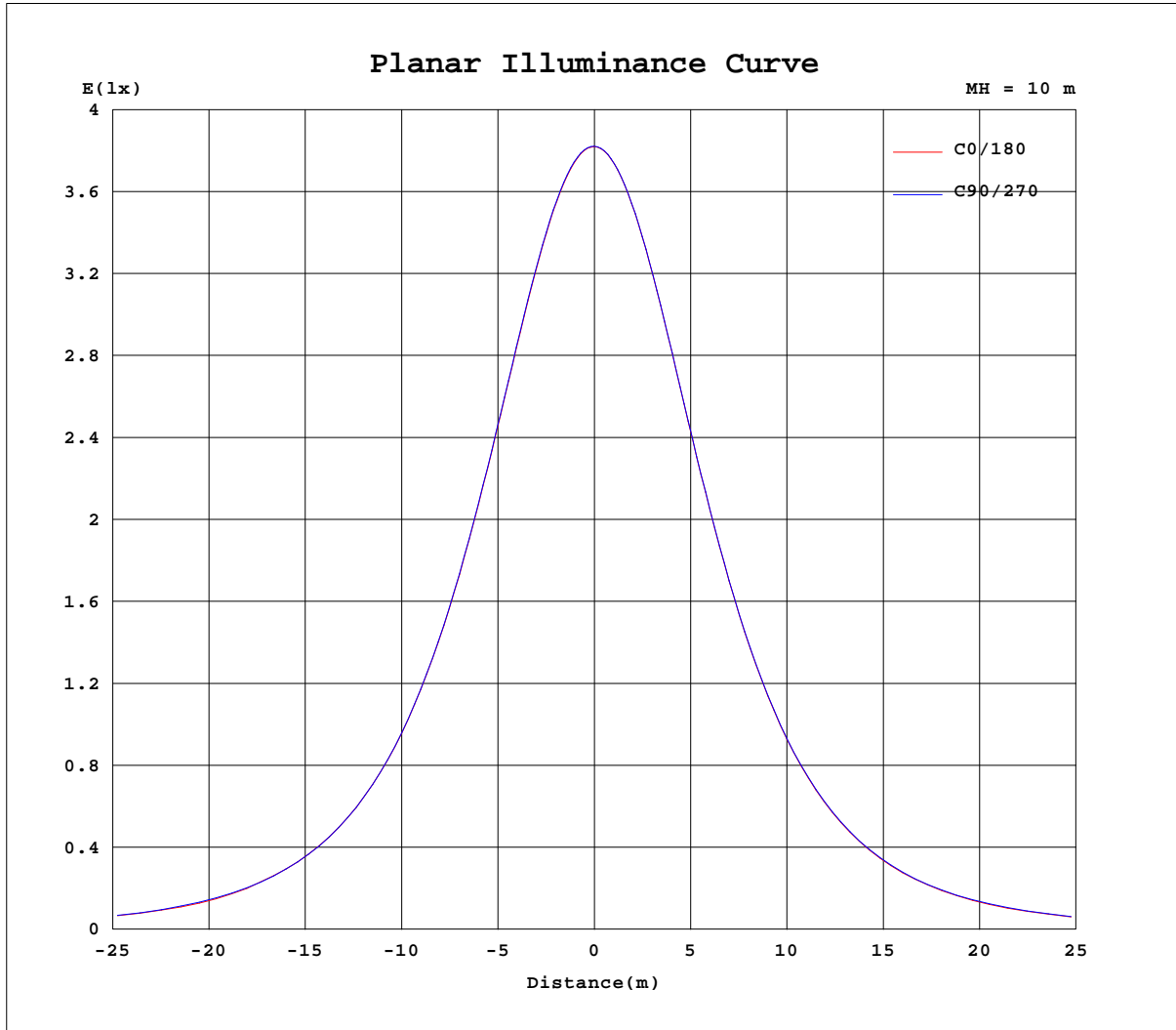
NAME: LED-FLS72W-NW	TYPE: Strip	WEIGHT: 0.1Kg
DIM.: 1000*10*2(mm)	SPEC.: 14.4W	SERIAL No.: 1
	SUR.: 120	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:MO
Test Date:2013-08-28

Page Range: 0 - 90DEG
Page 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,14.4W/M,Vin=12V

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: MO
 Test Date: 2013-08-28

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, 14.4W/M, Vin=12V

