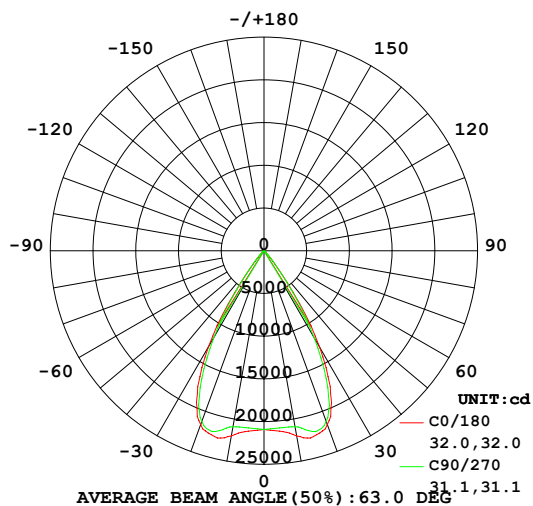


## LUMINAIRE PHOTOMETRIC TEST REPORT

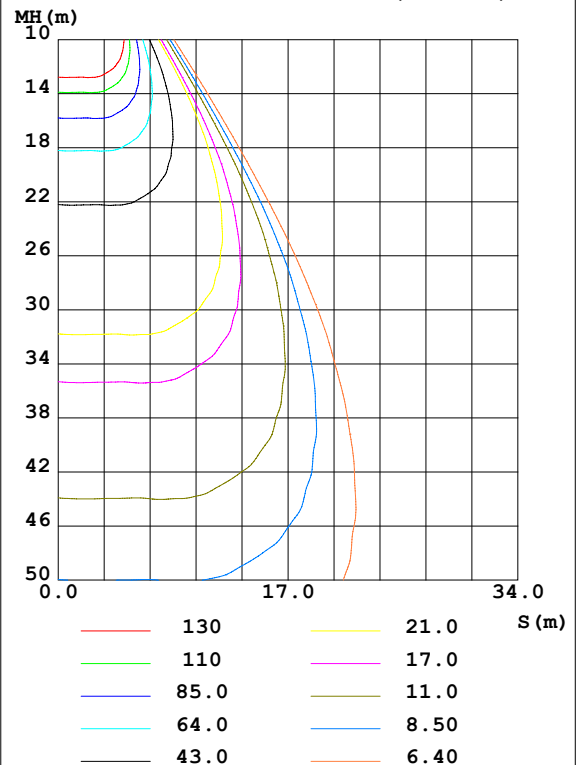
Test:U:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.40 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	22665	S/MH (C0/180)	0.92
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.90
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	20934	$\eta$ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	20934.1	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.70

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	2201	2166	2093	2166	2201	2166	2093	2166	0- 10	2024	2024	9.67,9.67
20	2166	2184	2127	2184	2166	2184	2127	2184	10- 20	6277	8301	39.7,39.7
30	1305	1230	1179	1230	1305	1230	1179	1230	20- 30	8102	16403	78.4,78.4
40	164.1	161.6	178.3	161.6	164.1	161.6	178.3	161.6	30- 40	3727	20130	96.2,96.2
50	17.72	17.43	19.25	17.43	17.72	17.43	19.25	17.43	40- 50	473.8	20604	98.4,98.4
60	12.67	12.34	12.79	12.34	12.67	12.34	12.79	12.34	50- 60	128.6	20733	99,99
70	8.949	8.743	9.248	8.743	8.949	8.743	9.248	8.743	60- 70	106.7	20840	99.5,99.5
80	4.189	3.995	4.254	3.995	4.189	3.995	4.254	3.995	70- 80	68.90	20908	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	25.63	20934	100,100
100	0	0	0	0	0	0	0	0	90-100	0	20934	100,100
110	0	0	0	0	0	0	0	0	100-110	0	20934	100,100
120	0	0	0	0	0	0	0	0	110-120	0	20934	100,100
130	0	0	0	0	0	0	0	0	120-130	0	20934	100,100
140	0	0	0	0	0	0	0	0	130-140	0	20934	100,100
150	0	0	0	0	0	0	0	0	140-150	0	20934	100,100
160	0	0	0	0	0	0	0	0	150-160	0	20934	100,100
170	0	0	0	0	0	0	0	0	160-170	0	20934	100,100
180	0	0	0	0	0	0	0	0	170-180	0	20934	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 20494 lm

%lum = 97.9%

%lamp = 97.9%

Conical surface Flux(120deg): 20733 lm

%lum = 99.0%

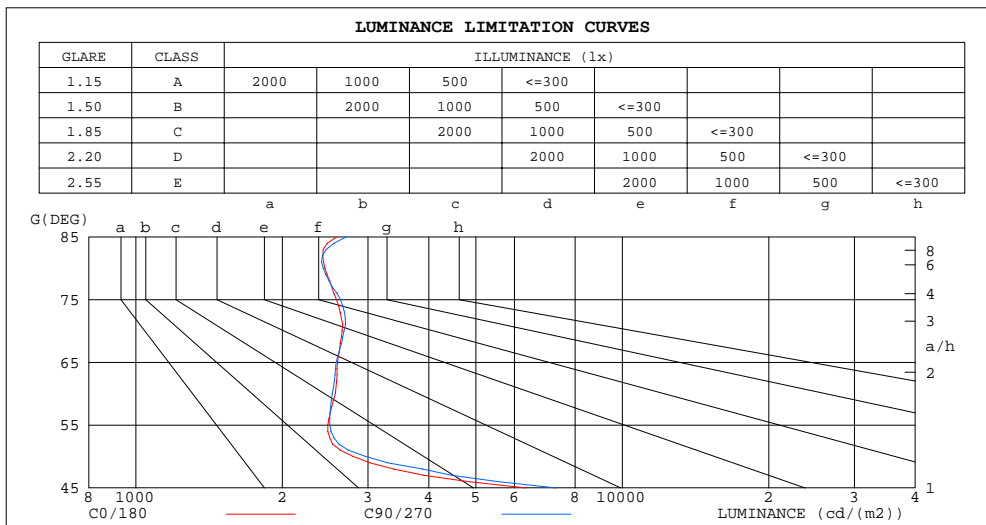
%lamp = 99.0%

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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2589	2708
80	2447	2426
75	2585	2633
70	2654	2678
65	2598	2581
60	2571	2534
55	2481	2503
50	2797	2966
45	6335	7304

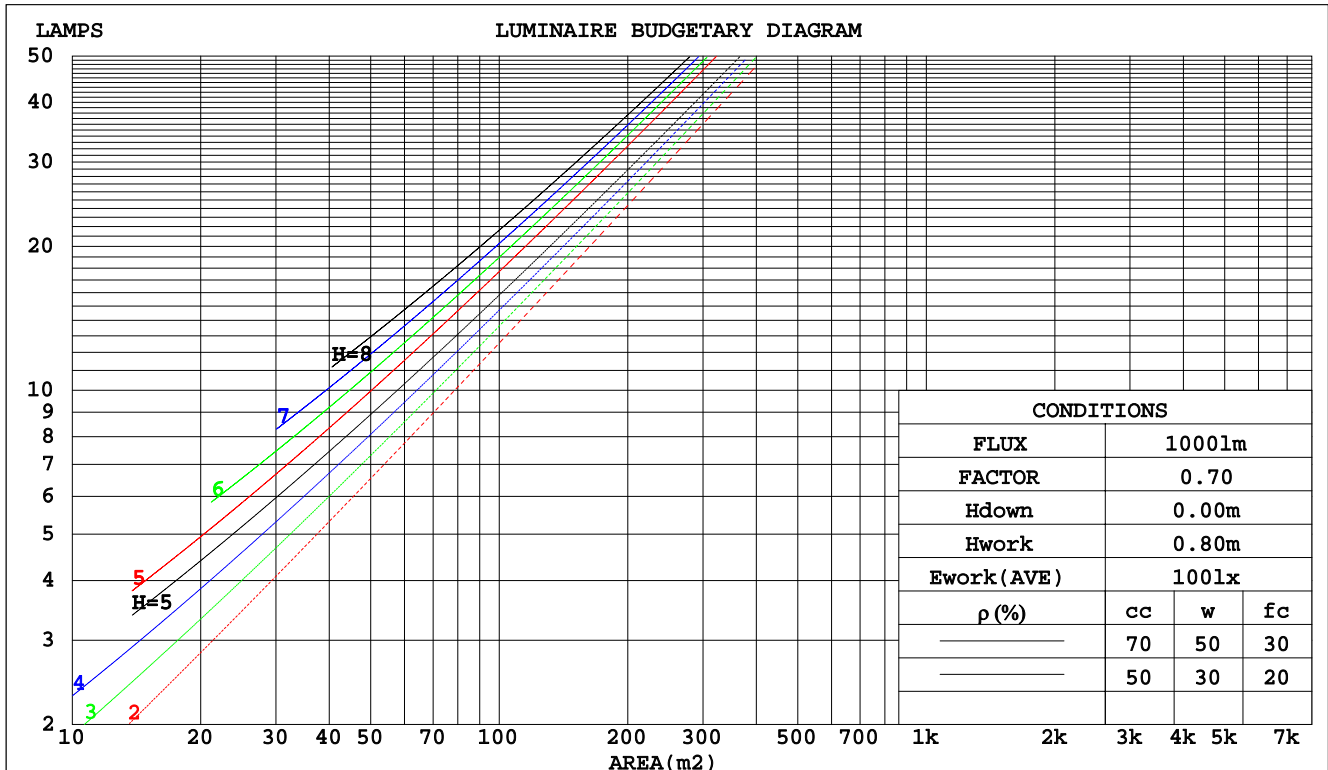
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-01-02

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D-PC-ALL	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	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	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.69	.67
7.0	.76	.70	.66	.75	.69	.65	.74	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.71	.66	.62	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.58	.54	.63	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53



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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D-PC-ALL	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	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	.176	.100	.032	.169	.096	.031	.156	.090	.029	.145	.084	.027	.134	.078	.025	
2.0	.167	.092	.028	.161	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024	
3.0	.159	.084	.025	.154	.082	.025	.145	.079	.024	.137	.075	.023	.129	.071	.022	
4.0	.151	.078	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021	
5.0	.144	.073	.021	.140	.072	.021	.134	.070	.020	.127	.067	.020	.121	.065	.019	
6.0	.137	.069	.020	.134	.068	.020	.128	.066	.019	.123	.064	.019	.118	.062	.018	
7.0	.132	.065	.018	.129	.064	.018	.124	.062	.018	.119	.061	.018	.114	.059	.017	
8.0	.126	.062	.017	.124	.061	.017	.119	.059	.017	.115	.058	.017	.110	.057	.017	
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.055	.016	.107	.054	.016	
10.0	.116	.056	.015	.114	.055	.015	.111	.054	.015	.107	.053	.015	.104	.052	.015	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.054	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm												
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG				
SPEC.:AOK-150WoH-3030-60D-PC-ALL					DIM.: $\phi$ 0.319*0.138M			SERIAL No.:1				
MFR.: AOK					SUR.: $\phi$ 0.24M			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		7.4	8.4	7.6	8.5	8.7	6.7	7.6	6.9	7.8	8.0	
		3H	7.3	8.2	7.6	8.4	8.6	6.6	7.5	6.9	7.7	7.9
		4H	7.3	8.1	7.6	8.3	8.5	6.6	7.4	6.9	7.6	7.8
		6H	7.2	8.0	7.5	8.2	8.5	6.5	7.3	6.8	7.5	7.8
		8H	7.2	7.9	7.5	8.2	8.4	6.5	7.2	6.8	7.5	7.8
12H		7.2	7.9	7.5	8.1	8.4	6.5	7.2	6.8	7.5	7.7	
4H	2H	7.2	8.0	7.5	8.2	8.4	6.5	7.3	6.8	7.5	7.7	
	3H	7.1	7.8	7.4	8.1	8.4	6.4	7.1	6.7	7.4	7.7	
	4H	7.1	7.7	7.4	8.0	8.3	6.4	7.0	6.8	7.3	7.7	
	6H	7.1	7.6	7.4	7.9	8.3	6.4	7.0	6.8	7.3	7.6	
	8H	7.0	7.6	7.4	7.9	8.3	6.4	6.9	6.8	7.3	7.6	
	12H	7.0	7.5	7.4	7.9	8.3	6.4	6.8	6.8	7.2	7.6	
8H	4H	7.0	7.5	7.4	7.8	8.2	6.3	6.8	6.7	7.2	7.5	
	6H	7.0	7.4	7.4	7.8	8.2	6.3	6.7	6.8	7.1	7.6	
	8H	7.0	7.3	7.4	7.8	8.2	6.3	6.7	6.8	7.1	7.6	
	12H	7.0	7.3	7.4	7.7	8.2	6.3	6.7	6.8	7.1	7.6	
12H	4H	6.9	7.4	7.3	7.8	8.2	6.3	6.7	6.7	7.1	7.5	
	6H	6.9	7.3	7.4	7.7	8.2	6.3	6.7	6.7	7.1	7.5	
	8H	6.9	7.3	7.4	7.7	8.2	6.3	6.6	6.8	7.1	7.5	
Variations with the observer position at spacings:												
S = 1.0H		+ 3.9 / - 4.6				+ 3.5 / - 4.7						
1.5H		+ 6.4 / - 4.6				+ 6.0 / - 4.7						
2.0H		+ 2.0 / - 0.4				+ 2.5 / - 0.5						

CIE Pub.117, 20934 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 10.6$ )

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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

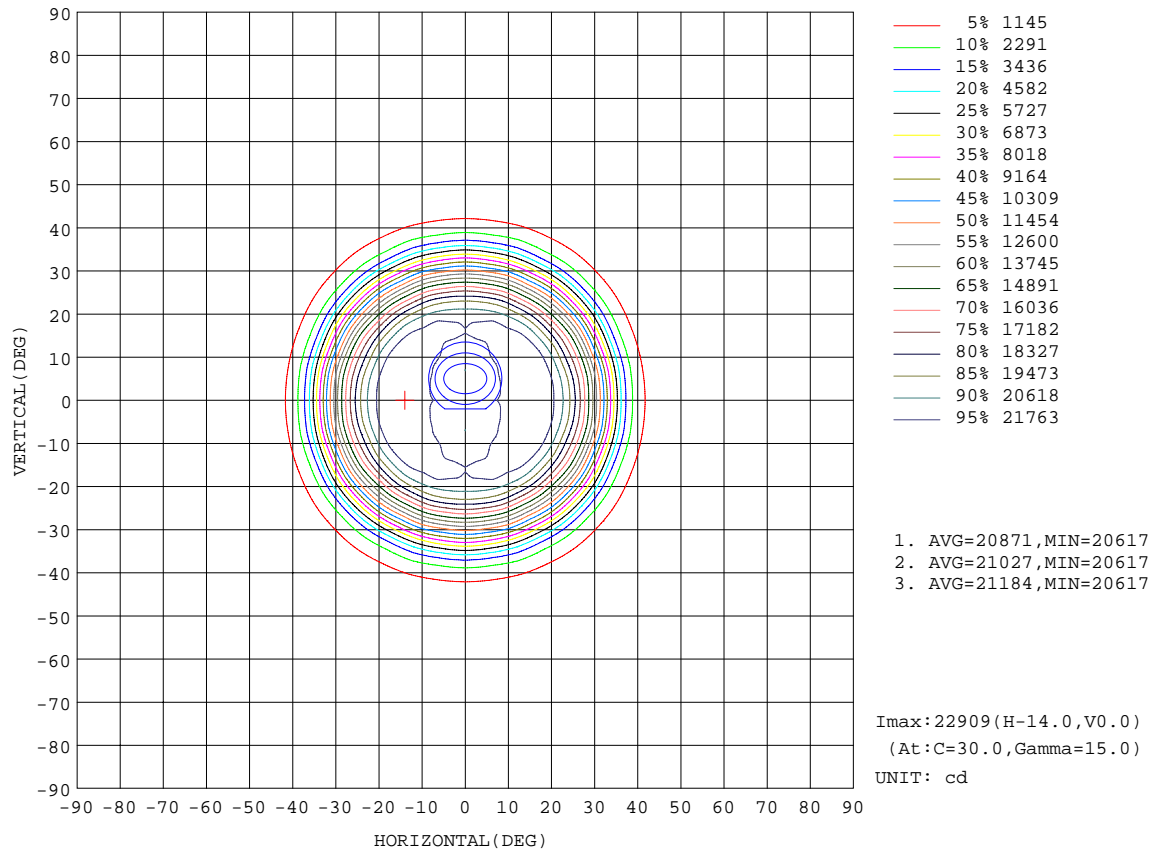
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	91
1.50	107	102	99	105	101	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



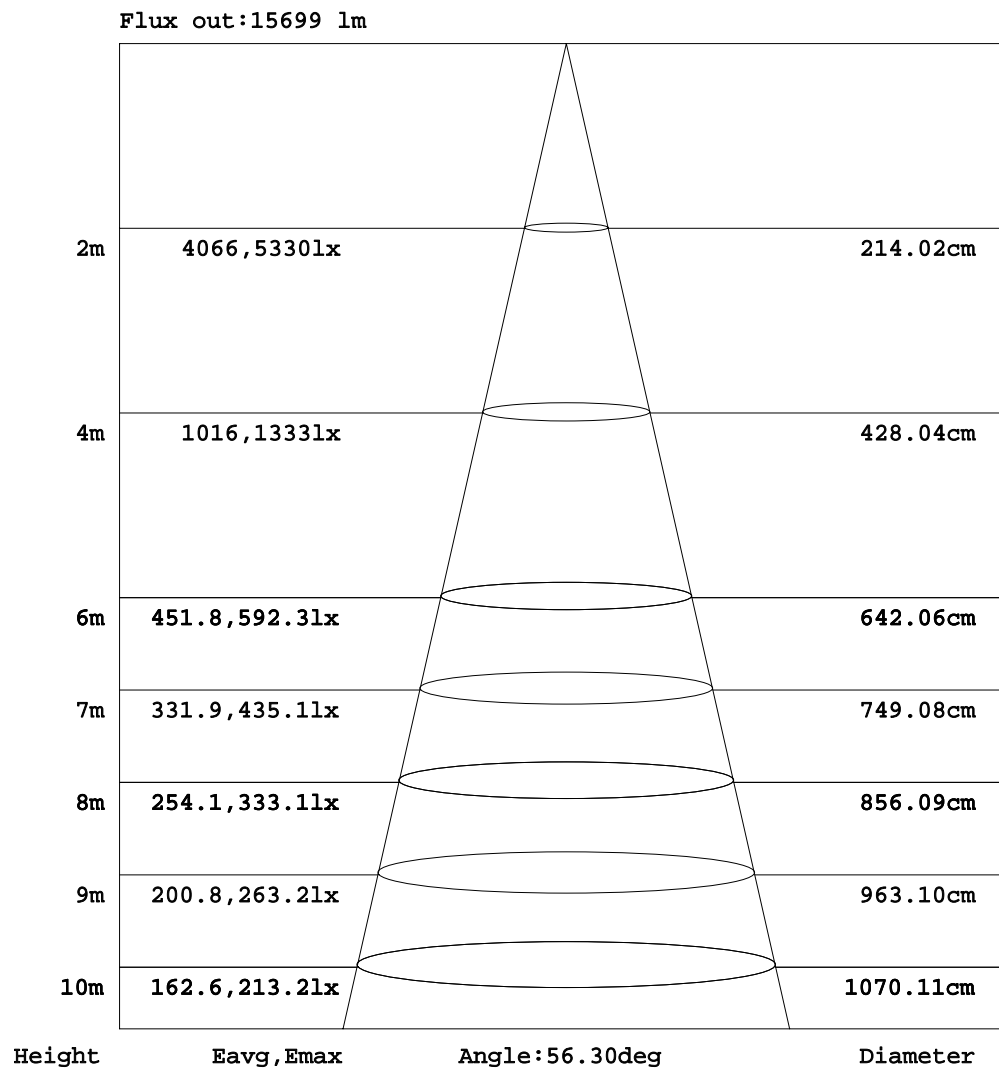
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-01-02

$\gamma$  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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



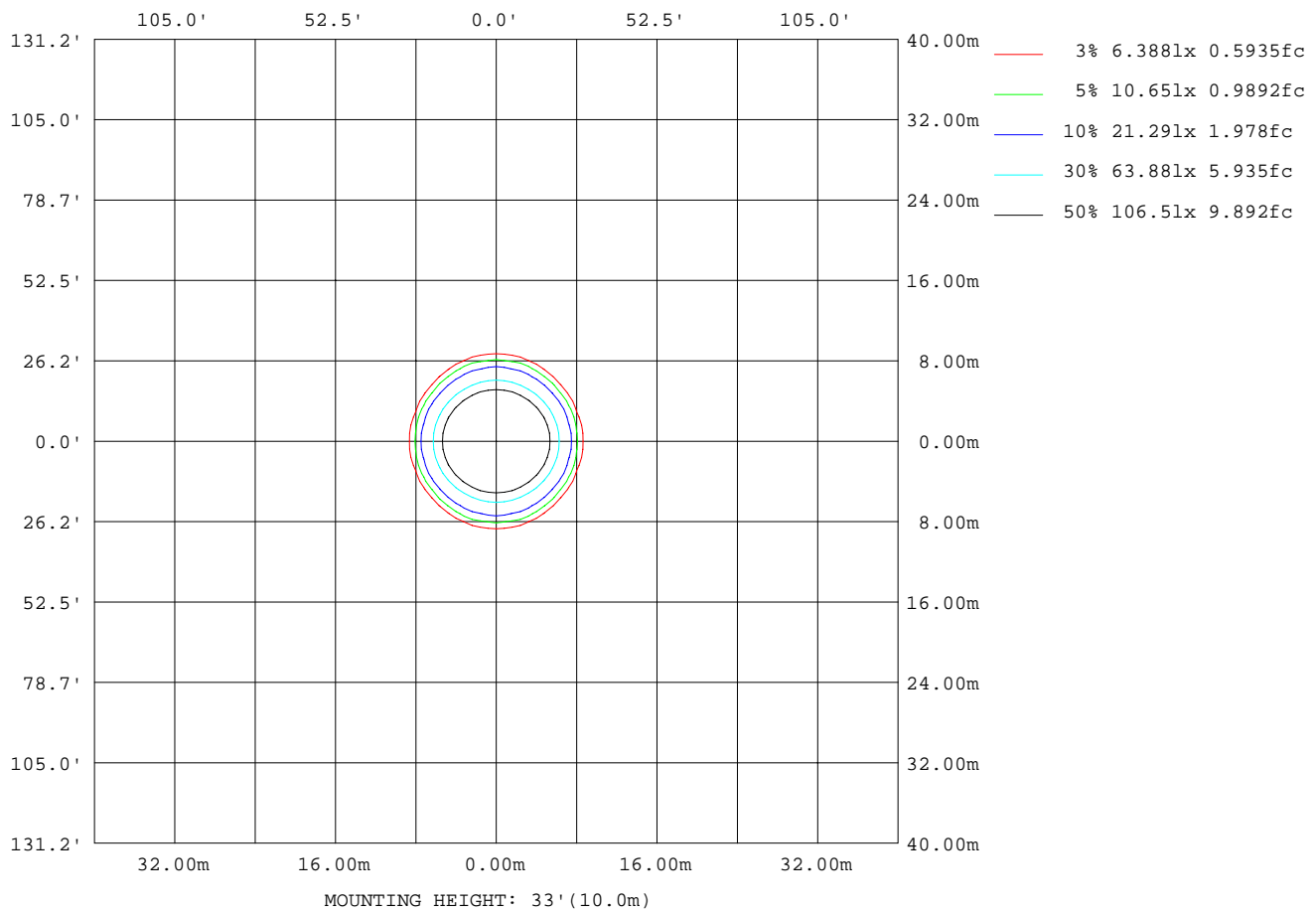
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date: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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

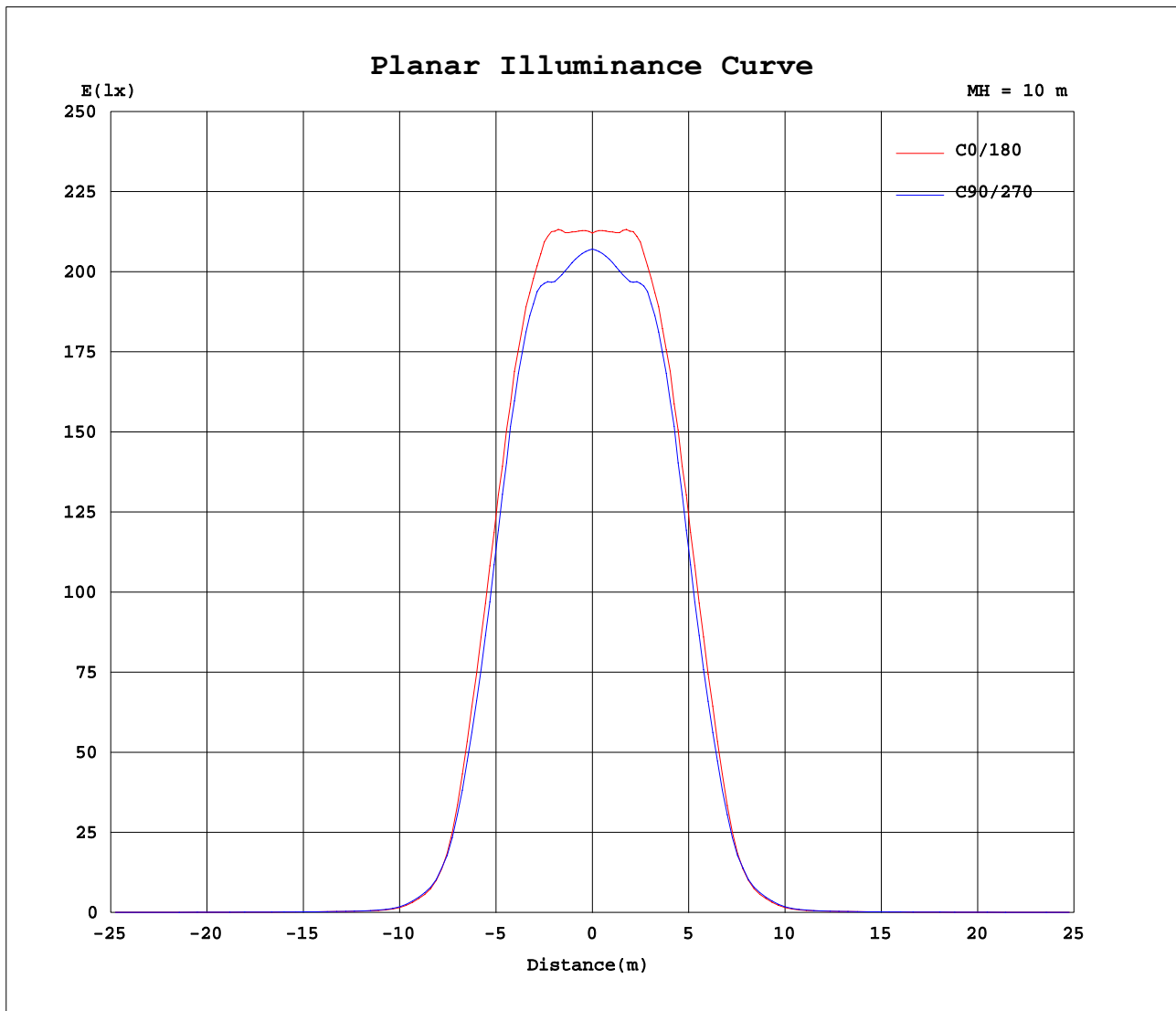
AvgL	cd/m2
L_0~180 (65) av	2561
L_0~180 (75) av	2548
L_0~180 (85) av	2552
L_90~270 (65) av	2605
L_90~270 (75) av	2658
L_90~270 (85) av	2734
L_45 (65) av	2495
L_45 (75) av	2444
L_45 (85) av	2534

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:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Table--1

UNIT:  $\times 10cd$ 

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091
5	2119	2118	2116	2112	2108	2104	2099	2093	2088	2083	2088	2093	2099	2104	2108	2112	2116	2118	2119
10	2201	2206	2202	2194	2178	2154	2135	2116	2104	2093	2104	2116	2135	2154	2178	2194	2202	2206	2201
15	2249	2262	2256	2267	2264	2250	2221	2205	2205	2191	2205	2205	2221	2250	2264	2267	2256	2262	2249
20	2166	2184	2187	2192	2187	2181	2159	2173	2143	2127	2143	2173	2159	2181	2187	2192	2187	2184	2166
25	1845	1854	1834	1834	1822	1814	1790	1795	1774	1770	1774	1795	1790	1814	1822	1834	1834	1854	1845
30	1305	1331	1299	1286	1244	1215	1178	1202	1172	1179	1172	1202	1178	1215	1244	1286	1299	1331	1305
35	599	606	588	589	563	552	536	557	547	561	547	557	536	552	563	589	588	606	599
40	164	164	159	160	160	163	167	175	178	178	178	175	167	163	160	160	159	164	164
45	44.2	45.3	43.5	45.1	44.6	46.3	45.7	50.5	49.8	52.1	49.8	50.5	45.7	46.3	44.6	45.1	43.5	45.3	44.2
50	17.7	17.9	17.5	17.4	17.3	17.6	17.4	18.2	18.7	19.2	18.7	18.2	17.4	17.6	17.3	17.4	17.5	17.9	17.7
55	14.0	13.9	13.8	13.7	13.8	14.0	14.2	14.5	14.6	14.5	14.6	14.5	14.2	14.0	13.8	13.7	13.8	13.9	14.0
60	12.7	12.5	12.3	12.2	12.3	12.4	12.6	12.9	12.9	12.8	12.9	12.9	12.6	12.4	12.3	12.2	12.3	12.5	12.7
65	10.8	10.8	10.6	10.5	10.5	10.6	10.8	11.2	11.1	11.0	11.1	11.2	10.8	10.6	10.5	10.5	10.6	10.8	10.8
70	8.95	8.99	8.83	8.77	8.75	8.74	8.94	9.27	9.22	9.25	9.22	9.27	8.94	8.74	8.75	8.77	8.83	8.99	8.95
75	6.60	6.63	6.45	6.45	6.29	6.39	6.43	6.68	6.74	6.88	6.74	6.68	6.43	6.39	6.29	6.45	6.45	6.63	6.60
80	4.19	4.22	4.14	4.13	3.99	4.00	3.95	4.04	4.11	4.25	4.11	4.04	3.95	4.00	3.99	4.13	4.14	4.22	4.19
85	2.22	2.23	2.20	2.23	2.21	2.21	2.16	2.24	2.29	2.38	2.29	2.24	2.16	2.21	2.21	2.23	2.20	2.23	2.22
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

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.7333A P:149.1W PF:0.9582 Freq:49.99Hz Lamp Flux:20934.1x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-60D-PC-ALL									DIM.: $\phi$ 0.319*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.24M						Shielding Angle:		

Table--2

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

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091	2091		
5	2118	2116	2112	2108	2104	2099	2093	2088	2083	2088	2093	2099	2104	2108	2112	2116	2118		
10	2206	2202	2194	2178	2154	2135	2116	2104	2093	2104	2116	2135	2154	2178	2194	2202	2206		
15	2262	2256	2267	2264	2250	2221	2205	2205	2191	2205	2205	2221	2250	2264	2267	2256	2262		
20	2184	2187	2192	2187	2181	2159	2173	2143	2127	2143	2173	2159	2181	2187	2192	2187	2184		
25	1854	1834	1834	1822	1814	1790	1795	1774	1770	1774	1795	1790	1814	1822	1834	1834	1854		
30	1331	1299	1286	1244	1215	1178	1202	1172	1179	1172	1202	1178	1215	1244	1286	1299	1331		
35	606	588	589	563	552	536	557	547	561	547	557	536	552	563	589	588	606		
40	164	159	160	160	163	167	175	178	178	178	175	167	163	160	160	159	164		
45	45.3	43.5	45.1	44.6	46.3	45.7	50.5	49.8	52.1	49.8	50.5	45.7	46.3	44.6	45.1	43.5	45.3		
50	17.9	17.5	17.4	17.3	17.6	17.4	18.2	18.7	19.2	18.7	18.2	17.4	17.6	17.3	17.4	17.5	17.9		
55	13.9	13.8	13.7	13.8	14.0	14.2	14.5	14.6	14.5	14.6	14.5	14.2	14.0	13.8	13.7	13.8	13.9		
60	12.5	12.3	12.2	12.3	12.4	12.6	12.9	12.9	12.8	12.9	12.9	12.6	12.4	12.3	12.2	12.3	12.5		
65	10.8	10.6	10.5	10.5	10.6	10.8	11.2	11.1	11.0	11.1	11.2	10.8	10.6	10.5	10.5	10.6	10.8		
70	8.99	8.83	8.77	8.75	8.74	8.94	9.27	9.22	9.25	9.22	9.27	8.94	8.74	8.75	8.77	8.83	8.99		
75	6.63	6.45	6.45	6.29	6.39	6.43	6.68	6.74	6.88	6.74	6.68	6.43	6.39	6.29	6.45	6.45	6.63		
80	4.22	4.14	4.13	3.99	4.00	3.95	4.04	4.11	4.25	4.11	4.04	3.95	4.00	3.99	4.13	4.14	4.22		
85	2.23	2.20	2.23	2.21	2.21	2.16	2.24	2.29	2.38	2.29	2.24	2.16	2.21	2.21	2.23	2.20	2.23		
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: