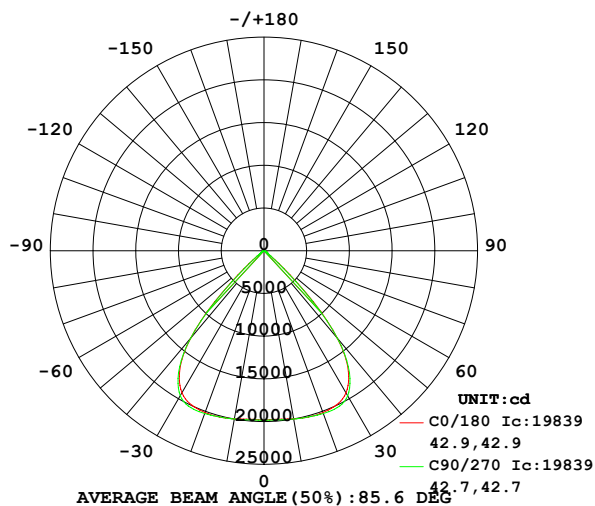


## LUMINAIRE PHOTOMETRIC TEST REPORT

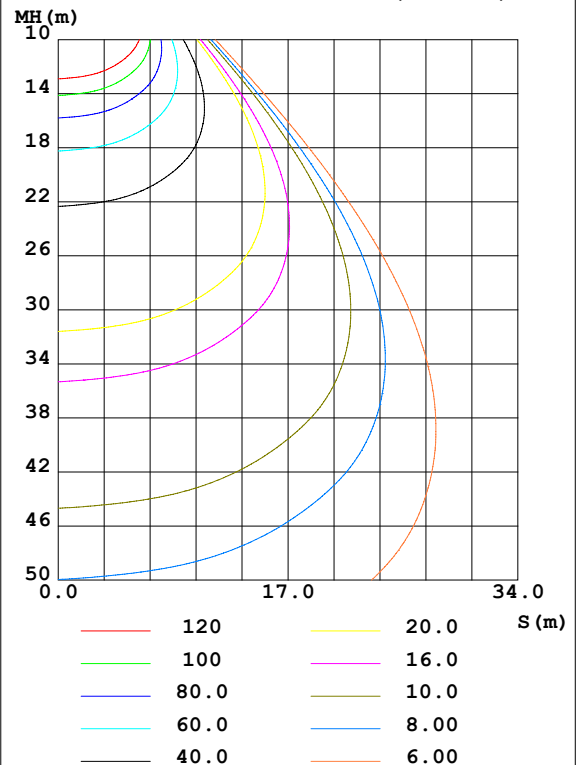
Test:U:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm					
NAME: AOK oH		TYPE:LED		WEIGHT:6KG	
SPEC.:AOK-240Woh-3030-90D		DIM.: 0.4*0.141M		SERIAL No.:1	
MFR.: AOK		SUR.:φ0.29M		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.39 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	20311	S/MH (C0/180)	1.25
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	34291	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	34290.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.30

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: 2018-10-19

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	1997	1990	2000	1990	1997	1990	2000	1990	0- 10	1894	1894	5.52,5.52
20	2016	2020	2028	2020	2016	2020	2028	2020	10- 20	5699	7593	22.1,22.1
30	1920	1966	1960	1966	1920	1966	1960	1966	20- 30	9275	16868	49.2,49.2
40	1336	1385	1336	1385	1336	1385	1336	1385	30- 40	10780	27648	80.6,80.6
50	173.9	179.9	165.4	179.9	173.9	179.9	165.4	179.9	40- 50	5423	33071	96.4,96.4
60	41.68	42.28	41.22	42.28	41.68	42.28	41.22	42.28	50- 60	682.7	33753	98.4,98.4
70	24.78	24.43	24.46	24.43	24.78	24.43	24.46	24.43	60- 70	323.4	34077	99.4,99.4
80	10.62	9.945	9.892	9.945	10.62	9.945	9.892	9.945	70- 80	185.9	34263	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	28.21	34291	100,100
100	0	0	0	0	0	0	0	0	90-100	0	34291	100,100
110	0	0	0	0	0	0	0	0	100-110	0	34291	100,100
120	0	0	0	0	0	0	0	0	110-120	0	34291	100,100
130	0	0	0	0	0	0	0	0	120-130	0	34291	100,100
140	0	0	0	0	0	0	0	0	130-140	0	34291	100,100
150	0	0	0	0	0	0	0	0	140-150	0	34291	100,100
160	0	0	0	0	0	0	0	0	150-160	0	34291	100,100
170	0	0	0	0	0	0	0	0	160-170	0	34291	100,100
180	0	0	0	0	0	0	0	0	170-180	0	34291	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 31509 lm

%lum = 91.9%

%lamp = 91.9%

Conical surface Flux(120deg): 33753 lm

%lum = 98.4%

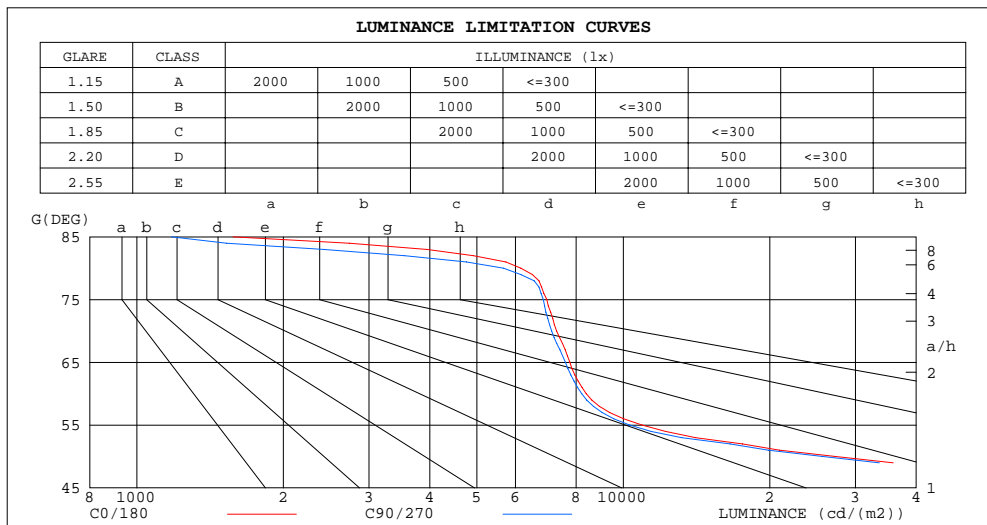
%lamp = 98.4%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-19

$\gamma$  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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240Woh-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.29M	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1577	1178
80	6156	5674
75	6962	6846
70	7290	7123
65	7762	7603
60	8389	8211
55	10929	10301
50	27217	25636
45	98164	92786

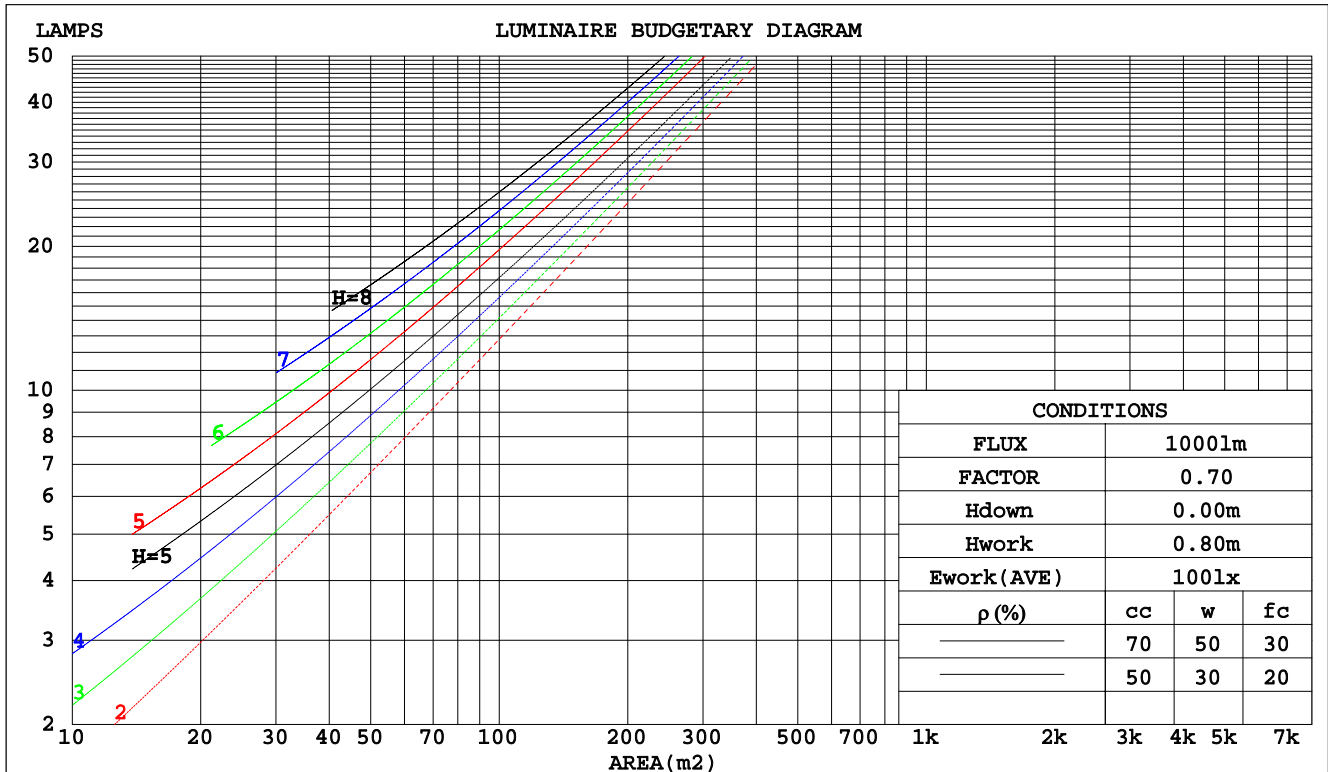
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.29M	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	1.09	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.00	.96	.92	.98	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.86	.81	.90	.85	.81	.88	.83	.79	.85	.81	.78	.83	.80	.77	.75
4.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.74	.71	.77	.73	.70	.68
5.0	.78	.71	.66	.77	.70	.65	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62
6.0	.71	.65	.60	.71	.64	.59	.69	.63	.59	.68	.62	.58	.66	.62	.58	.56
7.0	.66	.59	.54	.65	.59	.54	.64	.58	.54	.63	.57	.53	.61	.57	.53	.51
8.0	.61	.54	.49	.61	.54	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.47
9.0	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.43
10.0	.53	.46	.42	.52	.46	.42	.52	.46	.42	.51	.45	.41	.50	.45	.41	.40



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm					
NAME: AOK oH			TYPE:LED		WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D			DIM.: 0.4*0.141M		SERIAL No.:1
MFR.: AOK			SUR.:φ0.29M		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	.204	.116	.037	.197	.112	.036	.184	.106	.034	.173	.100	.032	.162	.094	.030	
2.0	.198	.109	.033	.192	.106	.033	.181	.101	.031	.171	.096	.030	.162	.092	.029	
3.0	.190	.101	.030	.185	.099	.030	.176	.095	.029	.167	.091	.028	.159	.088	.027	
4.0	.181	.094	.028	.177	.093	.027	.169	.090	.027	.161	.087	.026	.154	.084	.026	
5.0	.173	.088	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024	.149	.080	.024	
6.0	.165	.083	.024	.162	.082	.024	.155	.080	.023	.149	.078	.023	.144	.076	.022	
7.0	.158	.078	.022	.155	.077	.022	.149	.075	.022	.144	.074	.021	.139	.072	.021	
8.0	.151	.074	.021	.148	.073	.021	.143	.071	.020	.138	.070	.020	.133	.068	.020	
9.0	.144	.070	.019	.141	.069	.019	.137	.068	.019	.132	.066	.019	.128	.065	.019	
10.0	.138	.066	.018	.135	.065	.018	.131	.064	.018	.127	.063	.018	.124	.062	.018	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.068	.120	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.133	.088	.056	.114	.076	.048	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.099	.057	.029	.068	.040	.021	.040	.024	.012	.013	.008	.004	
9.0	.110	.061	.029	.094	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.105	.057	.025	.090	.050	.022	.063	.035	.016	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6KG		
SPEC.:AOK-240WoH-3030-90D					DIM.: 0.4*0.141M			SERIAL No.:1		
MFR.: AOK					SUR.:±0.29M			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	12.8	14.0	13.1	14.1	14.3	12.7	13.9	13.0	14.1	14.2
3H	12.7	13.7	12.9	13.9	14.1	12.6	13.6	12.9	13.8	14.1
4H	12.6	13.6	12.9	13.8	14.0	12.5	13.5	12.8	13.7	14.0
6H	12.5	13.4	12.8	13.7	14.0	12.5	13.4	12.8	13.6	13.9
8H	12.5	13.4	12.8	13.6	13.9	12.4	13.3	12.7	13.6	13.8
12H	12.4	13.3	12.8	13.6	13.8	12.4	13.2	12.7	13.5	13.8
4H 2H	12.6	13.5	12.8	13.8	14.0	12.5	13.5	12.8	13.7	13.9
3H	12.4	13.3	12.8	13.5	13.8	12.4	13.2	12.7	13.5	13.8
4H	12.4	13.1	12.7	13.4	13.8	12.3	13.1	12.7	13.4	13.7
6H	12.3	13.0	12.7	13.3	13.7	12.3	12.9	12.6	13.3	13.6
8H	12.3	12.9	12.7	13.3	13.6	12.2	12.8	12.6	13.2	13.5
12H	12.2	12.8	12.7	13.2	13.6	12.2	12.7	12.6	13.1	13.5
8H 4H	12.3	12.9	12.7	13.2	13.6	12.2	12.8	12.6	13.2	13.5
6H	12.2	12.7	12.7	13.1	13.5	12.1	12.6	12.6	13.0	13.5
8H	12.2	12.6	12.6	13.0	13.5	12.1	12.5	12.6	13.0	13.4
12H	12.1	12.5	12.6	13.0	13.4	12.1	12.4	12.5	12.9	13.3
12H 4H	12.2	12.8	12.6	13.2	13.5	12.1	12.7	12.6	13.1	13.5
6H	12.2	12.6	12.6	13.0	13.5	12.1	12.5	12.6	13.0	13.4
8H	12.1	12.5	12.6	13.0	13.4	12.1	12.4	12.5	12.9	13.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 9.4					+ 2.4 / - 9.6				
1.5H	+ 4.1 / - 9.3					+ 4.2 / - 9.4				
2.0H	+ 7.2 / - 5.5					+ 7.1 / - 5.4				

CIE Pub.117, 34291 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 12.3$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.29M	Shielding Angle:

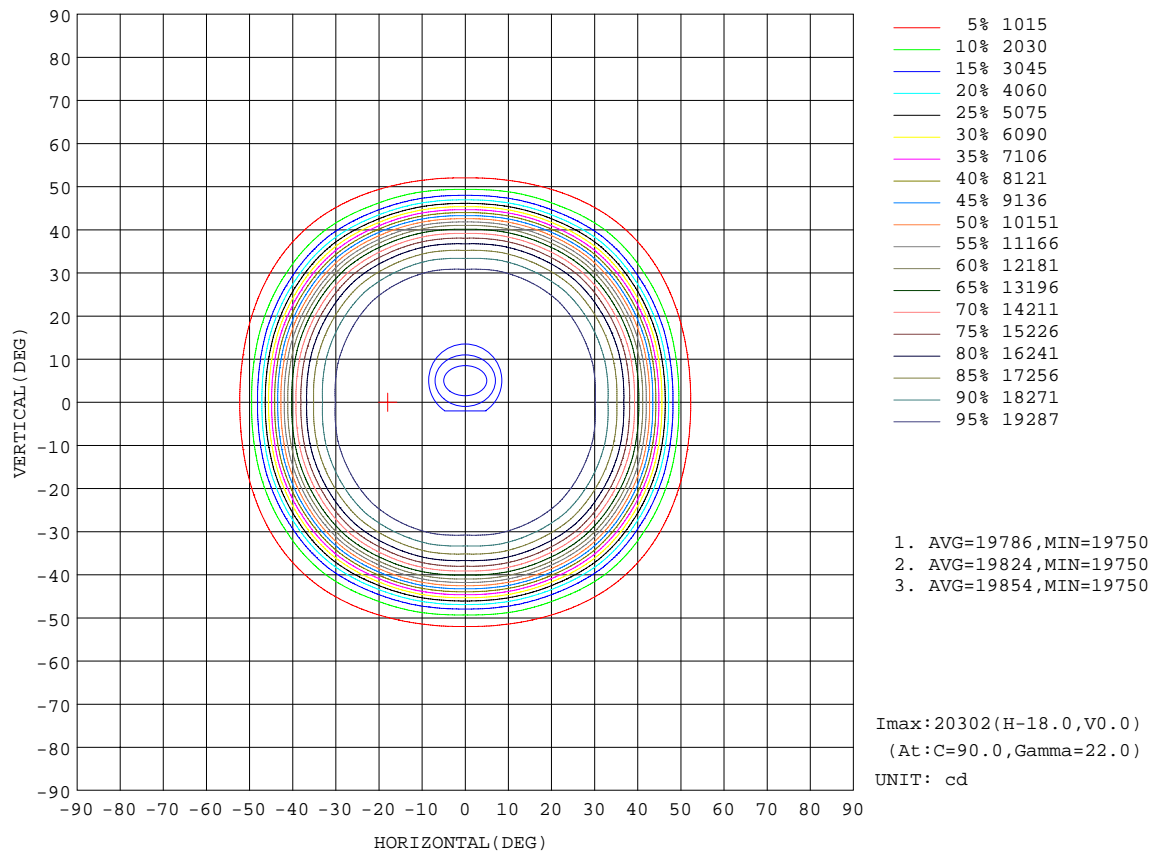
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	79	72	67	79	71	67	78	71	67	62
0.80	88	81	76	87	80	76	86	80	76	71
1.00	94	87	83	93	87	83	92	87	82	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	103	97	93	101	96	92	99	94	91	86
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	107	106	104	96
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:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.29M	Shielding Angle:



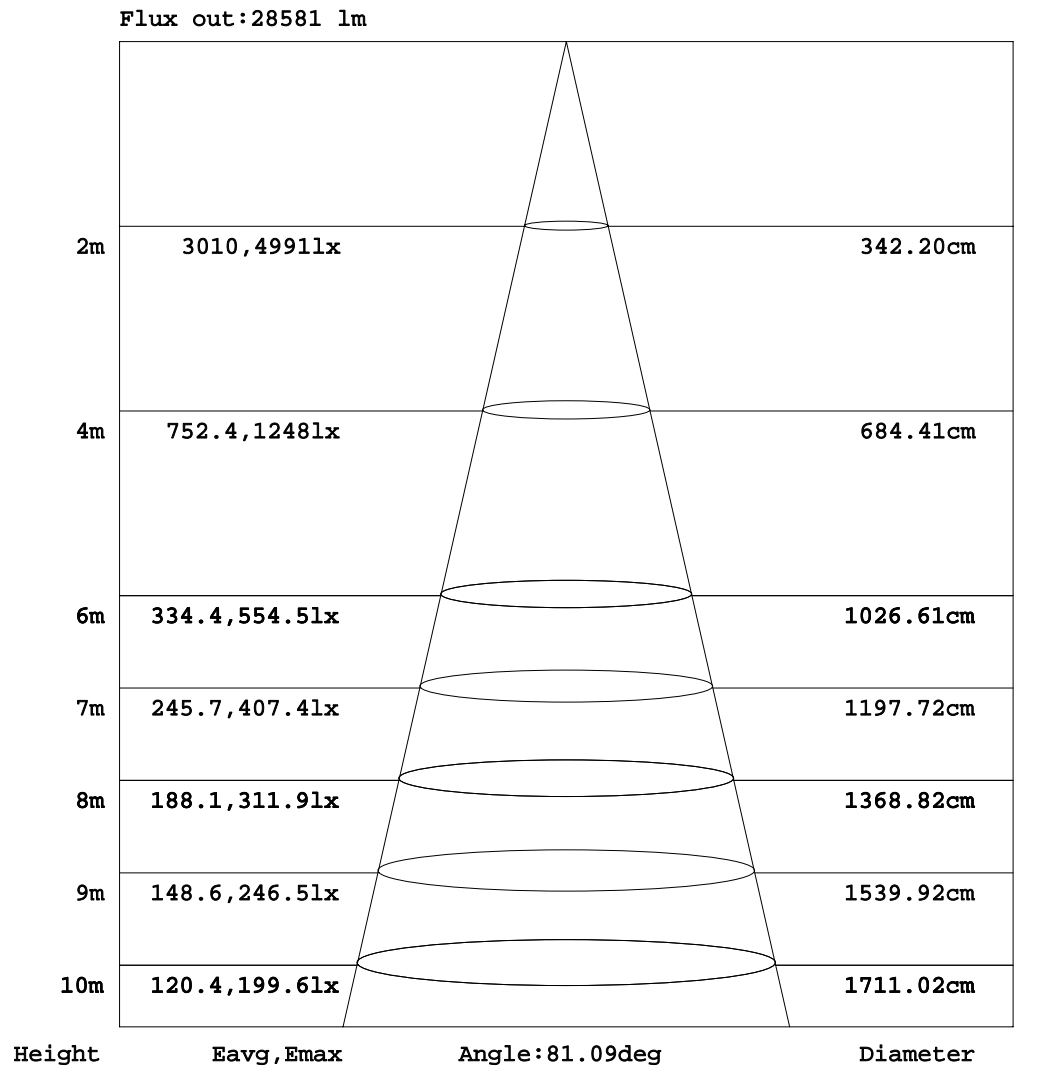
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240Woh-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.29M	Shielding Angle:



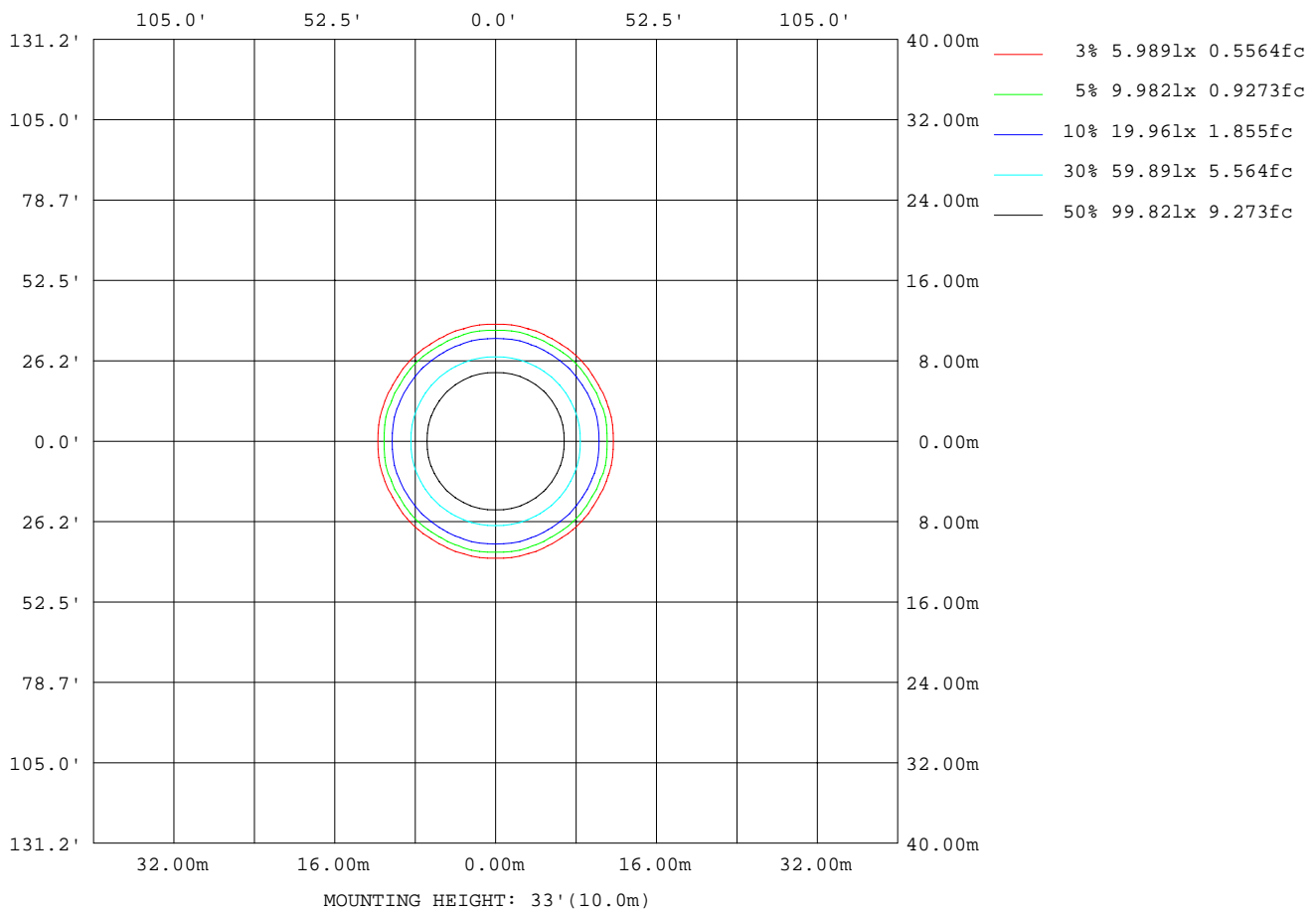
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

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:

## ISOLUX DIAGRAM

Test:U:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240Woh-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.29M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

$\gamma$  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:

## LED Avg.L Report

Test:U:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.29M	Shielding Angle:

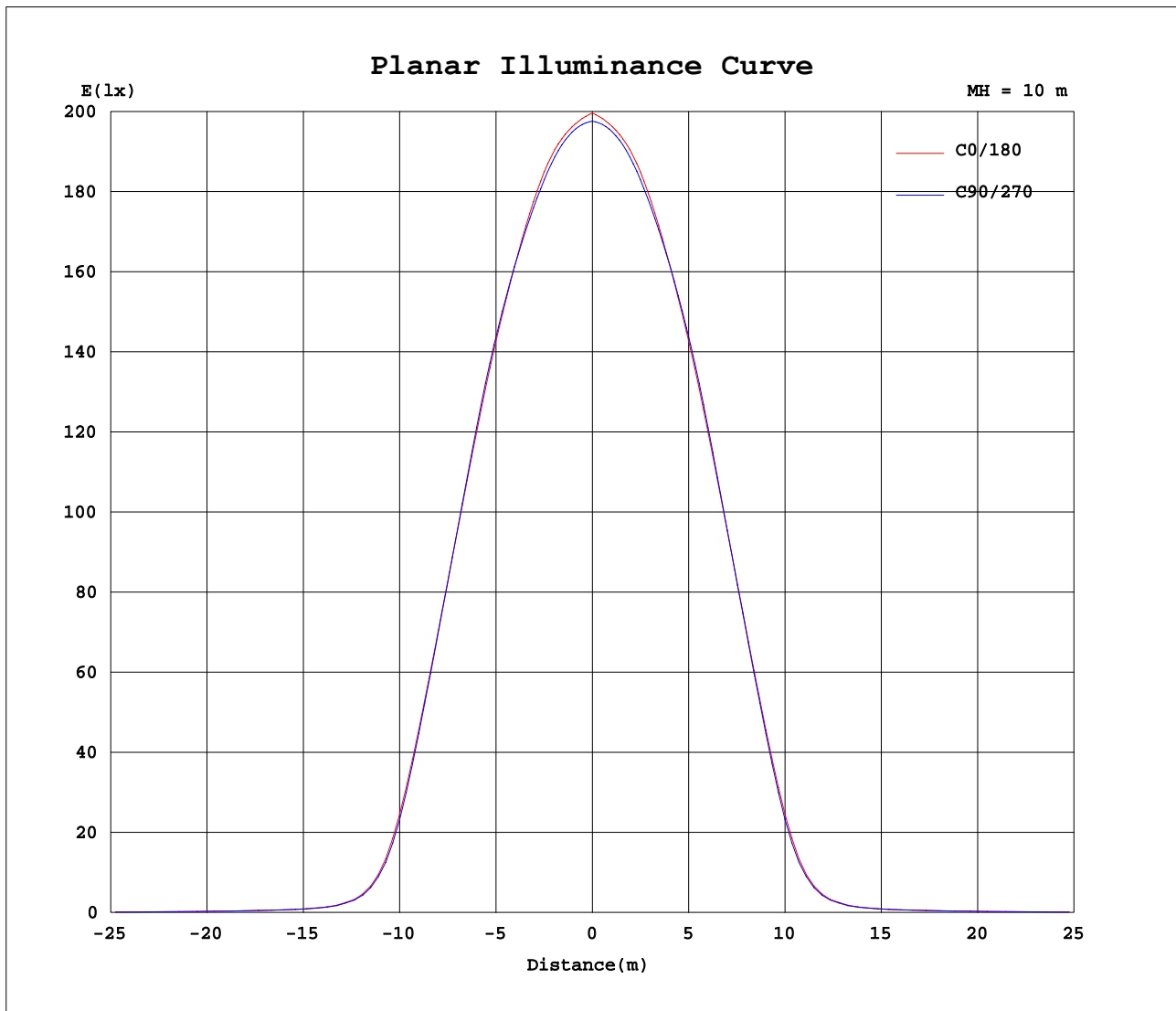
AvgL	cd/m2
L_0~180 (65) av	7714
L_0~180 (75) av	6919
L_0~180 (85) av	1567
L_90~270 (65) av	7634
L_90~270 (75) av	6874
L_90~270 (85) av	1183
L_45 (65) av	7662
L_45 (75) av	6807
L_45 (85) av	1209

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-19

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:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-10-19

$\gamma$  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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.29M	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984
5	1980	1978	1978	1977	1980	1983	1987	1983	1980	1977	1978	1978	1980	1978	1978	1977	1980	1983	1987
10	1997	1993	1992	1990	1992	1994	2000	1994	1992	1990	1992	1993	1997	1993	1992	1990	1992	1994	2000
15	2014	2012	2011	2007	2007	2008	2014	2008	2007	2007	2011	2012	2014	2012	2011	2007	2007	2008	2014
20	2016	2016	2019	2020	2021	2023	2028	2023	2021	2020	2019	2016	2016	2016	2019	2020	2021	2023	2028
25	1995	2000	2008	2016	2022	2025	2027	2025	2022	2016	2008	2000	1995	2000	2008	2016	2022	2025	2027
30	1920	1940	1951	1966	1970	1971	1960	1971	1970	1966	1951	1940	1920	1940	1951	1966	1970	1971	1960
35	1724	1753	1765	1779	1769	1767	1744	1767	1769	1779	1765	1753	1724	1753	1765	1779	1769	1767	1744
40	1336	1371	1371	1385	1366	1361	1336	1361	1366	1385	1371	1371	1336	1371	1371	1385	1366	1361	1336
45	690	716	695	706	674	679	659	679	674	706	695	716	690	716	695	706	674	679	659
50	174	181	174	180	171	174	165	174	171	180	174	181	174	181	174	180	171	174	165
55	62.3	64.6	64.3	65.4	63.1	62.1	59.3	62.1	63.1	65.4	64.3	64.6	62.3	64.6	64.3	65.4	63.1	62.1	59.3
60	41.7	42.2	42.0	42.3	41.9	41.9	41.2	41.9	41.9	42.3	42.0	42.2	41.7	42.2	42.0	42.3	41.9	41.9	41.2
65	32.6	32.7	32.3	32.4	32.4	32.6	32.3	32.6	32.4	32.4	32.3	32.7	32.6	32.7	32.3	32.4	32.4	32.6	32.3
70	24.8	24.8	24.4	24.4	24.4	24.7	24.5	24.7	24.4	24.4	24.4	24.8	24.8	24.8	24.4	24.4	24.4	24.7	24.5
75	17.9	17.9	17.6	17.6	17.7	17.9	17.8	17.9	17.7	17.6	17.6	17.9	17.9	17.9	17.6	17.6	17.7	17.9	17.8
80	10.6	10.6	10.0	9.95	9.48	9.81	9.89	9.81	9.48	9.95	10.0	10.6	10.6	10.6	10.0	9.95	9.48	9.81	9.89
85	1.37	1.26	1.09	1.05	0.98	1.03	1.03	1.03	0.98	1.05	1.09	1.26	1.37	1.26	1.09	1.05	0.98	1.03	1.03
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:2018-10-19

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:220.7V I:1.105A P:239.1W PF:0.9807 Freq:49.99Hz Lamp Flux:34290.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6KG
SPEC.:AOK-240WoH-3030-90D	DIM.: 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.29M	Shielding Angle:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1984	1984	1984	1984	1984														
5	1983	1980	1977	1978	1978														
10	1994	1992	1990	1992	1993														
15	2008	2007	2007	2011	2012														
20	2023	2021	2020	2019	2016														
25	2025	2022	2016	2008	2000														
30	1971	1970	1966	1951	1940														
35	1767	1769	1779	1765	1753														
40	1361	1366	1385	1371	1371														
45	679	674	706	695	716														
50	174	171	180	174	181														
55	62.1	63.1	65.4	64.3	64.6														
60	41.9	41.9	42.3	42.0	42.2														
65	32.6	32.4	32.4	32.3	32.7														
70	24.7	24.4	24.4	24.4	24.8														
75	17.9	17.7	17.6	17.6	17.9														
80	9.81	9.48	9.95	10.0	10.6														
85	1.03	0.98	1.05	1.09	1.26														
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:2018-10-19

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: