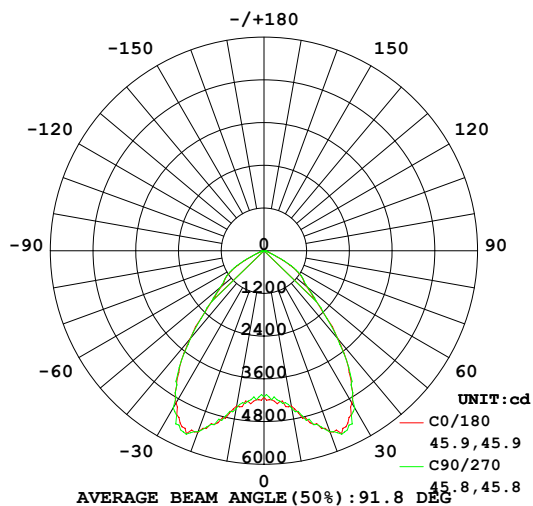


## LUMINAIRE PHOTOMETRIC TEST REPORT

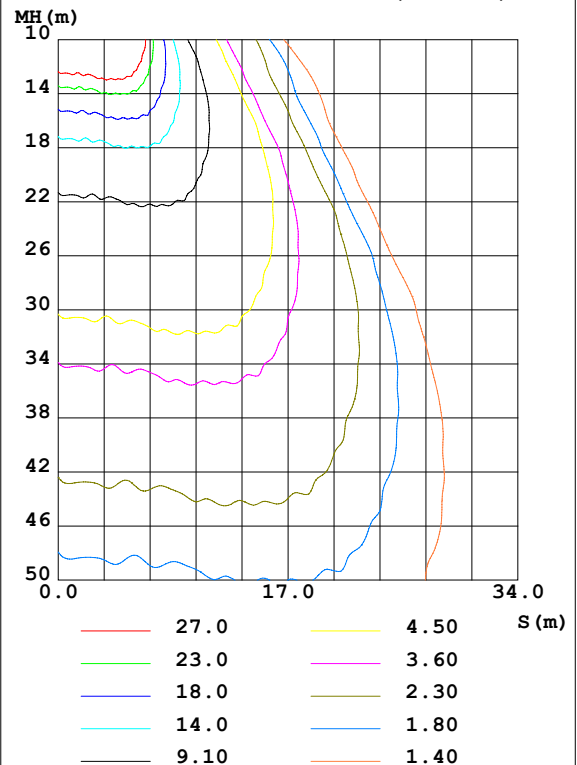
Test:U:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-120D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.90 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	5627	S/MH (C0/180)	1.32
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	10414	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	10413.8	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: 2018-01-03

$\gamma$  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	4428	4557	4494	4557	4428	4557	4494	4557	0- 10	412.8	412.8	3.96, 3.96
20	5422	5413	5411	5413	5422	5413	5411	5413	10- 20	1421	1834	17.6, 17.6
30	4938	4960	5100	4960	4938	4960	5100	4960	20- 30	2489	4323	41.5, 41.5
40	3236	3246	3213	3246	3236	3246	3213	3246	30- 40	2607	6930	66.5, 66.5
50	1570	1512	1625	1512	1570	1512	1625	1512	40- 50	1734	8664	83.2, 83.2
60	943.8	918.1	966.6	918.1	943.8	918.1	966.6	918.1	50- 60	1124	9788	94, 94
70	164.2	166.9	167.3	166.9	164.2	166.9	167.3	166.9	60- 70	472.9	10260	98.5, 98.5
80	62.09	60.11	61.08	60.11	62.09	60.11	61.08	60.11	70- 80	106.6	10367	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	46.67	10414	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	10414	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	10414	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	10414	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	10414	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	10414	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	10414	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	10414	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	10414	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	10414	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7926.7 lm

%lum = 76.1%

%lamp = 76.1%

Conical surface Flux(120deg): 9787.5 lm

%lum = 94.0%

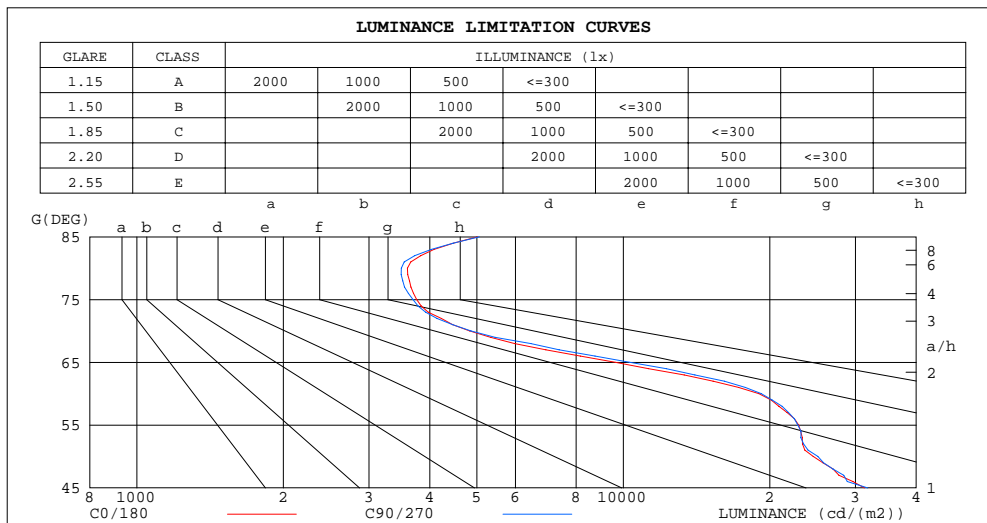
%lamp = 94.0%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-120D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5014	5058
80	3598	3495
75	3760	3695
70	4831	4862
65	9630	10311
60	18994	19211
55	22936	22840
50	24570	25119
45	31311	31803

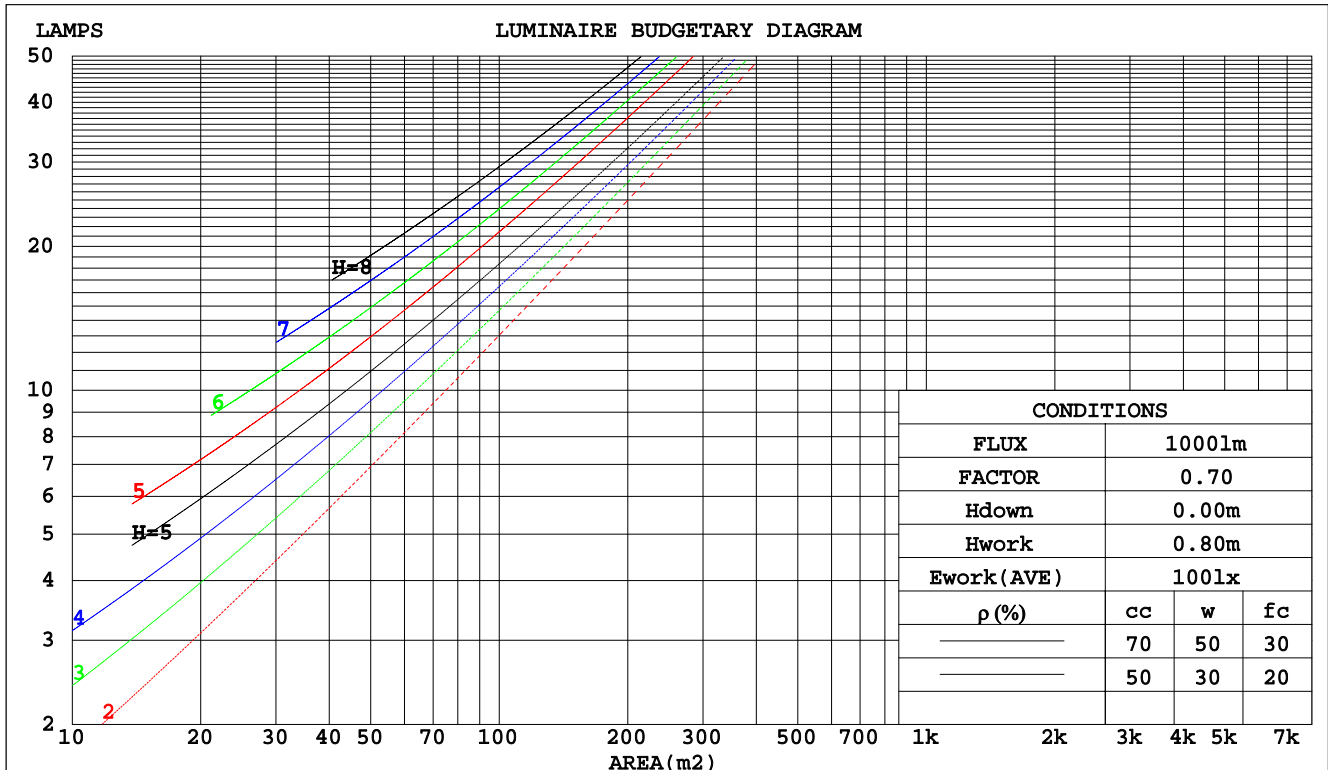
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	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	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.91	.86	.92	.88	.84	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.72	.70
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.74	.69	.65	.72	.67	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.58	.66	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.62	.56	.52	.60	.55	.51	.49
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.44
8.0	.56	.48	.43	.55	.48	.43	.54	.47	.42	.52	.47	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.37
10.0	.48	.40	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.34



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	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	.233	.133	.042	.226	.129	.041	.213	.122	.039	.202	.116	.037	.191	.111	.036		
2.0	.227	.124	.038	.221	.122	.037	.210	.117	.036	.199	.112	.035	.190	.107	.034		
3.0	.216	.115	.034	.211	.113	.034	.201	.109	.033	.192	.105	.032	.184	.102	.032		
4.0	.205	.107	.031	.200	.105	.031	.192	.102	.030	.184	.099	.030	.177	.096	.029		
5.0	.194	.099	.029	.190	.097	.028	.182	.095	.028	.175	.092	.028	.169	.090	.027		
6.0	.183	.092	.026	.180	.091	.026	.173	.089	.026	.167	.087	.025	.161	.085	.025		
7.0	.173	.086	.024	.170	.085	.024	.164	.083	.024	.159	.081	.024	.153	.080	.023		
8.0	.164	.080	.023	.161	.079	.022	.156	.078	.022	.151	.076	.022	.146	.075	.022		
9.0	.156	.075	.021	.153	.075	.021	.148	.073	.021	.144	.072	.021	.140	.071	.020		
10.0	.148	.071	.020	.146	.070	.020	.141	.069	.020	.137	.068	.019	.133	.067	.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	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.053	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.103	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-100WoH-3030-120D-PC-ALL					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	14.7	16.0	15.0	16.2	16.4	14.6	15.9	14.9	16.1	16.3
3H	14.7	15.9	15.0	16.1	16.4	14.7	15.8	14.9	16.0	16.3
4H	14.7	15.8	15.0	16.0	16.3	14.6	15.7	14.9	15.9	16.2
6H	14.6	15.7	15.0	15.9	16.2	14.5	15.6	14.9	15.8	16.1
8H	14.6	15.6	14.9	15.9	16.1	14.5	15.5	14.8	15.8	16.1
12H	14.6	15.5	14.9	15.8	16.1	14.5	15.4	14.8	15.7	16.0
4H 2H	14.8	15.9	15.1	16.2	16.4	14.7	15.8	15.0	16.0	16.3
3H	14.8	15.8	15.2	16.1	16.4	14.8	15.7	15.1	16.0	16.3
4H	14.8	15.7	15.2	16.0	16.3	14.7	15.6	15.1	15.9	16.2
6H	14.8	15.5	15.2	15.9	16.2	14.7	15.5	15.1	15.8	16.2
8H	14.8	15.5	15.2	15.8	16.2	14.7	15.4	15.1	15.8	16.1
12H	14.8	15.4	15.2	15.8	16.2	14.7	15.3	15.1	15.7	16.1
8H 4H	14.7	15.4	15.1	15.8	16.2	14.6	15.3	15.0	15.7	16.1
6H	14.7	15.3	15.2	15.7	16.1	14.6	15.2	15.1	15.6	16.0
8H	14.7	15.2	15.2	15.7	16.1	14.7	15.2	15.1	15.6	16.0
12H	14.8	15.2	15.2	15.6	16.1	14.7	15.1	15.2	15.6	16.0
12H 4H	14.7	15.3	15.1	15.7	16.1	14.6	15.2	15.0	15.6	16.0
6H	14.7	15.2	15.1	15.6	16.1	14.6	15.1	15.1	15.5	16.0
8H	14.7	15.1	15.2	15.6	16.1	14.6	15.1	15.1	15.5	16.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.3					+ 1.0 / - 1.4				
1.5H	+ 1.2 / - 1.2					+ 1.2 / - 1.1				
2.0H	+ 1.3 / - 2.1					+ 1.4 / - 2.2				

CIE Pub.117, 10414 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.1$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

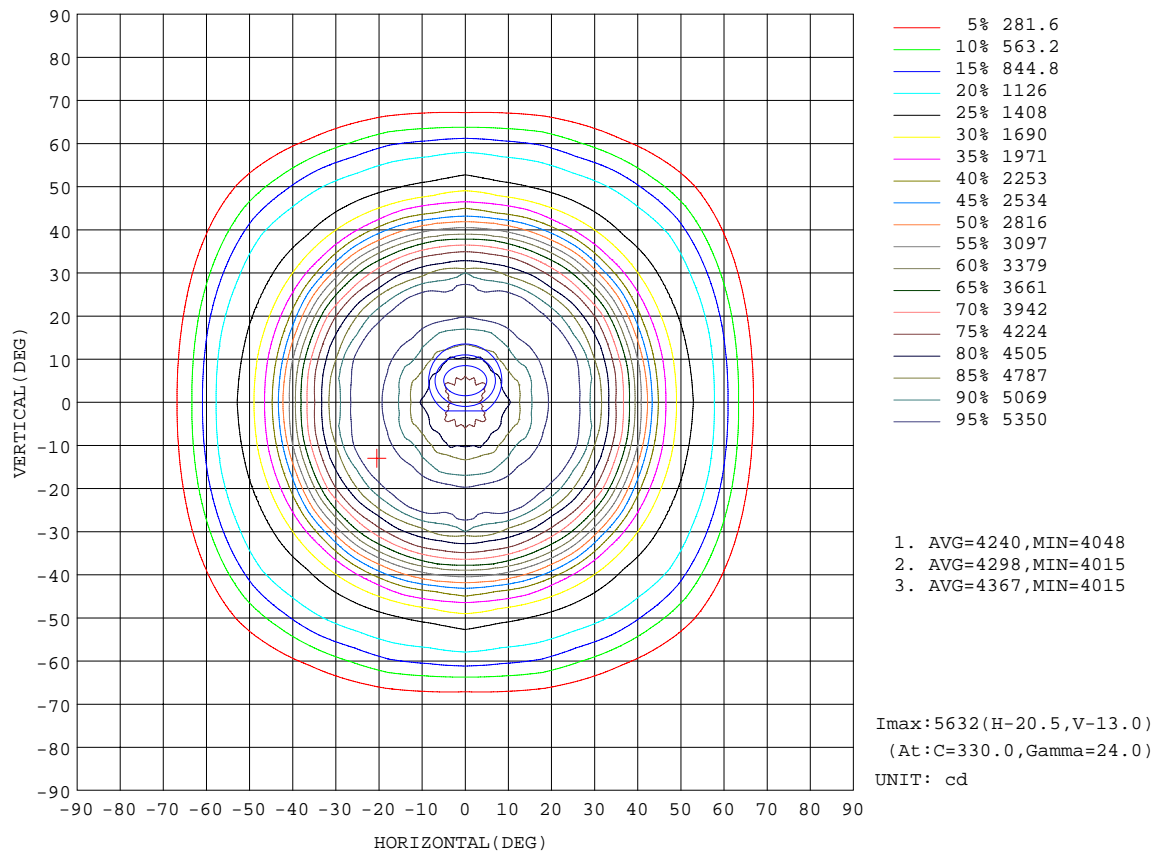
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	61	55	70	61	55	69	60	55	50
0.80	80	71	65	79	71	65	78	70	65	59
1.00	87	79	74	86	79	73	84	79	73	67
1.25	94	86	81	92	85	80	90	84	79	74
1.50	98	90	85	96	90	85	94	88	84	78
2.00	103	96	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	93	86
3.00	108	103	99	106	101	98	102	98	96	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	106	103	101	93
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:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



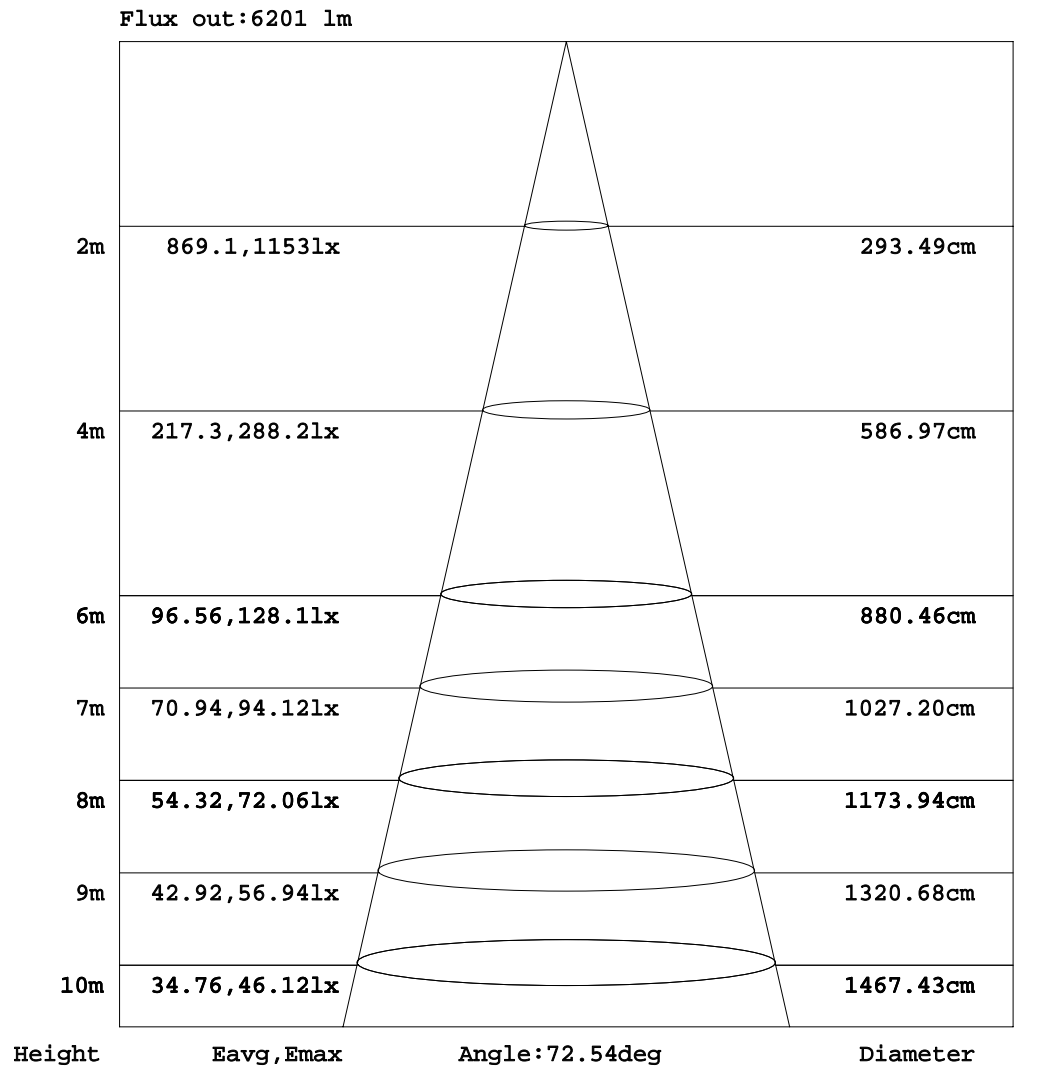
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



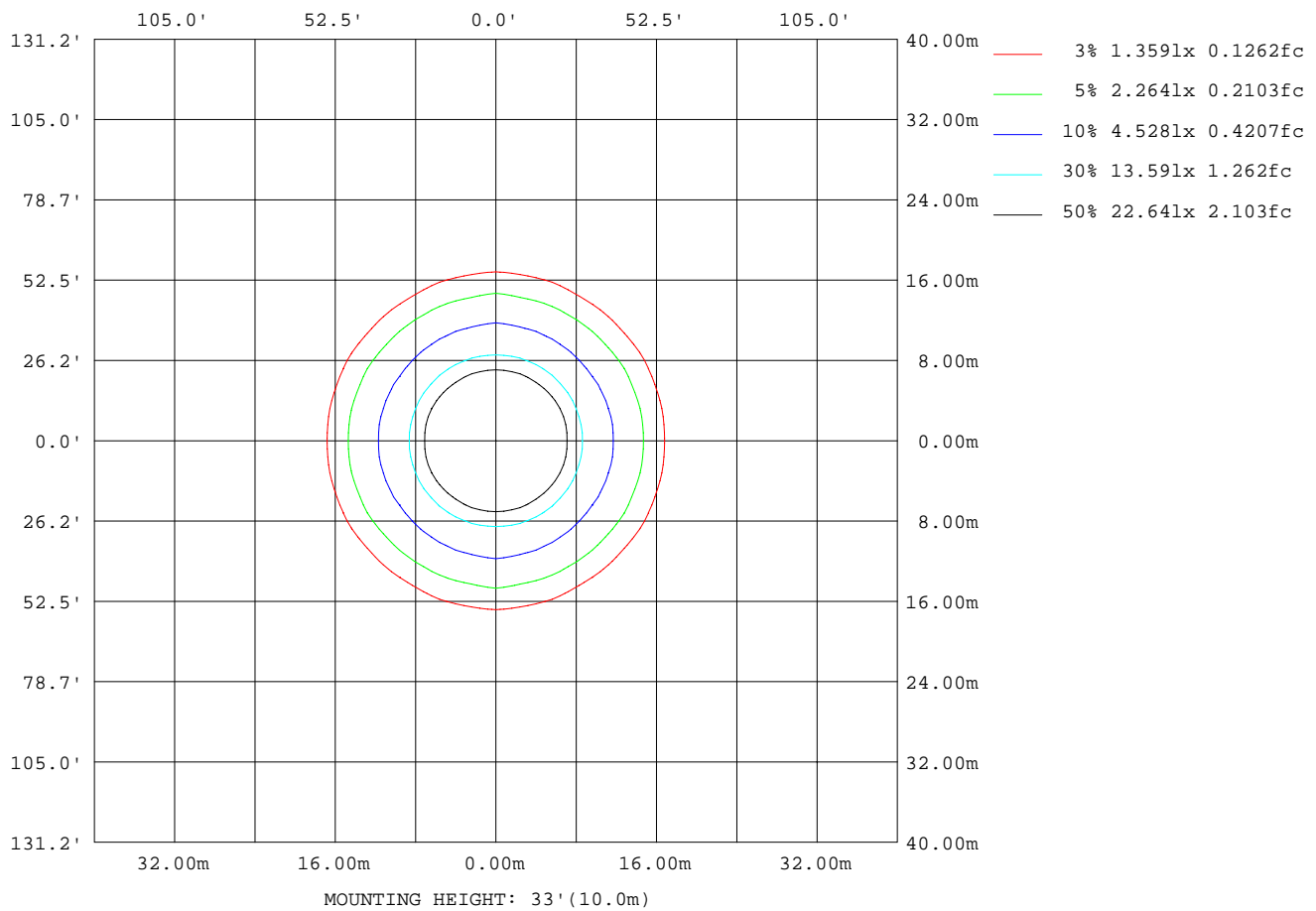
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	DIM.: $\Phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi$ 0.16M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

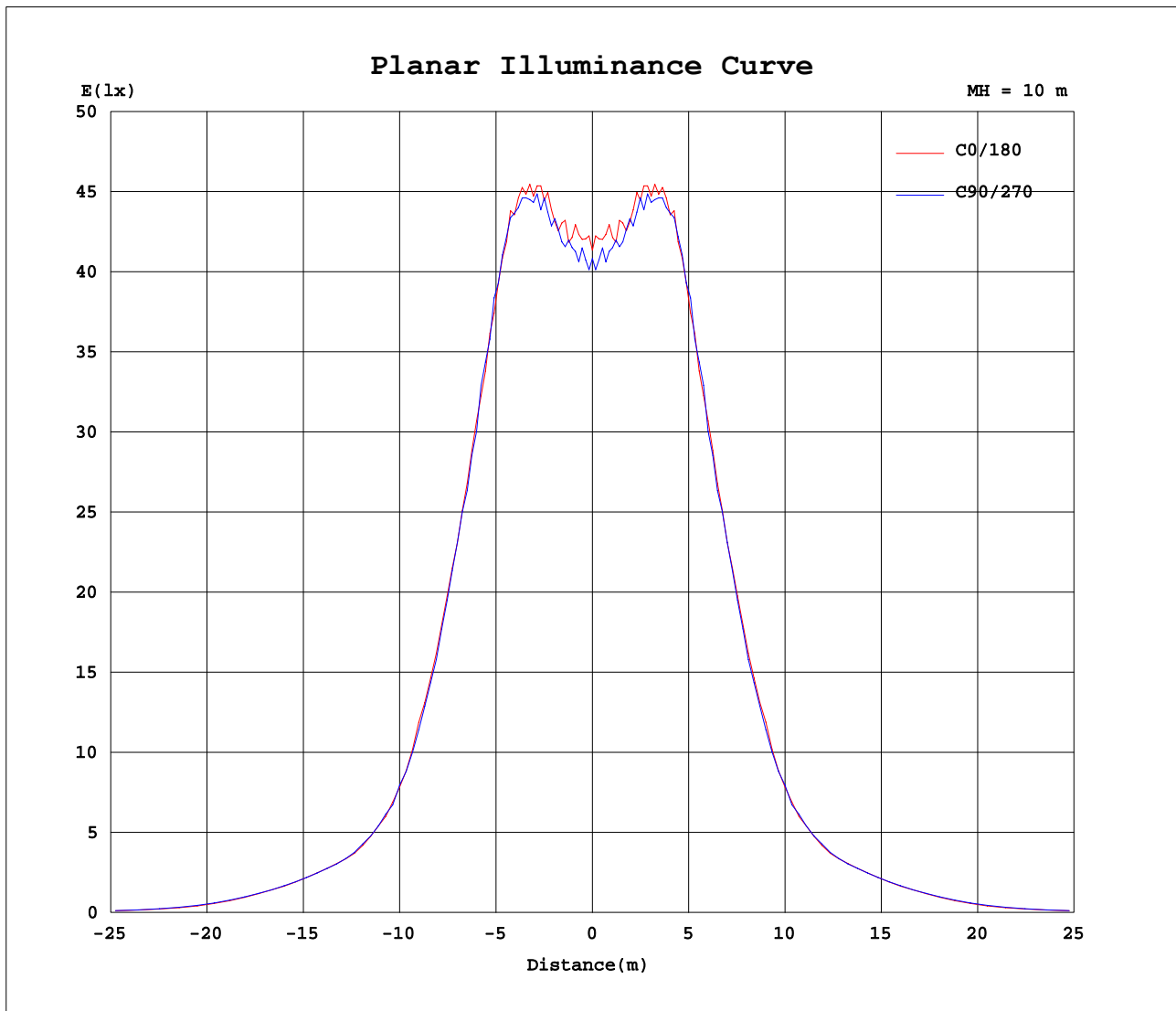
AvgL	cd/m2
L_0~180 (65) av	9570
L_0~180 (75) av	3737
L_0~180 (85) av	4983
L_90~270 (65) av	10377
L_90~270 (75) av	3718
L_90~270 (85) av	5090
L_45 (65) av	9797
L_45 (75) av	3585
L_45 (85) av	4847

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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: 2018-01-03

$\gamma$  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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D-PC-ALL	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	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109
5	4317	4225	4313	4170	4232	4194	4265	4154	4222	4201	4222	4154	4265	4194	4232	4170	4313	4225	4317
10	4428	4515	4607	4512	4520	4595	4486	4479	4517	4494	4517	4479	4486	4595	4520	4512	4607	4515	4428
15	5003	5012	4974	5021	4976	5023	4981	4970	4972	4899	4972	4970	4981	5023	4976	5021	4974	5012	5003
20	5422	5355	5375	5389	5389	5436	5395	5389	5418	5411	5418	5389	5395	5436	5389	5389	5375	5355	5422
25	5455	5512	5424	5600	5543	5536	5443	5491	5531	5551	5531	5491	5443	5536	5543	5600	5424	5512	5455
30	4938	5032	5041	4978	4978	4942	4931	4939	4972	5100	4972	4939	4931	4942	4978	4978	5041	5032	4938
35	4176	4253	4276	4272	4259	4187	4191	4231	4197	4230	4197	4231	4191	4187	4259	4272	4276	4253	4176
40	3236	3249	3297	3285	3232	3259	3211	3207	3273	3213	3273	3207	3211	3259	3232	3285	3297	3249	3236
45	2200	2188	2147	2170	2130	2180	2181	2217	2159	2263	2159	2217	2181	2180	2130	2170	2147	2188	2200
50	1570	1588	1580	1571	1518	1506	1525	1567	1550	1625	1550	1567	1525	1506	1518	1571	1580	1588	1570
55	1307	1295	1300	1297	1266	1257	1265	1262	1250	1318	1250	1262	1265	1257	1266	1297	1300	1295	1307
60	944	951	947	952	919	918	898	953	929	967	929	953	898	918	919	952	947	951	944
65	404	420	431	443	417	416	432	480	457	439	457	480	432	416	417	443	431	420	404
70	164	158	167	164	165	168	174	173	169	167	169	173	174	168	165	164	167	158	164
75	96.7	95.7	95.4	95.5	93.0	93.0	94.5	97.5	95.7	96.2	95.7	97.5	94.5	93.0	93.0	95.5	95.4	95.7	96.7
80	62.1	62.0	61.5	62.2	60.2	60.0	60.4	61.7	60.4	61.1	60.4	61.7	60.4	60.0	60.2	62.2	61.5	62.0	62.1
85	43.4	43.4	42.6	42.6	42.1	42.5	42.9	44.0	44.1	44.4	44.1	44.0	42.9	42.5	42.1	42.6	42.6	43.4	43.4
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:2018-01-03

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:220.1V I:0.4890A P:101.2W PF:0.9853 Freq:49.99Hz Lamp Flux:10413.8x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:2.9KG		
SPEC.:AOK-100WoH-3030-120D-PC-ALL									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	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109	4109		
5	4225	4313	4170	4232	4194	4265	4154	4222	4201	4222	4154	4265	4194	4232	4170	4313	4225		
10	4515	4607	4512	4520	4595	4486	4479	4517	4494	4517	4479	4486	4595	4520	4512	4607	4515		
15	5012	4974	5021	4976	5023	4981	4970	4972	4899	4972	4970	4981	5023	4976	5021	4974	5012		
20	5355	5375	5389	5389	5436	5395	5389	5418	5411	5418	5389	5395	5436	5389	5389	5375	5355		
25	5512	5424	5600	5543	5536	5443	5491	5531	5551	5531	5491	5443	5536	5543	5600	5424	5512		
30	5032	5041	4978	4978	4942	4931	4939	4972	5100	4972	4939	4931	4942	4978	4978	5041	5032		
35	4253	4276	4272	4259	4187	4191	4231	4197	4230	4197	4231	4191	4187	4259	4272	4276	4253		
40	3249	3297	3285	3232	3259	3211	3207	3273	3213	3273	3207	3211	3259	3232	3285	3297	3249		
45	2188	2147	2170	2130	2180	2181	2217	2159	2263	2159	2217	2181	2180	2130	2170	2147	2188		
50	1588	1580	1571	1518	1506	1525	1567	1550	1625	1550	1567	1525	1506	1518	1571	1580	1588		
55	1295	1300	1297	1266	1257	1265	1262	1250	1318	1250	1262	1265	1257	1266	1297	1300	1295		
60	951	947	952	919	918	898	953	929	967	929	953	898	918	919	952	947	951		
65	420	431	443	417	416	432	480	457	439	457	480	432	416	417	443	431	420		
70	158	167	164	165	168	174	173	169	167	169	173	174	168	165	164	167	158		
75	95.7	95.4	95.5	93.0	93.0	94.5	97.5	95.7	96.2	95.7	97.5	94.5	93.0	93.0	95.5	95.4	95.7		
80	62.0	61.5	62.2	60.2	60.0	60.4	61.7	60.4	61.1	60.4	61.7	60.4	60.0	60.2	62.2	61.5	62.0		
85	43.4	42.6	42.6	42.1	42.5	42.9	44.0	44.1	44.4	44.1	44.0	42.9	42.5	42.1	42.6	42.6	43.4		
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		
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:2018-01-03

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: