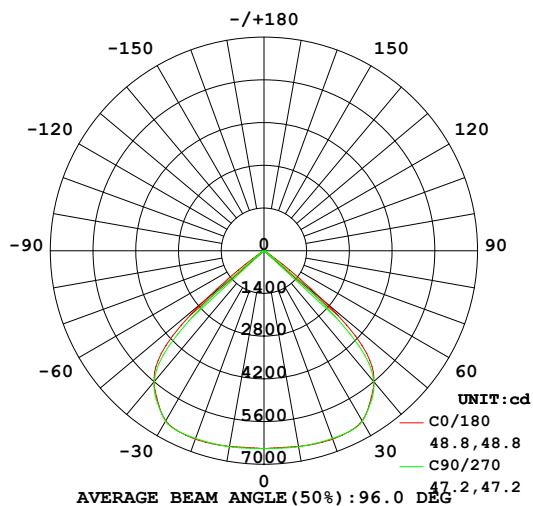


## LUMINAIRE PHOTOMETRIC TEST REPORT

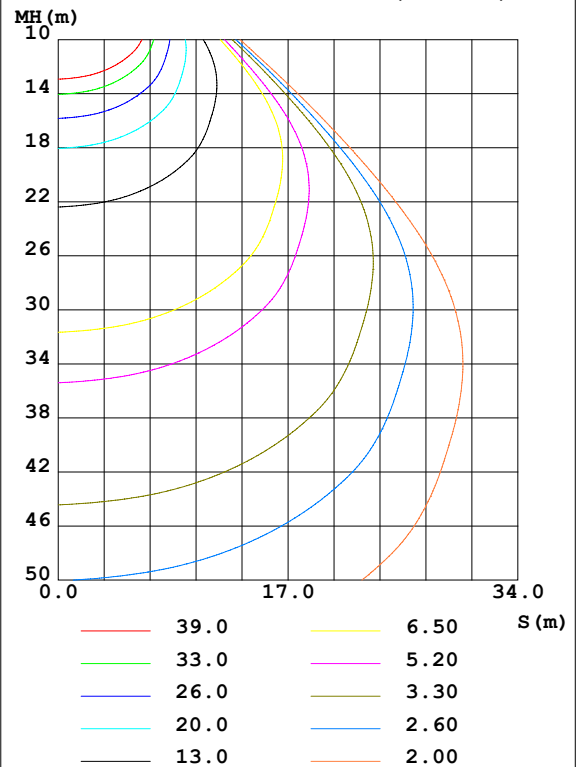
Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.41 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	6570	S/MH (C0/180)	1.43
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.40
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	13561	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	13561.3	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.633m [K=0.9852]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	6510	6488	6520	6488	6510	6488	6520	6488	0- 10	618.9	618.9	4.56,4.56
20	6569	6528	6549	6528	6569	6528	6549	6528	10- 20	1849	2468	18.2,18.2
30	6434	6510	6449	6510	6434	6510	6449	6510	20- 30	3027	5495	40.5,40.5
40	5604	5821	5600	5821	5604	5821	5600	5821	30- 40	3860	9354	69,69
50	2552	2550	1447	2550	2552	2550	1447	2550	40- 50	3499	12854	94.8,94.8
60	108.1	107.9	92.29	107.9	108.1	107.9	92.29	107.9	50- 60	581.4	13435	99.1,99.1
70	54.86	55.03	50.99	55.03	54.86	55.03	50.99	55.03	60- 70	72.53	13508	99.6,99.6
80	26.18	25.68	20.07	25.68	26.18	25.68	20.07	25.68	70- 80	42.43	13550	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	11.28	13561	100,100
100	0	0	0	0	0	0	0	0	90-100	0	13561	100,100
110	0	0	0	0	0	0	0	0	100-110	0	13561	100,100
120	0	0	0	0	0	0	0	0	110-120	0	13561	100,100
130	0	0	0	0	0	0	0	0	120-130	0	13561	100,100
140	0	0	0	0	0	0	0	0	130-140	0	13561	100,100
150	0	0	0	0	0	0	0	0	140-150	0	13561	100,100
160	0	0	0	0	0	0	0	0	150-160	0	13561	100,100
170	0	0	0	0	0	0	0	0	160-170	0	13561	100,100
180	0	0	0	0	0	0	0	0	170-180	0	13561	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11341 lm

%lum = 83.6%

%lamp = 83.6%

Conical surface Flux(120deg): 13435 lm

%lum = 99.1%

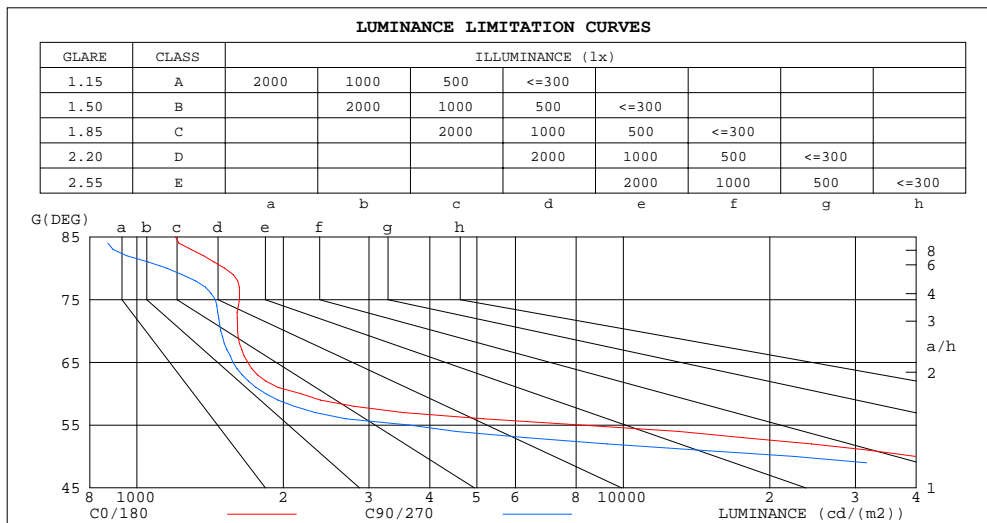
%lamp = 99.1%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=0.9852]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1201	791
80	1514	1152
75	1625	1449
70	1611	1487
65	1691	1576
60	2172	1841
55	8181	3629
50	39872	22447
45	67651	61898

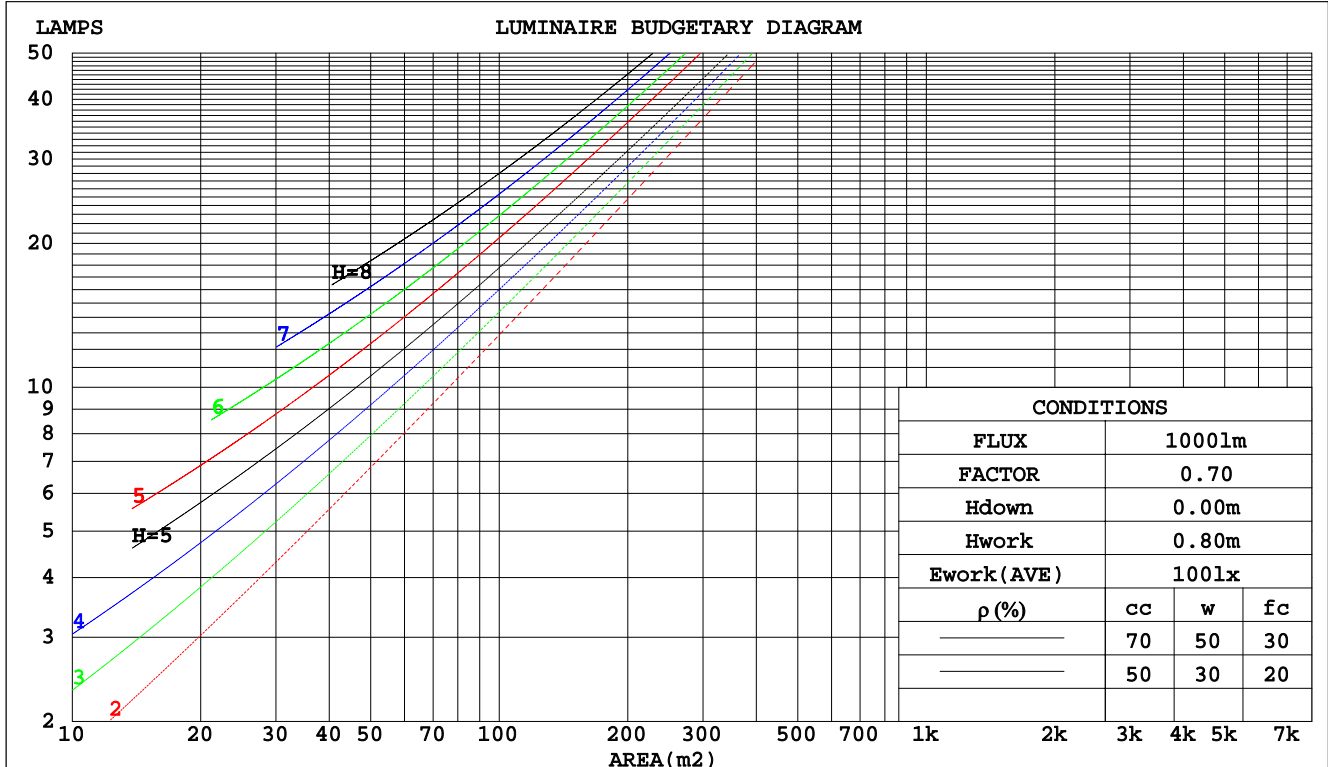
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=0.9852]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	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	1.00
1.0	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.00	.98	.99	.97	.95	.95	.94	.93	.91
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81
3.0	.90	.84	.79	.89	.83	.78	.86	.81	.77	.83	.79	.76	.81	.78	.75	.73
4.0	.82	.75	.70	.81	.74	.69	.78	.73	.69	.76	.72	.68	.74	.70	.67	.65
5.0	.75	.68	.62	.74	.67	.62	.72	.66	.61	.70	.65	.61	.68	.64	.60	.58
6.0	.68	.61	.56	.67	.60	.55	.66	.60	.55	.64	.59	.55	.63	.58	.54	.52
7.0	.63	.55	.50	.62	.55	.50	.60	.54	.50	.59	.53	.49	.58	.53	.49	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.49	.45	.55	.49	.45	.53	.48	.44	.43
9.0	.53	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.50	.44	.40	.39
10.0	.49	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.37	.35



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=0.9852]  
 Remarks:

## WEC AND CCEC

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	.213	.121	.038	.207	.118	.037	.194	.111	.036	.182	.105	.034	.171	.099	.032		
2.0	.209	.115	.035	.203	.112	.034	.192	.107	.033	.182	.102	.032	.173	.098	.031		
3.0	.201	.107	.032	.196	.105	.032	.187	.101	.031	.178	.098	.030	.170	.094	.029		
4.0	.193	.100	.029	.188	.099	.029	.180	.095	.029	.172	.093	.028	.165	.090	.027		
5.0	.184	.094	.027	.180	.093	.027	.173	.090	.026	.166	.088	.026	.159	.085	.026		
6.0	.176	.088	.025	.172	.087	.025	.165	.085	.025	.159	.083	.024	.154	.081	.024		
7.0	.167	.083	.023	.164	.082	.023	.158	.080	.023	.153	.078	.023	.148	.077	.023		
8.0	.159	.078	.022	.157	.077	.022	.151	.076	.022	.146	.074	.021	.142	.073	.021		
9.0	.152	.074	.021	.149	.073	.020	.145	.072	.020	.140	.070	.020	.136	.069	.020		
10.0	.145	.070	.019	.143	.069	.019	.138	.068	.019	.134	.067	.019	.130	.066	.019		

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	.174	.157	.142	.149	.135	.122	.102	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.130	.098	.073	.089	.068	.051	.051	.040	.030	.017	.013	.010	
4.0	.143	.100	.067	.123	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.031	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.077	.049	.027	.044	.029	.016	.014	.009	.005	
7.0	.124	.073	.038	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.102	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.113	.062	.028	.097	.054	.024	.068	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.108	.058	.024	.093	.050	.021	.065	.035	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=0.9852]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-100WoH					DIM.: $\phi$ 0.248*0.138M			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi$ 0.16M			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	15.0	16.2	15.2	16.4	16.6	14.5	15.7	14.7	15.9	16.1
3H	14.8	15.9	15.1	16.1	16.3	14.3	15.4	14.6	15.6	15.8
4H	14.7	15.8	15.0	16.0	16.2	14.2	15.2	14.5	15.5	15.7
6H	14.6	15.6	14.9	15.8	16.1	14.1	15.1	14.4	15.3	15.6
8H	14.6	15.5	14.9	15.8	16.0	14.1	15.0	14.4	15.3	15.5
12H	14.5	15.4	14.9	15.7	16.0	14.0	14.9	14.3	15.2	15.5
4H 2H	14.7	15.8	15.0	16.0	16.2	14.2	15.2	14.5	15.5	15.7
3H	14.5	15.4	14.9	15.7	16.0	14.0	14.9	14.4	15.2	15.5
4H	14.4	15.2	14.8	15.6	15.9	13.9	14.7	14.3	15.0	15.4
6H	14.4	15.1	14.7	15.4	15.8	13.9	14.6	14.2	14.9	15.2
8H	14.3	15.0	14.7	15.3	15.7	13.8	14.5	14.2	14.8	15.2
12H	14.3	14.9	14.7	15.2	15.6	13.8	14.4	14.2	14.7	15.1
8H 4H	14.3	15.0	14.7	15.3	15.7	13.8	14.5	14.2	14.8	15.2
6H	14.2	14.8	14.7	15.2	15.6	13.7	14.3	14.2	14.7	15.1
8H	14.2	14.7	14.6	15.1	15.5	13.7	14.1	14.1	14.6	15.0
12H	14.1	14.5	14.6	15.0	15.5	13.6	14.0	14.1	14.5	14.9
12H 4H	14.3	14.9	14.7	15.2	15.6	13.8	14.4	14.2	14.7	15.1
6H	14.2	14.6	14.6	15.1	15.5	13.7	14.1	14.1	14.6	15.0
8H	14.1	14.5	14.6	15.0	15.5	13.6	14.0	14.1	14.5	14.9
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / -12.6					+ 3.0 / -13.9				
1.5H	+ 2.2 / -11.9					+ 2.1 / -13.4				
2.0H	+ 6.2 / -14.0					+ 6.7 / -13.5				

CIE Pub.117, 13561 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 9.1$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=0.9852]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

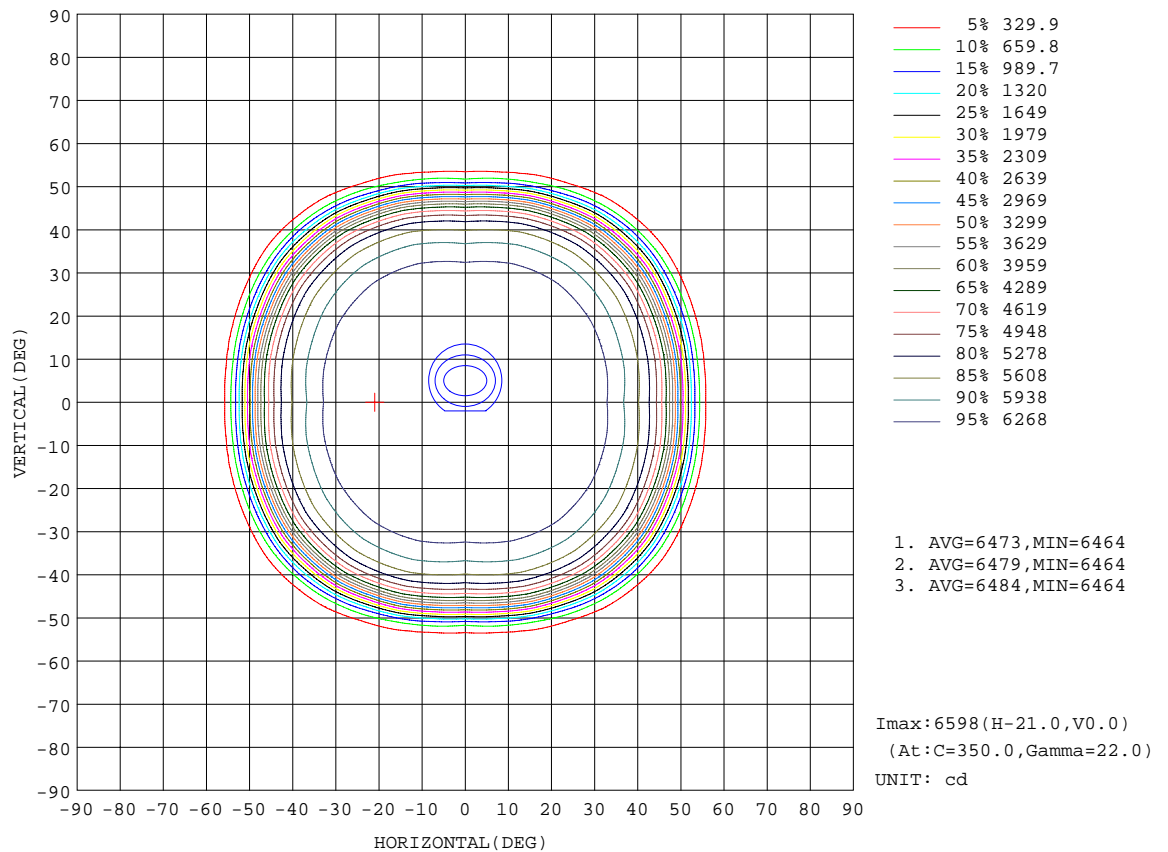
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	57	71	62	57	70	62	57	52
0.80	82	73	68	81	73	68	80	72	67	62
1.00	90	82	77	89	81	76	87	82	76	71
1.25	96	89	84	94	88	83	92	87	82	77
1.50	100	93	88	98	92	88	96	91	87	81
2.00	104	99	95	103	98	94	100	96	92	86
2.50	107	101	97	105	100	97	101	98	95	88
3.00	109	104	101	107	103	100	103	100	97	90
4.00	111	107	104	109	106	103	105	102	100	93
5.00	113	109	107	110	107	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=0.9852]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



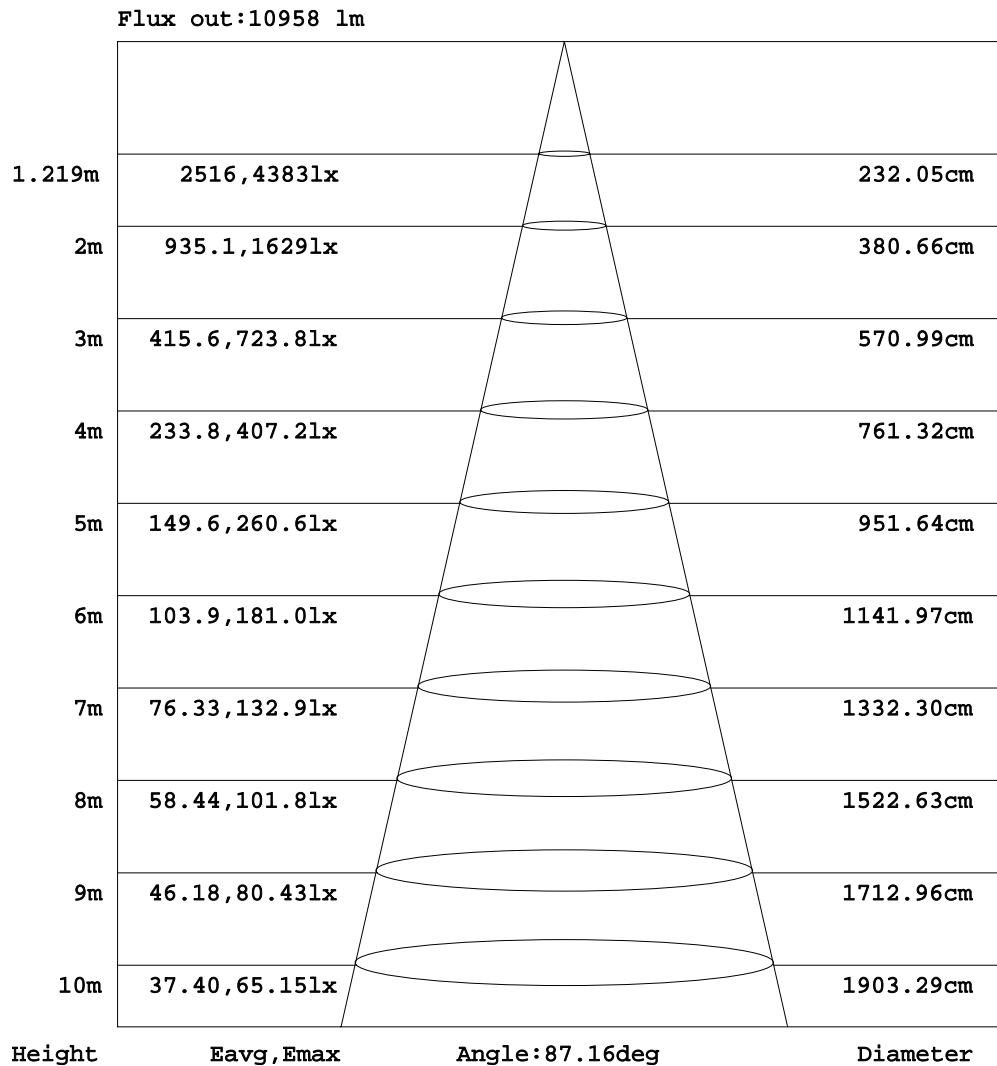
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=0.9852]  
 Remarks:



## AAI Figure

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



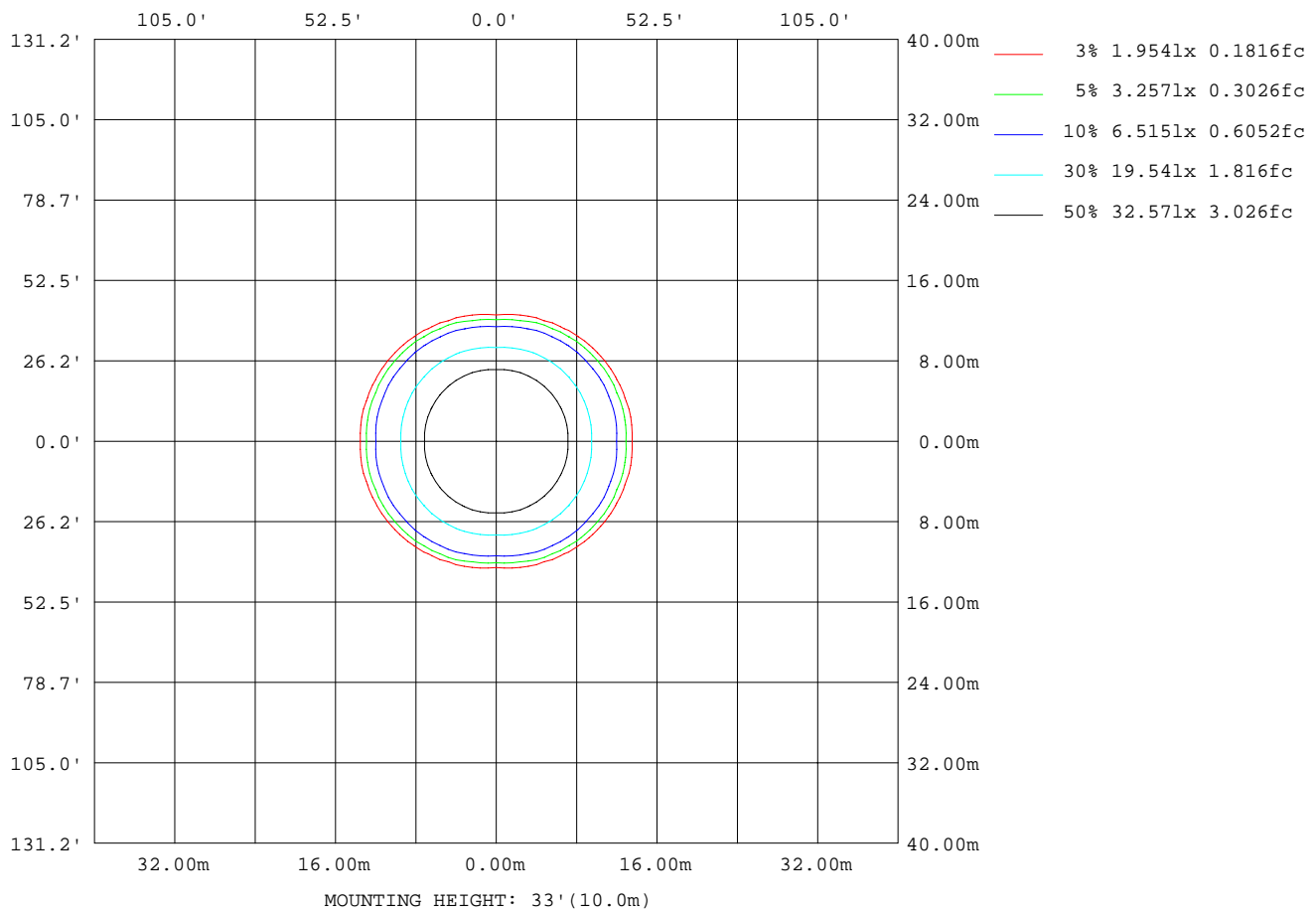
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=0.9852]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\Phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi 0.16\text{M}$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=0.9852]  
Remarks:

## LED Avg.L Report

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

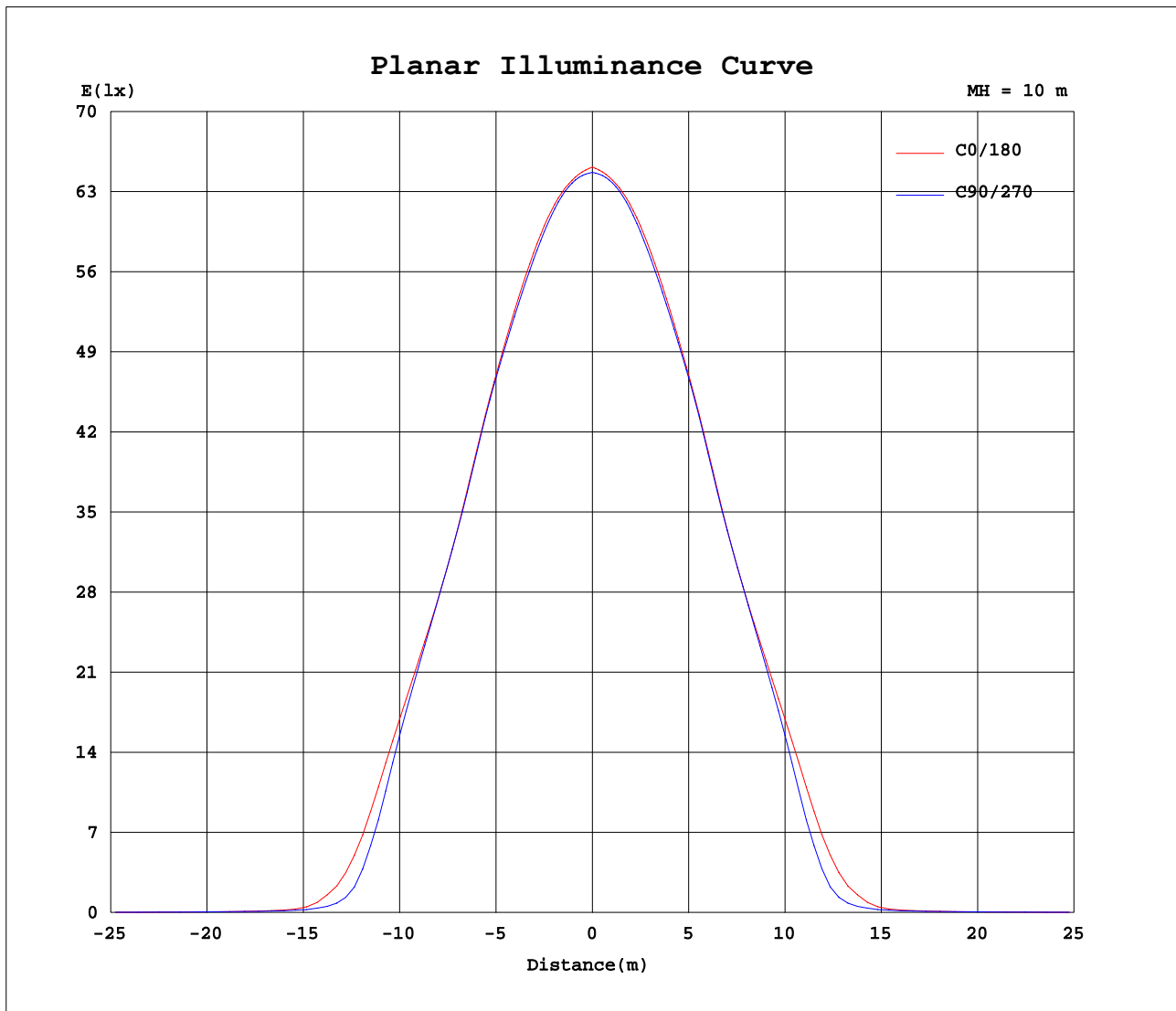
AvgL	cd/m2
L_0~180 (65) av	1684
L_0~180 (75) av	1618
L_0~180 (85) av	1196
L_90~270 (65) av	1580
L_90~270 (75) av	1453
L_90~270 (85) av	793
L_45 (65) av	1712
L_45 (75) av	1591
L_45 (85) av	1161

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=0.9852]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=0.9852]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486
5	6473	6469	6469	6467	6470	6471	6476	6480	6488	6494	6488	6480	6476	6471	6470	6467	6469	6469	6473
10	6510	6502	6497	6491	6489	6488	6492	6497	6509	6520	6509	6497	6492	6488	6489	6491	6497	6502	6510
15	6548	6538	6530	6516	6508	6502	6504	6509	6521	6535	6521	6509	6504	6502	6508	6516	6530	6538	6548
20	6569	6565	6559	6545	6533	6523	6520	6522	6534	6549	6534	6522	6520	6523	6533	6545	6559	6565	6569
25	6552	6564	6568	6563	6554	6544	6539	6537	6545	6553	6545	6537	6539	6544	6554	6563	6568	6564	6552
30	6434	6471	6492	6509	6510	6510	6502	6493	6473	6449	6473	6493	6502	6510	6510	6509	6492	6471	6434
35	6057	6129	6163	6201	6213	6228	6208	6188	6140	6091	6140	6188	6208	6228	6213	6201	6163	6129	6057
40	5604	5691	5740	5795	5814	5828	5799	5768	5684	5600	5684	5768	5799	5828	5814	5795	5740	5691	5604
45	4763	4899	4958	5028	4995	4990	4885	4786	4566	4389	4566	4786	4885	4990	4995	5028	4958	4899	4763
50	2552	2716	2683	2735	2571	2530	2227	2067	1678	1447	1678	2067	2227	2530	2571	2735	2683	2716	2552
55	467	508	463	457	387	353	282	275	210	209	210	275	282	353	387	457	463	508	467
60	108	111	111	112	111	105	99.8	97.6	93.8	92.3	93.8	97.6	99.8	105	111	112	111	111	108
65	71.2	72.0	72.1	72.7	72.3	72.2	70.7	69.4	67.8	66.8	67.8	69.4	70.7	72.2	72.3	72.7	72.1	72.0	71.2
70	54.9	55.1	54.9	55.3	54.9	55.1	54.1	53.1	51.8	51.0	51.8	53.1	54.1	55.1	54.9	55.3	54.9	55.1	54.9
75	41.9	41.6	41.3	41.6	41.1	41.2	40.4	39.8	38.8	37.6	38.8	39.8	40.4	41.2	41.1	41.6	41.3	41.6	41.9
80	26.2	27.1	26.7	27.0	25.9	25.5	24.1	23.3	21.4	20.1	21.4	23.3	24.1	25.5	25.9	27.0	26.7	27.1	26.2
85	10.4	10.8	10.6	10.7	10.2	10.0	9.31	8.83	7.75	6.91	7.75	8.83	9.31	10.0	10.2	10.7	10.6	10.8	10.4
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=0.9852]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.5150A P:103.2W PF:0.9863 Freq:49.99Hz Lamp Flux:13561.3x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:2.9KG		
SPEC.:AOK-100WoH									DIM.: $\phi$ 0.248*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.16M						Shielding Angle:		

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486	6486		
5	6469	6469	6467	6470	6471	6476	6480	6488	6494	6488	6480	6476	6471	6470	6467	6469	6469		
10	6502	6497	6491	6489	6488	6492	6497	6509	6520	6509	6497	6492	6488	6489	6491	6497	6502		
15	6538	6530	6516	6508	6502	6504	6509	6521	6535	6521	6509	6504	6502	6508	6516	6530	6538		
20	6565	6559	6545	6533	6523	6520	6522	6534	6549	6534	6522	6520	6523	6533	6545	6559	6565		
25	6564	6568	6563	6554	6544	6539	6537	6545	6553	6545	6537	6539	6544	6554	6563	6568	6564		
30	6471	6492	6509	6510	6510	6502	6493	6473	6449	6473	6493	6502	6510	6510	6509	6492	6471		
35	6129	6163	6201	6213	6228	6208	6188	6140	6091	6140	6188	6208	6228	6213	6201	6163	6129		
40	5691	5740	5795	5814	5828	5799	5768	5684	5600	5684	5768	5799	5828	5814	5795	5740	5691		
45	4899	4958	5028	4995	4990	4885	4786	4566	4389	4566	4786	4885	4990	4995	5028	4958	4899		
50	2716	2683	2735	2571	2530	2227	2067	1678	1447	1678	2067	2227	2530	2571	2735	2683	2716		
55	508	463	457	387	353	282	275	210	209	210	275	282	353	387	457	463	508		
60	111	111	112	111	105	99.8	97.6	93.8	92.3	93.8	97.6	99.8	105	111	112	111	111		
65	72.0	72.1	72.7	72.3	72.2	70.7	69.4	67.8	66.8	67.8	69.4	70.7	72.2	72.3	72.7	72.1	72.0		
70	55.1	54.9	55.3	54.9	55.1	54.1	53.1	51.8	51.0	51.8	53.1	54.1	55.1	54.9	55.3	54.9	55.1		
75	41.6	41.3	41.6	41.1	41.2	40.4	39.8	38.8	37.6	38.8	39.8	40.4	41.2	41.1	41.6	41.3	41.6		
80	27.1	26.7	27.0	25.9	25.5	24.1	23.3	21.4	20.1	21.4	23.3	24.1	25.5	25.9	27.0	26.7	27.1		
85	10.8	10.6	10.7	10.2	10.0	9.31	8.83	7.75	6.91	7.75	8.83	9.31	10.0	10.2	10.7	10.6	10.8		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=0.9852]  
 Remarks: