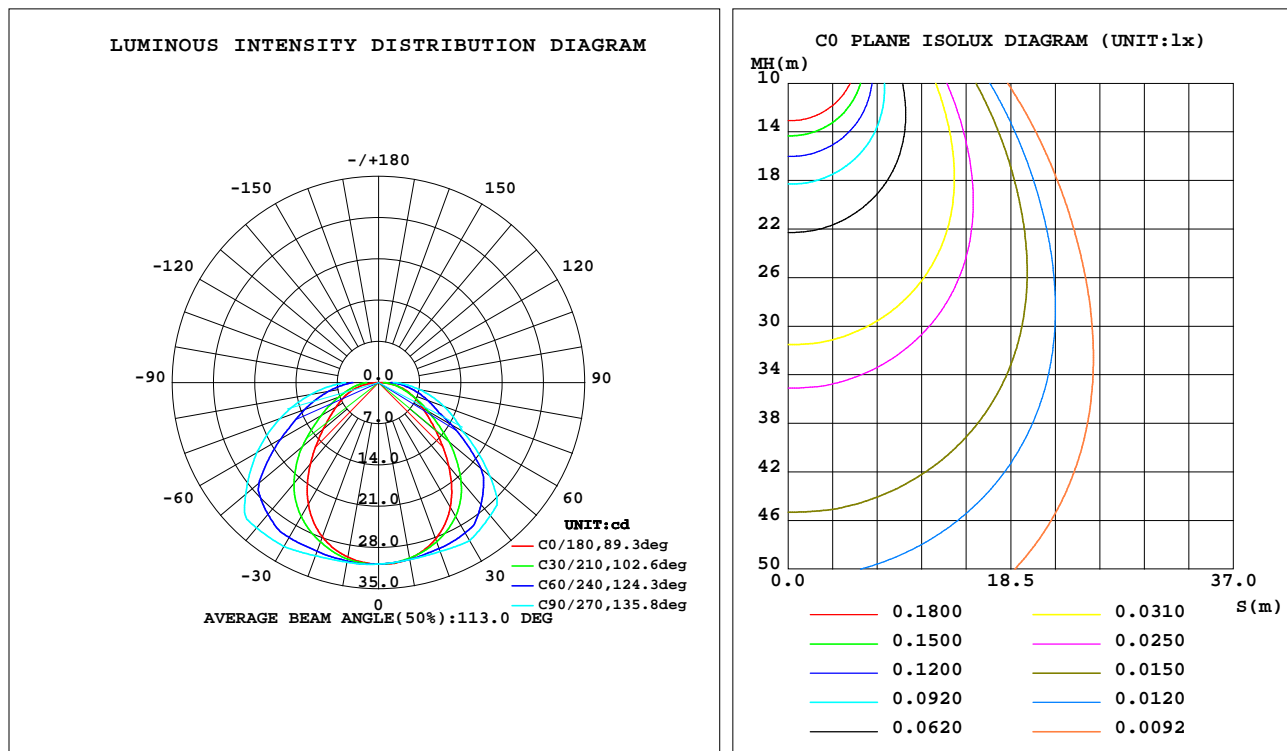


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax(cd)	32.23	S/MH(C0/180)	1.16
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.60
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	98.308	h UP,DN(C0-180)	0.0,46.5
NOMINAL FLUX(lm)	98.3079	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,53.5
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	0	h down(%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:21DEG
Operators:黄亚州
Test Date:2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [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	30.79	30.65	30.64	30.65	30.61	30.85	30.92	30.85	0- 5	0.7358	0.7358	0.75,0.75
10	30.32	30.36	30.50	30.29	30.07	30.60	30.94	30.71	5- 10	2.190	2.926	2.98,2.98
15	29.50	29.93	30.45	29.78	29.18	30.16	31.04	30.40	10- 15	3.591	6.516	6.63,6.63
20	28.28	29.34	30.50	29.29	27.88	29.70	31.26	29.90	15- 20	4.911	11.43	11.6,11.6
25	26.58	28.73	30.73	28.63	26.12	29.08	31.69	29.42	20- 25	6.126	17.55	17.9,17.9
30	24.38	27.87	30.97	27.84	23.86	28.40	32.12	28.82	25- 30	7.206	24.76	25.2,25.2
35	21.64	26.66	30.23	26.80	21.09	27.52	32.16	28.00	30- 35	8.081	32.84	33.4,33.4
40	18.56	24.92	29.50	25.25	18.02	26.24	32.19	26.81	35- 40	8.660	41.50	42.2,42.2
45	15.44	21.97	28.42	22.50	14.96	24.02	31.95	24.72	40- 45	8.927	50.43	51.3,51.3
50	12.68	18.81	24.64	19.54	12.28	21.55	29.45	22.31	45- 50	8.786	59.21	60.2,60.2
55	10.43	15.55	20.53	16.41	10.10	18.77	26.66	19.55	50- 55	8.132	67.35	68.5,68.5
60	8.663	11.98	16.41	12.73	8.374	15.12	23.87	15.81	55- 60	7.200	74.54	75.8,75.8
65	7.210	8.940	14.10	9.581	6.944	11.91	20.83	12.49	60- 65	6.197	80.74	82.1,82.1
70	5.888	6.771	11.79	7.305	5.633	9.448	17.78	9.920	65- 70	5.290	86.03	87.5,87.5
75	4.536	5.310	9.478	5.756	4.268	7.638	14.73	8.031	70- 75	4.422	90.45	92,92
80	3.034	3.969	7.167	4.334	2.714	6.048	11.69	6.380	75- 80	3.532	93.99	95.6,95.6
85	1.323	2.721	4.855	3.029	0.9584	4.603	8.639	4.887	80- 85	2.615	96.60	98.3,98.3
90	0	1.525	2.544	1.776	0.0000	3.249	5.592	3.494	85- 90	1.708	98.31	100,100
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		

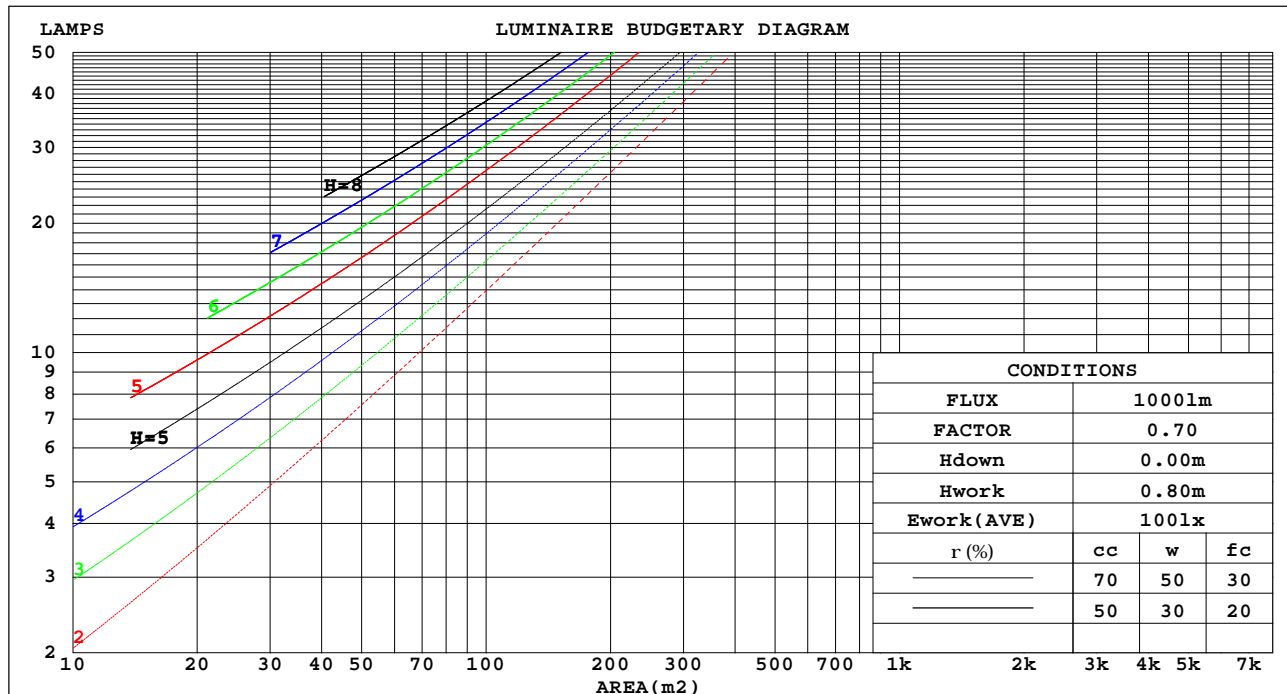
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:21DEG
 Operators:黄亚州
 Test Date:2015-12-29

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:60.0%
 Test Distance:13.450m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	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
rfe	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 21DEG
Operators: 黄亚州
Test Date: 2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 60.0%
Test Distance: 13.450m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	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	.341	.194	.061	.334	.190	.060	.320	.184	.059	.308	.178	.057	.296	.172	.055		
2.0	.309	.169	.052	.303	.167	.051	.291	.162	.050	.280	.157	.049	.270	.153	.048		
3.0	.281	.150	.045	.276	.148	.044	.265	.144	.044	.256	.140	.043	.247	.137	.042		
4.0	.257	.134	.039	.252	.132	.039	.243	.129	.038	.234	.126	.038	.226	.123	.037		
5.0	.236	.120	.035	.232	.119	.035	.224	.117	.034	.216	.114	.034	.209	.112	.034		
6.0	.218	.110	.031	.215	.108	.031	.207	.106	.031	.200	.104	.031	.194	.102	.030		
7.0	.203	.100	.028	.199	.099	.028	.193	.097	.028	.187	.096	.028	.181	.094	.028		
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.175	.088	.026	.169	.087	.025		
9.0	.177	.086	.024	.174	.085	.024	.169	.083	.024	.164	.082	.024	.159	.081	.023		
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.077	.022	.150	.076	.022		

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	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.175	.132	.096	.150	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.130	.079	.040	.089	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.082	.038	.124	.071	.033	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:21DEG
Operators:黄亚州
Test Date:2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: EMB-LED (DC)					TYPE:		WEIGHT:				
SPEC.:					DIM.:		SERIAL No.:2015122901				
MFR.:					SUR.:0.576		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	-0.1	1.5	0.2	1.7	1.9	3.2	4.7	3.5	5.0	5.2	
3H	1.1	2.5	1.4	2.8	3.0	4.9	6.4	5.2	6.6	6.8	
4H	1.7	3.0	2.0	3.3	3.6	5.8	7.2	6.1	7.5	7.7	
6H	2.1	3.4	2.5	3.7	4.0	6.7	8.0	7.1	8.3	8.6	
8H	2.3	3.6	2.7	3.9	4.1	7.1	8.4	7.5	8.7	9.0	
12H	2.4	3.6	2.8	3.9	4.2	7.6	8.8	7.9	9.1	9.4	
4H 2H	0.8	2.1	1.1	2.4	2.7	3.4	4.7	3.7	5.0	5.3	
3H	2.1	3.3	2.4	3.6	3.9	5.3	6.5	5.7	6.8	7.2	
4H	2.7	3.8	3.1	4.1	4.5	6.4	7.6	6.8	7.9	8.2	
6H	3.3	4.3	3.7	4.6	5.0	7.6	8.6	8.0	8.9	9.3	
8H	3.5	4.4	3.9	4.8	5.2	8.1	9.1	8.6	9.5	9.8	
12H	3.6	4.4	4.0	4.8	5.2	8.7	9.6	9.2	10.0	10.4	
8H 4H	3.3	4.2	3.7	4.6	4.9	6.5	7.5	7.0	7.8	8.2	
6H	4.0	4.8	4.4	5.2	5.6	7.9	8.7	8.3	9.1	9.5	
8H	4.3	5.0	4.7	5.4	5.8	8.6	9.3	9.1	9.8	10.2	
12H	4.5	5.1	4.9	5.5	6.0	9.4	10.0	9.9	10.5	11.0	
12H 4H	3.4	4.3	3.8	4.7	5.1	6.5	7.4	7.0	7.8	8.2	
6H	4.2	4.9	4.7	5.4	5.8	7.9	8.6	8.4	9.1	9.5	
8H	4.6	5.2	5.1	5.7	6.1	8.7	9.3	9.2	9.8	10.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					

CIE Pub.117 Corrected 98.31 lm Total Lamp Luminous Flux.(8log(F/F0) = -8.1)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:21DEG
Operators:黄亚州
Test Date:2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	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	56	44	37	55	44	37	54	44	37	30
0.80	66	54	47	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	55	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	68	82	73	67	59
2.00	93	84	78	92	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	93	87	99	92	86	94	89	84	75
4.00	105	99	94	102	97	92	98	93	90	80
5.00	107	102	98	105	100	96	100	96	93	83
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:21DEG
Operators:黄亚州
Test Date:2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	PROTECTION ANGLE:

Conical surface Flux(90deg):

50.428 lm

%lum = 51.3%

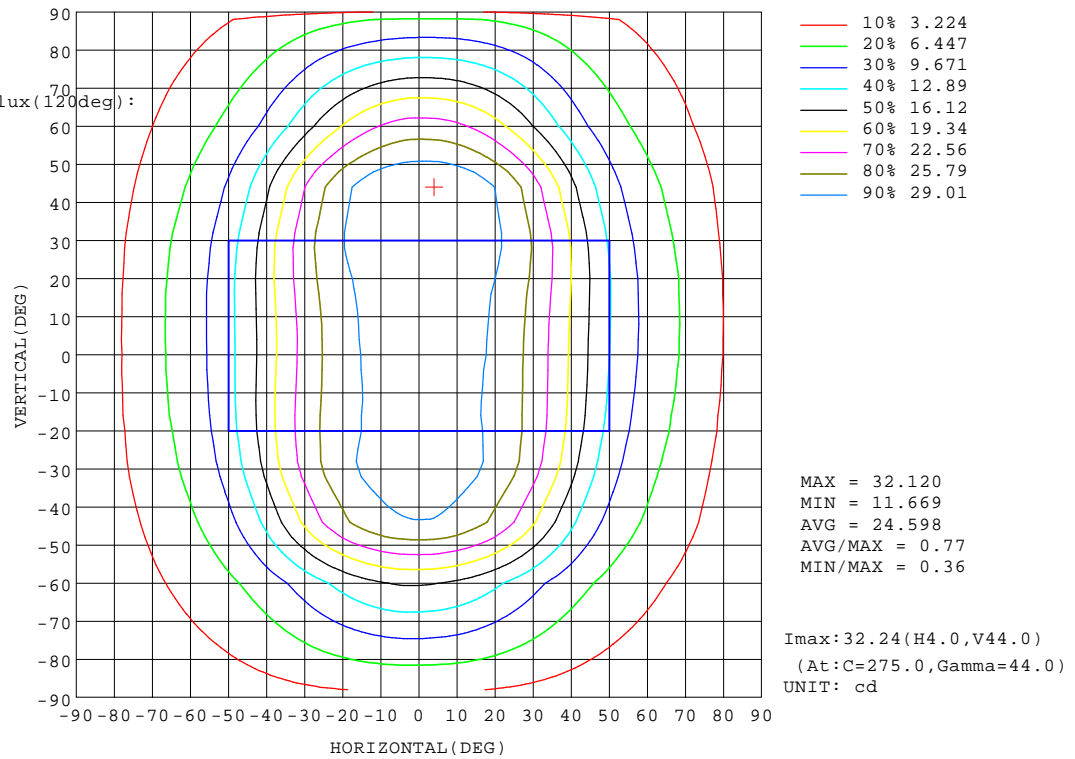
%lamp = 51.3%

Conical surface Flux(120deg):

74.545 lm

%lum = 75.8%

%lamp = 75.8%



C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature: 21DEG

Operators: 黄亚州

Test Date: 2015-12-29

g Range: 0 - 90DEG

g Interval: 0.5DEG

Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287

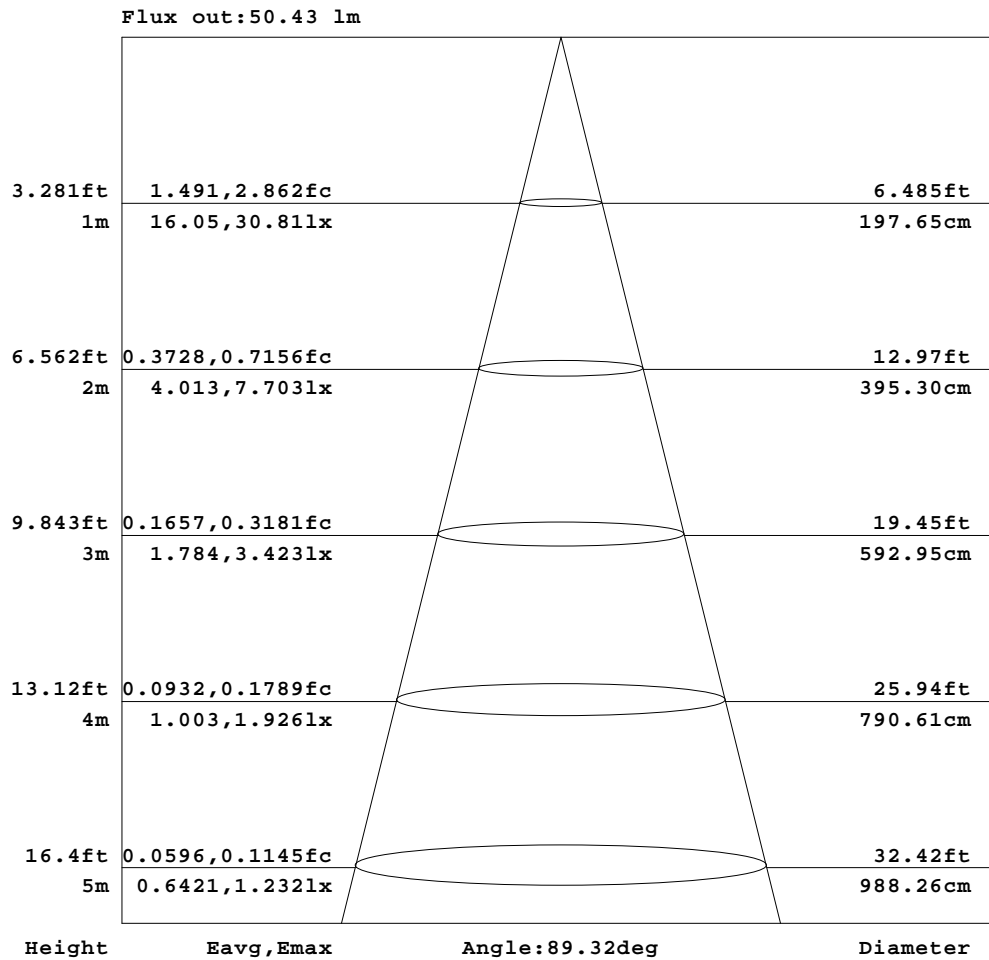
Humidity: 60.0%

Test Distance: 13.450m [K=1.0000]

Remarks:

AAI Figure

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	PROTECTION ANGLE:



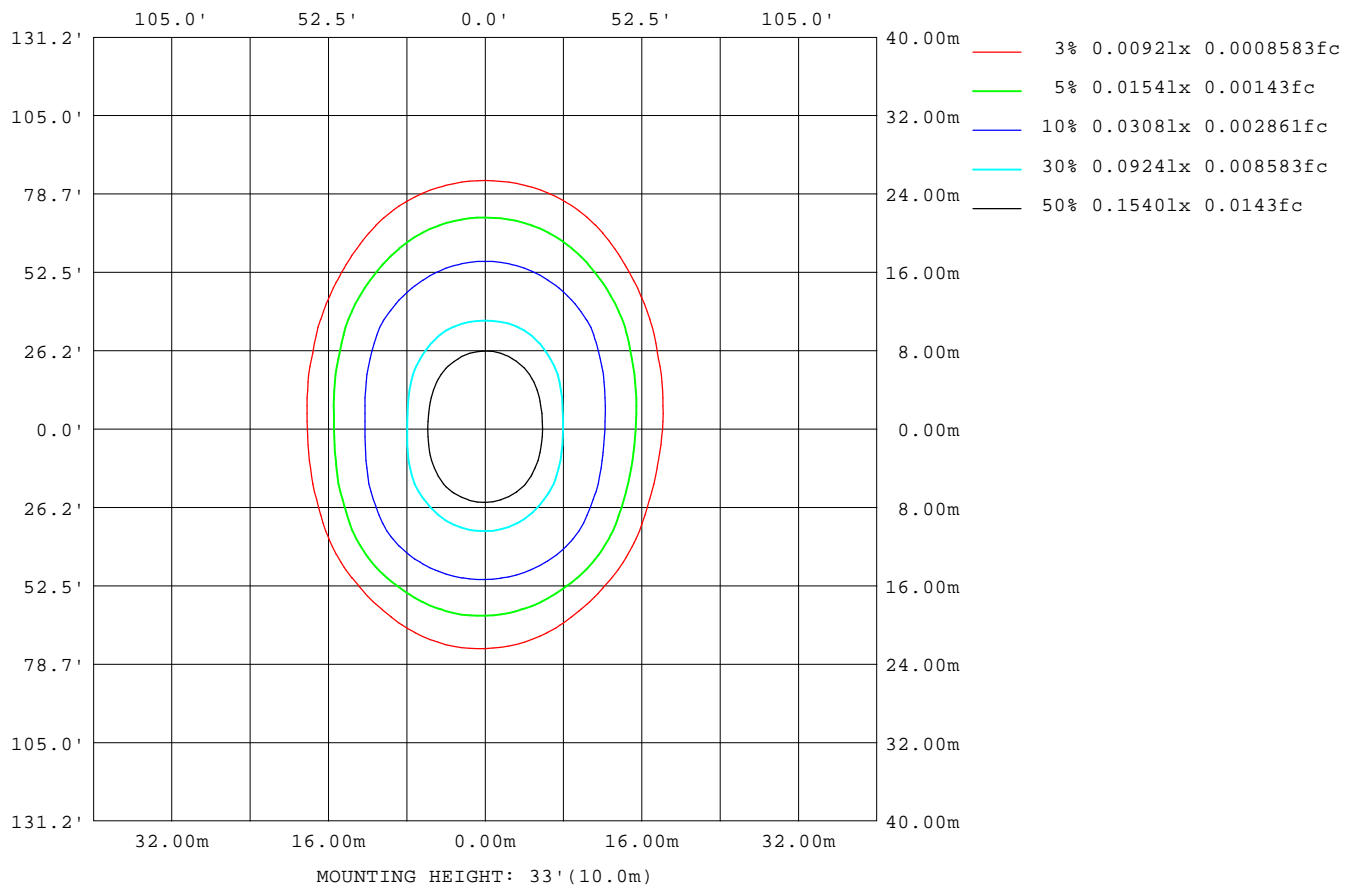
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:21DEG
Operators:黄亚州
Test Date:2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

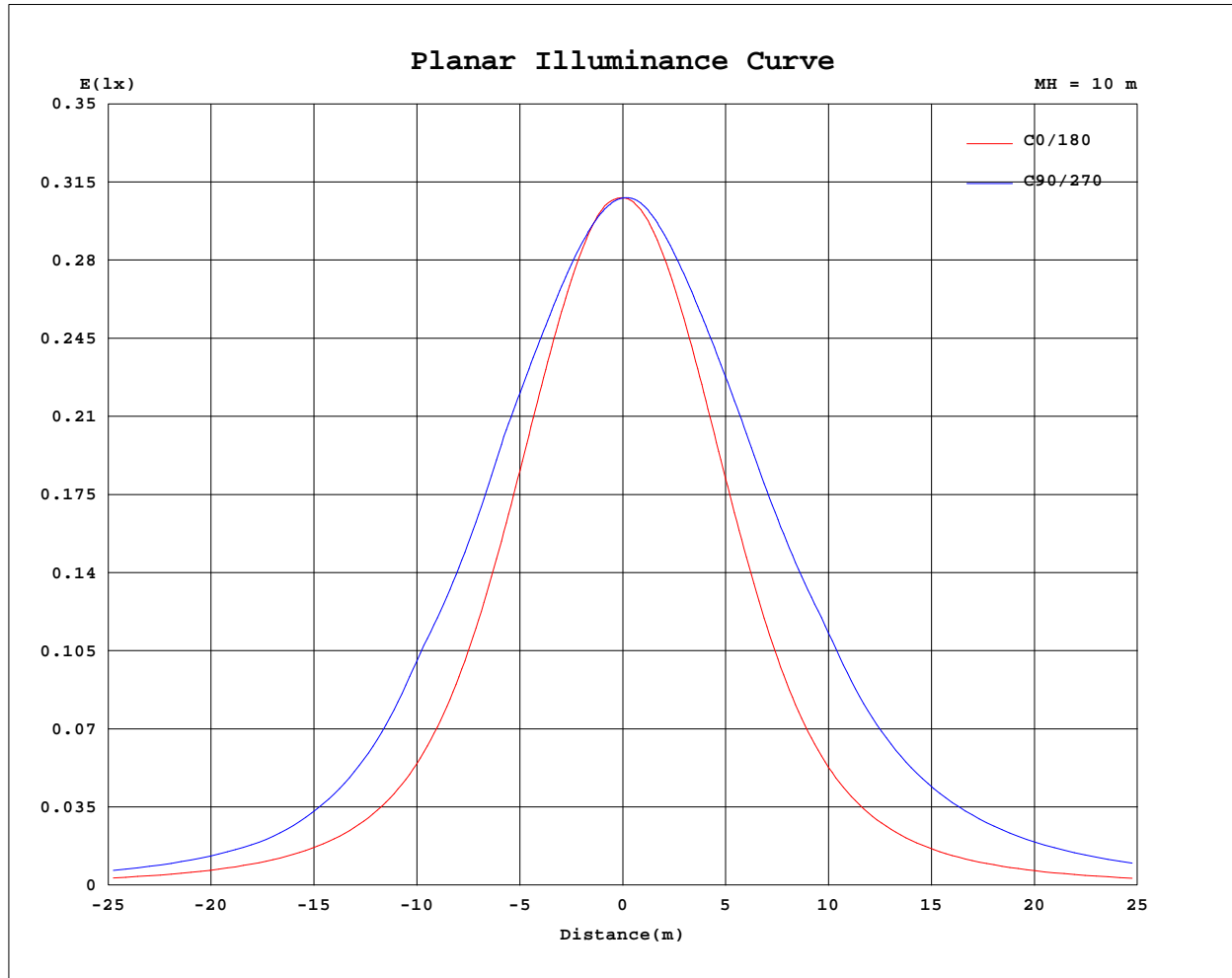
NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 21DEG
Operators: 黄亚州
Test Date: 2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 60.0%
Test Distance: 13.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 21DEG
Operators: 黄亚州
Test Date: 2015-12-29

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 60.0%
Test Distance: 13.450m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: EMB-LED (DC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2015122901
MFR.:	SUR.:0.576	PROTECTION ANGLE:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 21DEG
Operators: 黄亚州
Test Date: 2015-12-29

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Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 60.0%
Test Distance: 13.450m [K=1.0000]
Remarks:

```


C:\Documents and Settings\Administrator\桌面\EMB05-LED光曲线.GOS

