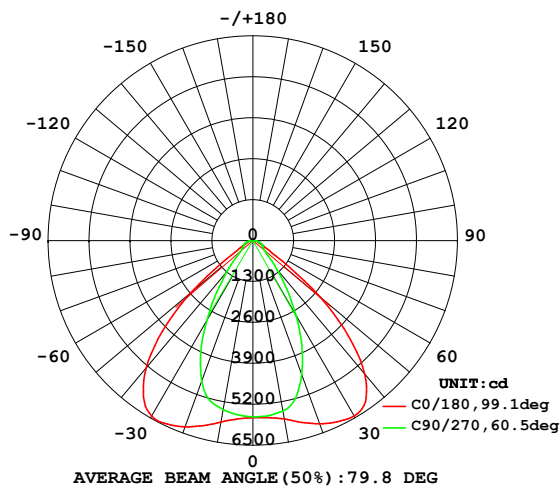


LUMINAIRE PHOTOMETRIC TEST REPORT

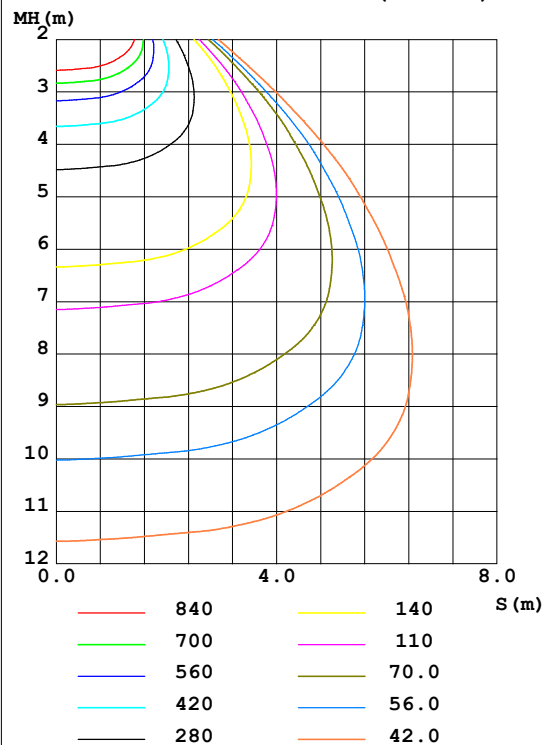
Test:U:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm					
NAME: BT-LON-100W		TYPE:LENS		WEIGHT:3kg	
SPEC.:5000K R80 48LEDs 60x100D		DIM.: D200*H183mm		SERIAL No.:	
MFR.: EVERFINE		SUR.:163*163mm		PROTECTION ANGLE:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 104.13 lm/W
MODEL	SMD3535	Imax(cd)	6470	S/MH(C0/180)	1.42	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	0.92	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	10264	η UP,DN(C0-180)	0.4,49.8	
NOMINAL FLUX(lm)	10263.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,49.4	
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	220	η down(%)	99.2	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2015-06-05

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	5753	5497	5848	5449					0- 10	536.6	536.6	5.23,5.23
20	6191	4539	6293	4753					10- 20	1584	2120	20.7,20.7
30	6433	2760	6429	2939					20- 30	2339	4460	43.4,43.4
40	5523	1197	5271	1270					30- 40	2508	6968	67.9,67.9
50	2785	487.5	2549	488.5					40- 50	1883	8851	86.2,86.2
60	508.9	361.7	462.0	350.1					50- 60	739.0	9590	93.4,93.4
70	211.2	281.3	215.9	267.2					60- 70	312.4	9902	96.5,96.5
80	115.6	133.4	121.3	129.2					70- 80	196.7	10099	98.4,98.4
90	31.50	35.85	40.71	33.61					80- 90	84.51	10183	99.2,99.2
100	9.054	9.489	9.417	9.313					90-100	20.55	10204	99.4,99.4
110	8.237	6.989	7.592	6.833					100-110	8.554	10212	99.5,99.5
120	10.72	6.692	9.122	6.033					110-120	7.544	10220	99.6,99.6
130	15.51	8.253	12.86	6.608					120-130	8.358	10228	99.7,99.7
140	19.43	11.76	16.46	8.938					130-140	9.645	10238	99.7,99.7
150	21.42	16.00	18.68	12.22					140-150	9.820	10248	99.8,99.8
160	21.91	19.26	20.48	15.40					150-160	8.398	10256	99.9,99.9
170	21.68	21.38	20.97	18.58					160-170	5.644	10262	100,100
180	22.33	22.32	22.45	22.19					170-180	2.028	10264	100,100
DEG	LUMINOUS INTENSITY:cd MAX (Ii - Iavg)/Iavg (0-135) = 258.9 %									UNIT:lm		

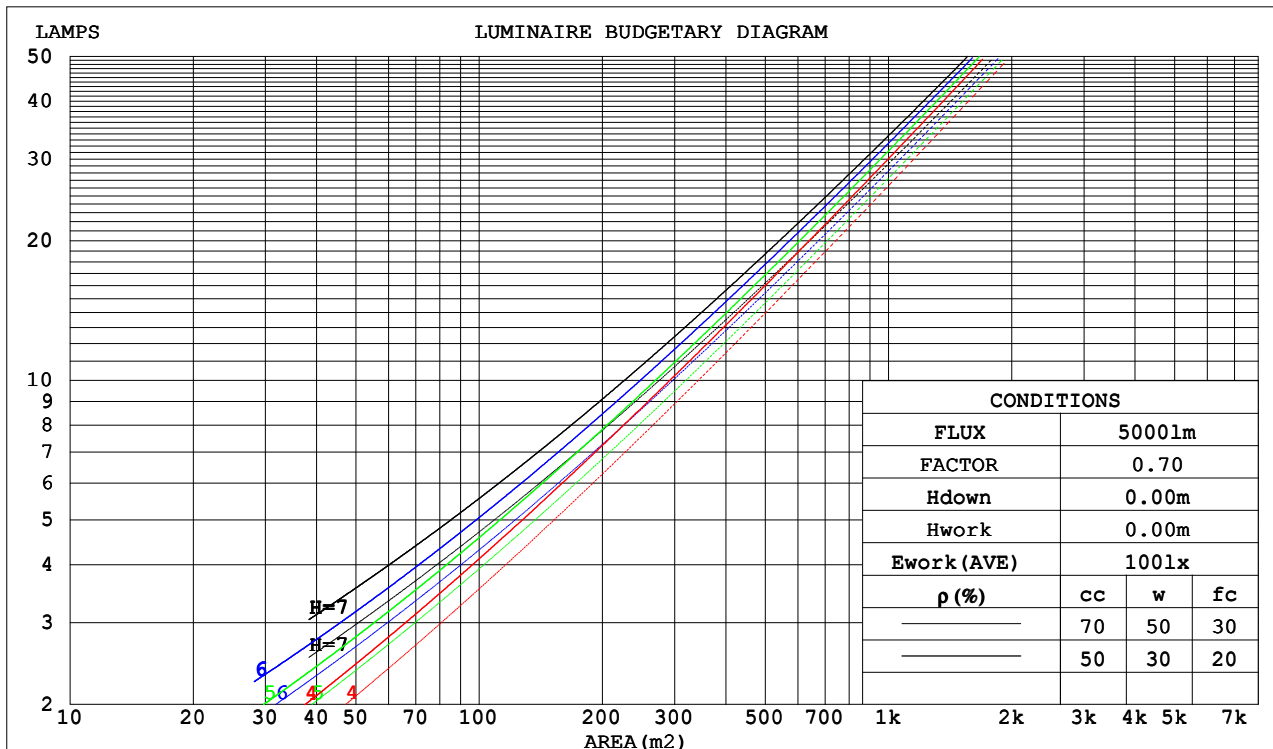
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm		
NAME: BT-LON-100W	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 60x100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	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															



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators:
 Test Date: 2015-06-05

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:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm					
NAME: BT-LON-100W			TYPE:LENS		WEIGHT:3kg
SPEC.:5000K R80 48LEDs 60x100D			DIM.: D200*H183mm		SERIAL No.:
MFR.: EVERFINE			SUR.:163*163mm		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															

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	.196	.196	.196	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.181	.163	.146	.155	.140	.126	.106	.096	.087	.061	.056	.051	.020	.018	.016	
2.0	.169	.138	.112	.145	.119	.097	.099	.082	.068	.057	.048	.040	.018	.016	.013	
3.0	.159	.120	.089	.137	.104	.077	.094	.072	.054	.054	.042	.032	.017	.014	.010	
4.0	.151	.106	.072	.129	.092	.062	.089	.064	.044	.051	.037	.026	.017	.012	.009	
5.0	.143	.095	.060	.123	.082	.052	.085	.057	.037	.049	.034	.022	.016	.011	.007	
6.0	.136	.086	.050	.117	.075	.044	.081	.052	.031	.047	.031	.018	.015	.010	.006	
7.0	.130	.079	.044	.112	.069	.038	.077	.048	.027	.045	.028	.016	.015	.009	.005	
8.0	.125	.073	.038	.107	.064	.033	.074	.045	.024	.043	.026	.014	.014	.009	.005	
9.0	.119	.068	.034	.103	.059	.030	.071	.042	.021	.041	.025	.013	.013	.008	.004	
10.0	.114	.064	.031	.099	.056	.027	.068	.039	.019	.040	.023	.011	.013	.008	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm										
NAME: BT-LON-100W					TYPE:LENS			WEIGHT:3kg		
SPEC.:5000K R80 48LEDs 60x100D					DIM.: D200*H183mm			SERIAL No.:		
MFR.: EVERFINE					SUR.:163*163mm			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	29.2	30.4	29.4	30.6	30.8	25.0	26.2	25.2	26.4	26.6
3H	29.1	30.3	29.4	30.5	30.7	25.5	26.6	25.8	26.8	27.1
4H	29.1	30.2	29.5	30.5	30.7	25.8	26.9	26.1	27.1	27.4
6H	29.2	30.2	29.5	30.4	30.7	26.1	27.1	26.4	27.3	27.6
8H	29.2	30.1	29.5	30.4	30.7	26.2	27.1	26.5	27.4	27.7
12H	29.2	30.1	29.5	30.4	30.7	26.3	27.3	26.7	27.6	27.9
4H 2H	29.0	30.1	29.3	30.3	30.6	25.1	26.1	25.4	26.4	26.6
3H	29.0	30.0	29.4	30.2	30.6	25.8	26.7	26.1	27.0	27.3
4H	29.1	29.9	29.5	30.3	30.6	26.3	27.1	26.6	27.4	27.7
6H	29.2	29.9	29.6	30.3	30.7	26.7	27.4	27.1	27.8	28.1
8H	29.2	29.9	29.7	30.3	30.7	26.8	27.5	27.3	27.9	28.3
12H	29.3	29.9	29.7	30.3	30.7	27.1	27.7	27.5	28.1	28.5
8H 4H	29.1	29.8	29.5	30.1	30.5	26.4	27.0	26.8	27.4	27.8
6H	29.2	29.8	29.7	30.2	30.6	26.9	27.5	27.4	27.9	28.3
8H	29.3	29.8	29.8	30.3	30.7	27.2	27.7	27.6	28.1	28.6
12H	29.4	29.9	29.9	30.3	30.8	27.6	28.0	28.1	28.5	28.9
12H 4H	29.1	29.7	29.5	30.1	30.5	26.4	27.0	26.8	27.4	27.8
6H	29.2	29.7	29.7	30.2	30.6	27.0	27.4	27.4	27.9	28.3
8H	29.4	29.8	29.8	30.2	30.7	27.3	27.7	27.8	28.1	28.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 2.7					+ 1.4 / - 1.3				
1.5H	+ 2.1 / - 3.6					+ 1.5 / - 1.8				
2.0H	+ 5.0 / - 3.9					+ 1.8 / - 1.0				

CIE Pub.117 Corrected 10264 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.1)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm		
NAME: BT-LON-100W	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 60x100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:

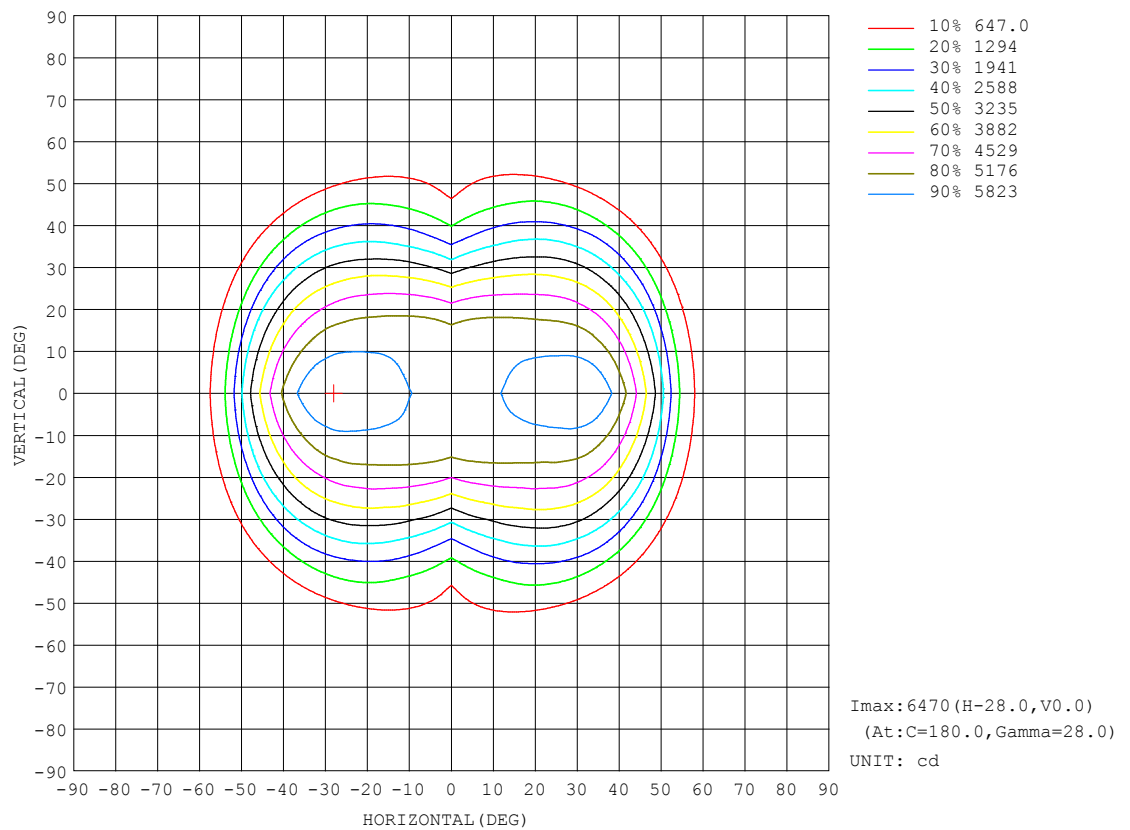
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	62	57	71	62	57	70	61	56	51
0.80	81	72	66	80	72	66	78	71	66	61
1.00	88	80	74	87	79	74	85	80	74	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	107	103	99	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	100	92
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:
Test Date:2015-06-05

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:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm		
NAME: BT-LON-100W	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 60x100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:

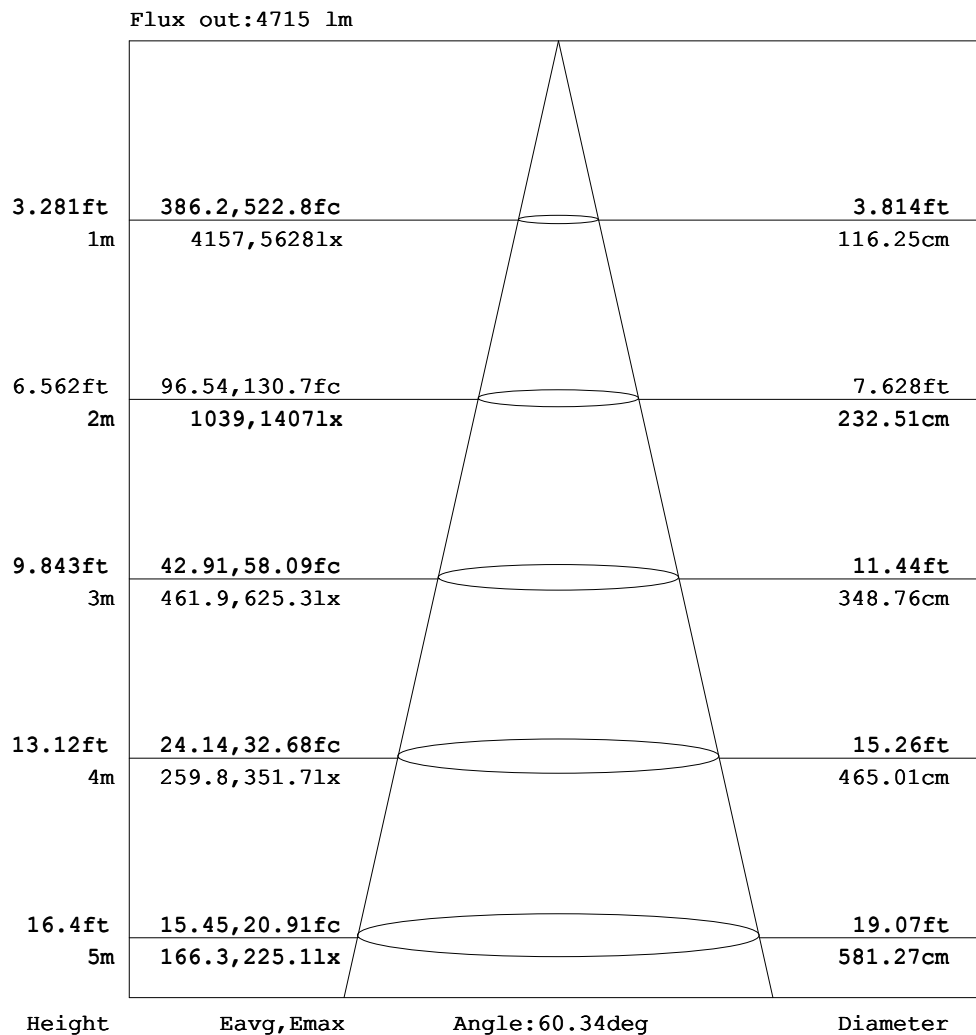


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm		
NAME: BT-LON-100W	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 60x100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:



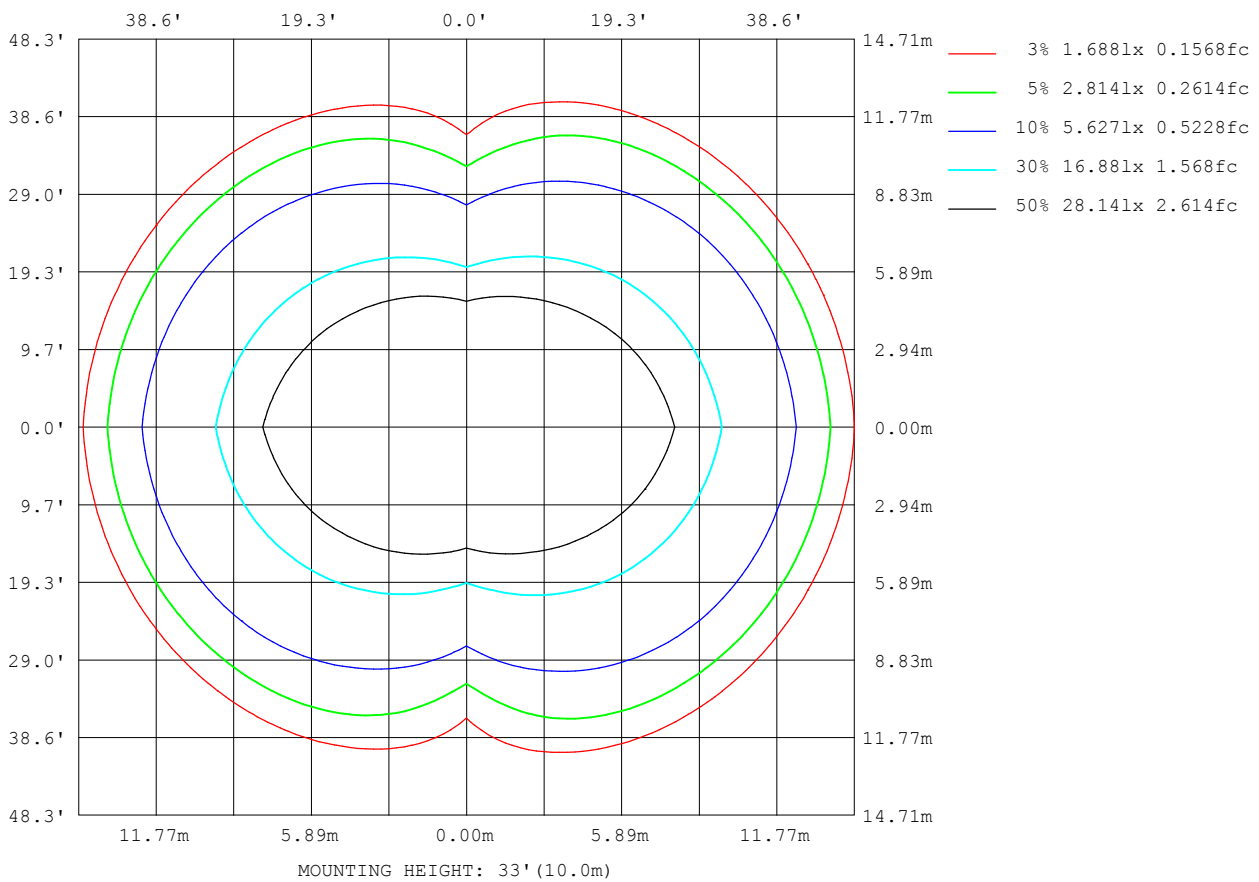
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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

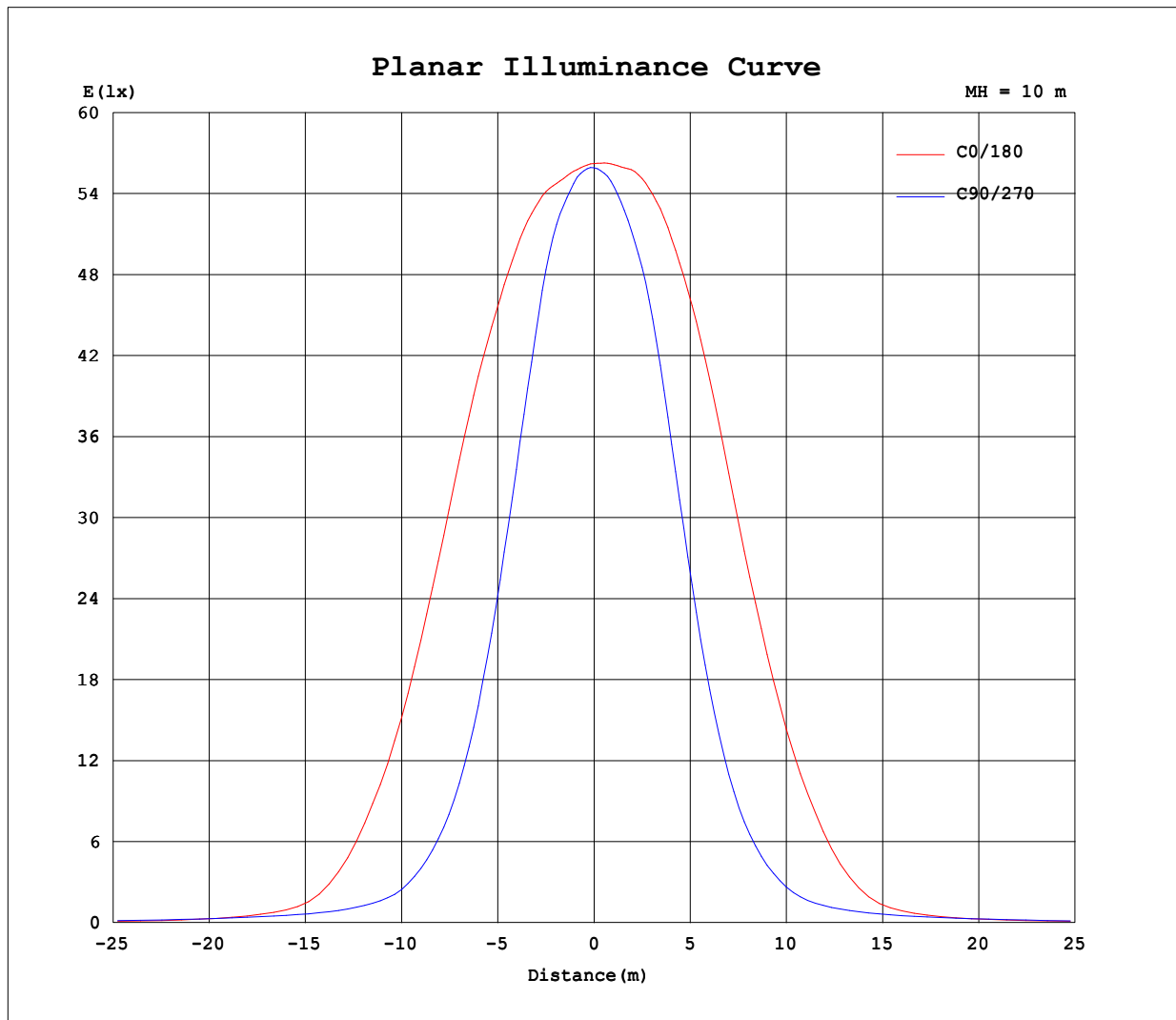
Test:U:220.9V I:0.4528A P:98.57W PF:0.9854 Lamp Flux:10263.7x1 lm		
NAME: BT-LON-100W	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 60x100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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:

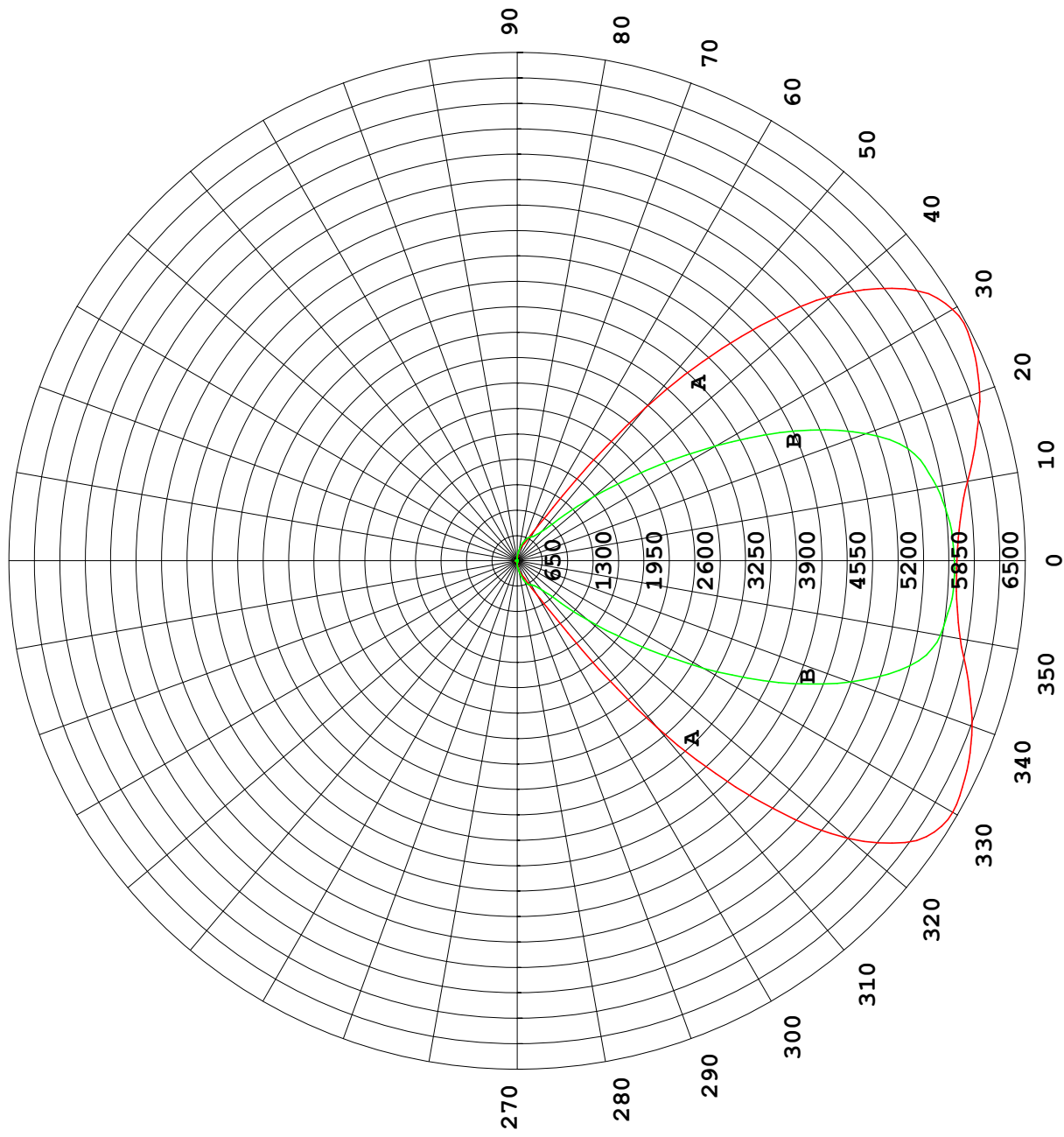
Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators:
Test Date: 2015-06-05

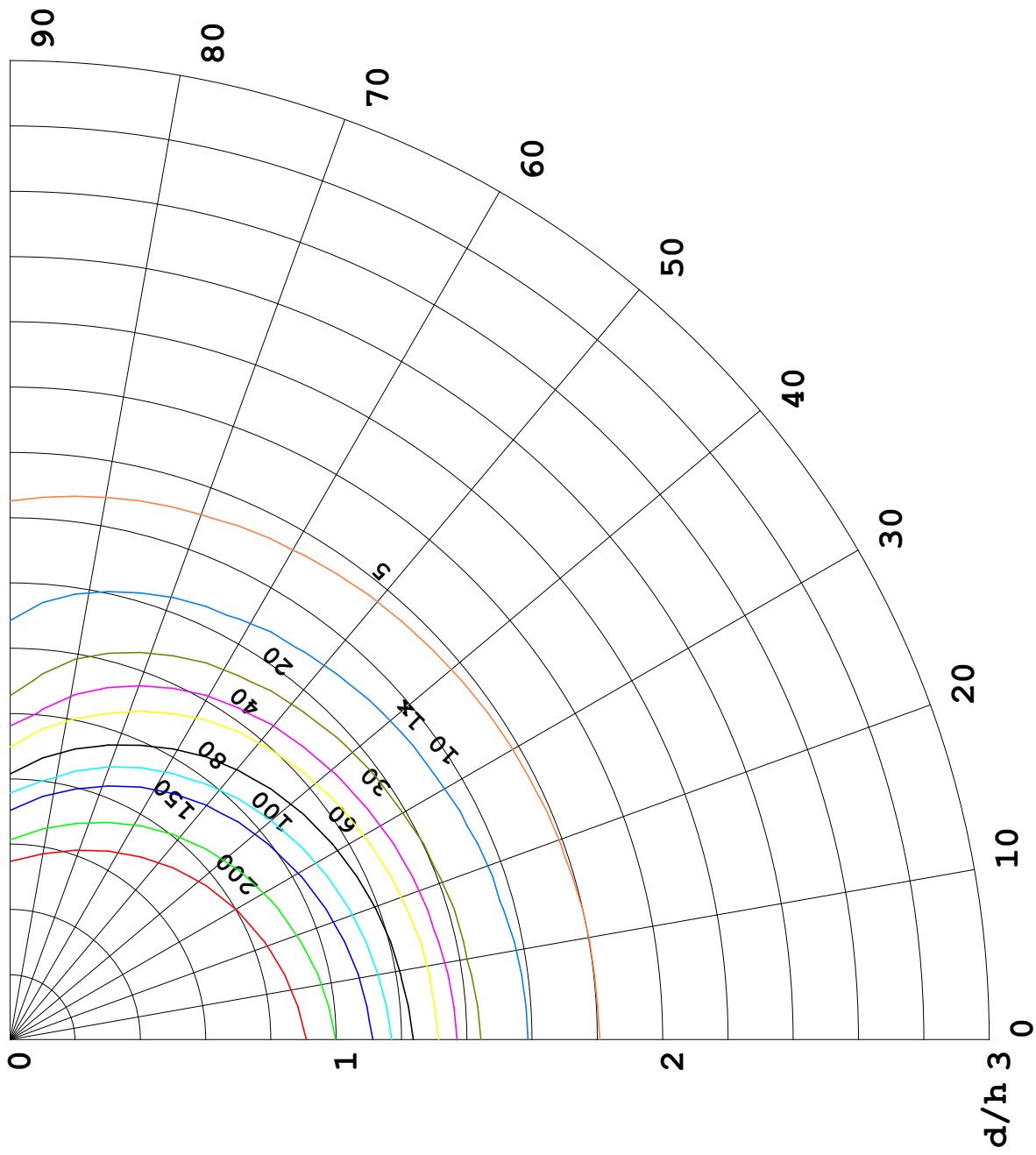
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.256m [K=1.0000]
Remarks:

I (cd)



$\kappa = 1$

1000 lm



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

