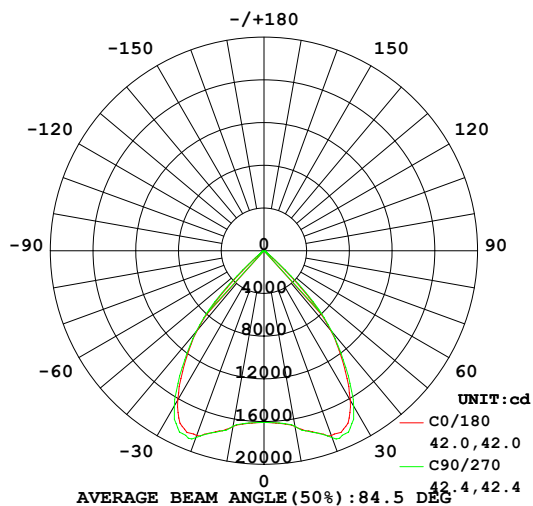


## LUMINAIRE PHOTOMETRIC TEST REPORT

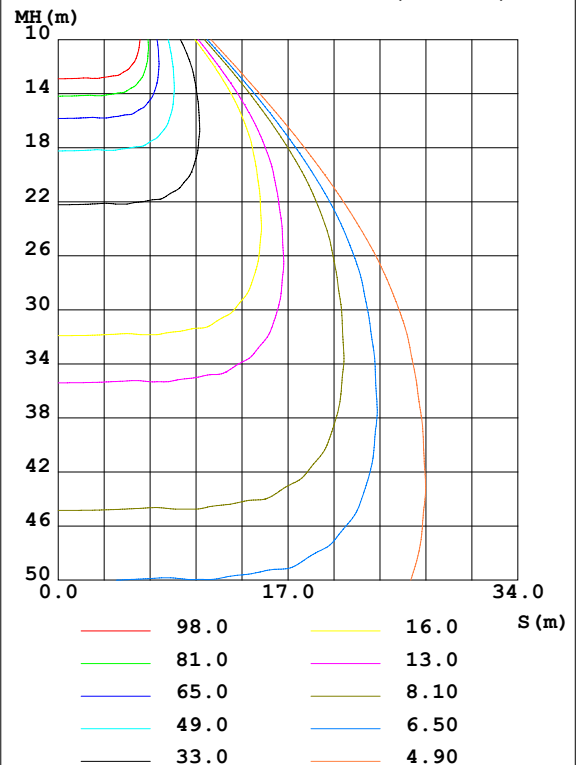
Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm					
NAME: AOK oH		TYPE:LED		WEIGHT:6.0KG	
SPEC.:AOK-200Woh-3030-90D-PC		DIM.: $\phi 0.4 \times 0.141M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.29M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.94 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	18933	S/MH (C0/180)	1.22
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	27935	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	27935.2	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.25

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:2017-12-29

$\gamma$  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=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1670	1660	1668	1660	1670	1660	1668	1660	0- 10	1559	1559	5.58,5.58
20	1842	1842	1861	1842	1842	1842	1861	1842	10- 20	5001	6560	23.5,23.5
30	1615	1675	1678	1675	1615	1675	1678	1675	20- 30	8332	14892	53.3,53.3
40	974.2	982.8	991.8	982.8	974.2	982.8	991.8	982.8	30- 40	8269	23160	82.9,82.9
50	109.2	120.0	131.9	120.0	109.2	120.0	131.9	120.0	40- 50	4020	27180	97.3,97.3
60	20.96	22.51	22.21	22.51	20.96	22.51	22.21	22.51	50- 60	432.4	27613	98.8,98.8
70	12.97	13.50	13.26	13.50	12.97	13.50	13.26	13.50	60- 70	165.4	27778	99.4,99.4
80	6.978	7.313	7.285	7.313	6.978	7.313	7.285	7.313	70- 80	110.2	27888	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	47.04	27935	100,100
100	0	0	0	0	0	0	0	0	90-100	0	27935	100,100
110	0	0	0	0	0	0	0	0	100-110	0	27935	100,100
120	0	0	0	0	0	0	0	0	110-120	0	27935	100,100
130	0	0	0	0	0	0	0	0	120-130	0	27935	100,100
140	0	0	0	0	0	0	0	0	130-140	0	27935	100,100
150	0	0	0	0	0	0	0	0	140-150	0	27935	100,100
160	0	0	0	0	0	0	0	0	150-160	0	27935	100,100
170	0	0	0	0	0	0	0	0	160-170	0	27935	100,100
180	0	0	0	0	0	0	0	0	170-180	0	27935	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 26004 lm

%lum = 93.1%

%lamp = 93.1%

Conical surface Flux(120deg): 27613 lm

%lum = 98.8%

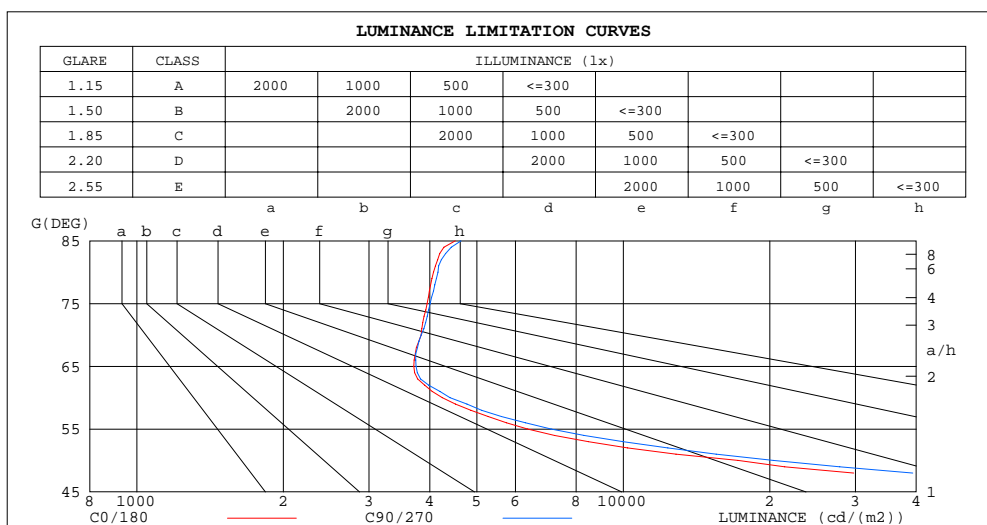
%lamp = 98.8%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-29

$\gamma$  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=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4513	4637
80	4071	4158
75	3950	4006
70	3840	3842
65	3709	3750
60	4246	4403
55	6356	7108
50	17216	20339
45	70122	77723

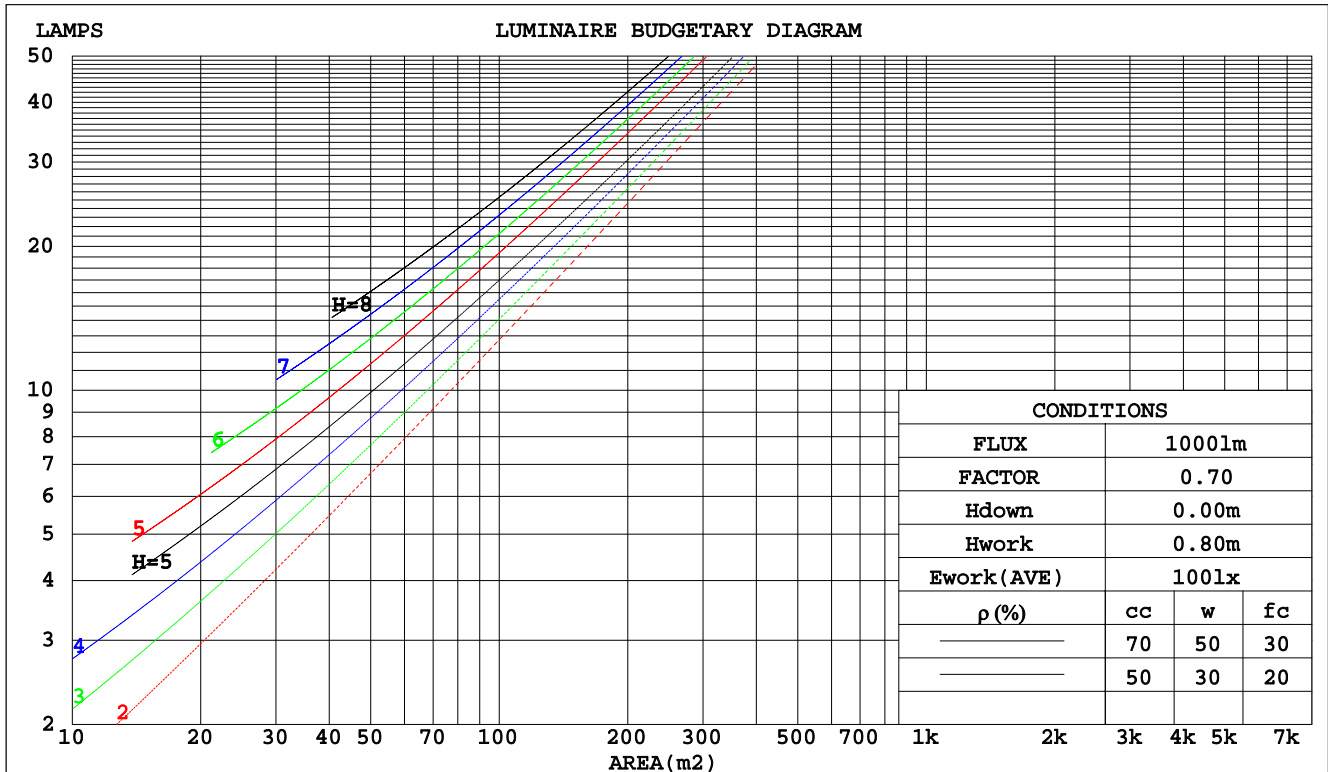
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	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															



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.29M	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	.200	.114	.036	.193	.110	.035	.181	.104	.033	.169	.097	.031	.158	.092	.030	
2.0	.194	.106	.033	.188	.103	.032	.177	.098	.031	.167	.094	.029	.158	.089	.028	
3.0	.186	.099	.030	.181	.097	.029	.171	.093	.028	.163	.089	.027	.155	.086	.026	
4.0	.177	.092	.027	.173	.091	.027	.165	.087	.026	.157	.084	.025	.150	.082	.025	
5.0	.169	.086	.025	.166	.085	.025	.158	.082	.024	.152	.080	.024	.145	.078	.023	
6.0	.162	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.140	.074	.022	
7.0	.154	.076	.022	.151	.075	.022	.146	.074	.021	.140	.072	.021	.135	.070	.021	
8.0	.148	.072	.020	.145	.071	.020	.140	.070	.020	.135	.068	.020	.131	.067	.020	
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018	
10.0	.135	.065	.018	.133	.064	.018	.129	.063	.018	.125	.062	.018	.121	.061	.017	

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.026	.089	.049	.022	.062	.035	.016	.036	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-90D-PC					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi 0.29M$			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	12.2	13.3	12.4	13.5	13.7	12.2	13.3	12.4	13.5	13.7
3H	12.0	13.0	12.3	13.2	13.5	12.0	13.0	12.3	13.2	13.5
4H	11.9	12.9	12.2	13.1	13.4	12.0	12.9	12.2	13.1	13.4
6H	11.9	12.8	12.2	13.0	13.3	11.9	12.8	12.2	13.0	13.3
8H	11.8	12.7	12.1	12.9	13.2	11.8	12.7	12.2	13.0	13.2
12H	11.8	12.6	12.1	12.9	13.2	11.8	12.6	12.1	12.9	13.2
4H 2H	11.9	12.9	12.2	13.1	13.3	11.9	12.9	12.2	13.1	13.3
3H	11.8	12.6	12.1	12.9	13.1	11.8	12.6	12.1	12.9	13.1
4H	11.7	12.4	12.1	12.7	13.1	11.7	12.4	12.1	12.7	13.1
6H	11.6	12.3	12.0	12.6	13.0	11.6	12.3	12.0	12.6	13.0
8H	11.6	12.2	12.0	12.6	12.9	11.6	12.2	12.0	12.6	12.9
12H	11.6	12.1	12.0	12.5	12.9	11.6	12.1	12.0	12.5	12.9
8H 4H	11.6	12.2	12.0	12.5	12.9	11.6	12.2	12.0	12.5	12.9
6H	11.5	12.0	11.9	12.4	12.8	11.5	12.0	12.0	12.4	12.8
8H	11.5	11.9	11.9	12.3	12.8	11.5	11.9	11.9	12.3	12.8
12H	11.5	11.8	11.9	12.3	12.7	11.5	11.8	11.9	12.3	12.8
12H 4H	11.5	12.1	11.9	12.4	12.8	11.5	12.1	11.9	12.5	12.8
6H	11.5	11.9	11.9	12.3	12.8	11.5	11.9	11.9	12.3	12.8
8H	11.5	11.8	11.9	12.3	12.7	11.5	11.8	11.9	12.3	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / -10.5					+ 2.4 / -10.4				
1.5H	+ 4.1 / -10.3					+ 4.0 / -10.4				
2.0H	+ 7.4 / - 6.4					+ 7.6 / - 6.7				

CIE Pub.117, 27935 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.6$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

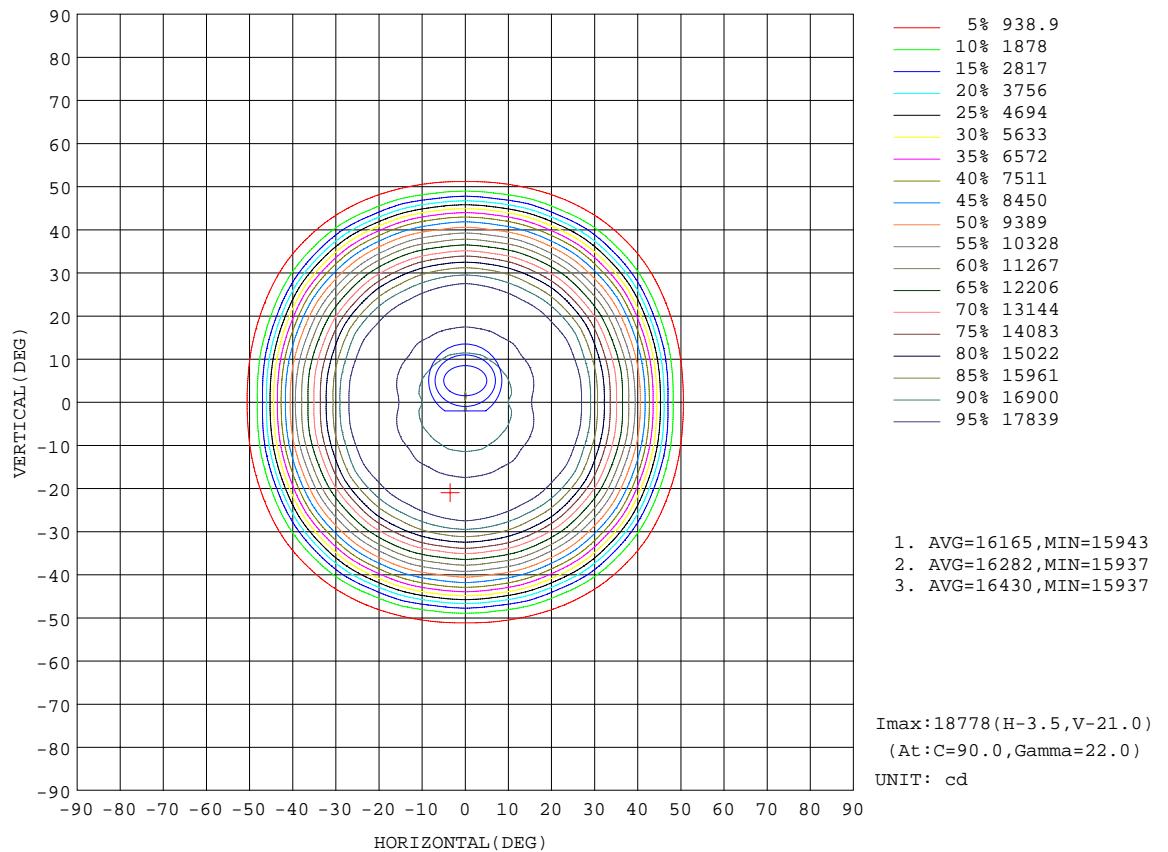
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	81	73	69	80	73	69	79	73	69	64
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	89	84	94	88	84	93	88	84	79
1.25	100	94	90	99	93	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	107	102	98	105	101	98	102	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	110	107	103	109	105	102	105	102	100	94
4.00	113	109	107	111	108	105	107	105	103	95
5.00	114	111	109	112	109	107	108	106	104	97
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:2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



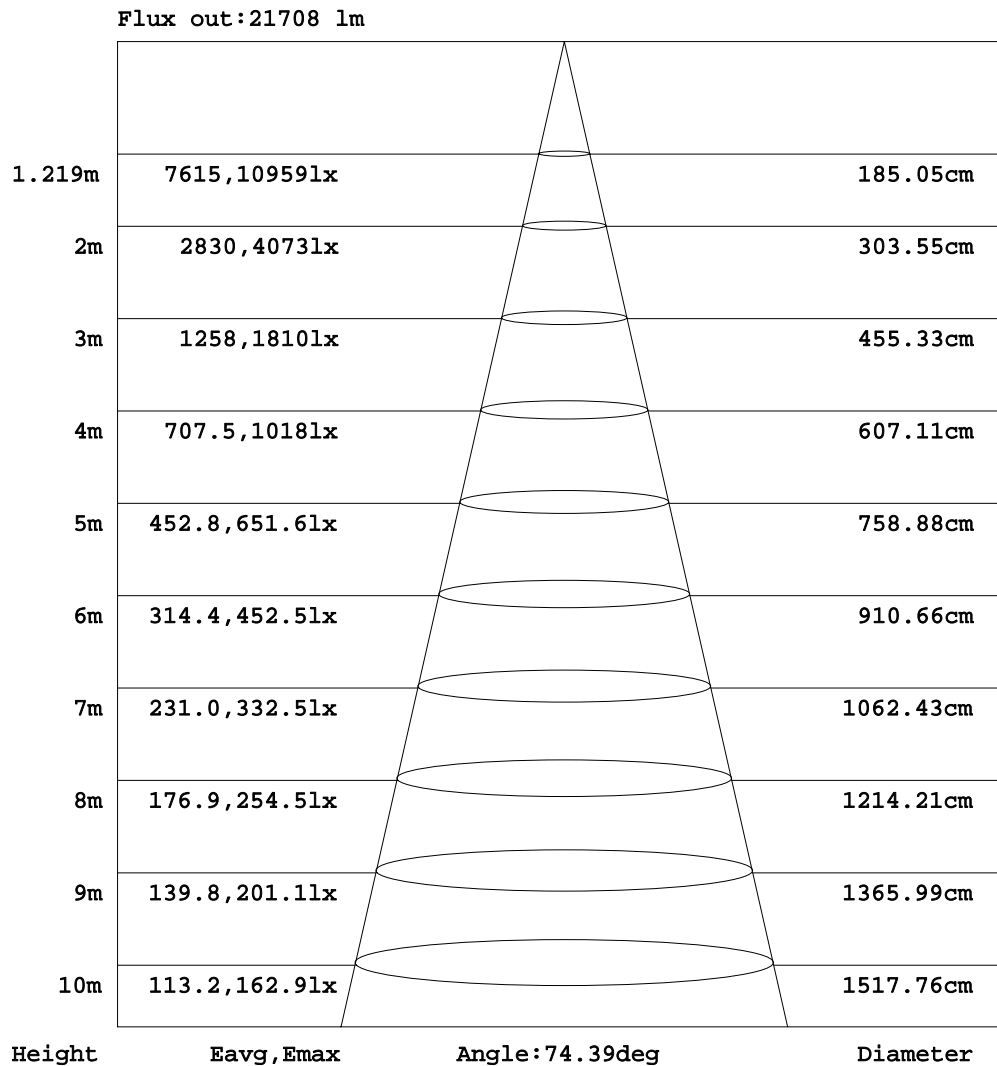
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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=1.0000]  
Remarks:



### AAI Figure

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



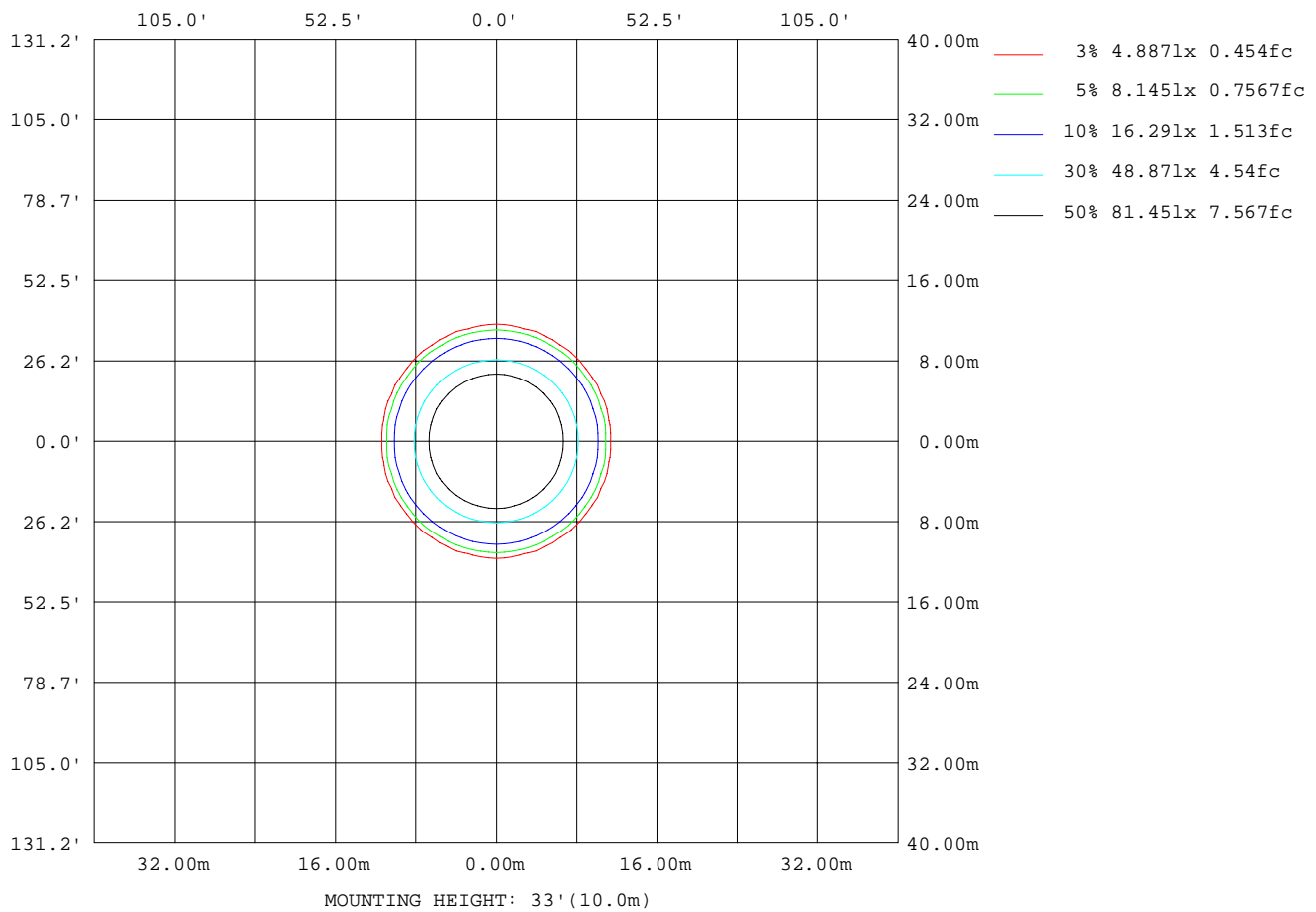
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

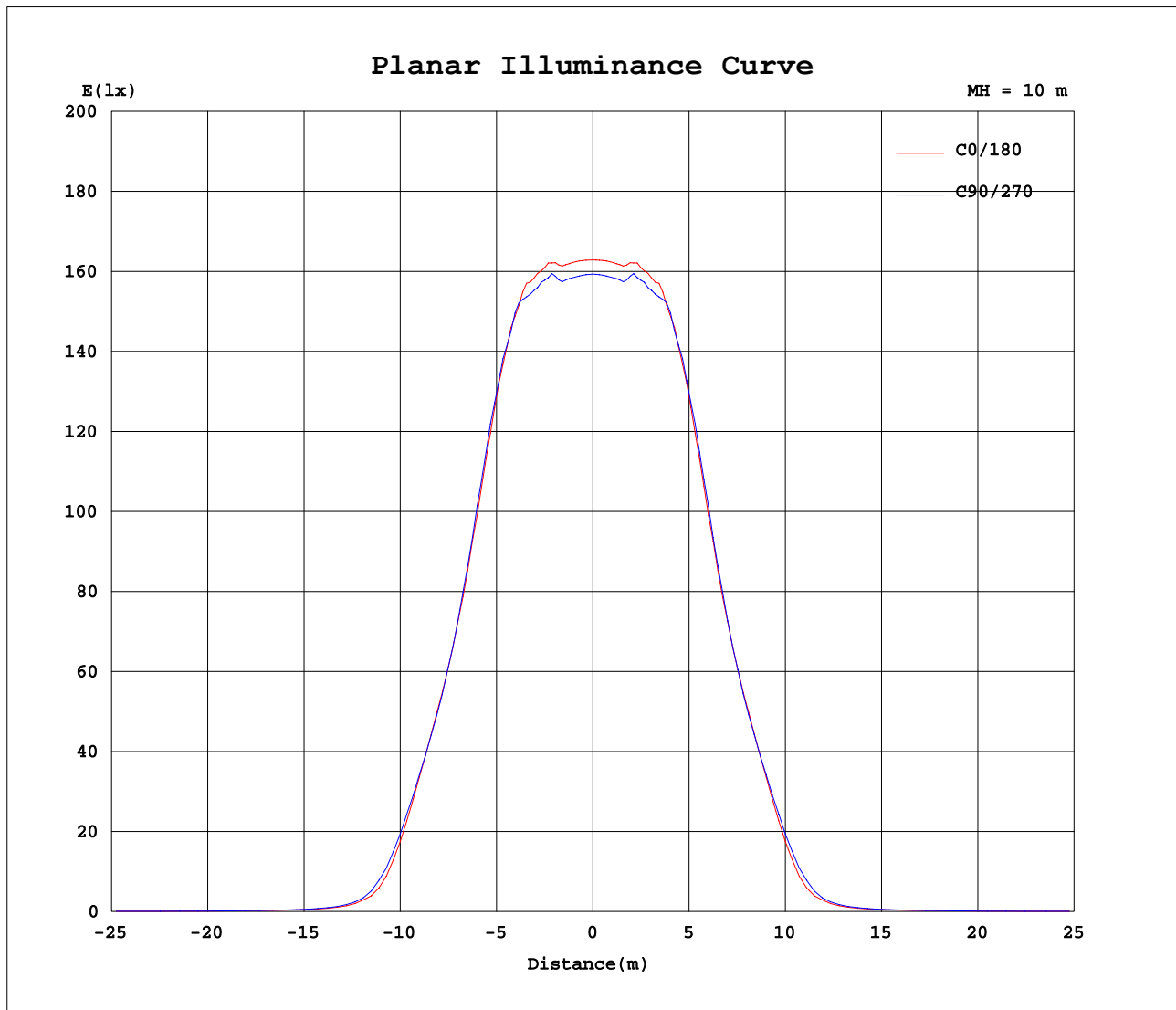
AvgL	cd/m2
L_0~180 (65) av	3661
L_0~180 (75) av	3899
L_0~180 (85) av	4455
L_90~270 (65) av	3784
L_90~270 (75) av	4042
L_90~270 (85) av	4679
L_45 (65) av	3859
L_45 (75) av	4093
L_45 (85) av	4727

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-29

$\gamma$  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=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608
5	1622	1621	1621	1620	1620	1620	1620	1619	1620	1620	1620	1619	1620	1620	1620	1620	1621	1621	1622
10	1670	1661	1660	1658	1660	1659	1662	1661	1664	1668	1664	1661	1662	1659	1660	1658	1660	1661	1670
15	1754	1760	1752	1757	1758	1749	1757	1758	1762	1761	1762	1758	1757	1749	1758	1757	1752	1760	1754
20	1842	1823	1821	1827	1840	1845	1849	1854	1864	1861	1864	1854	1849	1845	1840	1827	1821	1823	1842
25	1814	1818	1816	1818	1821	1817	1820	1846	1861	1873	1861	1846	1820	1817	1821	1818	1816	1818	1814
30	1615	1635	1647	1677	1674	1675	1667	1668	1672	1678	1672	1668	1667	1675	1674	1677	1647	1635	1615
35	1302	1328	1331	1345	1338	1345	1334	1335	1321	1336	1321	1335	1334	1345	1338	1345	1331	1328	1302
40	974	986	977	984	978	987	981	988	967	992	967	988	981	987	978	984	977	986	974
45	489	512	511	530	524	543	535	551	548	555	548	551	535	543	524	530	511	512	489
50	109	111	116	116	116	124	122	132	127	132	127	132	122	124	116	116	116	111	109
55	36.0	37.9	38.2	39.2	38.3	39.5	39.4	40.8	40.1	41.1	40.1	40.8	39.4	39.5	38.3	39.2	38.2	37.9	36.0
60	21.0	21.7	22.1	22.5	22.4	22.6	22.6	22.7	22.4	22.2	22.4	22.7	22.6	22.6	22.4	22.5	22.1	21.7	21.0
65	15.5	15.8	16.1	16.2	16.3	16.4	16.5	16.4	16.3	16.0	16.3	16.4	16.5	16.4	16.3	16.2	16.1	15.8	15.5
70	13.0	13.1	13.4	13.4	13.5	13.5	13.6	13.5	13.5	13.3	13.5	13.5	13.6	13.5	13.5	13.4	13.4	13.1	13.0
75	10.1	10.3	10.4	10.5	10.5	10.7	10.6	10.7	10.5	10.5	10.5	10.7	10.6	10.7	10.5	10.5	10.4	10.3	10.1
80	6.98	7.14	7.19	7.30	7.26	7.37	7.34	7.40	7.30	7.29	7.30	7.40	7.34	7.37	7.26	7.30	7.19	7.14	6.98
85	3.88	4.02	4.03	4.13	4.08	4.16	4.11	4.15	4.06	4.08	4.06	4.15	4.11	4.16	4.08	4.13	4.03	4.02	3.88
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: 2017-12-29

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=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.9702A P:198.2W PF:0.9722 Freq:49.99Hz Lamp Flux:27935.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--2

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608	1608		
5	1621	1621	1620	1620	1620	1620	1619	1620	1620	1620	1619	1620	1620	1620	1620	1621	1621		
10	1661	1660	1658	1660	1659	1662	1661	1664	1668	1664	1661	1662	1659	1660	1658	1660	1661		
15	1760	1752	1757	1758	1749	1757	1758	1762	1761	1762	1758	1757	1749	1758	1757	1752	1760		
20	1823	1821	1827	1840	1845	1849	1854	1864	1861	1864	1854	1849	1845	1840	1827	1821	1823		
25	1818	1816	1818	1821	1817	1820	1846	1861	1873	1861	1846	1820	1817	1821	1818	1816	1818		
30	1635	1647	1677	1674	1675	1667	1668	1672	1678	1672	1668	1667	1675	1674	1677	1647	1635		
35	1328	1331	1345	1338	1345	1334	1335	1321	1336	1321	1335	1334	1345	1338	1345	1331	1328		
40	986	977	984	978	987	981	988	967	992	967	988	981	987	978	984	977	986		
45	512	511	530	524	543	535	551	548	555	548	551	535	543	524	530	511	512		
50	111	116	116	116	124	122	132	127	132	127	132	122	124	116	116	116	111		
55	37.9	38.2	39.2	38.3	39.5	39.4	40.8	40.1	41.1	40.1	40.8	39.4	39.5	38.3	39.2	38.2	37.9		
60	21.7	22.1	22.5	22.4	22.6	22.6	22.7	22.4	22.2	22.4	22.7	22.6	22.6	22.4	22.5	22.1	21.7		
65	15.8	16.1	16.2	16.3	16.4	16.5	16.4	16.3	16.0	16.3	16.4	16.5	16.4	16.3	16.2	16.1	15.8		
70	13.1	13.4	13.4	13.5	13.5	13.6	13.5	13.5	13.3	13.5	13.5	13.6	13.5	13.5	13.4	13.4	13.1		
75	10.3	10.4	10.5	10.5	10.7	10.6	10.7	10.5	10.5	10.5	10.7	10.6	10.7	10.5	10.5	10.4	10.3		
80	7.14	7.19	7.30	7.26	7.37	7.34	7.40	7.30	7.29	7.30	7.40	7.34	7.37	7.26	7.30	7.19	7.14		
85	4.02	4.03	4.13	4.08	4.16	4.11	4.15	4.06	4.08	4.06	4.15	4.11	4.16	4.08	4.13	4.03	4.02		
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:2017-12-29

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=1.0000]  
 Remarks: