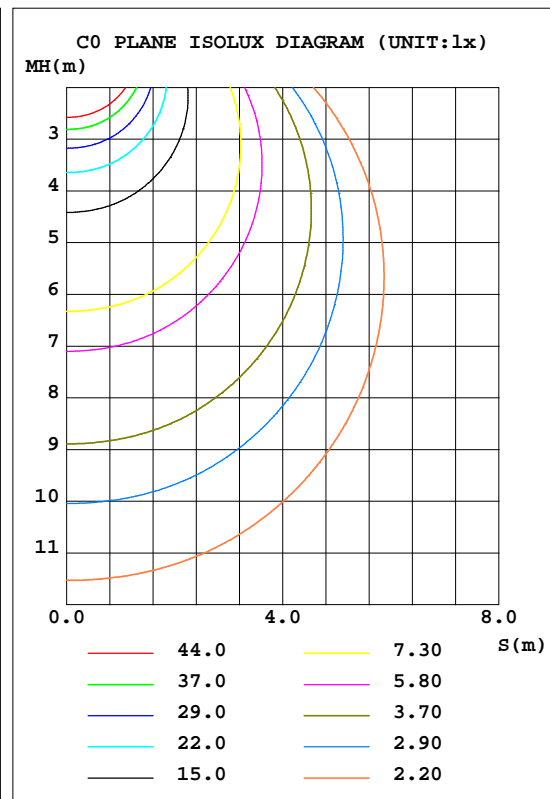
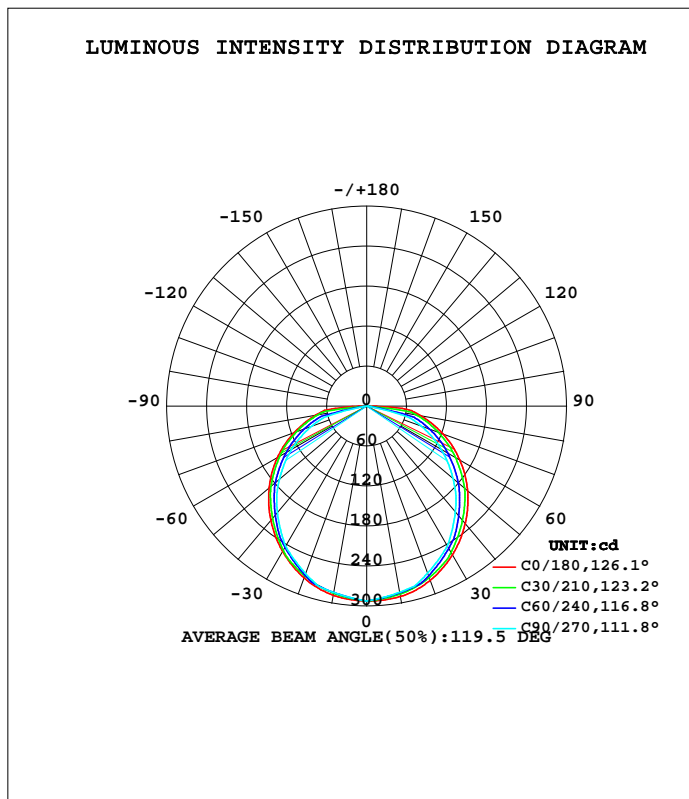


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.70 lm/W			
MODEL	YBH12W4K	I _{max} (cd)	292.5	S/MH(C0/180)	1.31
NOMINAL POWER(W)	12	LOR(%)	113.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	903.69	η UP, DN(C0-180)	0.0, 56.3
NOMINAL FLUX(lm)	800	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 56.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.8	η down(%)	113.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: FHX
 Test Date: 2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 14.690m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	$\$lum, lamp$
5	292.0	289.2	288.1	288.6	291.2	288.7	288.2	289.3	0- 5	6.943	6.943	0.77,0.87
10	290.2	285.4	283.8	284.1	288.2	284.4	284.1	285.6	5- 10	20.55	27.49	3.04,3.44
15	285.8	280.6	279.5	278.6	282.6	279.1	279.9	280.8	10- 15	33.56	61.05	6.76,7.63
20	278.5	274.4	267.1	271.9	274.6	272.6	267.7	274.8	15- 20	45.52	106.6	11.8,13.3
25	268.9	262.5	254.7	259.5	264.1	260.3	255.5	262.9	20- 25	55.80	162.4	18,20.3
30	257.6	249.1	242.3	245.5	252.3	246.6	243.3	249.6	25- 30	64.35	226.7	25.1,28.3
35	244.6	235.4	224.7	231.3	238.7	232.6	225.9	236.0	30- 35	70.96	297.7	32.9,37.2
40	230.1	221.1	207.2	216.5	223.8	218.1	208.6	221.8	35- 40	75.30	373.0	41.3,46.6
45	214.5	203.1	189.6	198.5	208.0	200.4	191.2	204.0	40- 45	77.52	450.5	49.9,56.3
50	197.8	185.2	169.3	180.7	191.1	182.9	171.0	186.2	45- 50	77.64	528.1	58.4,66
55	180.1	167.4	149.1	163.1	173.5	165.6	150.7	168.7	50- 55	75.56	603.7	66.8,75.5
60	161.3	147.4	128.8	143.0	154.9	145.5	130.5	148.5	55- 60	71.53	675.2	74.7,84.4
65	141.8	127.7	107.7	123.3	135.4	125.7	109.1	128.8	60- 65	65.70	740.9	82,92.6
70	121.6	107.9	86.52	103.6	115.5	106.0	87.67	108.9	65- 70	58.26	799.2	88.4,99.9
75	101.3	87.77	65.38	83.91	95.78	86.15	66.25	88.59	70- 75	49.56	848.7	93.9,106
80	81.83	56.64	0	53.89	77.09	55.63	0	57.19	75- 80	36.05	884.8	97.9,111
85	60.55	0	0	0	52.82	0	0	0	80- 85	15.73	900.5	99.6,113
90	8.626	0	0	0	6.228	0	0	0	85- 90	3.167	903.7	100,113
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			

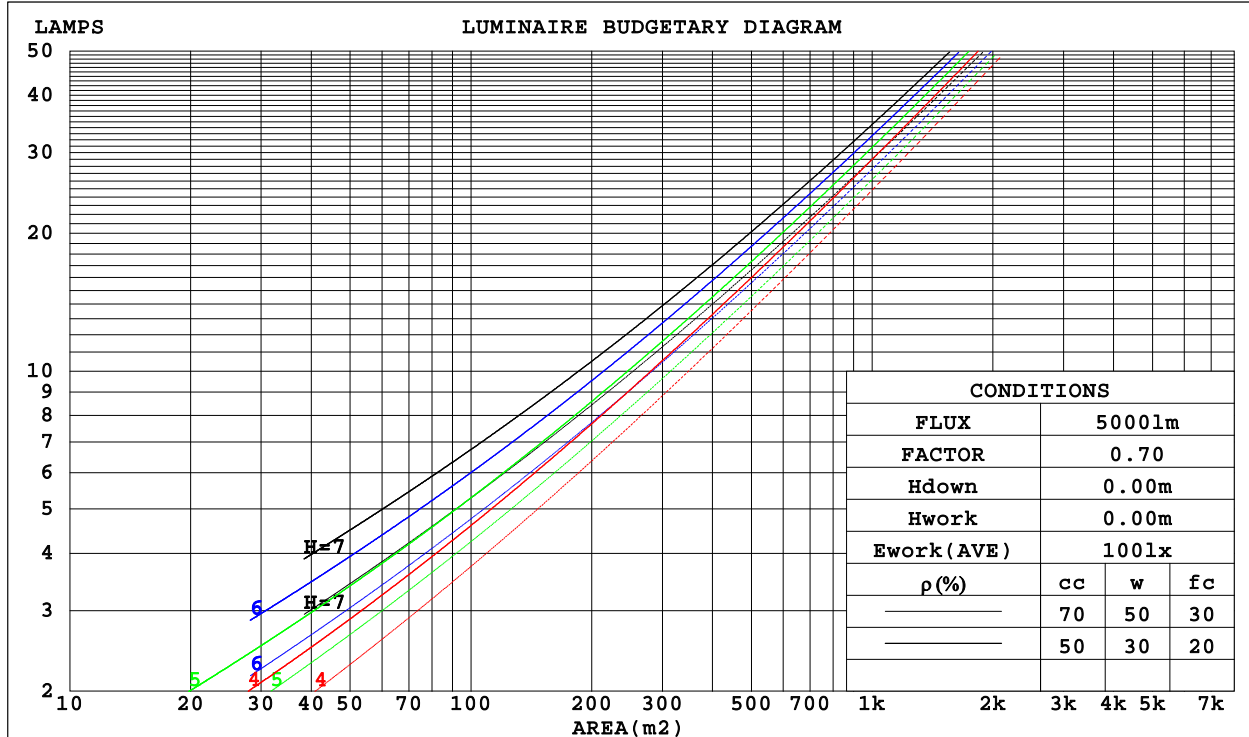
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.34	1.34	1.34	1.31	1.31	1.31	1.26	1.26	1.26	1.20	1.20	1.20	1.15	1.15	1.15	1.13
1.0	1.16	1.11	1.06	1.14	1.09	1.05	1.09	1.05	1.01	1.04	1.01	.98	1.00	.98	.95	.93
2.0	1.00	.92	.85	.98	.91	.84	.94	.88	.82	.90	.85	.80	.87	.82	.79	.76
3.0	.87	.78	.70	.86	.77	.69	.82	.75	.68	.79	.72	.67	.76	.71	.66	.63
4.0	.77	.67	.59	.76	.66	.58	.73	.64	.58	.70	.63	.57	.68	.61	.56	.53
5.0	.69	.58	.50	.67	.57	.50	.65	.56	.49	.63	.55	.49	.61	.54	.48	.46
6.0	.62	.51	.44	.61	.51	.43	.58	.50	.43	.57	.49	.43	.55	.48	.42	.40
7.0	.56	.46	.38	.55	.45	.38	.53	.44	.38	.51	.44	.38	.50	.43	.37	.35
8.0	.51	.41	.34	.50	.41	.34	.49	.40	.34	.47	.39	.34	.46	.39	.33	.31
9.0	.47	.37	.31	.46	.37	.31	.45	.36	.30	.43	.36	.30	.42	.35	.30	.28
10.0	.43	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.27	.39	.32	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.371	.211	.067	.363	.207	.066	.348	.200	.064	.334	.193	.062	.321	.186	.060	
2.0	.347	.190	.058	.340	.187	.058	.327	.182	.056	.314	.176	.055	.303	.171	.054	
3.0	.319	.170	.051	.312	.167	.050	.301	.163	.050	.290	.159	.049	.279	.155	.048	
4.0	.292	.152	.045	.287	.150	.044	.276	.146	.044	.266	.143	.043	.257	.140	.043	
5.0	.269	.137	.040	.264	.135	.039	.254	.132	.039	.246	.130	.039	.238	.127	.038	
6.0	.248	.124	.036	.244	.123	.035	.235	.121	.035	.228	.118	.035	.220	.116	.034	
7.0	.230	.114	.032	.226	.113	.032	.219	.111	.032	.212	.109	.032	.205	.107	.031	
8.0	.214	.105	.029	.211	.104	.029	.204	.102	.029	.198	.100	.029	.192	.099	.029	
9.0	.200	.097	.027	.197	.096	.027	.191	.095	.027	.186	.093	.027	.180	.092	.026	
10.0	.188	.090	.025	.185	.089	.025	.180	.088	.025	.175	.087	.025	.170	.086	.025	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.215	.215	.215	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.205	.176	.150	.176	.151	.129	.120	.104	.089	.069	.060	.052	.022	.019	.017	
2.0	.197	.149	.109	.169	.128	.094	.116	.089	.065	.067	.052	.038	.021	.017	.013	
3.0	.188	.129	.082	.162	.111	.071	.111	.077	.050	.064	.045	.029	.021	.015	.010	
4.0	.180	.114	.064	.154	.099	.056	.106	.069	.039	.061	.040	.023	.020	.013	.008	
5.0	.171	.103	.052	.147	.089	.045	.101	.062	.032	.059	.036	.019	.019	.012	.006	
6.0	.163	.093	.043	.140	.081	.038	.097	.057	.027	.056	.033	.016	.018	.011	.005	
7.0	.155	.085	.037	.133	.074	.032	.092	.052	.023	.054	.031	.014	.017	.010	.004	
8.0	.148	.079	.032	.127	.068	.028	.088	.048	.020	.051	.028	.012	.017	.009	.004	
9.0	.141	.073	.028	.121	.064	.024	.084	.045	.017	.049	.026	.010	.016	.009	.003	
10.0	.134	.069	.025	.115	.059	.022	.080	.042	.015	.047	.025	.009	.015	.008	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm										
NAME: YBH12W4K					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:		
MFR.: JNC					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	17.1	18.7	17.4	18.9	19.1	16.2	17.8	16.5	18.0	18.2
3H	19.2	20.7	19.5	20.9	21.2	17.9	19.4	18.2	19.6	19.9
4H	20.3	21.7	20.6	21.9	22.2	18.7	20.1	19.0	20.3	20.6
6H	21.4	22.7	21.7	23.0	23.3	18.8	20.1	19.1	20.3	20.6
8H	21.9	23.2	22.3	23.5	23.8	18.7	20.0	19.1	20.3	20.6
12H	22.5	23.7	22.8	24.0	24.3	18.7	19.9	19.0	20.2	20.5
4H 2H	17.8	19.1	18.1	19.4	19.7	17.1	18.5	17.4	18.7	19.0
3H	20.1	21.3	20.5	21.6	21.9	19.0	20.3	19.4	20.5	20.9
4H	21.3	22.5	21.7	22.8	23.1	19.9	21.1	20.3	21.4	21.7
6H	22.6	23.6	23.0	24.0	24.4	20.1	21.1	20.5	21.4	21.8
8H	23.3	24.2	23.7	24.6	25.0	20.0	21.0	20.4	21.3	21.7
12H	23.9	24.8	24.4	25.2	25.6	20.0	20.8	20.4	21.2	21.6
8H 4H	21.7	22.7	22.1	23.0	23.4	20.5	21.5	21.0	21.8	22.2
6H	23.3	24.0	23.7	24.5	24.9	20.8	21.5	21.2	21.9	22.4
8H	24.1	24.8	24.6	25.2	25.7	20.7	21.4	21.2	21.8	22.3
12H	25.0	25.6	25.5	26.0	26.5	20.7	21.3	21.2	21.7	22.2
12H 4H	21.7	22.6	22.1	23.0	23.4	20.7	21.5	21.1	21.9	22.3
6H	23.3	24.0	23.7	24.4	24.8	20.9	21.6	21.4	22.0	22.5
8H	24.2	24.7	24.6	25.2	25.7	20.9	21.5	21.4	21.9	22.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.6				

CIE Pub.117 Corrected 800.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.8)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

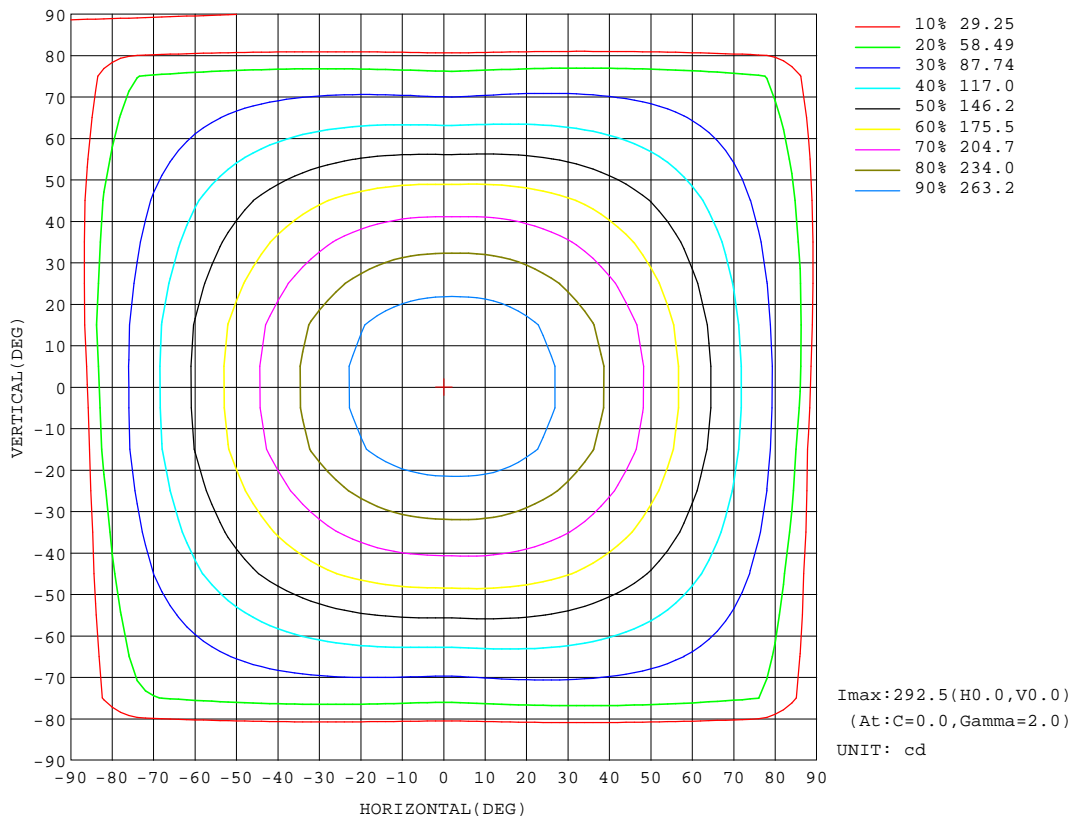
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	63	50	42	62	49	41	61	49	41	34
0.80	74	61	52	73	60	52	71	59	51	43
1.00	84	70	62	82	70	62	80	72	61	53
1.25	92	79	71	90	78	70	87	77	69	61
1.50	97	86	77	95	85	77	92	83	76	67
2.00	105	95	87	103	94	87	99	91	85	76
2.50	110	101	94	108	99	93	103	96	90	81
3.00	114	106	99	112	104	98	107	101	96	86
4.00	119	112	107	116	110	105	111	106	102	92
5.00	122	116	111	119	114	109	114	110	106	96
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:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:



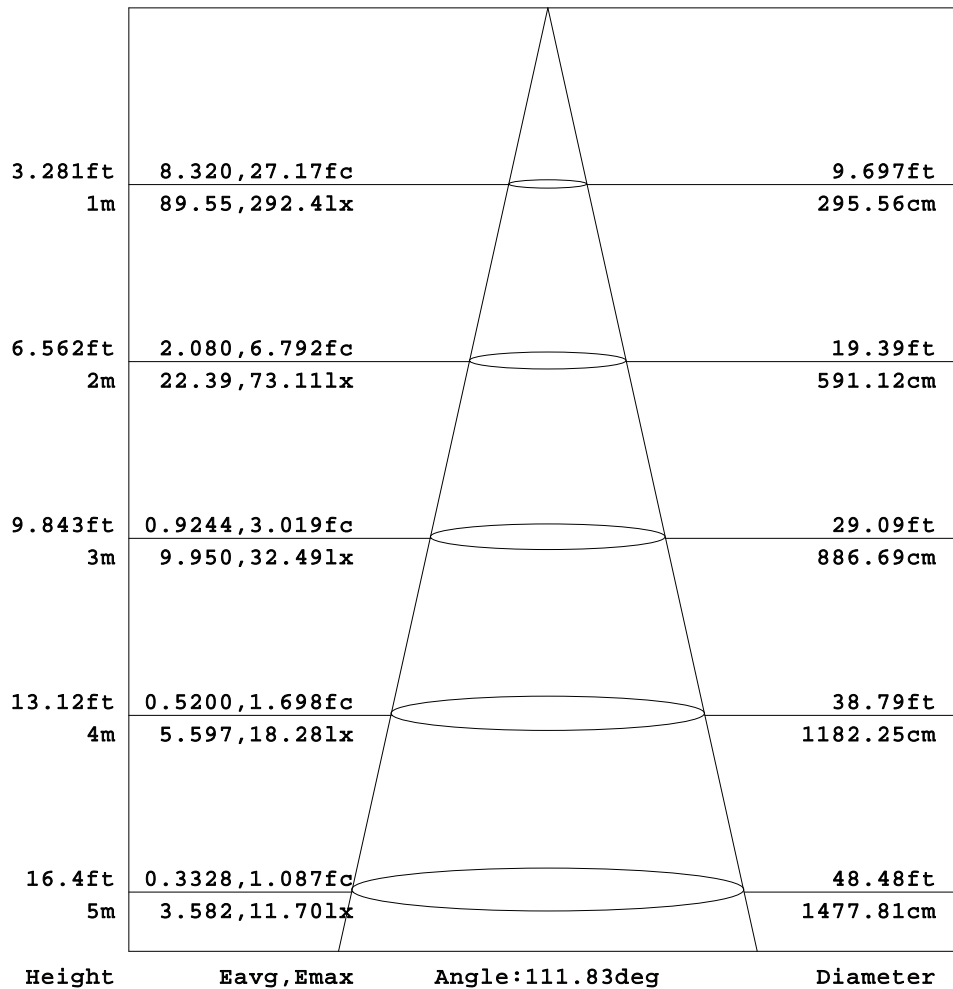
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

Flux out:618.4 lm



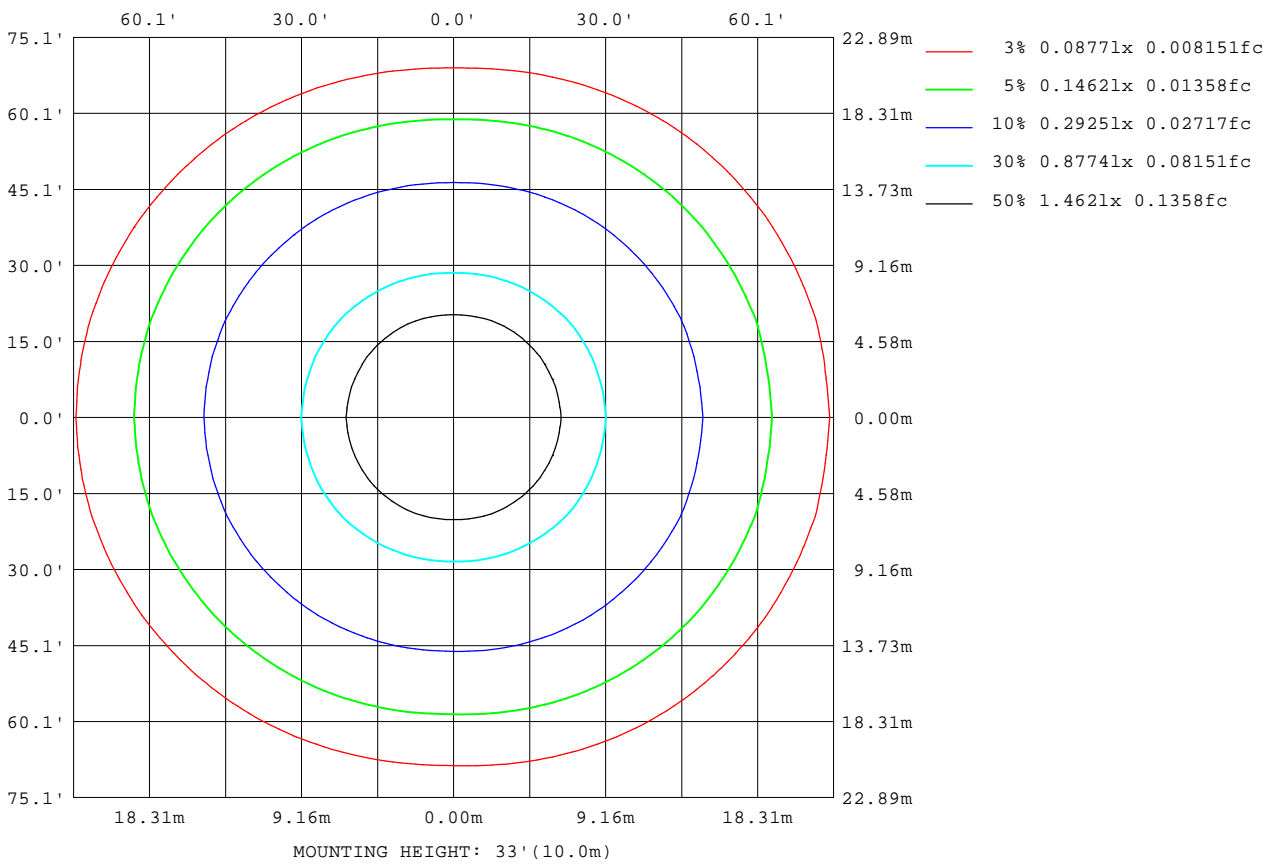
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: FHX
 Test Date: 2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 14.690m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

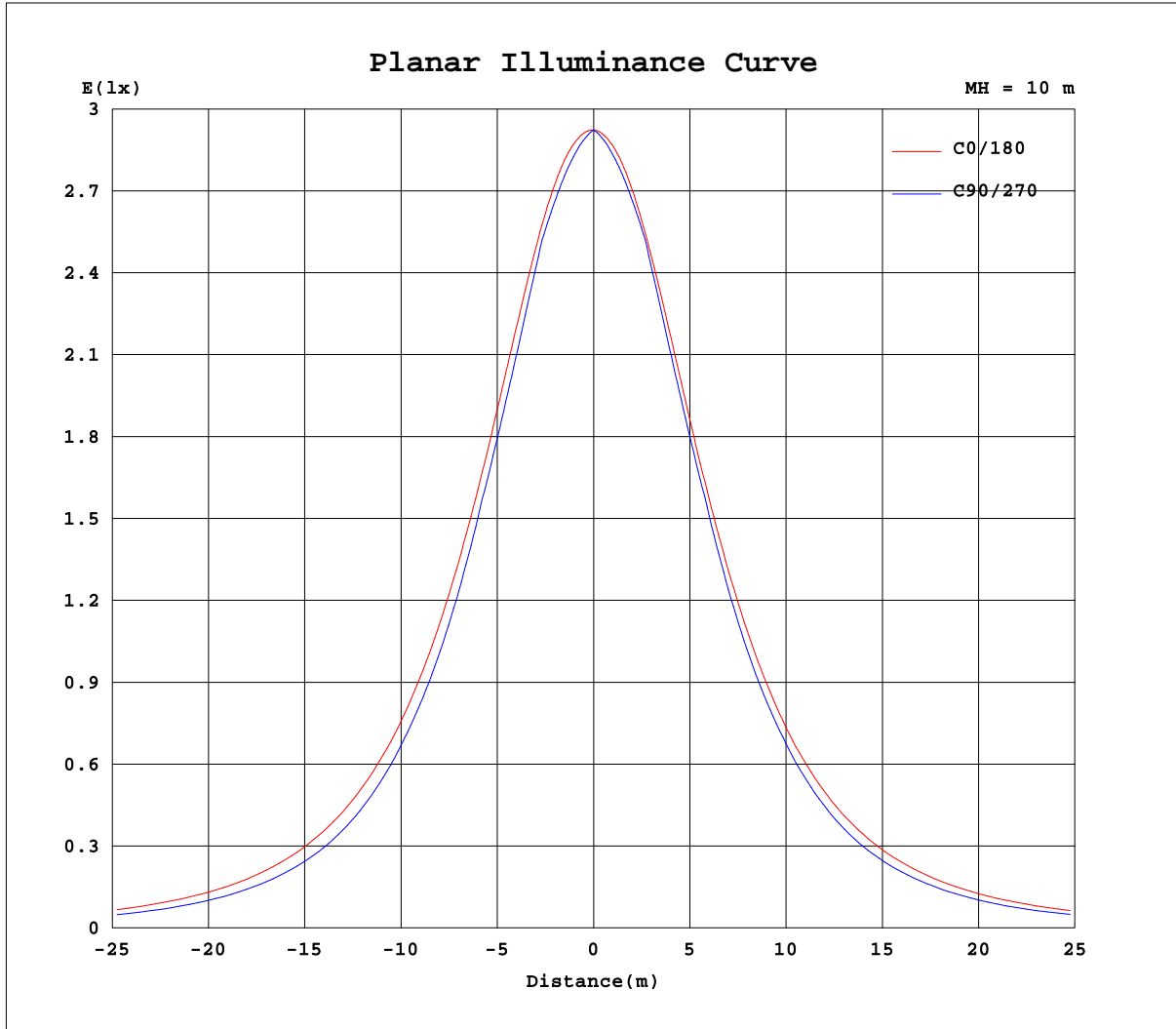
Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: FHX
 Test Date: 2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 14.690m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: FHX
 Test Date: 2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 14.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292
5	292	292	291	291	291	290	290	290	289	289	289	289	289	289	288	288	288	288	288
10	290	290	289	288	288	287	287	286	286	285	285	285	285	284	284	284	284	284	284
15	286	285	284	283	282	282	281	281	281	281	280	280	280	280	280	280	280	280	279
20	278	277	276	275	275	274	274	274	274	274	274	273	271	270	269	268	268	267	267
25	269	267	266	265	265	265	265	266	264	262	261	260	259	258	257	256	256	255	255
30	258	256	255	254	254	254	254	252	250	249	248	247	246	246	245	244	243	243	242
35	245	243	242	241	242	241	239	237	236	235	235	234	232	231	229	228	226	225	225
40	230	228	227	227	227	225	224	223	222	221	219	217	215	213	212	210	209	208	207
45	214	212	212	212	210	209	208	208	205	203	201	199	197	196	194	193	191	190	190
50	198	196	195	195	193	193	192	189	187	185	183	182	180	177	175	173	172	170	169
55	180	178	178	177	176	175	173	171	169	167	165	162	160	158	155	153	152	150	149
60	161	159	159	158	158	155	154	152	150	147	145	143	140	138	136	133	131	130	129
65	142	140	140	139	137	136	134	132	130	128	126	123	121	118	115	113	111	109	108
70	122	120	120	119	118	116	114	112	110	108	105	103	100	97.5	94.7	92.1	89.8	87.8	86.5
75	101	99.9	99.9	98.7	97.4	96.1	94.5	92.5	90.2	87.8	85.2	82.5	79.7	77.0	74.2	71.4	68.9	66.7	65.4
80	81.8	81.1	80.3	79.5	78.5	77.0	75.2	73.0	70.5	56.6	42.4	30.9	21.7	14.4	8.87	4.80	2.05	0.50	0.00
85	60.5	47.3	58.1	62.4	53.7	21.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	8.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292
5	288	288	288	288	288	288	288	288	289	289	289	289	290	290	290	290	291	291	291
10	284	284	284	284	284	284	284	284	284	284	285	285	285	286	286	287	288	288	288
15	279	279	279	279	279	279	279	279	279	279	279	279	279	280	280	281	282	283	282
20	267	267	268	268	269	270	270	272	272	271	271	271	271	271	272	272	273	275	273
25	255	255	255	256	256	257	257	258	259	261	262	262	261	261	261	262	263	264	263
30	242	242	243	243	243	244	244	245	246	247	248	250	250	249	249	250	251	252	251
35	225	225	226	227	228	229	231	231	231	232	233	234	236	237	236	236	237	239	237
40	207	208	209	210	211	212	213	215	216	217	218	219	220	222	222	222	222	224	222
45	190	190	191	192	193	194	196	197	199	200	202	203	203	205	207	206	206	208	207
50	170	171	172	173	175	177	178	180	181	182	184	186	187	188	189	190	190	191	190
55	149	150	152	153	155	157	159	161	163	164	165	167	169	170	171	173	172	173	172
60	129	130	132	133	135	137	139	141	143	145	148	148	150	152	152	154	154	155	154
65	108	110	111	113	115	117	119	121	123	125	127	130	131	132	133	134	135	135	135
70	87.2	88.6	90.5	92.6	94.8	97.0	99.3	101	104	106	107	109	111	113	113	114	115	116	116
75	66.1	67.7	69.8	72.1	74.5	76.9	79.3	81.7	83.9	86.0	87.9	89.6	91.1	92.5	94.0	94.4	95.5	95.8	96.2
80	0.49	2.02	4.68	8.61	13.9	20.8	29.6	40.5	53.9	67.0	69.2	71.1	72.8	74.0	75.0	76.2	76.5	77.1	77.4
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.6	51.0	59.2	52.5	43.2	52.8	60.3
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.23	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292
5	290	290	290	290	289	289	289	289	289	288	288	288	288	288	288	288	288	288	288
10	287	286	286	285	285	285	285	284	284	284	284	284	284	284	284	284	284	284	284
15	281	280	280	279	279	279	279	279	279	279	279	279	279	280	280	280	280	280	280
20	272	272	271	271	271	272	272	273	272	271	270	269	269	268	268	268	268	268	268
25	262	261	261	262	262	263	262	260	259	258	258	257	257	256	256	256	255	256	256
30	250	250	250	251	250	249	247	247	246	245	245	245	244	244	243	243	243	244	244
35	236	237	237	237	235	234	233	233	232	232	231	230	229	227	227	226	226	226	227
40	222	222	223	221	220	219	219	218	216	215	213	212	211	210	209	209	209	209	210
45	207	208	206	205	204	204	202	200	199	198	196	195	194	193	192	191	191	192	193
50	190	190	189	188	188	186	184	183	182	181	179	177	175	174	172	171	171	172	173
55	174	172	171	171	169	168	167	166	163	161	159	157	155	154	152	151	151	151	153
60	155	153	153	151	150	150	148	146	143	141	139	138	136	134	132	131	131	131	133
65	135	135	133	133	132	130	128	126	124	122	120	117	115	113	111	110	109	110	112
70	115	115	114	113	111	110	108	106	104	102	99.2	96.9	94.5	92.3	90.3	88.6	87.7	88.5	90.4
75	95.6	95.8	94.6	93.3	92.0	90.3	88.3	86.2	83.9	81.4	78.9	76.4	73.8	71.4	69.2	67.2	66.2	67.2	69.2
80	77.7	76.9	76.1	75.1	73.5	71.5	69.2	55.6	41.7	30.5	21.4	14.3	8.82	4.80	2.06	0.50	0.00	0.50	2.07
85	60.7	61.4	52.9	21.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.7V I:0.0587A P:11.94W PF:0.8808 Lamp Flux:800x1 lm		
NAME: YBH12W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: JNC	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292				
5	288	289	289	289	289	289	289	290	290	290	290	291	291	291	292				
10	284	284	285	285	285	285	286	286	286	287	287	288	288	289	290				
15	280	280	280	280	281	281	281	281	281	281	282	282	283	284	285				
20	269	270	271	272	273	274	275	274	274	274	274	275	275	276	277				
25	257	258	259	260	261	262	263	264	266	265	265	265	265	266	267				
30	245	246	246	247	248	249	250	251	252	254	254	254	254	255	256				
35	228	230	232	233	235	235	236	237	238	239	241	242	241	242	243				
40	211	213	214	216	218	220	222	223	223	224	225	227	227	227	228				
45	194	196	197	198	200	202	204	206	209	209	209	211	213	212	213				
50	175	177	179	181	183	185	186	188	190	193	193	194	195	196	196				
55	155	157	159	161	164	166	169	170	172	173	176	176	177	178	178				
60	135	137	139	142	144	146	149	151	153	155	156	159	159	160	160				
65	114	116	119	122	124	127	129	131	133	135	137	138	140	140	140				
70	92.8	95.5	98.2	101	104	106	109	111	113	115	117	118	119	120	121				
75	71.8	74.6	77.5	80.4	83.2	86.0	88.6	91.1	93.4	95.4	97.0	98.2	99.4	100	100				
80	4.82	8.92	14.5	21.9	31.1	42.7	57.2	71.3	73.8	76.0	77.9	79.4	80.3	80.9	81.5				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.0	54.5	63.4	63.4	63.0				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FHX
 Test Date:2015-09-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:14.690m [K=1.0000]
 Remarks: