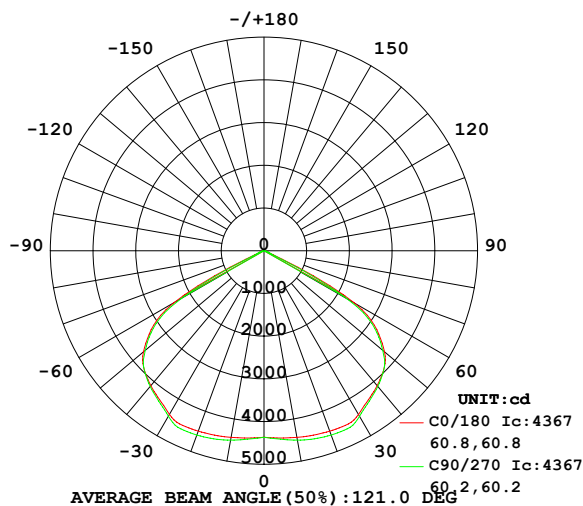


## LUMINAIRE PHOTOMETRIC TEST REPORT

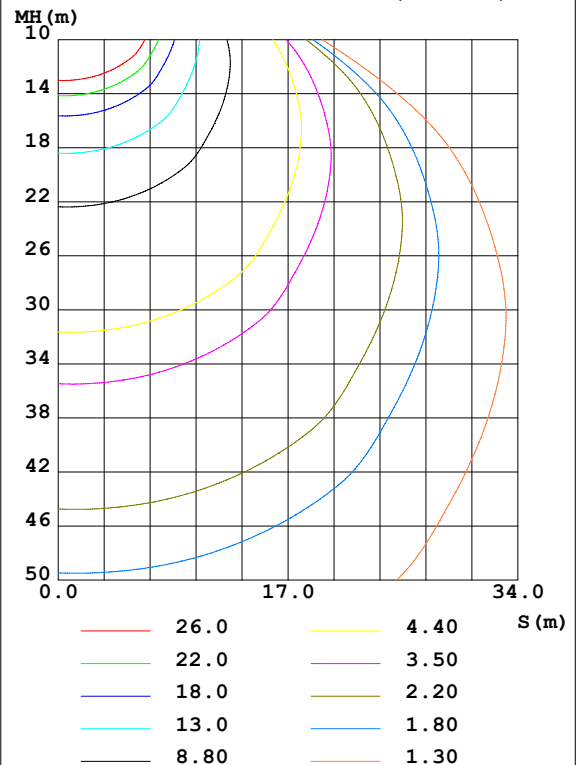
Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100Woh-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.14M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.89 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	4616	S/MH (C0/180)	1.49
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.50
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	13211	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	13211.1	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [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	4436	4495	4501	4495	4436	4495	4501	4495	0- 10	424.3	424.3	3.21,3.21
20	4494	4582	4592	4582	4494	4582	4592	4582	10- 20	1286	1710	12.9,12.9
30	4425	4487	4472	4487	4425	4487	4472	4487	20- 30	2111	3821	28.9,28.9
40	4122	4160	4146	4160	4122	4160	4146	4160	30- 40	2700	6521	49.4,49.4
50	3684	3664	3629	3664	3684	3664	3629	3664	40- 50	3056	9577	72.5,72.5
60	2435	2316	2249	2316	2435	2316	2249	2316	50- 60	2796	12373	93.7,93.7
70	113.3	107.8	108.5	107.8	113.3	107.8	108.5	107.8	60- 70	765.0	13138	99.4,99.4
80	25.50	23.81	21.57	23.81	25.50	23.81	21.57	23.81	70- 80	65.32	13204	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	7.548	13211	100,100
100	0	0	0	0	0	0	0	0	90-100	0	13211	100,100
110	0	0	0	0	0	0	0	0	100-110	0	13211	100,100
120	0	0	0	0	0	0	0	0	110-120	0	13211	100,100
130	0	0	0	0	0	0	0	0	120-130	0	13211	100,100
140	0	0	0	0	0	0	0	0	130-140	0	13211	100,100
150	0	0	0	0	0	0	0	0	140-150	0	13211	100,100
160	0	0	0	0	0	0	0	0	150-160	0	13211	100,100
170	0	0	0	0	0	0	0	0	160-170	0	13211	100,100
180	0	0	0	0	0	0	0	0	170-180	0	13211	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 8026.5 lm

%lum = 60.8%

%lamp = 60.8%

Conical surface Flux(120deg): 12373 lm

%lum = 93.7%

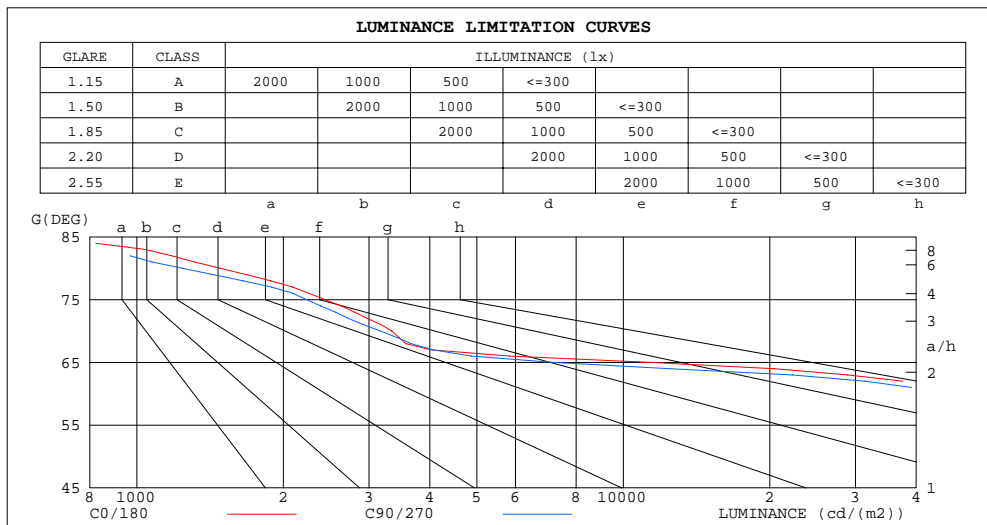
%lamp = 93.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.684m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.14M	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	484	211
80	1481	1238
75	2436	2231
70	3342	3162
65	11272	7127
60	49119	44812
55	56708	55020
50	57789	56259
45	56451	55800

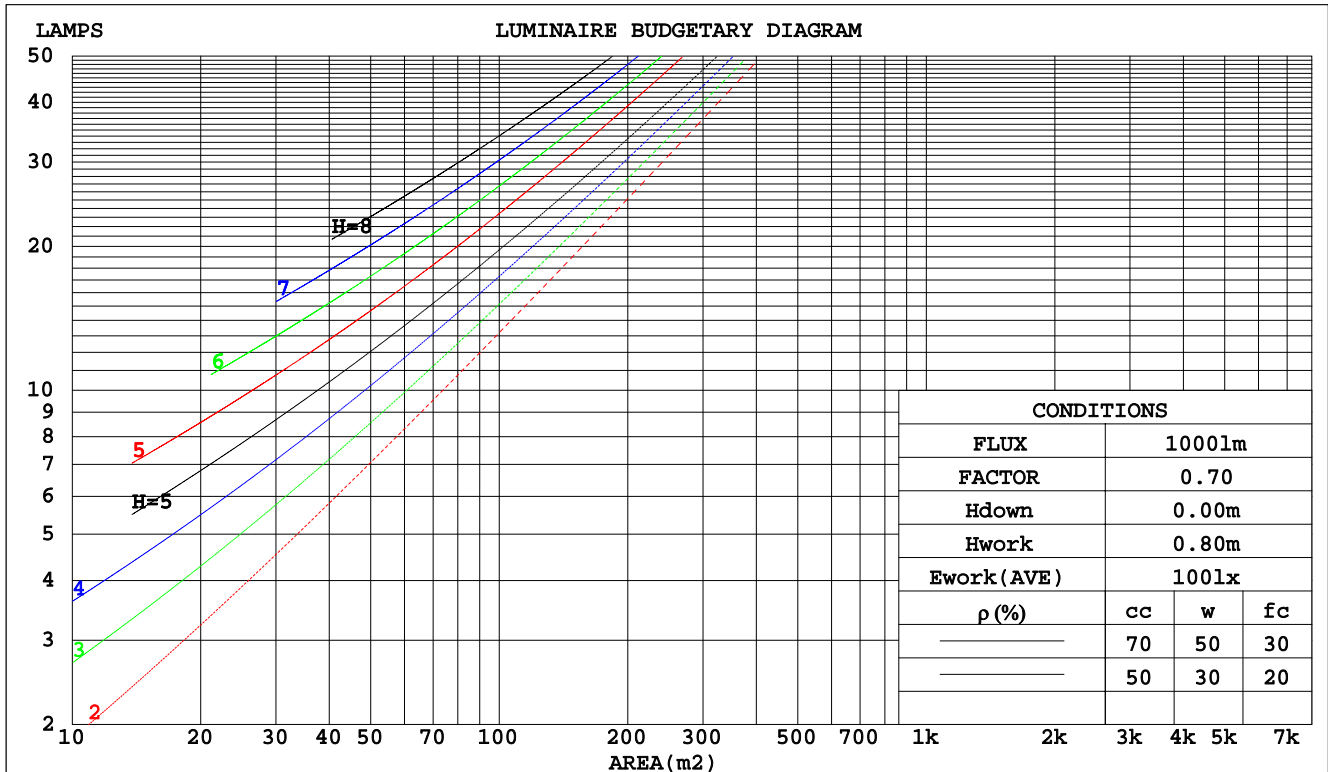
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.14M	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	1.07	1.04	1.00	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.87	.83	.80	.84	.81	.78	.76
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.69	.77	.72	.68	.75	.71	.67	.65
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.52	.66	.58	.52	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49
6.0	.60	.52	.46	.59	.51	.45	.58	.50	.45	.56	.50	.45	.54	.49	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.44	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.48	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.45	.37	.32	.45	.37	.32	.44	.37	.32	.42	.36	.31	.41	.36	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.27



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.684m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.14M	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	.250	.142	.045	.243	.138	.044	.230	.132	.042	.218	.126	.040	.207	.120	.039		
2.0	.248	.136	.042	.242	.133	.041	.231	.128	.040	.220	.123	.039	.211	.119	.038		
3.0	.238	.127	.038	.233	.125	.038	.223	.121	.037	.214	.117	.036	.205	.114	.035		
4.0	.226	.118	.035	.222	.116	.034	.213	.113	.034	.205	.110	.033	.197	.107	.033		
5.0	.214	.109	.032	.210	.108	.031	.202	.105	.031	.194	.103	.031	.188	.100	.030		
6.0	.201	.101	.029	.198	.100	.029	.191	.098	.028	.184	.096	.028	.178	.094	.028		
7.0	.190	.094	.027	.186	.093	.026	.180	.091	.026	.174	.089	.026	.169	.088	.026		
8.0	.179	.087	.025	.176	.087	.024	.170	.085	.024	.165	.084	.024	.160	.082	.024		
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022		
10.0	.160	.077	.021	.157	.076	.021	.153	.075	.021	.148	.074	.021	.144	.072	.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	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.050	.124	.078	.043	.085	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.138	.082	.041	.119	.071	.036	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.078	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:2.9KG			
SPEC.:AOK-100WoH-3030-120D					DIM.: 0.248*0.138M			SERIAL No.:1			
MFR.: AOK					SUR.:±0.14M			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		18.1	19.6	18.4	19.8	20.0	17.9	19.3	18.2	19.5	19.7
	3H	18.0	19.3	18.3	19.5	19.7	17.7	19.0	18.0	19.3	19.5
	4H	17.9	19.1	18.2	19.3	19.6	17.6	18.9	17.9	19.1	19.3
	6H	17.8	18.9	18.1	19.2	19.5	17.5	18.7	17.9	18.9	19.2
	8H	17.7	18.8	18.1	19.1	19.4	17.5	18.6	17.8	18.9	19.1
	12H	17.7	18.7	18.0	19.0	19.3	17.4	18.5	17.8	18.8	19.1
4H	2H	18.2	19.5	18.5	19.7	19.9	18.0	19.2	18.3	19.5	19.7
	3H	18.1	19.1	18.4	19.4	19.7	17.8	18.9	18.2	19.2	19.5
	4H	18.0	18.9	18.3	19.2	19.6	17.8	18.7	18.1	19.0	19.3
	6H	17.9	18.7	18.3	19.1	19.4	17.7	18.5	18.1	18.8	19.2
	8H	17.8	18.6	18.2	19.0	19.3	17.6	18.4	18.0	18.7	19.1
	12H	17.8	18.5	18.2	18.9	19.3	17.6	18.3	18.0	18.7	19.1
8H	4H	17.8	18.6	18.2	19.0	19.3	17.6	18.4	18.0	18.7	19.1
	6H	17.8	18.4	18.2	18.8	19.2	17.5	18.2	18.0	18.6	19.0
	8H	17.7	18.3	18.2	18.7	19.1	17.5	18.0	18.0	18.5	18.9
	12H	17.7	18.1	18.2	18.6	19.1	17.5	17.9	17.9	18.4	18.8
12H	4H	17.8	18.5	18.2	18.9	19.3	17.6	18.3	18.0	18.7	19.1
	6H	17.7	18.3	18.2	18.7	19.1	17.5	18.0	18.0	18.5	18.9
	8H	17.7	18.1	18.2	18.6	19.1	17.5	17.9	17.9	18.4	18.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.4					+ 0.4 / - 0.5					
1.5H	+ 1.3 / - 2.1					+ 1.3 / - 2.1					
2.0H	+ 1.0 / - 4.5					+ 1.0 / - 6.0					

CIE Pub.117, 13211 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 9.0$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.14M	Shielding Angle:

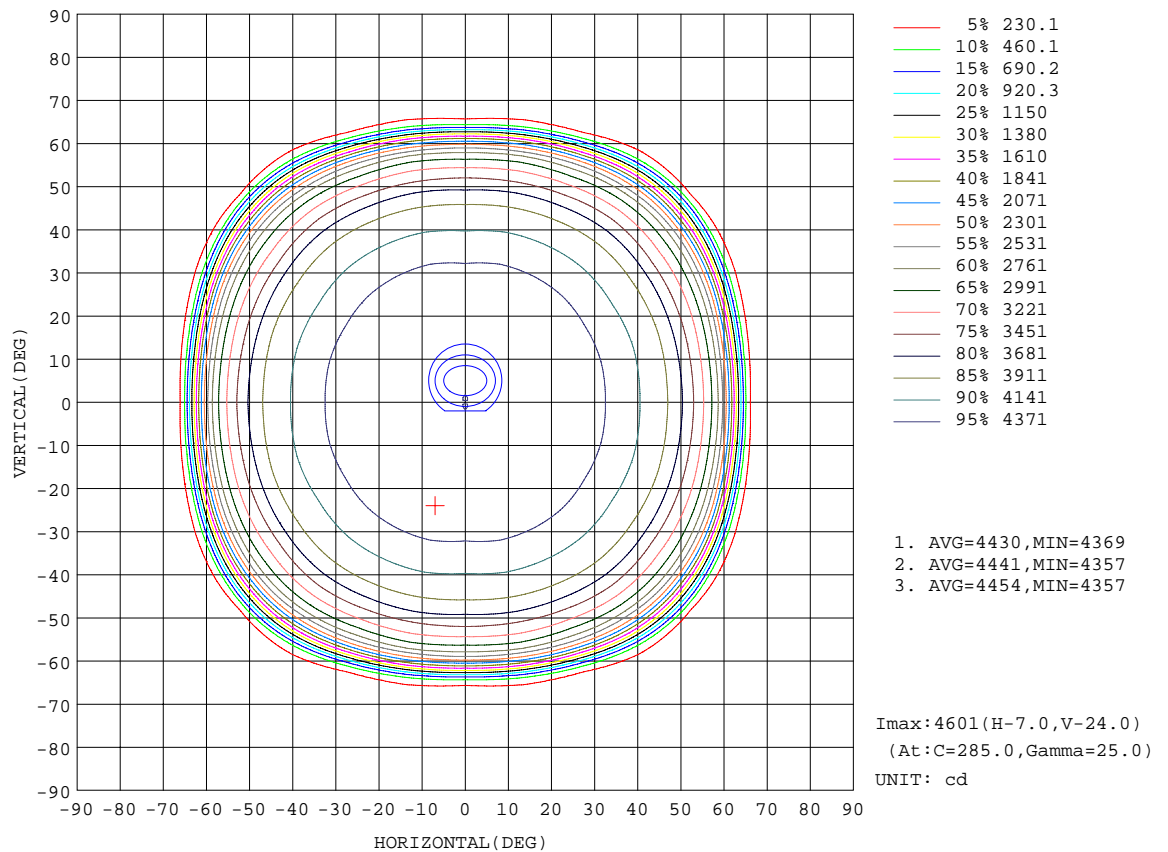
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	70	59	52	69	59	52	67	58	51	45
1.00	80	70	63	79	69	63	77	71	62	56
1.25	88	78	72	86	78	72	84	76	71	64
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	92	87	98	91	86	94	89	85	78
2.50	103	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	100	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	110	106	103	108	104	101	104	101	98	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: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.14M	Shielding Angle:



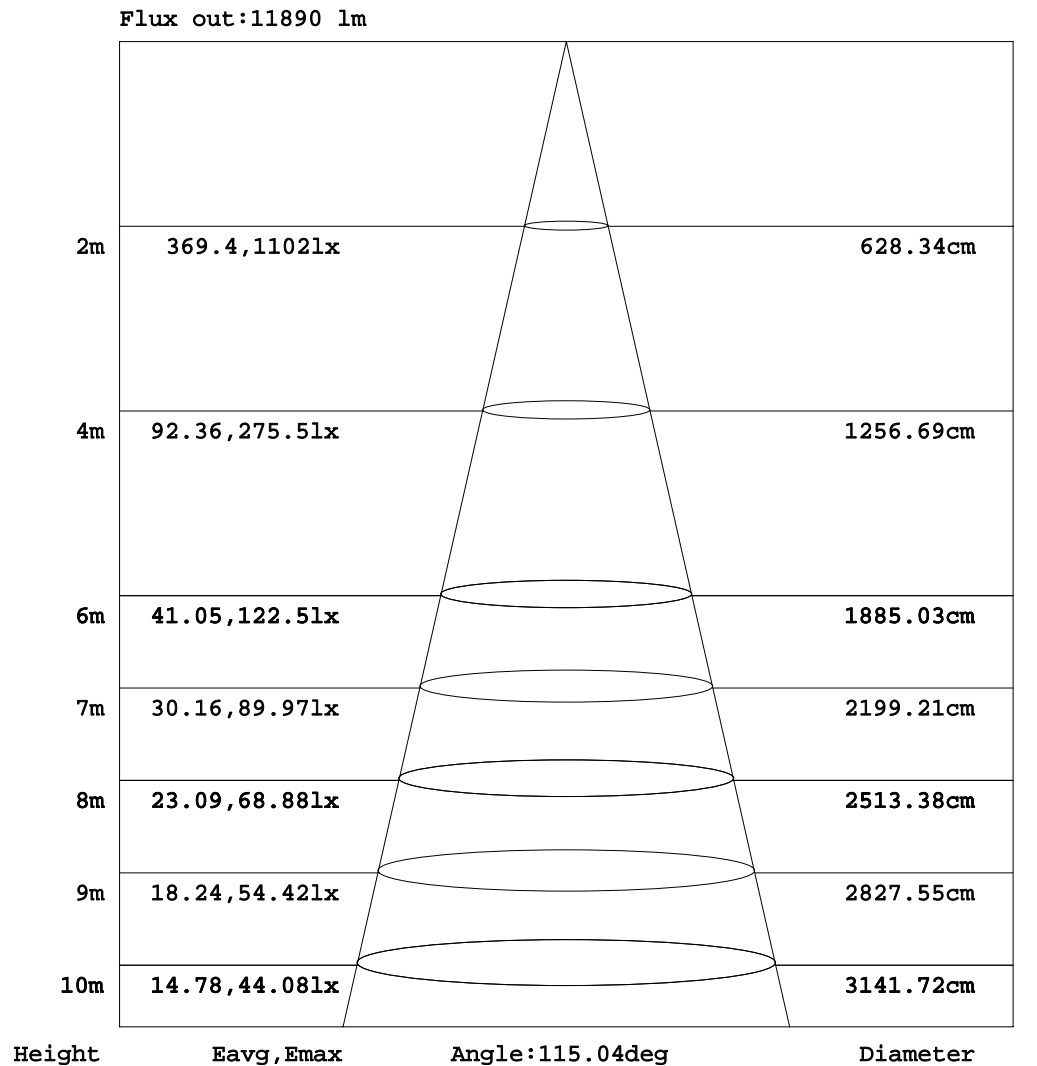
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.14M	Shielding Angle:



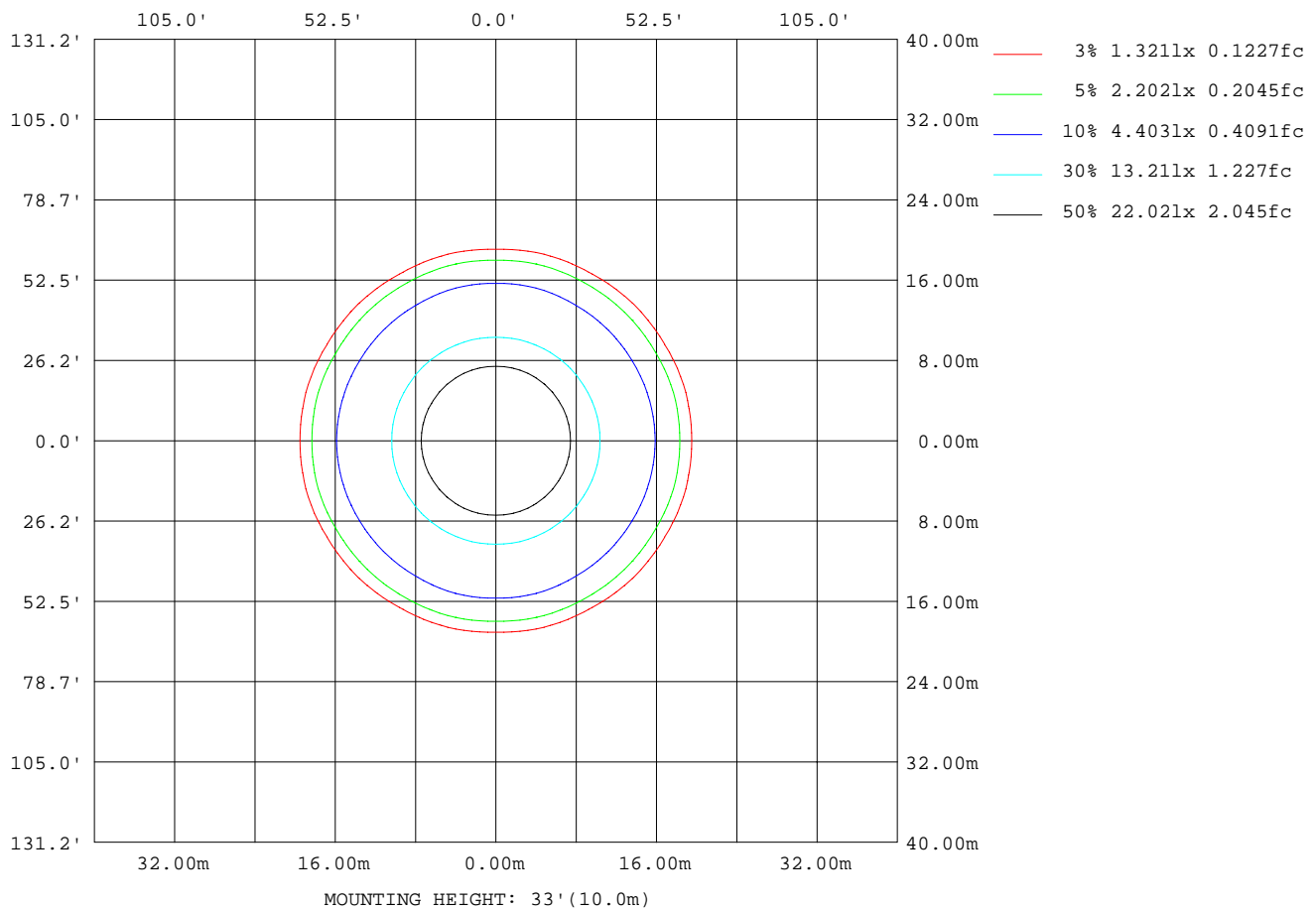
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360 DEG  
 C Interval: 15.0 DEG  
 Test Speed: HIGH  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2018-10-18

γ Range: 0 - 180 DEG  
 γ Interval: 1.0 DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.684m [K=1.0000]  
 Remarks:

### ISOLUX DIAGRAM

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.14M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.14M	Shielding Angle:

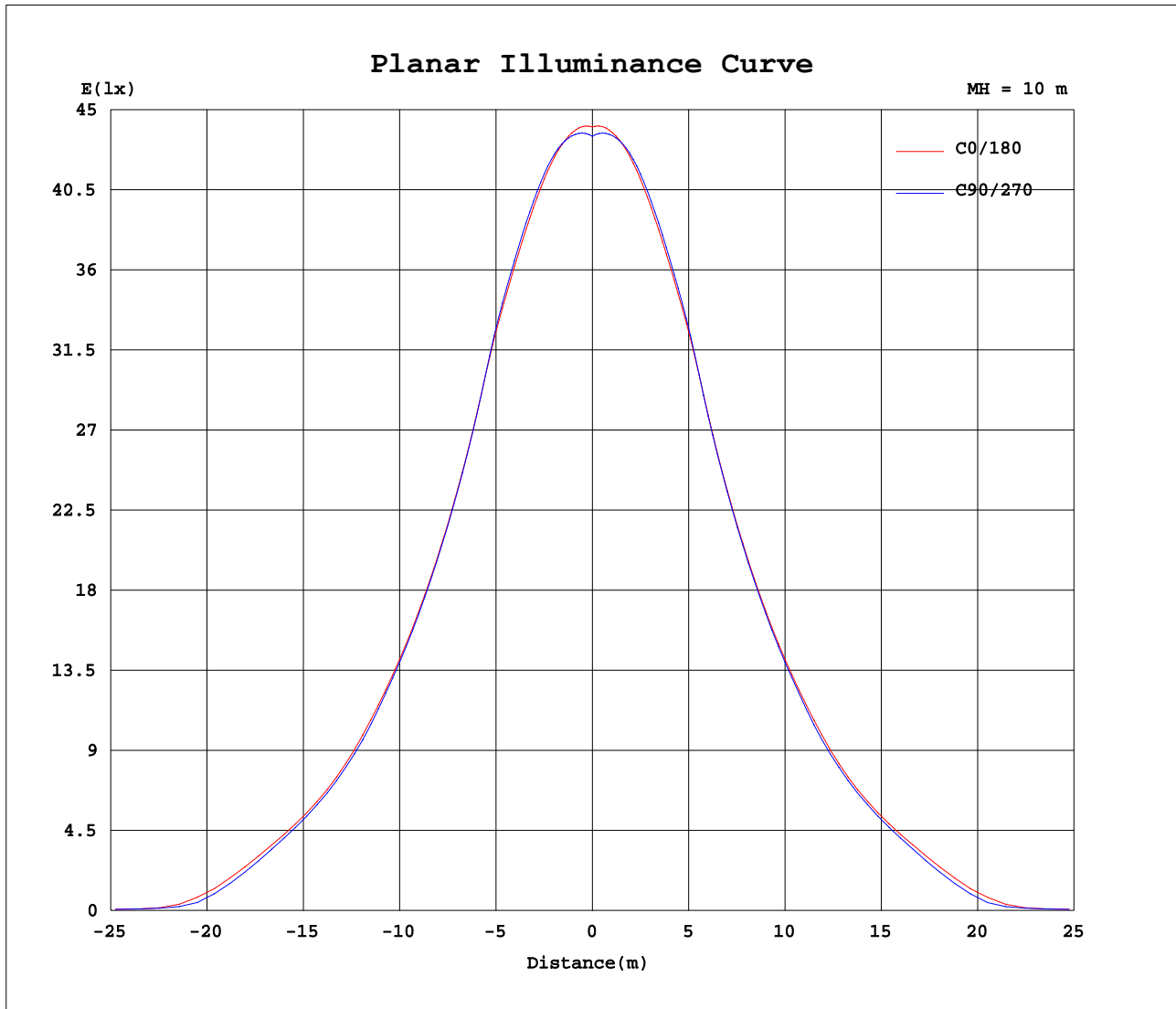
AvgL	cd/m2
L_0~180 (65) av	11178
L_0~180 (75) av	2416
L_0~180 (85) av	480
L_90~270 (65) av	7153
L_90~270 (75) av	2239
L_90~270 (85) av	212
L_45 (65) av	10019
L_45 (75) av	2309
L_45 (85) av	393

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.684m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.14M	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367	4367
5	4399	4414	4422	4431	4433	4433	4428	4433	4433	4431	4422	4414	4399	4414	4422	4431	4433	4433	4428
10	4436	4462	4479	4495	4504	4506	4501	4506	4504	4495	4479	4462	4436	4462	4479	4495	4504	4506	4501
15	4468	4503	4525	4546	4560	4564	4558	4564	4560	4546	4525	4503	4468	4503	4525	4546	4560	4564	4558
20	4494	4531	4557	4582	4597	4602	4592	4602	4597	4582	4557	4531	4494	4531	4557	4582	4597	4602	4592
25	4510	4549	4572	4597	4611	4616	4603	4616	4611	4597	4572	4549	4510	4549	4572	4597	4611	4616	4603
30	4425	4456	4465	4487	4492	4495	4472	4495	4492	4487	4465	4456	4425	4456	4465	4487	4492	4495	4472
35	4261	4286	4294	4312	4316	4319	4297	4319	4316	4312	4294	4286	4261	4286	4294	4312	4316	4319	4297
40	4122	4145	4145	4160	4162	4166	4146	4166	4162	4160	4145	4145	4122	4145	4145	4160	4162	4166	4146
45	3958	3973	3969	3982	3975	3976	3960	3976	3975	3982	3969	3973	3958	3973	3969	3982	3975	3976	3960
50	3684	3676	3653	3664	3645	3655	3629	3655	3645	3664	3653	3676	3684	3676	3653	3664	3645	3655	3629
55	3225	3222	3173	3178	3161	3193	3167	3193	3161	3178	3173	3222	3225	3222	3173	3178	3161	3193	3167
60	2435	2433	2341	2316	2284	2295	2249	2295	2284	2316	2341	2433	2435	2433	2341	2316	2284	2295	2249
65	472	491	432	423	354	349	302	349	354	423	432	491	472	491	432	423	354	349	302
70	113	110	107	108	108	111	109	111	108	108	107	110	113	110	107	108	108	111	109
75	62.5	61.2	59.0	59.7	58.8	59.9	58.0	59.9	58.8	59.7	59.0	61.2	62.5	61.2	59.0	59.7	58.8	59.9	58.0
80	25.5	26.0	24.2	23.8	22.5	22.8	21.6	22.8	22.5	23.8	24.2	26.0	25.5	26.0	24.2	23.8	22.5	22.8	21.6
85	4.18	4.40	3.48	3.43	2.52	2.51	1.85	2.51	2.52	3.43	3.48	4.40	4.18	4.40	3.48	3.43	2.52	2.51	1.85
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: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.4639A P:100.9W PF:0.9853 Freq:49.99Hz Lamp Flux:13211.1x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-100WoH-3030-120D	DIM.: 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.14M	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	4367	4367	4367	4367	4367														
5	4433	4433	4431	4422	4414														
10	4506	4504	4495	4479	4462														
15	4564	4560	4546	4525	4503														
20	4602	4597	4582	4557	4531														
25	4616	4611	4597	4572	4549														
30	4495	4492	4487	4465	4456														
35	4319	4316	4312	4294	4286														
40	4166	4162	4160	4145	4145														
45	3976	3975	3982	3969	3973														
50	3655	3645	3664	3653	3676														
55	3193	3161	3178	3173	3222														
60	2295	2284	2316	2341	2433														
65	349	354	423	432	491														
70	111	108	108	107	110														
75	59.9	58.8	59.7	59.0	61.2														
80	22.8	22.5	23.8	24.2	26.0														
85	2.51	2.52	3.43	3.48	4.40														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks: