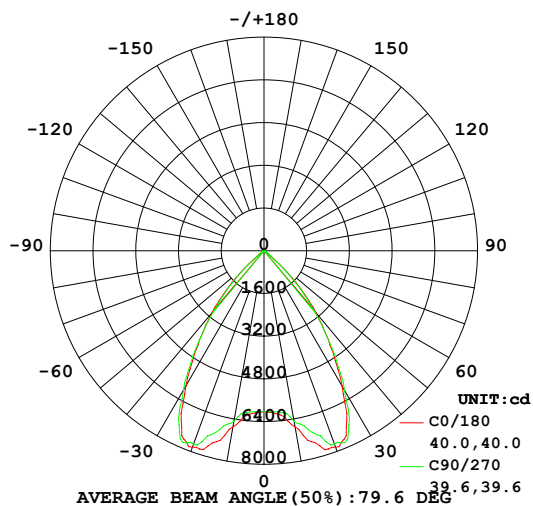


## LUMINAIRE PHOTOMETRIC TEST REPORT

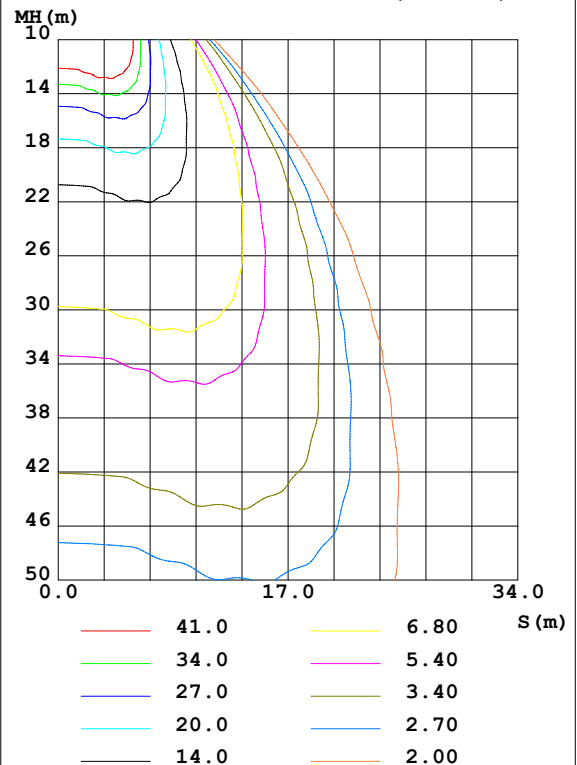
Test:U:220.1V I:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:2.9KG	
SPEC.:AOK-60WoH-5050-90D-PC		DIM.: $\phi$ 0.248*0.138M		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi$ 0.16M		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 169.54 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	7861	S/MH (C0/180)	1.15
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	10190	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	10189.6	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:2018-01-08

$\gamma$  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	6694	6679	6491	6679	6694	6679	6491	6679	0- 10	597.6	597.6	5.86, 5.86
20	7834	7677	7715	7677	7834	7677	7715	7677	10- 20	2070	2667	26.2, 26.2
30	5851	5959	6019	5959	5851	5959	6019	5959	20- 30	3294	5961	58.5, 58.5
40	3019	2818	2908	2818	3019	2818	2908	2818	30- 40	2706	8666	85.1, 85.1
50	477.0	469.8	512.9	469.8	477.0	469.8	512.9	469.8	40- 50	1242	9909	97.2, 97.2
60	84.29	82.79	86.34	82.79	84.29	82.79	86.34	82.79	50- 60	150.2	10059	98.7, 98.7
70	51.63	51.05	52.66	51.05	51.63	51.05	52.66	51.05	60- 70	65.80	10125	99.4, 99.4
80	29.90	29.97	31.15	29.97	29.90	29.97	31.15	29.97	70- 80	42.35	10167	99.8, 99.8
90	0	0	0	0	0	0	0	0	80- 90	22.40	10190	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	10190	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	10190	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	10190	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	10190	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	10190	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	10190	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	10190	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	10190	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	10190	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9496.3 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 10059 lm

%lum = 98.7%

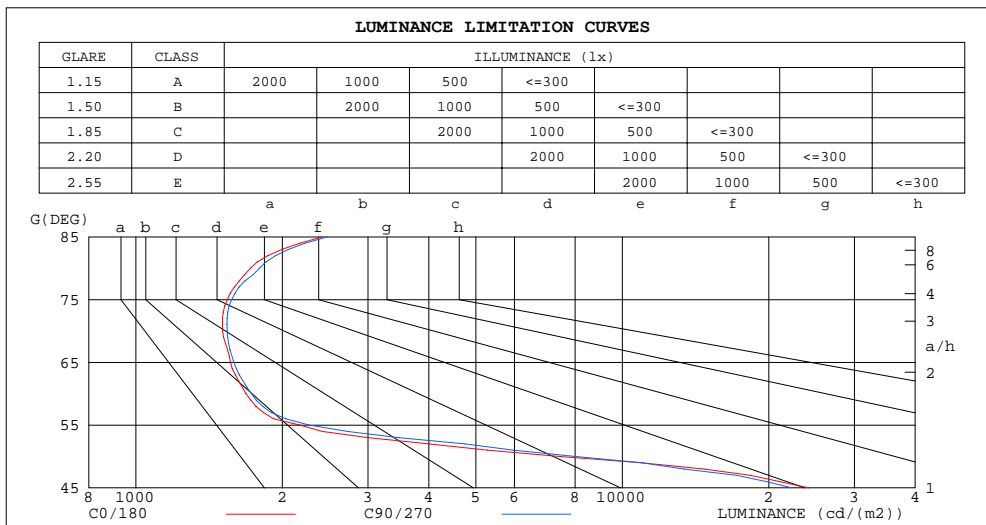
%lamp = 98.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-PC	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2417	2477
80	1720	1795
75	1542	1575
70	1508	1540
65	1565	1590
60	1685	1728
55	2173	2271
50	7415	7983
45	24188	22350

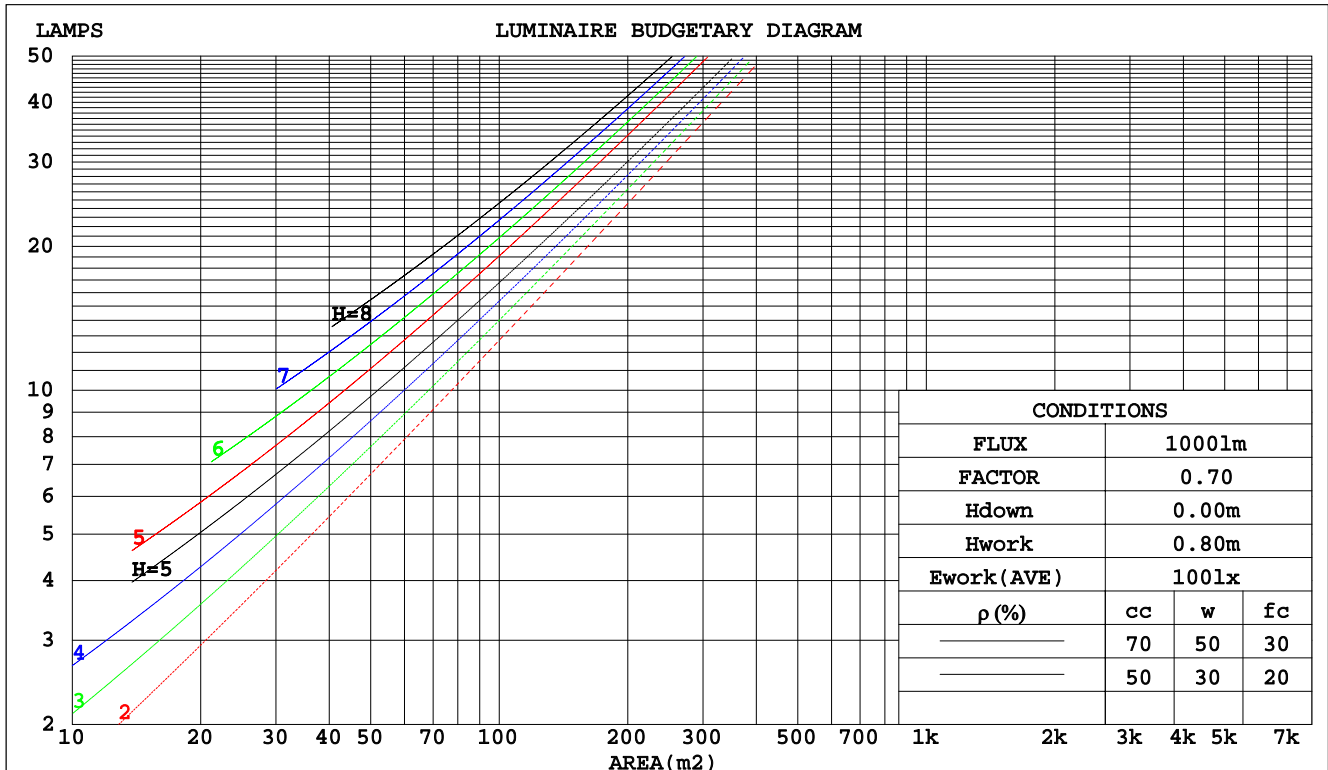
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  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:220.1V I:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-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	.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.88	.83	.92	.87	.83	.89	.85	.81	.87	.83	.80	.84	.81	.79	.77
4.0	.86	.80	.75	.85	.79	.75	.83	.78	.74	.81	.76	.73	.79	.75	.72	.70
5.0	.80	.73	.68	.79	.73	.68	.77	.71	.67	.75	.70	.67	.73	.69	.66	.65
6.0	.74	.67	.62	.73	.67	.62	.71	.66	.62	.70	.65	.61	.69	.64	.61	.59
7.0	.69	.62	.57	.68	.62	.57	.67	.61	.57	.65	.60	.56	.64	.60	.56	.55
8.0	.64	.57	.53	.63	.57	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.50
9.0	.60	.53	.49	.59	.53	.49	.58	.52	.48	.57	.52	.48	.56	.52	.48	.47
10.0	.56	.49	.45	.55	.49	.45	.54	.49	.45	.54	.48	.45	.53	.48	.45	.43



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-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	.197	.112	.035	.190	.108	.034	.177	.102	.032	.166	.096	.031	.155	.090	.029		
2.0	.190	.104	.032	.184	.101	.031	.173	.096	.030	.163	.092	.029	.154	.087	.027		
3.0	.181	.096	.029	.176	.094	.028	.167	.091	.028	.158	.087	.027	.151	.083	.026		
4.0	.173	.090	.026	.169	.088	.026	.161	.085	.025	.153	.082	.025	.146	.079	.024		
5.0	.165	.084	.024	.161	.083	.024	.154	.080	.024	.148	.078	.023	.141	.076	.023		
6.0	.158	.079	.023	.154	.078	.022	.148	.076	.022	.142	.074	.022	.137	.072	.021		
7.0	.151	.074	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020	.132	.069	.020		
8.0	.144	.070	.020	.141	.070	.020	.136	.068	.019	.132	.067	.019	.127	.065	.019		
9.0	.138	.067	.019	.135	.066	.019	.131	.065	.018	.127	.063	.018	.123	.062	.018		
10.0	.132	.063	.018	.130	.063	.017	.126	.062	.017	.122	.061	.017	.118	.059	.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	.172	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.112	.076	.049	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.123	.079	.047	.106	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.117	.072	.040	.101	.062	.035	.070	.044	.025	.040	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.096	.057	.030	.067	.040	.021	.039	.024	.013	.013	.008	.004	
9.0	.107	.061	.029	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm												
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG				
SPEC.:AOK-60WoH-5050-90D-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		11.3	12.4	11.5	12.6	12.7	11.2	12.2	11.4	12.4	12.6	
	3H	11.2	12.1	11.4	12.3	12.6	11.0	12.0	11.3	12.2	12.4	
	4H	11.1	12.0	11.4	12.2	12.5	10.9	11.9	11.2	12.1	12.3	
	6H	11.0	11.9	11.3	12.1	12.4	10.9	11.7	11.2	12.0	12.3	
	8H	11.0	11.8	11.3	12.1	12.3	10.9	11.7	11.2	11.9	12.2	
	12H	11.0	11.8	11.3	12.0	12.3	10.8	11.6	11.2	11.9	12.2	
	4H	2H	11.1	12.0	11.3	12.2	12.4	10.9	11.8	11.2	12.1	12.3
		3H	10.9	11.7	11.2	12.0	12.3	10.8	11.6	11.1	11.8	12.1
		4H	10.9	11.6	11.2	11.9	12.2	10.7	11.4	11.1	11.7	12.0
		6H	10.8	11.4	11.2	11.8	12.1	10.7	11.3	11.1	11.6	12.0
		8H	10.8	11.4	11.2	11.7	12.1	10.7	11.2	11.0	11.6	12.0
		12H	10.8	11.3	11.2	11.7	12.1	10.6	11.2	11.1	11.5	11.9
8H	4H	10.7	11.3	11.1	11.7	12.0	10.6	11.2	11.0	11.5	11.9	
	6H	10.7	11.2	11.1	11.6	12.0	10.6	11.0	11.0	11.4	11.9	
	8H	10.7	11.1	11.1	11.5	12.0	10.6	11.0	11.0	11.4	11.8	
	12H	10.7	11.1	11.2	11.5	12.0	10.6	10.9	11.0	11.4	11.8	
12H	4H	10.7	11.2	11.1	11.6	12.0	10.5	11.1	11.0	11.5	11.8	
	6H	10.7	11.1	11.1	11.5	11.9	10.5	10.9	11.0	11.4	11.8	
	8H	10.7	11.0	11.1	11.5	11.9	10.5	10.9	11.0	11.3	11.8	
Variations with the observer position at spacings:												
S = 1.0H	+ 2.4 / - 8.8					+ 2.5 / - 8.7						
1.5H	+ 4.0 / - 9.4					+ 4.2 / - 9.2						
2.0H	+ 7.0 / - 5.7					+ 6.8 / - 5.2						

CIE Pub.117, 10190 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.1$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-PC	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

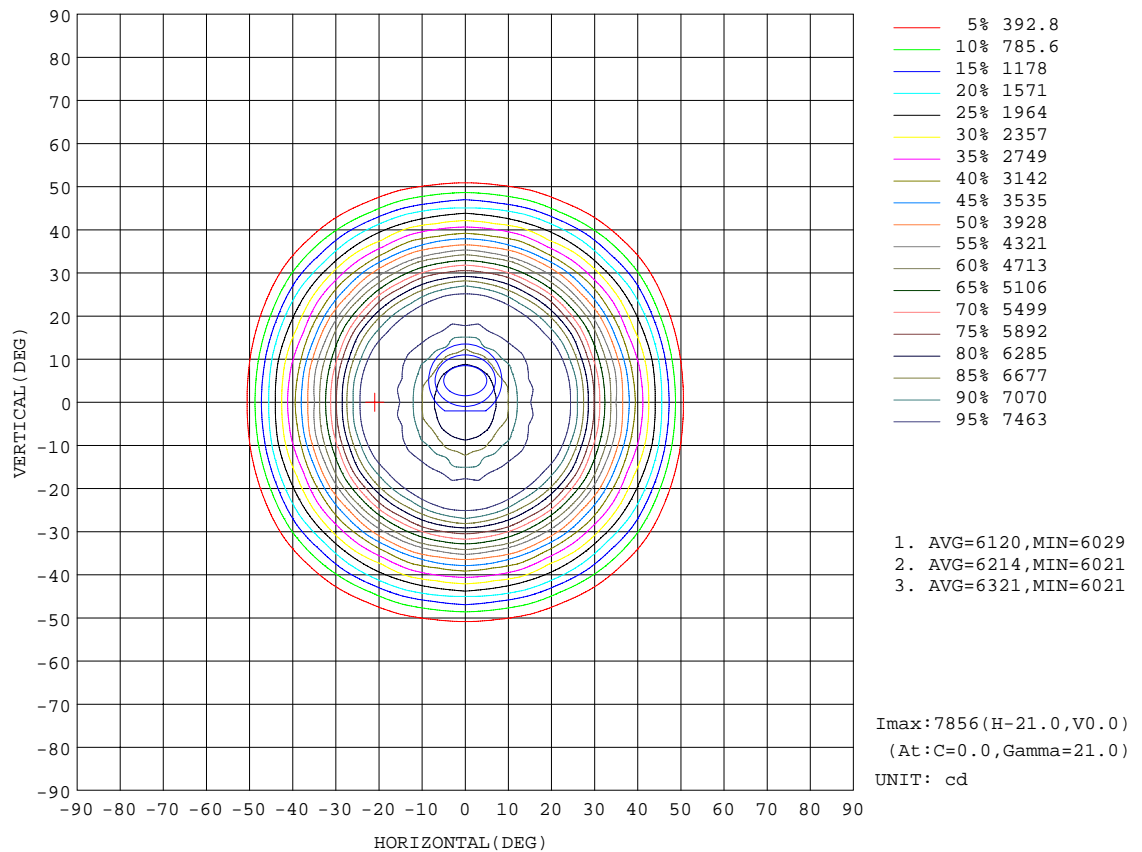
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	71	82	75	70	81	74	70	66
0.80	90	84	79	90	83	79	88	83	79	75
1.00	96	90	85	95	89	85	93	89	85	80
1.25	101	95	91	100	94	90	97	93	90	85
1.50	104	98	95	102	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	97	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
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:2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-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:2018-01-08

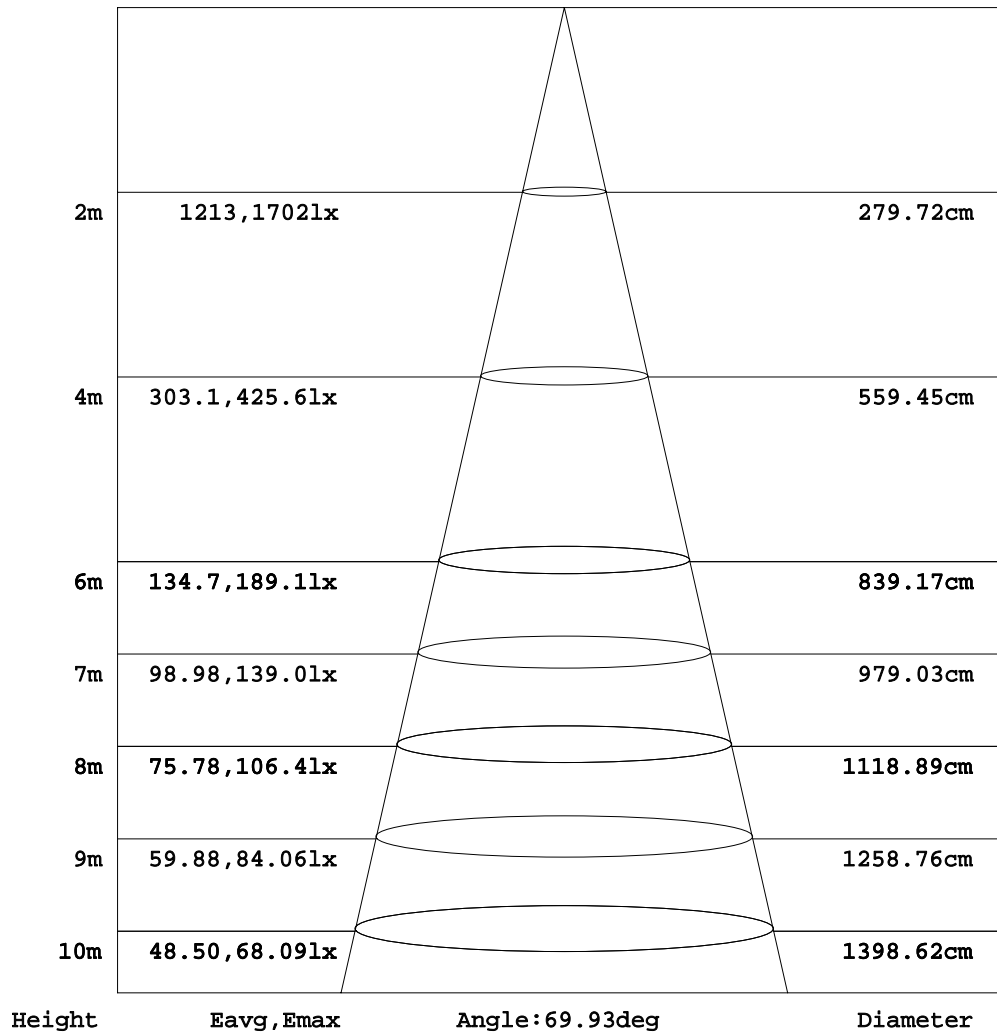
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:220.1V I:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-PC	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

Flux out:7471 lm



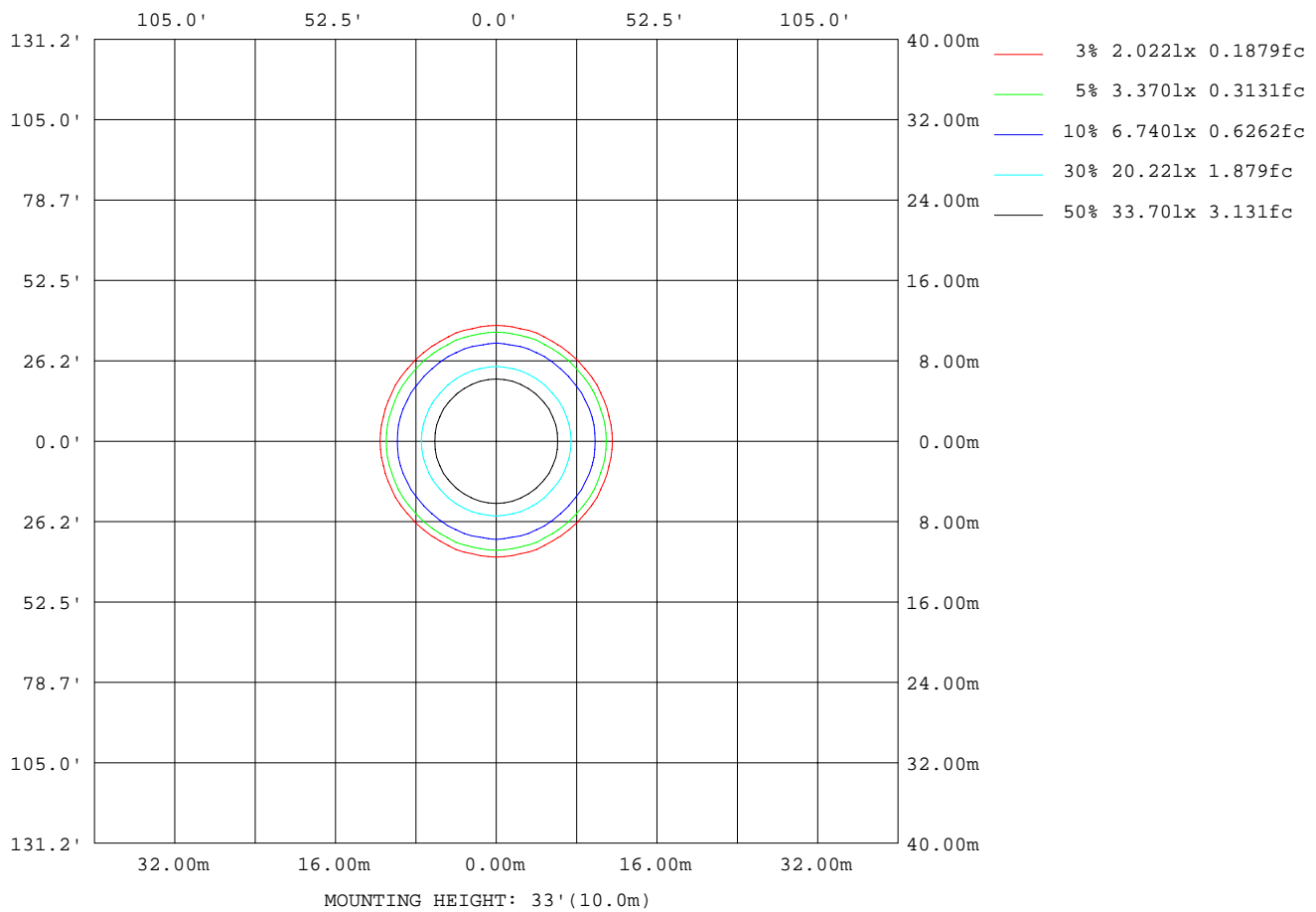
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60Woh-5050-90D-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:2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-PC	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

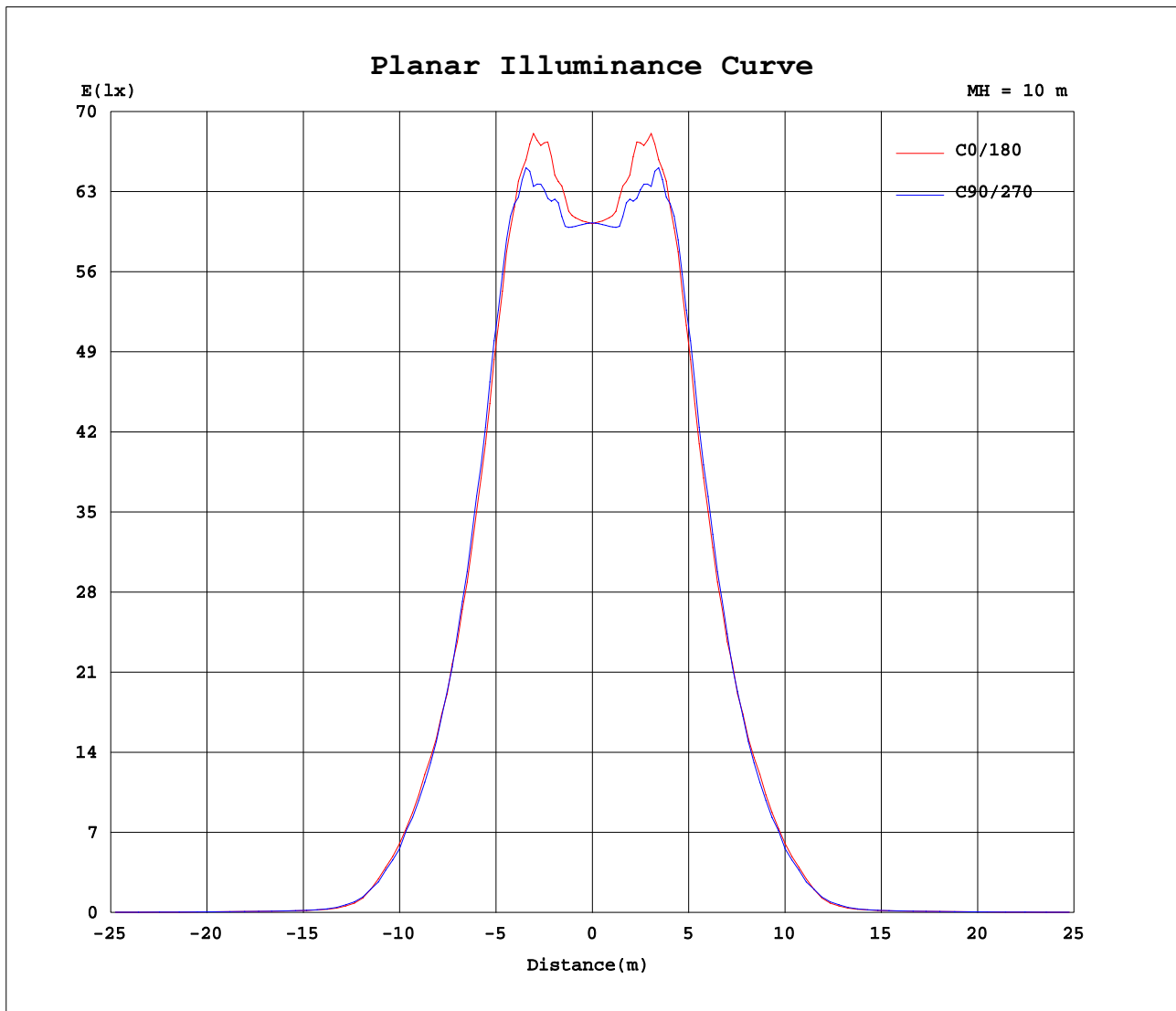
AvgL	cd/m2
L_0~180 (65) av	1566
L_0~180 (75) av	1543
L_0~180 (85) av	2419
L_90~270 (65) av	1589
L_90~270 (75) av	1574
L_90~270 (85) av	2475
L_45 (65) av	1544
L_45 (75) av	1519
L_45 (85) av	2381

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-08

$\gamma$  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: 2018-01-08

$\gamma$  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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-PC	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	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025
5	6146	6138	6136	6123	6116	6100	6092	6079	6073	6063	6073	6079	6092	6100	6116	6123	6136	6138	6146
10	6694	6662	6639	6669	6687	6671	6623	6511	6488	6491	6488	6511	6623	6671	6687	6669	6639	6662	6694
15	7444	7359	7406	7266	7262	7329	7294	7168	7050	7058	7050	7168	7294	7329	7262	7266	7406	7359	7444
20	7834	7757	7757	7656	7659	7696	7653	7703	7674	7715	7674	7703	7653	7696	7659	7656	7757	7757	7834
25	7301	7366	7335	7356	7284	7265	7298	7386	7488	7490	7488	7386	7298	7265	7284	7356	7335	7366	7301
30	5851	5897	5927	5990	5929	5988	5929	6050	5993	6019	5993	6050	5929	5988	5929	5990	5927	5897	5851
35	4310	4474	4350	4333	4286	4322	4302	4311	4323	4426	4323	4311	4302	4322	4286	4333	4350	4474	4310
40	3019	2984	2840	2904	2813	2822	2794	2908	2893	2908	2893	2908	2794	2822	2813	2904	2840	2984	3019
45	1712	1775	1702	1637	1508	1579	1590	1631	1611	1579	1611	1631	1590	1579	1508	1637	1702	1775	1712
50	477	485	478	495	458	482	470	511	506	513	506	511	470	482	458	495	478	485	477
55	125	118	121	116	113	113	121	122	131	130	131	122	121	113	113	116	121	118	125
60	84.3	85.0	84.0	84.3	83.2	82.4	82.9	84.6	85.5	86.3	85.5	84.6	82.9	82.4	83.2	84.3	84.0	85.0	84.3
65	66.2	66.5	65.6	65.9	65.6	65.0	65.0	65.9	66.6	67.2	66.6	65.9	65.0	65.0	65.6	65.9	65.6	66.5	66.2
70	51.6	51.7	51.2	51.3	51.2	50.9	50.9	51.7	52.1	52.7	52.1	51.7	50.9	50.9	51.2	51.3	51.2	51.7	51.6
75	39.9	39.9	39.5	39.3	39.2	39.4	39.2	39.9	40.1	40.7	40.1	39.9	39.2	39.4	39.2	39.3	39.5	39.9	39.9
80	29.9	30.0	29.8	29.9	29.9	30.1	30.1	30.6	30.6	31.1	30.6	30.6	30.1	30.1	29.9	29.9	29.8	30.0	29.9
85	21.1	21.3	21.0	20.9	20.7	20.8	20.6	21.0	21.1	21.6	21.1	21.0	20.6	20.8	20.7	20.9	21.0	21.3	21.1
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:2018-01-08

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:0.2987A P:60.10W PF:0.9742 Freq:49.99Hz Lamp Flux:10189.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-5050-90D-PC	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	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025	6025		
5	6138	6136	6123	6116	6100	6092	6079	6073	6063	6073	6079	6092	6100	6116	6123	6136	6138		
10	6662	6639	6669	6687	6671	6623	6511	6488	6491	6488	6511	6623	6671	6687	6669	6639	6662		
15	7359	7406	7266	7262	7329	7294	7168	7050	7058	7050	7168	7294	7329	7262	7266	7406	7359		
20	7757	7757	7656	7659	7696	7653	7703	7674	7715	7674	7703	7653	7696	7659	7656	7757	7757		
25	7366	7335	7356	7284	7265	7298	7386	7488	7490	7488	7386	7298	7265	7284	7356	7335	7366		
30	5897	5927	5990	5929	5988	5929	6050	5993	6019	5993	6050	5929	5988	5929	5990	5927	5897		
35	4474	4350	4333	4286	4322	4302	4311	4323	4426	4323	4311	4302	4322	4286	4333	4350	4474		
40	2984	2840	2904	2813	2822	2794	2908	2893	2908	2893	2908	2794	2822	2813	2904	2840	2984		
45	1775	1702	1637	1508	1579	1590	1631	1611	1579	1611	1631	1590	1579	1508	1637	1702	1775		
50	485	478	495	458	482	470	511	506	513	506	511	470	482	458	495	478	485		
55	118	121	116	113	113	121	122	131	130	131	122	121	113	113	116	121	118		
60	85.0	84.0	84.3	83.2	82.4	82.9	84.6	85.5	86.3	85.5	84.6	82.9	82.4	83.2	84.3	84.0	85.0		
65	66.5	65.6	65.9	65.6	65.0	65.0	65.9	66.6	67.2	66.6	65.9	65.0	65.0	65.6	65.9	65.6	66.5		
70	51.7	51.2	51.3	51.2	50.9	50.9	51.7	52.1	52.7	52.1	51.7	50.9	50.9	51.2	51.3	51.2	51.7		
75	39.9	39.5	39.3	39.2	39.4	39.2	39.9	40.1	40.7	40.1	39.9	39.2	39.4	39.2	39.3	39.5	39.9		
80	30.0	29.8	29.9	29.9	30.1	30.1	30.6	30.6	31.1	30.6	30.6	30.1	30.1	29.9	29.9	29.8	30.0		
85	21.3	21.0	20.9	20.7	20.8	20.6	21.0	21.1	21.6	21.1	21.0	20.6	20.8	20.7	20.9	21.0	21.3		
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:2018-01-08

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: