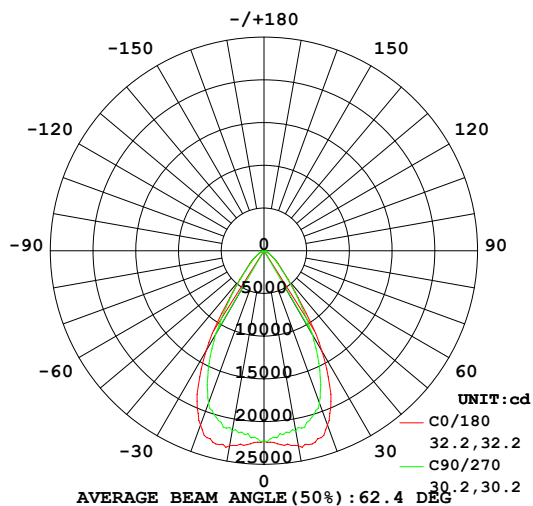


## LUMINAIRE PHOTOMETRIC TEST REPORT

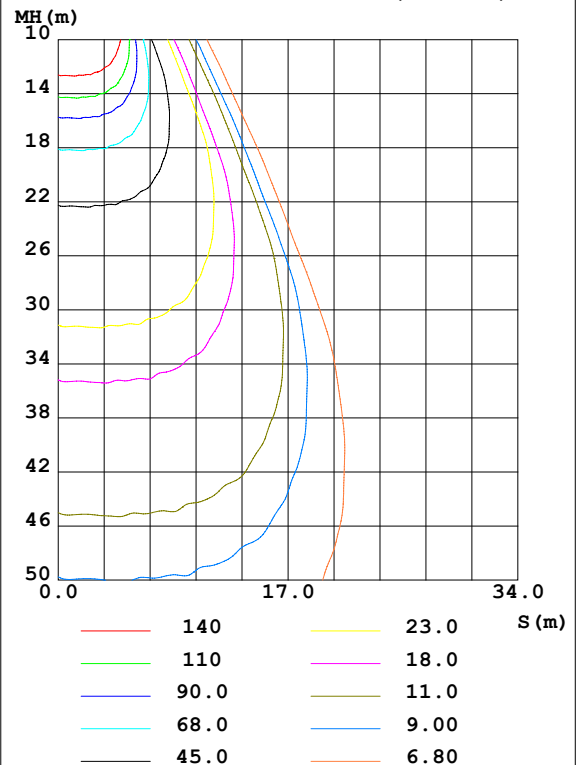
Test:U:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm					
NAME: AOK oH		TYPE:LED		WEIGHT:6.0KG	
SPEC.:AOK-200Woh-3030-60D-PC-ALL		DIM.: $\phi 0.4 \times 0.141M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.29M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.16 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	23430	S/MH (C0/180)	0.93
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	0.90
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	24410	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	24409.5	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.90

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: 2017-12-29

$\gamma$  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	2317	2201	2139	2201	2317	2201	2139	2201	0- 10	2110	2110	8.65,8.65
20	2171	1989	1900	1989	2171	1989	1900	1989	10- 20	6069	8180	33.5,33.5
30	1352	1195	1143	1195	1352	1195	1143	1195	20- 30	7492	15672	64.2,64.2
40	437.4	424.6	423.1	424.6	437.4	424.6	423.1	424.6	30- 40	4731	20403	83.6,83.6
50	186.2	175.9	178.5	175.9	186.2	175.9	178.5	175.9	40- 50	2114	22518	92.2,92.2
60	71.40	72.72	78.96	72.72	71.40	72.72	78.96	72.72	50- 60	1065	23582	96.6,96.6
70	31.91	33.83	36.23	33.83	31.91	33.83	36.23	33.83	60- 70	498.2	24081	98.7,98.7
80	13.29	13.77	14.90	13.77	13.29	13.77	14.90	13.77	70- 80	245.3	24326	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	83.63	24410	100,100
100	0	0	0	0	0	0	0	0	90-100	0	24410	100,100
110	0	0	0	0	0	0	0	0	100-110	0	24410	100,100
120	0	0	0	0	0	0	0	0	110-120	0	24410	100,100
130	0	0	0	0	0	0	0	0	120-130	0	24410	100,100
140	0	0	0	0	0	0	0	0	130-140	0	24410	100,100
150	0	0	0	0	0	0	0	0	140-150	0	24410	100,100
160	0	0	0	0	0	0	0	0	150-160	0	24410	100,100
170	0	0	0	0	0	0	0	0	160-170	0	24410	100,100
180	0	0	0	0	0	0	0	0	170-180	0	24410	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 21637 lm

%lum = 88.6%

%lamp = 88.6%

Conical surface Flux(120deg): 23582 lm

%lum = 96.6%

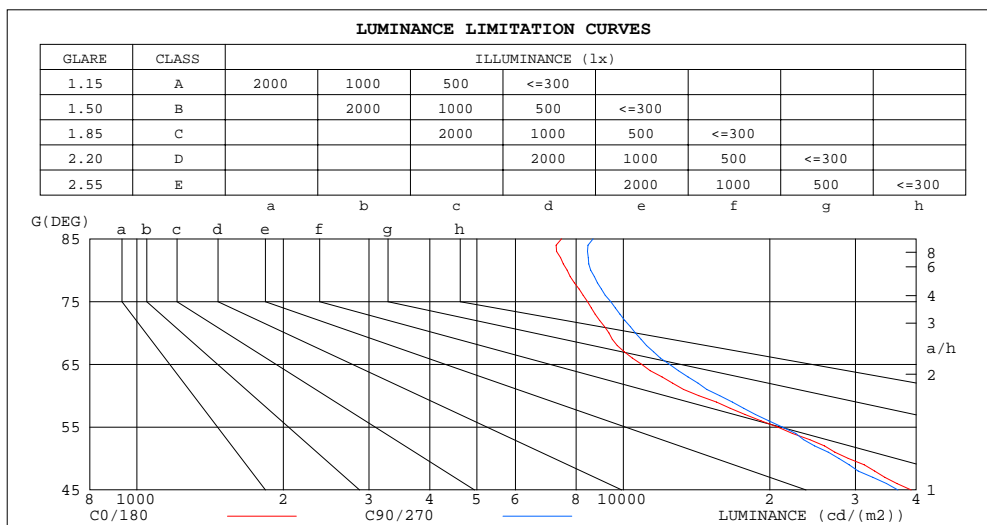
%lamp = 96.6%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC-ALL	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	7465	8666
80	7662	8570
75	8436	9417
70	9340	10583
65	10904	12439
60	14293	15776
55	20759	21218
50	28996	27739
45	39052	36687

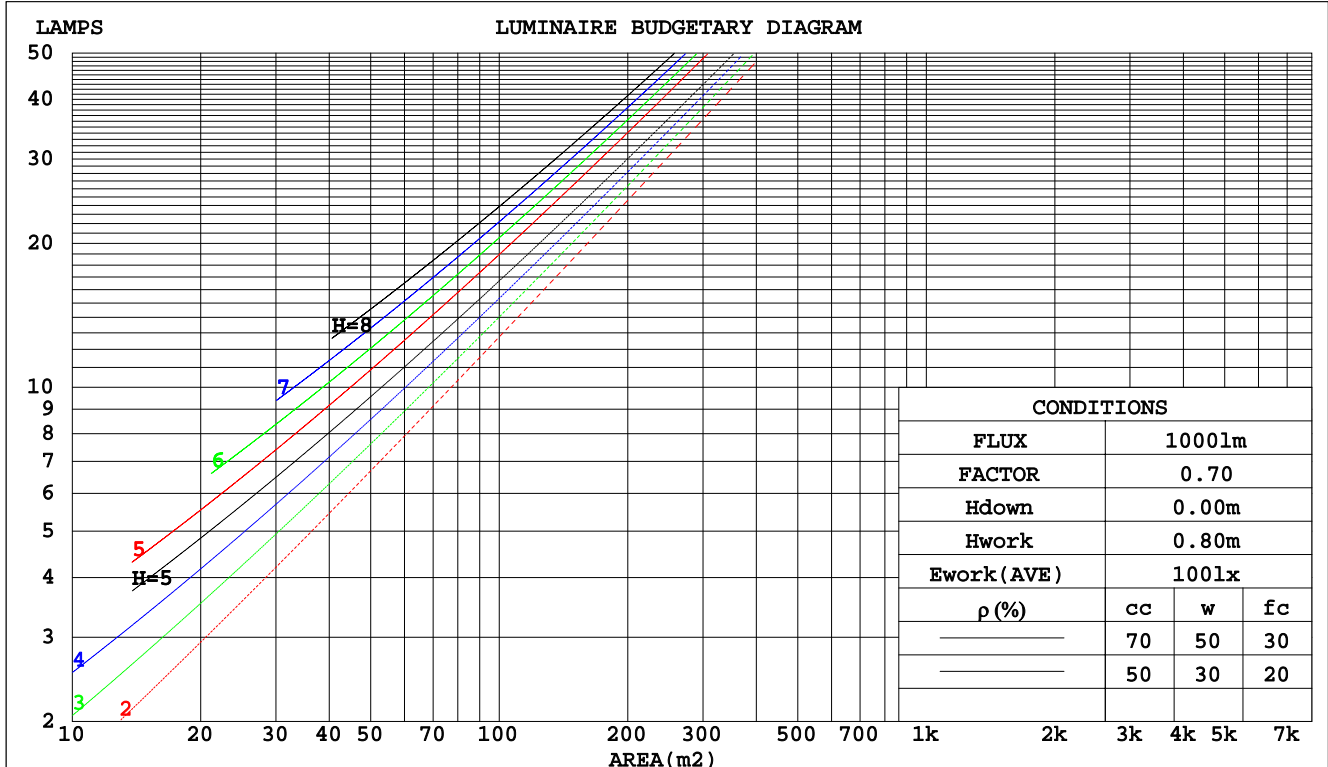
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC-ALL	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	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.96	.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	.76	.85	.80	.75	.83	.78	.74	.81	.77	.73	.79	.75	.73	.71
5.0	.80	.74	.69	.79	.73	.69	.78	.72	.68	.76	.71	.68	.74	.70	.67	.65
6.0	.75	.68	.64	.74	.68	.64	.73	.67	.63	.71	.66	.63	.70	.65	.62	.61
7.0	.70	.64	.59	.69	.63	.59	.68	.63	.58	.67	.62	.58	.66	.61	.58	.56
8.0	.66	.59	.55	.65	.59	.55	.64	.58	.54	.63	.58	.54	.62	.57	.54	.52
9.0	.62	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.50	.49
10.0	.58	.52	.48	.58	.52	.48	.57	.51	.48	.56	.51	.48	.55	.51	.47	.46



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC-ALL	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.199	.113	.036	.193	.110	.035	.180	.103	.033	.168	.097	.031	.158	.091	.029	
2.0	.191	.105	.032	.185	.102	.031	.174	.097	.030	.164	.092	.029	.155	.088	.028	
3.0	.181	.096	.029	.176	.094	.028	.167	.090	.027	.158	.087	.027	.150	.083	.026	
4.0	.171	.089	.026	.167	.087	.026	.159	.084	.025	.152	.081	.025	.145	.079	.024	
5.0	.163	.083	.024	.159	.082	.024	.152	.079	.023	.145	.077	.023	.139	.074	.022	
6.0	.154	.077	.022	.151	.076	.022	.145	.074	.022	.139	.072	.021	.133	.070	.021	
7.0	.147	.073	.021	.144	.072	.020	.138	.070	.020	.133	.068	.020	.128	.067	.020	
8.0	.140	.068	.019	.137	.068	.019	.132	.066	.019	.128	.065	.019	.123	.063	.018	
9.0	.133	.064	.018	.131	.064	.018	.127	.063	.018	.122	.061	.018	.118	.060	.017	
10.0	.127	.061	.017	.125	.061	.017	.121	.059	.017	.117	.058	.017	.114	.057	.016	

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	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.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	.129	.088	.057	.111	.076	.050	.077	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.116	.071	.040	.100	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.110	.065	.035	.095	.057	.030	.066	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.105	.060	.030	.090	.052	.026	.063	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.086	.048	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-60D-PC-ALL					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	10.3	11.3	10.5	11.5	11.7	9.9	11.0	10.2	11.2	11.3
3H	10.4	11.3	10.6	11.6	11.8	10.2	11.1	10.4	11.3	11.5
4H	10.4	11.3	10.7	11.6	11.8	10.3	11.2	10.5	11.4	11.6
6H	10.5	11.3	10.8	11.6	11.8	10.3	11.2	10.6	11.4	11.7
8H	10.5	11.3	10.8	11.6	11.8	10.3	11.2	10.7	11.4	11.7
12H	10.5	11.3	10.8	11.5	11.8	10.4	11.1	10.7	11.4	11.7
4H 2H	10.2	11.1	10.5	11.4	11.6	9.9	10.8	10.2	11.1	11.3
3H	10.4	11.2	10.8	11.5	11.8	10.3	11.1	10.6	11.3	11.6
4H	10.6	11.3	10.9	11.6	11.9	10.4	11.1	10.8	11.4	11.8
6H	10.7	11.3	11.0	11.6	12.0	10.6	11.2	11.0	11.5	11.9
8H	10.7	11.3	11.1	11.6	12.0	10.6	11.2	11.0	11.6	11.9
12H	10.7	11.3	11.1	11.6	12.0	10.7	11.2	11.1	11.6	12.0
8H 4H	10.6	11.1	10.9	11.5	11.9	10.4	11.0	10.8	11.4	11.7
6H	10.7	11.2	11.1	11.6	12.0	10.6	11.1	11.1	11.5	11.9
8H	10.8	11.2	11.2	11.6	12.1	10.7	11.2	11.2	11.6	12.0
12H	10.9	11.2	11.3	11.7	12.1	10.8	11.2	11.3	11.6	12.1
12H 4H	10.5	11.1	10.9	11.4	11.8	10.4	10.9	10.8	11.3	11.7
6H	10.7	11.1	11.2	11.6	12.0	10.6	11.1	11.1	11.5	11.9
8H	10.8	11.2	11.3	11.6	12.1	10.7	11.1	11.2	11.6	12.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 1.9					+ 1.4 / - 1.7				
1.5H	+ 2.4 / - 1.5					+ 2.3 / - 1.4				
2.0H	+ 2.4 / - 1.8					+ 2.0 / - 1.6				

CIE Pub.117, 24410 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:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

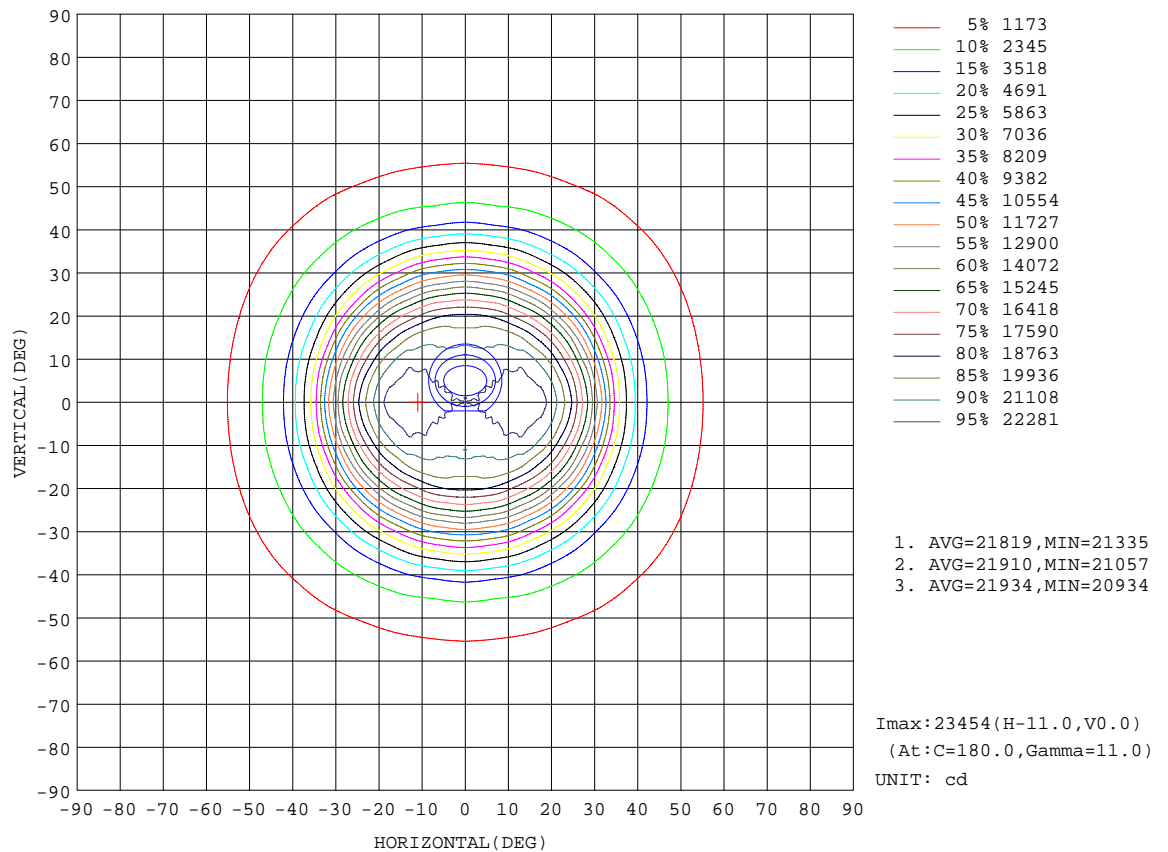
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	81	74	69	81	74	69	80	73	69	65
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	88	84	94	88	84	92	88	83	79
1.25	100	93	89	98	93	89	96	92	88	83
1.50	103	97	93	101	96	93	99	95	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200W oH-3030-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



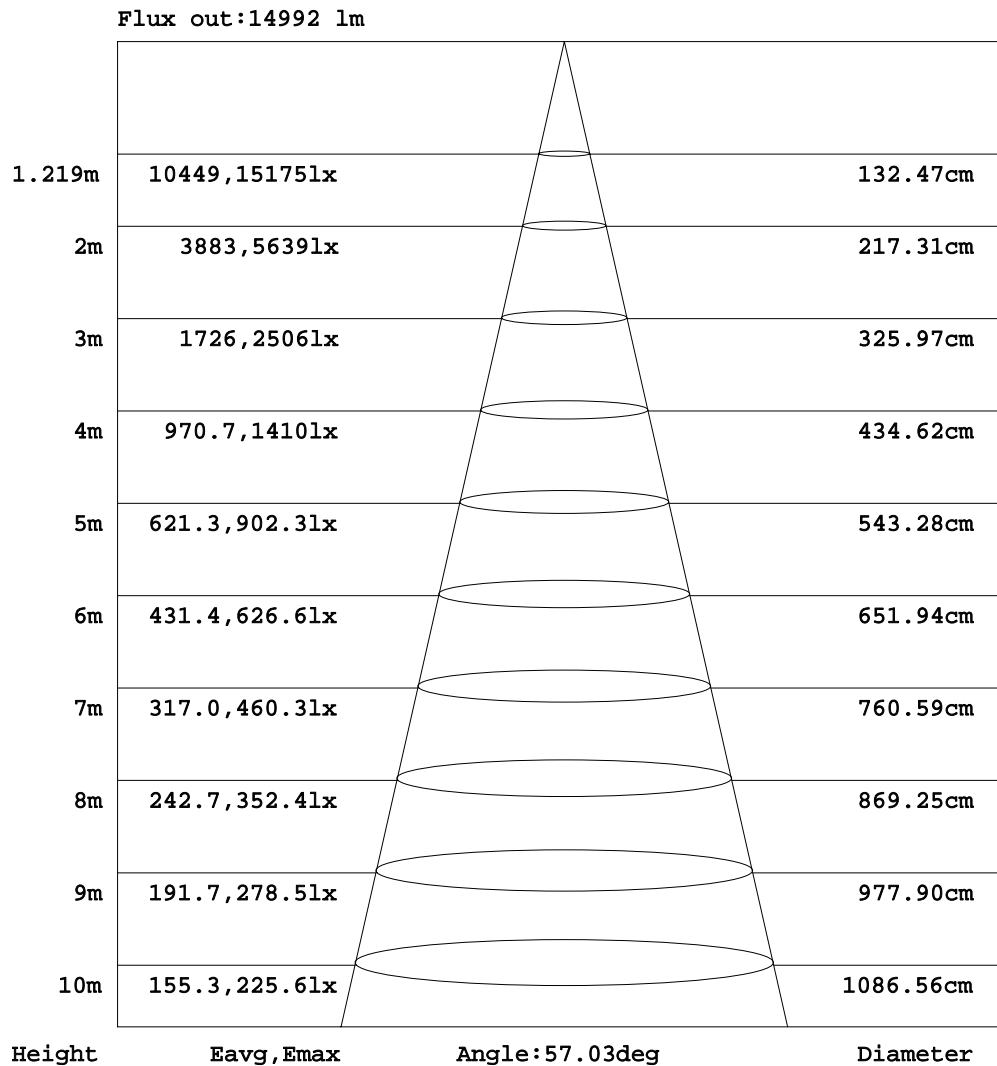
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200W oH-3030-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



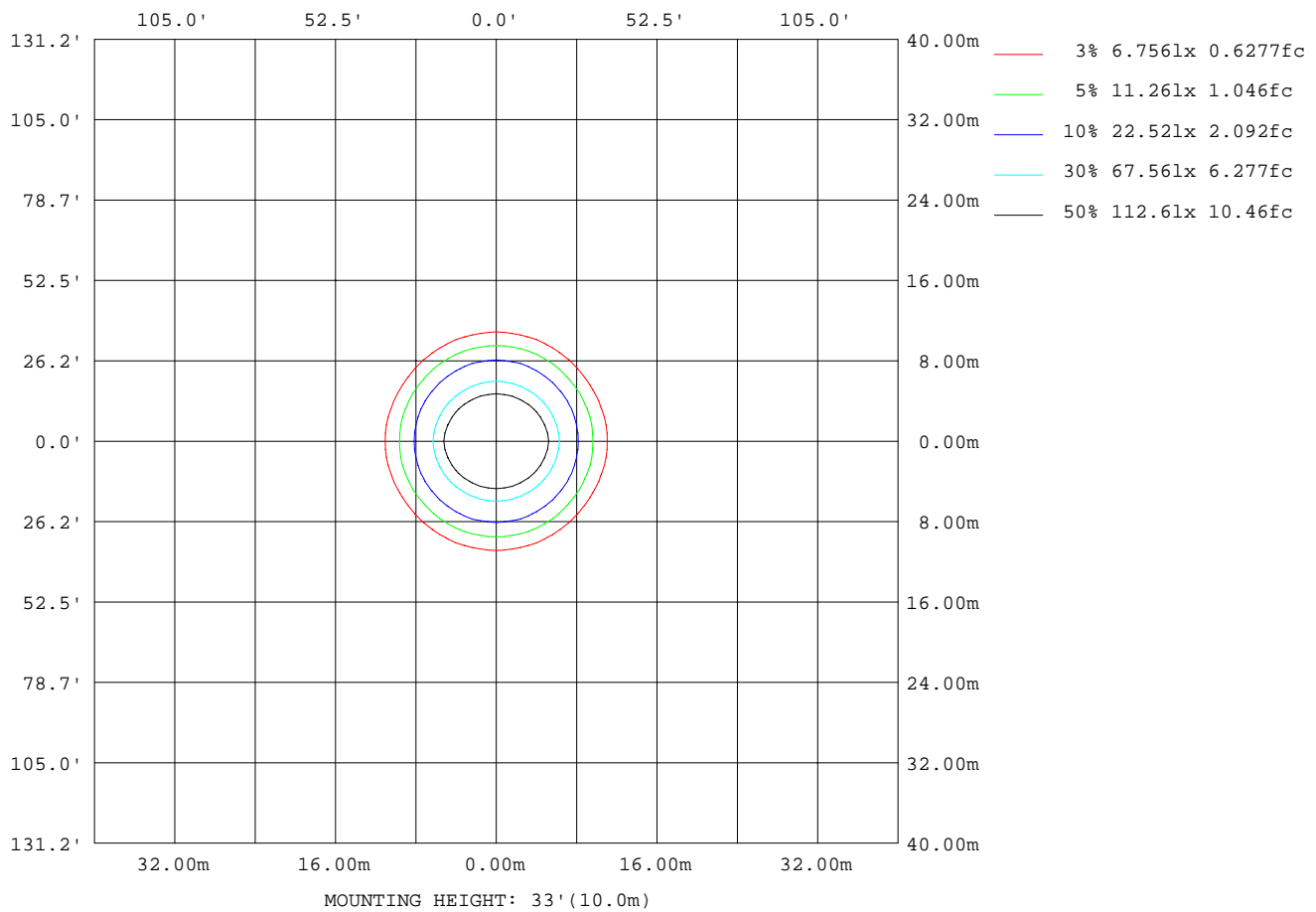
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D-PC-ALL	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: 2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

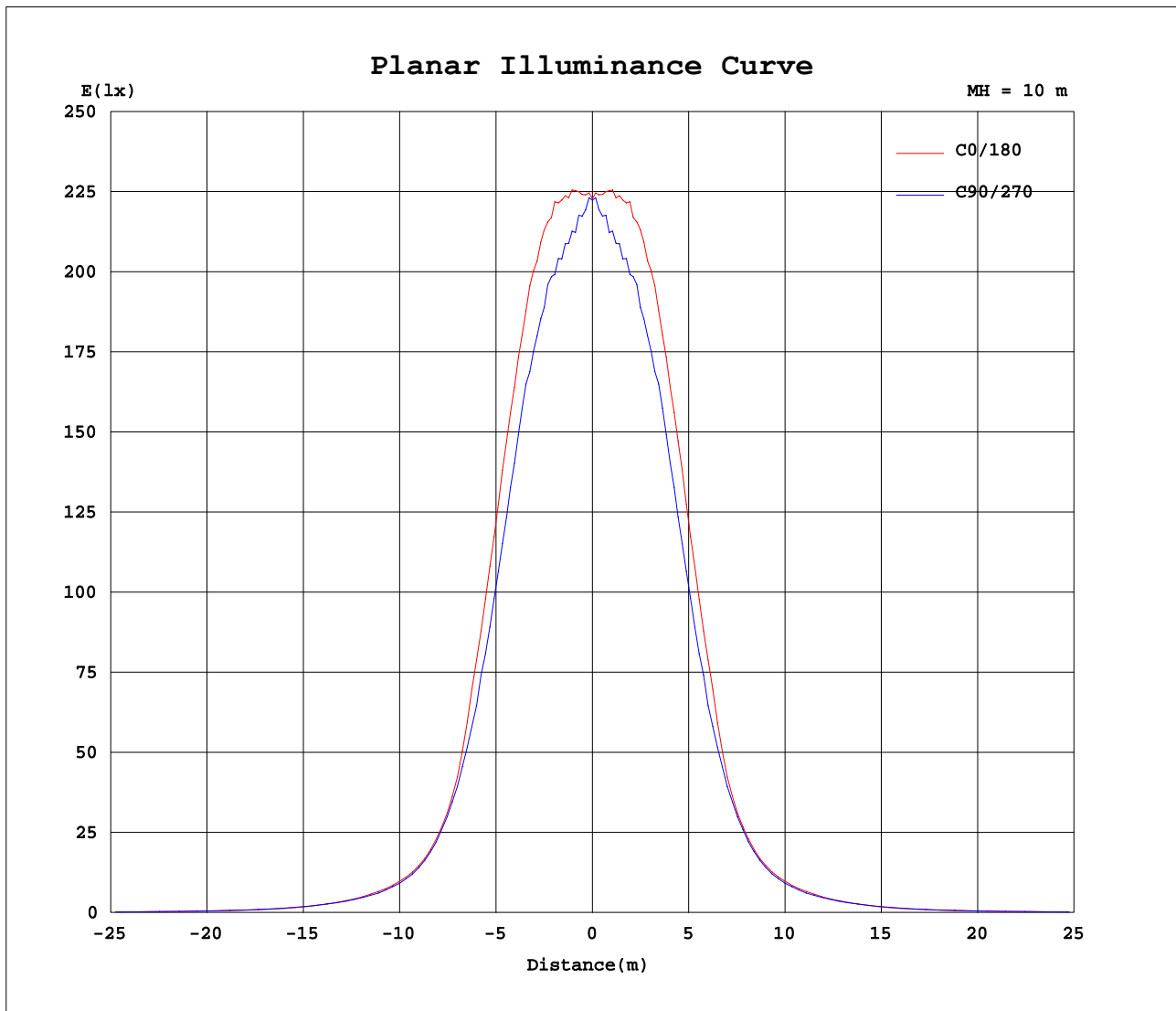
AvgL	cd/m2
L_0~180 (65) av	10893
L_0~180 (75) av	8428
L_0~180 (85) av	7458
L_90~270 (65) av	12452
L_90~270 (75) av	9427
L_90~270 (85) av	8675
L_45 (65) av	11576
L_45 (75) av	8866
L_45 (85) av	7984

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-29

$\gamma$  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: 2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC-ALL	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	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226
5	2277	2242	2257	2204	2208	2202	2198	2185	2181	2149	2181	2185	2198	2202	2208	2204	2257	2242	2277
10	2317	2281	2243	2235	2204	2198	2168	2155	2137	2139	2137	2155	2168	2198	2204	2235	2243	2281	2317
15	2319	2282	2229	2235	2180	2144	2122	2077	2060	2059	2060	2077	2122	2144	2180	2235	2229	2282	2319
20	2171	2156	2100	2041	1998	1980	1952	1933	1917	1900	1917	1933	1952	1980	1998	2041	2100	2156	2171
25	1853	1815	1756	1707	1662	1616	1578	1571	1549	1549	1549	1571	1578	1616	1662	1707	1756	1815	1853
30	1352	1317	1289	1240	1206	1184	1144	1142	1123	1143	1123	1142	1144	1184	1206	1240	1289	1317	1352
35	769	775	755	751	737	738	712	723	716	718	716	723	712	738	737	751	755	775	769
40	437	439	430	432	424	425	416	424	417	423	417	424	416	425	424	432	430	439	437
45	276	275	269	266	257	264	262	264	257	260	257	264	262	264	257	266	269	275	276
50	186	185	179	175	174	178	175	178	176	178	176	178	175	178	174	175	179	185	186
55	119	118	116	114	113	116	114	119	119	122	119	119	114	116	113	114	116	118	119
60	71.4	71.6	69.8	72.2	72.2	73.2	73.6	76.7	76.7	79.0	76.7	76.7	73.6	73.2	72.2	72.2	69.8	71.6	71.4
65	46.0	46.3	46.2	47.8	48.7	49.1	49.6	51.2	51.9	52.6	51.9	51.2	49.6	49.1	48.7	47.8	46.2	46.3	46.0
70	31.9	32.1	32.1	33.0	33.6	34.1	34.4	35.2	35.6	36.2	35.6	35.2	34.4	34.1	33.6	33.0	32.1	32.1	31.9
75	21.8	22.0	22.2	22.5	22.8	23.1	23.3	23.8	23.9	24.4	23.9	23.8	23.3	23.1	22.8	22.5	22.2	22.0	21.8
80	13.3	13.4	13.5	13.7	13.6	13.9	14.2	14.6	14.6	14.9	14.6	14.6	14.2	13.9	13.6	13.7	13.5	13.4	13.3
85	6.50	6.69	6.68	6.88	6.84	7.09	7.18	7.46	7.37	7.56	7.37	7.46	7.18	7.09	6.84	6.88	6.68	6.69	6.50
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: 2017-12-29

$\gamma$  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:220.2V I:0.9676A P:198.2W PF:0.9734 Freq:49.99Hz Lamp Flux:24409.5x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D-PC-ALL	DIM.: $\phi$ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.29M	Shielding Angle:

Table--2

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

C (DEG) $\gamma$ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226		
5	2242	2257	2204	2208	2202	2198	2185	2181	2149	2181	2185	2198	2202	2208	2204	2257	2242		
10	2281	2243	2235	2204	2198	2168	2155	2137	2139	2137	2155	2168	2198	2204	2235	2243	2281		
15	2282	2229	2235	2180	2144	2122	2077	2060	2059	2060	2077	2122	2144	2180	2235	2229	2282		
20	2156	2100	2041	1998	1980	1952	1933	1917	1900	1917	1933	1952	1980	1998	2041	2100	2156		
25	1815	1756	1707	1662	1616	1578	1571	1549	1549	1549	1571	1578	1616	1662	1707	1756	1815		
30	1317	1289	1240	1206	1184	1144	1142	1123	1143	1123	1142	1144	1184	1206	1240	1289	1317		
35	775	755	751	737	738	712	723	716	718	716	723	712	738	737	751	755	775		
40	439	430	432	424	425	416	424	417	423	417	424	416	425	424	432	430	439		
45	275	269	266	257	264	262	264	257	260	257	264	262	264	257	266	269	275		
50	185	179	175	174	178	175	178	176	178	176	178	175	178	174	175	179	185		
55	118	116	114	113	116	114	119	119	122	119	119	114	116	113	114	116	118		
60	71.6	69.8	72.2	72.2	73.2	73.6	76.7	76.7	79.0	76.7	76.7	73.6	73.2	72.2	72.2	69.8	71.6		
65	46.3	46.2	47.8	48.7	49.1	49.6	51.2	51.9	52.6	51.9	51.2	49.6	49.1	48.7	47.8	46.2	46.3		
70	32.1	32.1	33.0	33.6	34.1	34.4	35.2	35.6	36.2	35.6	35.2	34.4	34.1	33.6	33.0	32.1	32.1		
75	22.0	22.2	22.5	22.8	23.1	23.3	23.8	23.9	24.4	23.9	23.8	23.3	23.1	22.8	22.5	22.2	22.0		
80	13.4	13.5	13.7	13.6	13.9	14.2	14.6	14.6	14.9	14.6	14.6	14.2	13.9	13.6	13.7	13.5	13.4		
85	6.69	6.68	6.88	6.84	7.09	7.18	7.46	7.37	7.56	7.37	7.46	7.18	7.09	6.84	6.88	6.68	6.69		
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:2017-12-29

$\gamma$  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: