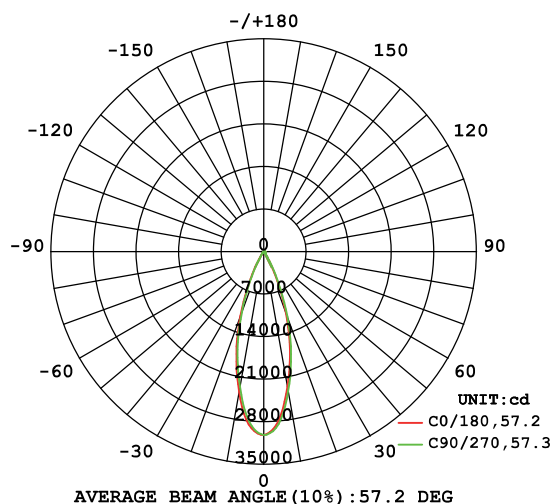


LUMINAIRE PHOTOMETRIC TEST REPORT

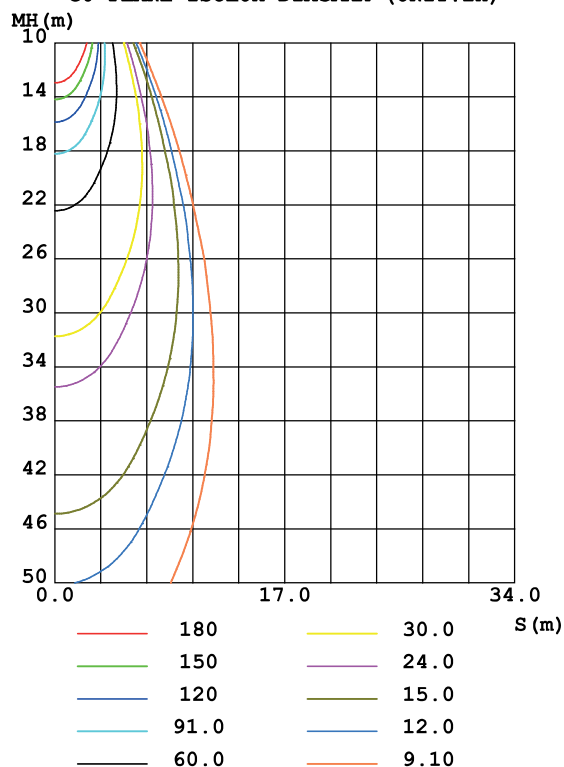
NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.69 lm/W			
MODEL	CREE-XTE	I _{max} (cd)	30161	S/MH (C0/180)	0.54
NOMINAL POWER (W)	88.1	LOR (%)	66.7	S/MH (C90/270)	0.56
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	10938	η UP, DN (C0-180)	0.0, 33.2
NOMINAL FLUX (lm)	164.008	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 33.5
LAMPS INSIDE	100	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	219.8	η down (%)	66.7	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.868m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

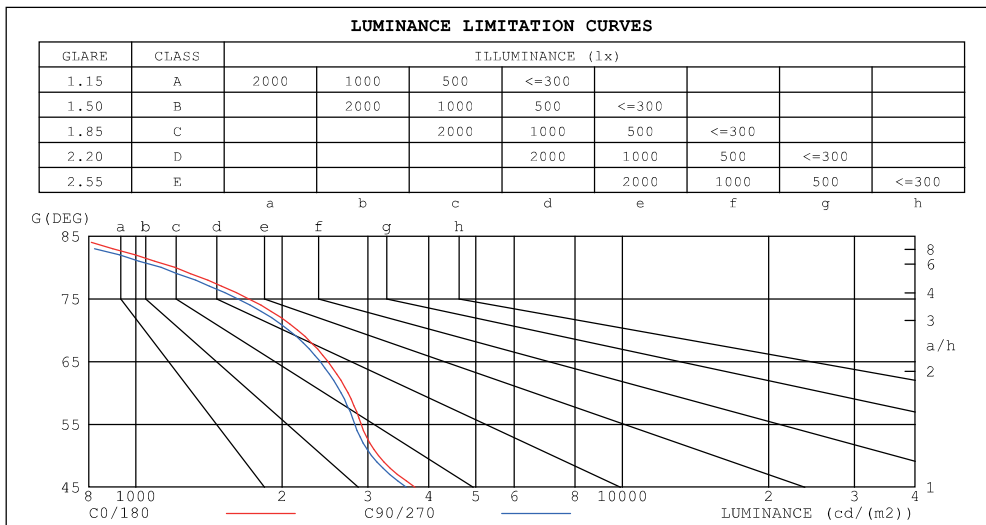
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2341	2313	2266	2264	2256	2285	2331	2334	0- 10	2523	2523	23.1,15.4
20	1128	1105	1060	1067	1067	1093	1141	1130	10- 20	4653	7176	65.6,43.8
30	236.3	231.6	211.4	216.9	214.9	222.7	244.0	238.5	20- 30	2653	9830	89.9,59.9
40	39.75	39.27	37.71	38.31	37.96	38.82	40.27	39.93	30- 40	595.6	10425	95.3,63.6
50	20.24	20.06	19.63	19.78	19.70	20.01	20.35	20.30	40- 50	208.8	10634	97.2,64.8
60	13.64	13.51	13.22	13.32	13.24	13.37	13.64	13.66	50- 60	147.9	10782	98.6,65.7
70	7.341	7.302	7.054	7.131	7.025	7.074	7.299	7.320	60- 70	101.9	10884	99.5,66.4
80	2.087	2.070	1.958	1.960	1.887	1.898	2.017	2.025	70- 80	46.17	10930	99.9,66.6
90	0.1004	0.0992	0.0942	0.0872	0.0736	0.0766	0.0785	0.0859	80- 90	8.061	10938	100,66.7
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd Less than 35% Percent = 5.5 %									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2023-04-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	733	673
80	1203	1127
75	1703	1617
70	2149	2061
65	2482	2393
60	2732	2643
55	2907	2822
50	3152	3052
45	3751	3600

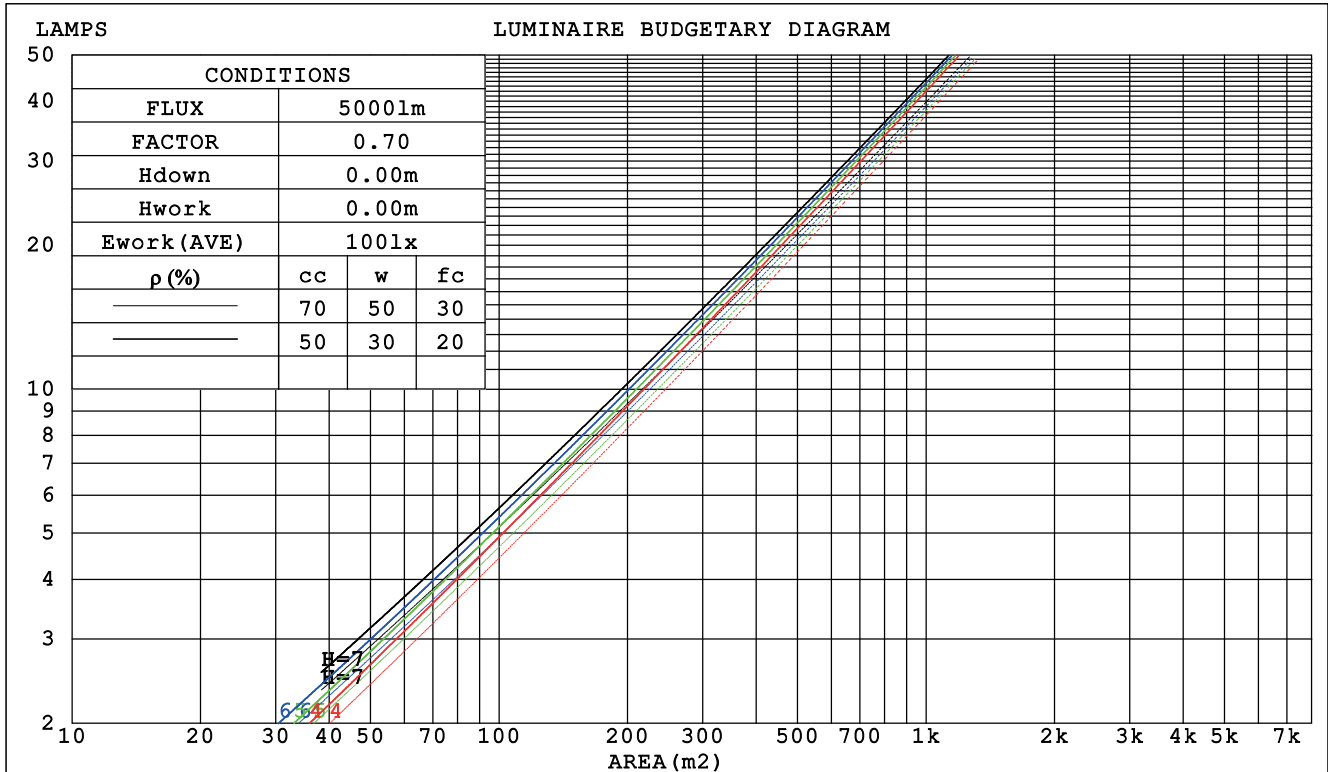
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.868m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding 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	.79	.79	.79	.78	.78	.78	.74	.74	.74	.71	.71	.71	.68	.68	.68	.67
1.0	.75	.73	.72	.73	.72	.71	.71	.69	.69	.68	.67	.67	.66	.65	.65	.63
2.0	.70	.68	.66	.69	.67	.65	.67	.65	.64	.65	.64	.63	.63	.62	.61	.60
3.0	.67	.64	.62	.66	.63	.61	.64	.62	.60	.63	.61	.59	.61	.60	.58	.57
4.0	.63	.60	.58	.63	.60	.58	.61	.59	.57	.60	.58	.56	.59	.57	.56	.55
5.0	.61	.57	.55	.60	.57	.55	.59	.56	.54	.58	.56	.54	.57	.55	.53	.53
6.0	.58	.55	.52	.57	.54	.52	.56	.54	.52	.56	.53	.51	.55	.53	.51	.50
7.0	.55	.52	.50	.55	.52	.50	.54	.52	.50	.54	.51	.49	.53	.51	.49	.48
8.0	.53	.50	.48	.53	.50	.48	.52	.50	.48	.52	.49	.47	.51	.49	.47	.46
9.0	.51	.48	.46	.51	.48	.46	.50	.48	.46	.50	.47	.46	.49	.47	.45	.45
10.0	.49	.46	.44	.49	.46	.44	.49	.46	.44	.48	.46	.44	.48	.45	.44	.43



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zhu
 Test Date: 2023-04-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.868m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding 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	.104	.059	.019	.100	.057	.018	.091	.052	.017	.084	.048	.016	.077	.045	.014		
2.0	.098	.054	.016	.094	.052	.016	.087	.048	.015	.081	.045	.014	.075	.042	.013		
3.0	.092	.049	.015	.089	.047	.014	.083	.045	.014	.077	.042	.013	.072	.040	.012		
4.0	.086	.045	.013	.084	.044	.013	.079	.042	.012	.074	.040	.012	.070	.038	.012		
5.0	.082	.042	.012	.079	.041	.012	.075	.039	.011	.071	.037	.011	.067	.036	.011		
6.0	.077	.039	.011	.075	.038	.011	.072	.037	.011	.068	.035	.010	.065	.034	.010		
7.0	.074	.036	.010	.072	.036	.010	.069	.035	.010	.066	.034	.010	.063	.033	.010		
8.0	.070	.034	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009	.061	.031	.009		
9.0	.067	.032	.009	.066	.032	.009	.063	.031	.009	.061	.030	.009	.059	.030	.009		
10.0	.064	.031	.009	.063	.031	.009	.061	.030	.008	.059	.029	.008	.057	.029	.008		

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	.127	.127	.127	.109	.109	.109	.074	.074	.074	.043	.043	.043	.014	.014	.014	
1.0	.113	.105	.098	.097	.090	.084	.066	.062	.058	.038	.036	.034	.012	.012	.011	
2.0	.102	.088	.077	.087	.076	.067	.060	.053	.046	.035	.031	.027	.011	.010	.009	
3.0	.093	.076	.062	.079	.065	.054	.055	.045	.038	.032	.026	.022	.010	.009	.007	
4.0	.085	.066	.051	.073	.057	.044	.050	.039	.031	.029	.023	.018	.009	.008	.006	
5.0	.078	.058	.042	.067	.050	.037	.046	.035	.026	.027	.020	.015	.009	.007	.005	
6.0	.073	.051	.035	.063	.044	.031	.043	.031	.022	.025	.018	.013	.008	.006	.004	
7.0	.068	.046	.030	.059	.040	.026	.040	.028	.019	.023	.016	.011	.008	.005	.004	
8.0	.064	.041	.026	.055	.036	.023	.038	.025	.016	.022	.015	.010	.007	.005	.003	
9.0	.060	.038	.023	.052	.033	.020	.036	.023	.014	.021	.014	.008	.007	.004	.003	
10.0	.057	.035	.020	.049	.030	.017	.034	.021	.012	.020	.013	.007	.006	.004	.002	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: LEDMADA					SUR.:					Shielding 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					0.2	0.9	0.4	1.1	1.3	-0.1	0.7	0.1	0.8	1.0
3H					0.9	1.6	1.1	1.8	2.0	0.7	1.4	0.9	1.6	1.7
4H					1.1	1.8	1.4	2.0	2.2	0.9	1.6	1.1	1.8	2.0
6H					1.2	1.9	1.5	2.1	2.4	1.0	1.6	1.3	1.9	2.1
8H					1.2	1.9	1.5	2.1	2.4	1.0	1.6	1.3	1.8	2.1
12H					1.2	1.8	1.5	2.1	2.3	0.9	1.5	1.3	1.8	2.1
4H 2H					0.4	1.1	0.7	1.3	1.5	0.2	0.9	0.5	1.1	1.3
3H					1.3	1.9	1.6	2.2	2.5	1.1	1.7	1.4	2.0	2.2
4H					1.6	2.2	2.0	2.5	2.8	1.4	2.0	1.8	2.3	2.6
6H					1.8	2.3	2.2	2.6	2.9	1.6	2.1	1.9	2.4	2.7
8H					1.8	2.3	2.2	2.6	3.0	1.6	2.0	2.0	2.4	2.7
12H					1.8	2.2	2.2	2.6	3.0	1.6	2.0	2.0	2.3	2.7
8H 4H					1.7	2.1	2.1	2.5	2.9	1.5	1.9	1.9	2.3	2.7
6H					1.9	2.3	2.3	2.7	3.1	1.7	2.1	2.1	2.5	2.9
8H					1.9	2.3	2.4	2.7	3.1	1.7	2.0	2.2	2.5	2.9
12H					1.9	2.2	2.4	2.6	3.1	1.7	2.0	2.2	2.4	2.9
12H 4H					1.7	2.1	2.1	2.4	2.8	1.5	1.9	1.9	2.2	2.6
6H					1.9	2.2	2.3	2.6	3.1	1.7	2.0	2.1	2.4	2.8
8H					1.9	2.2	2.4	2.6	3.1	1.7	2.0	2.2	2.4	2.9
Variations with the observer position at spacings:														
S = 1.0H					+ 0.7 / - 0.7					+ 0.6 / - 0.7				
1.5H					+ 1.3 / - 0.6					+ 1.1 / - 0.6				
2.0H					+ 0.5 / - 0.4					+ 0.5 / - 0.4				

CIE Pub.117, 16401 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.7)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:

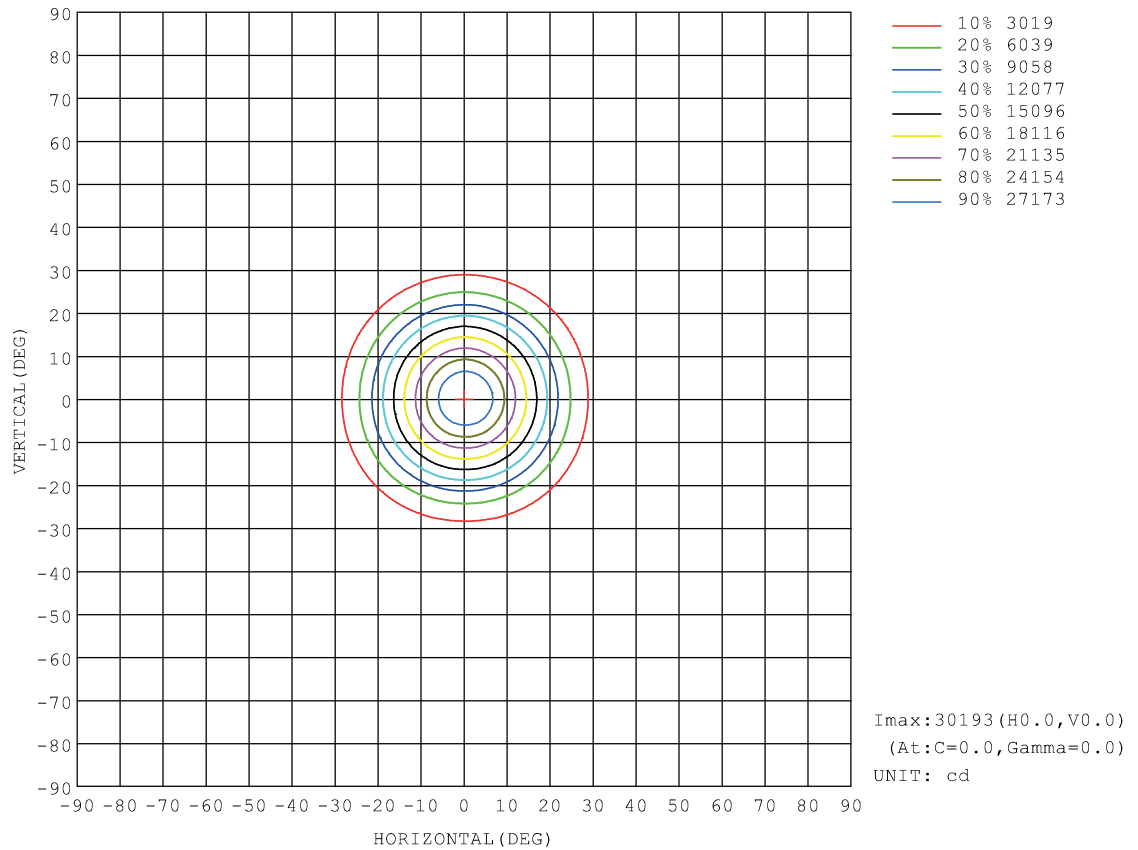
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	55	53	59	55	53	58	55	52	50
0.80	64	60	58	63	60	58	63	60	57	55
1.00	67	63	61	66	63	61	65	63	60	58
1.25	69	66	64	68	65	63	67	65	63	60
1.50	71	68	66	70	67	65	69	66	65	62
2.00	73	70	68	72	69	67	70	68	66	63
2.50	74	71	69	73	70	69	71	69	67	63
3.00	75	72	71	73	72	70	71	70	68	64
4.00	76	74	73	75	73	72	72	71	70	65
5.00	77	75	74	75	74	73	73	72	71	66
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zhu
 Test Date: 2023-04-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.868m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:

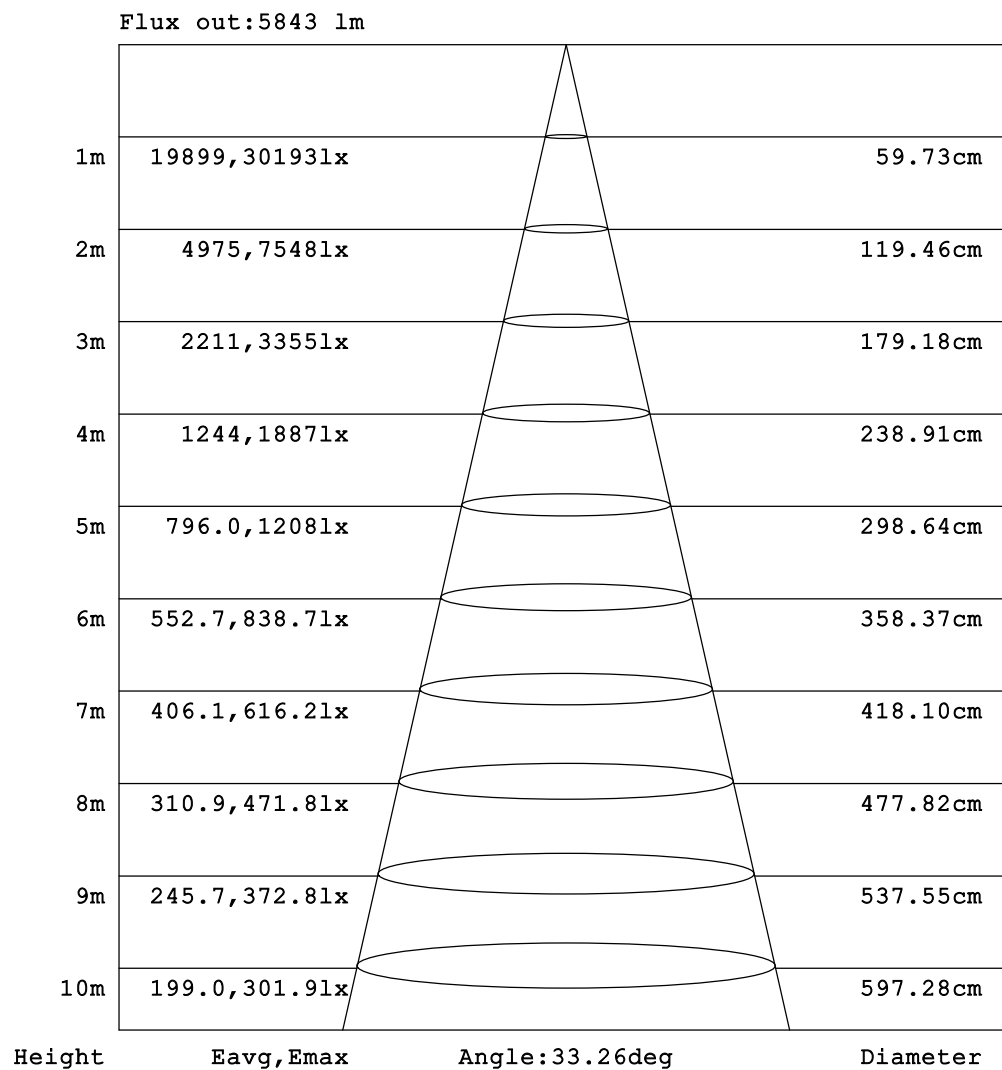


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

AAI Figure

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:



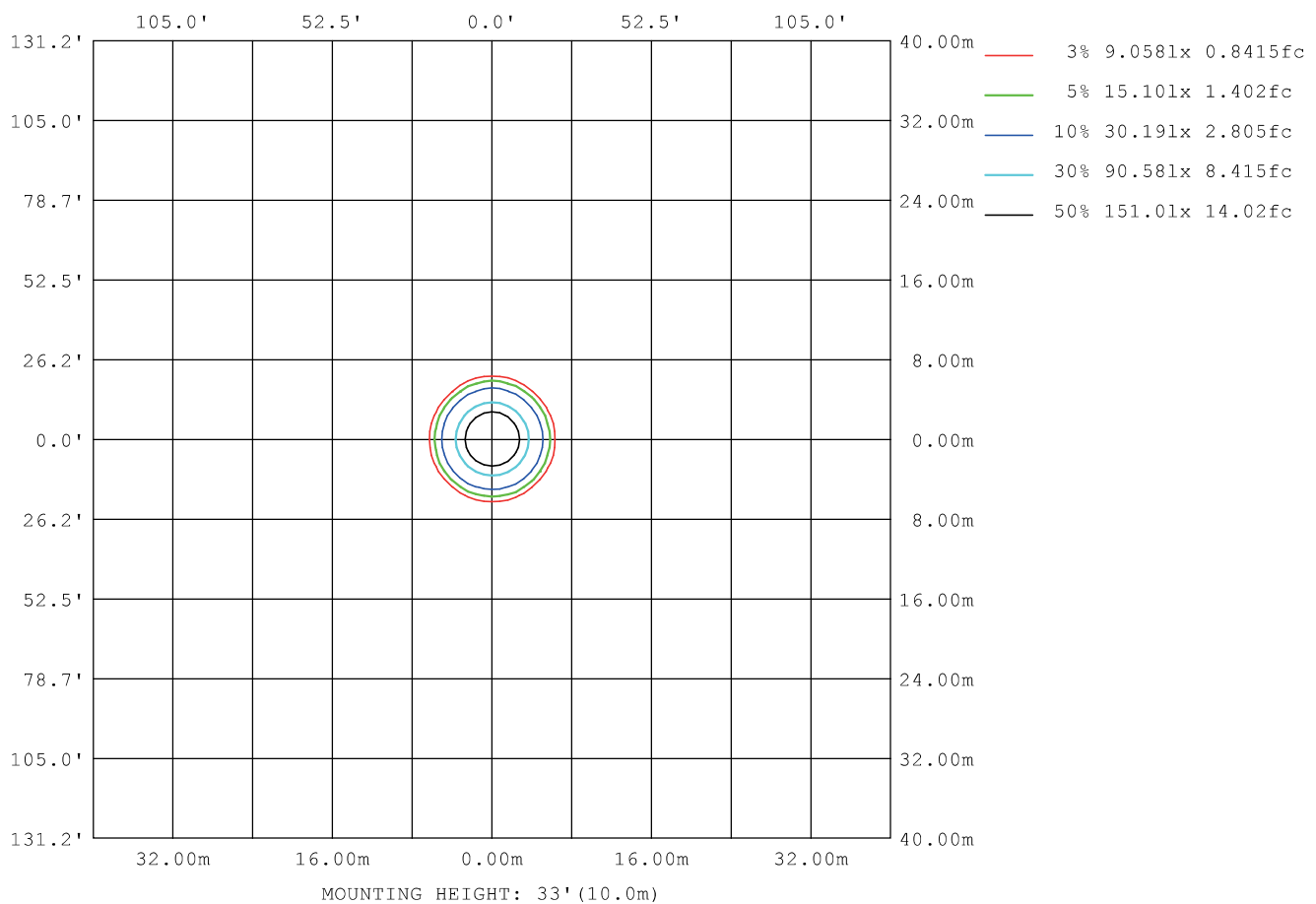
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.868m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.868m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: PS-100-CREE (60W-120W, 5000K, 60 DEG)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:

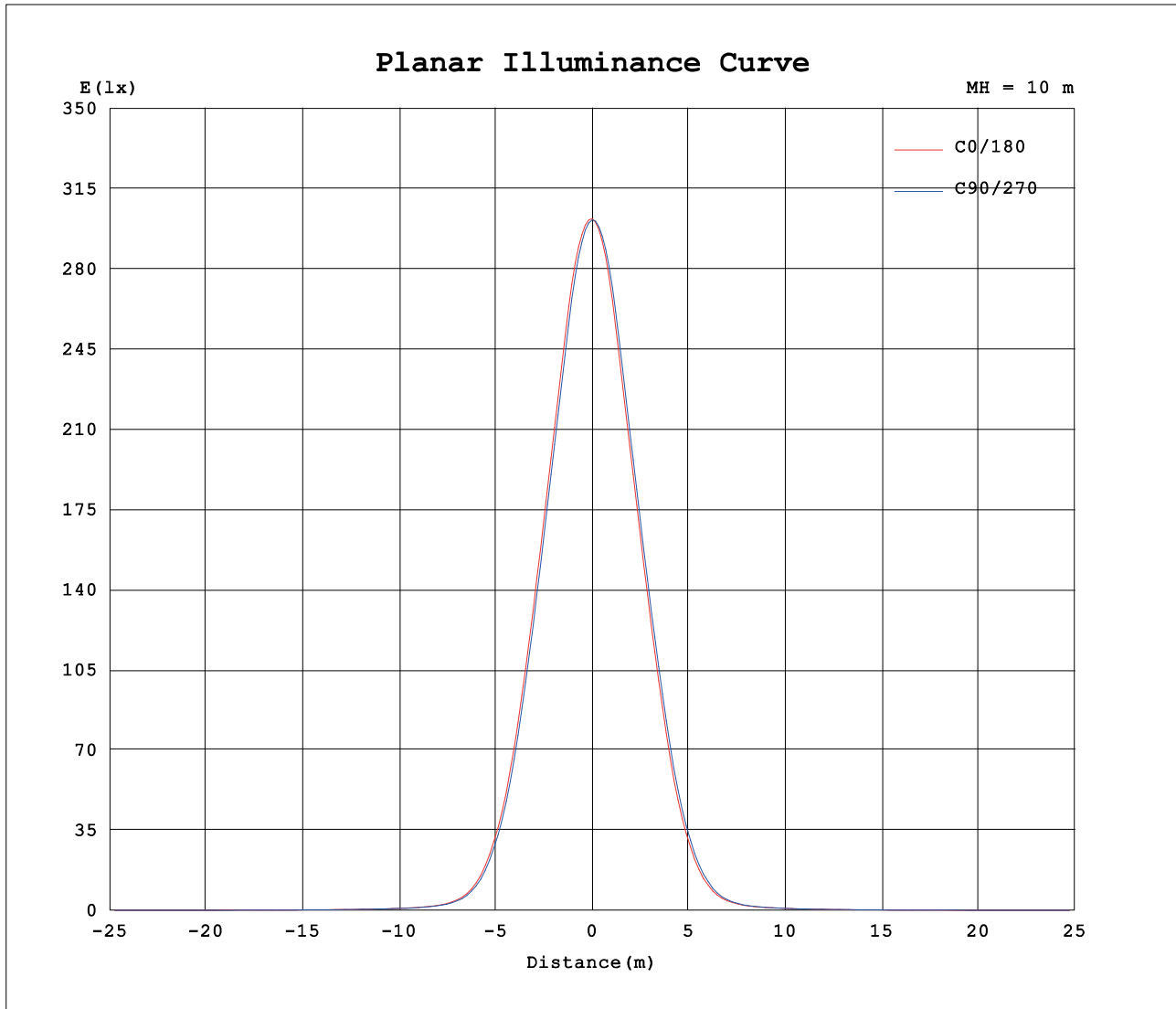
AvgL	cd/m2
L_0~180 (65) av	2436
L_0~180 (75) av	1649
L_0~180 (85) av	675
L_90~270 (65) av	2432
L_90~270 (75) av	1646
L_90~270 (85) av	676
L_45 (65) av	2439
L_45 (75) av	1654
L_45 (85) av	677

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2023-04-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zhu
 Test Date: 2023-04-17

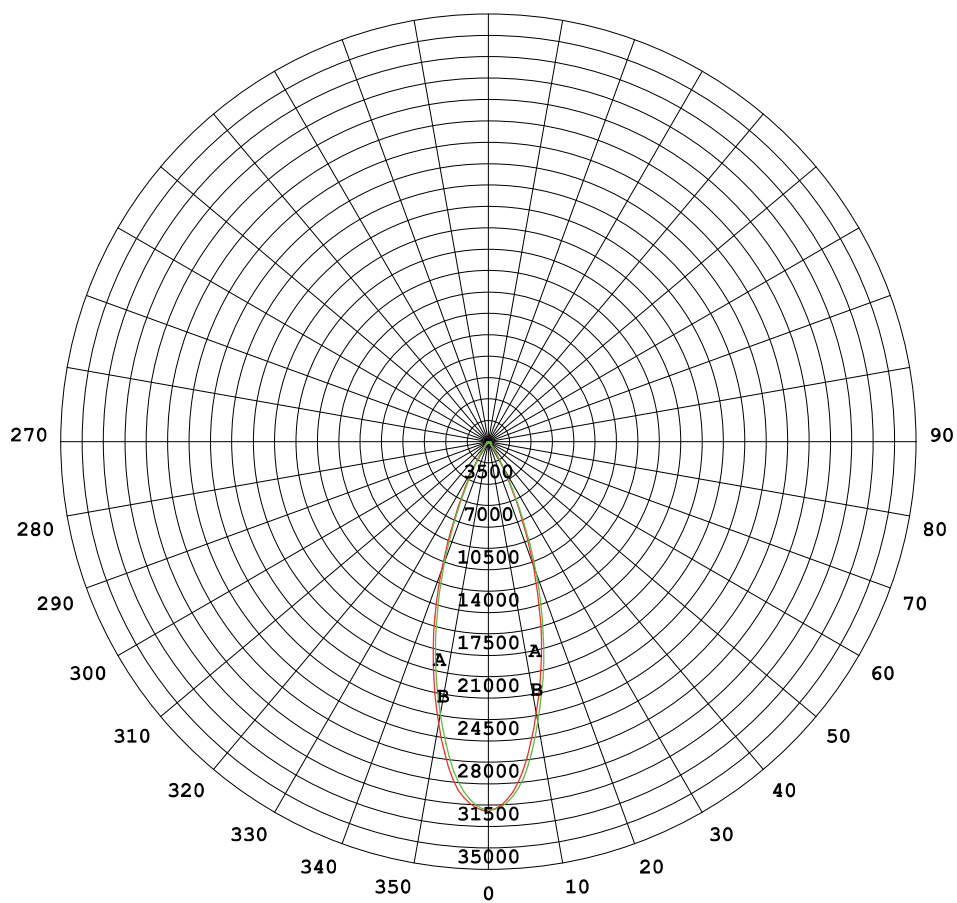
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.868m [K=1.0000]
 Remarks:

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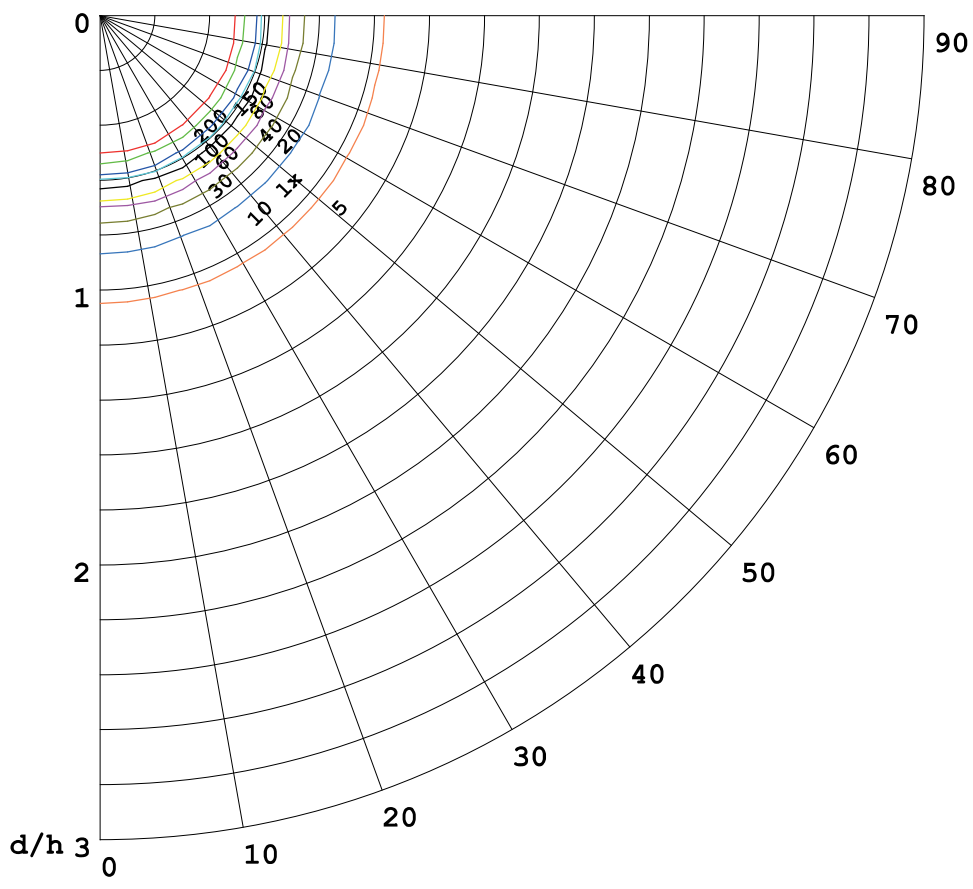
Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

```

I (cd)



1000 lm $K = 1$



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

