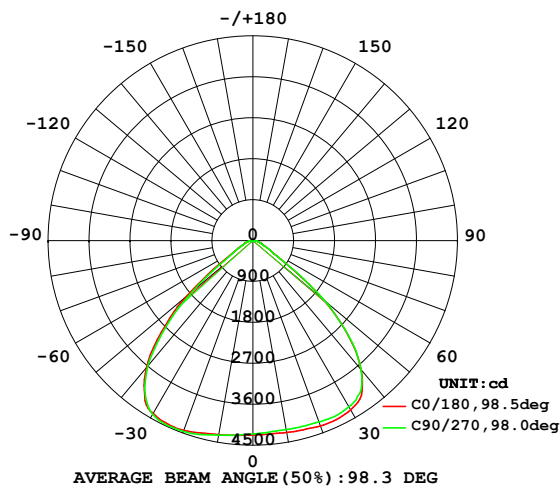


LUMINAIRE PHOTOMETRIC TEST REPORT

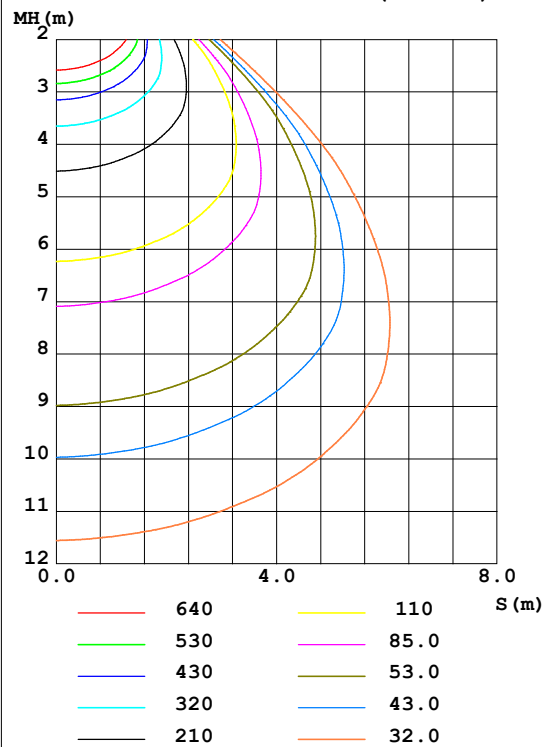
Test:U:220.9V I:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm		
NAME: BT-LON-100W-100D	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.72 lm/W
MODEL	SMD3535	I _{max} (cd)	4478	S/MH(C0/180)	1.39	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.38	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	9874.0	η UP,DN(C0-180)	0.4,50.0	
NOMINAL FLUX(lm)	9874	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.3,49.3	
LAMPS INSIDE	1	η up(%)	0.7	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	220	η down(%)	99.3	CIBSE SHR MAX	1.50	

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	4284	4220	4333	4341					0- 10	408.3	408.3	4.14, 4.14
20	4338	4242	4440	4466					10- 20	1229	1638	16.6, 16.6
30	4301	4221	4387	4414					20- 30	2023	3660	37.1, 37.1
40	3702	3700	3636	3588					30- 40	2558	6218	63, 63
50	2049	2090	1895	1719					40- 50	2199	8417	85.2, 85.2
60	467.5	461.5	452.9	423.8					50- 60	881.8	9298	94.2, 94.2
70	202.3	194.5	198.7	192.6					60- 70	291.7	9590	97.1, 97.1
80	94.96	92.88	100.8	96.88					70- 80	155.2	9745	98.7, 98.7
90	22.51	32.46	35.63	31.94					80- 90	60.18	9805	99.3, 99.3
100	6.423	6.214	6.567	6.176					90-100	16.47	9822	99.5, 99.5
110	5.854	5.666	5.266	5.050					100-110	5.915	9828	99.5, 99.5
120	7.918	7.689	6.643	6.576					110-120	6.119	9834	99.6, 99.6
130	11.57	11.37	9.579	9.559					120-130	7.850	9842	99.7, 99.7
140	14.76	14.77	12.40	12.15					130-140	9.373	9851	99.8, 99.8
150	16.57	16.73	14.25	13.88					140-150	9.103	9860	99.9, 99.9
160	17.15	17.43	15.87	15.40					150-160	7.361	9868	99.9, 99.9
170	17.21	17.45	16.51	16.04					160-170	4.714	9872	100, 100
180	17.65	17.62	17.79	17.53					170-180	1.627	9874	100, 100
DEG	LUMINOUS INTENSITY:cd MAX (Ii - Iavg)/Iavg (0-135) = 180.9 %									UNIT:lm		

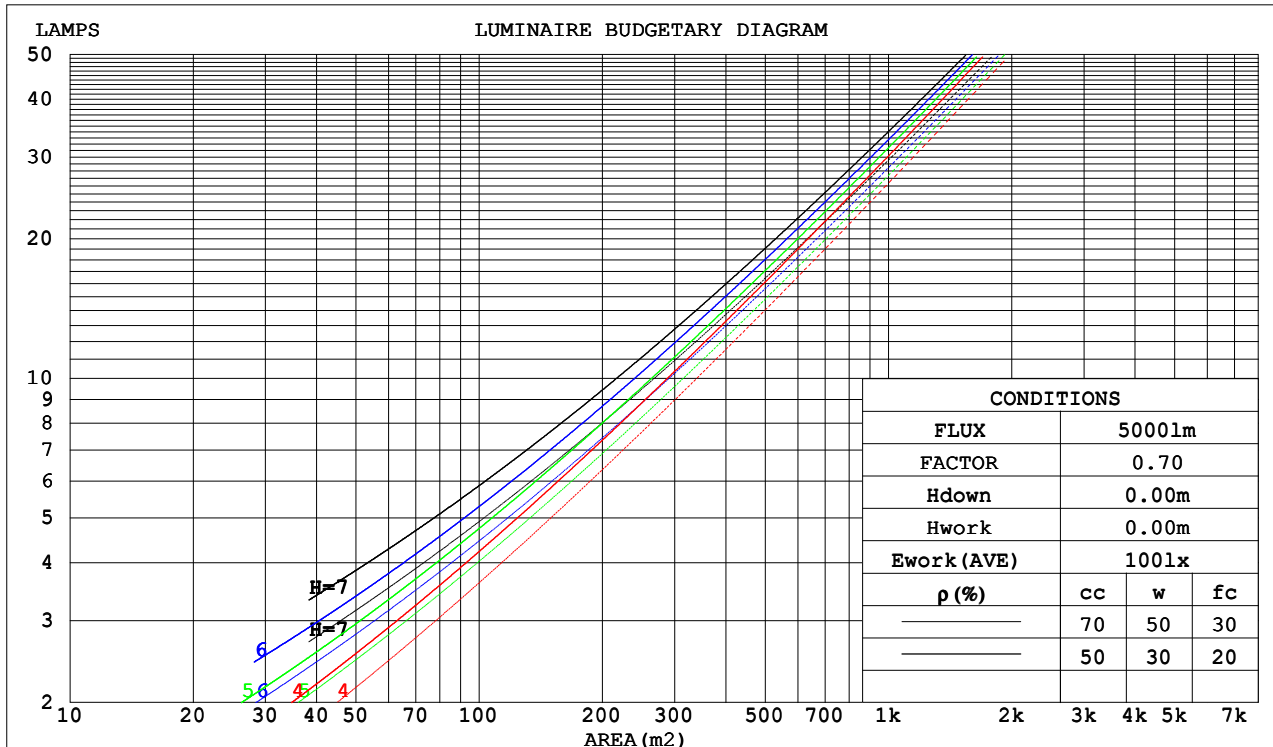
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators:
 Test Date: 2015-06-05

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:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm		
NAME: BT-LON-100W-100D	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 100D	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						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	1.01	1.01	1.01	.99
1.0	1.08	1.04	1.01	1.05	1.02	.90	1.01	.99	.96	.97	.95	.93	.93	.92	.90	.89
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.87	.81	.75	.86	.80	.75	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.66	.75	.69	.65	.73	.68	.64	.71	.66	.63	.61
5.0	.72	.64	.58	.71	.63	.58	.68	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.52	.46	.59	.51	.46	.57	.51	.46	.56	.50	.46	.55	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.35
10.0	.47	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32



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:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm														
NAME: BT-LON-100W-100D							TYPE:LENS					WEIGHT:3kg		
SPEC.:5000K R80 48LEDs 100D							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	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.181	.162	.145	.155	.139	.125	.106	.096	.087	.061	.055	.050	.019	.018	.016	
2.0	.169	.138	.111	.145	.118	.096	.099	.082	.067	.057	.048	.039	.018	.015	.013	
3.0	.160	.119	.087	.137	.103	.075	.094	.072	.053	.054	.042	.031	.017	.014	.010	
4.0	.152	.105	.070	.130	.091	.061	.090	.064	.043	.052	.037	.025	.017	.012	.008	
5.0	.145	.095	.058	.124	.082	.050	.086	.057	.035	.050	.034	.021	.016	.011	.007	
6.0	.138	.086	.049	.119	.074	.042	.082	.052	.030	.047	.031	.018	.015	.010	.006	
7.0	.132	.079	.042	.113	.068	.037	.078	.048	.026	.046	.028	.015	.015	.009	.005	
8.0	.126	.073	.037	.109	.063	.032	.075	.045	.023	.044	.026	.014	.014	.009	.004	
9.0	.121	.068	.033	.104	.059	.028	.072	.042	.020	.042	.025	.012	.014	.008	.004	
10.0	.116	.064	.029	.100	.056	.026	.069	.039	.018	.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:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm										
NAME: BT-LON-100W-100D					TYPE:LENS			WEIGHT:3kg		
SPEC.:5000K R80 48LEDs 100D					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	28.3	29.6	28.6	29.8	30.0	28.4	29.6	28.6	29.8	30.0
3H	28.3	29.5	28.6	29.7	30.0	28.3	29.5	28.6	29.7	30.0
4H	28.3	29.4	28.6	29.7	29.9	28.3	29.4	28.6	29.7	29.9
6H	28.3	29.4	28.6	29.6	29.9	28.3	29.4	28.7	29.6	29.9
8H	28.3	29.3	28.7	29.6	29.9	28.3	29.3	28.7	29.6	29.9
12H	28.3	29.3	28.7	29.6	29.9	28.3	29.3	28.7	29.6	29.9
4H 2H	28.2	29.3	28.5	29.5	29.8	28.2	29.3	28.5	29.6	29.8
3H	28.3	29.2	28.6	29.5	29.8	28.3	29.2	28.6	29.5	29.8
4H	28.3	29.2	28.7	29.5	29.8	28.3	29.2	28.7	29.5	29.8
6H	28.4	29.1	28.8	29.5	29.9	28.4	29.1	28.8	29.5	29.9
8H	28.4	29.1	28.8	29.5	29.9	28.4	29.1	28.8	29.5	29.9
12H	28.4	29.1	28.9	29.5	29.9	28.4	29.1	28.9	29.5	29.9
8H 4H	28.3	29.0	28.7	29.3	29.7	28.3	29.0	28.7	29.3	29.7
6H	28.4	29.0	28.8	29.4	29.8	28.4	29.0	28.8	29.4	29.8
8H	28.5	29.0	28.9	29.4	29.9	28.5	29.0	28.9	29.4	29.9
12H	28.5	29.0	29.0	29.4	29.9	28.5	28.9	29.0	29.4	29.9
12H 4H	28.2	28.9	28.7	29.3	29.7	28.2	28.9	28.7	29.3	29.7
6H	28.4	28.9	28.8	29.3	29.8	28.4	28.9	28.9	29.3	29.8
8H	28.5	28.9	28.9	29.3	29.8	28.5	28.9	28.9	29.3	29.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 2.8					+ 1.8 / - 2.7				
1.5H	+ 1.0 / - 2.9					+ 1.0 / - 2.8				
2.0H	+ 3.8 / - 3.8					+ 3.7 / - 3.8				

CIE Pub.117 Corrected 9874 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.0)

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:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm		
NAME: BT-LON-100W-100D	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:

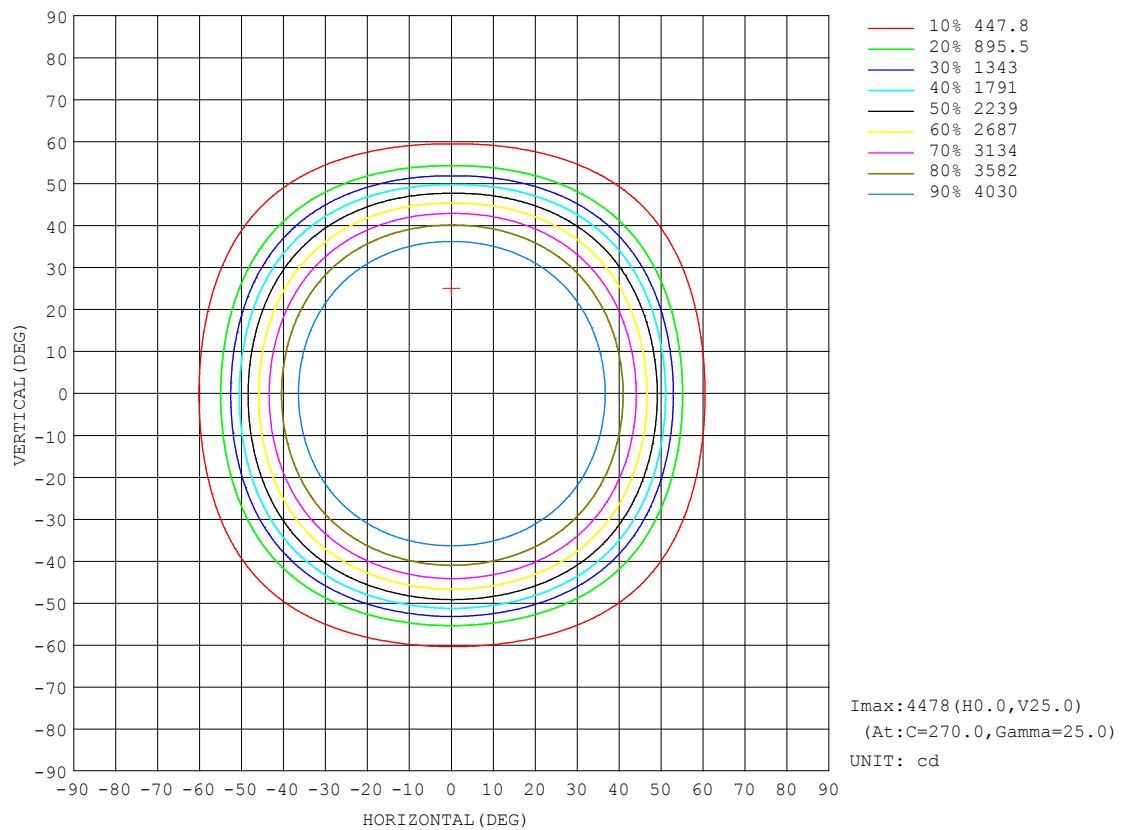
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	52	67	58	52	66	57	52	47
0.80	78	69	63	77	68	63	76	68	62	57
1.00	86	78	72	85	77	72	83	78	71	65
1.25	92	85	79	91	84	79	89	82	78	72
1.50	97	89	84	95	88	84	92	87	82	76
2.00	102	96	91	100	94	90	97	92	89	82
2.50	105	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	94	87
4.00	110	105	102	107	104	101	103	100	98	90
5.00	111	108	105	109	106	103	105	102	100	91
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:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm		
NAME: BT-LON-100W-100D	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:

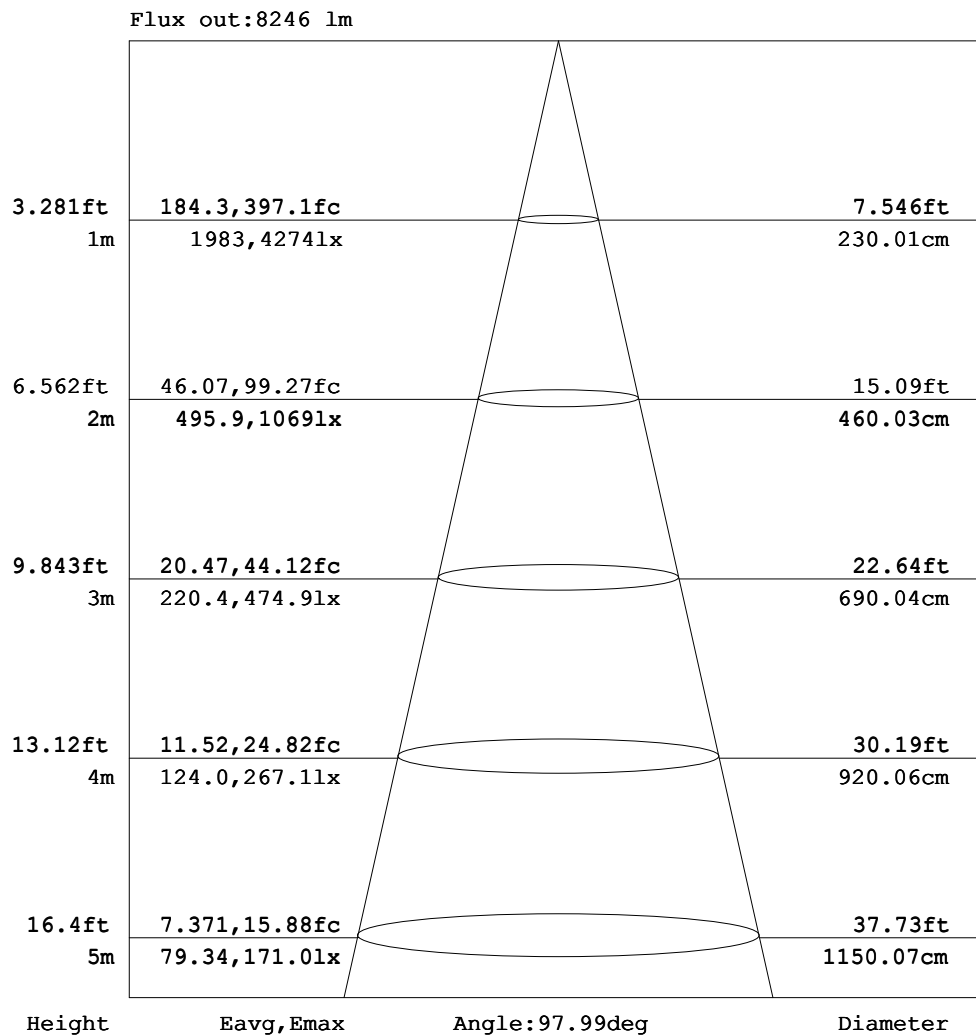


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2015-06-05

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:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm		
NAME: BT-LON-100W-100D	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:



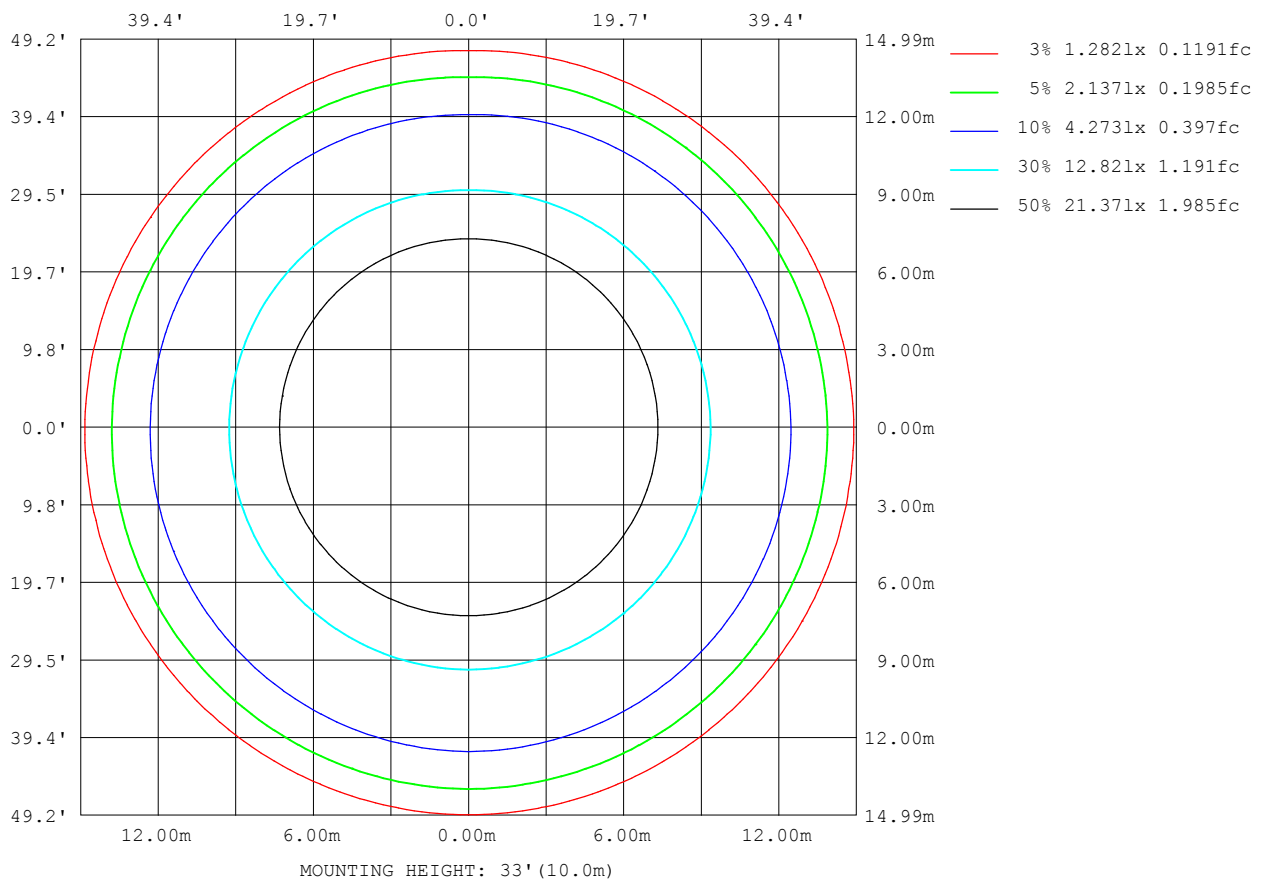
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

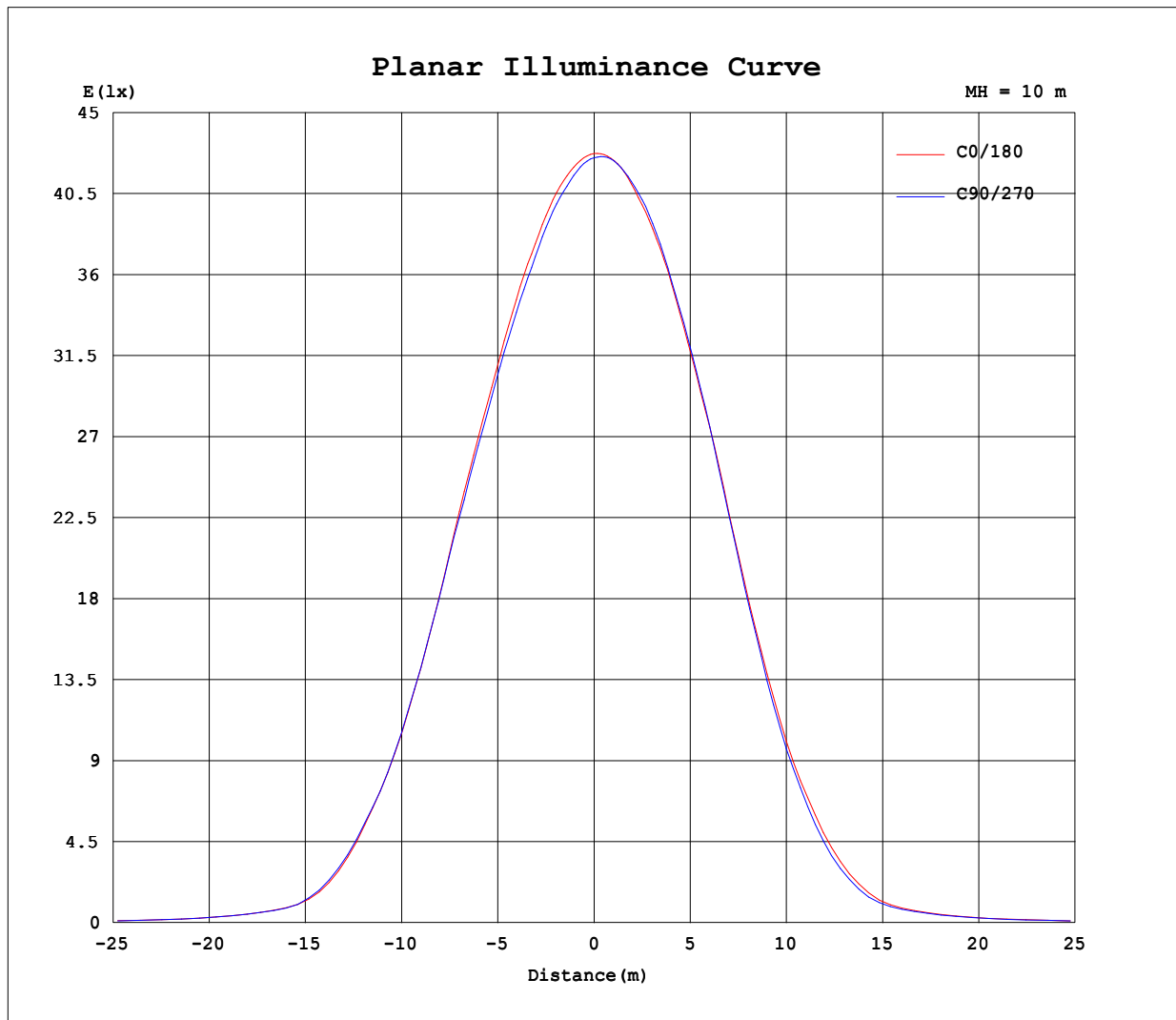
Test:U:220.9V I:0.4548A P:99.01W PF:0.9854 Lamp Flux:9874x1 lm		
NAME: BT-LON-100W-100D	TYPE:LENS	WEIGHT:3kg
SPEC.:5000K R80 48LEDs 100D	DIM.: D200*H183mm	SERIAL No.:
MFR.: EVERFINE	SUR.:163*163mm	PROTECTION ANGLE:



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:

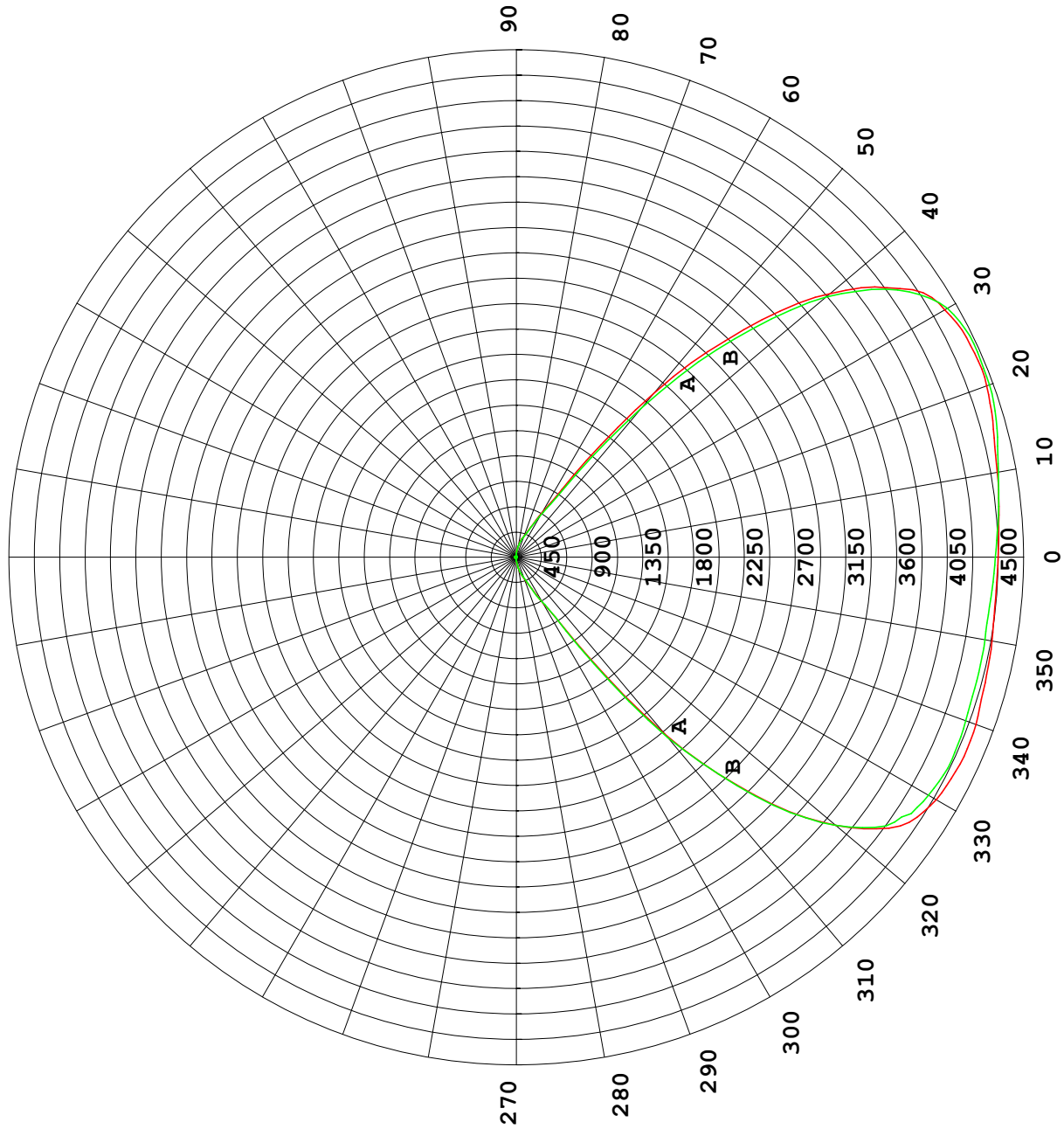
Planar Illuminance Curve

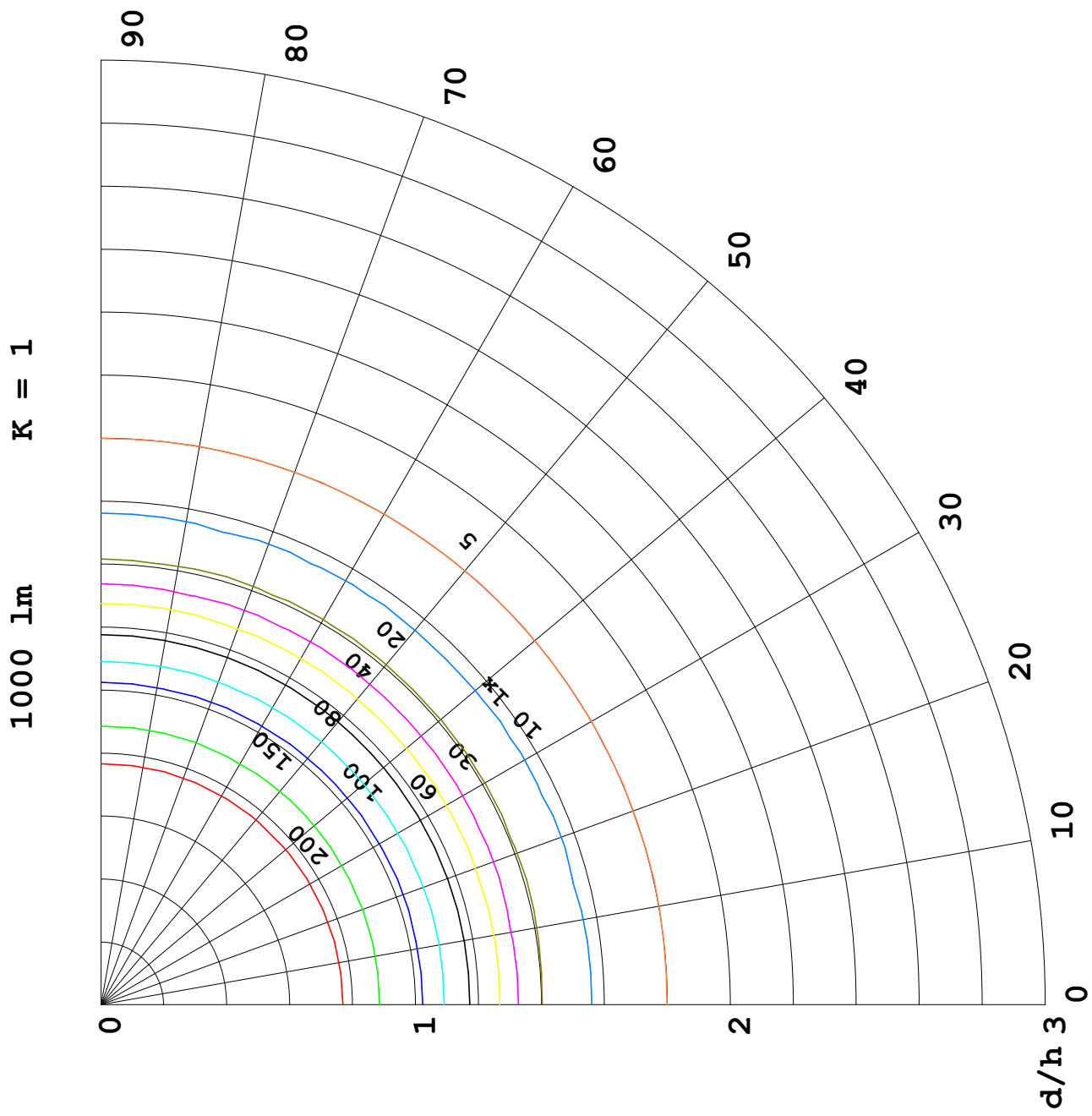


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators:
Test Date: 2015-06-05

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)





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

