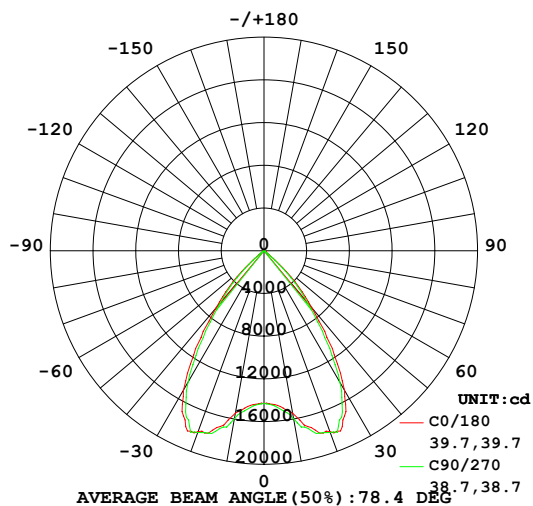


## LUMINAIRE PHOTOMETRIC TEST REPORT

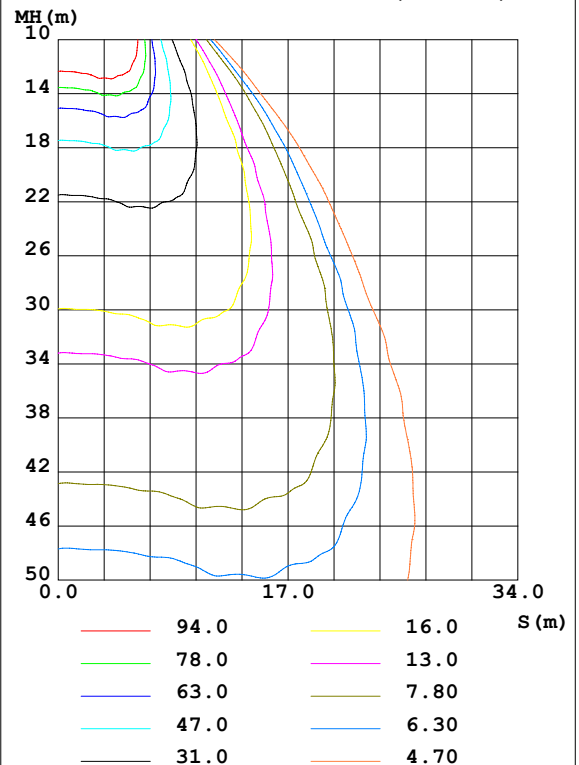
Test:U:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.61 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	18560	S/MH (C0/180)	1.15
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.12
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	24108	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	24107.6	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:2018-01-09

$\gamma$  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	1543	1569	1595	1569	1543	1569	1595	1569	0- 10	1433	1433	5.94,5.94
20	1803	1806	1812	1806	1803	1806	1812	1806	10- 20	4904	6337	26.3,26.3
30	1509	1427	1421	1427	1509	1427	1421	1427	20- 30	7780	14117	58.6,58.6
40	698.6	665.2	640.3	665.2	698.6	665.2	640.3	665.2	30- 40	6468	20585	85.4,85.4
50	127.5	117.5	99.01	117.5	127.5	117.5	99.01	117.5	40- 50	2939	23525	97.6,97.6
60	15.75	15.59	14.84	15.59	15.75	15.59	14.84	15.59	50- 60	327.2	23852	98.9,98.9
70	9.948	9.842	9.392	9.842	9.948	9.842	9.392	9.842	60- 70	122.5	23975	99.4,99.4
80	6.390	6.256	6.070	6.256	6.390	6.256	6.070	6.256	70- 80	82.80	24057	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	50.26	24108	100,100
100	0	0	0	0	0	0	0	0	90-100	0	24108	100,100
110	0	0	0	0	0	0	0	0	100-110	0	24108	100,100
120	0	0	0	0	0	0	0	0	110-120	0	24108	100,100
130	0	0	0	0	0	0	0	0	120-130	0	24108	100,100
140	0	0	0	0	0	0	0	0	130-140	0	24108	100,100
150	0	0	0	0	0	0	0	0	140-150	0	24108	100,100
160	0	0	0	0	0	0	0	0	150-160	0	24108	100,100
170	0	0	0	0	0	0	0	0	160-170	0	24108	100,100
180	0	0	0	0	0	0	0	0	170-180	0	24108	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 22539 lm

%lum = 93.5%

%lamp = 93.5%

Conical surface Flux(120deg): 23852 lm

%lum = 98.9%

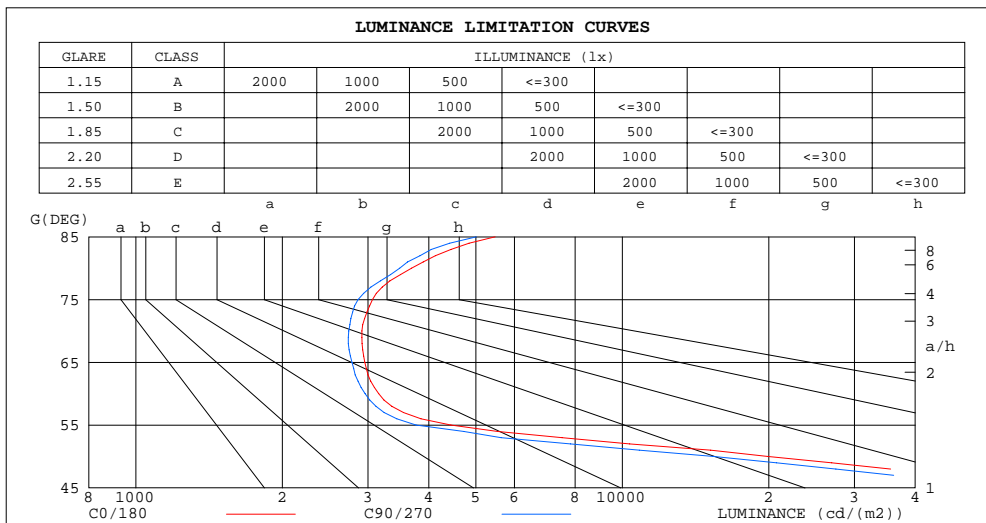
%lamp = 98.9%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\Phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi 0.24\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5476	5012
80	3687	3487
75	3065	2863
70	2914	2739
65	2955	2781
60	3155	2960
55	4443	3766
50	19876	15364
45	58262	50790

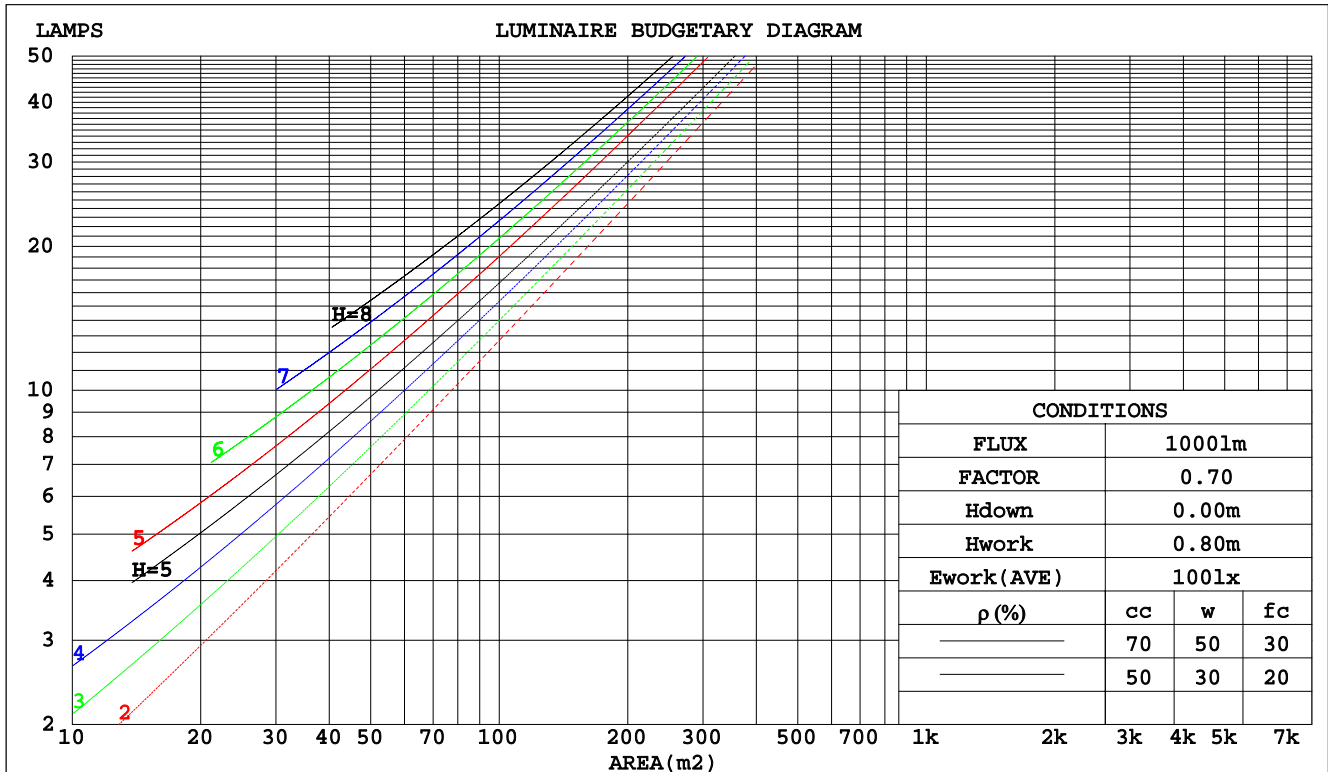
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
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	.77	.73	.79	.75	.72	.71
5.0	.80	.73	.69	.79	.73	.68	.77	.72	.68	.75	.71	.67	.74	.70	.66	.65
6.0	.74	.67	.63	.73	.67	.62	.72	.66	.62	.70	.65	.62	.69	.64	.61	.59
7.0	.69	.62	.57	.68	.62	.57	.67	.61	.57	.65	.60	.57	.64	.60	.56	.55
8.0	.64	.57	.53	.63	.57	.53	.62	.57	.53	.61	.56	.52	.60	.56	.52	.51
9.0	.60	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.48	.56	.52	.48	.47
10.0	.56	.50	.45	.55	.49	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.43



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-90D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.196	.111	.035	.189	.108	.034	.176	.101	.032	.165	.095	.030	.154	.089	.029		
2.0	.189	.103	.032	.183	.101	.031	.172	.096	.030	.162	.091	.028	.153	.087	.027		
3.0	.180	.096	.029	.176	.094	.028	.166	.090	.027	.158	.086	.027	.150	.083	.026		
4.0	.172	.090	.026	.168	.088	.026	.160	.085	.025	.153	.082	.025	.146	.079	.024		
5.0	.165	.084	.024	.161	.083	.024	.154	.080	.024	.147	.078	.023	.141	.075	.023		
6.0	.157	.079	.023	.154	.078	.022	.148	.076	.022	.142	.074	.022	.136	.072	.021		
7.0	.150	.074	.021	.147	.073	.021	.142	.072	.021	.136	.070	.020	.131	.068	.020		
8.0	.144	.070	.020	.141	.069	.020	.136	.068	.019	.131	.067	.019	.127	.065	.019		
9.0	.138	.067	.019	.135	.066	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018		
10.0	.132	.063	.018	.130	.063	.017	.126	.061	.017	.122	.060	.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	.158	.132	.110	.136	.114	.096	.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	.050	.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	.066	.040	.021	.039	.024	.013	.013	.008	.004	
9.0	.107	.061	.030	.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:2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm											
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG			
SPEC.:AOK-150WoH-5050-90D-PC					DIM.: $\phi$ 0.319*0.138M			SERIAL No.:1			
MFR.: AOK					SUR.: $\phi$ 0.24M			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H		11.5	12.6	11.7	12.7	12.9	11.1	12.1	11.3	12.3	12.5
3H		11.3	12.3	11.6	12.5	12.7	10.9	11.9	11.2	12.1	12.3
4H		11.2	12.2	11.5	12.4	12.6	10.8	11.7	11.1	12.0	12.2
6H		11.2	12.0	11.5	12.3	12.5	10.7	11.6	11.1	11.9	12.1
8H		11.1	12.0	11.4	12.2	12.5	10.7	11.5	11.0	11.8	12.1
12H		11.1	11.9	11.4	12.2	12.4	10.7	11.5	11.0	11.8	12.0
4H 2H		11.2	12.1	11.5	12.4	12.6	10.8	11.7	11.1	11.9	12.2
3H		11.1	11.9	11.4	12.1	12.4	10.6	11.4	11.0	11.7	12.0
4H		11.0	11.7	11.3	12.0	12.3	10.6	11.3	10.9	11.6	11.9
6H		10.9	11.6	11.3	11.9	12.2	10.5	11.1	10.9	11.5	11.8
8H		10.9	11.5	11.3	11.8	12.2	10.5	11.1	10.9	11.4	11.8
12H		10.9	11.4	11.3	11.8	12.2	10.5	11.0	10.9	11.4	11.8
8H 4H		10.9	11.4	11.3	11.8	12.2	10.4	11.0	10.8	11.4	11.8
6H		10.8	11.3	11.2	11.7	12.1	10.4	10.9	10.8	11.3	11.7
8H		10.8	11.2	11.2	11.6	12.1	10.4	10.8	10.8	11.2	11.7
12H		10.8	11.2	11.3	11.6	12.1	10.4	10.7	10.9	11.2	11.7
12H 4H		10.8	11.3	11.2	11.7	12.1	10.4	10.9	10.8	11.3	11.7
6H		10.8	11.2	11.2	11.6	12.0	10.4	10.8	10.8	11.2	11.6
8H		10.8	11.1	11.2	11.6	12.0	10.4	10.7	10.8	11.2	11.6
Variations with the observer position at spacings:											
S = 1.0H		+ 2.8 / - 9.9					+ 2.4 / - 9.8				
1.5H		+ 4.4 / -10.4					+ 4.1 / -10.2				
2.0H		+ 7.1 / - 6.7					+ 7.0 / - 6.2				

CIE Pub.117, 24108 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.1$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-90D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

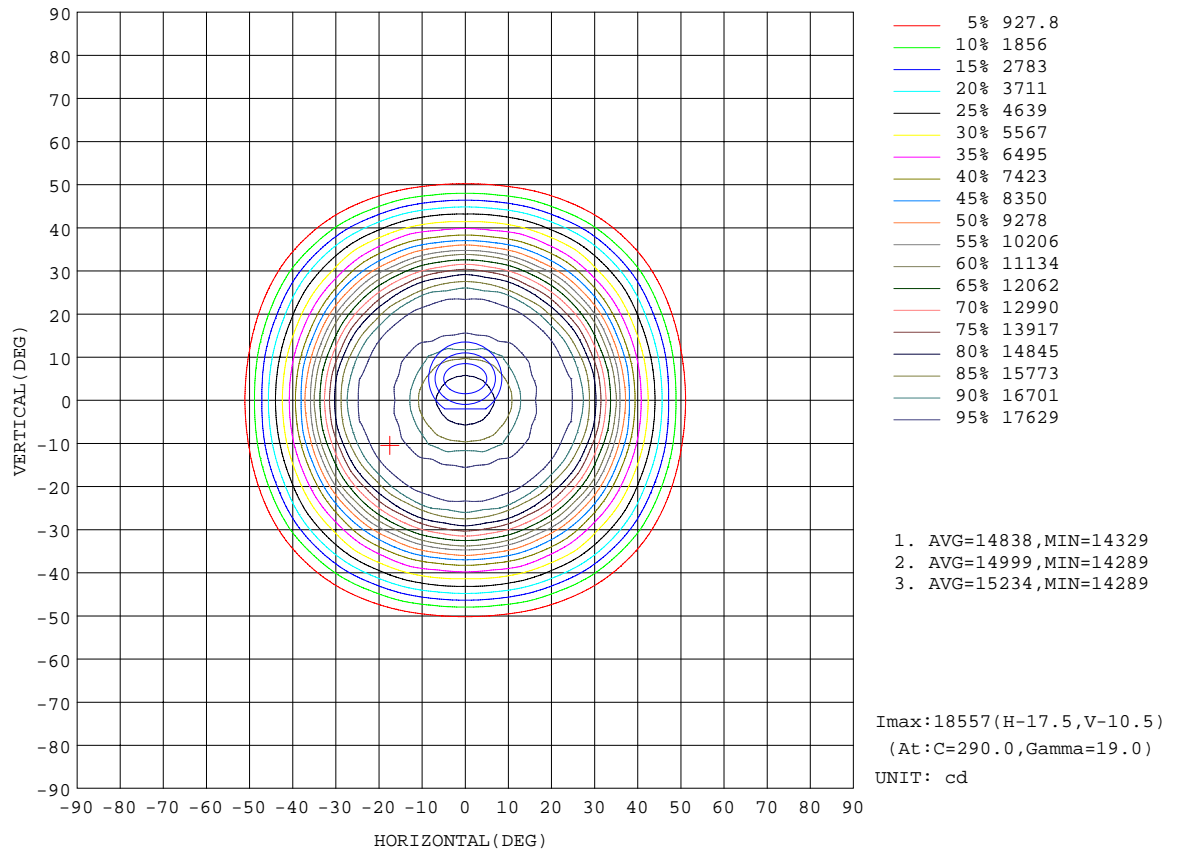
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	85	94	89	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	99	95	103	98	94	100	96	93	88
2.00	107	103	99	106	101	98	103	99	97	91
2.50	109	105	101	107	104	101	104	101	99	93
3.00	111	107	104	109	106	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:2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

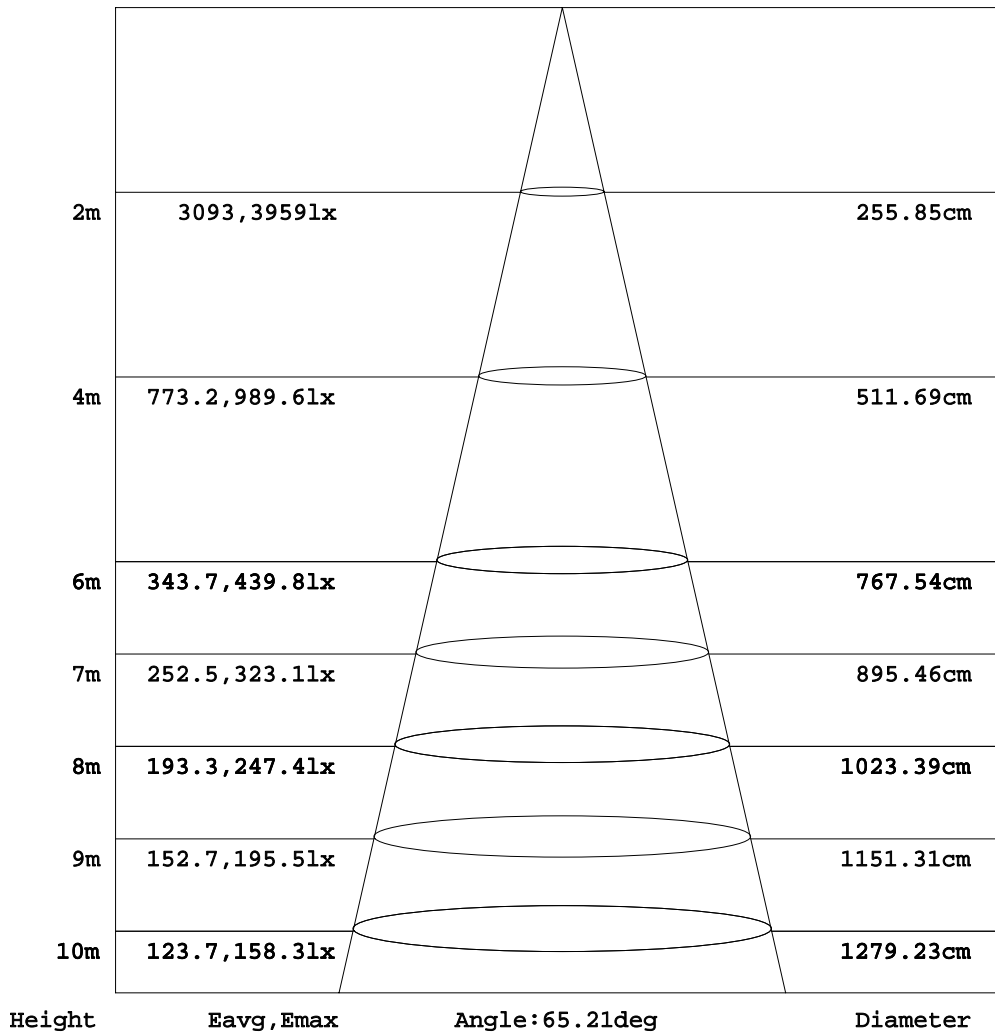
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Flux out:16391 lm



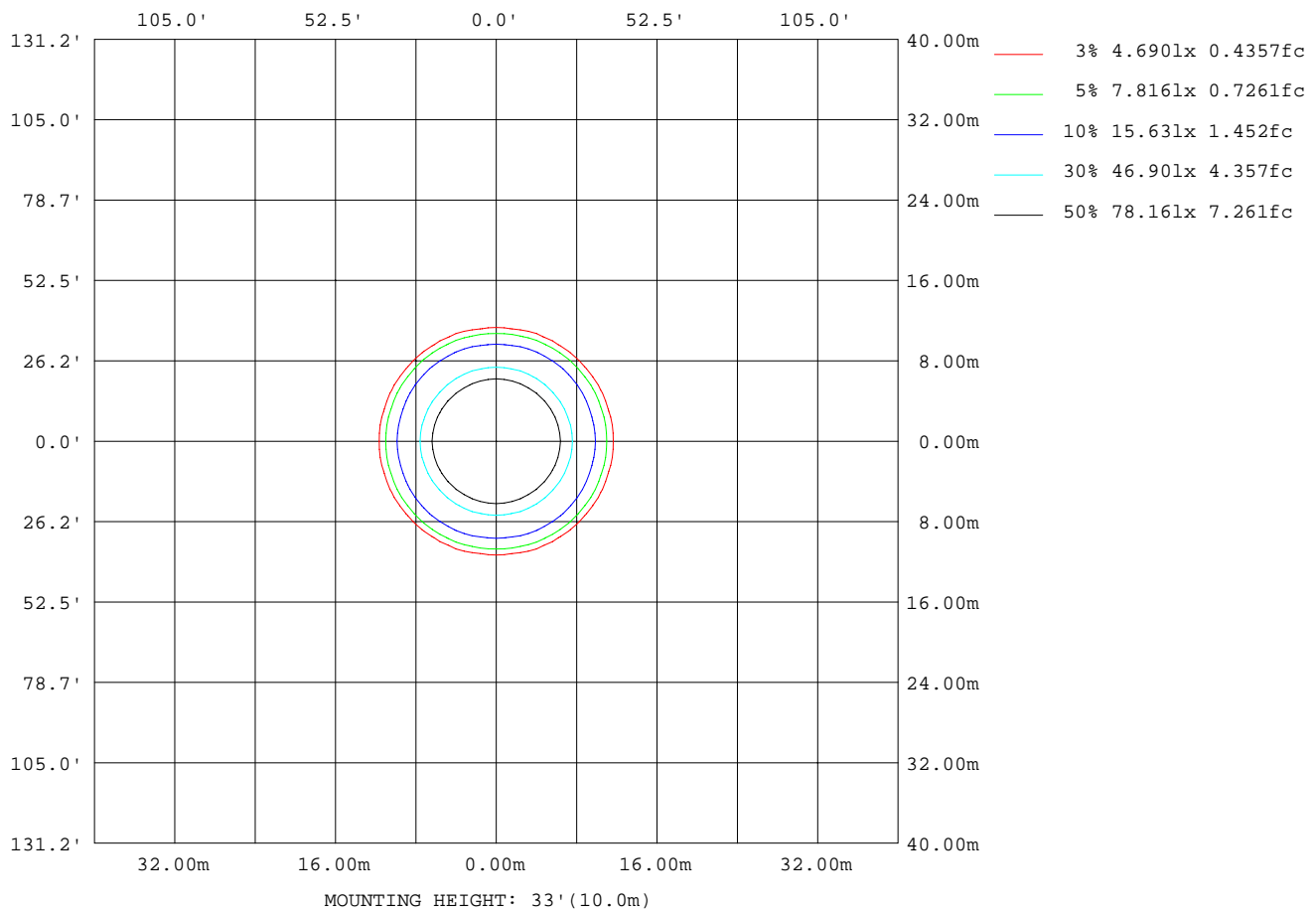
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\Phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi 0.24M$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-90D-PC	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

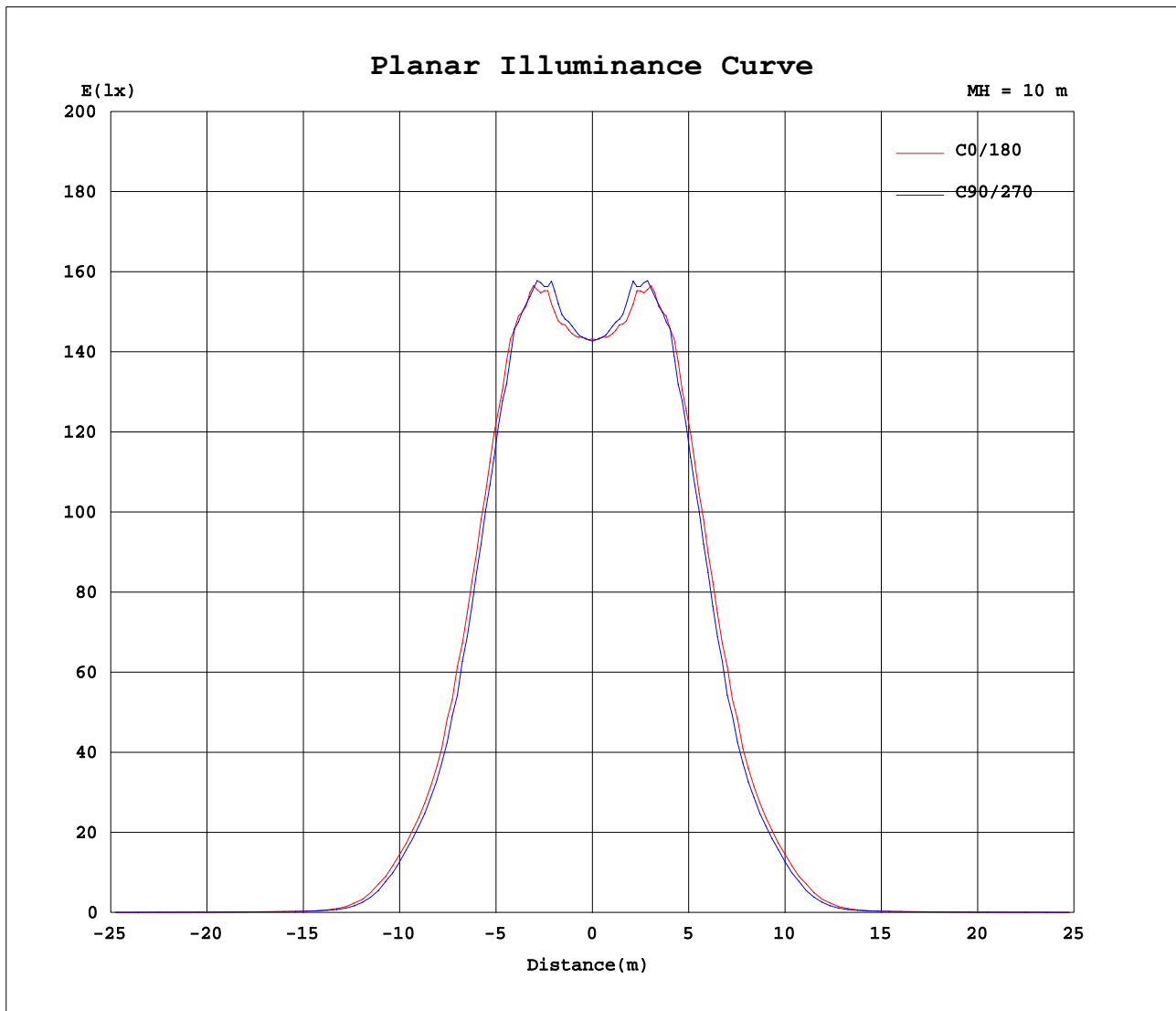
AvgL	cd/m2
L_0~180 (65) av	2949
L_0~180 (75) av	3060
L_0~180 (85) av	5466
L_90~270 (65) av	2788
L_90~270 (75) av	2870
L_90~270 (85) av	5024
L_45 (65) av	2945
L_45 (75) av	2986
L_45 (85) av	5461

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-09

$\gamma$  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: 2018-01-09

$\gamma$  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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-90D-PC	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Table--1

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
5	1453	1456	1460	1462	1465	1466	1469	1470	1474	1474	1474	1470	1469	1466	1465	1462	1460	1456	1453
10	1543	1543	1552	1559	1570	1567	1575	1583	1595	1595	1595	1583	1575	1567	1570	1559	1552	1543	1543
15	1714	1699	1709	1695	1713	1717	1753	1748	1759	1750	1759	1748	1753	1717	1713	1695	1709	1699	1714
20	1803	1797	1826	1856	1824	1788	1780	1845	1817	1812	1817	1845	1780	1788	1824	1856	1826	1797	1803
25	1749	1763	1716	1723	1722	1712	1715	1710	1702	1720	1702	1710	1715	1712	1722	1723	1716	1763	1749
30	1509	1508	1471	1460	1429	1424	1395	1413	1406	1421	1406	1413	1395	1424	1429	1460	1471	1508	1509
35	1116	1096	1079	1069	1045	1044	1009	1009	999	990	999	1009	1009	1044	1045	1069	1079	1096	1116
40	699	703	683	680	665	665	658	670	637	640	637	670	658	665	665	680	683	703	699
45	411	401	392	404	400	395	380	377	363	360	363	377	380	395	400	404	392	401	411
50	128	132	123	126	121	114	112	106	100	99.0	100	106	112	114	121	126	123	132	128
55	25.4	27.1	24.4	26.3	24.3	25.7	23.1	24.0	22.1	21.7	22.1	24.0	23.1	25.7	24.3	26.3	24.4	27.1	25.4
60	15.7	15.8	15.7	15.6	15.7	15.5	15.3	15.2	15.0	14.8	15.0	15.2	15.3	15.5	15.7	15.6	15.7	15.8	15.7
65	12.5	12.5	12.4	12.4	12.5	12.4	12.2	12.1	11.9	11.8	11.9	12.1	12.2	12.4	12.5	12.4	12.4	12.5	12.5
70	9.95	10.0	9.92	9.92	9.86	9.83	9.68	9.65	9.46	9.39	9.46	9.65	9.68	9.83	9.86	9.92	9.92	10.0	9.95
75	7.92	7.96	7.89	7.88	7.76	7.70	7.61	7.60	7.45	7.43	7.45	7.60	7.61	7.70	7.76	7.88	7.89	7.96	7.92
80	6.39	6.42	6.34	6.38	6.29	6.22	6.14	6.19	6.07	6.07	6.07	6.19	6.14	6.22	6.29	6.38	6.34	6.42	6.39
85	4.76	4.83	4.84	4.84	4.79	4.72	4.59	4.55	4.44	4.38	4.44	4.55	4.59	4.72	4.79	4.84	4.84	4.83	4.76
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: 2018-01-09

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:219.9V I:0.7199A P:150.1W PF:0.9571 Freq:49.99Hz Lamp Flux:24107.6x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150WoH-5050-90D-PC									DIM.: $\phi$ 0.319*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.24M						Shielding Angle:		

Table--2

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

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430		
5	1456	1460	1462	1465	1466	1469	1470	1474	1474	1474	1470	1469	1466	1465	1462	1460	1456		
10	1543	1552	1559	1570	1567	1575	1583	1595	1595	1595	1583	1575	1567	1570	1559	1552	1543		
15	1699	1709	1695	1713	1717	1753	1748	1759	1750	1759	1748	1753	1717	1713	1695	1709	1699		
20	1797	1826	1856	1824	1788	1780	1845	1817	1812	1817	1845	1780	1788	1824	1856	1826	1797		
25	1763	1716	1723	1722	1712	1715	1710	1702	1720	1702	1710	1715	1712	1722	1723	1716	1763		
30	1508	1471	1460	1429	1424	1395	1413	1406	1421	1406	1413	1395	1424	1429	1460	1471	1508		
35	1096	1079	1069	1045	1044	1009	1009	999	990	999	1009	1009	1044	1045	1069	1079	1096		
40	703	683	680	665	665	658	670	637	640	637	670	658	665	665	680	683	703		
45	401	392	404	400	395	380	377	363	360	363	377	380	395	400	404	392	401		
50	132	123	126	121	114	112	106	100	99.0	100	106	112	114	121	126	123	132		
55	27.1	24.4	26.3	24.3	25.7	23.1	24.0	22.1	21.7	22.1	24.0	23.1	25.7	24.3	26.3	24.4	27.1		
60	15.8	15.7	15.6	15.7	15.5	15.3	15.2	15.0	14.8	15.0	15.2	15.3	15.5	15.7	15.6	15.7	15.8		
65	12.5	12.4	12.4	12.5	12.4	12.2	12.1	11.9	11.8	11.9	12.1	12.2	12.4	12.5	12.4	12.4	12.5		
70	10.0	9.92	9.92	9.86	9.83	9.68	9.65	9.46	9.39	9.46	9.65	9.68	9.83	9.86	9.92	9.92	10.0		
75	7.96	7.89	7.88	7.76	7.70	7.61	7.60	7.45	7.43	7.45	7.60	7.61	7.70	7.76	7.88	7.89	7.96		
80	6.42	6.34	6.38	6.29	6.22	6.14	6.19	6.07	6.07	6.07	6.19	6.14	6.22	6.29	6.38	6.34	6.42		
85	4.83	4.84	4.84	4.79	4.72	4.59	4.55	4.44	4.38	4.44	4.55	4.59	4.72	4.79	4.84	4.84	4.83		
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: 2018-01-09

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: