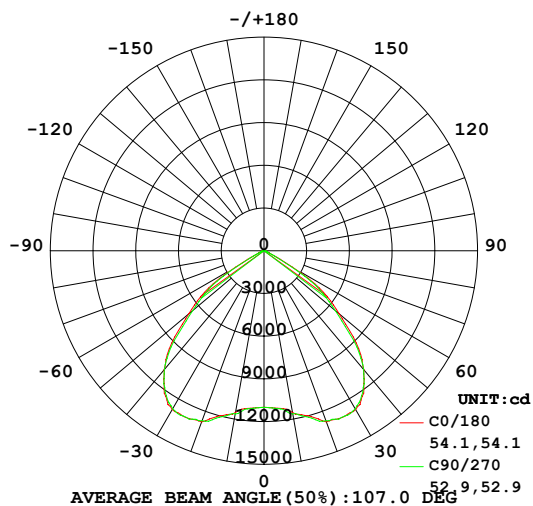


## LUMINAIRE PHOTOMETRIC TEST REPORT

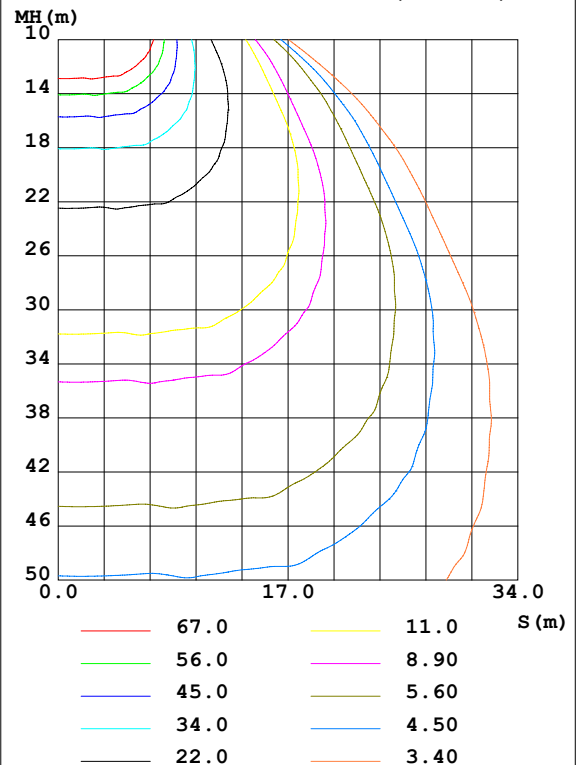
Test:U:219.9V I:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.00 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	13325	S/MH (C0/180)	1.50
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.47
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	30112	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	30112.2	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:2018-01-02

$\gamma$  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	1153	1179	1164	1179	1153	1179	1164	1179	0- 10	1083	1083	3.6,3.6
20	1279	1286	1270	1286	1279	1286	1270	1286	10- 20	3486	4569	15.2,15.2
30	1288	1313	1282	1313	1288	1313	1282	1313	20- 30	6039	10608	35.2,35.2
40	1091	1098	1087	1098	1091	1098	1087	1098	30- 40	7604	18212	60.5,60.5
50	688.3	656.6	653.4	656.6	688.3	656.6	653.4	656.6	40- 50	6801	25013	83.1,83.1
60	230.8	180.8	207.0	180.8	230.8	180.8	207.0	180.8	50- 60	4098	29111	96.7,96.7
70	31.53	29.36	29.77	29.36	31.53	29.36	29.77	29.36	60- 70	695.4	29807	99,99
80	13.78	12.90	13.36	12.90	13.78	12.90	13.36	12.90	70- 80	220.2	30027	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	85.11	30112	100,100
100	0	0	0	0	0	0	0	0	90-100	0	30112	100,100
110	0	0	0	0	0	0	0	0	100-110	0	30112	100,100
120	0	0	0	0	0	0	0	0	110-120	0	30112	100,100
130	0	0	0	0	0	0	0	0	120-130	0	30112	100,100
140	0	0	0	0	0	0	0	0	130-140	0	30112	100,100
150	0	0	0	0	0	0	0	0	140-150	0	30112	100,100
160	0	0	0	0	0	0	0	0	150-160	0	30112	100,100
170	0	0	0	0	0	0	0	0	160-170	0	30112	100,100
180	0	0	0	0	0	0	0	0	170-180	0	30112	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 21920 lm

%lum = 72.8%

%lamp = 72.8%

Conical surface Flux(120deg): 29111 lm

%lum = 96.7%

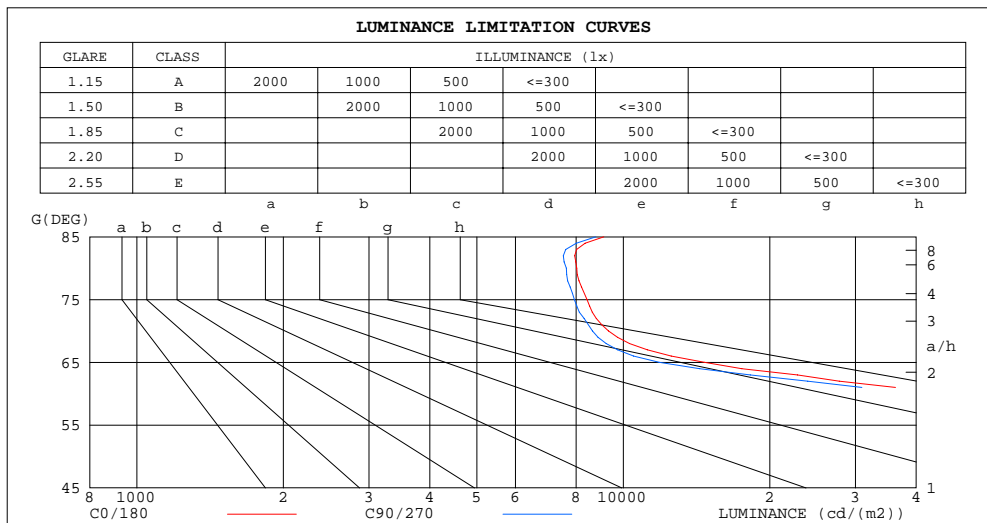
%lamp = 96.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	9116	8778
80	8021	7636
75	8421	7930
70	9317	8637
65	14670	11852
60	46651	41090
55	89982	83044
50	108229	100877
45	130845	125293

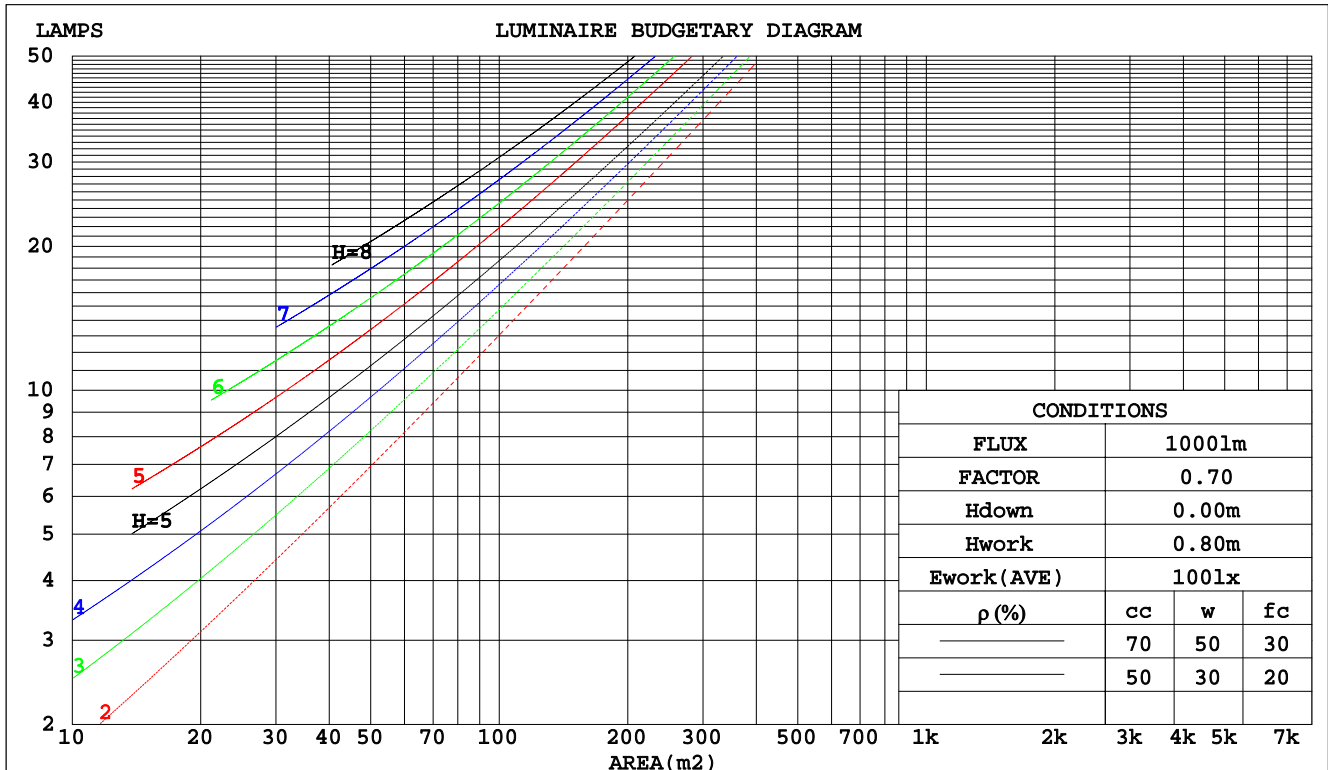
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	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	1.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79
3.0	.87	.80	.75	.86	.79	.74	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.78	.71	.65	.77	.70	.65	.75	.69	.64	.73	.67	.63	.71	.66	.62	.61
5.0	.71	.63	.57	.70	.63	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6.0	.64	.56	.51	.63	.56	.50	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7.0	.59	.51	.45	.58	.50	.45	.56	.50	.45	.55	.49	.44	.54	.48	.44	.42
8.0	.54	.46	.40	.53	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.36	.49	.41	.36	.48	.41	.36	.46	.40	.36	.46	.40	.36	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.29M	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	.234	.133	.042	.227	.129	.041	.214	.123	.039	.202	.117	.037	.191	.111	.036	
2.0	.229	.126	.039	.223	.123	.038	.212	.118	.037	.202	.113	.035	.192	.109	.034	
3.0	.220	.117	.035	.215	.115	.035	.205	.111	.034	.196	.108	.033	.188	.104	.032	
4.0	.210	.109	.032	.205	.107	.032	.196	.104	.031	.188	.101	.031	.181	.098	.030	
5.0	.199	.101	.029	.195	.100	.029	.187	.097	.029	.180	.095	.028	.173	.093	.028	
6.0	.188	.094	.027	.185	.093	.027	.178	.091	.027	.172	.089	.026	.166	.087	.026	
7.0	.178	.088	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	.158	.082	.024	
8.0	.169	.083	.023	.166	.082	.023	.161	.080	.023	.156	.079	.023	.151	.077	.023	
9.0	.160	.078	.022	.158	.077	.022	.153	.076	.021	.148	.074	.021	.144	.073	.021	
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.020	

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	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.071	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-120D-PC					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi 0.29M$			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	15.9	17.2	16.2	17.4	17.6	15.6	16.9	15.8	17.1	17.3
3H	15.8	17.0	16.1	17.2	17.4	15.4	16.6	15.7	16.8	17.0
4H	15.7	16.8	16.0	17.1	17.3	15.3	16.4	15.6	16.7	16.9
6H	15.6	16.7	15.9	16.9	17.2	15.2	16.3	15.5	16.5	16.8
8H	15.6	16.6	15.9	16.9	17.1	15.2	16.2	15.5	16.5	16.8
12H	15.5	16.5	15.9	16.8	17.1	15.1	16.1	15.5	16.4	16.7
4H 2H	15.8	16.9	16.1	17.2	17.4	15.5	16.6	15.8	16.8	17.1
3H	15.7	16.6	16.0	16.9	17.2	15.3	16.3	15.6	16.6	16.9
4H	15.6	16.5	16.0	16.8	17.1	15.2	16.1	15.6	16.4	16.7
6H	15.5	16.3	15.9	16.6	17.0	15.2	15.9	15.6	16.3	16.6
8H	15.5	16.2	15.9	16.6	16.9	15.1	15.9	15.6	16.2	16.6
12H	15.5	16.1	15.9	16.5	16.9	15.1	15.8	15.5	16.1	16.5
8H 4H	15.5	16.2	15.9	16.5	16.9	15.1	15.8	15.5	16.2	16.6
6H	15.4	16.0	15.9	16.4	16.8	15.1	15.7	15.5	16.1	16.5
8H	15.4	15.9	15.9	16.3	16.8	15.1	15.6	15.5	16.0	16.4
12H	15.4	15.8	15.9	16.3	16.7	15.0	15.5	15.5	15.9	16.4
12H 4H	15.4	16.1	15.9	16.5	16.9	15.1	15.7	15.5	16.1	16.5
6H	15.4	15.9	15.8	16.3	16.8	15.0	15.5	15.5	16.0	16.4
8H	15.4	15.8	15.8	16.2	16.7	15.0	15.5	15.5	15.9	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.3					+ 1.3 / - 1.6				
1.5H	+ 0.7 / - 1.0					+ 0.4 / - 0.7				
2.0H	+ 2.6 / - 8.3					+ 2.7 / - 8.7				

CIE Pub.117, 30112 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.8$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

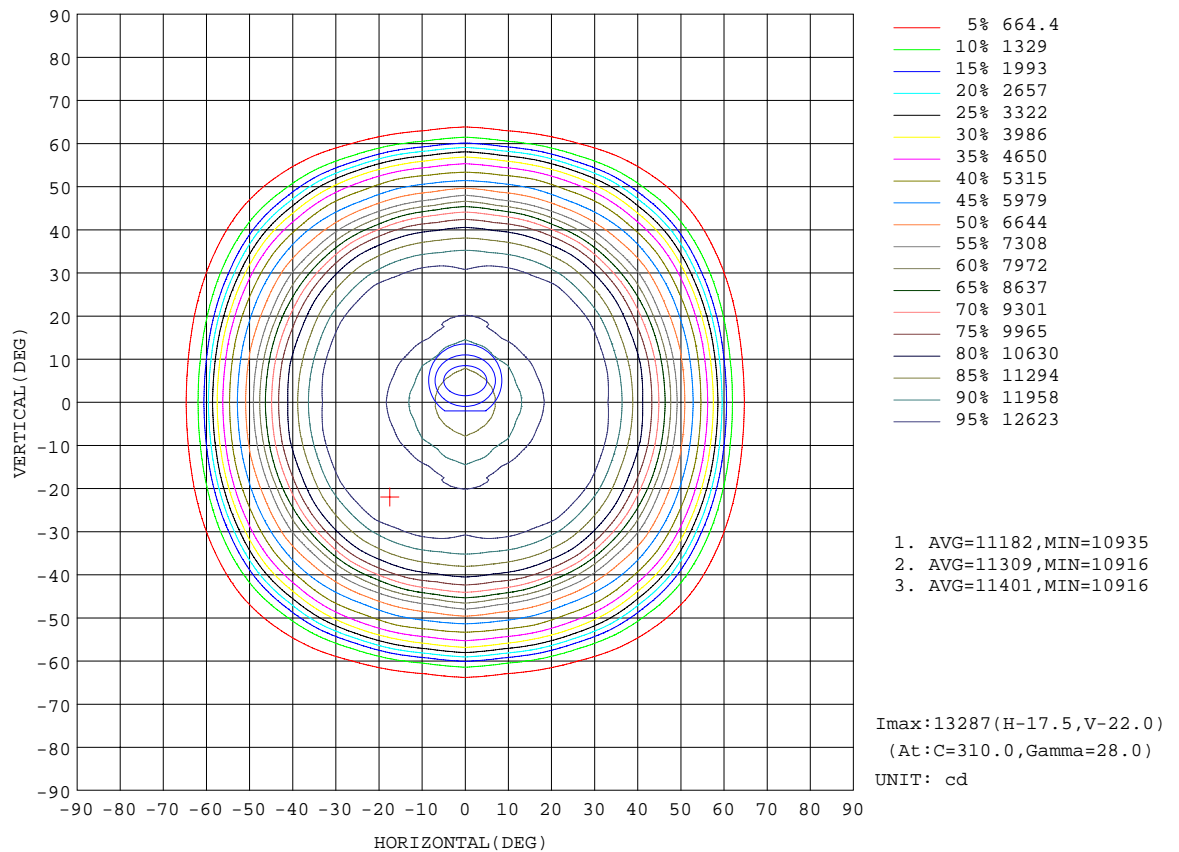
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	49	65	55	49	64	55	49	44
0.80	77	67	61	76	66	60	74	66	60	54
1.00	85	76	71	84	76	70	82	77	70	64
1.25	92	84	78	91	83	78	88	82	77	71
1.50	96	89	84	95	88	83	92	87	82	76
2.00	102	96	91	100	95	90	97	93	89	82
2.50	105	99	94	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	102	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	111	108	105	109	106	103	105	102	100	92
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:2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

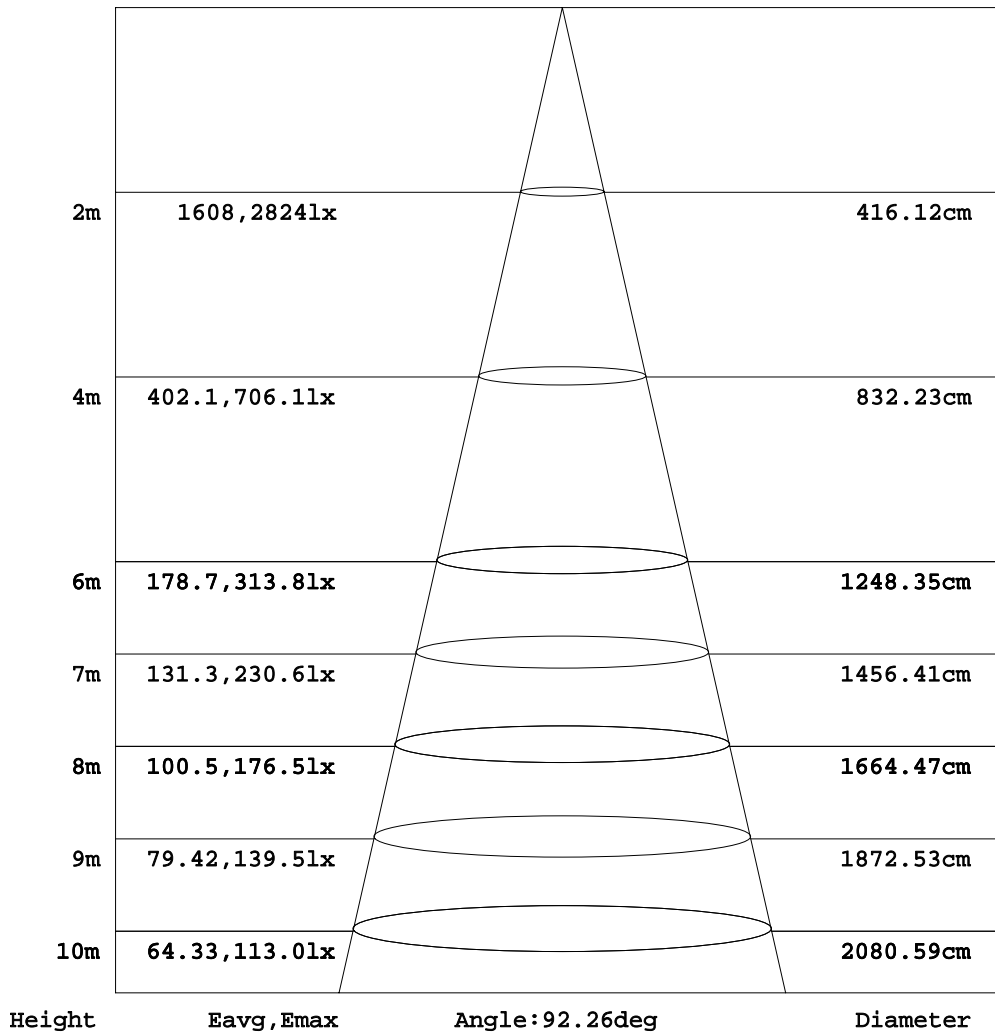
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:219.9V I:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Flux out:23241 lm



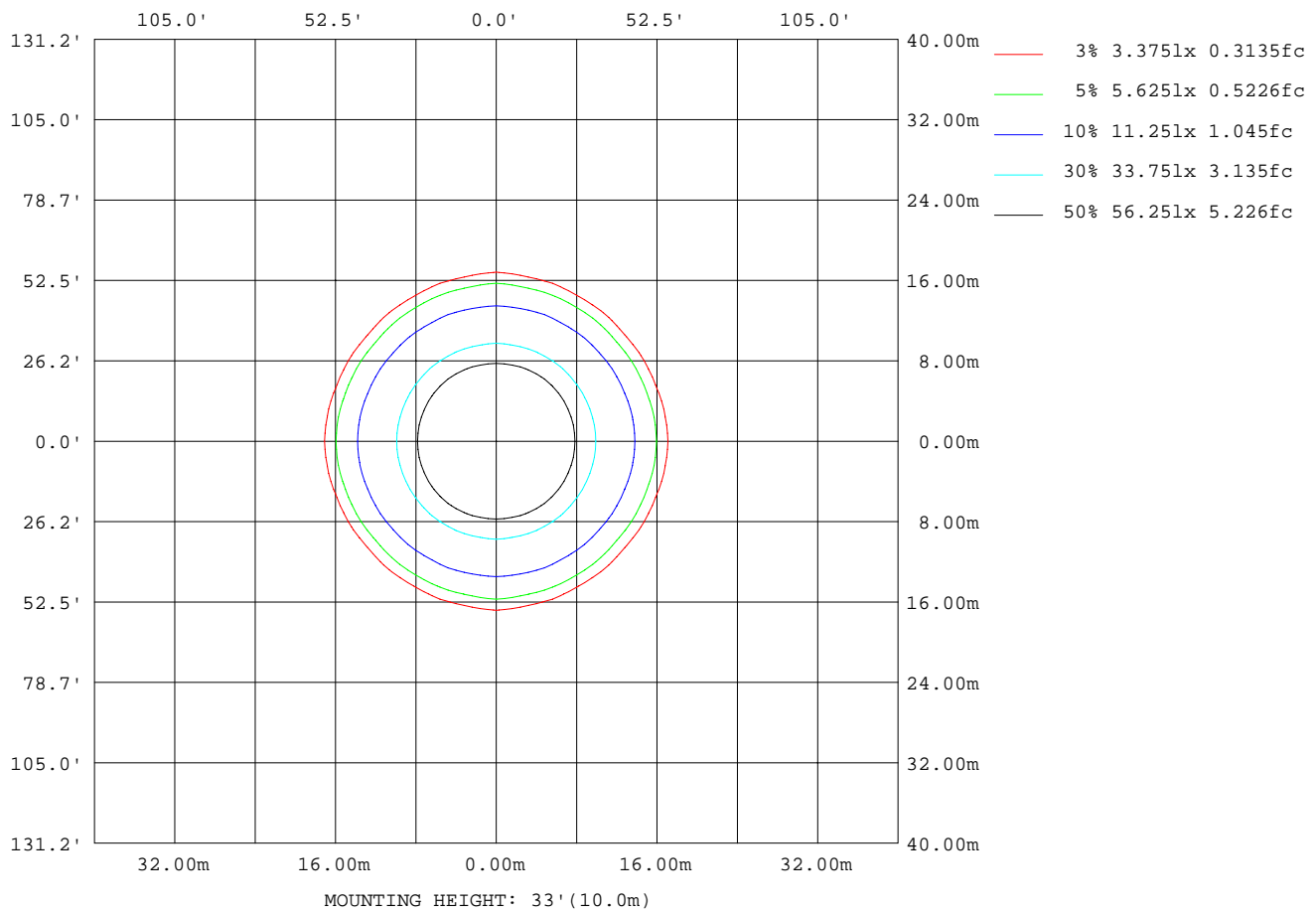
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

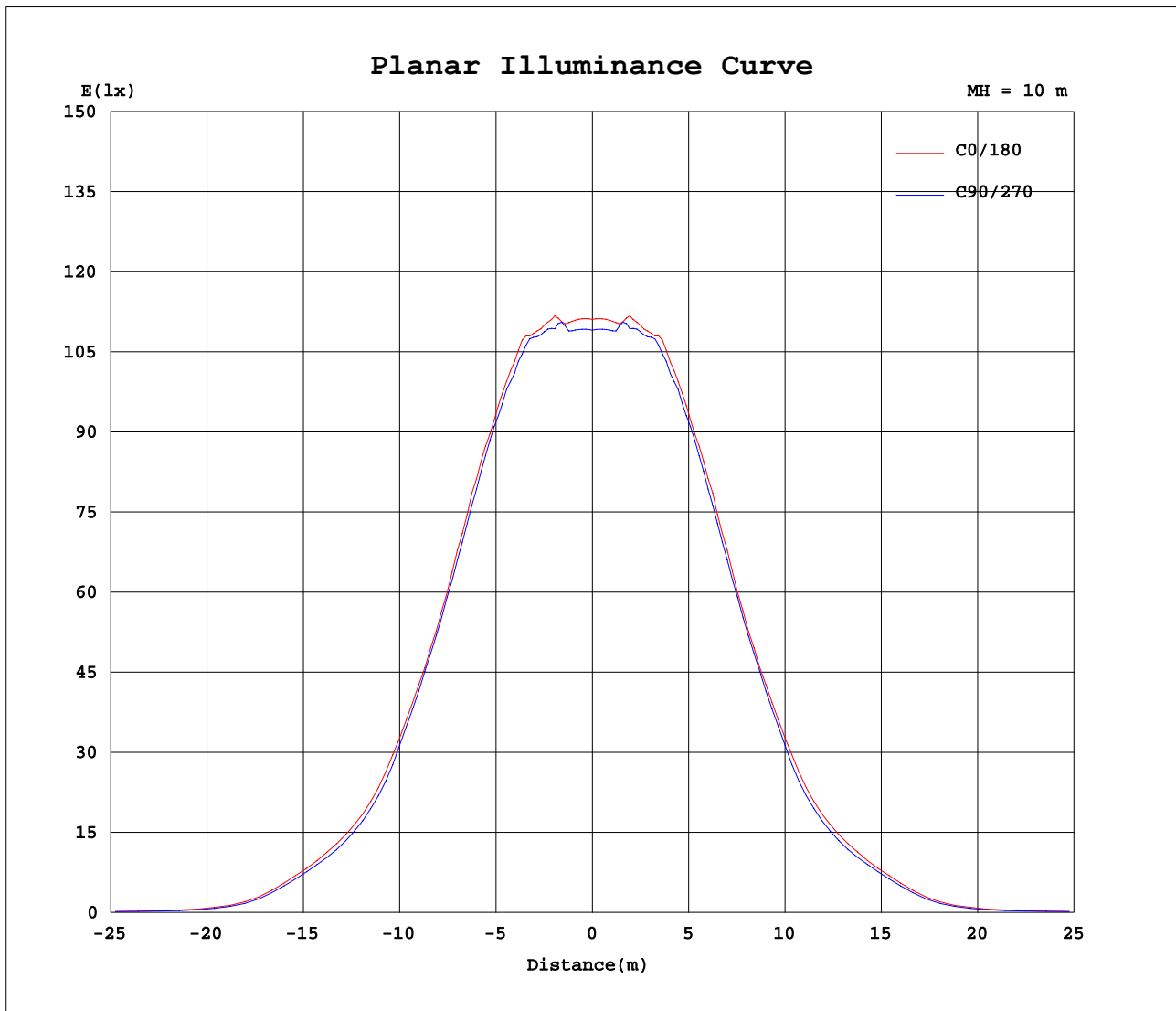
AvgL	cd/m2
L_0~180 (65) av	14514
L_0~180 (75) av	8331
L_0~180 (85) av	9019
L_90~270 (65) av	11944
L_90~270 (75) av	7991
L_90~270 (85) av	8846
L_45 (65) av	11817
L_45 (75) av	7885
L_45 (85) av	8342

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  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: 2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT:  $\times 10cd$ 

C (DEG) $\gamma$ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099
5	1110	1112	1114	1115	1116	1116	1116	1115	1114	1112	1114	1115	1116	1116	1116	1115	1114	1112	1110
10	1153	1161	1172	1178	1179	1179	1178	1176	1170	1164	1170	1176	1178	1179	1179	1178	1172	1161	1153
15	1200	1206	1212	1216	1219	1220	1228	1219	1219	1210	1219	1219	1228	1220	1219	1216	1212	1206	1200
20	1279	1290	1289	1289	1288	1283	1281	1276	1271	1270	1271	1276	1281	1283	1288	1289	1289	1290	1279
25	1293	1306	1318	1320	1320	1322	1318	1305	1293	1291	1293	1305	1318	1322	1320	1320	1318	1306	1293
30	1288	1297	1302	1306	1312	1314	1313	1305	1290	1282	1290	1305	1313	1314	1312	1306	1302	1297	1288
35	1221	1230	1225	1236	1229	1233	1220	1217	1205	1211	1205	1217	1220	1233	1229	1236	1225	1230	1221
40	1091	1095	1091	1097	1099	1096	1093	1090	1079	1087	1079	1090	1093	1096	1099	1097	1091	1095	1091
45	915	916	904	901	892	886	871	877	868	893	868	877	871	886	892	901	904	916	915
50	688	690	680	677	659	654	649	643	641	653	641	643	649	654	659	677	680	690	688
55	511	510	499	487	471	473	467	471	465	480	465	471	467	473	471	487	499	510	511
60	231	224	201	195	179	183	173	185	181	207	181	185	173	183	179	195	201	224	231
65	61.3	59.6	55.3	53.3	50.4	49.6	47.3	47.1	46.5	50.5	46.5	47.1	47.3	49.6	50.4	53.3	55.3	59.6	61.3
70	31.5	30.9	30.2	30.1	29.3	29.4	29.2	29.2	29.0	29.8	29.0	29.2	29.2	29.4	29.3	30.1	30.2	30.9	31.5
75	21.6	21.3	20.9	20.7	20.4	20.4	20.4	20.4	20.2	20.7	20.2	20.4	20.4	20.4	20.4	20.7	20.9	21.3	21.6
80	13.8	13.5	13.1	13.0	12.8	13.0	12.8	13.0	12.9	13.4	12.9	13.0	12.8	13.0	12.8	13.0	13.1	13.5	13.8
85	7.86	7.63	7.43	7.33	7.23	7.32	7.29	7.38	7.44	7.71	7.44	7.38	7.29	7.32	7.23	7.33	7.43	7.63	7.86
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: 2018-01-02

$\gamma$  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:1.141A P:237.1W PF:0.9790 Freq:49.99Hz Lamp Flux:30112.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-120D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--2

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099	1099		
5	1112	1114	1115	1116	1116	1116	1115	1114	1112	1114	1115	1116	1116	1116	1115	1114	1112		
10	1161	1172	1178	1179	1179	1178	1176	1170	1164	1170	1176	1178	1179	1179	1178	1172	1161		
15	1206	1212	1216	1219	1220	1228	1219	1219	1210	1219	1219	1228	1220	1219	1216	1212	1206		
20	1290	1289	1289	1288	1283	1281	1276	1271	1270	1271	1276	1281	1283	1288	1289	1289	1290		
25	1306	1318	1320	1320	1322	1318	1305	1293	1291	1293	1305	1318	1322	1320	1320	1318	1306		
30	1297	1302	1306	1312	1314	1313	1305	1290	1282	1290	1305	1313	1314	1312	1306	1302	1297		
35	1230	1225	1236	1229	1233	1220	1217	1205	1211	1205	1217	1220	1233	1229	1236	1225	1230		
40	1095	1091	1097	1099	1096	1093	1090	1079	1087	1079	1090	1093	1096	1099	1097	1091	1095		
45	916	904	901	892	886	871	877	868	893	868	877	871	886	892	901	904	916		
50	690	680	677	659	654	649	643	641	653	641	643	649	654	659	677	680	690		
55	510	499	487	471	473	467	471	465	480	465	471	467	473	471	487	499	510		
60	224	201	195	179	183	173	185	181	207	181	185	173	183	179	195	201	224		
65	59.6	55.3	53.3	50.4	49.6	47.3	47.1	46.5	50.5	46.5	47.1	47.3	49.6	50.4	53.3	55.3	59.6		
70	30.9	30.2	30.1	29.3	29.4	29.2	29.2	29.0	29.8	29.0	29.2	29.2	29.4	29.3	30.1	30.2	30.9		
75	21.3	20.9	20.7	20.4	20.4	20.4	20.4	20.2	20.7	20.2	20.4	20.4	20.4	20.4	20.7	20.9	21.3		
80	13.5	13.1	13.0	12.8	13.0	12.8	13.0	12.9	13.4	12.9	13.0	12.8	13.0	12.8	13.0	13.1	13.5		
85	7.63	7.43	7.33	7.23	7.32	7.29	7.38	7.44	7.71	7.44	7.38	7.29	7.32	7.23	7.33	7.43	7.63		
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: 2018-01-02

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: