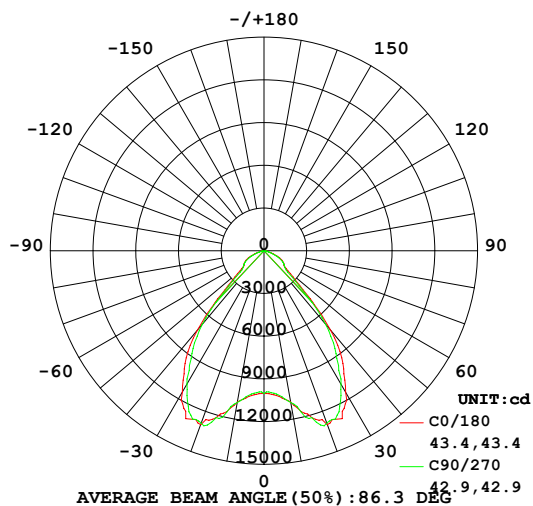


## LUMINAIRE PHOTOMETRIC TEST REPORT

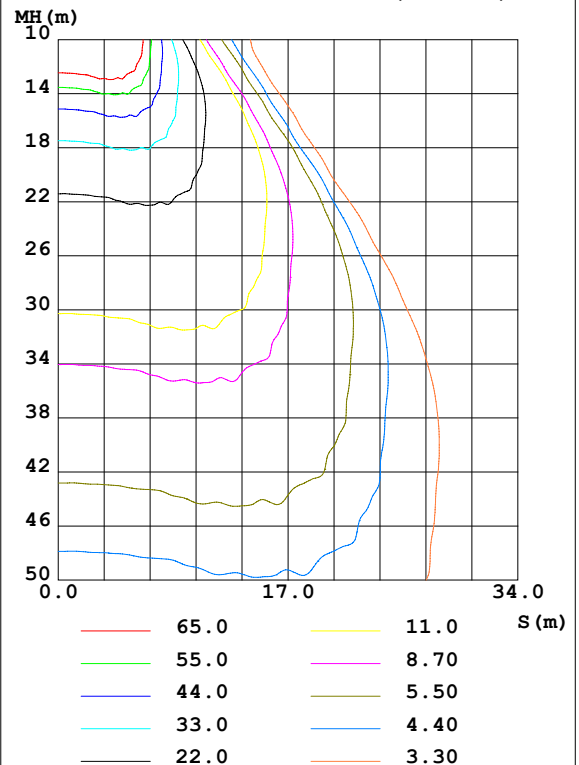
Test:U:219.9V I:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.26 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	13110	S/MH (C0/180)	1.27
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	22254	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	22253.8	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: 2018-01-09

$\gamma$  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	1079	1076	1082	1076	1079	1076	1082	1076	0- 10	989.7	989.7	4.45,4.45
20	1300	1278	1288	1278	1300	1278	1288	1278	10- 20	3405	4395	19.7,19.7
30	1148	1130	1081	1130	1148	1130	1081	1130	20- 30	5745	10140	45.6,45.6
40	730.5	712.3	676.4	712.3	730.5	712.3	676.4	712.3	30- 40	5786	15926	71.6,71.6
50	219.2	204.5	197.0	204.5	219.2	204.5	197.0	204.5	40- 50	3146	19072	85.7,85.7
60	154.3	149.7	147.9	149.7	154.3	149.7	147.9	149.7	50- 60	1563	20635	92.7,92.7
70	79.15	69.26	63.75	69.26	79.15	69.26	63.75	69.26	60- 70	1135	21770	97.8,97.8
80	19.61	16.18	14.63	16.18	19.61	16.18	14.63	16.18	70- 80	394.1	22164	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	89.95	22254	100,100
100	0	0	0	0	0	0	0	0	90-100	0	22254	100,100
110	0	0	0	0	0	0	0	0	100-110	0	22254	100,100
120	0	0	0	0	0	0	0	0	110-120	0	22254	100,100
130	0	0	0	0	0	0	0	0	120-130	0	22254	100,100
140	0	0	0	0	0	0	0	0	130-140	0	22254	100,100
150	0	0	0	0	0	0	0	0	140-150	0	22254	100,100
160	0	0	0	0	0	0	0	0	150-160	0	22254	100,100
170	0	0	0	0	0	0	0	0	160-170	0	22254	100,100
180	0	0	0	0	0	0	0	0	170-180	0	22254	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 17960 lm

%lum = 80.7%

%lamp = 80.7%

Conical surface Flux(120deg): 20635 lm

%lum = 92.7%

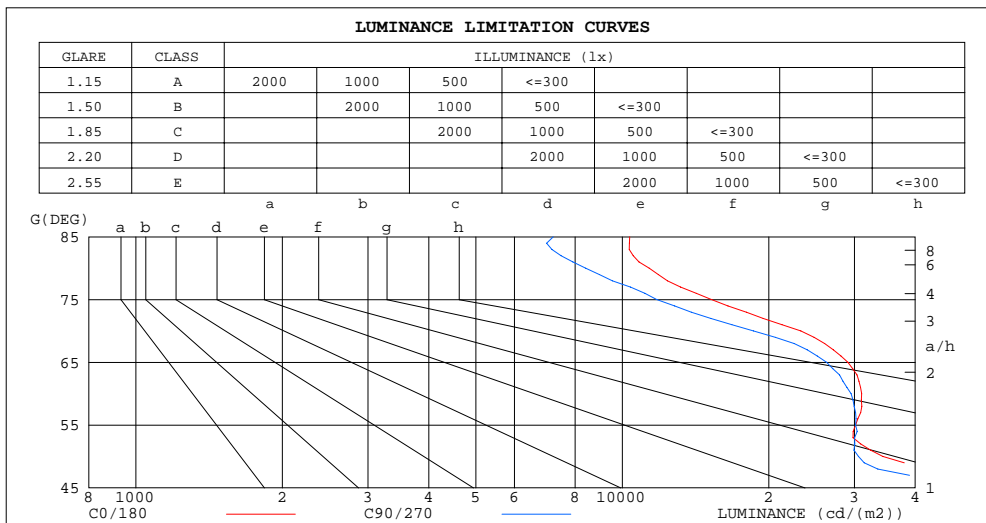
%lamp = 92.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-120D-PC	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10353	7211
80	11358	8407
75	15254	11768
70	23280	18604
65	29093	26300
60	31036	29529
55	30163	30154
50	34310	30589
45	54969	49359

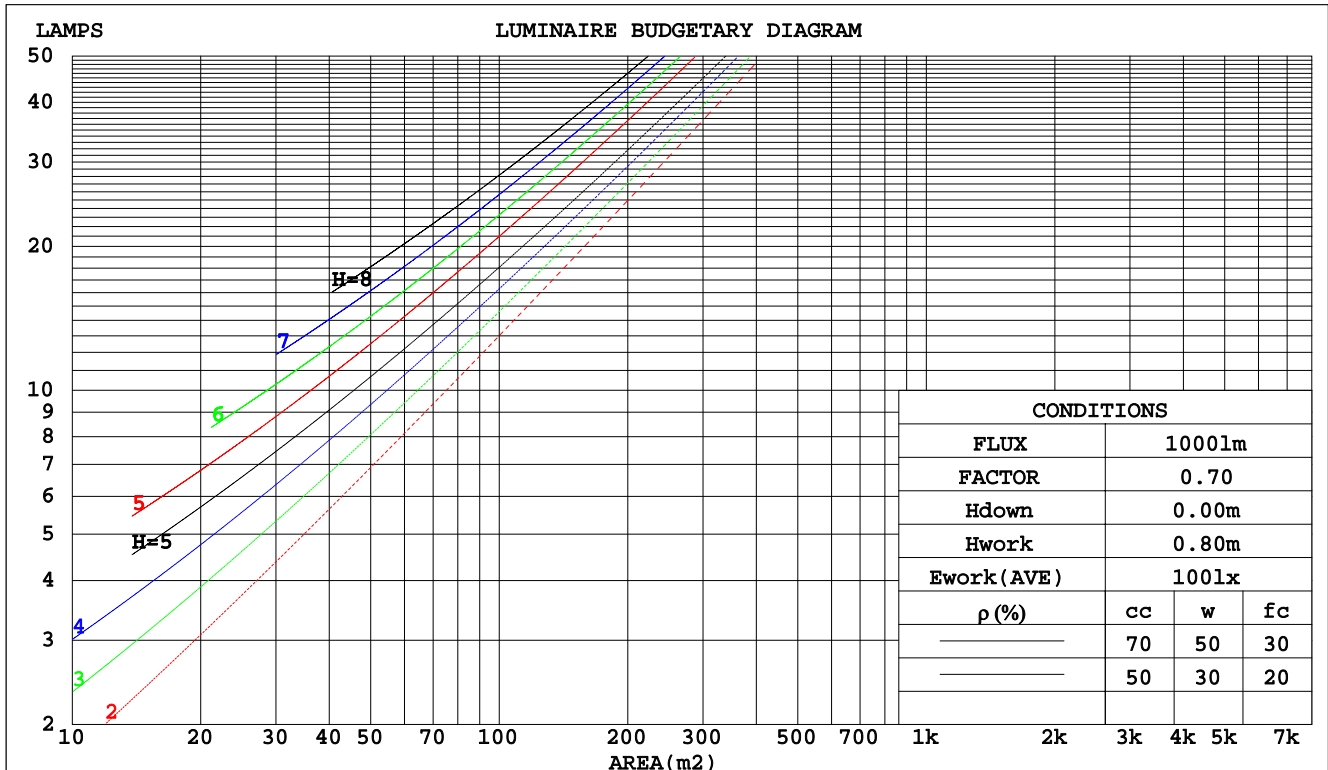
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-120D-PC	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.90
2.0	.98	.92	.88	.96	.91	.87	.92	.89	.85	.89	.86	.83	.87	.84	.81	.80
3.0	.89	.82	.77	.87	.81	.76	.84	.79	.75	.82	.77	.74	.79	.76	.73	.71
4.0	.81	.73	.68	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.69	.65	.63
5.0	.74	.66	.61	.73	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.59	.57
6.0	.68	.60	.55	.67	.60	.54	.65	.59	.54	.63	.58	.54	.62	.57	.53	.51
7.0	.62	.55	.49	.61	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47
8.0	.57	.50	.45	.57	.50	.45	.56	.49	.45	.54	.49	.44	.53	.48	.44	.43
9.0	.53	.46	.41	.53	.46	.41	.52	.45	.41	.51	.45	.41	.50	.44	.41	.39
10.0	.49	.42	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.46	.41	.37	.36



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-120D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	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	.230	.131	.041	.223	.127	.040	.211	.121	.039	.199	.115	.037	.188	.109	.035		
2.0	.222	.122	.037	.217	.119	.037	.205	.114	.035	.195	.110	.034	.186	.105	.033		
3.0	.211	.112	.034	.206	.110	.033	.196	.106	.032	.187	.103	.032	.179	.099	.031		
4.0	.200	.104	.030	.195	.102	.030	.187	.099	.030	.179	.096	.029	.171	.093	.028		
5.0	.188	.096	.028	.184	.095	.028	.177	.092	.027	.170	.090	.027	.164	.087	.026		
6.0	.178	.089	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024		
7.0	.169	.083	.024	.165	.082	.023	.159	.081	.023	.154	.079	.023	.149	.077	.023		
8.0	.160	.078	.022	.157	.077	.022	.152	.076	.022	.147	.074	.021	.142	.073	.021		
9.0	.152	.073	.020	.149	.073	.020	.144	.071	.020	.140	.070	.020	.136	.069	.020		
10.0	.144	.069	.019	.142	.069	.019	.138	.067	.019	.134	.066	.019	.130	.065	.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	.141	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.107	.063	.033	.074	.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	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.108	.058	.025	.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:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH-5050-120D-PC					DIM.: $\phi$ 0.319*0.138M			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi$ 0.24M			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	13.5	14.7	13.8	14.9	15.1	13.2	14.5	13.5	14.7	14.9
3H	14.1	15.3	14.4	15.5	15.7	13.8	14.9	14.1	15.1	15.4
4H	14.3	15.3	14.5	15.6	15.8	13.8	14.9	14.1	15.1	15.4
6H	14.3	15.3	14.6	15.5	15.8	13.8	14.8	14.1	15.1	15.3
8H	14.3	15.2	14.6	15.5	15.8	13.8	14.8	14.1	15.0	15.3
12H	14.2	15.2	14.6	15.5	15.7	13.8	14.7	14.1	15.0	15.3
4H 2H	13.7	14.8	14.0	15.0	15.2	13.5	14.5	13.7	14.8	15.0
3H	14.4	15.4	14.8	15.6	15.9	14.1	15.0	14.4	15.3	15.6
4H	14.6	15.4	15.0	15.7	16.1	14.2	15.0	14.6	15.4	15.7
6H	14.7	15.4	15.1	15.7	16.1	14.2	15.0	14.6	15.3	15.7
8H	14.7	15.4	15.1	15.7	16.1	14.2	14.9	14.6	15.3	15.6
12H	14.7	15.3	15.1	15.7	16.1	14.2	14.8	14.6	15.2	15.6
8H 4H	14.6	15.3	15.0	15.6	16.0	14.2	14.9	14.6	15.2	15.6
6H	14.7	15.2	15.1	15.6	16.1	14.3	14.8	14.7	15.2	15.6
8H	14.7	15.2	15.2	15.6	16.1	14.3	14.8	14.7	15.2	15.6
12H	14.8	15.2	15.2	15.6	16.1	14.3	14.7	14.7	15.1	15.6
12H 4H	14.5	15.2	15.0	15.5	15.9	14.2	14.8	14.6	15.2	15.6
6H	14.7	15.2	15.1	15.6	16.0	14.2	14.7	14.7	15.1	15.6
8H	14.7	15.1	15.2	15.6	16.0	14.2	14.7	14.7	15.1	15.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 1.1 / - 1.6				
1.5H	+ 2.2 / - 1.6					+ 2.3 / - 1.7				
2.0H	+ 1.7 / - 1.0					+ 1.3 / - 1.0				

CIE Pub.117, 22254 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 10.8$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

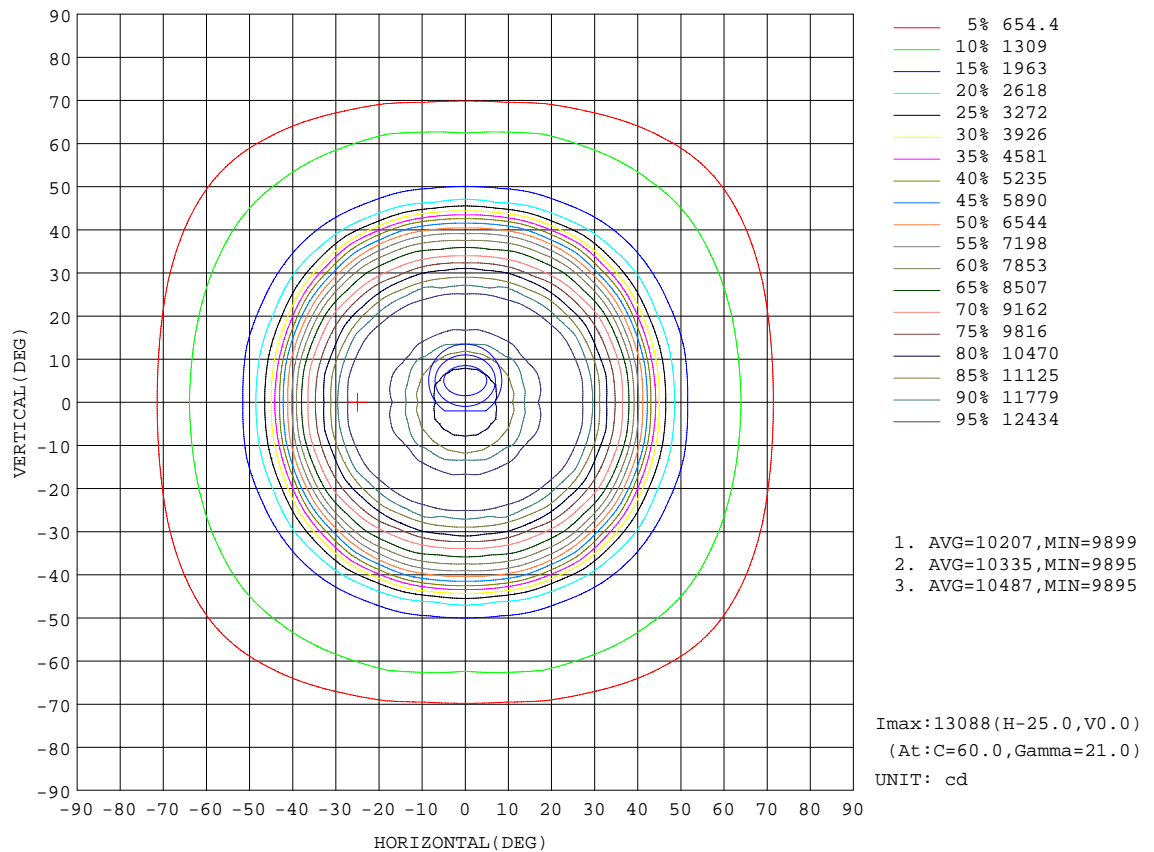
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	65	60	73	65	60	72	64	60	55
0.80	83	74	69	82	74	69	81	73	69	63
1.00	89	81	76	88	81	76	87	81	75	70
1.25	95	88	83	94	87	82	91	86	81	76
1.50	99	92	87	97	91	87	95	89	85	80
2.00	103	97	93	102	96	92	99	94	91	84
2.50	106	100	96	104	99	95	101	97	94	87
3.00	108	103	100	106	102	99	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
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:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-120D-PC	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

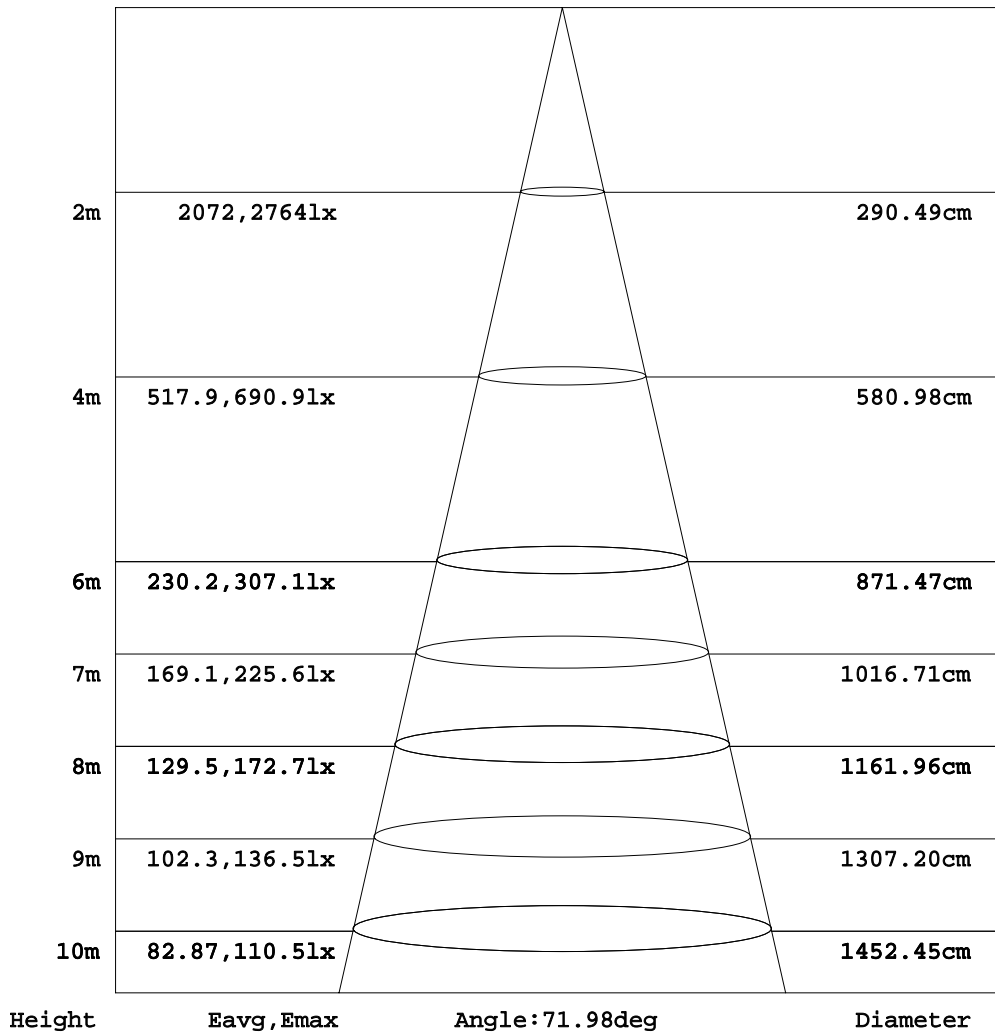
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:219.9V I:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Flux out:13742 lm



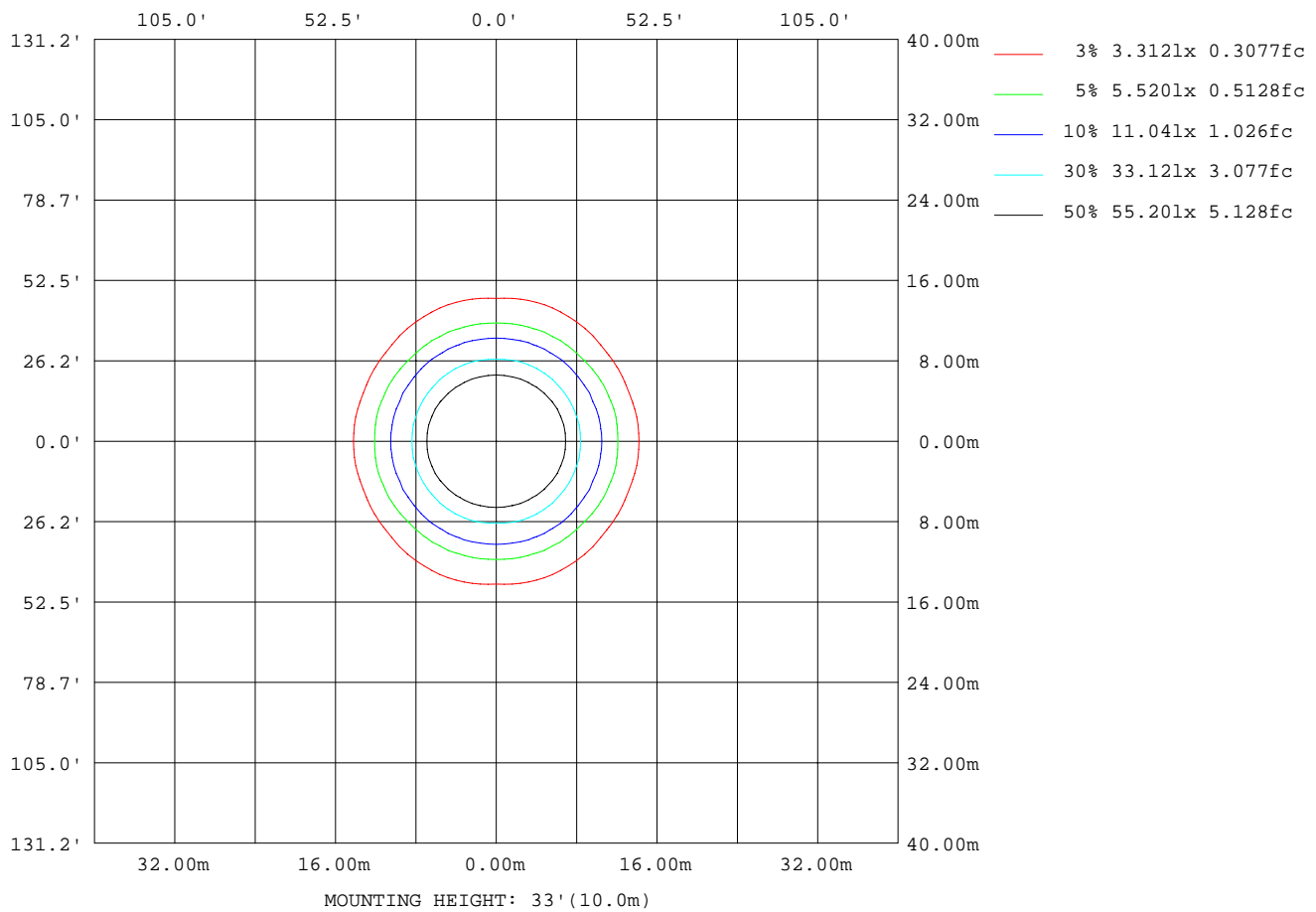
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-120D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-120D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

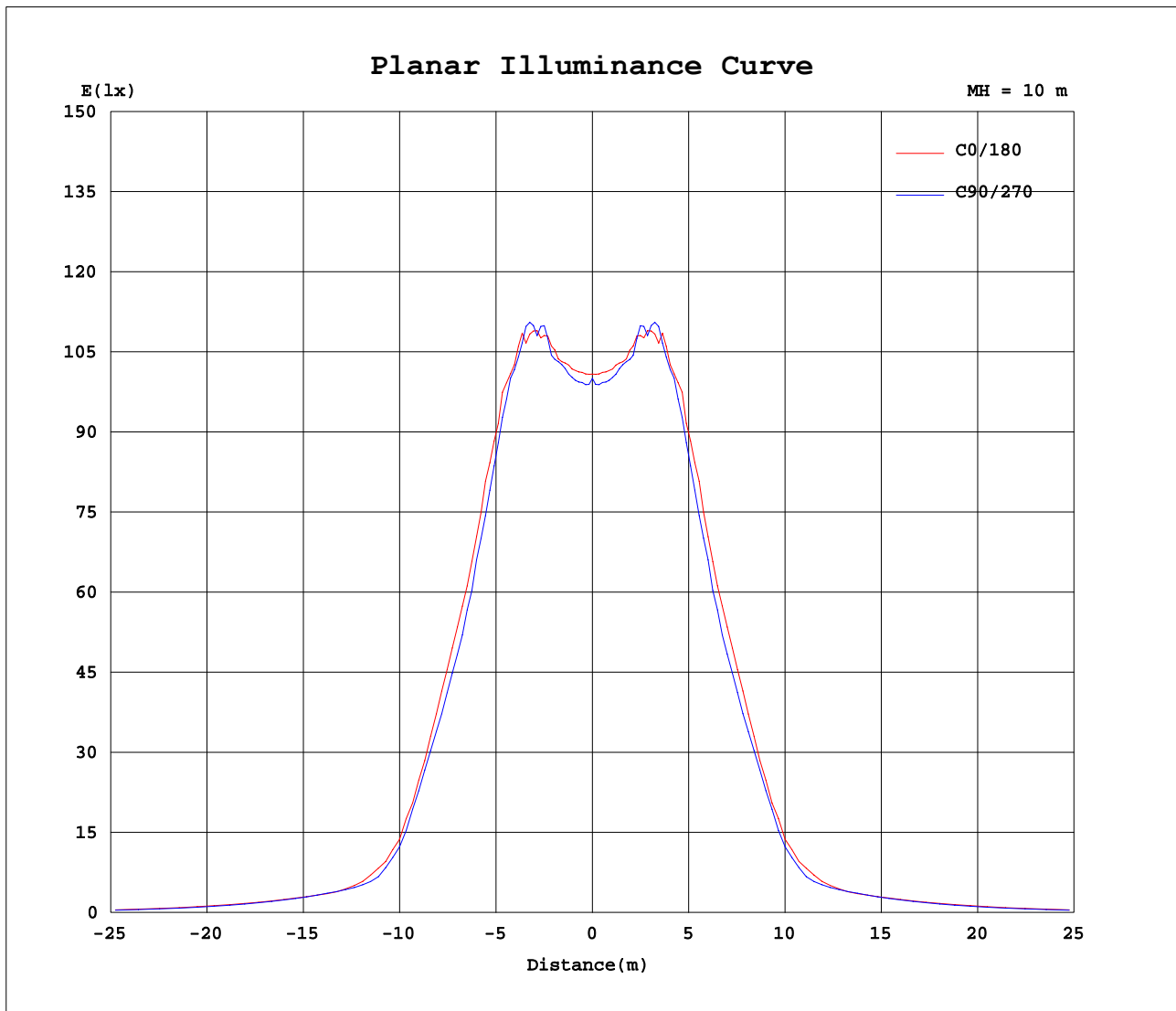
AvgL	cd/m2
L_0~180 (65) av	28922
L_0~180 (75) av	15164
L_0~180 (85) av	10292
L_90~270 (65) av	26348
L_90~270 (75) av	11790
L_90~270 (85) av	7224
L_45 (65) av	26944
L_45 (75) av	12875
L_45 (85) av	8242

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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: 2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-120D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

Table--1

UNIT:  $\times 10\text{cd}$ 

C (DEG) $\gamma$ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002
5	1021	1018	1015	1012	1015	1015	1014	1011	1013	1010	1013	1011	1014	1015	1015	1012	1015	1018	1021
10	1079	1076	1075	1071	1075	1077	1082	1081	1089	1082	1089	1081	1082	1077	1075	1071	1075	1076	1079
15	1187	1182	1184	1181	1181	1183	1188	1203	1209	1220	1209	1203	1188	1183	1181	1181	1184	1182	1187
20	1300	1269	1263	1265	1278	1278	1279	1279	1276	1288	1276	1279	1279	1278	1278	1265	1263	1269	1300
25	1301	1283	1271	1293	1269	1280	1267	1261	1260	1248	1260	1261	1267	1280	1269	1293	1271	1283	1301
30	1148	1163	1162	1165	1132	1128	1098	1086	1080	1081	1080	1086	1098	1128	1132	1165	1162	1163	1148
35	967	970	963	960	941	923	904	897	890	882	890	897	904	923	941	960	963	970	967
40	730	737	724	722	706	719	708	705	693	676	693	705	708	719	706	722	724	737	730
45	386	396	384	391	381	385	373	380	355	350	355	380	373	385	381	391	384	396	386
50	219	220	218	216	207	202	200	201	197	197	197	201	200	202	207	216	218	220	219
55	172	173	169	170	170	175	178	180	178	173	178	180	178	175	170	170	169	173	172
60	154	153	150	148	148	151	153	156	153	148	153	156	153	151	148	148	150	153	154
65	122	121	117	115	113	115	116	121	114	111	114	121	116	115	113	115	117	121	122
70	79.2	79.0	75.8	72.7	69.5	69.0	68.1	69.1	63.9	63.7	63.9	69.1	68.1	69.0	69.5	72.7	75.8	79.0	79.2
75	39.2	39.6	36.4	35.5	33.3	33.4	31.6	31.9	31.0	30.5	31.0	31.9	31.6	33.4	33.3	35.5	36.4	39.6	39.2
80	19.6	19.4	18.2	17.5	16.4	16.0	15.3	14.9	14.6	14.6	14.6	14.9	15.3	16.0	16.4	17.5	18.2	19.4	19.6
85	8.97	8.76	8.31	8.15	7.28	7.14	6.68	6.47	6.26	6.30	6.26	6.47	6.68	7.14	7.28	8.15	8.31	8.76	8.97
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:2018-01-09

$\gamma$  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:0.7200A P:150.1W PF:0.9579 Freq:49.99Hz Lamp Flux:22253.8x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150WoH-5050-120D-PC									DIM.: $\phi$ 0.319*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.24M						Shielding Angle:		

Table--2

UNIT:  $\times 10\text{cd}$ 

$\gamma$ (DEG) \ C (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002		
5	1018	1015	1012	1015	1015	1014	1011	1013	1010	1013	1011	1014	1015	1015	1012	1015	1018		
10	1076	1075	1071	1075	1077	1082	1081	1089	1082	1089	1081	1082	1077	1075	1071	1075	1076		
15	1182	1184	1181	1181	1183	1188	1203	1209	1220	1209	1203	1188	1183	1181	1181	1184	1182		
20	1269	1263	1265	1278	1278	1279	1279	1276	1288	1276	1279	1279	1278	1278	1265	1263	1269		
25	1283	1271	1293	1269	1280	1267	1261	1260	1248	1260	1261	1267	1280	1269	1293	1271	1283		
30	1163	1162	1165	1132	1128	1098	1086	1080	1081	1080	1086	1098	1128	1132	1165	1162	1163		
35	970	963	960	941	923	904	897	890	882	890	897	904	923	941	960	963	970		
40	737	724	722	706	719	708	705	693	676	693	705	708	719	706	722	724	737		
45	396	384	391	381	385	373	380	355	350	355	380	373	385	381	391	384	396		
50	220	218	216	207	202	200	201	197	197	197	201	200	202	207	216	218	220		
55	173	169	170	170	175	178	180	178	173	178	180	178	175	170	170	169	173		
60	153	150	148	148	151	153	156	153	148	153	156	153	151	148	148	150	153		
65	121	117	115	113	115	116	121	114	111	114	121	116	115	113	115	117	121		
70	79.0	75.8	72.7	69.5	69.0	68.1	69.1	63.9	63.7	63.9	69.1	68.1	69.0	69.5	72.7	75.8	79.0		
75	39.6	36.4	35.5	33.3	33.4	31.6	31.9	31.0	30.5	31.0	31.9	31.6	33.4	33.3	35.5	36.4	39.6		
80	19.4	18.2	17.5	16.4	16.0	15.3	14.9	14.6	14.6	14.6	14.9	15.3	16.0	16.4	17.5	18.2	19.4		
85	8.76	8.31	8.15	7.28	7.14	6.68	6.47	6.26	6.30	6.26	6.47	6.68	7.14	7.28	8.15	8.31	8.76		
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:2018-01-09

$\gamma$  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: