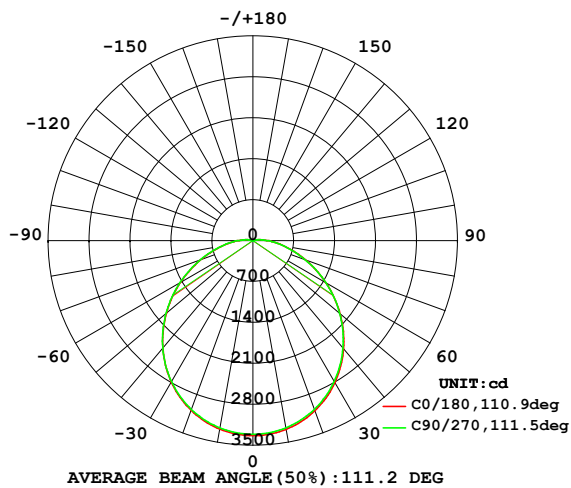


LUMINAIRE PHOTOMETRIC TEST REPORT

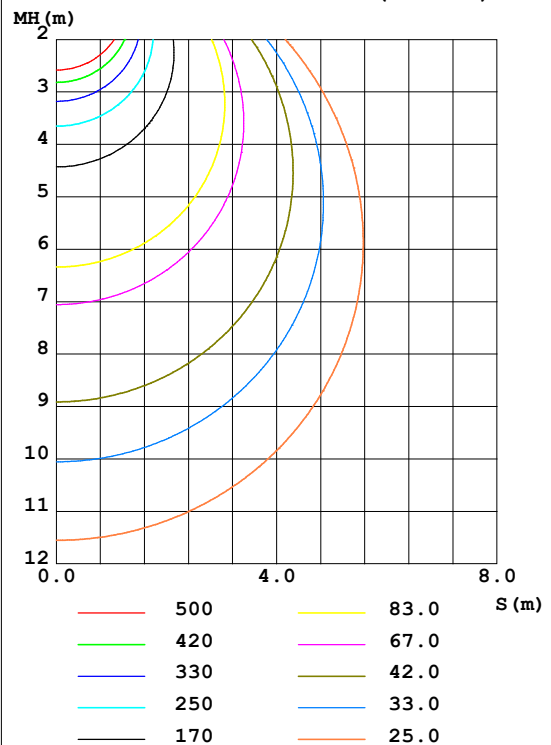
Test:U:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm		
NAME: BT-TH100W	TYPE:5000k	WEIGHT:2870g
SPEC.:120D	DIM.: 355*325mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 105.93 lm/W
MODEL	SMD3030	I _{max} (cd)	3336	S/MH(C0/180)	1.24	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	10066	η UP,DN(C0-180)	1.5,48.6	
NOMINAL FLUX(lm)	10065.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.5,48.4	
LAMPS INSIDE	1	η up(%)	3.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	220	η down(%)	97.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:VISION
 Test Date:2015-6-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	3277	3251	3273	3252					0- 10	314.4	314.4	3.12, 3.12
20	3098	3072	3089	3073					10- 20	899.4	1214	12.1, 12.1
30	2806	2783	2792	2784					20- 30	1359	2573	25.6, 25.6
40	2415	2399	2399	2399					30- 40	1631	4204	41.8, 41.8
50	1949	1942	1932	1942					40- 50	1681	5885	58.5, 58.5
60	1446	1441	1429	1441					50- 60	1513	7398	73.5, 73.5
70	952.8	947.7	939.2	950.3					60- 70	1178	8576	85.2, 85.2
80	538.7	533.6	528.0	537.5					70- 80	772.2	9348	92.9, 92.9
90	258.5	254.6	251.3	257.1					80- 90	417.1	9765	97, 97
100	102.2	99.78	98.22	100.1					90-100	186.1	9951	98.9, 98.9
110	21.42	21.46	20.15	19.78					100-110	57.74	10009	99.4, 99.4
120	13.87	14.07	12.62	12.67					110-120	13.99	10023	99.6, 99.6
130	14.42	14.54	13.24	13.26					120-130	12.21	10035	99.7, 99.7
140	14.53	14.63	13.34	13.35					130-140	10.80	10046	99.8, 99.8
150	14.41	14.43	13.02	13.07					140-150	8.717	10055	99.9, 99.9
160	13.95	13.87	12.53	12.52					150-160	6.237	10061	100, 100
170	13.49	13.35	12.30	12.36					160-170	3.699	10065	100, 100
180	13.35	13.38	13.43	13.31					170-180	1.237	10066	100, 100
DEG	LUMINOUS INTENSITY:cd MAX (Ii - Iavg)/Iavg (0-135) = 143.4 %									UNIT:lm		

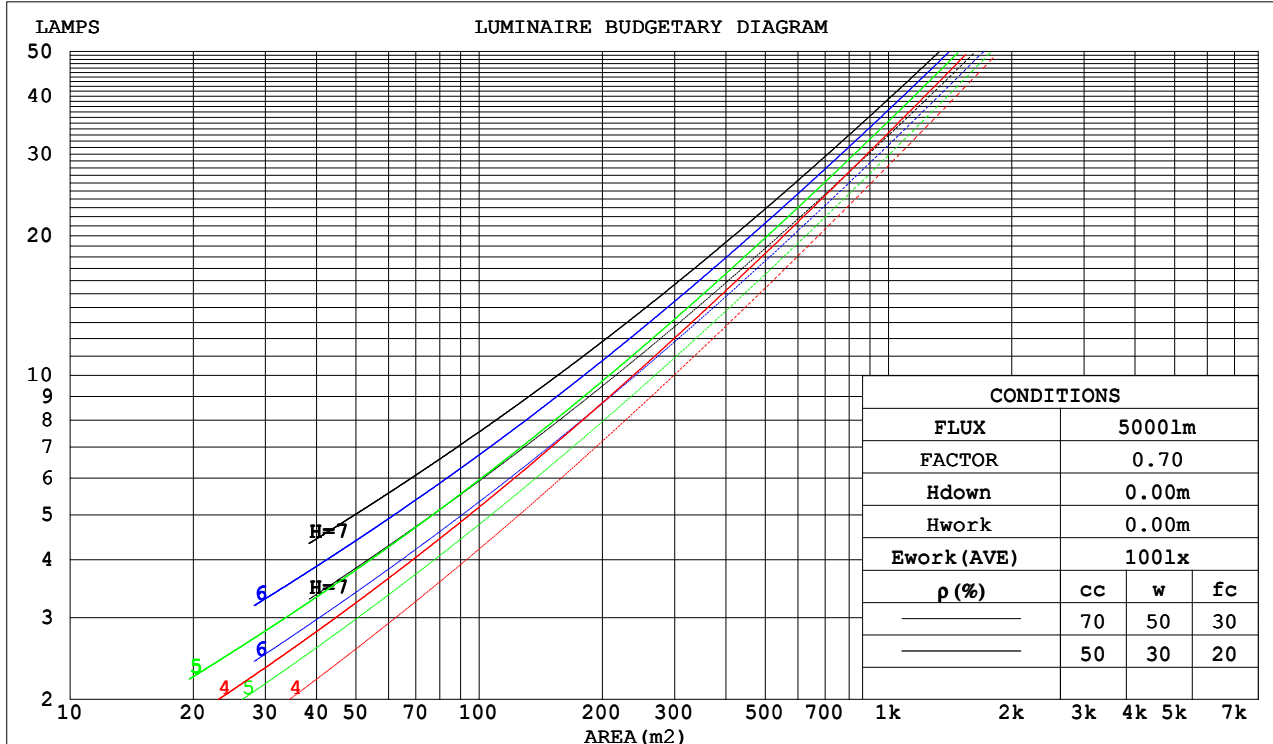
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators: VISION
 Test Date: 2015-6-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm		
NAME: BT-TH100W	TYPE:5000k	WEIGHT:2870g
SPEC.:120D	DIM.: 355*325mm	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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.02	.97	.93	.99	.95	.91	.94	.91	.88	.90	.87	.84	.86	.84	.81	.79
2.0	.88	.81	.75	.86	.80	.74	.82	.77	.72	.78	.74	.70	.75	.71	.68	.65
3.0	.77	.69	.62	.76	.68	.61	.72	.65	.60	.69	.63	.59	.66	.61	.57	.55
4.0	.68	.59	.53	.67	.59	.52	.64	.57	.51	.61	.55	.50	.59	.53	.49	.47
5.0	.61	.52	.45	.60	.51	.45	.57	.50	.44	.55	.48	.43	.53	.47	.43	.40
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.50	.41	.35	.49	.40	.35	.47	.40	.34	.45	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.34	.29	.24	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm														
NAME: BT-TH100W					TYPE:5000k					WEIGHT:2870g				
SPEC.:120D					DIM.: 355*325mm					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	.336	.191	.060	.328	.187	.059	.312	.179	.057	.299	.172	.055	.286	.166	.053			
2.0	.305	.167	.051	.298	.164	.051	.284	.158	.049	.272	.153	.048	.261	.147	.046			
3.0	.278	.148	.044	.272	.145	.044	.260	.141	.043	.249	.136	.042	.238	.132	.041			
4.0	.254	.132	.039	.249	.130	.038	.238	.126	.038	.228	.122	.037	.219	.119	.036			
5.0	.234	.119	.034	.229	.117	.034	.219	.114	.034	.210	.111	.033	.202	.108	.032			
6.0	.216	.108	.031	.211	.107	.031	.203	.104	.030	.195	.101	.030	.188	.099	.029			
7.0	.200	.099	.028	.196	.098	.028	.189	.095	.027	.182	.093	.027	.175	.091	.027			
8.0	.187	.091	.026	.183	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.024			
9.0	.175	.085	.024	.172	.084	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023			
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.021	.150	.075	.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	.213	.213	.213	.182	.182	.182	.124	.124	.124	.071	.071	.071	.023	.023	.023	
1.0	.205	.179	.155	.175	.154	.134	.120	.106	.092	.069	.061	.054	.022	.020	.017	
2.0	.197	.155	.120	.169	.133	.103	.116	.092	.072	.067	.054	.042	.021	.017	.014	
3.0	.189	.138	.096	.162	.119	.084	.111	.082	.059	.064	.048	.035	.021	.016	.011	
4.0	.181	.124	.081	.156	.108	.070	.107	.075	.049	.062	.044	.029	.020	.014	.010	
5.0	.174	.114	.070	.149	.099	.061	.103	.069	.043	.060	.041	.026	.019	.013	.008	
6.0	.167	.106	.062	.143	.092	.054	.099	.064	.038	.057	.038	.023	.018	.012	.008	
7.0	.160	.099	.057	.137	.086	.049	.095	.060	.035	.055	.035	.021	.018	.012	.007	
8.0	.153	.093	.052	.132	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
9.0	.147	.088	.049	.127	.077	.043	.088	.054	.030	.051	.032	.018	.017	.010	.006	
10.0	.141	.084	.046	.122	.073	.040	.084	.051	.029	.049	.030	.017	.016	.010	.006	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm										
NAME: BT-TH100W					TYPE:5000k			WEIGHT:2870g		
SPEC.:120D					DIM.: 355*325mm			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	29.3	30.8	29.6	31.0	31.3	29.2	30.7	29.6	31.0	31.3
3H	30.9	32.3	31.2	32.6	32.9	30.9	32.3	31.2	32.5	32.8
4H	31.6	33.0	32.0	33.3	33.6	31.6	32.9	32.0	33.2	33.6
6H	32.3	33.6	32.7	33.9	34.3	32.3	33.6	32.7	33.9	34.2
8H	32.7	33.9	33.1	34.2	34.6	32.6	33.9	33.0	34.2	34.5
12H	33.0	34.2	33.4	34.6	34.9	33.0	34.2	33.4	34.5	34.9
4H 2H	29.9	31.2	30.2	31.5	31.8	29.9	31.2	30.2	31.5	31.8
3H	31.7	32.9	32.1	33.2	33.6	31.7	32.8	32.1	33.2	33.6
4H	32.6	33.7	33.0	34.0	34.4	32.6	33.6	33.0	34.0	34.4
6H	33.5	34.4	33.9	34.8	35.3	33.4	34.4	33.9	34.8	35.2
8H	33.9	34.8	34.4	35.2	35.7	33.9	34.8	34.3	35.2	35.6
12H	34.4	35.2	34.9	35.6	36.1	34.3	35.2	34.8	35.6	36.1
8H 4H	32.9	33.8	33.4	34.3	34.7	32.9	33.8	33.4	34.2	34.7
6H	34.0	34.8	34.5	35.2	35.7	34.0	34.8	34.5	35.2	35.7
8H	34.6	35.3	35.1	35.8	36.3	34.6	35.3	35.1	35.7	36.3
12H	35.3	35.9	35.8	36.4	36.9	35.2	35.8	35.8	36.3	36.9
12H 4H	33.0	33.8	33.5	34.3	34.7	33.0	33.8	33.5	34.2	34.7
6H	34.2	34.8	34.7	35.3	35.8	34.2	34.8	34.7	35.3	35.8
8H	34.8	35.4	35.4	35.9	36.5	34.8	35.4	35.3	35.9	36.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 10066 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.0)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm		
NAME: BT-TH100W	TYPE:5000k	WEIGHT:2870g
SPEC.:120D	DIM.: 355*325mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

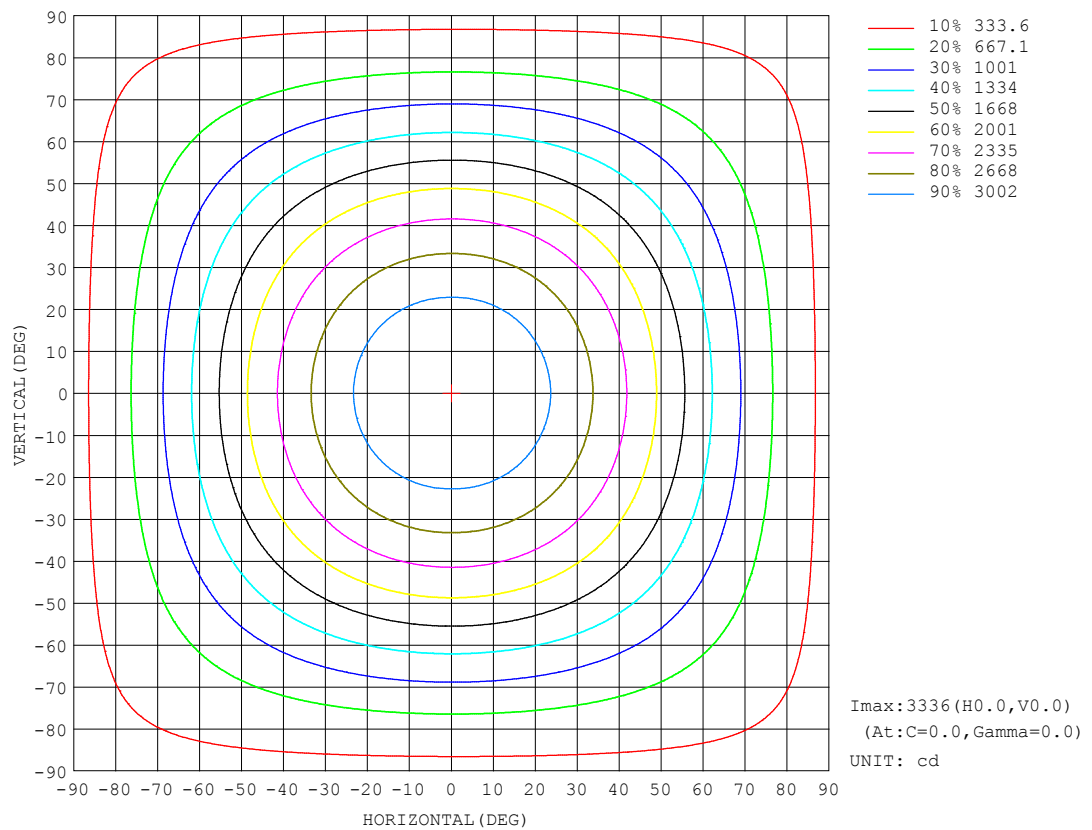
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	64	53	46	63	52	45	38
1.00	74	62	55	72	62	54	70	63	54	46
1.25	81	70	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	81	72	66	58
2.00	93	83	76	90	82	76	87	80	74	65
2.50	96	88	81	94	87	80	90	84	78	69
3.00	100	92	86	98	91	85	93	87	83	73
4.00	104	98	92	101	96	91	97	92	88	78
5.00	107	101	96	104	99	95	99	95	91	81
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm		
NAME: BT-TH100W	TYPE:5000k	WEIGHT:2870g
SPEC.:120D	DIM.: 355*325mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

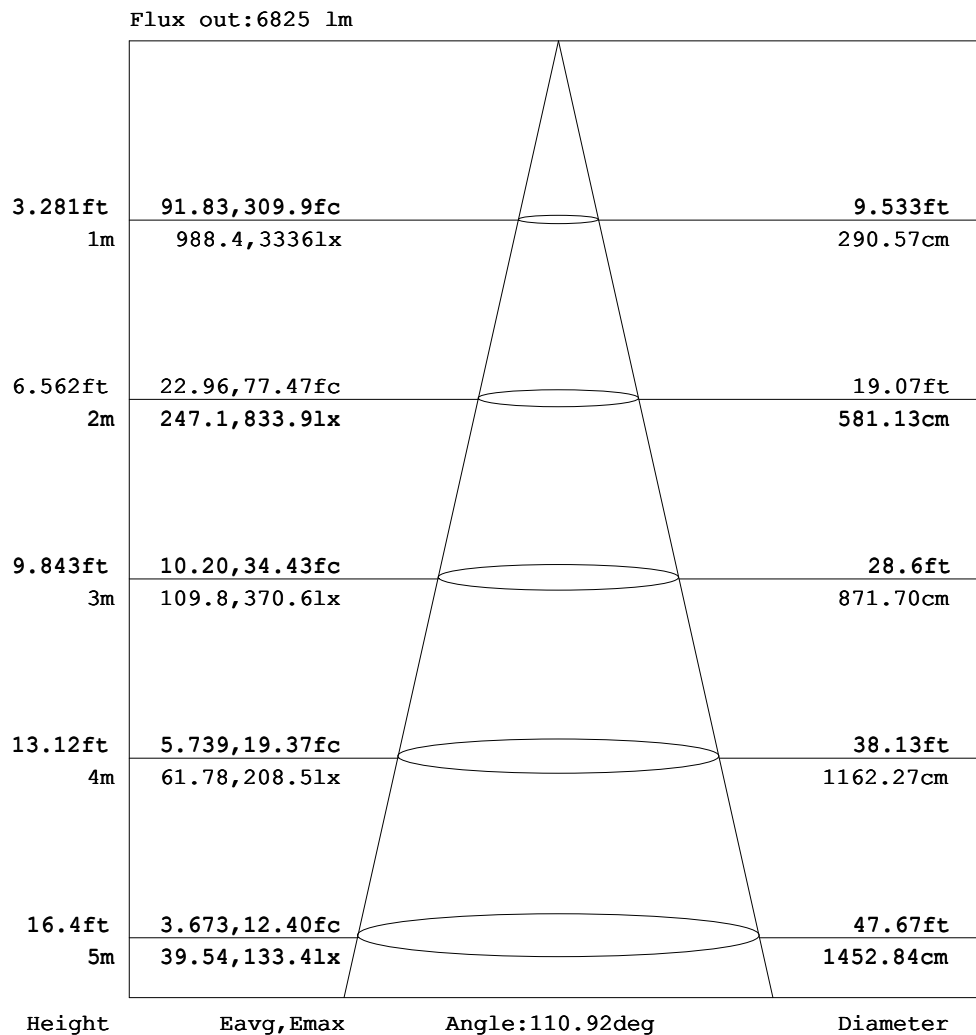


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm		
NAME: BT-TH100W	TYPE:5000k	WEIGHT:2870g
SPEC.:120D	DIM.: 355*325mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



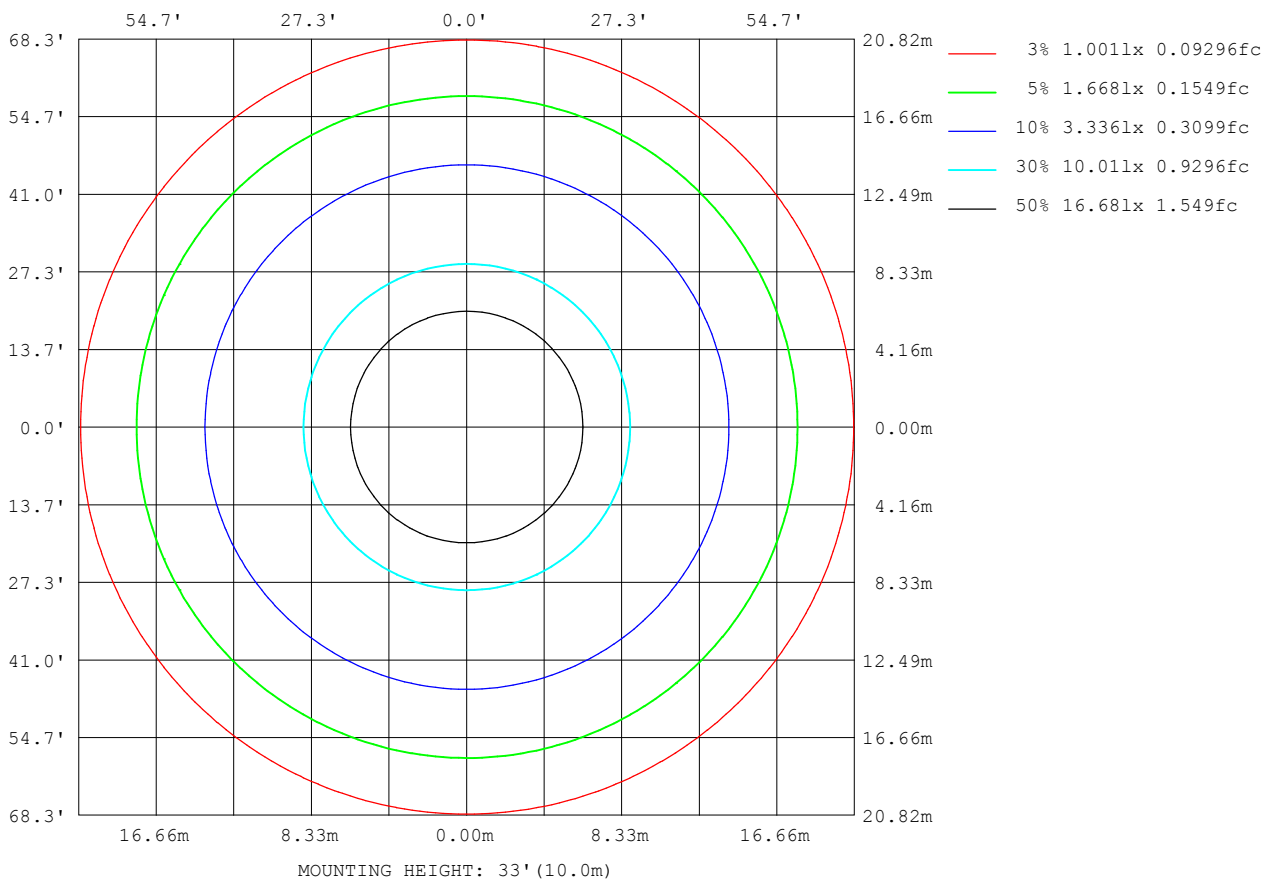
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:9.256m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

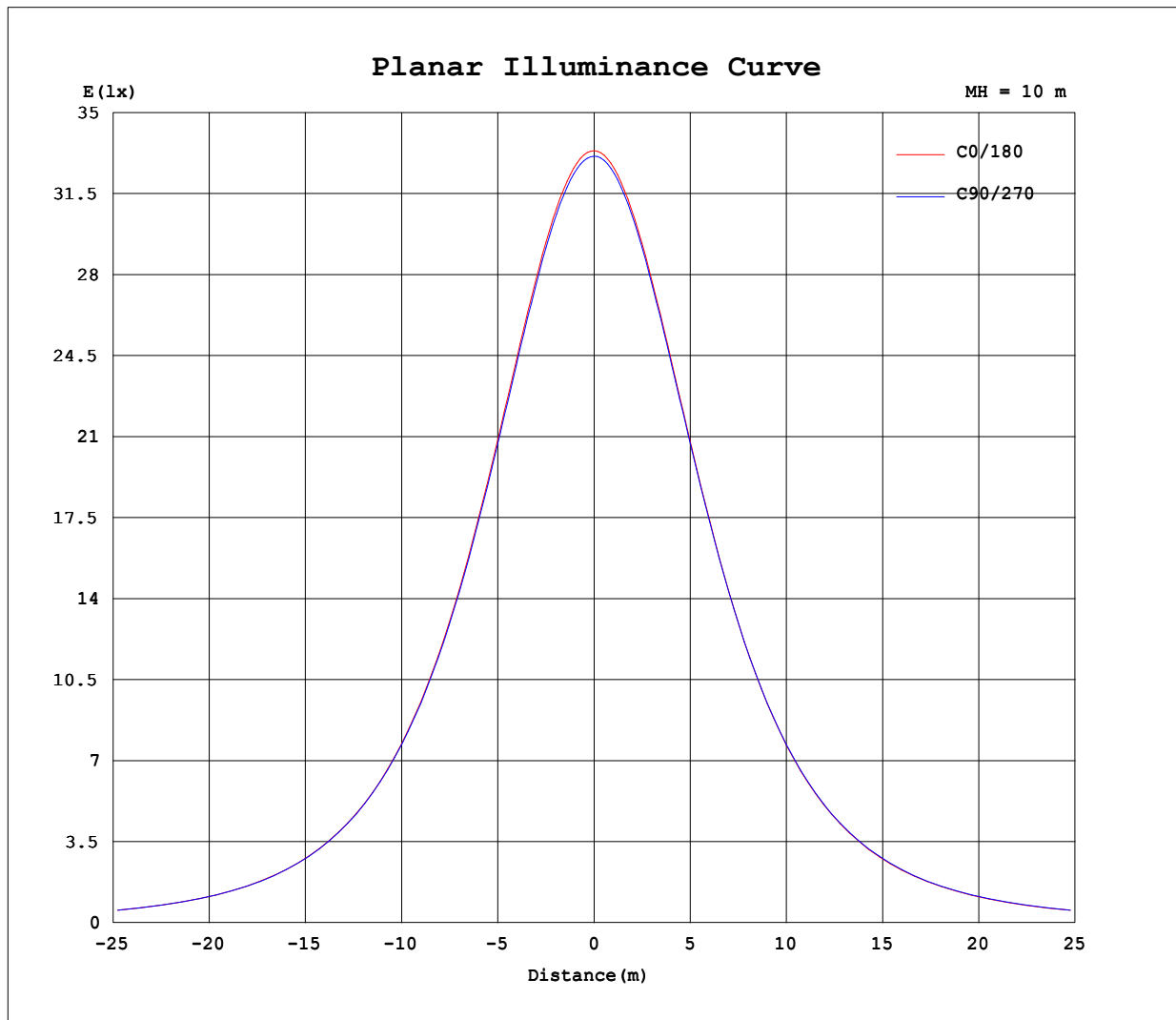
Test:U:220.8V I:0.4370A P:95.02W PF:0.9847 Lamp Flux:10065.8x1 lm		
NAME: BT-TH100W	TYPE:5000k	WEIGHT:2870g
SPEC.:120D	DIM.: 355*325mm	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:VISION
Test Date:2015-6-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:9.256m [K=1.0000]
Remarks:

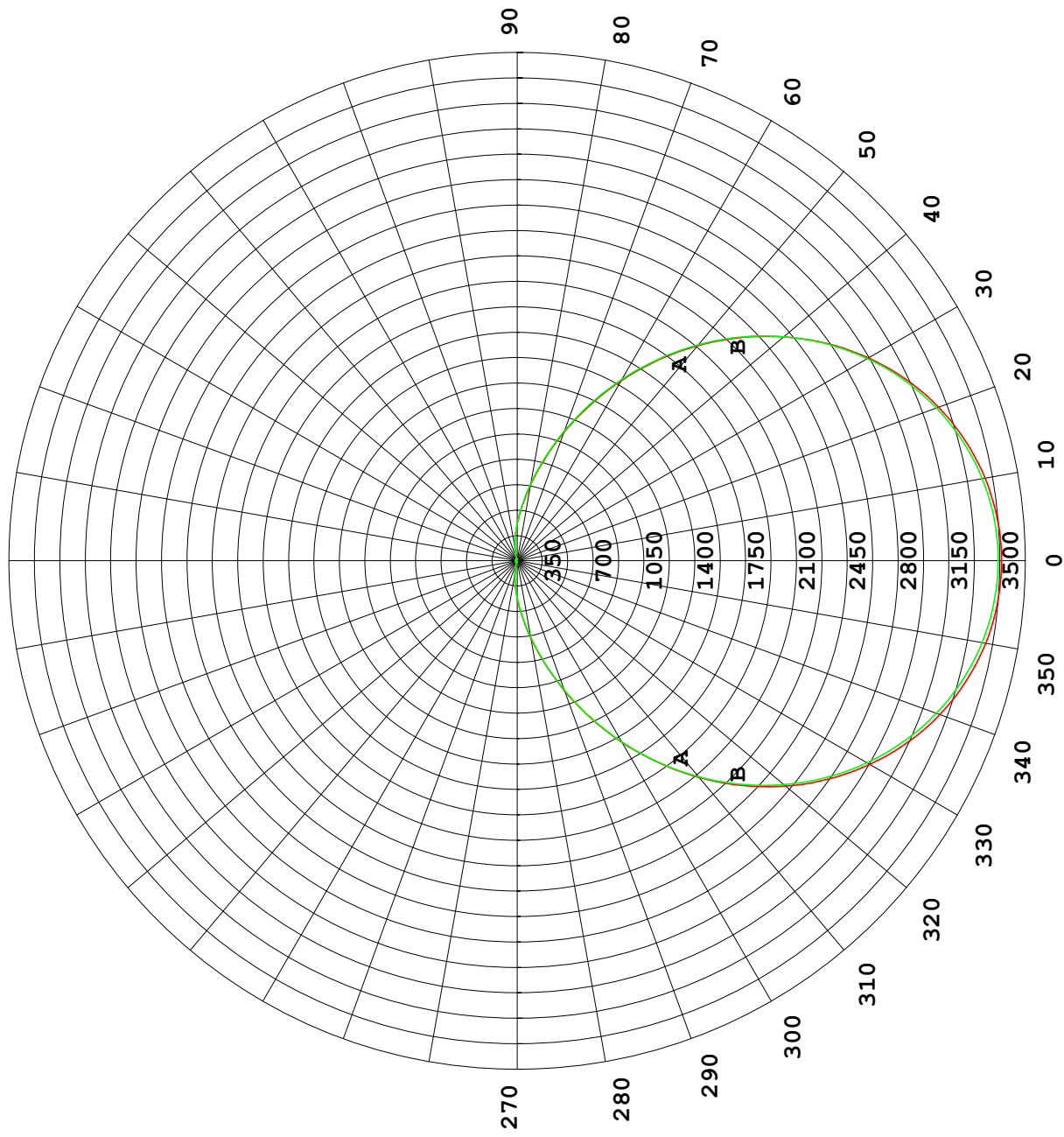
Planar Illuminance Curve

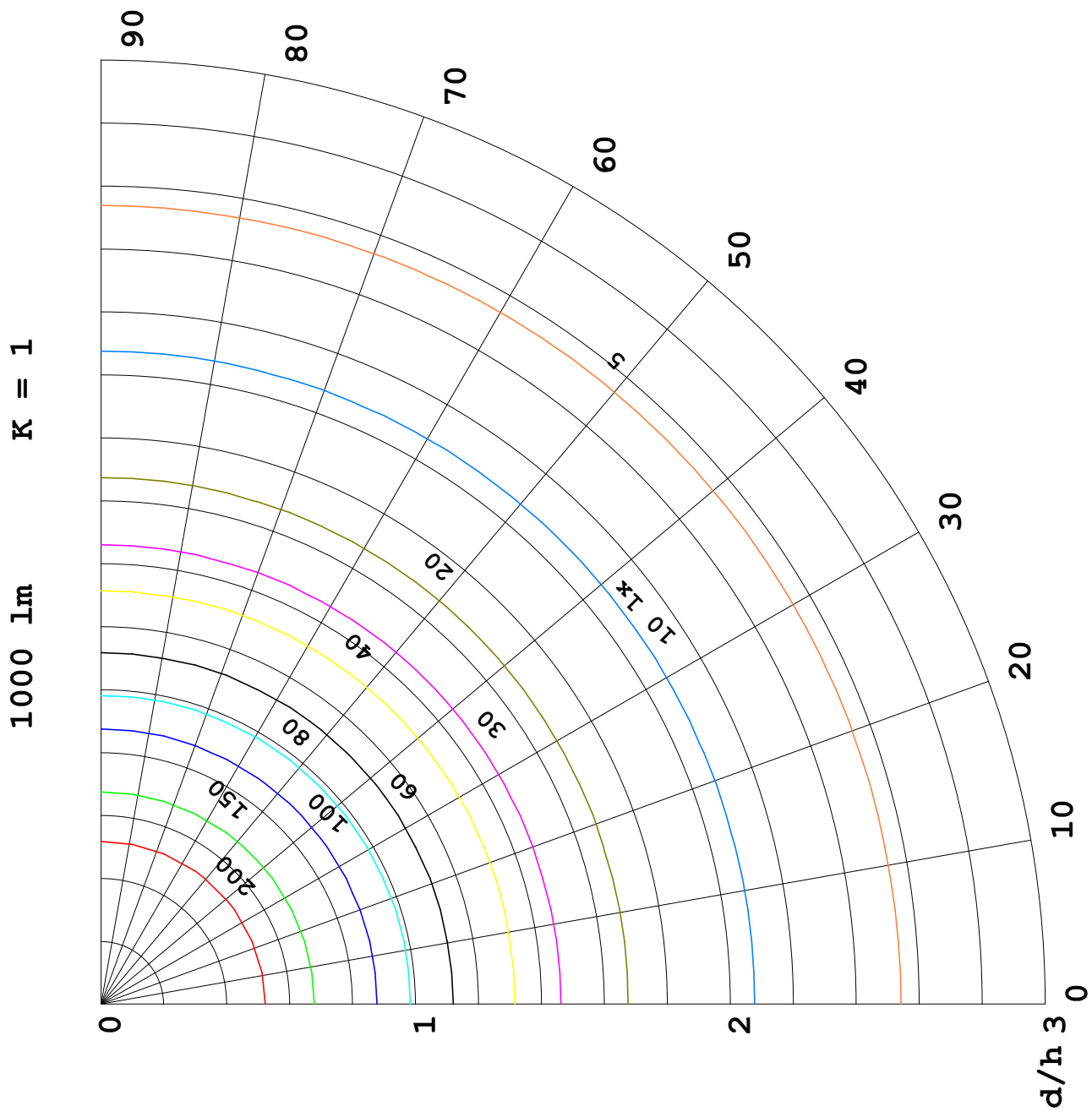


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: VISION
Test Date: 2015-6-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.256m [K=1.0000]
Remarks:

I (cd)





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

