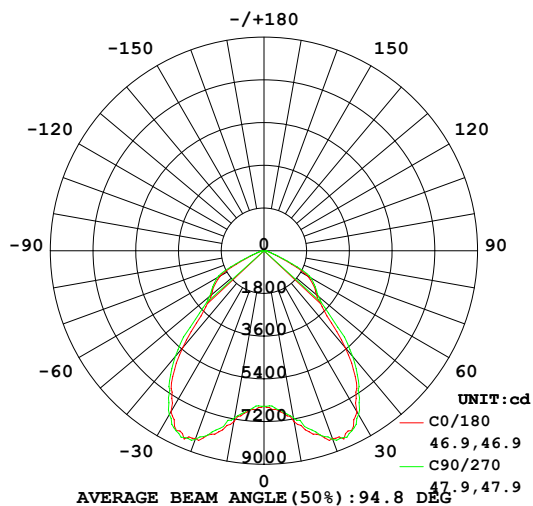


## LUMINAIRE PHOTOMETRIC TEST REPORT

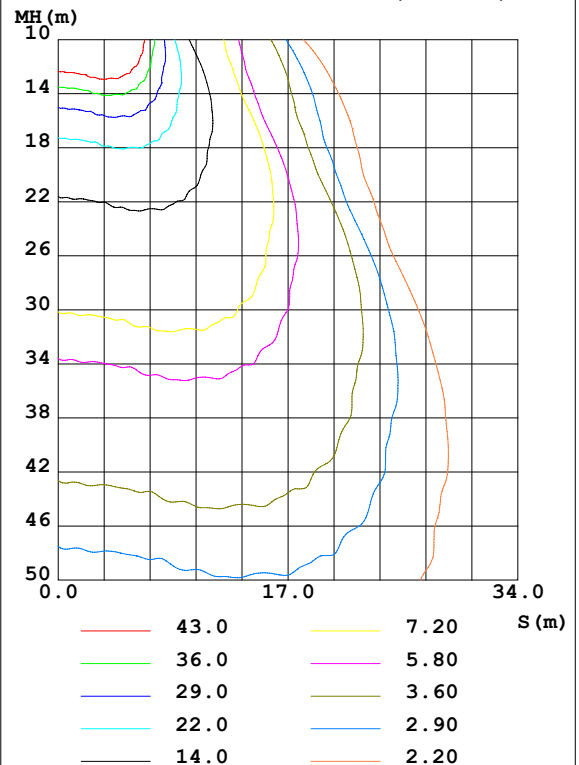
Test:U:220.1V I:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.26 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	8645	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.38
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	17931	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	17930.8	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	1.30

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	7313	7231	7145	7231	7313	7231	7145	7231	0- 10	655.2	655.2	3.65,3.65
20	8423	8484	8453	8484	8423	8484	8453	8484	10- 20	2251	2906	16.2,16.2
30	7842	7896	7978	7896	7842	7896	7978	7896	20- 30	3855	6761	37.7,37.7
40	5321	5458	5816	5458	5321	5458	5816	5458	30- 40	4236	10998	61.3,61.3
50	2909	2913	3009	2913	2909	2913	3009	2913	40- 50	3018	14016	78.2,78.2
60	2110	2170	2286	2170	2110	2170	2286	2170	50- 60	2290	16305	90.9,90.9
70	444.0	445.3	523.9	445.3	444.0	445.3	523.9	445.3	60- 70	1248	17554	97.9,97.9
80	139.5	135.4	141.5	135.4	139.5	135.4	141.5	135.4	70- 80	268.0	17822	99.4,99.4
90	0	0	0	0	0	0	0	0	80- 90	109.1	17931	100,100
100	0	0	0	0	0	0	0	0	90-100	0	17931	100,100
110	0	0	0	0	0	0	0	0	100-110	0	17931	100,100
120	0	0	0	0	0	0	0	0	110-120	0	17931	100,100
130	0	0	0	0	0	0	0	0	120-130	0	17931	100,100
140	0	0	0	0	0	0	0	0	130-140	0	17931	100,100
150	0	0	0	0	0	0	0	0	140-150	0	17931	100,100
160	0	0	0	0	0	0	0	0	150-160	0	17931	100,100
170	0	0	0	0	0	0	0	0	160-170	0	17931	100,100
180	0	0	0	0	0	0	0	0	170-180	0	17931	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12700 lm

%lum = 70.8%

%lamp = 70.8%

Conical surface Flux(120deg): 16305 lm

%lum = 90.9%

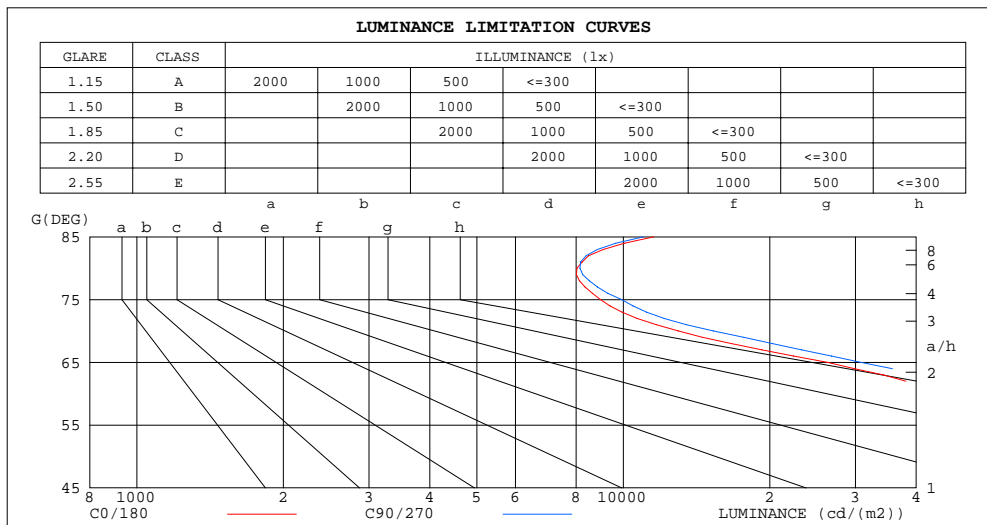
%lamp = 90.9%

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  
 $\gamma$  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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



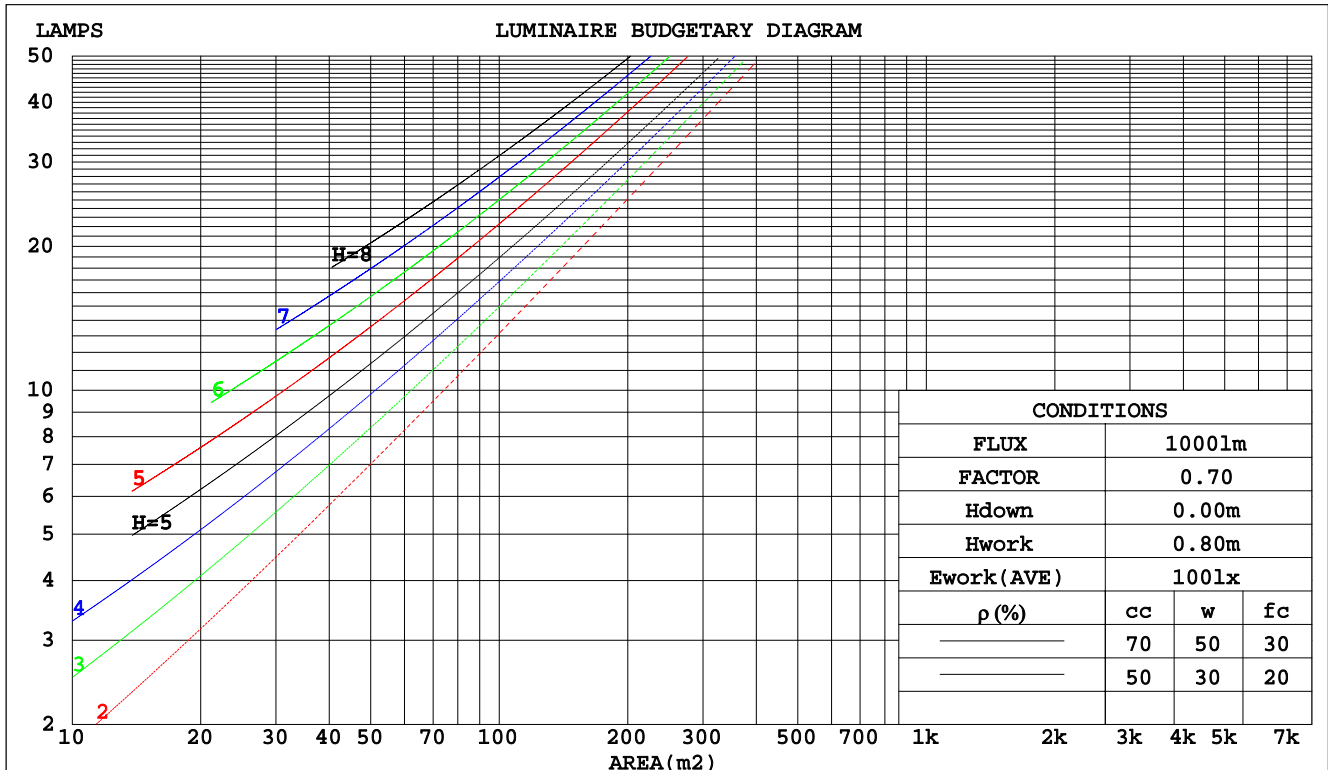
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	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	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.89	.84	.91	.86	.83	.87	.84	.81	.85	.82	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.82	.76	.72	.79	.74	.70	.77	.73	.69	.67
4.0	.77	.70	.64	.76	.69	.63	.74	.68	.63	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.53	.48	.47
7.0	.58	.50	.45	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.48	.44	.42
8.0	.53	.46	.40	.53	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.39	.38
9.0	.49	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.37	.33	.31



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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	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	.247	.141	.045	.240	.137	.044	.227	.130	.042	.215	.124	.040	.204	.118	.038	
2.0	.240	.131	.040	.234	.129	.040	.223	.124	.038	.212	.119	.037	.203	.115	.036	
3.0	.228	.121	.036	.223	.119	.036	.213	.115	.035	.204	.112	.034	.195	.108	.033	
4.0	.215	.112	.033	.210	.110	.033	.202	.107	.032	.194	.104	.031	.186	.101	.031	
5.0	.202	.103	.030	.198	.102	.030	.191	.099	.029	.183	.097	.029	.177	.094	.028	
6.0	.191	.096	.027	.187	.094	.027	.180	.092	.027	.174	.090	.027	.168	.088	.026	
7.0	.180	.089	.025	.176	.088	.025	.170	.086	.025	.165	.084	.025	.159	.083	.024	
8.0	.170	.083	.023	.167	.082	.023	.161	.081	.023	.156	.079	.023	.151	.078	.023	
9.0	.160	.078	.022	.158	.077	.022	.153	.076	.021	.148	.074	.021	.144	.073	.021	
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.020	

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	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.080	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.063	.127	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.084	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-120D-PC-ALL					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	15.4	16.8	15.7	16.9	17.1	15.9	17.2	16.1	17.4	17.6
3H	15.6	16.8	15.9	17.1	17.3	16.1	17.4	16.4	17.6	17.8
4H	15.6	16.7	15.9	17.0	17.2	16.1	17.3	16.4	17.5	17.8
6H	15.5	16.6	15.9	16.9	17.1	16.1	17.2	16.4	17.4	17.7
8H	15.5	16.6	15.8	16.8	17.1	16.0	17.1	16.4	17.4	17.6
12H	15.5	16.5	15.8	16.8	17.1	16.0	17.0	16.4	17.3	17.6
4H 2H	15.7	16.9	16.0	17.1	17.3	16.1	17.2	16.4	17.5	17.7
3H	15.9	16.9	16.3	17.2	17.5	16.4	17.4	16.7	17.7	18.0
4H	15.9	16.8	16.3	17.1	17.5	16.4	17.3	16.7	17.6	17.9
6H	15.9	16.7	16.3	17.0	17.4	16.4	17.2	16.8	17.5	17.9
8H	15.9	16.6	16.3	17.0	17.4	16.4	17.1	16.8	17.4	17.8
12H	15.9	16.6	16.3	17.0	17.4	16.3	17.0	16.8	17.4	17.8
8H 4H	15.8	16.6	16.2	16.9	17.3	16.3	17.0	16.7	17.4	17.8
6H	15.9	16.5	16.3	16.9	17.3	16.3	16.9	16.7	17.3	17.7
8H	15.9	16.4	16.3	16.8	17.3	16.3	16.8	16.8	17.3	17.7
12H	15.9	16.4	16.4	16.8	17.3	16.3	16.8	16.8	17.2	17.7
12H 4H	15.8	16.5	16.2	16.8	17.2	16.3	16.9	16.7	17.3	17.7
6H	15.8	16.4	16.3	16.8	17.2	16.3	16.8	16.7	17.2	17.7
8H	15.9	16.3	16.3	16.8	17.2	16.3	16.8	16.8	17.2	17.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.8 / - 1.0				
1.5H	+ 0.8 / - 1.1					+ 0.8 / - 1.0				
2.0H	+ 0.4 / - 0.9					+ 0.4 / - 1.2				

CIE Pub.117, 17931 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 10.0$ )

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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

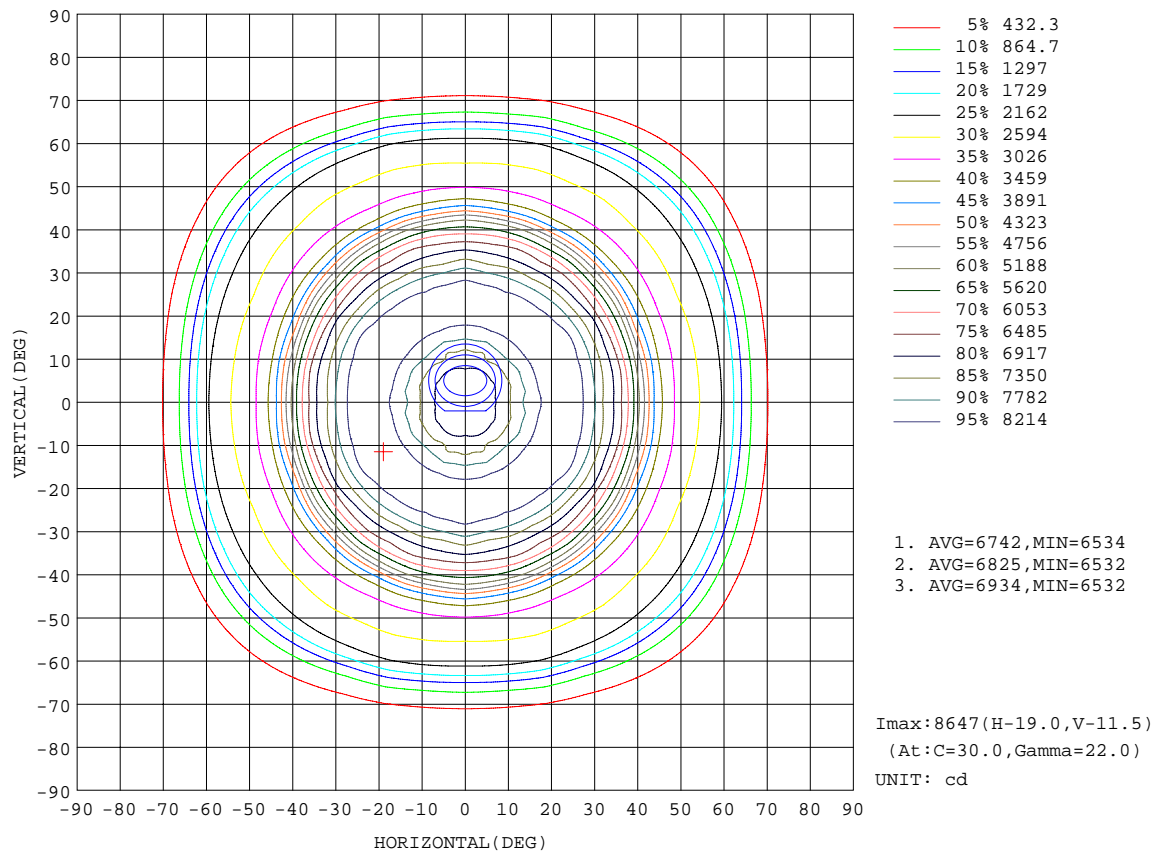
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	57	51	66	57	51	65	56	51	45
0.80	77	67	61	76	67	61	74	66	61	55
1.00	85	76	70	84	75	70	82	76	69	63
1.25	91	83	77	90	82	77	87	81	76	70
1.50	95	88	82	94	87	82	91	85	81	74
2.00	101	94	89	99	93	89	96	91	87	80
2.50	104	98	93	102	97	92	99	94	90	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	90
5.00	111	108	105	109	106	103	105	102	100	92
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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



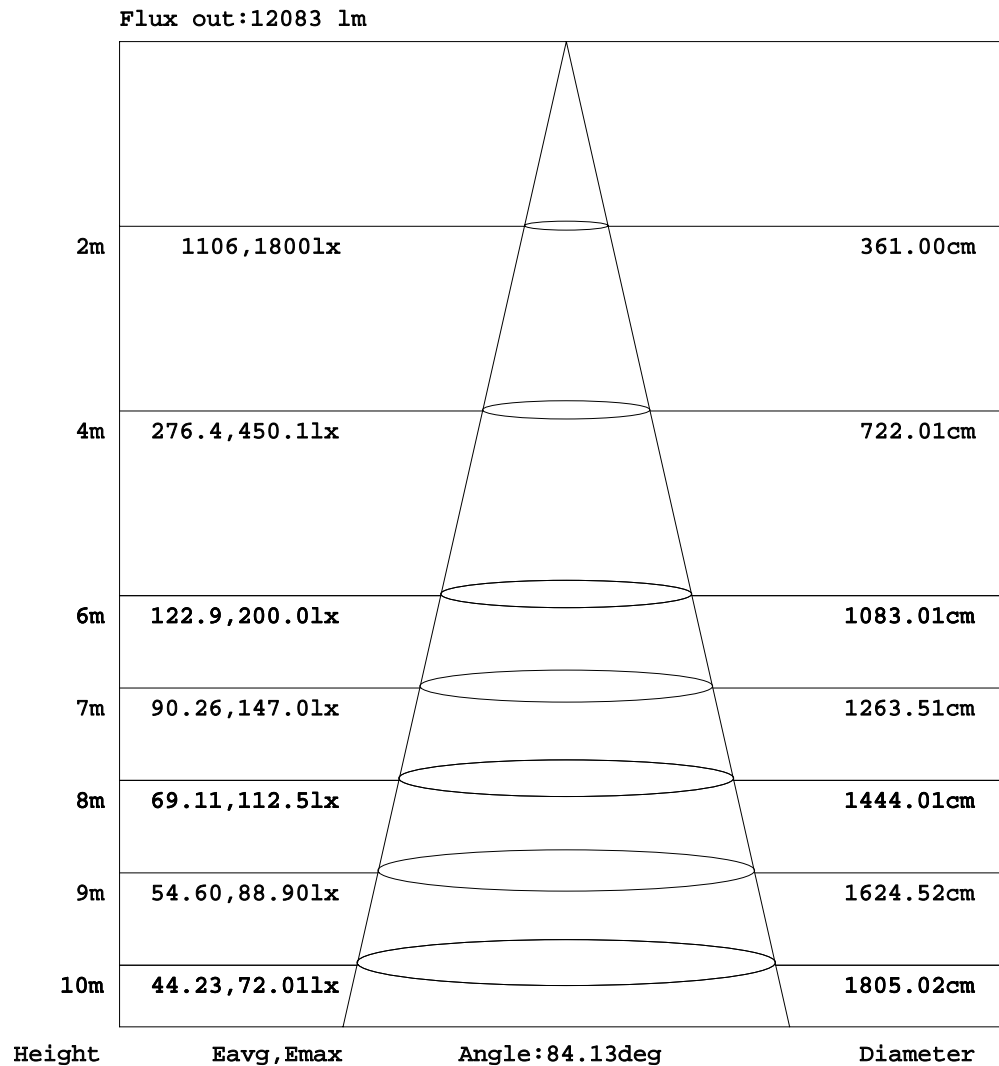
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-02

$\gamma$  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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



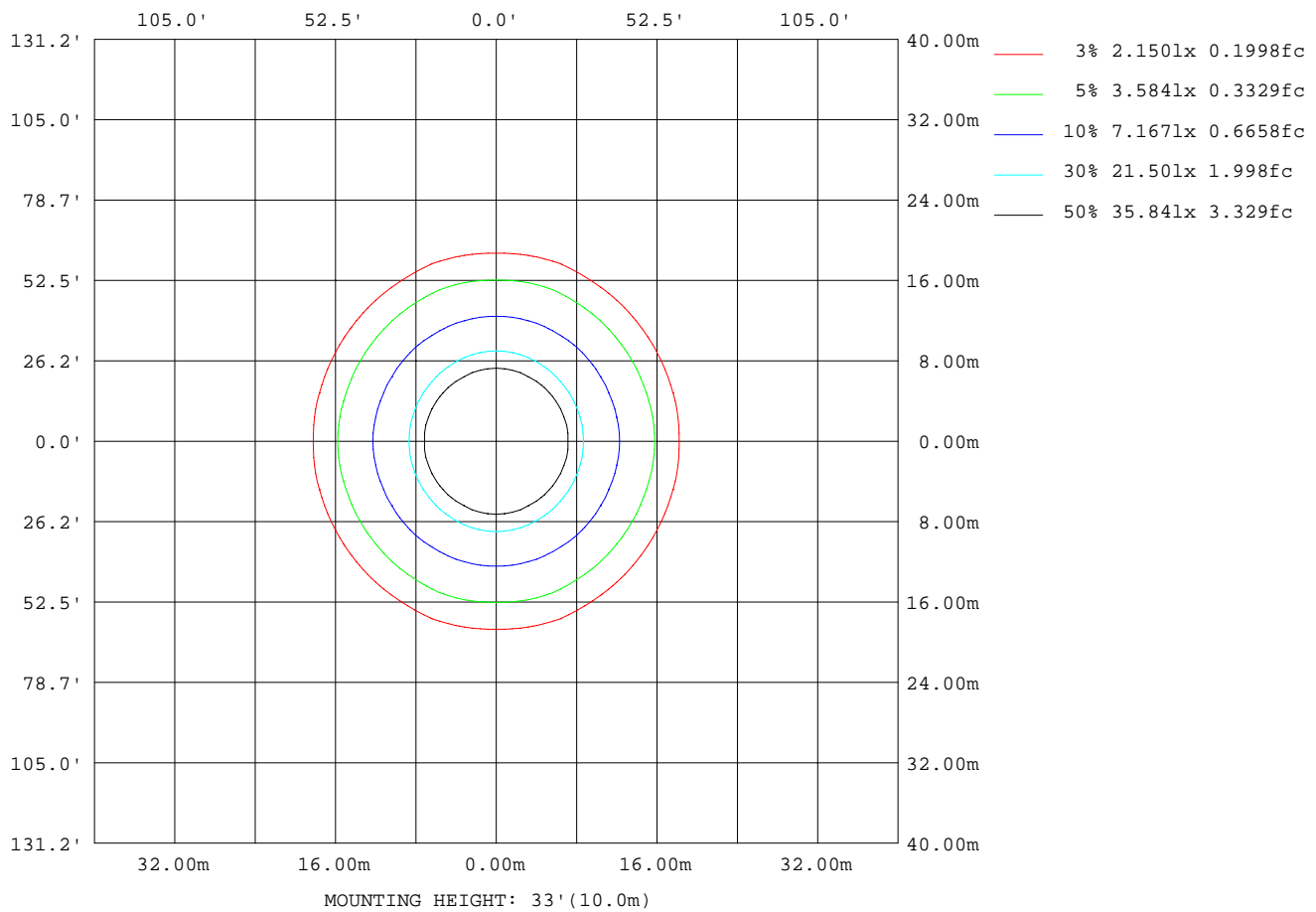
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

$\gamma$  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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D-PC-ALL	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:2018-01-02

$\gamma$  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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

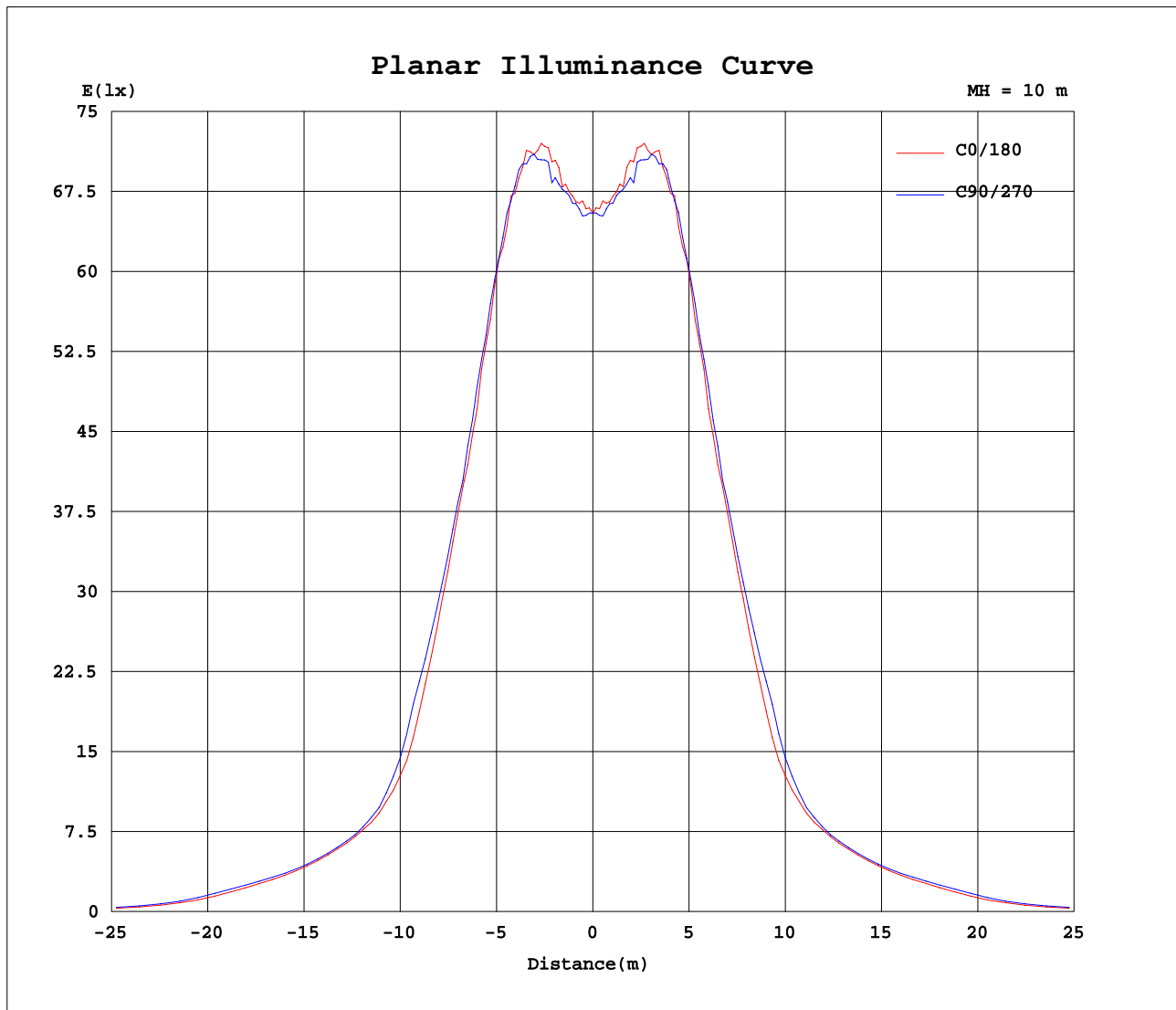
AvgL	cd/m2
L_0~180 (65) av	26292
L_0~180 (75) av	8988
L_0~180 (85) av	11567
L_90~270 (65) av	30768
L_90~270 (75) av	9926
L_90~270 (85) av	11006
L_45 (65) av	27990
L_45 (75) av	8847
L_45 (85) av	11100

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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	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	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551
5	6738	6713	6744	6643	6681	6666	6697	6705	6721	6717	6721	6705	6697	6666	6681	6643	6744	6713	6738
10	7313	7186	7304	7304	7219	7242	7170	7185	7163	7145	7163	7185	7170	7242	7219	7304	7304	7186	7313
15	8000	7863	7928	7920	7970	7903	7930	7787	7833	7824	7833	7787	7930	7903	7970	7920	7928	7863	8000
20	8423	8459	8431	8524	8547	8420	8384	8431	8513	8453	8513	8431	8384	8420	8547	8524	8431	8459	8423
25	8381	8429	8463	8528	8442	8395	8380	8408	8536	8495	8536	8408	8380	8395	8442	8528	8463	8429	8381
30	7842	7800	7897	7904	7949	7844	7850	7825	7838	7978	7838	7825	7850	7844	7949	7904	7897	7800	7842
35	6801	6832	6871	6893	6762	6774	6780	6841	6877	6989	6877	6841	6780	6774	6762	6893	6871	6832	6801
40	5321	5281	5333	5395	5378	5538	5533	5682	5770	5816	5770	5682	5533	5538	5378	5395	5333	5281	5321
45	3611	3587	3585	3595	3638	3723	3770	3878	3971	4082	3971	3878	3770	3723	3638	3595	3585	3587	3611
50	2909	2884	2857	2865	2899	2927	2913	2965	2998	3009	2998	2965	2913	2927	2899	2865	2857	2884	2909
55	2544	2516	2491	2510	2515	2573	2595	2646	2643	2626	2643	2646	2595	2573	2515	2510	2491	2516	2544
60	2110	2097	2109	2113	2147	2192	2234	2302	2300	2286	2300	2302	2234	2192	2147	2113	2109	2097	2110
65	1111	1129	1144	1137	1172	1194	1228	1337	1308	1300	1308	1337	1228	1194	1172	1137	1144	1129	1111
70	444	443	422	424	438	452	466	509	505	524	505	509	466	452	438	424	422	443	444
75	233	230	226	227	227	232	234	247	250	257	250	247	234	232	227	227	226	230	233
80	140	139	137	137	135	136	135	139	140	142	140	139	135	136	135	137	137	139	140
85	101	101	99.9	98.8	97.0	96.5	95.6	95.4	95.9	95.9	95.9	95.4	95.6	96.5	97.0	98.8	99.9	101	101
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:0.7330A P:149.1W PF:0.9584 Freq:49.99Hz Lamp Flux:17930.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D-PC-ALL	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	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	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551	6551		
5	6713	6744	6643	6681	6666	6697	6705	6721	6717	6721	6705	6697	6666	6681	6643	6744	6713		
10	7186	7304	7304	7219	7242	7170	7185	7163	7145	7163	7185	7170	7242	7219	7304	7304	7186		
15	7863	7928	7920	7970	7903	7930	7787	7833	7824	7833	7787	7930	7903	7970	7920	7928	7863		
20	8459	8431	8524	8547	8420	8384	8431	8513	8453	8513	8431	8384	8420	8547	8524	8431	8459		
25	8429	8463	8528	8442	8395	8380	8408	8536	8495	8536	8408	8380	8395	8442	8528	8463	8429		
30	7800	7897	7904	7949	7844	7850	7825	7838	7978	7838	7825	7850	7844	7949	7904	7897	7800		
35	6832	6871	6893	6762	6774	6780	6841	6877	6989	6877	6841	6780	6774	6762	6893	6871	6832		
40	5281	5333	5395	5378	5538	5533	5682	5770	5816	5770	5682	5533	5538	5378	5395	5333	5281		
45	3587	3585	3595	3638	3723	3770	3878	3971	4082	3971	3878	3770	3723	3638	3595	3585	3587		
50	2884	2857	2865	2899	2927	2913	2965	2998	3009	2998	2965	2913	2927	2899	2865	2857	2884		
55	2516	2491	2510	2515	2573	2595	2646	2643	2626	2643	2646	2595	2573	2515	2510	2491	2516		
60	2097	2109	2113	2147	2192	2234	2302	2300	2286	2300	2302	2234	2192	2147	2113	2109	2097		
65	1129	1144	1137	1172	1194	1228	1337	1308	1300	1308	1337	1228	1194	1172	1137	1144	1129		
70	443	422	424	438	452	466	509	505	524	505	509	466	452	438	424	422	443		
75	230	226	227	227	232	234	247	250	257	250	247	234	232	227	227	226	230		
80	139	137	137	135	136	135	139	140	142	140	139	135	136	135	137	137	139		
85	101	99.9	98.8	97.0	96.5	95.6	95.4	95.9	95.9	95.9	95.4	95.6	96.5	97.0	98.8	99.9	101		
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

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: