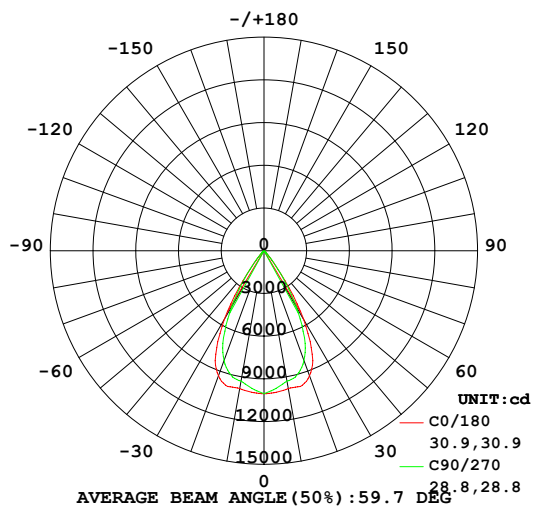


## LUMINAIRE PHOTOMETRIC TEST REPORT

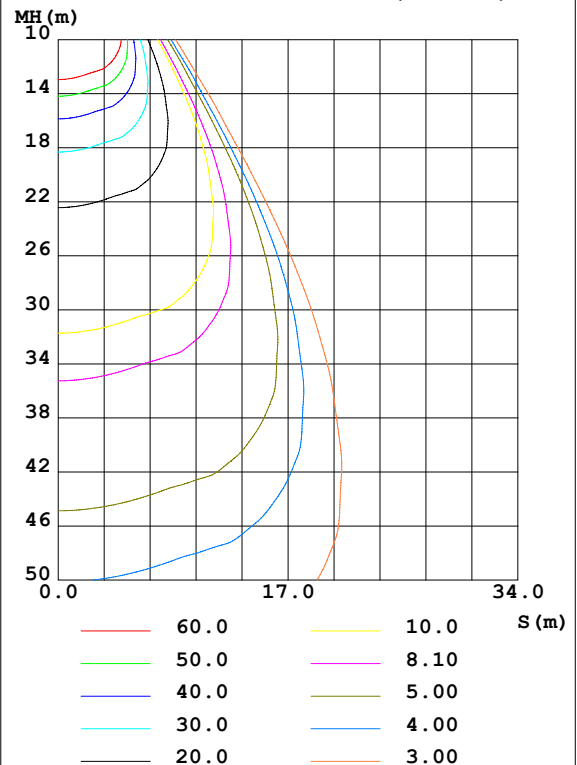
Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.81 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	10039	S/MH (C0/180)	0.90
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	0.86
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	8642.7	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	8642.75	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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

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

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	983.5	948.2	929.3	948.2	983.5	948.2	929.3	948.2	0- 10	925.2	925.2	10.7,10.7
20	934.7	837.1	820.4	837.1	934.7	837.1	820.4	837.1	10- 20	2593	3518	40.7,40.7
30	557.9	469.6	452.4	469.6	557.9	469.6	452.4	469.6	20- 30	3157	6675	77.2,77.2
40	85.40	85.97	89.66	85.97	85.40	85.97	89.66	85.97	30- 40	1551	8226	95.2,95.2
50	10.01	10.74	10.63	10.74	10.01	10.74	10.63	10.74	40- 50	253.9	8480	98.1,98.1
60	6.186	6.447	6.122	6.447	6.186	6.447	6.122	6.447	50- 60	69.64	8550	98.9,98.9
70	4.058	4.209	3.944	4.209	4.058	4.209	3.944	4.209	60- 70	52.41	8602	99.5,99.5
80	1.645	1.578	1.675	1.578	1.645	1.578	1.675	1.578	70- 80	29.86	8632	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	10.78	8643	100,100
100	0	0	0	0	0	0	0	0	90-100	0	8643	100,100
110	0	0	0	0	0	0	0	0	100-110	0	8643	100,100
120	0	0	0	0	0	0	0	0	110-120	0	8643	100,100
130	0	0	0	0	0	0	0	0	120-130	0	8643	100,100
140	0	0	0	0	0	0	0	0	130-140	0	8643	100,100
150	0	0	0	0	0	0	0	0	140-150	0	8643	100,100
160	0	0	0	0	0	0	0	0	150-160	0	8643	100,100
170	0	0	0	0	0	0	0	0	160-170	0	8643	100,100
180	0	0	0	0	0	0	0	0	170-180	0	8643	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 8415.7 lm

%lum = 97.4%

%lamp = 97.4%

Conical surface Flux(120deg): 8549.7 lm

%lum = 98.9%

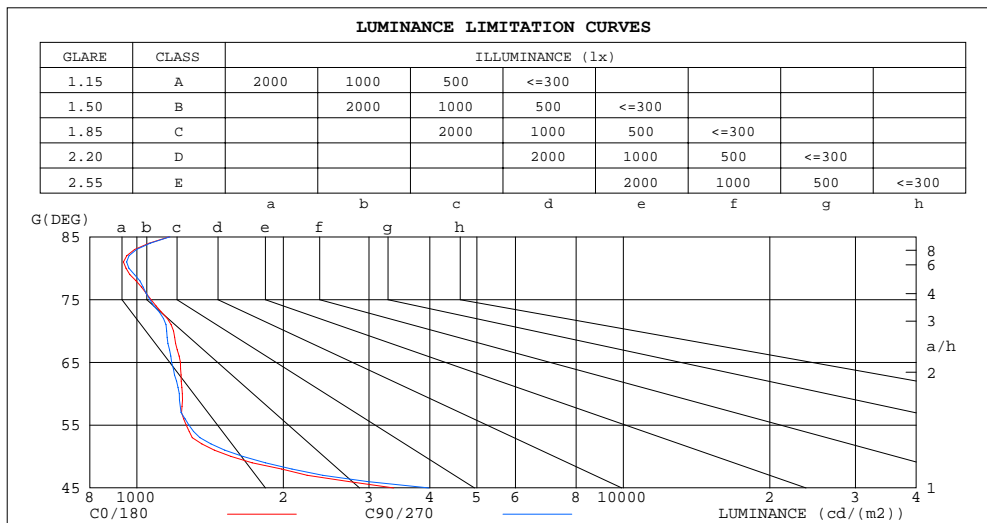
%lamp = 98.9%

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

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

## LUMINANCE LIMITATION CURVES

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1166	1169
80	950	963
75	1069	1063
70	1190	1151
65	1229	1179
60	1241	1222
55	1263	1279
50	1561	1651
45	3372	3984

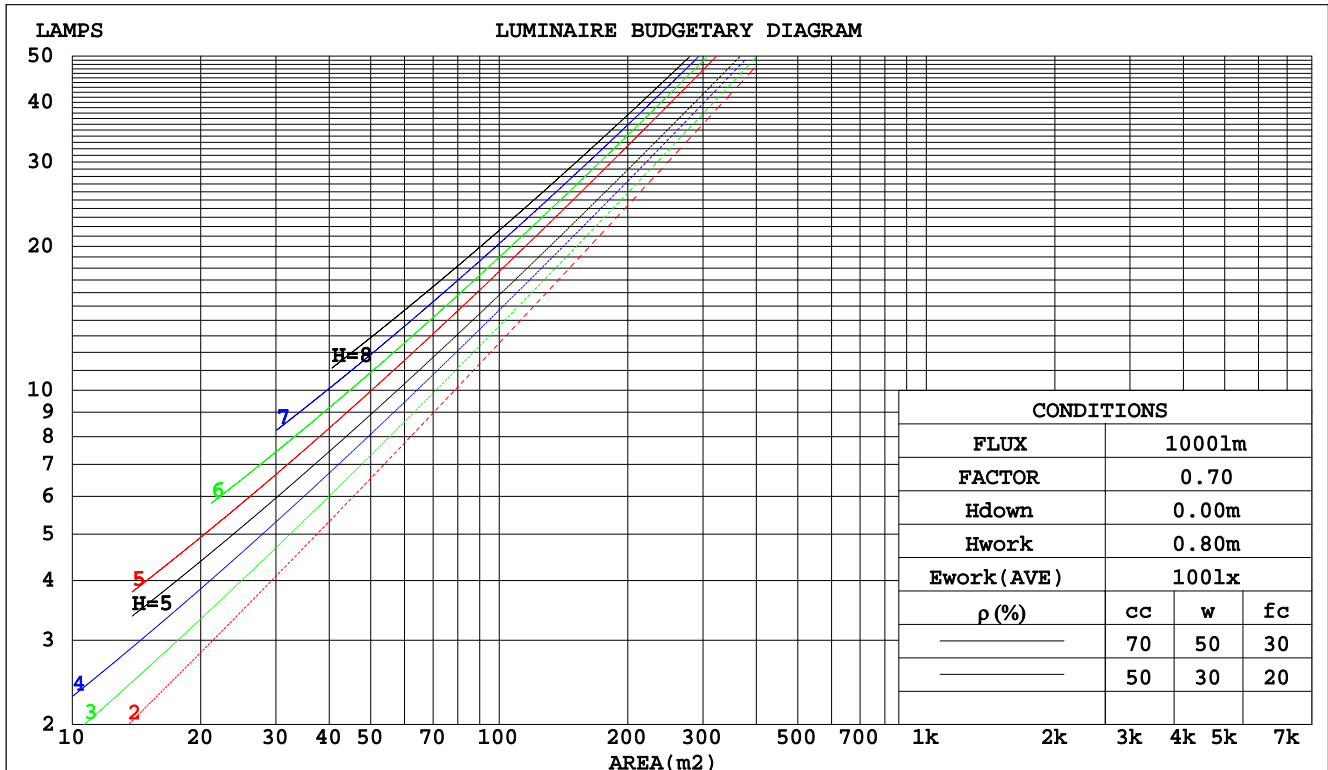
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  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:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	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	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.96	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.85	.83	.82
4.0	.91	.85	.81	.89	.85	.81	.87	.83	.80	.85	.82	.79	.84	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.69	.67
7.0	.76	.70	.66	.75	.69	.65	.74	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.71	.66	.62	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.58	.55	.64	.58	.55	.63	.58	.54	.62	.58	.54	.61	.57	.54	.53



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

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

## WEC AND CCEC

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.176	.100	.032	.169	.097	.031	.157	.090	.029	.145	.084	.027	.134	.078	.025		
2.0	.167	.092	.028	.162	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024		
3.0	.159	.085	.025	.154	.083	.025	.145	.079	.024	.137	.075	.023	.129	.072	.022		
4.0	.151	.079	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021		
5.0	.144	.073	.021	.140	.072	.021	.134	.070	.020	.127	.067	.020	.121	.065	.020		
6.0	.137	.069	.020	.134	.068	.020	.128	.066	.019	.123	.064	.019	.118	.062	.018		
7.0	.131	.065	.018	.129	.064	.018	.123	.062	.018	.118	.061	.018	.114	.059	.017		
8.0	.126	.062	.017	.123	.061	.017	.119	.059	.017	.114	.058	.017	.110	.057	.016		
9.0	.121	.058	.016	.119	.058	.016	.114	.057	.016	.110	.055	.016	.107	.054	.016		
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.053	.015	.103	.052	.015		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.054	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

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

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

## UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-60WoH-3030-60D-PC					DIM.: $\phi$ 0.248*0.138M			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi$ 0.16M			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	7.6	8.6	7.9	8.7	8.9	6.8	7.7	7.0	7.9	8.0
3H	7.6	8.4	7.8	8.6	8.8	6.7	7.6	7.0	7.7	8.0
4H	7.5	8.3	7.8	8.5	8.8	6.7	7.5	6.9	7.7	7.9
6H	7.5	8.2	7.8	8.5	8.7	6.6	7.4	6.9	7.6	7.9
8H	7.4	8.2	7.7	8.4	8.7	6.6	7.3	6.9	7.6	7.8
12H	7.4	8.1	7.7	8.4	8.6	6.6	7.3	6.9	7.5	7.8
4H 2H	7.4	8.2	7.7	8.4	8.7	6.6	7.4	6.8	7.6	7.8
3H	7.4	8.1	7.7	8.3	8.6	6.5	7.2	6.8	7.5	7.8
4H	7.3	8.0	7.7	8.3	8.6	6.5	7.1	6.9	7.4	7.8
6H	7.3	7.9	7.7	8.2	8.5	6.5	7.1	6.9	7.4	7.7
8H	7.3	7.8	7.7	8.1	8.5	6.5	7.0	6.9	7.4	7.7
12H	7.3	7.7	7.7	8.1	8.5	6.5	6.9	6.9	7.3	7.7
8H 4H	7.2	7.7	7.6	8.1	8.5	6.4	6.9	6.8	7.3	7.7
6H	7.2	7.6	7.6	8.0	8.4	6.4	6.8	6.9	7.2	7.7
8H	7.2	7.6	7.7	8.0	8.4	6.4	6.8	6.9	7.2	7.7
12H	7.2	7.5	7.7	8.0	8.4	6.4	6.8	6.9	7.2	7.7
12H 4H	7.2	7.7	7.6	8.0	8.4	6.4	6.8	6.8	7.2	7.6
6H	7.2	7.5	7.6	8.0	8.4	6.4	6.8	6.8	7.2	7.6
8H	7.2	7.5	7.6	7.9	8.4	6.4	6.7	6.9	7.2	7.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / - 5.1					+ 3.5 / - 5.1				
1.5H	+ 6.0 / - 5.0					+ 5.9 / - 4.9				
2.0H	+ 2.3 / - 0.7					+ 3.2 / - 0.8				

CIE Pub.117, 8643 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.5$ )

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

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

### UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

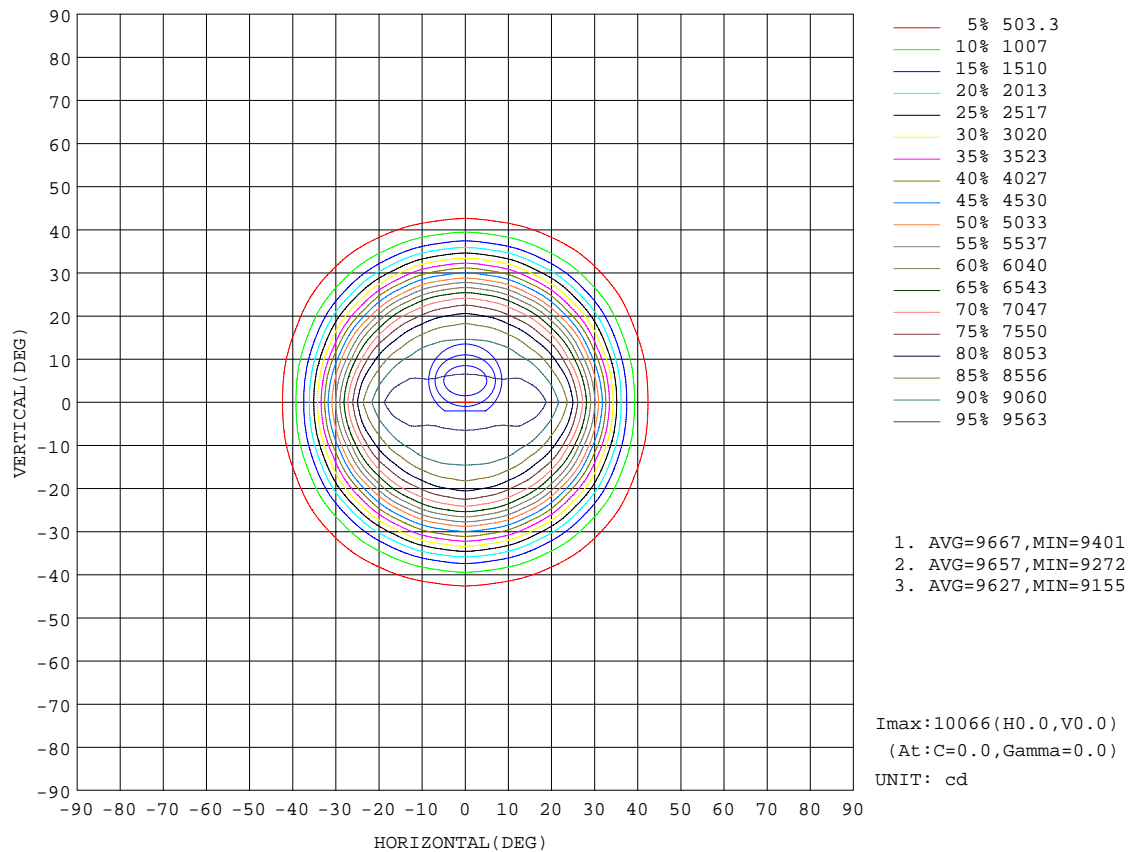
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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

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

## ISOCANDELA DIAGRAM

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:



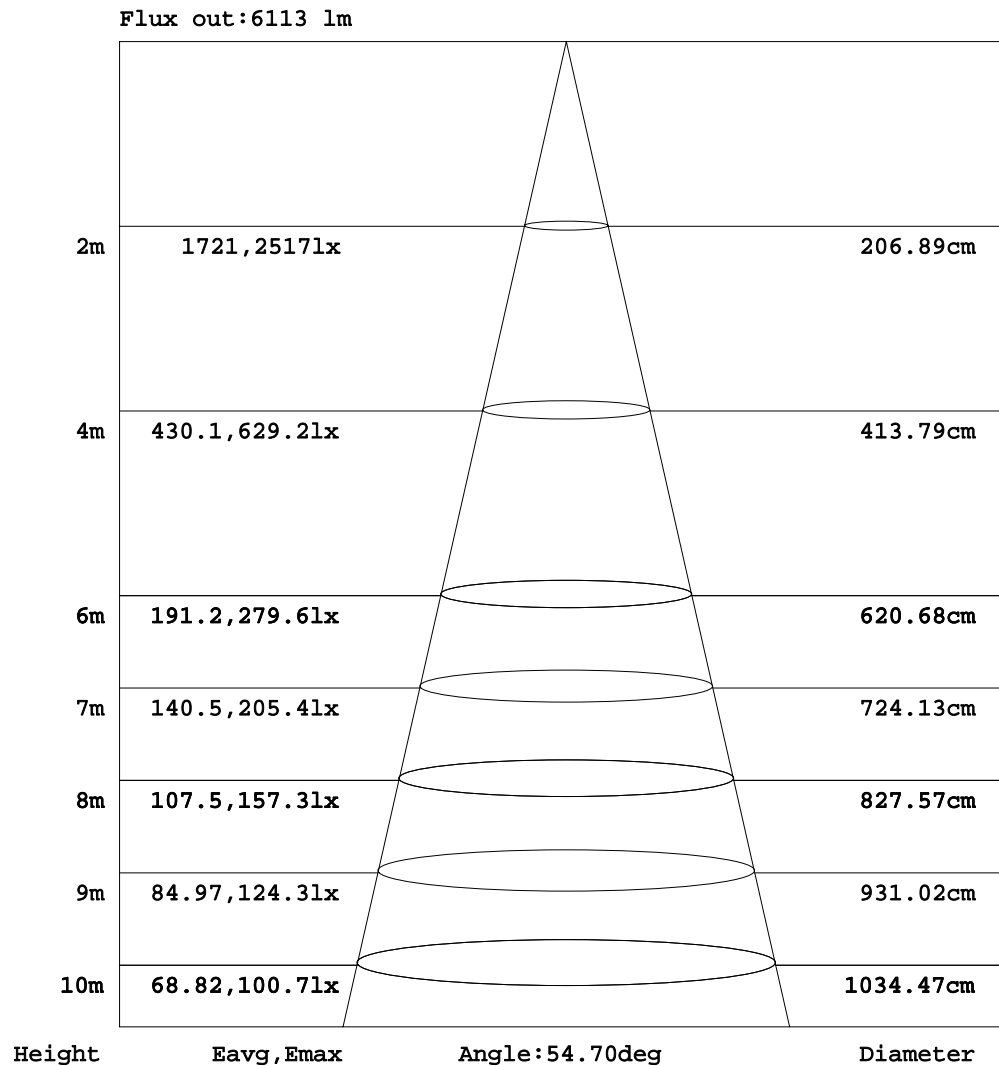
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

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



### AAI Figure

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



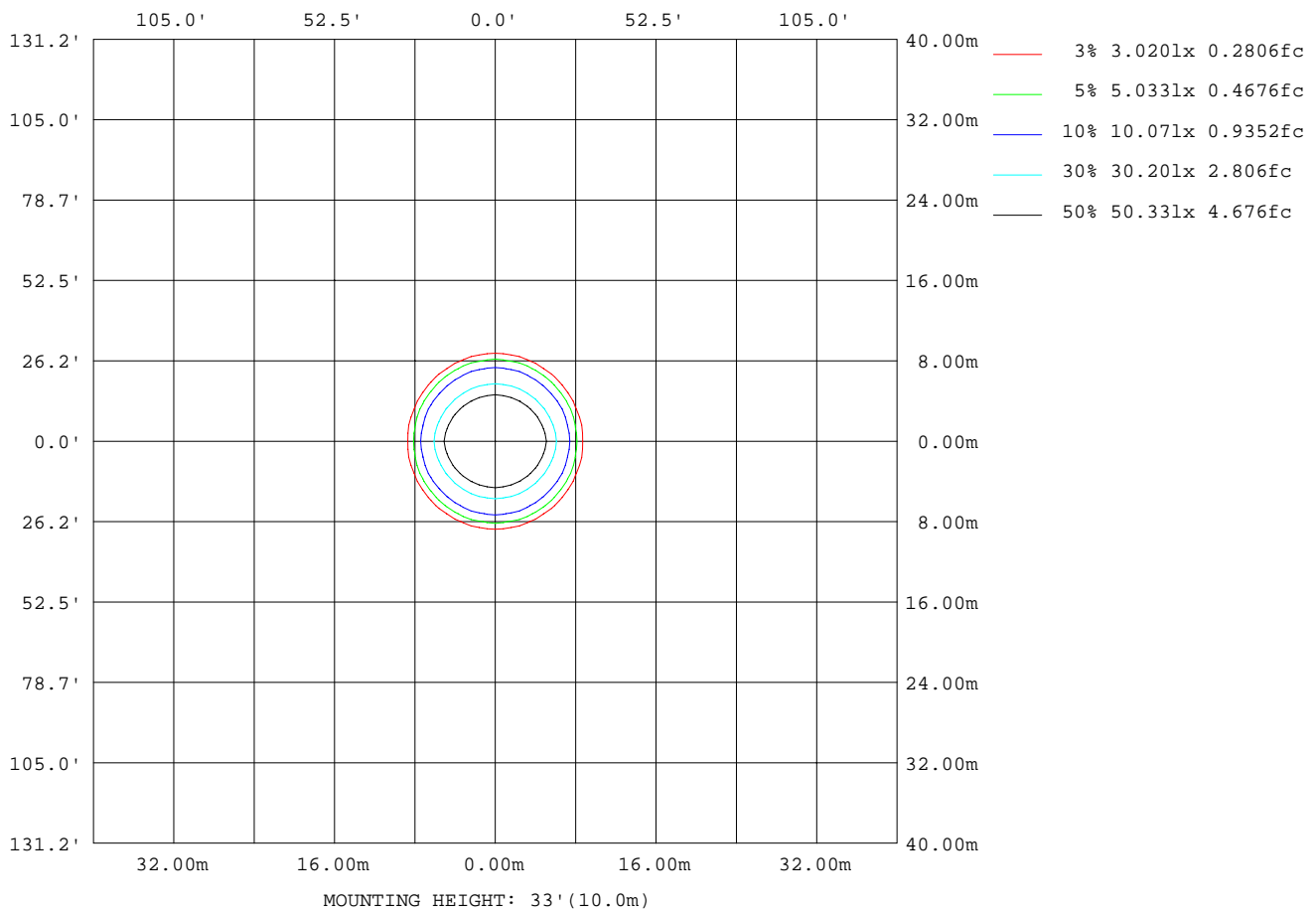
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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

### ISOLUX DIAGRAM

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



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

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

## LED Avg.L Report

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

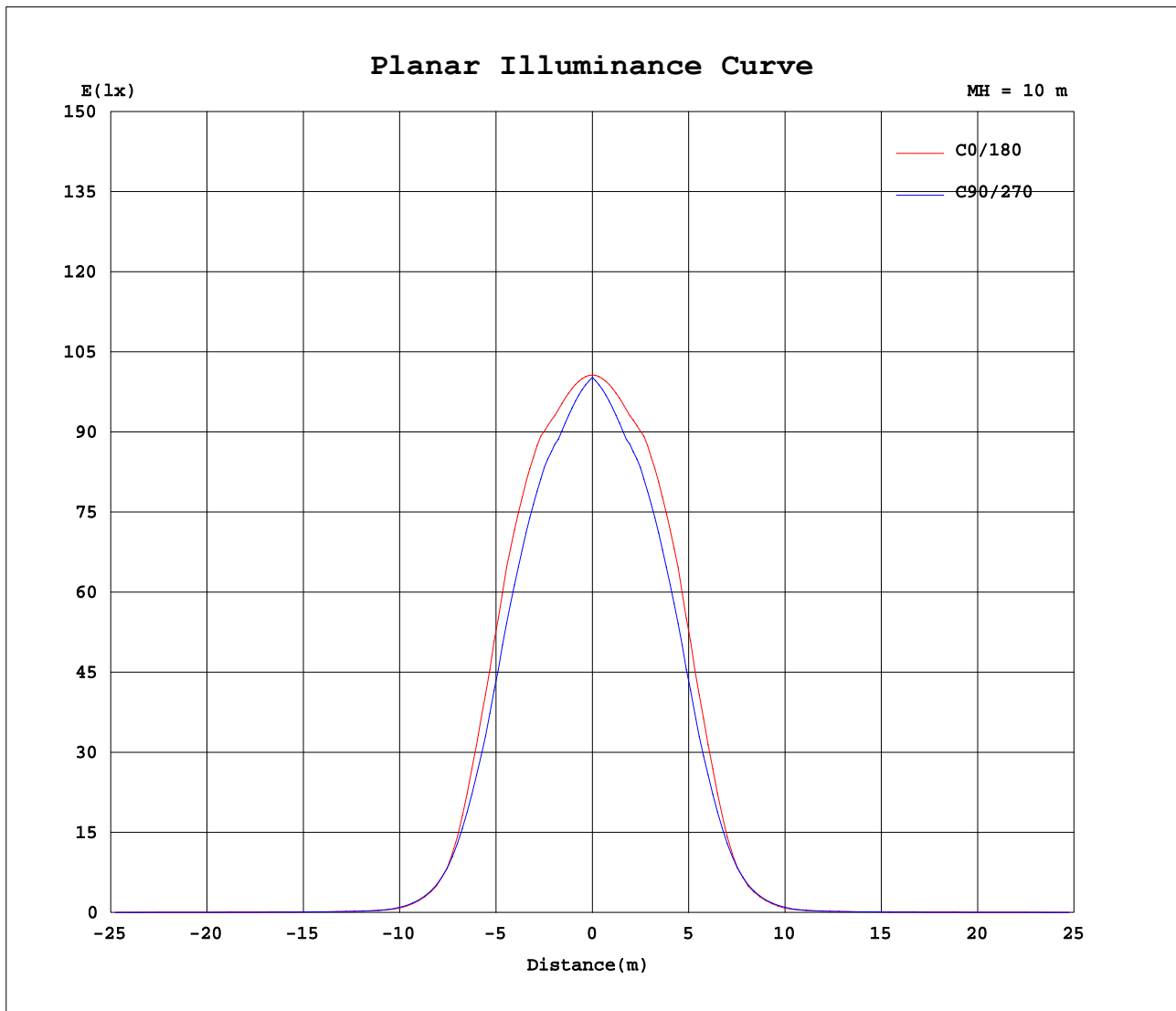
AvgL	cd/m2
L_0~180 (65) av	1226
L_0~180 (75) av	1066
L_0~180 (85) av	1163
L_90~270 (65) av	1181
L_90~270 (75) av	1065
L_90~270 (85) av	1171
L_45 (65) av	1270
L_45 (75) av	1068
L_45 (85) av	1092

Standard: GB/T 29293-2012

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

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

## Planar Illuminance Curve



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

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

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004
5	998	992	987	983	979	976	973	971	970	970	970	971	973	976	979	983	987	992	998
10	983	974	964	957	951	945	941	935	932	929	932	935	941	945	951	957	964	974	983
15	987	969	951	938	925	917	911	908	903	902	903	908	911	917	925	938	951	969	987
20	935	913	885	865	843	831	822	820	817	820	817	820	822	831	843	865	885	913	935
25	802	779	746	729	705	692	678	676	669	674	669	676	678	692	705	729	746	779	802
30	558	540	513	497	474	465	455	455	449	452	449	455	455	465	474	497	513	540	558
35	257	256	246	246	236	236	227	232	227	235	227	232	227	236	236	246	246	256	257
40	85.4	87.5	83.1	86.5	85.0	86.9	85.3	88.2	85.7	89.7	85.7	88.2	85.3	86.9	85.0	86.5	83.1	87.5	85.4
45	23.8	26.4	25.0	27.0	24.9	26.9	24.8	27.2	25.6	28.2	25.6	27.2	24.8	26.9	24.9	27.0	25.0	26.4	23.8
50	10.0	10.5	10.5	10.9	10.7	10.8	10.3	10.5	10.4	10.6	10.4	10.5	10.3	10.8	10.7	10.9	10.5	10.5	10.0
55	7.23	7.60	7.83	7.90	7.69	7.46	7.29	7.35	7.35	7.35	7.35	7.35	7.29	7.46	7.69	7.90	7.83	7.60	7.23
60	6.19	6.50	6.70	6.65	6.52	6.37	6.29	6.26	6.19	6.12	6.19	6.26	6.29	6.37	6.52	6.65	6.70	6.50	6.19
65	5.18	5.40	5.53	5.48	5.40	5.34	5.31	5.19	5.11	4.99	5.11	5.19	5.31	5.34	5.40	5.48	5.53	5.40	5.18
70	4.06	4.21	4.29	4.22	4.20	4.21	4.14	4.12	4.02	3.94	4.02	4.12	4.14	4.21	4.20	4.22	4.29	4.21	4.06
75	2.76	2.81	2.78	2.78	2.74	2.78	2.74	2.77	2.74	2.76	2.74	2.77	2.74	2.78	2.74	2.78	2.78	2.81	2.76
80	1.65	1.66	1.60	1.61	1.58	1.57	1.58	1.62	1.62	1.67	1.62	1.62	1.58	1.57	1.58	1.61	1.60	1.66	1.65
85	1.01	1.01	0.99	0.98	0.95	0.95	0.96	1.00	1.01	1.02	1.01	1.00	0.96	0.95	0.95	0.98	0.99	1.01	1.01
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

$\gamma$  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:220.2V I:0.2949A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:8642.75x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004		
5	992	987	983	979	976	973	971	970	970	970	971	973	976	979	983	987	992		
10	974	964	957	951	945	941	935	932	929	932	935	941	945	951	957	964	974		
15	969	951	938	925	917	911	908	903	902	903	908	911	917	925	938	951	969		
20	913	885	865	843	831	822	820	817	820	817	820	822	831	843	865	885	913		
25	779	746	729	705	692	678	676	669	674	669	676	678	692	705	729	746	779		
30	540	513	497	474	465	455	455	449	452	449	455	455	465	474	497	513	540		
35	256	246	246	236	236	227	232	227	235	227	232	227	236	236	246	246	256		
40	87.5	83.1	86.5	85.0	86.9	85.3	88.2	85.7	89.7	85.7	88.2	85.3	86.9	85.0	86.5	83.1	87.5		
45	26.4	25.0	27.0	24.9	26.9	24.8	27.2	25.6	28.2	25.6	27.2	24.8	26.9	24.9	27.0	25.0	26.4		
50	10.5	10.5	10.9	10.7	10.8	10.3	10.5	10.4	10.6	10.4	10.5	10.3	10.8	10.7	10.9	10.5	10.5		
55	7.60	7.83	7.90	7.69	7.46	7.29	7.35	7.35	7.35	7.35	7.35	7.29	7.46	7.69	7.90	7.83	7.60		
60	6.50	6.70	6.65	6.52	6.37	6.29	6.26	6.19	6.12	6.19	6.26	6.29	6.37	6.52	6.65	6.70	6.50		
65	5.40	5.53	5.48	5.40	5.34	5.31	5.19	5.11	4.99	5.11	5.19	5.31	5.34	5.40	5.48	5.53	5.40		
70	4.21	4.29	4.22	4.20	4.21	4.14	4.12	4.02	3.94	4.02	4.12	4.14	4.21	4.20	4.22	4.29	4.21		
75	2.81	2.78	2.78	2.74	2.78	2.74	2.77	2.74	2.76	2.74	2.77	2.74	2.78	2.74	2.78	2.78	2.81		
80	1.66	1.60	1.61	1.58	1.57	1.58	1.62	1.62	1.67	1.62	1.62	1.58	1.57	1.58	1.61	1.60	1.66		
85	1.01	0.99	0.98	0.95	0.95	0.96	1.00	1.01	1.02	1.01	1.00	0.96	0.95	0.95	0.98	0.99	1.01		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

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

$\gamma$  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: