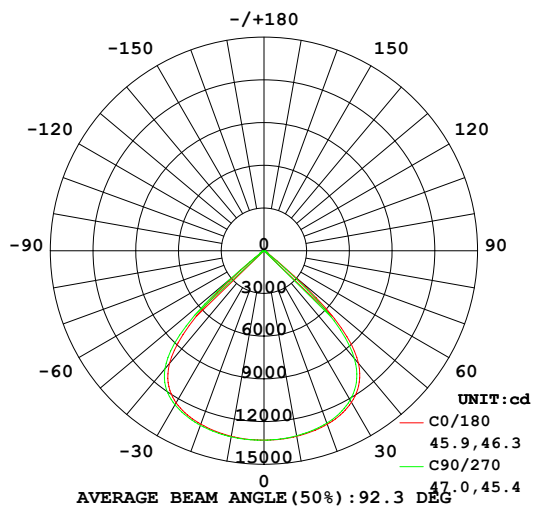


## LUMINAIRE PHOTOMETRIC TEST REPORT

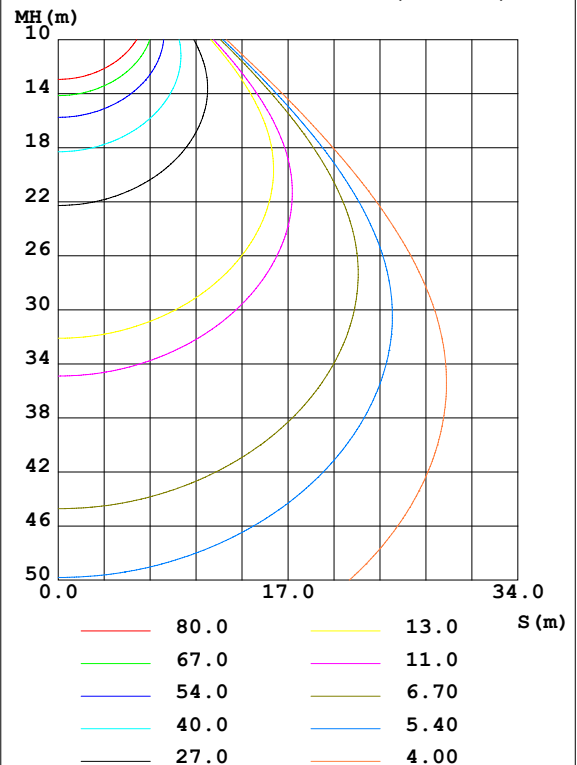
Test:U:220.1V I:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:4.6KG	
SPEC.:AOK-150WoH		DIM.: $\phi 0.318 \times 0.138M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.24M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.85 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	13308	S/MH (C0/180)	1.34
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.38
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	24497	$\eta$ UP, DN (C0-180)	0.0, 48.8
NOMINAL FLUX (lm)	24497.1	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 51.2
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.35

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: 2017-12-27

$\gamma$  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	1323	1321	1320	1321	1323	1326	1327	1326	0- 10	1267	1267	5.17, 5.17
20	1297	1292	1289	1292	1296	1301	1305	1301	10- 20	3715	4982	20.3, 20.3
30	1229	1215	1210	1223	1234	1243	1250	1242	20- 30	5864	10845	44.3, 44.3
40	1032	999.6	987.5	1010	1032	1062	1082	1065	30- 40	7217	18062	73.7, 73.7
50	272.9	226.3	199.9	204.8	218.2	285.0	318.6	320.1	40- 50	5511	23573	96.2, 96.2
60	31.91	30.88	29.10	26.52	28.01	29.38	30.25	30.30	50- 60	598.4	24172	98.7, 98.7
70	17.00	15.78	14.05	12.73	13.62	15.19	16.28	16.55	60- 70	213.9	24386	99.5, 99.5
80	5.415	3.674	2.728	2.968	3.162	3.905	5.036	5.794	70- 80	101.5	24487	100, 100
90	0	0	0	0	0	0	0	0	80- 90	10.03	24497	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	24497	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	24497	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	24497	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	24497	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	24497	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	24497	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	24497	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	24497	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	24497	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 21454 lm

%lum = 87.6%

%lamp = 87.6%

Conical surface Flux(120deg): 24172 lm

%lum = 98.7%

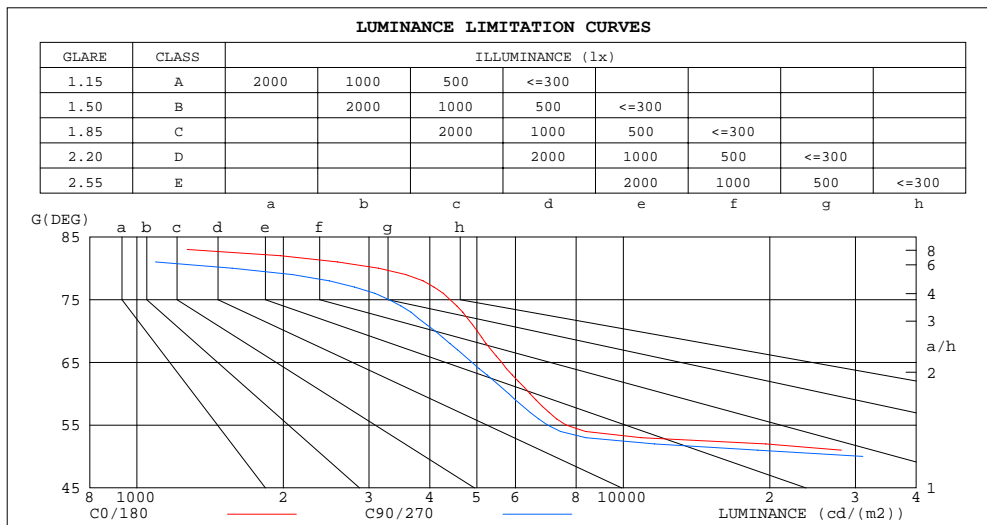
%lamp = 98.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	541	288
80	3141	1570
75	4402	3297
70	5006	4103
65	5621	4885
60	6428	5815
55	7624	6983
50	42766	31076
45	109701	98670

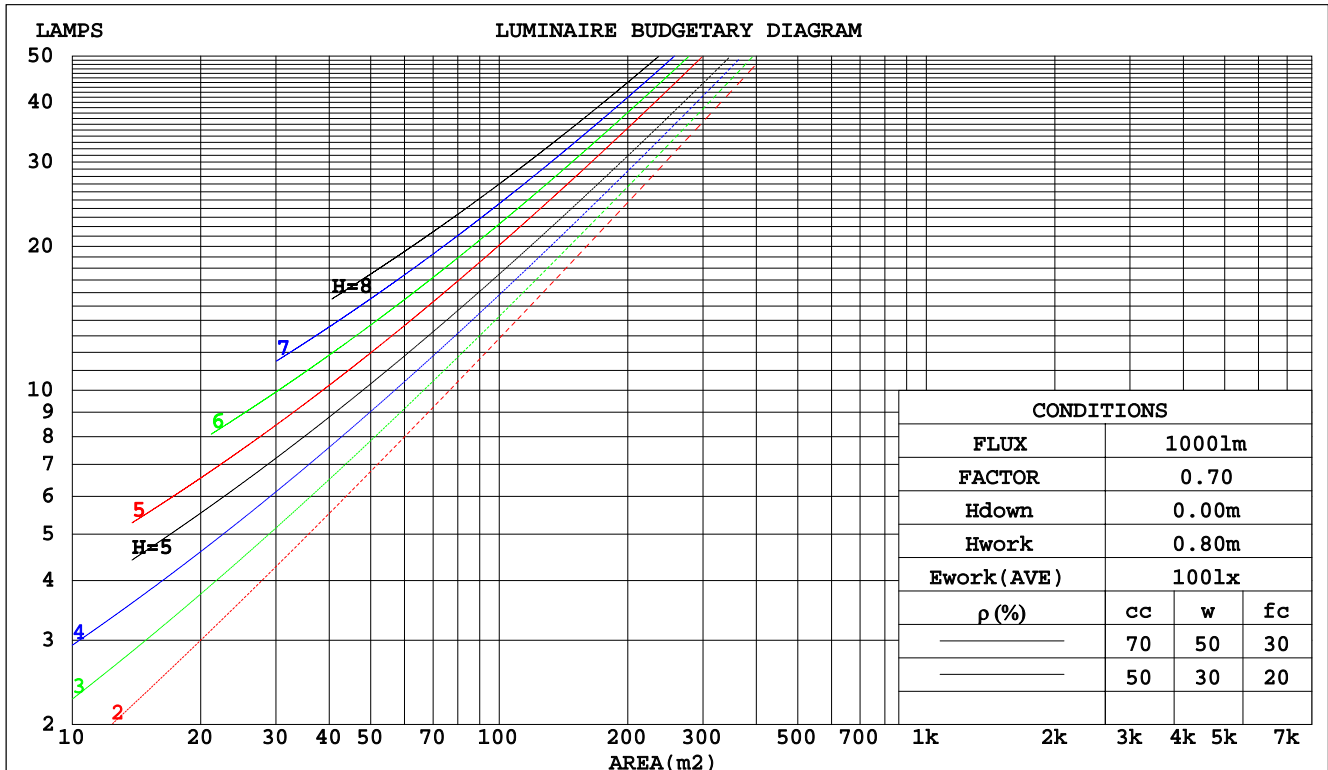
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi$ 0.318*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91
2.0	.00	.95	.91	.98	.93	.90	.95	.91	.88	.91	.88	.86	.89	.86	.84	.82
3.0	.91	.85	.80	.89	.84	.80	.87	.82	.78	.84	.80	.77	.82	.79	.76	.74
4.0	.83	.76	.71	.82	.76	.71	.80	.74	.70	.77	.73	.69	.76	.72	.68	.67
5.0	.76	.69	.64	.75	.68	.64	.73	.67	.63	.71	.66	.62	.70	.65	.62	.60
6.0	.70	.63	.57	.69	.62	.57	.67	.61	.57	.66	.60	.56	.64	.60	.56	.54
7.0	.64	.57	.52	.64	.57	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.49
8.0	.59	.52	.47	.59	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.46	.45
9.0	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.47	.43	.51	.46	.42	.41
10.0	.51	.44	.39	.50	.44	.39	.50	.43	.39	.49	.43	.39	.48	.43	.39	.37



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi$ 0.318*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	.209	.119	.038	.202	.115	.037	.189	.108	.035	.177	.102	.033	.166	.096	.031	
2.0	.204	.112	.034	.198	.109	.034	.187	.104	.032	.177	.099	.031	.168	.095	.030	
3.0	.196	.104	.031	.191	.102	.031	.181	.098	.030	.173	.095	.029	.165	.091	.028	
4.0	.187	.097	.029	.183	.096	.028	.175	.093	.028	.167	.090	.027	.160	.087	.026	
5.0	.179	.091	.026	.175	.090	.026	.168	.087	.026	.161	.085	.025	.154	.083	.025	
6.0	.171	.086	.024	.167	.084	.024	.161	.082	.024	.155	.080	.024	.149	.078	.023	
7.0	.163	.080	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	.143	.074	.022	
8.0	.155	.076	.021	.152	.075	.021	.147	.074	.021	.142	.072	.021	.138	.071	.021	
9.0	.148	.072	.020	.146	.071	.020	.141	.070	.020	.137	.068	.020	.132	.067	.019	
10.0	.142	.068	.019	.139	.067	.019	.135	.066	.019	.131	.065	.018	.127	.064	.018	

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	.142	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.038	.017	.015	.013	
3.0	.150	.114	.085	.129	.098	.074	.088	.068	.052	.051	.040	.030	.016	.013	.010	
4.0	.142	.100	.068	.122	.086	.059	.084	.060	.041	.048	.035	.024	.016	.011	.008	
5.0	.134	.089	.055	.115	.077	.048	.079	.054	.034	.046	.031	.020	.015	.010	.007	
6.0	.128	.080	.045	.110	.069	.039	.076	.048	.028	.044	.028	.017	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.072	.044	.024	.042	.026	.014	.014	.009	.005	
8.0	.116	.067	.033	.100	.058	.028	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.111	.062	.028	.096	.054	.025	.066	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH					DIM.: $\phi$ 0.318*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	13.8	15.0	14.1	15.2	15.4	13.5	14.7	13.7	14.8	15.0
3H	13.7	14.8	14.0	15.0	15.2	13.3	14.4	13.6	14.6	14.8
4H	13.6	14.6	13.9	14.8	15.1	13.2	14.2	13.5	14.5	14.7
6H	13.5	14.5	13.8	14.7	15.0	13.2	14.1	13.5	14.3	14.6
8H	13.5	14.4	13.8	14.6	14.9	13.1	14.0	13.4	14.3	14.5
12H	13.4	14.3	13.8	14.6	14.9	13.1	13.9	13.4	14.2	14.5
4H 2H	13.6	14.6	13.9	14.8	15.1	13.2	14.2	13.5	14.5	14.7
3H	13.4	14.3	13.8	14.6	14.9	13.1	13.9	13.4	14.2	14.5
4H	13.4	14.1	13.7	14.4	14.8	13.0	13.8	13.4	14.1	14.4
6H	13.3	14.0	13.7	14.3	14.7	12.9	13.6	13.3	13.9	14.3
8H	13.2	13.9	13.6	14.2	14.6	12.9	13.5	13.3	13.8	14.2
12H	13.2	13.8	13.6	14.1	14.5	12.8	13.4	13.2	13.8	14.2
8H 4H	13.2	13.9	13.6	14.2	14.6	12.9	13.5	13.3	13.9	14.2
6H	13.2	13.7	13.6	14.1	14.5	12.8	13.3	13.2	13.7	14.1
8H	13.1	13.6	13.6	14.0	14.4	12.7	13.2	13.2	13.6	14.0
12H	13.1	13.5	13.5	13.9	14.4	12.7	13.1	13.2	13.5	14.0
12H 4H	13.2	13.8	13.6	14.1	14.5	12.8	13.4	13.2	13.8	14.2
6H	13.1	13.6	13.6	14.0	14.4	12.7	13.2	13.2	13.6	14.1
8H	13.1	13.5	13.5	13.9	14.4	12.7	13.1	13.2	13.5	14.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -10.6					+ 3.0 / -11.4				
1.5H	+ 2.6 / -11.5					+ 2.8 / -11.8				
2.0H	+ 7.2 / - 9.3					+ 7.3 / - 9.3				

CIE Pub.117, 24497 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.1$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

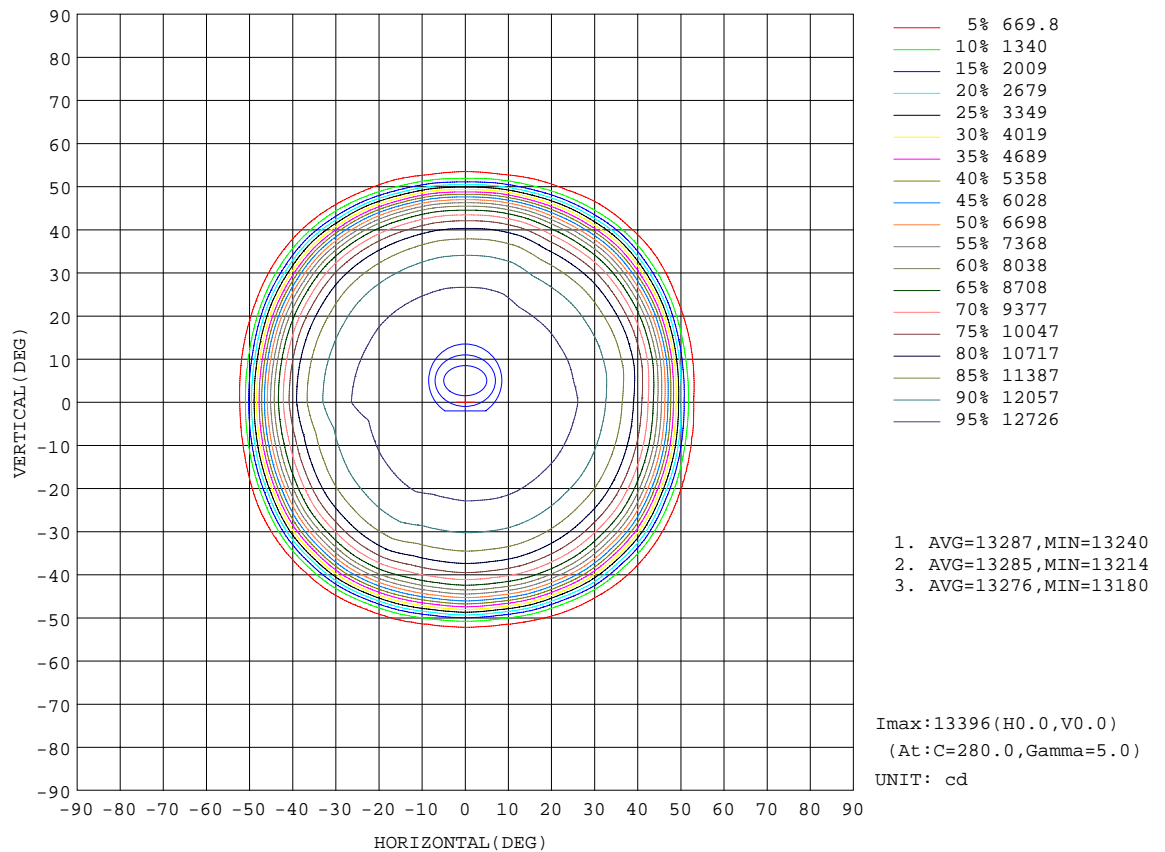
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	66	61	74	66	61	73	66	61	56
0.80	84	76	71	84	76	71	82	75	71	66
1.00	92	84	79	91	84	79	89	84	78	73
1.25	97	90	86	96	90	85	94	88	85	79
1.50	101	95	90	99	94	90	97	92	89	83
2.00	105	100	96	104	99	95	101	97	94	88
2.50	107	102	99	106	101	98	102	99	96	89
3.00	109	105	102	107	104	101	104	101	98	91
4.00	112	108	105	110	106	104	106	103	101	94
5.00	113	110	107	111	108	106	107	105	103	95
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:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	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:2017-12-27

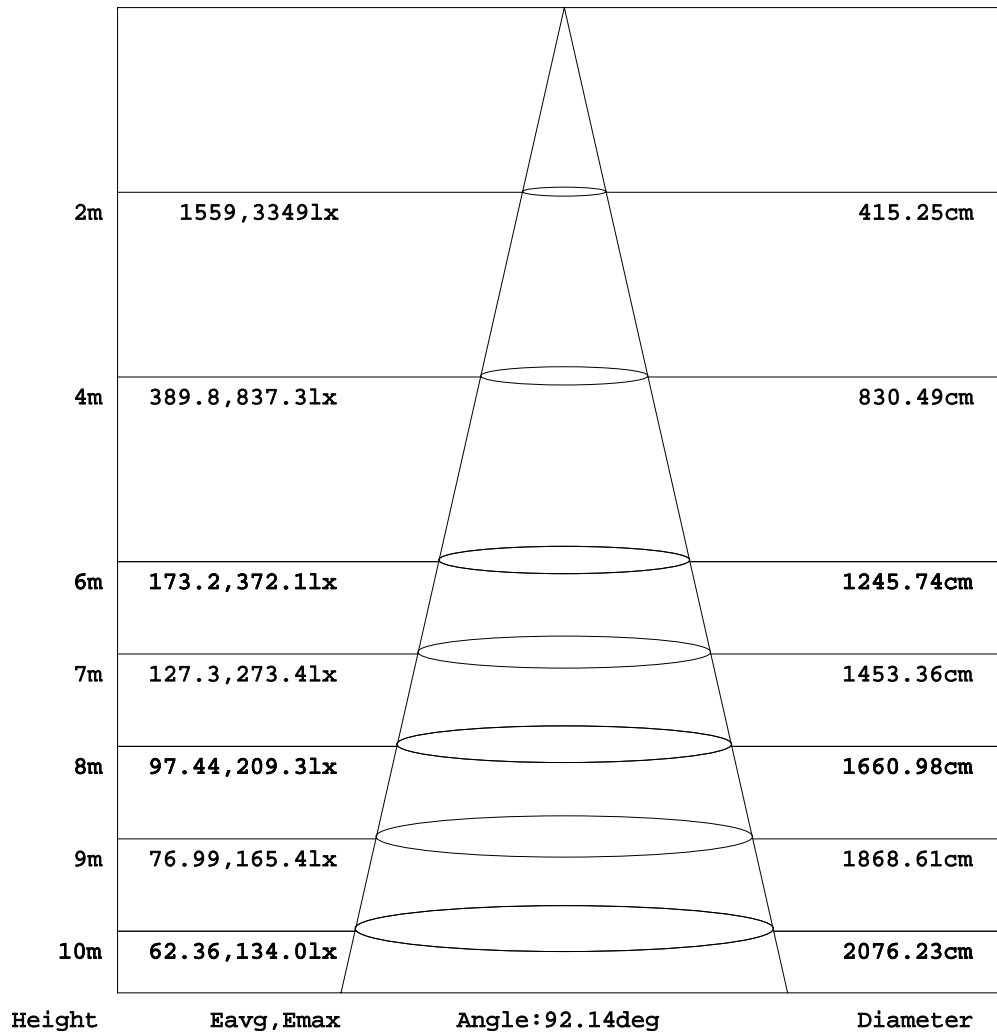
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=0.9852]  
Remarks:



### AAI Figure

Test:U:220.1V I:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Flux out:22529 lm



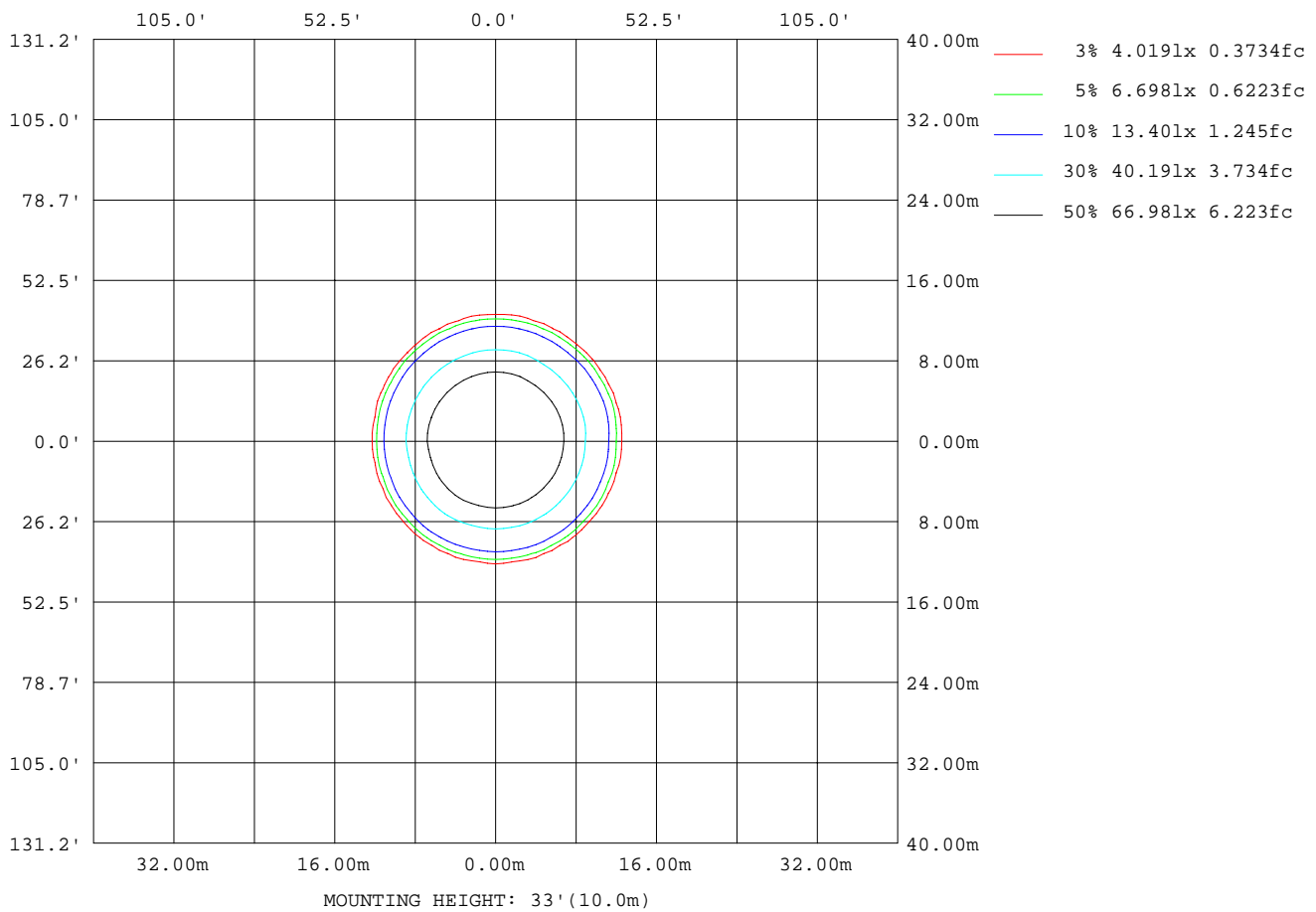
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\Phi$ 0.318*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:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

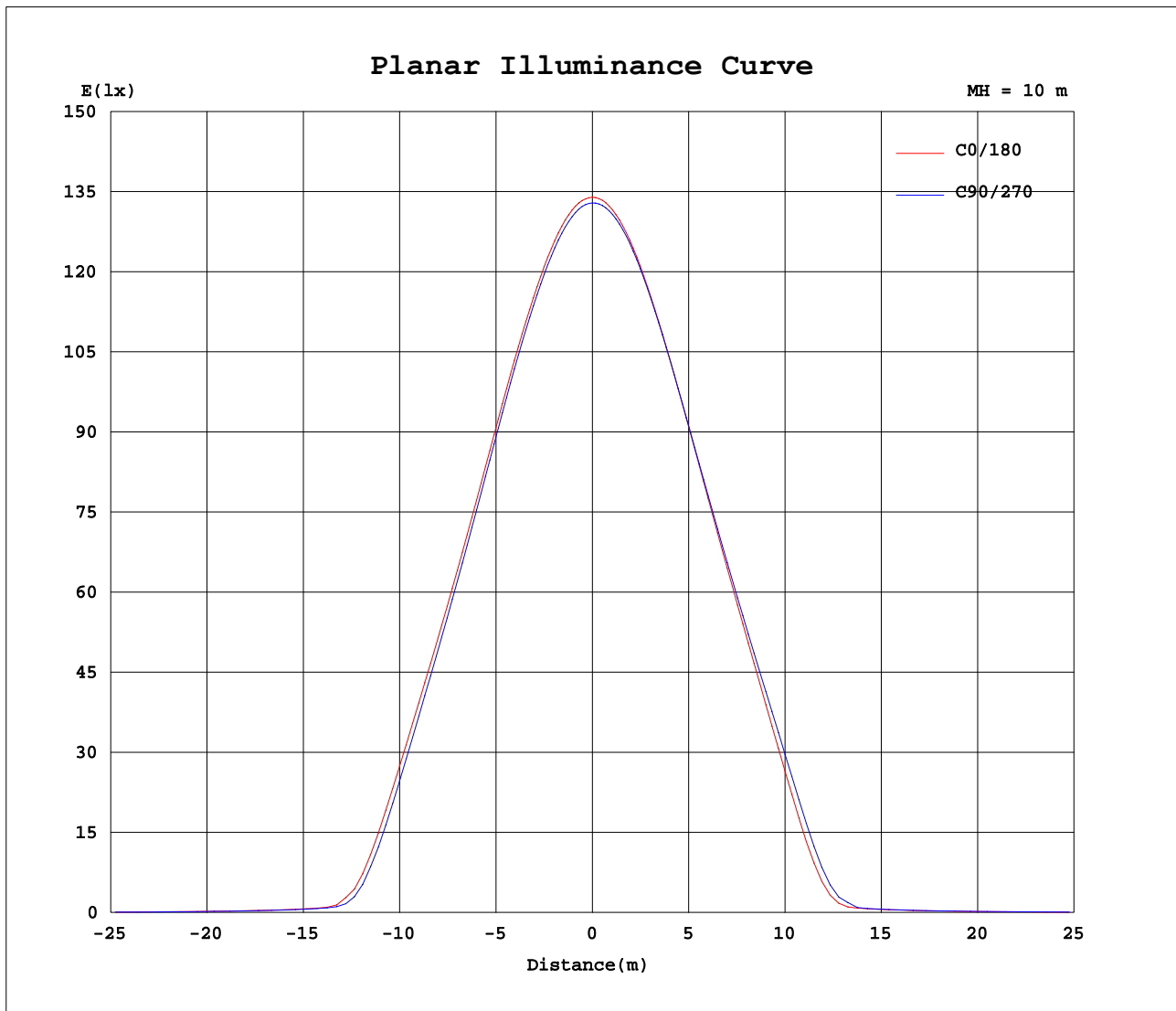
AvgL	cd/m2
L_0~180 (65) av	5137
L_0~180 (75) av	3815
L_0~180 (85) av	447
L_90~270 (65) av	5138
L_90~270 (75) av	3726
L_90~270 (85) av	386
L_45 (65) av	5052
L_45 (75) av	3775
L_45 (85) av	405

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-27

$\gamma$  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: 2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm																		
NAME: AOK-oH									TYPE:LED					WEIGHT:4.6KG				
SPEC.:AOK-150WoH									DIM.: $\phi$ 0.318*0.138M					SERIAL No.:1				
MFR.: AOK									SUR.: $\phi$ 0.24M					Shielding Angle:				

Table--1

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

$\gamma$ (DEG) \ C (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330
5	1329	1328	1328	1328	1328	1328	1328	1327	1327	1327	1327	1327	1328	1328	1328	1328	1328	1328	1329
10	1323	1323	1323	1322	1321	1321	1321	1320	1320	1320	1319	1319	1322	1322	1321	1320	1321	1321	1323
15	1313	1312	1312	1311	1309	1309	1309	1308	1307	1307	1307	1307	1310	1310	1309	1309	1308	1308	1312
20	1297	1296	1295	1295	1292	1292	1292	1290	1289	1289	1288	1289	1293	1293	1291	1291	1291	1290	1296
25	1271	1269	1268	1266	1263	1262	1262	1261	1259	1259	1258	1259	1267	1267	1265	1265	1264	1264	1272
30	1229	1225	1223	1220	1215	1214	1214	1213	1210	1210	1209	1210	1224	1224	1222	1222	1221	1222	1234
35	1158	1154	1150	1146	1138	1136	1136	1135	1130	1130	1127	1129	1151	1151	1147	1149	1147	1149	1165
40	1032	1026	1020	1014	1001	998	996	994	985	987	982	986	1012	1014	1007	1012	1008	1013	1032
45	770	768	753	750	729	729	717	714	693	698	685	696	719	728	718	729	719	729	743
50	273	281	248	255	220	232	203	206	189	200	186	200	199	212	198	212	200	216	218
55	43.4	43.5	42.5	42.8	42.2	42.2	41.2	41.1	40.3	40.1	39.2	39.0	36.8	36.7	36.0	36.0	35.6	36.0	38.0
60	31.9	31.8	31.1	31.3	30.9	30.8	30.1	29.9	29.3	29.1	28.4	28.2	26.8	26.7	26.3	26.3	26.0	26.3	28.0
65	23.6	23.4	22.9	23.0	22.6	22.3	21.8	21.5	21.0	20.7	20.1	19.8	18.9	18.7	18.5	18.4	18.3	18.5	19.8
70	17.0	16.8	16.4	16.3	15.9	15.7	15.1	14.8	14.4	14.0	13.6	13.4	12.8	12.8	12.7	12.6	12.5	12.6	13.6
75	11.3	11.3	10.8	10.7	10.4	10.1	9.52	9.25	8.71	8.54	8.29	8.22	7.87	7.89	7.69	7.72	7.61	7.73	8.44
80	5.41	5.18	4.62	4.38	3.78	3.56	3.07	2.96	2.66	2.73	2.66	2.86	2.85	3.00	2.94	3.09	2.93	2.95	3.16
85	0.47	0.44	0.38	0.35	0.31	0.29	0.25	0.25	0.24	0.25	0.25	0.27	0.27	0.29	0.29	0.30	0.30	0.31	0.31
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:2017-12-27

$\gamma$  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:0.7312A P:154.2W PF:0.9585 Freq:49.99Hz Lamp Flux:24497.1x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150WoH									DIM.: $\phi$ 0.318*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.24M						Shielding Angle:		

Table--2

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

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330		
5	1329	1329	1330	1330	1330	1330	1330	1330	1330	1331	1331	1330	1330	1330	1330	1330	1330		
10	1324	1325	1325	1325	1326	1326	1326	1327	1327	1328	1328	1325	1325	1326	1326	1326	1326		
15	1313	1314	1315	1316	1316	1317	1317	1319	1319	1320	1319	1315	1316	1316	1316	1317	1317		
20	1297	1298	1299	1301	1302	1302	1303	1304	1305	1306	1306	1300	1301	1302	1302	1303	1303		
25	1273	1275	1275	1277	1279	1279	1281	1283	1283	1284	1284	1277	1277	1278	1279	1281	1281		
30	1236	1237	1238	1242	1243	1245	1246	1250	1250	1252	1251	1240	1241	1243	1243	1246	1245		
35	1169	1172	1174	1180	1182	1184	1187	1193	1193	1196	1194	1178	1179	1183	1184	1188	1186		
40	1039	1045	1050	1060	1064	1068	1072	1082	1082	1087	1085	1060	1062	1068	1070	1076	1073		
45	750	770	777	802	808	822	827	843	838	848	840	814	813	826	823	833	824		
50	223	255	253	287	283	310	307	330	319	332	318	320	312	328	317	330	312		
55	37.5	38.2	38.3	39.3	39.4	40.4	40.4	41.1	40.6	40.9	40.2	41.2	40.5	40.8	40.2	40.6	40.2		
60	27.8	28.4	28.6	29.3	29.4	30.1	30.1	30.5	30.2	30.5	30.0	30.7	30.3	30.3	29.8	29.9	29.5		
65	19.8	20.4	20.8	21.5	21.8	22.3	22.5	22.8	22.8	23.0	22.7	23.0	22.7	22.6	22.3	22.3	22.0		
70	13.7	14.2	14.5	15.0	15.4	15.8	16.0	16.3	16.3	16.5	16.4	16.6	16.5	16.6	16.4	16.2	16.0		
75	8.43	8.85	9.12	9.75	9.92	10.3	10.5	10.8	10.7	11.1	11.0	11.2	11.1	11.2	10.9	10.9	10.7		
80	3.14	3.42	3.51	3.87	3.94	4.29	4.57	4.94	5.04	5.45	5.38	5.63	5.71	5.88	5.79	5.72	5.38		
85	0.30	0.31	0.31	0.32	0.32	0.34	0.36	0.40	0.42	0.47	0.48	0.50	0.50	0.52	0.50	0.51	0.47		
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: 2017-12-27

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: