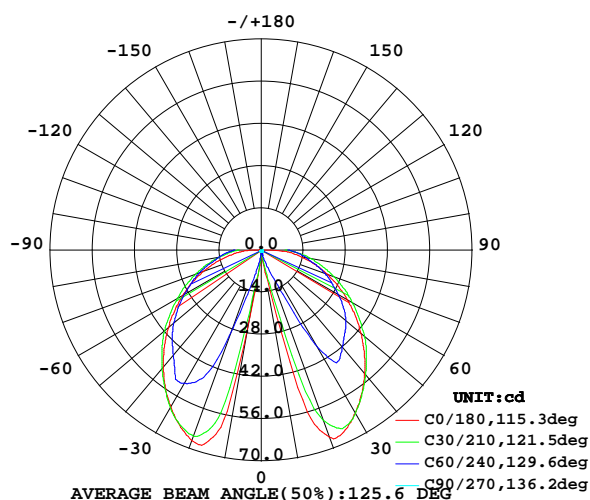


LUMINAIRE PHOTOMETRIC TEST REPORT

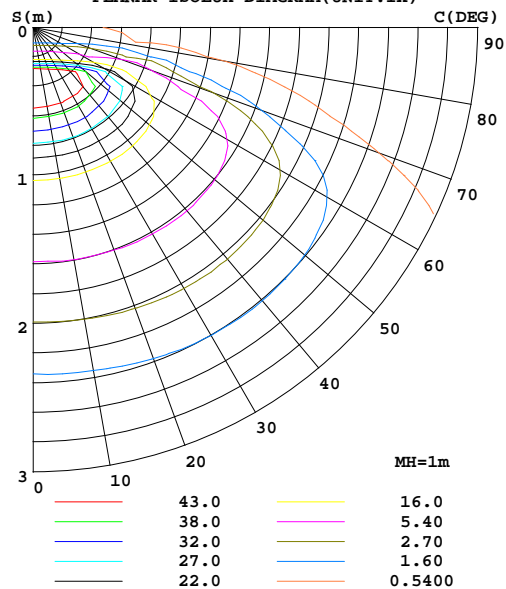
NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 38.42 lm/W
MODEL	SAMSUNG 5630	Imax(cd)	67.87	S/MH(C0/180)	6.13	
NOMINAL POWER(W)	2.7	LOR(%)	56.9	S/MH(C90/270)	1.41	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	153.68	h UP,DN(C0-180)	0.0,28.6	
NOMINAL FLUX(lm)	270	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,28.3	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	h down(%)	56.9	CIBSE SHR MAX	0.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:ZHW
Test Date:2012-09-06

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	0.9567	0.7118	0.7609	1.817	3.285	1.845	0.7698	0.7039	0- 5	0.0241	0.0241	0.02,0.01
10	5.376	1.654	0.7632	7.652	23.00	7.853	0.7810	1.614	5- 10	0.2352	0.2593	0.17,0.10
15	47.30	6.930	0.7655	36.46	64.93	38.59	0.7921	6.713	10- 15	1.831	2.090	1.36,0.77
20	65.95	35.24	0.7495	61.19	67.28	61.16	0.7754	34.06	15- 20	5.390	7.481	4.87,2.77
25	65.97	57.48	0.7335	62.66	64.22	62.16	0.7587	56.27	20- 25	8.551	16.03	10.4,5.94
30	62.47	59.51	0.7175	59.66	60.21	59.07	0.7419	58.42	25- 30	10.87	26.90	17.5,9.96
35	58.19	57.07	0.6905	56.13	55.58	55.51	0.7204	56.14	30- 35	12.55	39.45	25.7,14.6
40	53.44	53.57	0.6635	52.27	50.63	51.64	0.6988	52.75	35- 40	13.50	52.96	34.5,19.6
45	48.44	48.86	0.6366	47.31	45.49	46.74	0.6772	48.18	40- 45	13.79	66.75	43.4,24.7
50	43.28	44.28	0.5857	42.52	40.33	41.99	0.6234	43.73	45- 50	13.63	80.38	52.3,29.8
55	38.13	39.83	0.5348	37.92	35.14	37.42	0.5696	39.37	50- 55	13.24	93.63	60.9,34.7
60	33.04	35.04	0.4840	33.13	30.08	32.69	0.5158	34.65	55- 60	12.48	106.1	69,39.3
65	28.04	30.40	0.4219	28.54	25.09	28.16	0.4499	30.06	60- 65	11.40	117.5	76.5,43.5
70	23.12	25.90	0.3598	24.08	20.19	23.72	0.3840	25.60	65- 70	10.21	127.7	83.1,47.3
75	18.30	21.49	0.2977	19.65	15.37	19.28	0.3181	21.23	70- 75	8.813	136.5	88.8,50.6
80	13.63	17.18	0.2385	15.40	10.74	15.06	0.2304	16.94	75- 80	7.268	143.8	93.6,53.3
85	9.169	12.98	0.1792	11.66	6.491	11.71	0.1428	12.69	80- 85	5.755	149.5	97.3,55.4
90	0.3385	8.801	0.1200	7.963	0.6673	8.403	0.0552	8.441	85- 90	4.134	153.7	100,56.9
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

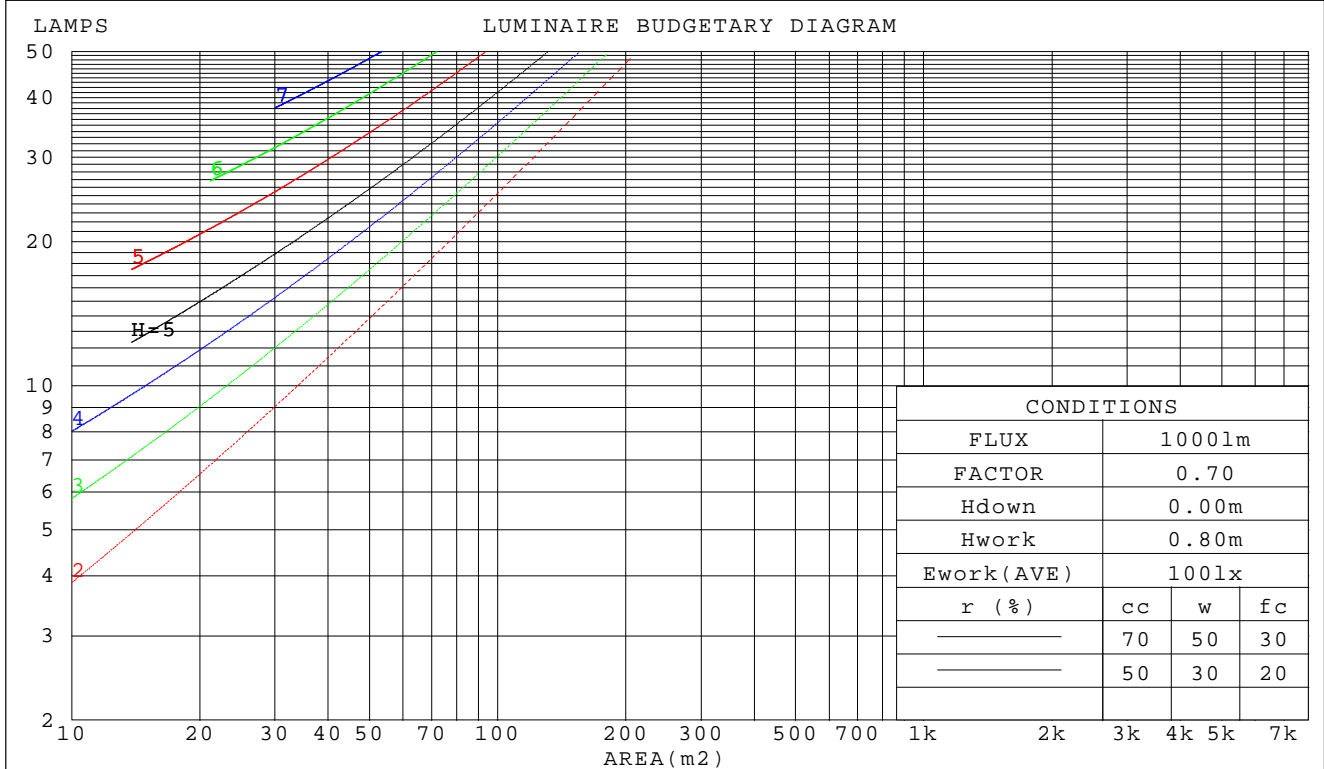
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:ZHW
 Test Date:2012-09-06

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	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															



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:ZHW
 Test Date:2012-09-06

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	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	.220 .125 .040	.216 .123 .039	.209 .120 .038	.201 .116 .037	.195 .113 .036	
2.0	.196 .107 .033	.192 .106 .033	.185 .103 .032	.179 .100 .031	.173 .098 .031	
3.0	.176 .094 .028	.173 .092 .028	.166 .090 .027	.161 .088 .027	.155 .086 .027	
4.0	.159 .083 .024	.156 .082 .024	.151 .080 .024	.146 .078 .024	.141 .077 .023	
5.0	.145 .074 .021	.143 .073 .021	.138 .072 .021	.133 .070 .021	.129 .069 .021	
6.0	.134 .067 .019	.131 .066 .019	.127 .065 .019	.123 .064 .019	.119 .063 .019	
7.0	.123 .061 .017	.121 .060 .017	.117 .059 .017	.114 .058 .017	.110 .057 .017	
8.0	.115 .056 .016	.113 .056 .016	.109 .055 .016	.106 .054 .015	.103 .053 .015	
9.0	.107 .052 .014	.105 .051 .014	.102 .050 .014	.099 .050 .014	.096 .049 .014	
10.0	.100 .048 .013	.099 .048 .013	.096 .047 .013	.093 .046 .013	.091 .046 .013	

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	.108 .108 .108	.093 .093 .093	.063 .063 .063	.036 .036 .036	.012 .012 .012	
1.0	.106 .088 .073	.090 .076 .063	.062 .052 .043	.036 .030 .025	.011 .010 .008	
2.0	.102 .075 .052	.087 .065 .045	.060 .045 .031	.035 .026 .018	.011 .008 .006	
3.0	.098 .065 .039	.084 .056 .034	.058 .039 .024	.033 .023 .014	.011 .007 .005	
4.0	.094 .058 .031	.080 .050 .027	.055 .035 .019	.032 .020 .011	.010 .007 .004	
5.0	.089 .052 .025	.077 .045 .022	.053 .032 .015	.031 .018 .009	.010 .006 .003	
6.0	.085 .047 .021	.073 .041 .018	.050 .029 .013	.029 .017 .008	.009 .006 .002	
7.0	.081 .044 .018	.070 .038 .015	.048 .027 .011	.028 .016 .006	.009 .005 .002	
8.0	.077 .040 .015	.066 .035 .013	.046 .025 .009	.027 .015 .006	.009 .005 .002	
9.0	.073 .038 .013	.063 .033 .012	.044 .023 .008	.026 .014 .005	.008 .004 .002	
10.0	.070 .035 .012	.060 .031 .010	.042 .021 .007	.024 .013 .004	.008 .004 .001	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:ZHW
 Test Date:2012-09-06

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: E41323						TYPE:LED WALL LIGHT			WEIGHT:		
DIM.: 150*150*60mm						SPEC.:			SERIAL No.:120906002		
MFR.:						SUR.:			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	17.0	18.6	17.2	18.9	19.1	12.2	13.9	12.5	14.2	14.4
	3H	18.8	20.3	19.1	20.6	20.8	12.5	14.1	12.8	14.4	14.6
	4H	19.6	21.1	20.0	21.4	21.7	12.6	14.1	12.9	14.4	14.6
	6H	20.5	21.9	20.8	22.2	22.5	12.6	14.0	13.0	14.3	14.6
	8H	20.8	22.2	21.2	22.5	22.8	12.6	14.0	13.0	14.3	14.6
	12H	21.2	22.5	21.6	22.9	23.2	12.6	13.9	13.0	14.2	14.6
4H	2H	17.6	19.2	18.0	19.4	19.7	14.9	16.4	15.2	16.7	17.0
	3H	19.8	21.1	20.1	21.4	21.7	16.4	17.7	16.7	18.0	18.3
	4H	20.8	22.1	21.2	22.4	22.7	16.9	18.1	17.3	18.4	18.8
	6H	21.8	22.9	22.2	23.3	23.7	17.2	18.3	17.6	18.6	19.0
	8H	22.3	23.4	22.7	23.7	24.1	17.3	18.3	17.7	18.7	19.1
	12H	22.8	23.8	23.2	24.2	24.6	17.3	18.3	17.7	18.7	19.1
8H	4H	21.3	22.4	21.7	22.7	23.1	18.5	19.5	18.9	19.9	20.3
	6H	22.6	23.5	23.1	23.9	24.4	19.5	20.4	20.0	20.8	21.3
	8H	23.3	24.1	23.8	24.5	25.0	20.0	20.8	20.5	21.2	21.7
	12H	24.0	24.7	24.5	25.1	25.6	20.3	21.0	20.8	21.5	21.9
12H	4H	21.4	22.3	21.8	22.7	23.2	18.7	19.7	19.2	20.1	20.5
	6H	22.9	23.6	23.3	24.1	24.5	20.1	20.9	20.6	21.3	21.8
	8H	23.6	24.3	24.1	24.8	25.3	20.8	21.5	21.3	22.0	22.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.4 / - 0.2					
2.0H	+ 0.2 / - 0.4					+ 0.6 / - 0.5					

CIE Pub.117 Corrected 270.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.5)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:ZHW
 Test Date:2012-09-06

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:

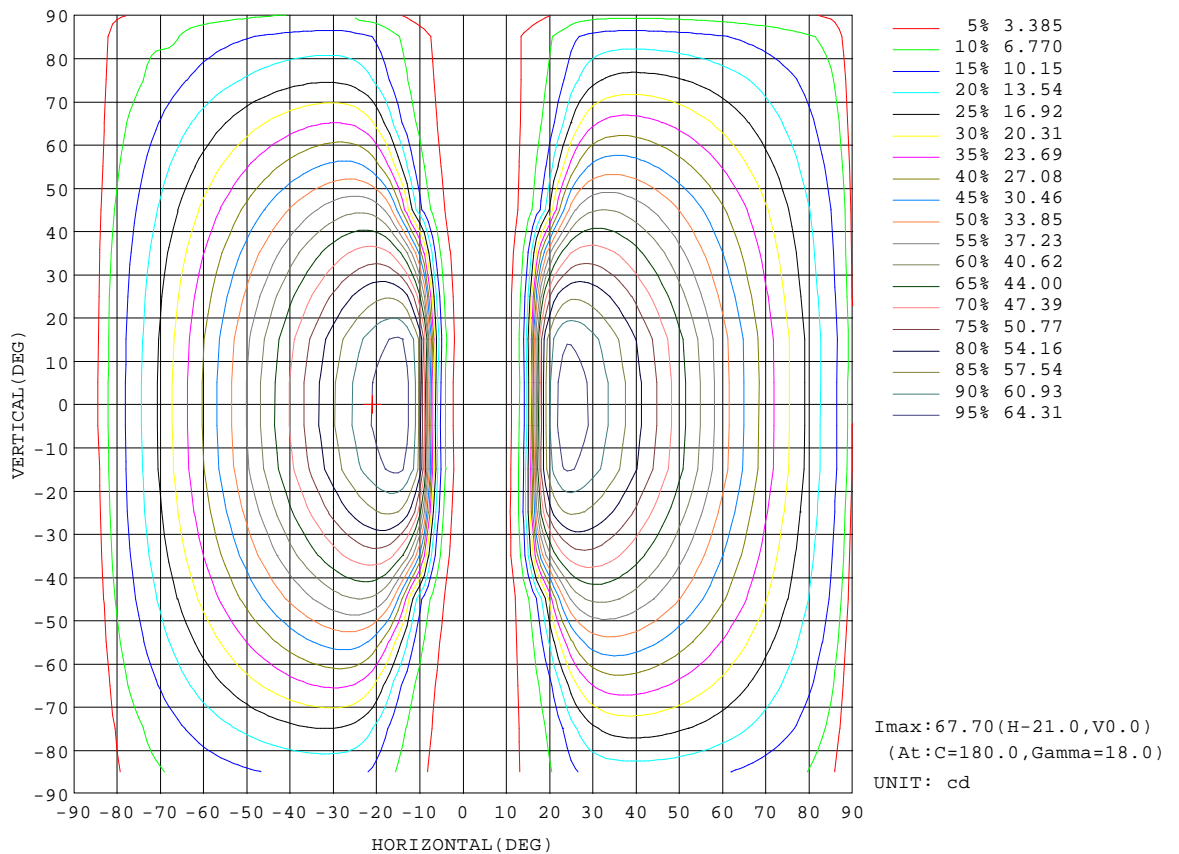
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	29	22	18	29	22	18	28	22	18	14
0.80	35	28	23	34	28	23	33	27	23	18
1.00	40	33	28	39	32	28	38	34	28	23
1.25	44	37	33	43	37	32	42	36	32	27
1.50	47	41	36	46	40	36	44	39	35	30
2.00	51	46	41	50	45	41	48	44	40	35
2.50	54	49	44	53	48	44	50	46	43	38
3.00	56	51	47	55	50	47	52	49	46	40
4.00	59	55	51	57	53	50	54	51	49	43
5.00	60	57	54	59	56	53	56	53	51	45
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:ZHW
 Test Date:2012-09-06

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:

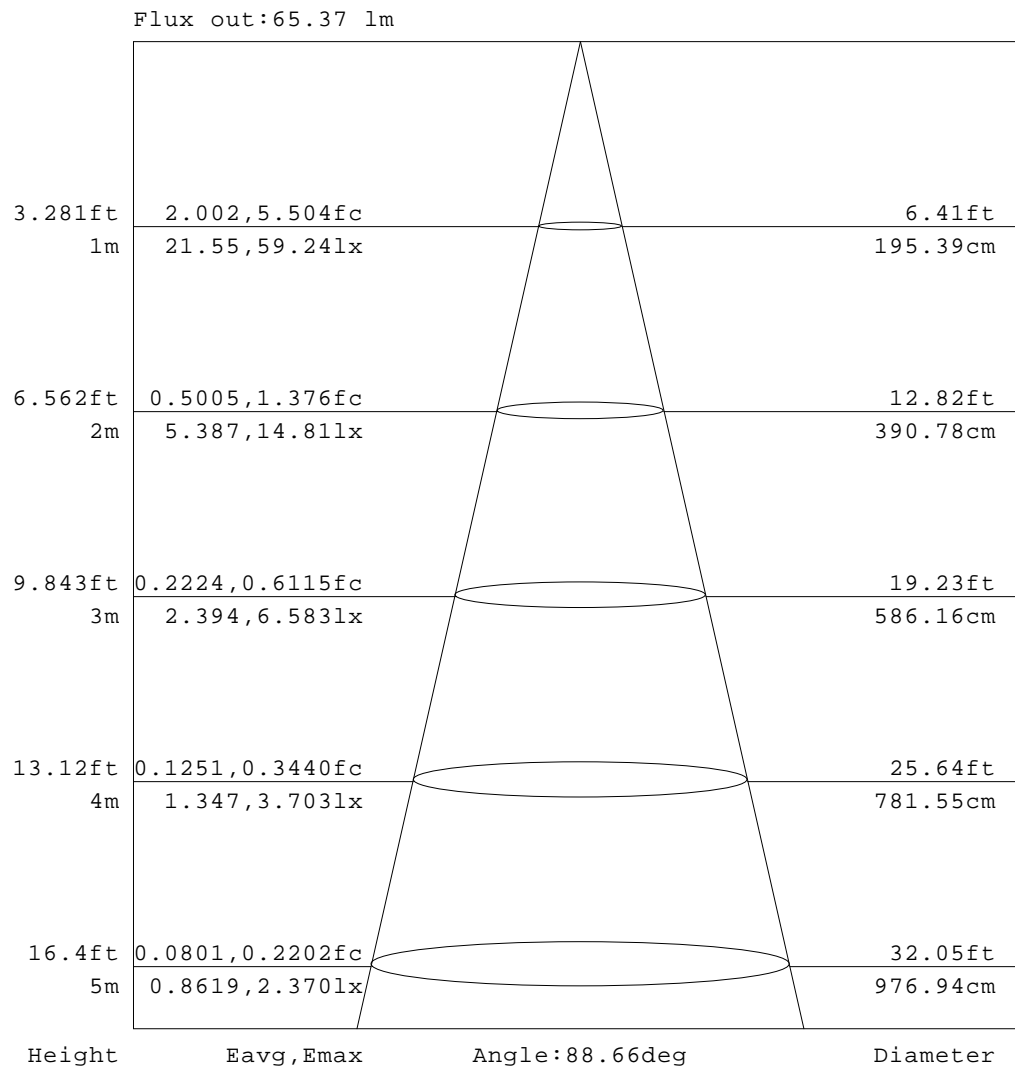


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:ZHW
Test Date:2012-09-06

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:

AAI Figure

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:



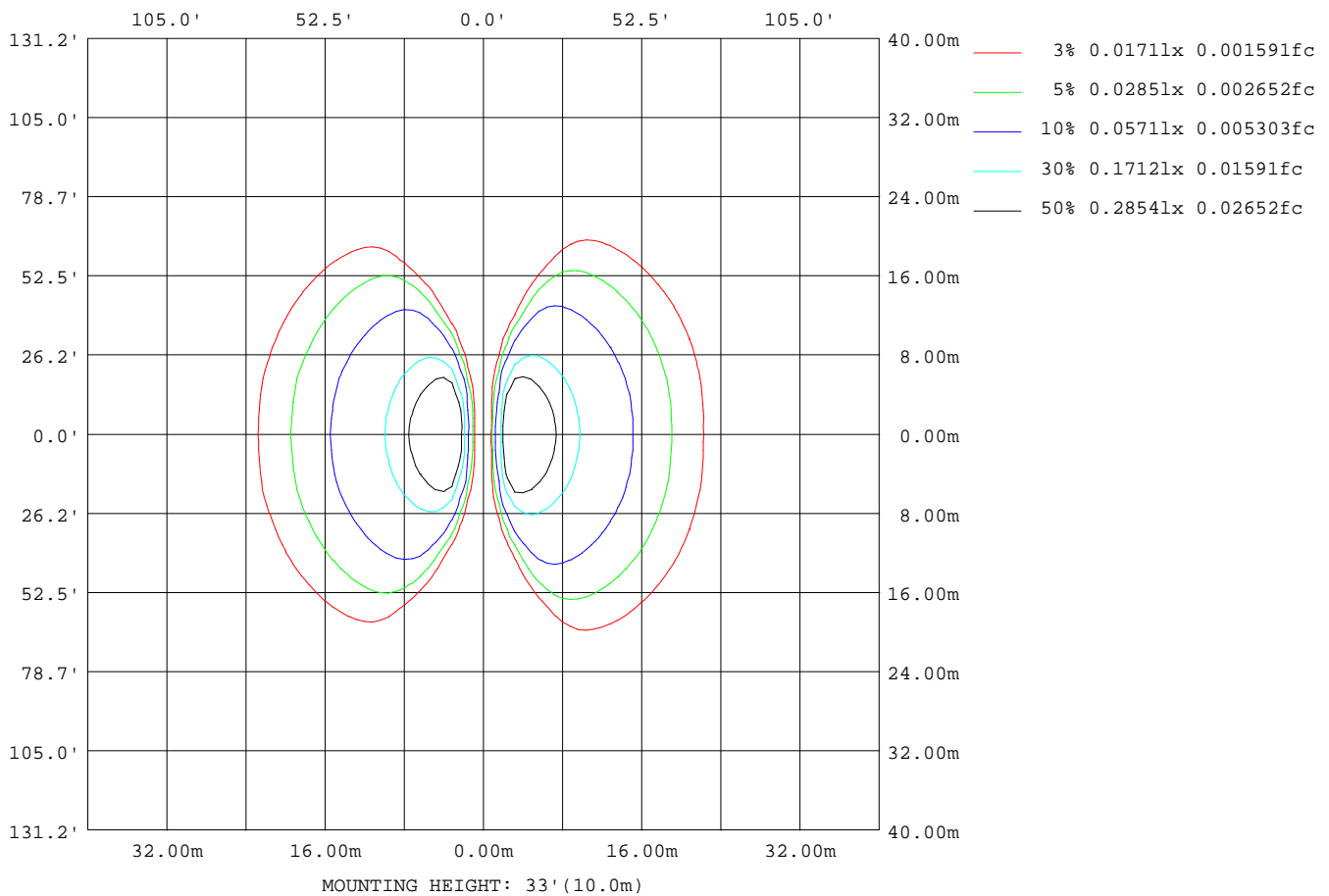
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: ZHW
Test Date: 2012-09-06

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity: 65.0%
Test Distance: 6.120m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

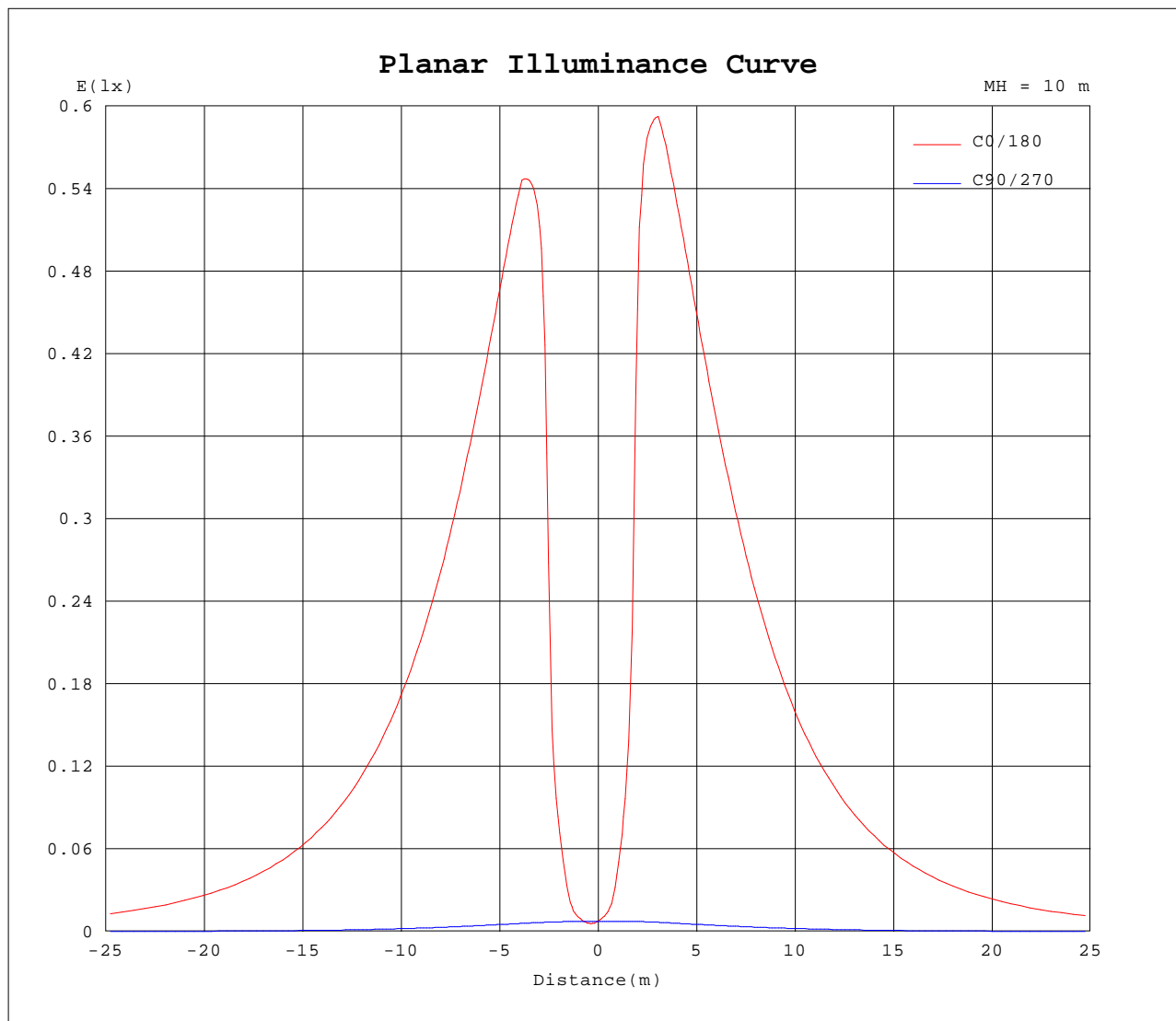
NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:ZHW
Test Date:2012-09-06

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: ZHW
Test Date: 2012-09-06

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity: 65.0%
Test Distance: 6.120m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: ZHW
Test Date: 2012-09-06

```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:
```

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41323	TYPE:LED WALL LIGHT	WEIGHT:
DIM.: 150*150*60mm	SPEC.:	SERIAL No.:120906002
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:ZHW
Test Date:2012-09-06

```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:
```