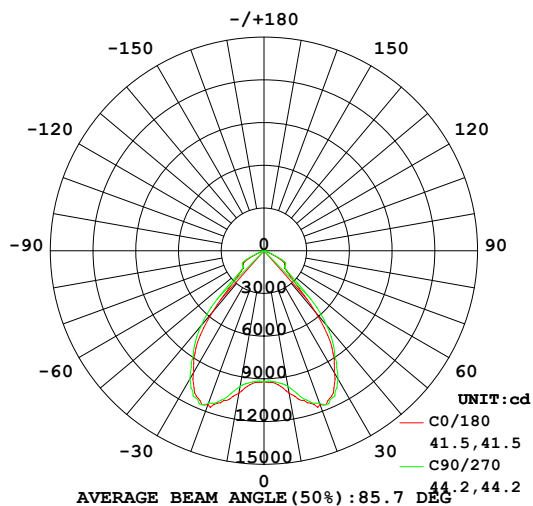


## LUMINAIRE PHOTOMETRIC TEST REPORT

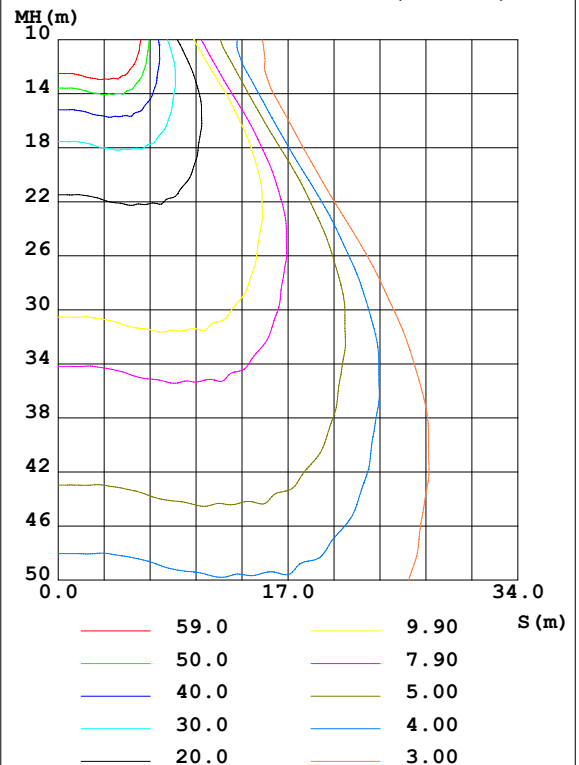
Test:U:220.1V I:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.48 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	11699	S/MH (C0/180)	1.21
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	19901	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	19901.4	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:2018-01-02

$\gamma$  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	1014	990.1	965.4	990.1	1014	990.1	965.4	990.1	0- 10	906.6	906.6	4.56,4.56
20	1150	1150	1138	1150	1150	1150	1138	1150	10- 20	3090	3996	20.1,20.1
30	990.7	1024	1041	1024	990.7	1024	1041	1024	20- 30	5161	9158	46,46
40	562.4	637.7	681.6	637.7	562.4	637.7	681.6	637.7	30- 40	5247	14405	72.4,72.4
50	191.6	194.0	201.3	194.0	191.6	194.0	201.3	194.0	40- 50	2759	17164	86.2,86.2
60	162.7	166.6	176.4	166.6	162.7	166.6	176.4	166.6	50- 60	1610	18774	94.3,94.3
70	25.05	26.15	32.82	26.15	25.05	26.15	32.82	26.15	60- 70	930.7	19704	99,99
80	7.394	7.403	8.034	7.403	7.394	7.403	8.034	7.403	70- 80	145.5	19850	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	51.51	19901	100,100
100	0	0	0	0	0	0	0	0	90-100	0	19901	100,100
110	0	0	0	0	0	0	0	0	100-110	0	19901	100,100
120	0	0	0	0	0	0	0	0	110-120	0	19901	100,100
130	0	0	0	0	0	0	0	0	120-130	0	19901	100,100
140	0	0	0	0	0	0	0	0	130-140	0	19901	100,100
150	0	0	0	0	0	0	0	0	140-150	0	19901	100,100
160	0	0	0	0	0	0	0	0	150-160	0	19901	100,100
170	0	0	0	0	0	0	0	0	160-170	0	19901	100,100
180	0	0	0	0	0	0	0	0	170-180	0	19901	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 16176 lm

%lum = 81.3%

%lamp = 81.3%

Conical surface Flux(120deg): 18774 lm

%lum = 94.3%

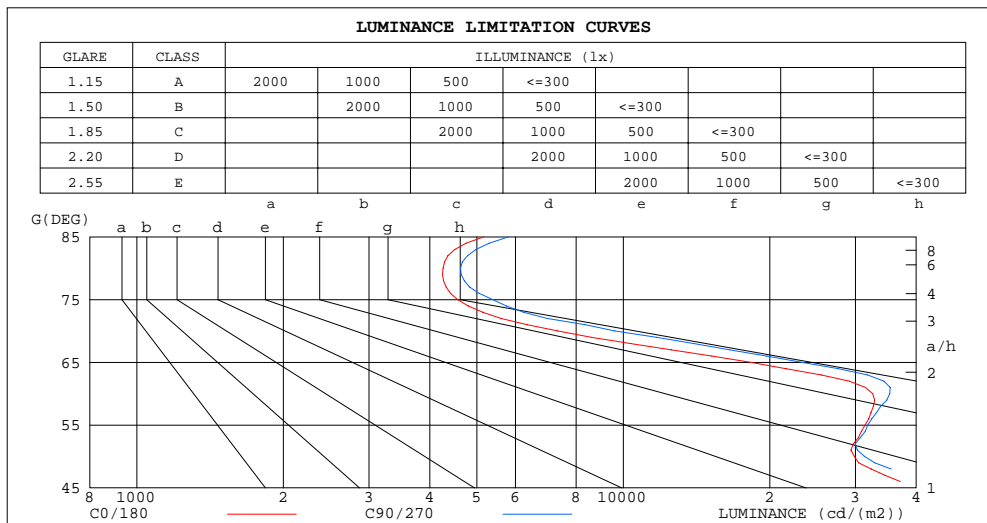
%lamp = 94.3%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D-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	5170	5808
80	4261	4628
75	4562	5385
70	7329	9599
65	18260	23259
60	32560	35290
55	31398	31805
50	29834	31332
45	40091	56771

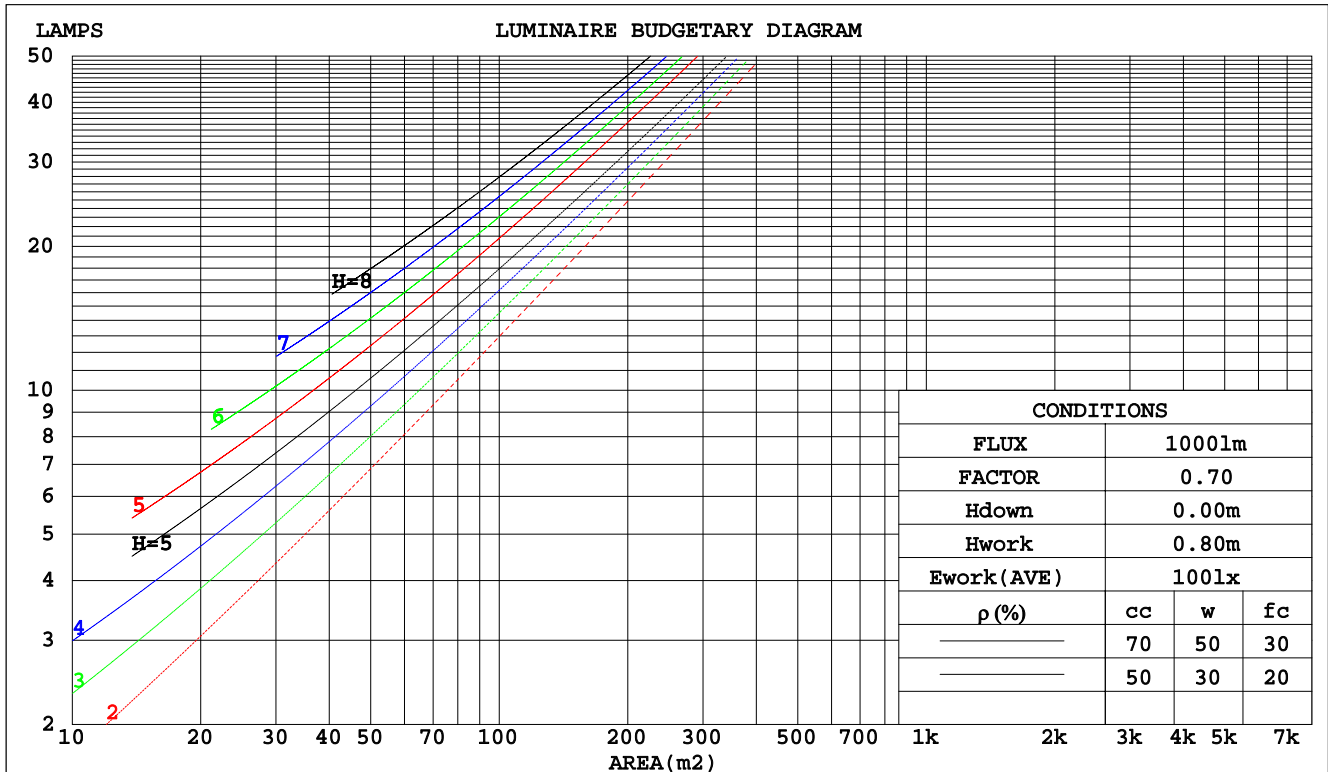
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-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	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.84	.82	.80
3.0	.89	.83	.78	.88	.82	.77	.85	.80	.76	.82	.78	.75	.80	.76	.73	.72
4.0	.81	.74	.69	.80	.73	.68	.78	.72	.68	.75	.71	.67	.73	.69	.66	.64
5.0	.74	.67	.61	.73	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.59	.58
6.0	.68	.61	.55	.67	.60	.55	.65	.59	.55	.64	.58	.54	.62	.58	.54	.52
7.0	.63	.55	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.58	.53	.49	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.45	.43
9.0	.54	.46	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
10.0	.50	.43	.38	.49	.43	.38	.48	.42	.38	.48	.42	.38	.47	.41	.38	.36



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-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	.223	.127	.040	.216	.123	.039	.204	.117	.037	.192	.111	.035	.181	.105	.034	
2.0	.217	.119	.037	.211	.116	.036	.200	.111	.035	.190	.107	.033	.181	.102	.032	
3.0	.207	.110	.033	.202	.108	.033	.193	.104	.032	.184	.101	.031	.176	.097	.030	
4.0	.197	.102	.030	.192	.101	.030	.184	.098	.029	.176	.095	.029	.169	.092	.028	
5.0	.186	.095	.028	.182	.094	.027	.175	.091	.027	.168	.089	.026	.162	.086	.026	
6.0	.177	.089	.025	.173	.087	.025	.166	.085	.025	.160	.083	.024	.154	.081	.024	
7.0	.167	.083	.023	.164	.082	.023	.158	.080	.023	.153	.078	.023	.148	.077	.023	
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.146	.074	.021	.141	.072	.021	
9.0	.151	.073	.020	.148	.072	.020	.144	.071	.020	.139	.070	.020	.135	.069	.020	
10.0	.144	.069	.019	.141	.068	.019	.137	.067	.019	.133	.066	.019	.129	.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	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.083	.131	.098	.072	.090	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.081	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.130	.080	.044	.111	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.101	.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	.064	.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:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-120D-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	13.7	14.9	15.1	14.2	15.4	14.4	15.6	15.8
3H	13.5	14.7	13.8	14.9	15.1	14.3	15.4	14.6	15.7	15.9
4H	13.5	14.5	13.8	14.8	15.0	14.3	15.3	14.5	15.5	15.8
6H	13.4	14.4	13.7	14.6	14.9	14.2	15.2	14.5	15.4	15.7
8H	13.4	14.3	13.7	14.6	14.9	14.1	15.1	14.5	15.4	15.6
12H	13.3	14.2	13.7	14.5	14.8	14.1	15.0	14.4	15.3	15.6
4H 2H	13.7	14.7	14.0	15.0	15.2	14.3	15.3	14.6	15.6	15.8
3H	13.7	14.6	14.1	14.9	15.2	14.4	15.3	14.8	15.6	15.9
4H	13.7	14.5	14.0	14.8	15.1	14.4	15.2	14.7	15.5	15.8
6H	13.6	14.3	14.0	14.7	15.0	14.3	15.0	14.7	15.4	15.7
8H	13.6	14.3	14.0	14.6	15.0	14.3	15.0	14.7	15.3	15.7
12H	13.6	14.2	14.0	14.6	14.9	14.3	14.9	14.7	15.2	15.6
8H 4H	13.6	14.2	14.0	14.6	15.0	14.3	14.9	14.7	15.3	15.7
6H	13.5	14.1	14.0	14.5	14.9	14.2	14.8	14.6	15.2	15.6
8H	13.5	14.0	14.0	14.4	14.9	14.2	14.7	14.6	15.1	15.5
12H	13.5	13.9	14.0	14.3	14.8	14.2	14.6	14.7	15.0	15.5
12H 4H	13.5	14.1	13.9	14.5	14.9	14.2	14.8	14.6	15.2	15.6
6H	13.5	14.0	13.9	14.4	14.8	14.2	14.7	14.6	15.1	15.5
8H	13.5	13.9	13.9	14.3	14.8	14.2	14.6	14.6	15.0	15.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 1.8					+ 1.3 / - 2.0				
1.5H	+ 2.6 / - 2.1					+ 2.6 / - 2.4				
2.0H	+ 0.7 / - 1.4					+ 1.9 / - 1.9				

CIE Pub.117, 19901 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 10.4$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

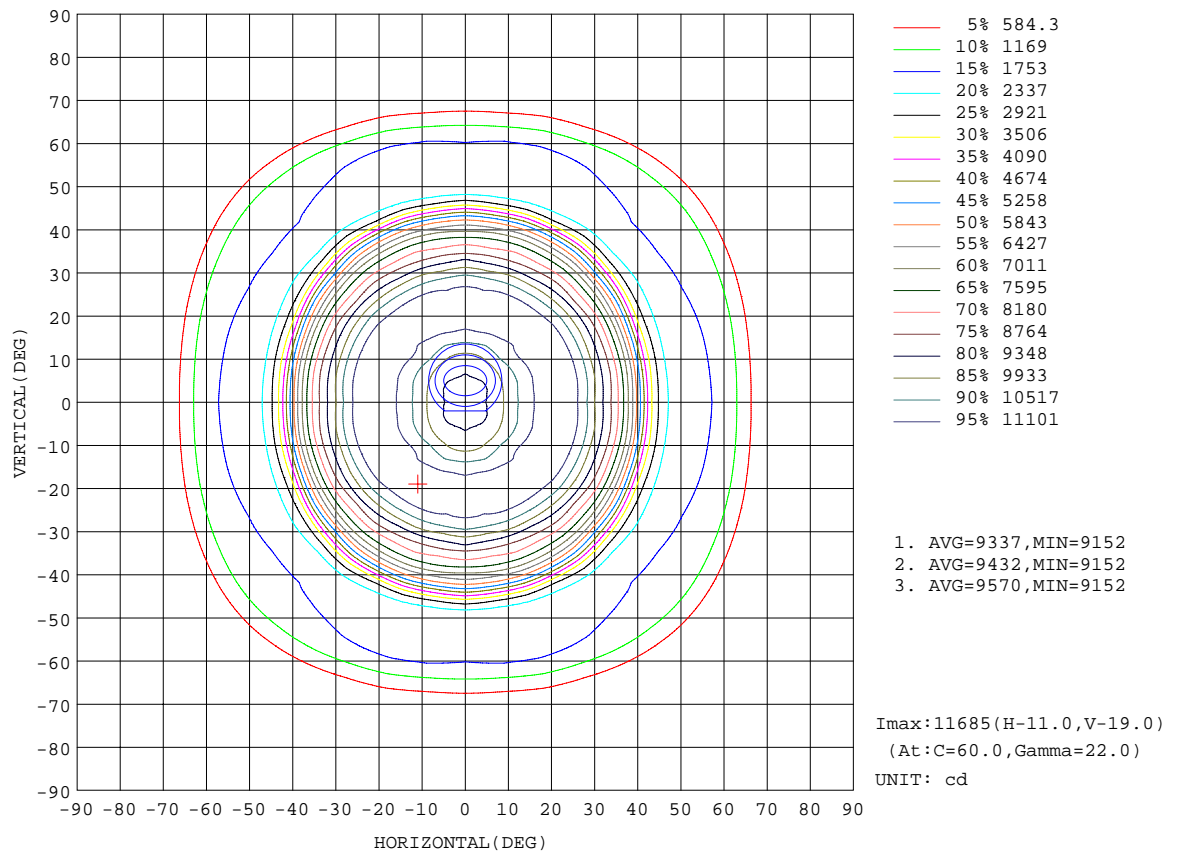
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	65	60	73	65	60	73	65	60	55
0.80	83	75	70	82	75	69	81	74	69	64
1.00	90	82	77	89	82	77	87	82	76	71
1.25	96	88	83	94	88	83	92	86	82	77
1.50	99	93	88	98	92	87	95	90	86	81
2.00	104	98	94	102	97	93	99	95	91	85
2.50	106	101	97	105	100	96	101	97	94	88
3.00	109	104	100	107	103	99	103	100	97	90
4.00	111	107	104	109	106	103	105	103	100	93
5.00	113	110	107	111	108	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:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-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:2018-01-02

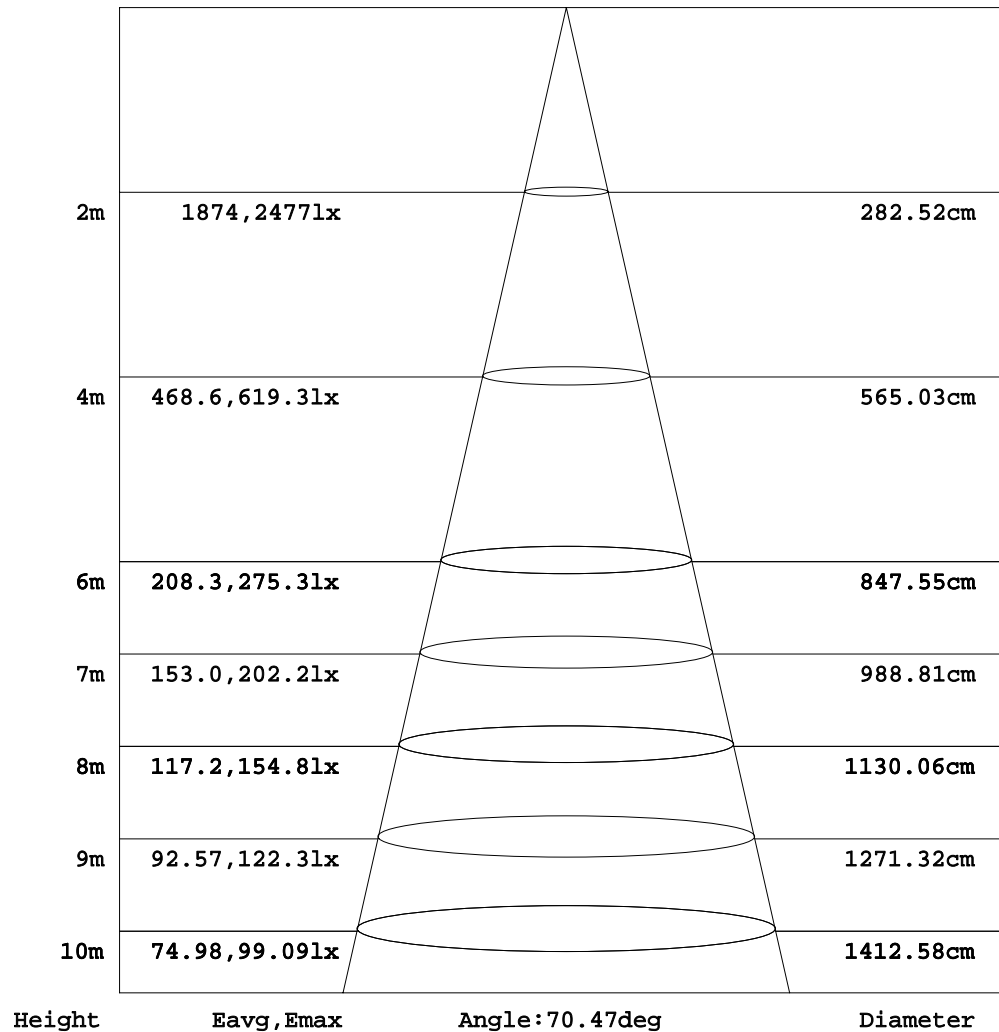
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:220.1V I:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

Flux out:12434 lm



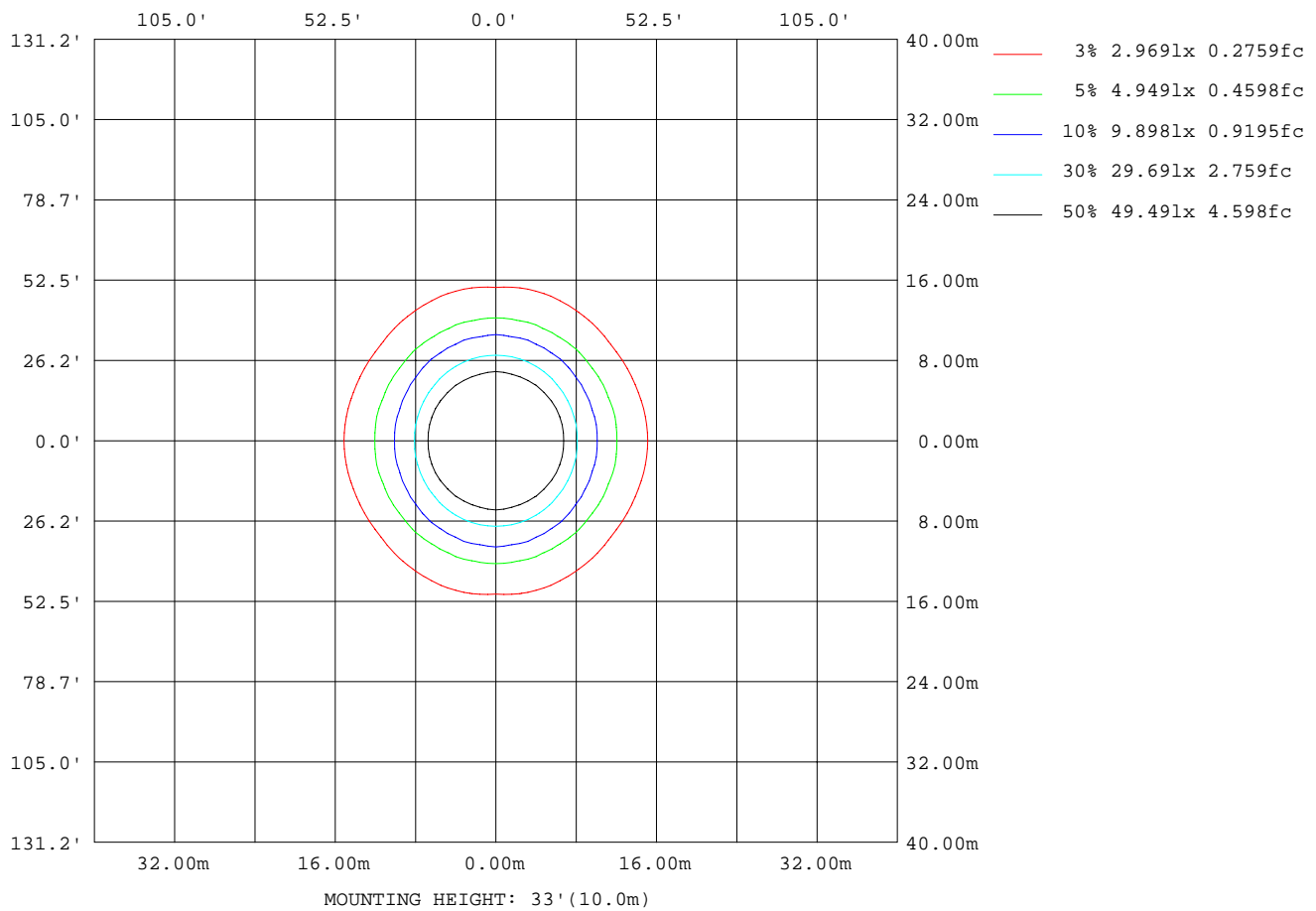
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	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:2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

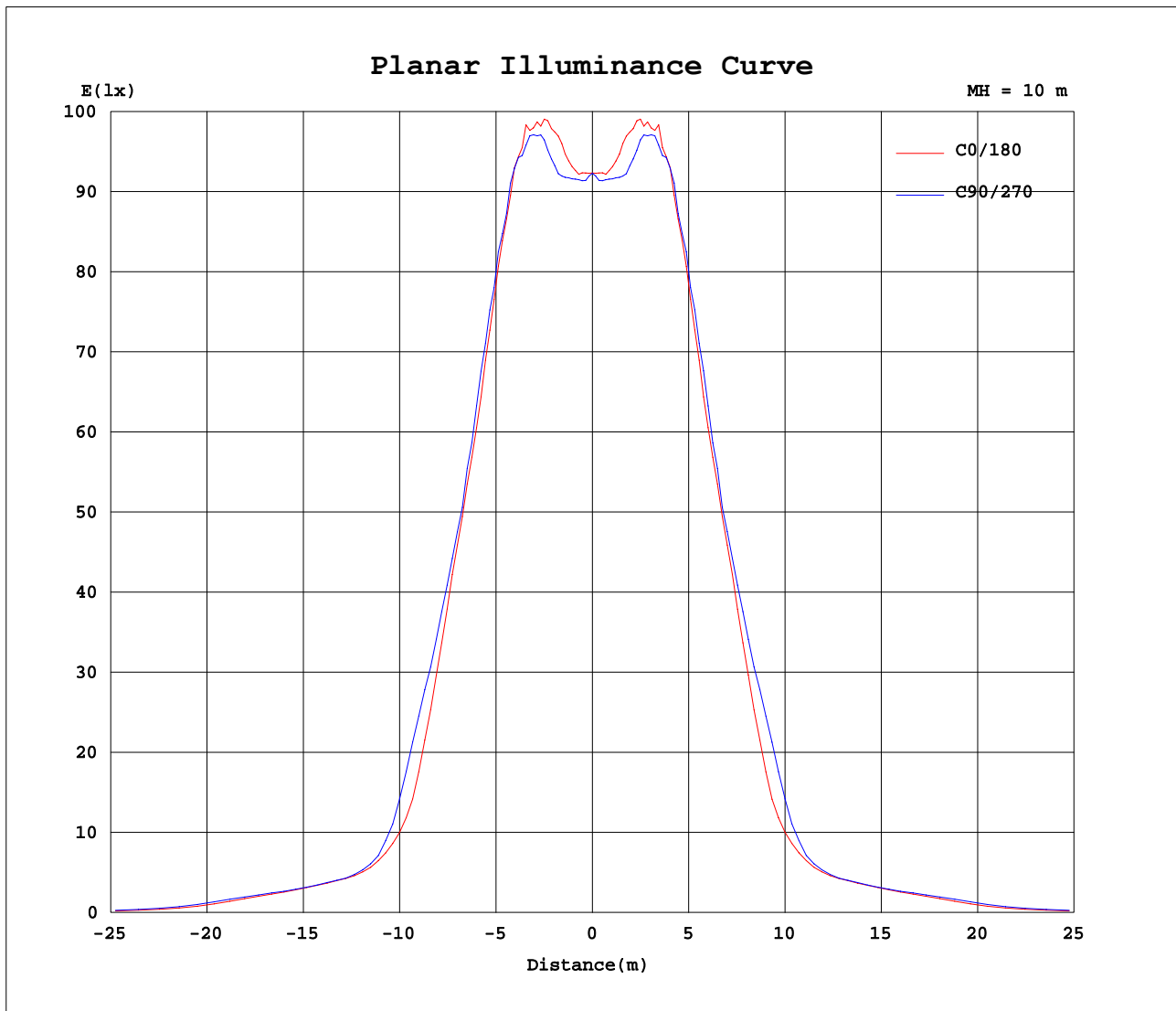
AvgL	cd/m2
L_0~180 (65) av	18248
L_0~180 (75) av	4559
L_0~180 (85) av	5166
L_90~270 (65) av	23249
L_90~270 (75) av	5383
L_90~270 (85) av	5805
L_45 (65) av	20484
L_45 (75) av	4502
L_45 (85) av	5239

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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: 2018-01-02

$\gamma$  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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	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	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923
5	937	934	933	927	926	929	932	930	930	926	930	930	932	929	926	927	933	934	937
10	1014	1013	1005	1001	992	988	981	975	972	965	972	975	981	988	992	1001	1005	1013	1014
15	1089	1093	1085	1089	1097	1088	1082	1073	1076	1077	1076	1073	1082	1088	1097	1089	1085	1093	1089
20	1150	1157	1158	1145	1145	1154	1164	1162	1169	1138	1169	1162	1164	1154	1145	1145	1158	1157	1150
25	1126	1129	1131	1133	1126	1134	1126	1130	1145	1138	1145	1130	1126	1134	1126	1133	1131	1129	1126
30	991	1010	1018	1028	1025	1023	1019	1020	1030	1041	1030	1020	1019	1023	1025	1028	1018	1010	991
35	834	844	844	853	846	853	852	851	864	865	864	851	852	853	846	853	844	844	834
40	562	576	584	604	622	654	666	685	689	682	689	685	666	654	622	604	584	576	562
45	283	290	287	294	305	337	344	375	381	401	381	375	344	337	305	294	287	290	283
50	192	195	190	191	191	196	191	196	199	201	199	196	191	196	191	191	190	195	192
55	180	178	175	175	175	180	183	187	187	182	187	187	183	180	175	175	175	178	180
60	163	162	163	163	164	169	174	180	180	176	180	180	174	169	164	163	163	162	163
65	77.1	80.7	81.8	82.4	84.1	89.3	93.0	103	99.4	98.3	99.4	103	93.0	89.3	84.1	82.4	81.8	80.7	77.1
70	25.1	26.1	23.5	24.4	24.4	27.9	28.9	32.2	31.7	32.8	31.7	32.2	28.9	27.9	24.4	24.4	23.5	26.1	25.1
75	11.8	11.8	11.5	11.6	11.4	12.0	12.6	13.1	13.6	13.9	13.6	13.1	12.6	12.0	11.4	11.6	11.5	11.8	11.8
80	7.39	7.43	7.42	7.46	7.33	7.48	7.47	7.68	7.85	8.03	7.85	7.68	7.47	7.48	7.33	7.46	7.42	7.43	7.39
85	4.50	4.53	4.53	4.57	4.54	4.60	4.59	4.72	4.88	5.06	4.88	4.72	4.59	4.60	4.54	4.57	4.53	4.53	4.50
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:2018-01-02

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:0.7328A P:149.1W PF:0.9586 Freq:49.99Hz Lamp Flux:19901.4x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

Table--2

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

C (DEG) $\gamma$ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923	923		
5	934	933	927	926	929	932	930	930	926	930	930	932	929	926	927	933	934		
10	1013	1005	1001	992	988	981	975	972	965	972	975	981	988	992	1001	1005	1013		
15	1093	1085	1089	1097	1088	1082	1073	1076	1077	1076	1073	1082	1088	1097	1089	1085	1093		
20	1157	1158	1145	1145	1154	1164	1162	1169	1138	1169	1162	1164	1154	1145	1145	1158	1157		
25	1129	1131	1133	1126	1134	1126	1130	1145	1138	1145	1130	1126	1134	1126	1133	1131	1129		
30	1010	1018	1028	1025	1023	1019	1020	1030	1041	1030	1020	1019	1023	1025	1028	1018	1010		
35	844	844	853	846	853	852	851	864	865	864	851	852	853	846	853	844	844		
40	576	584	604	622	654	666	685	689	682	689	685	666	654	622	604	584	576		
45	290	287	294	305	337	344	375	381	401	381	375	344	337	305	294	287	290		
50	195	190	191	191	196	191	196	199	201	199	196	191	196	191	191	190	195		
55	178	175	175	175	180	183	187	187	182	187	187	183	180	175	175	175	178		
60	162	163	163	164	169	174	180	180	176	180	180	174	169	164	163	163	162		
65	80.7	81.8	82.4	84.1	89.3	93.0	103	99.4	98.3	99.4	103	93.0	89.3	84.1	82.4	81.8	80.7		
70	26.1	23.5	24.4	24.4	27.9	28.9	32.2	31.7	32.8	31.7	32.2	28.9	27.9	24.4	24.4	23.5	26.1		
75	11.8	11.5	11.6	11.4	12.0	12.6	13.1	13.6	13.9	13.6	13.1	12.6	12.0	11.4	11.6	11.5	11.8		
80	7.43	7.42	7.46	7.33	7.48	7.47	7.68	7.85	8.03	7.85	7.68	7.47	7.48	7.33	7.46	7.42	7.43		
85	4.53	4.53	4.57	4.54	4.60	4.59	4.72	4.88	5.06	4.88	4.72	4.59	4.60	4.54	4.57	4.53	4.53		
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:2018-01-02

$\gamma$  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: