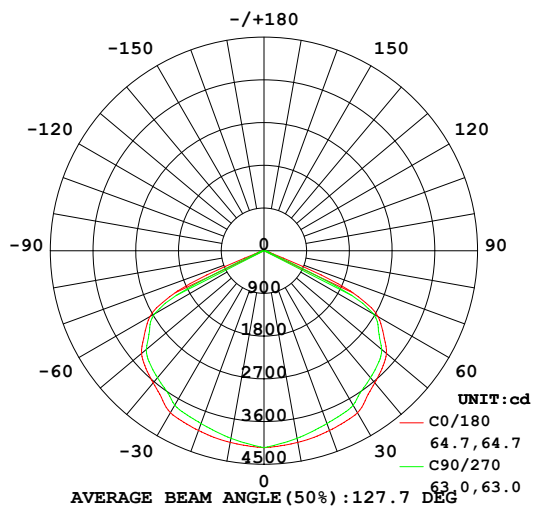


## LUMINAIRE PHOTOMETRIC TEST REPORT

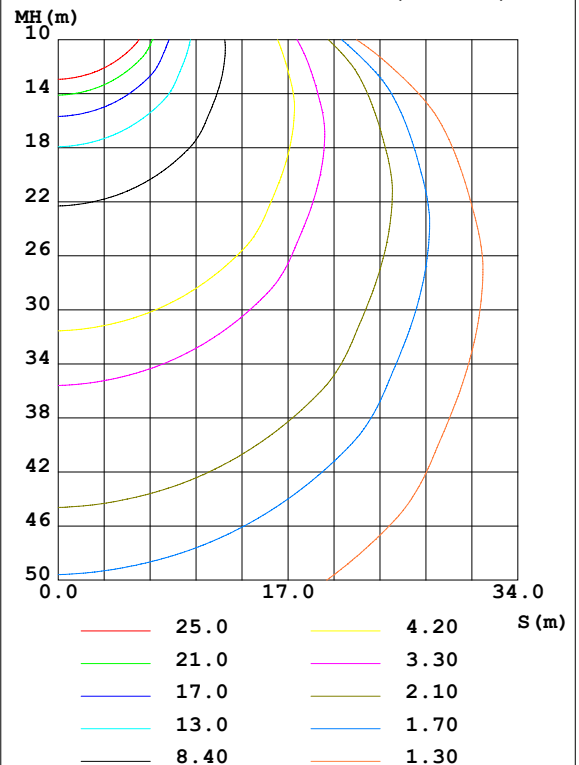
Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.31 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	4148	S/MH (C0/180)	1.40
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.34
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	12719	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	12718.6	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.50

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: 2017-12-28

$\gamma$  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=0.9878]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	4099	4022	4013	4022	4099	4022	4013	4022	0- 10	388.5	388.5	3.05,3.05
20	4031	3891	3875	3891	4031	3891	3875	3891	10- 20	1125	1513	11.9,11.9
30	3943	3785	3758	3785	3943	3785	3758	3785	20- 30	1786	3299	25.9,25.9
40	3632	3514	3492	3514	3632	3514	3492	3514	30- 40	2295	5594	44,44
50	3371	3303	3235	3303	3371	3303	3235	3303	40- 50	2650	8244	64.8,64.8
60	2775	2773	2668	2773	2775	2773	2668	2773	50- 60	2716	10960	86.2,86.2
70	215.9	198.9	159.0	198.9	215.9	198.9	159.0	198.9	60- 70	1615	12575	98.9,98.9
80	61.08	62.10	39.15	62.10	61.08	62.10	39.15	62.10	70- 80	121.4	12696	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	22.55	12719	100,100
100	0	0	0	0	0	0	0	0	90-100	0	12719	100,100
110	0	0	0	0	0	0	0	0	100-110	0	12719	100,100
120	0	0	0	0	0	0	0	0	110-120	0	12719	100,100
130	0	0	0	0	0	0	0	0	120-130	0	12719	100,100
140	0	0	0	0	0	0	0	0	130-140	0	12719	100,100
150	0	0	0	0	0	0	0	0	140-150	0	12719	100,100
160	0	0	0	0	0	0	0	0	150-160	0	12719	100,100
170	0	0	0	0	0	0	0	0	160-170	0	12719	100,100
180	0	0	0	0	0	0	0	0	170-180	0	12719	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6882.4 lm

%lum = 54.1%

%lamp = 54.1%

Conical surface Flux(120deg): 10960 lm

%lum = 86.2%

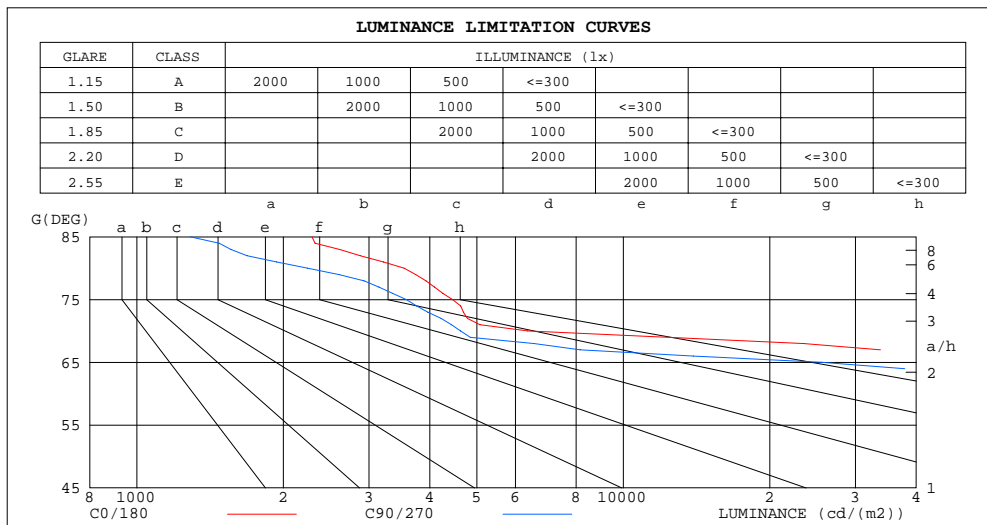
%lamp = 86.2%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

$\gamma$  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=0.9878]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	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	2290	1288
80	3546	2244
75	4455	3579
70	6363	4626
65	47836	25553
60	55944	53093
55	54056	51099
50	52857	50076
45	50098	47680

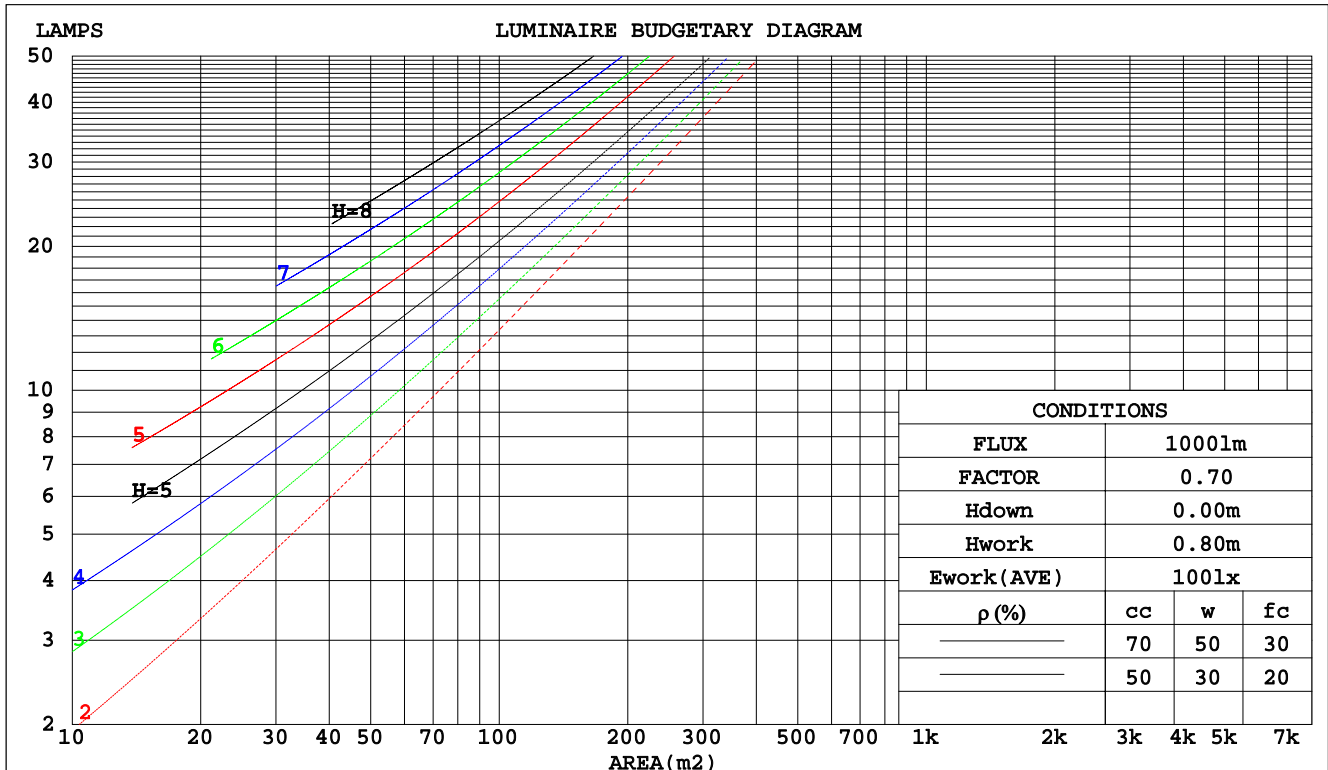
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9878]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	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	1.06	1.02	.99	1.04	1.00	.97	.00	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.93	.87	.81	.91	.85	.80	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.74	.69	.65	.72	.68	.64	.62
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.54	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.57	.48	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.47	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-28

$\gamma$  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=0.9878]  
 Remarks:

## WEC AND CCEC

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	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	.270	.154	.049	.263	.150	.048	.250	.143	.046	.238	.137	.044	.227	.132	.042		
2.0	.267	.146	.045	.261	.144	.044	.250	.139	.043	.239	.134	.042	.229	.130	.041		
3.0	.255	.136	.041	.250	.134	.040	.240	.130	.039	.230	.126	.039	.221	.123	.038		
4.0	.240	.125	.037	.236	.123	.036	.226	.120	.036	.218	.117	.035	.210	.114	.035		
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032		
6.0	.211	.106	.030	.207	.105	.030	.200	.102	.030	.193	.100	.029	.187	.098	.029		
7.0	.197	.098	.028	.194	.097	.028	.188	.095	.027	.181	.093	.027	.176	.091	.027		
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021		

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	.178	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9878]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm												
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG				
SPEC.:AOK-100WoH					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	2H	18.9	20.4	19.2	20.6	20.8	18.7	20.2	18.9	20.4	20.6	
	3H	19.4	20.8	19.7	21.0	21.3	18.7	20.0	19.0	20.3	20.5	
	4H	19.3	20.6	19.6	20.9	21.1	18.6	19.9	18.9	20.1	20.4	
	6H	19.2	20.4	19.5	20.7	21.0	18.5	19.7	18.8	20.0	20.2	
	8H	19.2	20.3	19.5	20.6	20.9	18.4	19.6	18.8	19.9	20.2	
	12H	19.1	20.2	19.5	20.5	20.8	18.4	19.5	18.7	19.8	20.1	
	4H	2H	19.4	20.7	19.7	20.9	21.2	19.2	20.5	19.5	20.7	21.0
		3H	19.8	20.9	20.2	21.2	21.5	19.2	20.3	19.5	20.6	20.9
		4H	19.7	20.7	20.1	21.1	21.4	19.1	20.1	19.4	20.4	20.7
		6H	19.6	20.5	20.0	20.9	21.2	19.0	19.9	19.4	20.2	20.6
		8H	19.6	20.4	20.0	20.8	21.2	18.9	19.8	19.4	20.1	20.5
8H		12H	19.6	20.3	20.0	20.7	21.1	18.9	19.7	19.3	20.0	20.4
	4H	19.6	20.4	20.0	20.8	21.2	19.0	19.8	19.4	20.1	20.5	
		6H	19.5	20.2	20.0	20.6	21.0	18.9	19.6	19.3	20.0	20.4
		8H	19.5	20.1	20.0	20.5	21.0	18.9	19.4	19.3	19.9	20.3
		12H	19.5	20.0	19.9	20.4	20.9	18.8	19.3	19.3	19.8	20.2
	12H	4H	19.6	20.3	20.0	20.7	21.1	18.9	19.7	19.3	20.1	20.5
		6H	19.5	20.1	20.0	20.5	21.0	18.9	19.4	19.3	19.9	20.3
		8H	19.5	20.0	19.9	20.4	20.9	18.8	19.3	19.3	19.8	20.2
	Variations with the observer position at spacings:											
	S = 1.0H	+ 0.4 / - 0.7					+ 0.5 / - 0.7					
1.5H	+ 0.7 / - 0.8					+ 1.3 / - 2.2						
2.0H	+ 0.9 / - 1.9					+ 0.8 / - 1.7						

CIE Pub.117, 12719 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.8$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9878]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

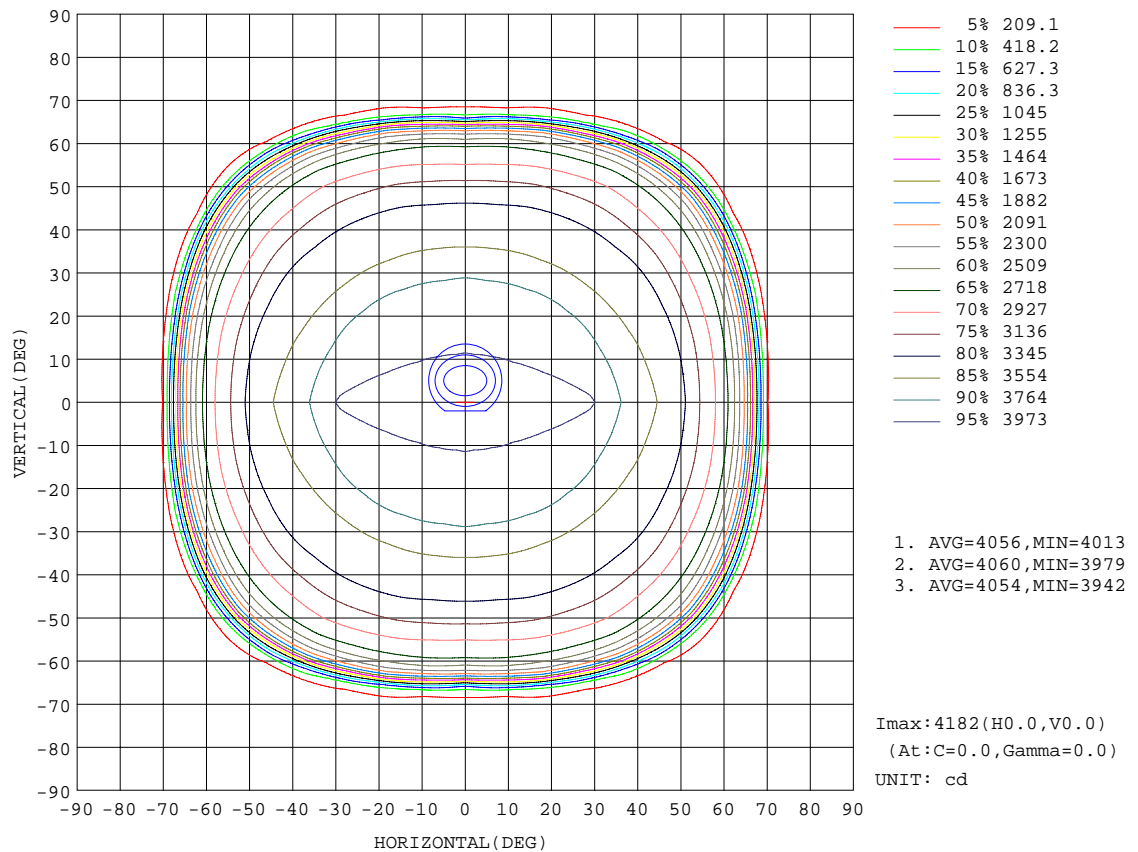
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	67	55	48	66	55	48	64	54	47	40
1.00	77	66	59	76	65	58	73	67	58	51
1.25	85	74	67	83	74	67	80	72	66	59
1.50	90	80	74	88	79	73	85	78	72	65
2.00	97	89	83	95	88	82	92	86	81	73
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	90	82
4.00	108	103	99	105	101	97	101	98	94	86
5.00	110	106	102	108	104	100	103	100	97	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHR <sub>NOM</sub> = 1.25										

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9878]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:



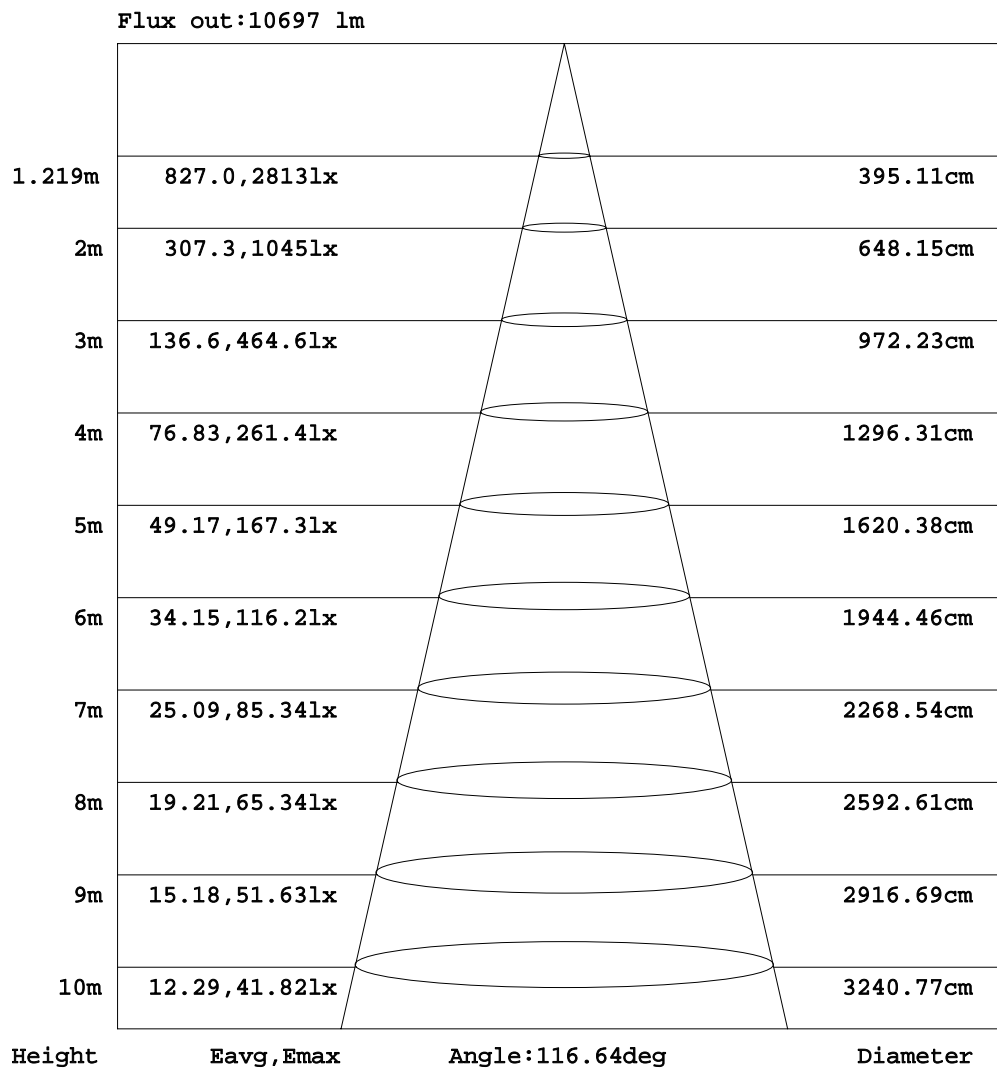
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9878]  
Remarks:



### AAI Figure

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



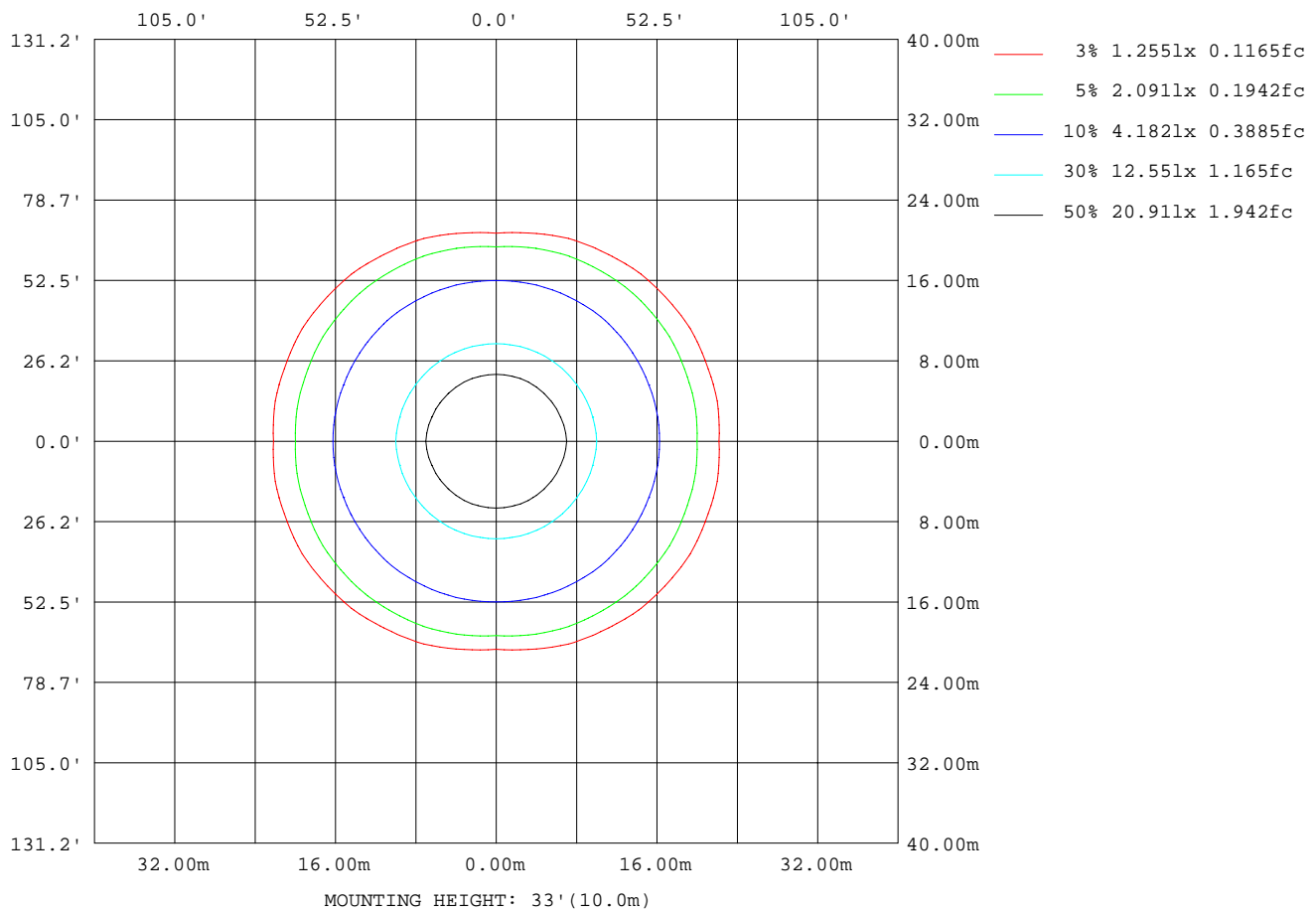
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-28

$\gamma$  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=0.9878]  
Remarks:

### ISOLUX DIAGRAM

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	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:2017-12-28

$\gamma$  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=0.9878]  
Remarks:

## LED Avg.L Report

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

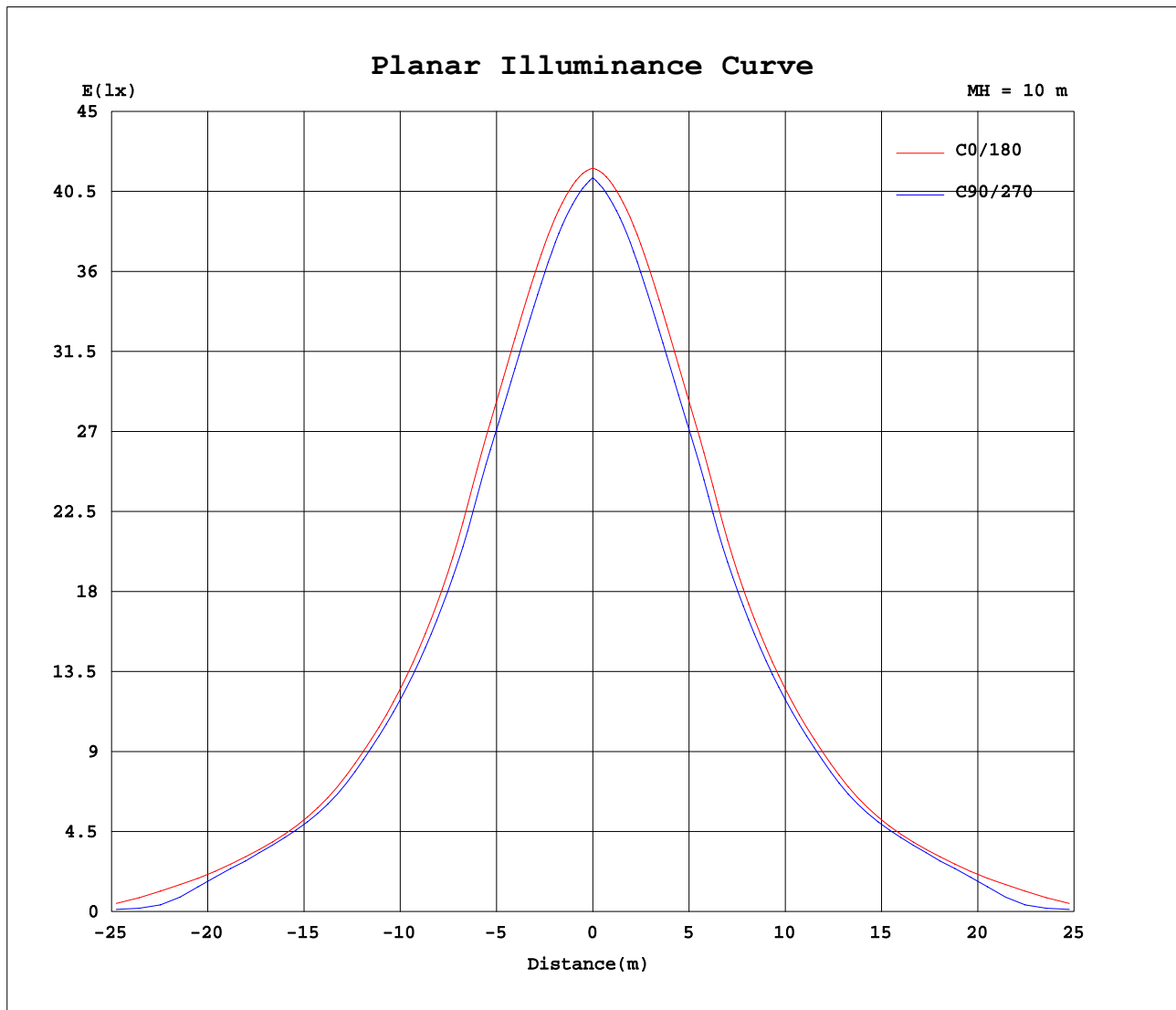
AvgL	cd/m2
L_0~180 (65) av	47455
L_0~180 (75) av	4419
L_0~180 (85) av	2272
L_90~270 (65) av	25680
L_90~270 (75) av	3596
L_90~270 (85) av	1294
L_45 (65) av	47877
L_45 (75) av	4530
L_45 (85) av	2133

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9878]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-28

$\gamma$  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=0.9878]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	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	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148
5	4125	4113	4102	4092	4086	4079	4076	4073	4074	4076	4074	4073	4076	4079	4086	4092	4102	4113	4125
10	4099	4076	4056	4039	4027	4017	4011	4008	4009	4013	4009	4008	4011	4017	4027	4039	4056	4076	4099
15	4069	4038	4007	3983	3964	3951	3942	3937	3936	3940	3936	3937	3942	3951	3964	3983	4007	4038	4069
20	4031	3991	3953	3922	3899	3884	3873	3868	3868	3875	3868	3868	3873	3884	3899	3922	3953	3991	4031
25	3989	3944	3900	3868	3843	3828	3818	3813	3814	3821	3814	3813	3818	3828	3843	3868	3900	3944	3989
30	3943	3895	3850	3818	3792	3778	3768	3763	3759	3758	3759	3763	3768	3778	3792	3818	3850	3895	3943
35	3770	3731	3687	3660	3633	3626	3612	3604	3598	3593	3598	3604	3612	3626	3633	3660	3687	3731	3770
40	3632	3599	3559	3537	3520	3509	3500	3499	3491	3492	3491	3499	3500	3509	3520	3537	3559	3599	3632
45	3514	3481	3455	3439	3418	3413	3408	3399	3390	3388	3390	3399	3408	3413	3418	3439	3455	3481	3514
50	3371	3354	3327	3318	3305	3300	3283	3272	3246	3235	3246	3272	3283	3300	3305	3318	3327	3354	3371
55	3076	3084	3063	3052	3032	3032	3025	3005	2964	2946	2964	3005	3025	3032	3032	3052	3063	3084	3076
60	2775	2783	2772	2770	2773	2773	2735	2718	2707	2668	2707	2718	2735	2773	2773	2770	2772	2783	2775
65	2006	2079	2061	2100	2041	1991	1815	1683	1357	1085	1357	1683	1815	1991	2041	2100	2061	2079	2006
70	216	336	226	296	204	193	181	174	165	159	165	174	181	193	204	296	226	336	216
75	114	118	118	120	118	116	111	106	97.9	93.1	97.9	106	111	116	118	120	118	118	114
80	61.1	63.3	63.1	65.0	63.0	61.2	54.8	50.2	43.3	39.2	43.3	50.2	54.8	61.2	63.0	65.0	63.1	63.3	61.1
85	19.8	20.4	19.9	19.8	18.8	18.3	16.5	15.3	12.9	11.3	12.9	15.3	16.5	18.3	18.8	19.8	19.9	20.4	19.8
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:2017-12-28

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=0.9878]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.5152A P:97.60W PF:0.9860 Freq:49.99Hz Lamp Flux:12718.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-100WoH	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	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148	4148		
5	4113	4102	4092	4086	4079	4076	4073	4074	4076	4074	4073	4076	4079	4086	4092	4102	4113		
10	4076	4056	4039	4027	4017	4011	4008	4009	4013	4009	4008	4011	4017	4027	4039	4056	4076		
15	4038	4007	3983	3964	3951	3942	3937	3936	3940	3936	3937	3942	3951	3964	3983	4007	4038		
20	3991	3953	3922	3899	3884	3873	3868	3868	3875	3868	3868	3873	3884	3899	3922	3953	3991		
25	3944	3900	3868	3843	3828	3818	3813	3814	3821	3814	3813	3818	3828	3843	3868	3900	3944		
30	3895	3850	3818	3792	3778	3768	3763	3759	3758	3759	3763	3768	3778	3792	3818	3850	3895		
35	3731	3687	3660	3633	3626	3612	3604	3598	3593	3598	3604	3612	3626	3633	3660	3687	3731		
40	3599	3559	3537	3520	3509	3500	3499	3491	3492	3491	3499	3500	3509	3520	3537	3559	3599		
45	3481	3455	3439	3418	3413	3408	3399	3390	3388	3390	3399	3408	3413	3418	3439	3455	3481		
50	3354	3327	3318	3305	3300	3283	3272	3246	3235	3246	3272	3283	3300	3305	3318	3327	3354		
55	3084	3063	3052	3032	3032	3025	3005	2964	2946	2964	3005	3025	3032	3032	3052	3063	3084		
60	2783	2772	2770	2773	2773	2735	2718	2707	2668	2707	2718	2735	2773	2773	2770	2772	2783		
65	2079	2061	2100	2041	1991	1815	1683	1357	1085	1357	1683	1815	1991	2041	2100	2061	2079		
70	336	226	296	204	193	181	174	165	159	165	174	181	193	204	296	226	336		
75	118	118	120	118	116	111	106	97.9	93.1	97.9	106	111	116	118	120	118	118		
80	63.3	63.1	65.0	63.0	61.2	54.8	50.2	43.3	39.2	43.3	50.2	54.8	61.2	63.0	65.0	63.1	63.3		
85	20.4	19.9	19.8	18.8	18.3	16.5	15.3	12.9	11.3	12.9	15.3	16.5	18.3	18.8	19.8	19.9	20.4		
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:2017-12-28

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=0.9878]  
 Remarks: