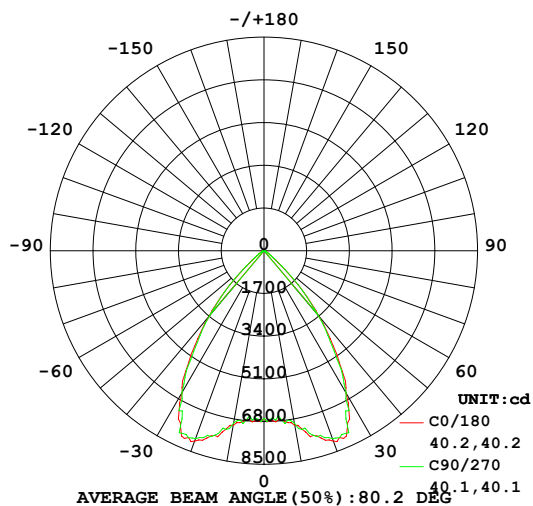


## LUMINAIRE PHOTOMETRIC TEST REPORT

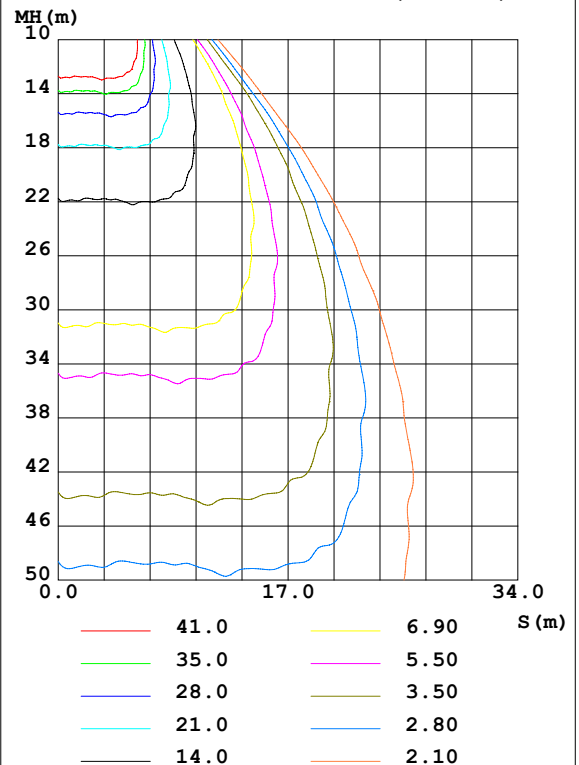
Test:U:220.2V I:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.26 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	8189	S/MH (C0/180)	1.16
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	11249	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	11248.5	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.10

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	7052	6969	6961	6969	7052	6969	6961	6969	0- 10	650.9	650.9	5.79,5.79
20	8060	8055	7959	8055	8060	8055	7959	8055	10- 20	2164	2815	25,25
30	6508	6307	6534	6307	6508	6307	6534	6307	20- 30	3476	6291	55.9,55.9
40	3376	3133	3359	3133	3376	3133	3359	3133	30- 40	2999	9290	82.6,82.6
50	747.4	707.6	771.4	707.6	747.4	707.6	771.4	707.6	40- 50	1404	10694	95.1,95.1
60	195.7	182.8	194.4	182.8	195.7	182.8	194.4	182.8	50- 60	324.9	11019	98,98
70	89.27	86.40	89.29	86.40	89.27	86.40	89.29	86.40	60- 70	126.4	11146	99.1,99.1
80	44.46	43.07	45.14	43.07	44.46	43.07	45.14	43.07	70- 80	67.44	11213	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	35.49	11249	100,100
100	0	0	0	0	0	0	0	0	90-100	0	11249	100,100
110	0	0	0	0	0	0	0	0	100-110	0	11249	100,100
120	0	0	0	0	0	0	0	0	110-120	0	11249	100,100
130	0	0	0	0	0	0	0	0	120-130	0	11249	100,100
140	0	0	0	0	0	0	0	0	130-140	0	11249	100,100
150	0	0	0	0	0	0	0	0	140-150	0	11249	100,100
160	0	0	0	0	0	0	0	0	150-160	0	11249	100,100
170	0	0	0	0	0	0	0	0	160-170	0	11249	100,100
180	0	0	0	0	0	0	0	0	170-180	0	11249	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10212 lm

%lum = 90.8%

%lamp = 90.8%

Conical surface Flux(120deg): 11019 lm

%lum = 98.0%

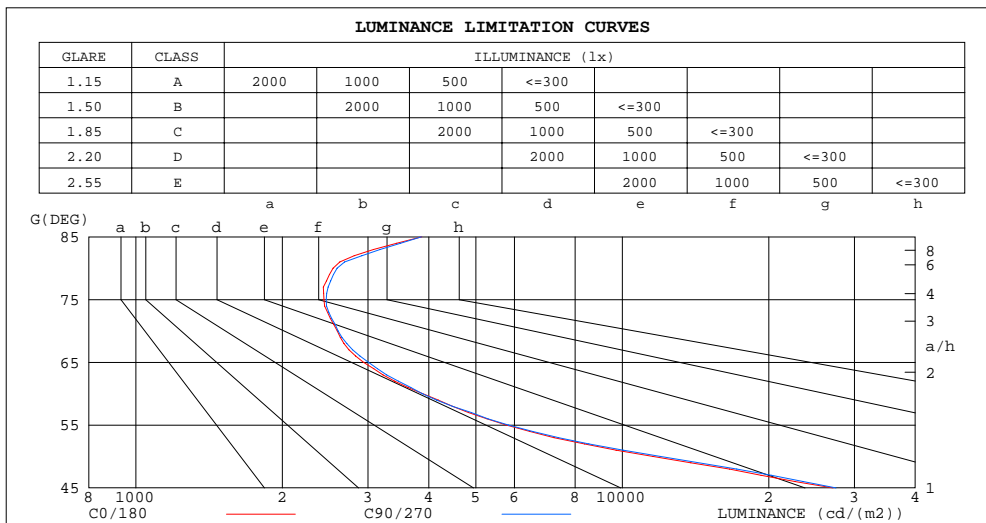
%lamp = 98.0%

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:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-90D-PC-ALL	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	3871	3863
80	2544	2593
75	2435	2461
70	2593	2604
65	2938	3006
60	3888	3878
55	5774	5830
50	11553	11970
45	27123	27504

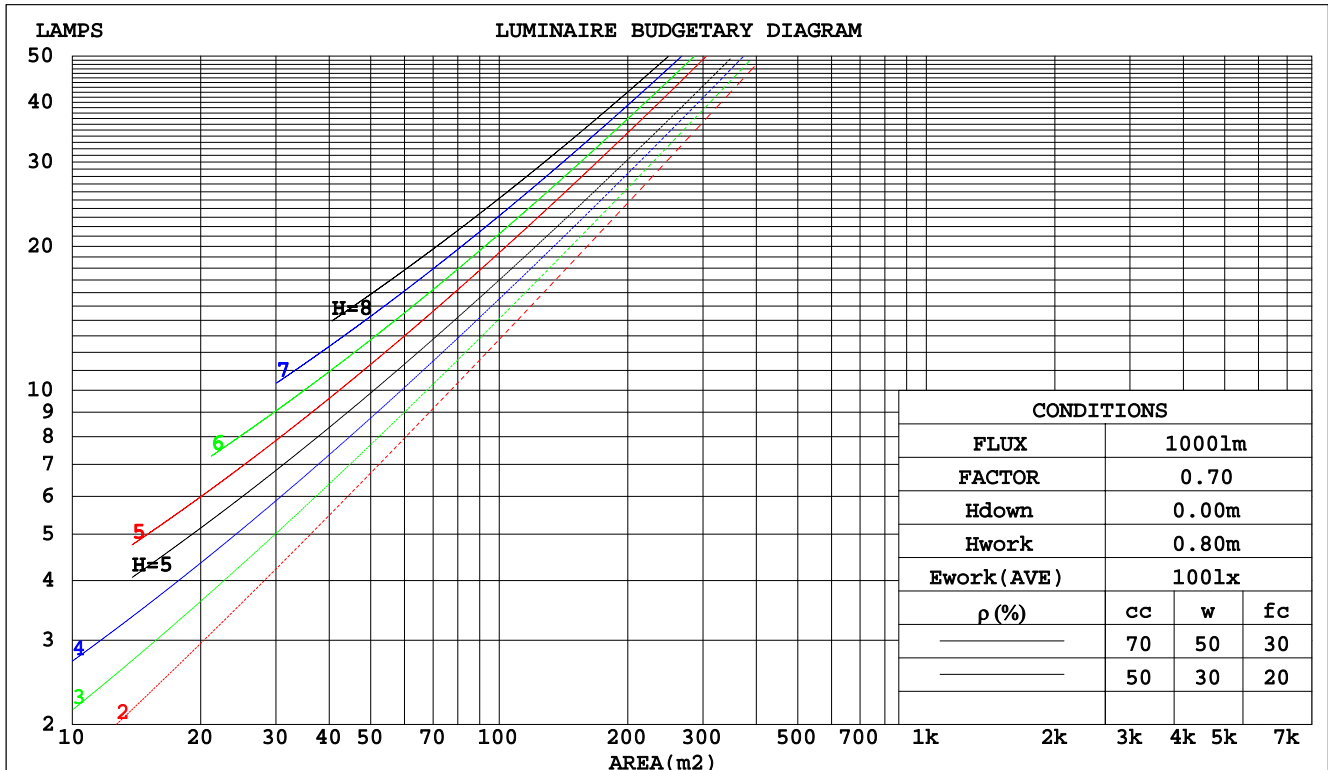
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-03

$\gamma$  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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-90D-PC-ALL	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	1.09	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.00	.96	.92	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83
3.0	.92	.87	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.78	.76
4.0	.85	.79	.74	.84	.78	.74	.82	.77	.73	.80	.75	.72	.78	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.65	.61	.70	.65	.60	.69	.64	.60	.67	.63	.60	.58
7.0	.67	.61	.56	.67	.60	.56	.65	.60	.55	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.51	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.50	.49
9.0	.58	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.43	.52	.47	.43	.42



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

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:

## WEC AND CCEC

Test:U:220.2V I:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-90D-PC-ALL	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	.203	.115	.037	.196	.112	.036	.183	.105	.034	.172	.099	.032	.161	.093	.030	
2.0	.195	.107	.033	.190	.104	.032	.179	.099	.031	.169	.095	.030	.159	.090	.028	
3.0	.186	.099	.030	.182	.097	.029	.172	.093	.028	.164	.090	.027	.156	.086	.027	
4.0	.178	.092	.027	.173	.091	.027	.165	.088	.026	.158	.085	.026	.151	.082	.025	
5.0	.169	.086	.025	.165	.085	.025	.158	.082	.024	.152	.080	.024	.145	.078	.023	
6.0	.161	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.140	.074	.022	
7.0	.154	.076	.022	.151	.075	.021	.145	.073	.021	.140	.072	.021	.135	.070	.021	
8.0	.147	.072	.020	.144	.071	.020	.139	.069	.020	.134	.068	.020	.130	.067	.019	
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.019	.125	.063	.018	
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.017	

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	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.159	.132	.110	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.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:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-100WoH-3030-90D-PC-ALL					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	11.5	12.6	11.8	12.8	13.0	11.5	12.6	11.7	12.7	12.9
3H	11.4	12.4	11.7	12.6	12.9	11.3	12.4	11.6	12.6	12.8
4H	11.4	12.3	11.7	12.6	12.8	11.3	12.2	11.6	12.5	12.7
6H	11.3	12.2	11.6	12.5	12.7	11.2	12.1	11.6	12.4	12.6
8H	11.3	12.2	11.6	12.4	12.7	11.2	12.1	11.5	12.3	12.6
12H	11.3	12.1	11.6	12.4	12.7	11.2	12.0	11.5	12.3	12.6
4H 2H	11.3	12.3	11.6	12.5	12.7	11.2	12.2	11.5	12.4	12.6
3H	11.2	12.1	11.6	12.3	12.6	11.2	12.0	11.5	12.2	12.5
4H	11.2	11.9	11.6	12.2	12.6	11.1	11.9	11.5	12.2	12.5
6H	11.2	11.8	11.6	12.2	12.5	11.1	11.8	11.5	12.1	12.4
8H	11.2	11.8	11.6	12.1	12.5	11.1	11.7	11.5	12.1	12.4
12H	11.2	11.8	11.6	12.1	12.5	11.1	11.7	11.5	12.1	12.4
8H 4H	11.1	11.7	11.5	12.1	12.4	11.0	11.6	11.4	12.0	12.3
6H	11.1	11.6	11.5	12.0	12.4	11.0	11.5	11.5	11.9	12.3
8H	11.1	11.6	11.6	12.0	12.4	11.1	11.5	11.5	11.9	12.4
12H	11.2	11.6	11.7	12.0	12.5	11.1	11.5	11.6	11.9	12.4
12H 4H	11.1	11.6	11.5	12.0	12.4	11.0	11.5	11.4	11.9	12.3
6H	11.1	11.5	11.5	11.9	12.4	11.0	11.4	11.5	11.9	12.3
8H	11.1	11.5	11.6	11.9	12.4	11.1	11.4	11.5	11.9	12.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 6.1					+ 2.2 / - 6.0				
1.5H	+ 4.0 / - 5.8					+ 3.8 / - 5.8				
2.0H	+ 6.0 / - 3.8					+ 6.0 / - 3.8				

CIE Pub.117, 11249 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.4$ )

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:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

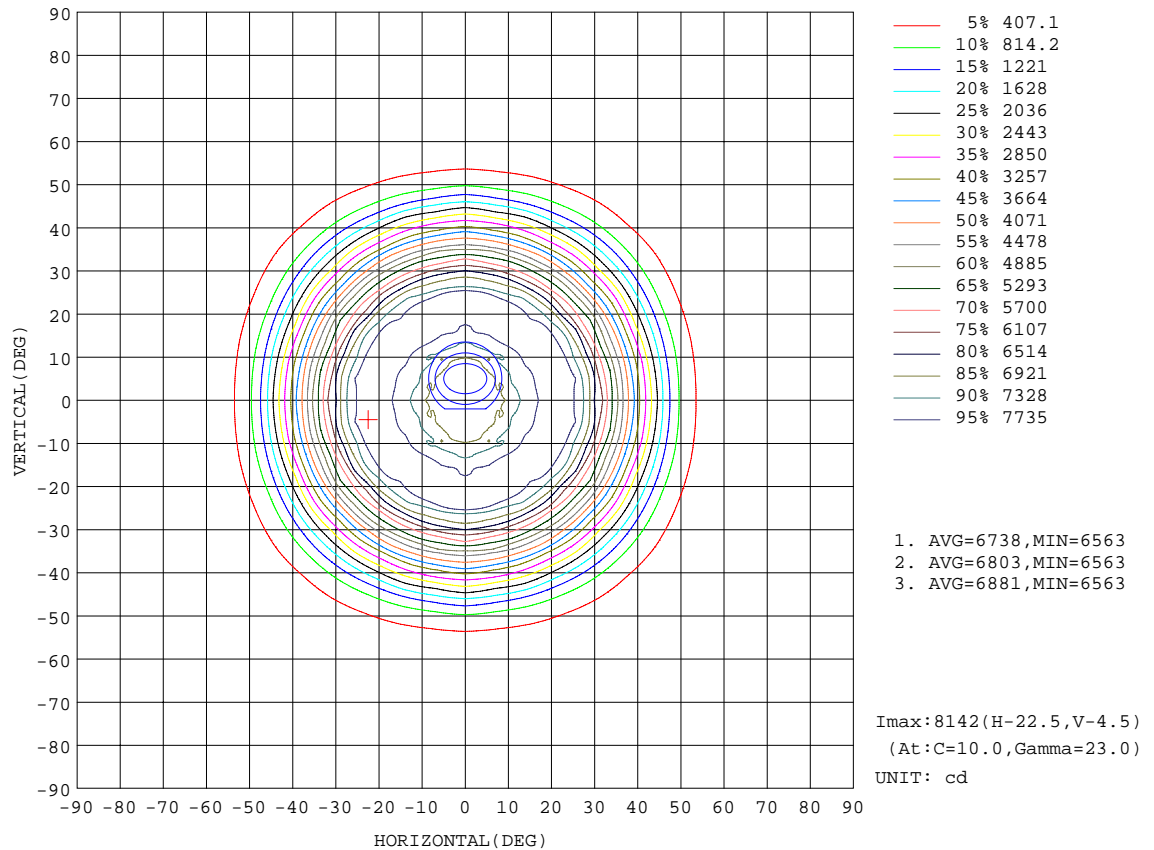
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	81	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	82	77	87	81	77	73
1.00	95	88	84	94	88	84	92	88	83	79
1.25	100	94	89	99	93	89	96	92	88	83
1.50	103	97	93	102	96	93	99	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	100	107	103	100	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



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

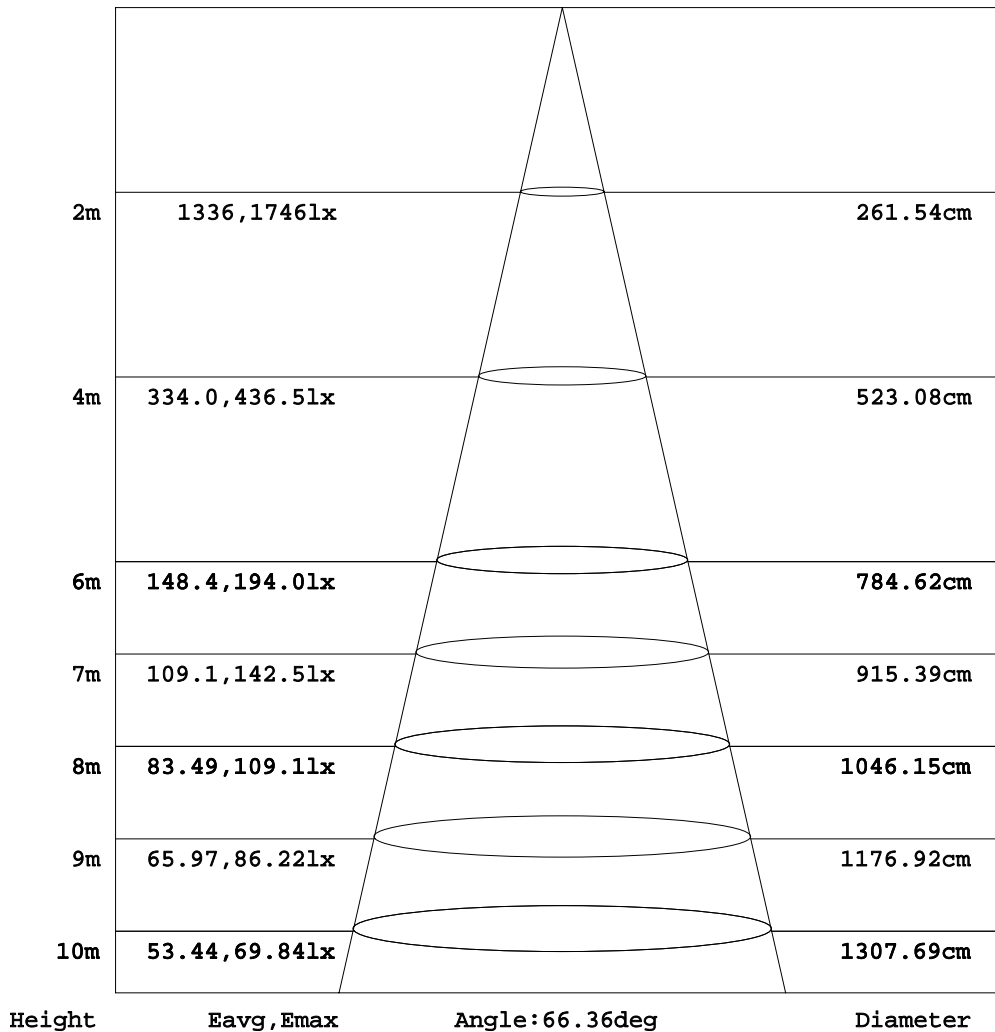
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:220.2V I:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

Flux out:7638 lm



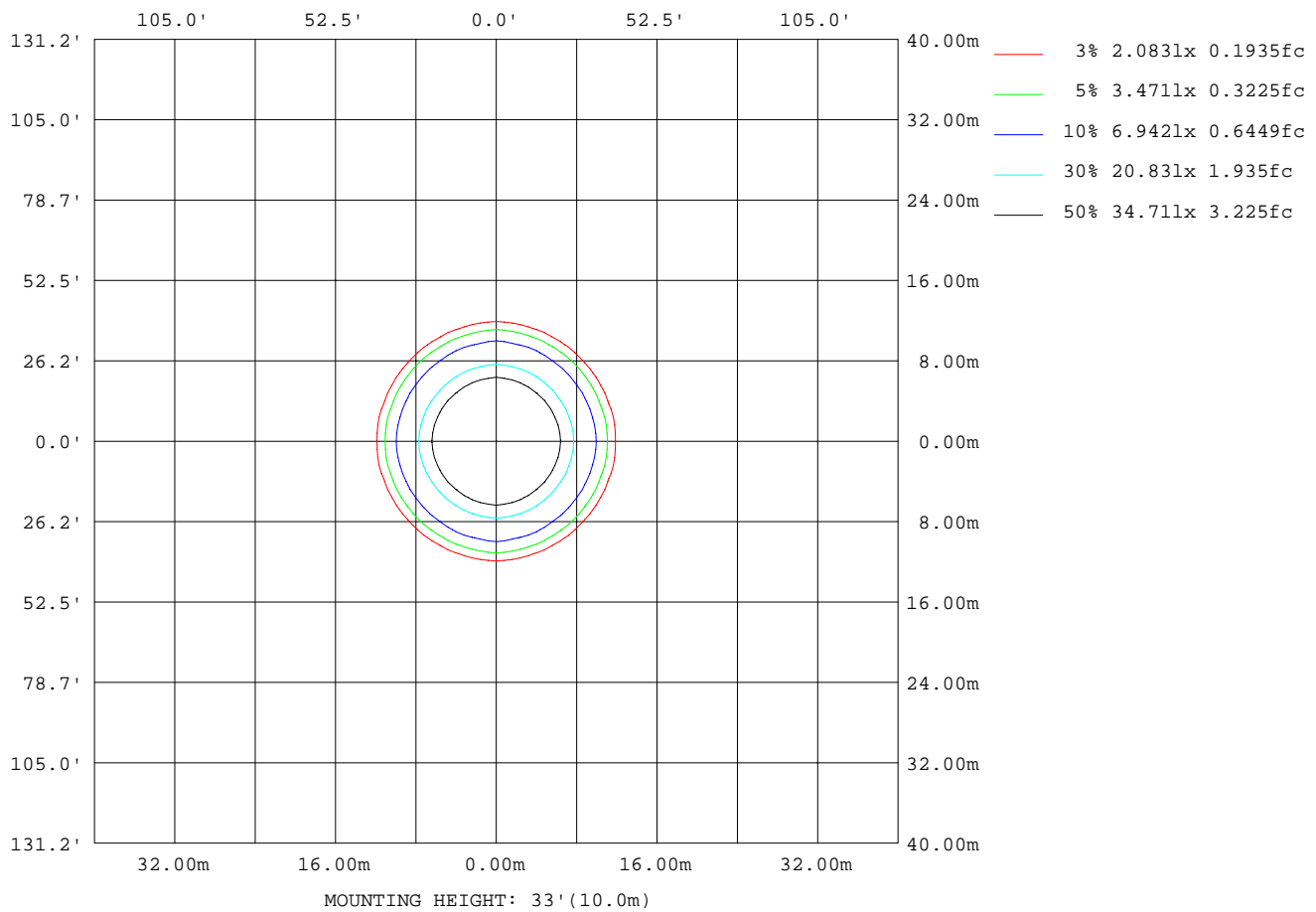
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

$\gamma$  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:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-90D-PC-ALL	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:

## LED Avg.L Report

Test:U:220.2V I:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

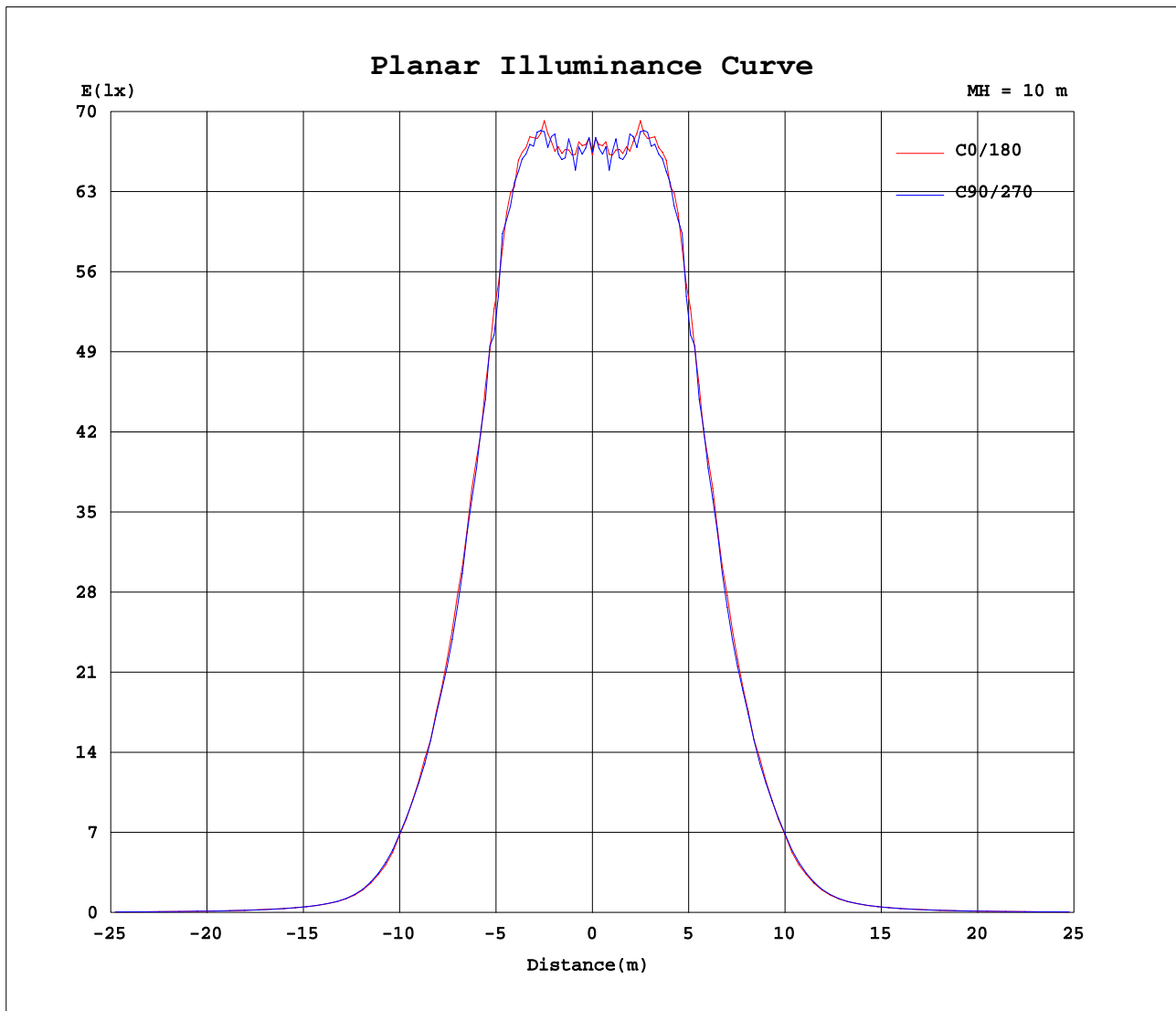
AvgL	cd/m2
L_0~180 (65) av	2957
L_0~180 (75) av	2451
L_0~180 (85) av	3896
L_90~270 (65) av	3014
L_90~270 (75) av	2468
L_90~270 (85) av	3873
L_45 (65) av	2852
L_45 (75) av	2344
L_45 (85) av	3717

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:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	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	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661
5	6746	6707	6770	6655	6773	6647	6683	6756	6627	6580	6627	6756	6683	6647	6773	6655	6770	6707	6746
10	7052	7137	7005	7049	7042	6896	7008	6983	6950	6961	6950	6983	7008	6896	7042	7049	7005	7137	7052
15	7603	7644	7571	7509	7598	7624	7575	7665	7657	7604	7657	7665	7575	7624	7598	7509	7571	7644	7603
20	8060	8130	7895	8014	8014	8096	8025	7994	7941	7959	7941	7994	8025	8096	8014	8014	7895	8130	8060
25	7836	7792	7762	7728	7767	7625	7676	7667	7871	7992	7871	7667	7676	7625	7767	7728	7762	7792	7836
30	6508	6728	6472	6566	6244	6370	6329	6404	6446	6534	6446	6404	6329	6370	6244	6566	6472	6728	6508
35	5075	4953	4841	4908	4806	4842	4763	4744	4927	4869	4927	4744	4763	4842	4806	4908	4841	4953	5075
40	3376	3360	3260	3257	3117	3149	3055	3197	3190	3359	3190	3197	3055	3149	3117	3257	3260	3360	3376
45	1930	1865	1776	1742	1706	1719	1722	1815	1813	1950	1813	1815	1722	1719	1706	1742	1776	1865	1930
50	747	760	720	730	699	717	710	728	721	771	721	728	710	717	699	730	720	760	747
55	333	333	320	321	310	317	319	328	326	335	326	328	319	317	310	321	320	333	333
60	196	194	187	187	184	182	189	189	190	194	190	189	189	182	184	187	187	194	196
65	125	123	123	124	121	121	122	124	121	127	121	124	122	121	121	124	123	123	125
70	89.3	87.9	88.6	88.9	86.7	86.1	86.8	89.0	87.5	89.3	87.5	89.0	86.8	86.1	86.7	88.9	88.6	87.9	89.3
75	63.4	63.0	62.3	62.6	61.0	60.8	61.9	63.8	63.2	63.9	63.2	63.8	61.9	60.8	61.0	62.6	62.3	63.0	63.4
80	44.5	44.3	43.7	44.2	43.0	43.2	43.8	44.9	44.5	45.1	44.5	44.9	43.8	43.2	43.0	44.2	43.7	44.3	44.5
85	34.0	33.7	32.6	32.6	32.1	32.7	32.9	33.6	33.4	33.8	33.4	33.6	32.9	32.7	32.1	32.6	32.6	33.7	34.0
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

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:220.2V I:0.4901A P:101.1W PF:0.9848 Freq:49.99Hz Lamp Flux:11248.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-90D-PC-ALL	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661	6661		
5	6707	6770	6655	6773	6647	6683	6756	6627	6580	6627	6756	6683	6647	6773	6655	6770	6707		
10	7137	7005	7049	7042	6896	7008	6983	6950	6961	6950	6983	7008	6896	7042	7049	7005	7137		
15	7644	7571	7509	7598	7624	7575	7665	7657	7604	7657	7665	7575	7624	7598	7509	7571	7644		
20	8130	7895	8014	8014	8096	8025	7994	7941	7959	7941	7994	8025	8096	8014	8014	7895	8130		
25	7792	7762	7728	7767	7625	7676	7667	7871	7992	7871	7667	7676	7625	7767	7728	7762	7792		
30	6728	6472	6566	6244	6370	6329	6404	6446	6534	6446	6404	6329	6370	6244	6566	6472	6728		
35	4953	4841	4908	4806	4842	4763	4744	4927	4869	4927	4744	4763	4842	4806	4908	4841	4953		
40	3360	3260	3257	3117	3149	3055	3197	3190	3359	3190	3197	3055	3149	3117	3257	3260	3360		
45	1865	1776	1742	1706	1719	1722	1815	1813	1950	1813	1815	1722	1719	1706	1742	1776	1865		
50	760	720	730	699	717	710	728	721	771	721	728	710	717	699	730	720	760		
55	333	320	321	310	317	319	328	326	335	326	328	319	317	310	321	320	333		
60	194	187	187	184	182	189	189	190	194	190	189	189	182	184	187	187	194		
65	123	123	124	121	121	122	124	121	127	121	124	122	121	121	124	123	123		
70	87.9	88.6	88.9	86.7	86.1	86.8	89.0	87.5	89.3	87.5	89.0	86.8	86.1	86.7	88.9	88.6	87.9		
75	63.0	62.3	62.6	61.0	60.8	61.9	63.8	63.2	63.9	63.2	63.8	61.9	60.8	61.0	62.6	62.3	63.0		
80	44.3	43.7	44.2	43.0	43.2	43.8	44.9	44.5	45.1	44.5	44.9	43.8	43.2	43.0	44.2	43.7	44.3		
85	33.7	32.6	32.6	32.1	32.7	32.9	33.6	33.4	33.8	33.4	33.6	32.9	32.7	32.1	32.6	32.6	33.7		
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

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: