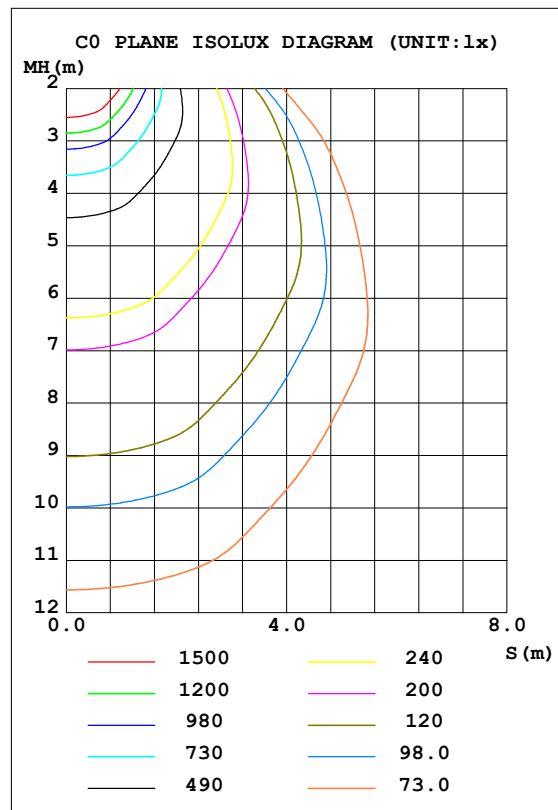
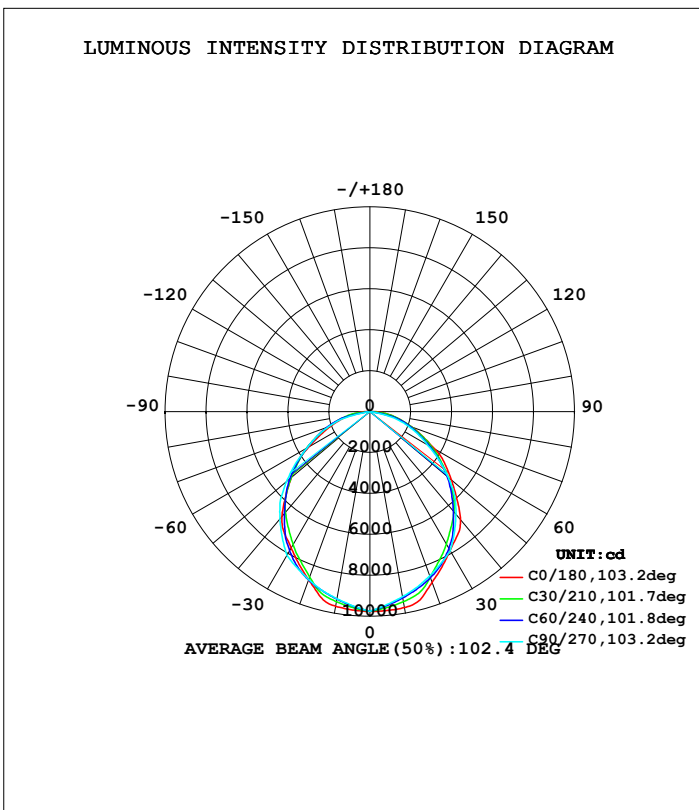


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3030	Imax (cd)	9760	S/MH (C0/180)	1.18
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	24489	η UP, DN (C0-180)	0.0, 49.1
NOMINAL FLUX (lm)	24489	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators: VISION
 Test Date: 2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.256m [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	9755	9552	9471	9534	9725	9570	9522	9588	0- 5	230.5	230.5	0.94,0.94
10	9721	9321	9182	9279	9655	9351	9285	9390	5- 10	677.6	908.2	3.71,3.71
15	9512	9068	8893	9002	9366	9117	9047	9162	10- 15	1098	2006	8.19,8.19
20	8885	8726	8546	8641	8747	8784	8736	8883	15- 20	1466	3472	14.2,14.2
25	8356	8078	8199	7997	8210	8143	8424	8278	20- 25	1767	5239	21.4,21.4
30	7838	7480	7853	7382	7696	7554	8113	7671	25- 30	2008	7247	29.6,29.6
35	7437	6922	7197	6803	7276	7000	7477	7114	30- 35	2183	9430	38.5,38.5
40	6894	6356	6542	6219	6693	6441	6840	6546	35- 40	2279	11709	47.8,47.8
45	6007	5664	5886	5529	5808	5762	6203	5856	40- 45	2284	13994	57.1,57.1
50	5212	4953	5006	4838	5018	5070	5317	5171	45- 50	2192	16185	66.1,66.1
55	4495	4210	4126	4115	4305	4340	4431	4445	50- 55	2020	18206	74.3,74.3
60	3651	3480	3246	3377	3432	3594	3544	3685	55- 60	1794	20000	81.7,81.7
65	2824	2790	2576	2683	2638	2889	2839	2983	60- 65	1513	21513	87.8,87.8
70	2138	2144	1906	2044	1971	2233	2133	2324	65- 70	1230	22743	92.9,92.9
75	1540	1546	1235	1465	1424	1627	1427	1701	70- 75	940.4	23683	96.7,96.7
80	1031	839.8	0	791.2	941.2	901.9	0	948.6	75- 80	589.2	24272	99.1,99.1
85	596.2	0	0	0	525.1	0	0	0	80- 85	188.0	24460	99.9,99.9
90	112.2	0	0	0	167.1	0	0	0	85- 90	28.41	24489	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 MAX (Ii - Iavg)/Iavg (0-135) = 100.0 %									UNIT:lm		

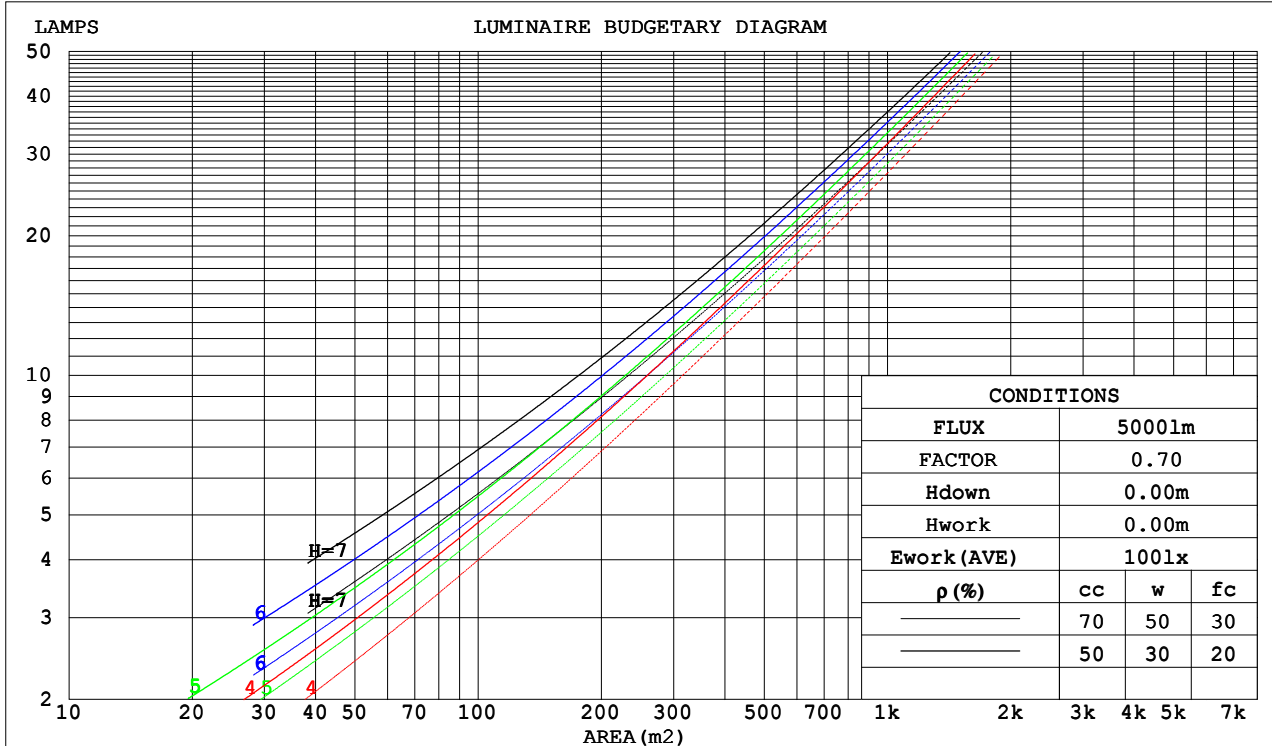
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:VISION
 Test Date:2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.256m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	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						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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.39	.32	.28	.38	.32	.28	.26



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:VISION
 Test Date:2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.256m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	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	.291	.165	.052	.284	.162	.051	.271	.155	.050	.259	.149	.048	.247	.143	.046	
2.0	.278	.153	.047	.272	.150	.046	.261	.145	.045	.250	.140	.044	.240	.136	.043	
3.0	.260	.138	.041	.254	.136	.041	.244	.132	.040	.235	.129	.039	.226	.125	.039	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.219	.117	.035	.211	.115	.035	
5.0	.224	.114	.033	.220	.113	.033	.211	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.191	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.023	
10.0	.161	.077	.021	.158	.076	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:VISION
 Test Date:2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.256m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm										
NAME: BT-MG300W					TYPE:5700K			WEIGHT:10Kg		
SPEC.:6*1					DIM.: 456*305*185mm			SERIAL No.:		
MFR.: EVERFINE					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	26.6	28.0	26.8	28.2	28.4	26.3	27.7	26.5	27.9	28.1
3H	27.9	29.3	28.2	29.5	29.7	27.5	28.9	27.8	29.1	29.3
4H	28.5	29.8	28.8	30.0	30.3	28.0	29.3	28.3	29.5	29.8
6H	28.9	30.2	29.3	30.4	30.7	28.0	29.2	28.3	29.5	29.8
8H	29.1	30.3	29.4	30.5	30.8	27.9	29.1	28.3	29.4	29.7
12H	29.2	30.3	29.5	30.6	30.9	27.9	29.0	28.2	29.3	29.6
4H 2H	27.1	28.4	27.4	28.6	28.9	26.9	28.2	27.2	28.4	28.7
3H	28.6	29.8	29.0	30.1	30.4	28.3	29.5	28.7	29.8	30.1
4H	29.4	30.4	29.7	30.7	31.0	28.9	29.9	29.3	30.3	30.6
6H	30.0	30.9	30.4	31.2	31.6	29.0	29.9	29.4	30.2	30.6
8H	30.2	31.0	30.6	31.4	31.8	28.9	29.8	29.3	30.2	30.5
12H	30.3	31.1	30.7	31.5	31.9	28.9	29.7	29.3	30.1	30.5
8H 4H	29.6	30.5	30.0	30.9	31.2	29.2	30.1	29.6	30.4	30.8
6H	30.4	31.1	30.9	31.5	31.9	29.4	30.1	29.8	30.5	30.9
8H	30.7	31.3	31.2	31.8	32.2	29.3	29.9	29.8	30.4	30.8
12H	31.0	31.5	31.5	32.0	32.4	29.3	29.8	29.8	30.3	30.7
12H 4H	29.6	30.4	30.0	30.8	31.2	29.3	30.0	29.7	30.4	30.8
6H	30.4	31.0	30.9	31.5	31.9	29.4	30.0	29.9	30.4	30.9
8H	30.7	31.3	31.2	31.7	32.2	29.4	29.9	29.8	30.3	30.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 24489 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.1)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:VISION
 Test Date:2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.256m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

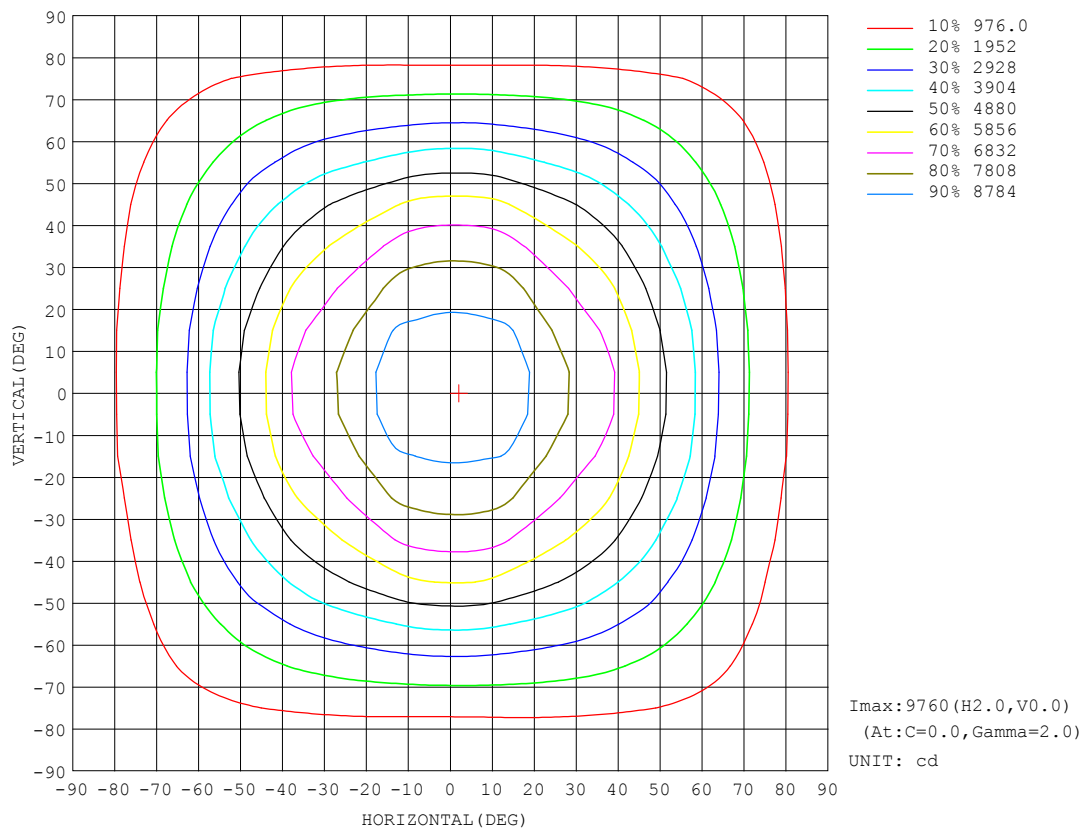
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	59	48	41	57	47	41	35
0.80	69	58	51	68	58	51	67	57	50	44
1.00	78	67	60	77	67	60	74	68	59	52
1.25	85	75	68	83	74	67	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	100	103	99	96	87
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:VISION
 Test Date:2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.256m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

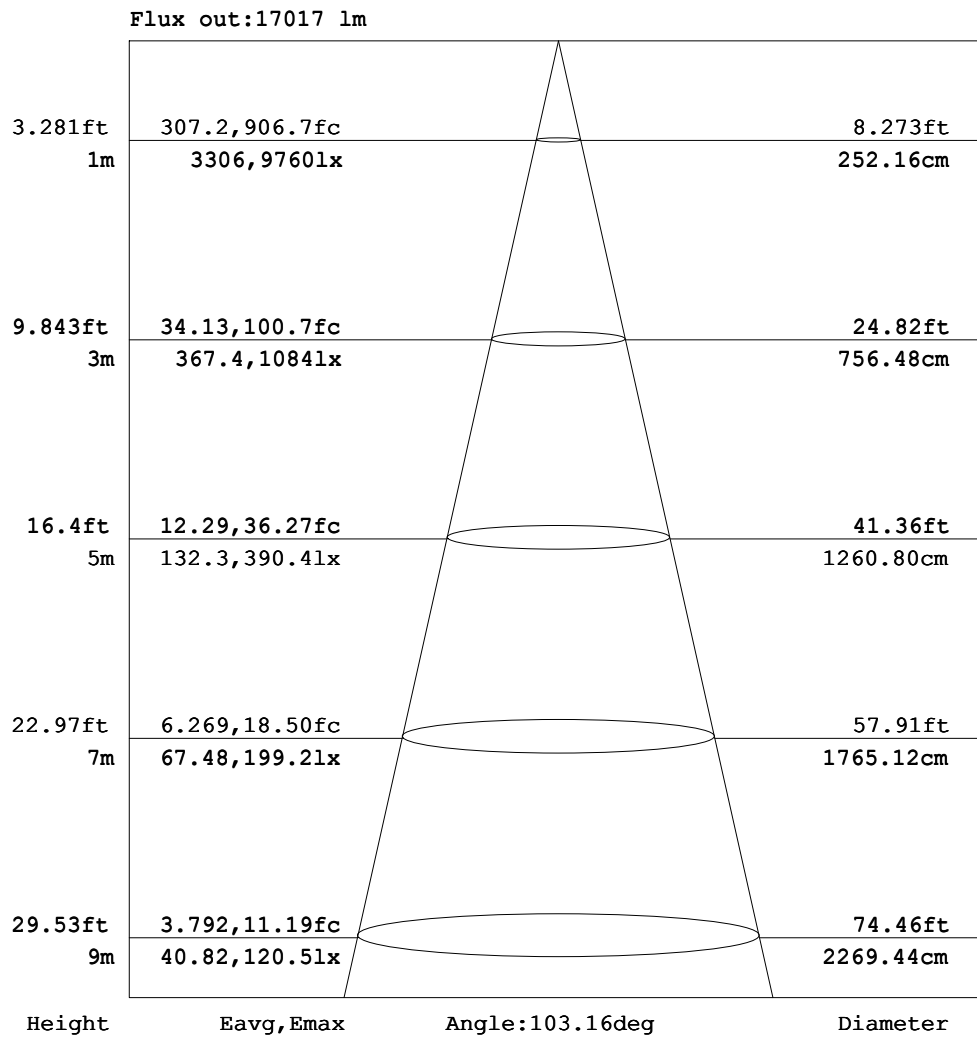


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: VISION
Test Date: 2014-11-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.256m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



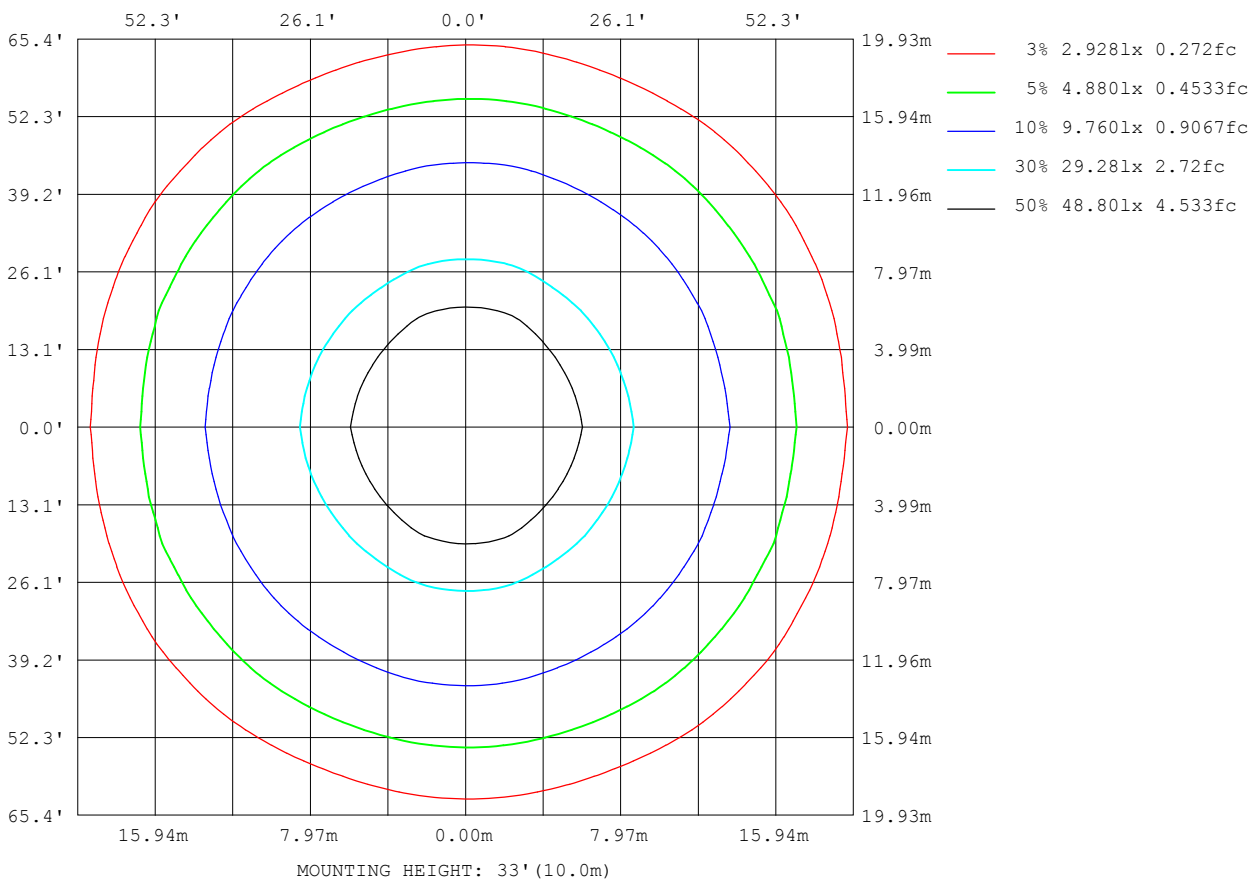
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: VISION
Test Date: 2014-11-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.256m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

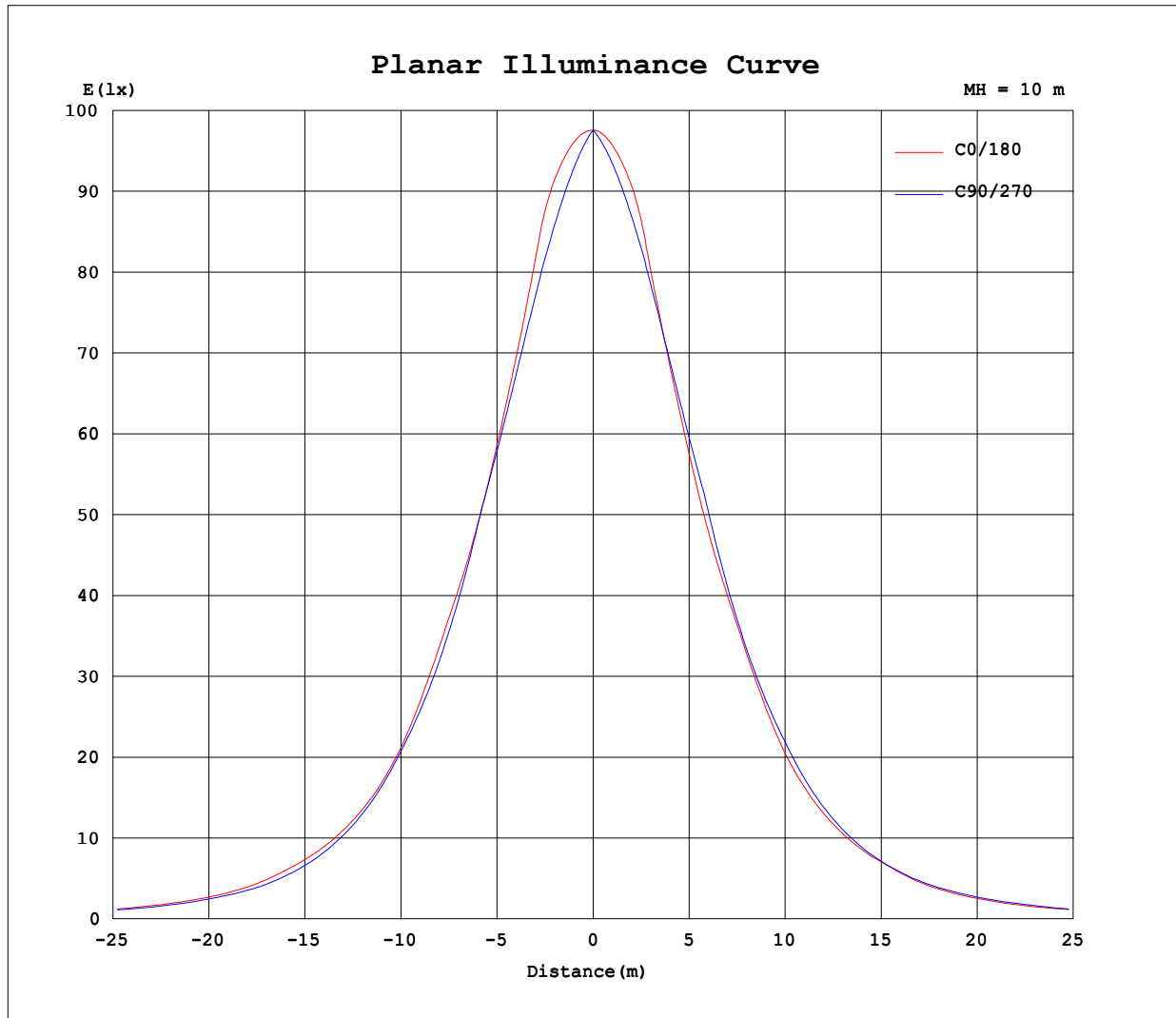
Test:U:220.5V I:1.326A P:283.3W PF:0.9691 Lamp Flux:24489x1 lm		
NAME: BT-MG300W	TYPE:5700K	WEIGHT:10Kg
SPEC.:6*1	DIM.: 456*305*185mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:VISION
 Test Date:2014-11-08

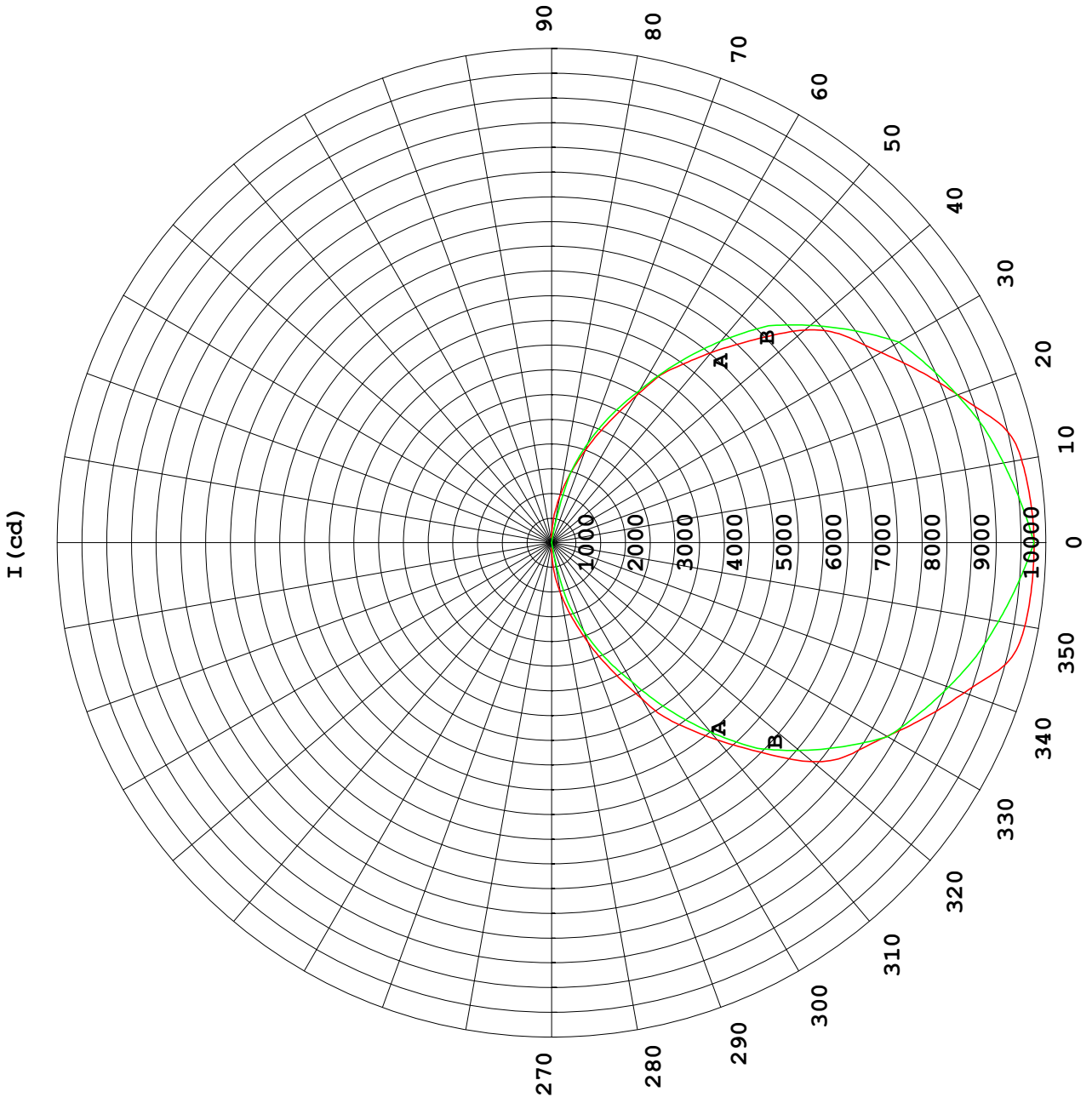
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.256m [K=1.0000]
 Remarks:

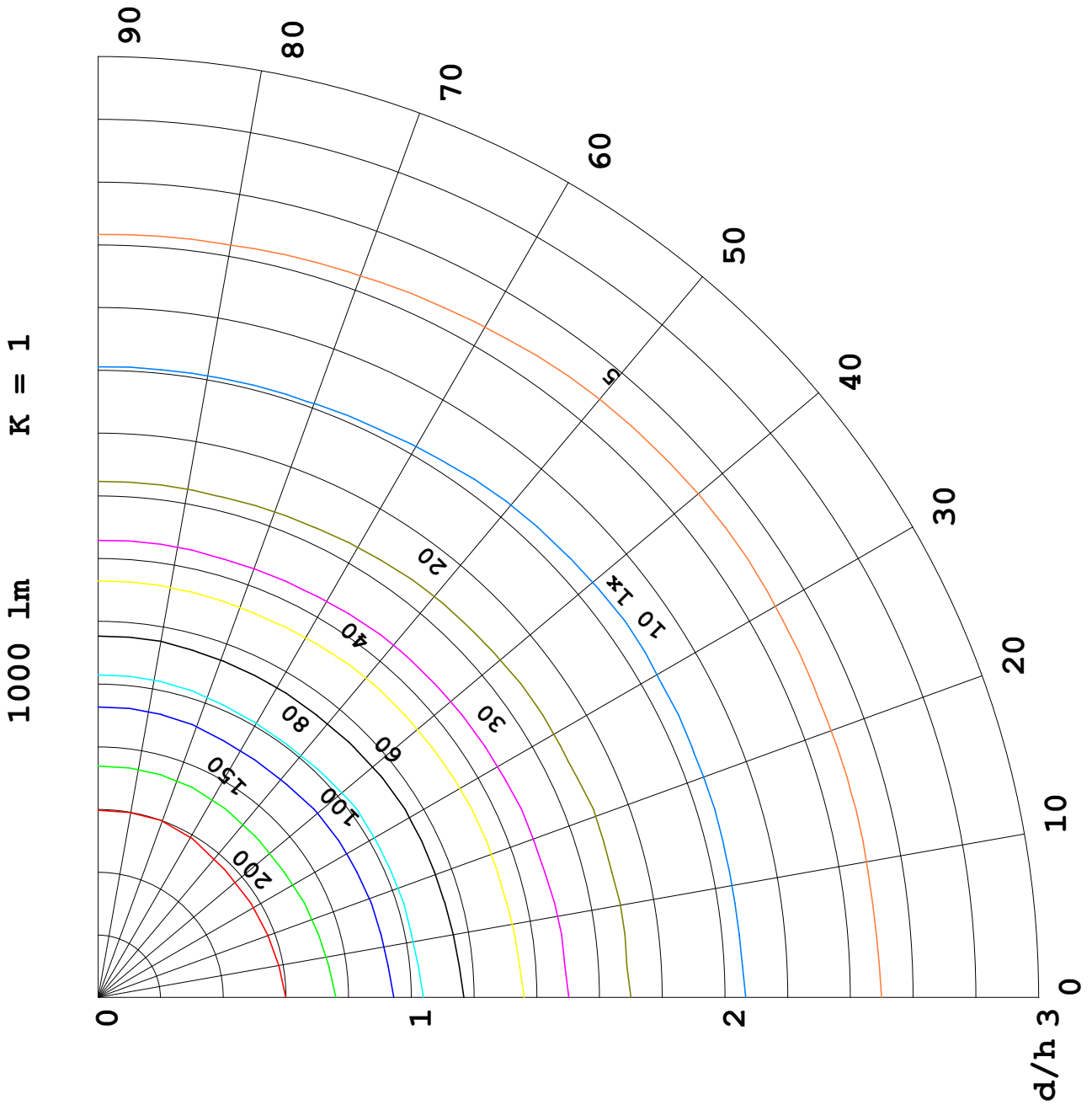
Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators: VISION
 Test Date: 2014-11-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.256m [K=1.0000]
 Remarks:





F = 5000 lm
 K = 0.7
 Hcc = 0.0 m
 Hfc = 0.0 m
 Eave = 100 lx

	Pcc	Pw	Pfc
————	70	50	30
————	50	30	20

