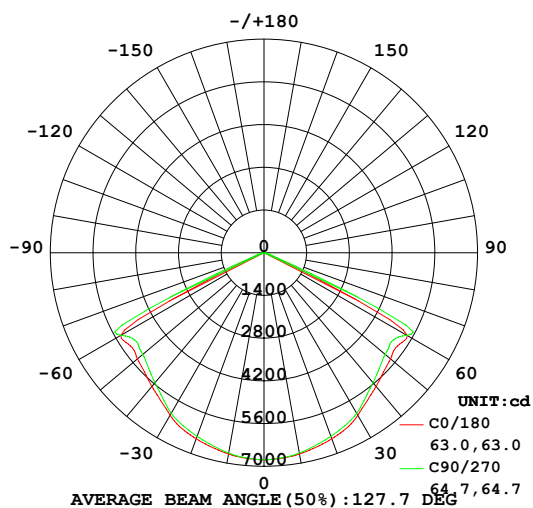


## LUMINAIRE PHOTOMETRIC TEST REPORT

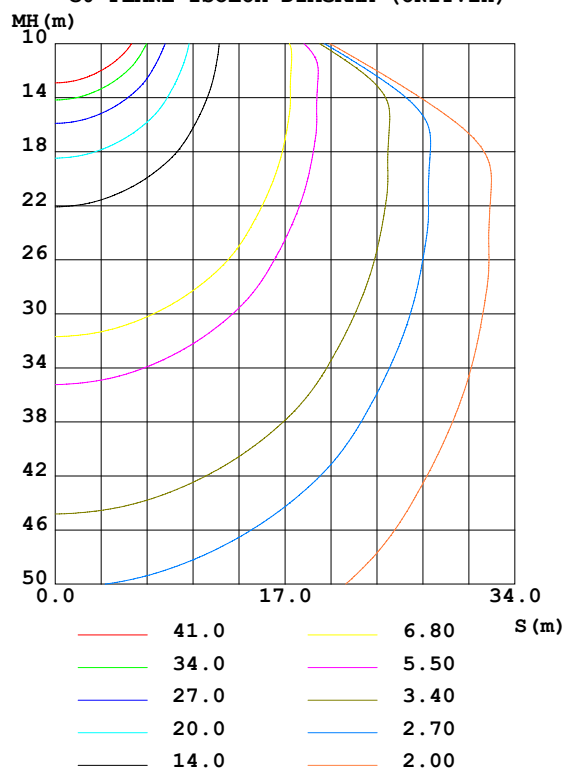
Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.10 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	6788	S/MH (C0/180)	1.35
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.33
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	20584	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	20584.2	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.35

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:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	6695	6656	6663	6656	6695	6656	6663	6656	0- 10	641.4	641.4	3.12, 3.12
20	6489	6399	6405	6399	6489	6399	6405	6399	10- 20	1851	2492	12.1, 12.1
30	6152	6061	6078	6061	6152	6061	6078	6061	20- 30	2896	5388	26.2, 26.2
40	5716	5551	5558	5551	5716	5551	5558	5551	30- 40	3650	9038	43.9, 43.9
50	5416	5191	5187	5191	5416	5191	5187	5191	40- 50	4169	13207	64.2, 64.2
60	5417	5464	5405	5464	5417	5464	5405	5464	50- 60	4680	17886	86.9, 86.9
70	221.8	259.7	317.3	259.7	221.8	259.7	317.3	259.7	60- 70	2534	20420	99.2, 99.2
80	43.22	53.43	67.25	53.43	43.22	53.43	67.25	53.43	70- 80	148.9	20569	99.9, 99.9
90	0	0	0	0	0	0	0	0	80- 90	14.91	20584	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	20584	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	20584	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	20584	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	20584	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	20584	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	20584	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	20584	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	20584	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	20584	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11066 lm

%lum = 53.8%

%lamp = 53.8%

Conical surface Flux(120deg): 17886 lm

%lum = 86.9%

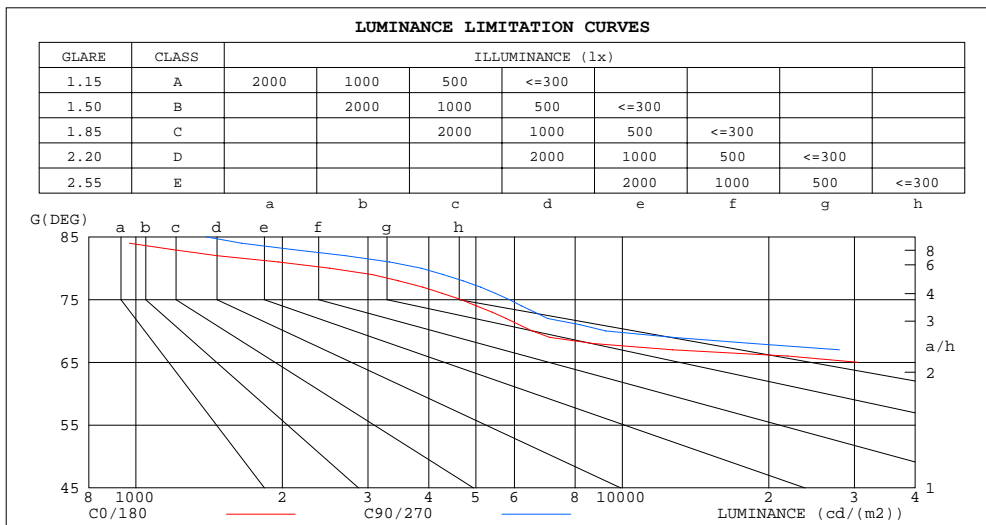
%lamp = 86.9%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-28

$\gamma$  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=0.9825]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi$ 0.318*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	625	1393
80	2503	3858
75	4661	5854
70	6523	9242
65	30494	69799
60	108981	107683
55	93545	88458
50	84759	80392
45	78755	75330

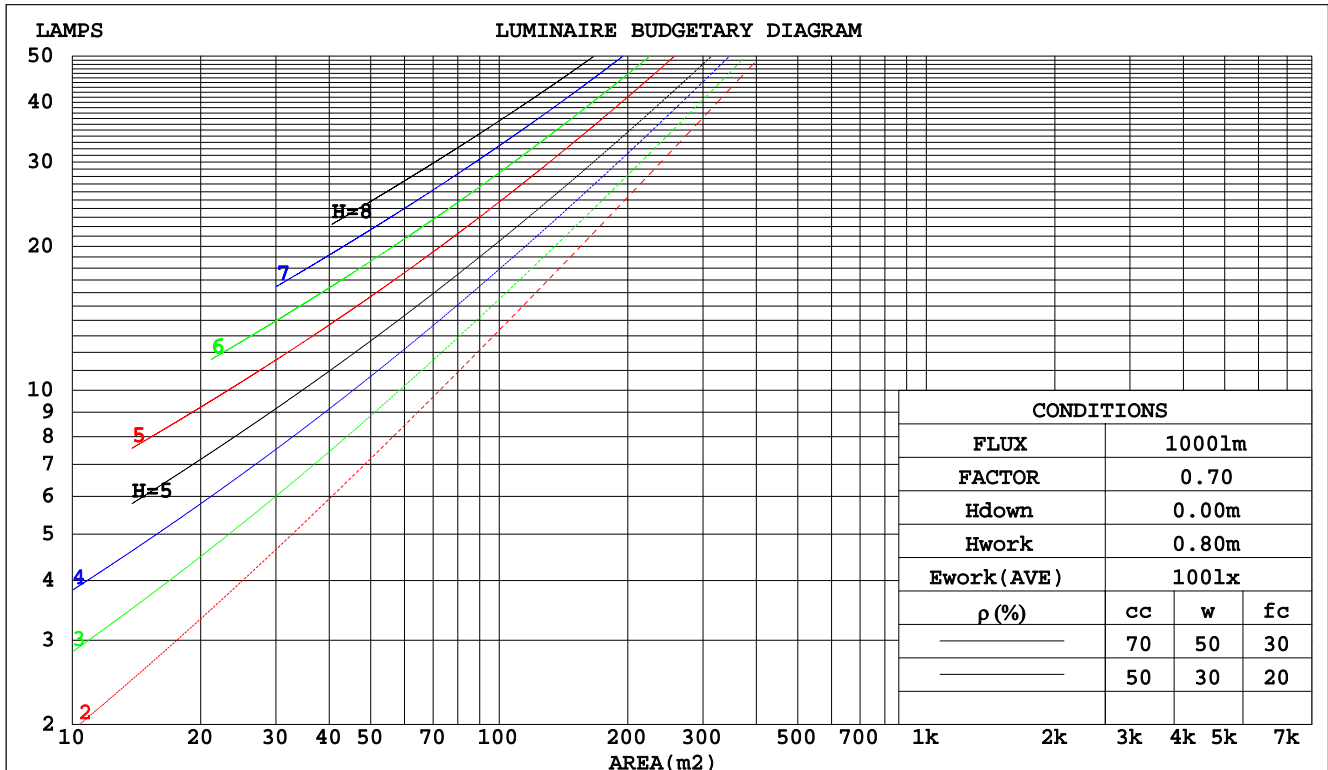
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	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	1.06	1.02	.99	1.04	1.00	.97	.00	.97	.94	.96	.94	.91	.92	.90	.89	.87
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.85	.81	.77	.82	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.55	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.47	.57	.51	.47	.45
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.38	.32	.44	.37	.32	.43	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-28

$\gamma$  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=0.9825]  
 Remarks:

## WEC AND CCEC

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi$ 0.318*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	.268	.152	.048	.261	.149	.047	.248	.142	.045	.236	.136	.044	.225	.130	.042		
2.0	.266	.146	.045	.260	.143	.044	.248	.138	.043	.238	.133	.042	.228	.129	.041		
3.0	.254	.135	.041	.249	.133	.040	.239	.129	.039	.229	.126	.039	.221	.122	.038		
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.218	.117	.035	.210	.114	.035		
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032		
6.0	.211	.106	.030	.207	.104	.030	.200	.102	.030	.193	.100	.029	.187	.098	.029		
7.0	.197	.098	.028	.194	.097	.028	.187	.095	.027	.181	.093	.027	.176	.091	.027		
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG			
SPEC.:AOK-150WoH					DIM.: $\phi$ 0.318*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		19.4	20.9	19.6	21.1	21.3	19.6	21.1	19.9	21.3	21.5
	3H	19.2	20.6	19.5	20.8	21.1	19.6	21.0	19.9	21.2	21.4
	4H	19.1	20.4	19.4	20.7	20.9	19.5	20.8	19.8	21.0	21.3
	6H	19.0	20.2	19.3	20.5	20.8	19.4	20.6	19.7	20.9	21.2
	8H	19.0	20.1	19.3	20.4	20.7	19.3	20.5	19.7	20.8	21.1
	12H	18.9	20.0	19.3	20.3	20.6	19.3	20.4	19.6	20.7	21.0
4H	2H	19.7	21.0	20.0	21.3	21.5	19.9	21.2	20.2	21.5	21.7
	3H	19.6	20.7	19.9	21.0	21.3	19.9	21.0	20.3	21.3	21.6
	4H	19.5	20.5	19.9	20.8	21.2	19.8	20.8	20.2	21.2	21.5
	6H	19.4	20.3	19.8	20.7	21.0	19.8	20.6	20.1	21.0	21.4
	8H	19.4	20.2	19.8	20.6	20.9	19.7	20.5	20.1	20.9	21.3
	12H	19.3	20.1	19.8	20.5	20.9	19.7	20.4	20.1	20.8	21.2
8H	4H	19.4	20.2	19.8	20.6	20.9	19.7	20.5	20.1	20.9	21.3
	6H	19.3	20.0	19.7	20.4	20.8	19.6	20.3	20.1	20.7	21.1
	8H	19.3	19.8	19.7	20.3	20.7	19.6	20.2	20.1	20.6	21.1
	12H	19.2	19.7	19.7	20.2	20.6	19.6	20.1	20.0	20.5	21.0
12H	4H	19.3	20.1	19.8	20.5	20.9	19.7	20.4	20.1	20.8	21.2
	6H	19.3	19.8	19.7	20.3	20.7	19.6	20.2	20.1	20.6	21.1
	8H	19.2	19.7	19.7	20.2	20.6	19.6	20.1	20.0	20.5	21.0
Variations with the observer position at spacings:											
S = 1.0H		+ 1.0 / - 0.9					+ 1.0 / - 1.2				
1.5H		+ 1.5 / - 2.7					+ 1.3 / - 2.3				
2.0H		+ 1.7 / - 3.0					+ 1.7 / - 3.2				

CIE Pub.117, 20584 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 10.5$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

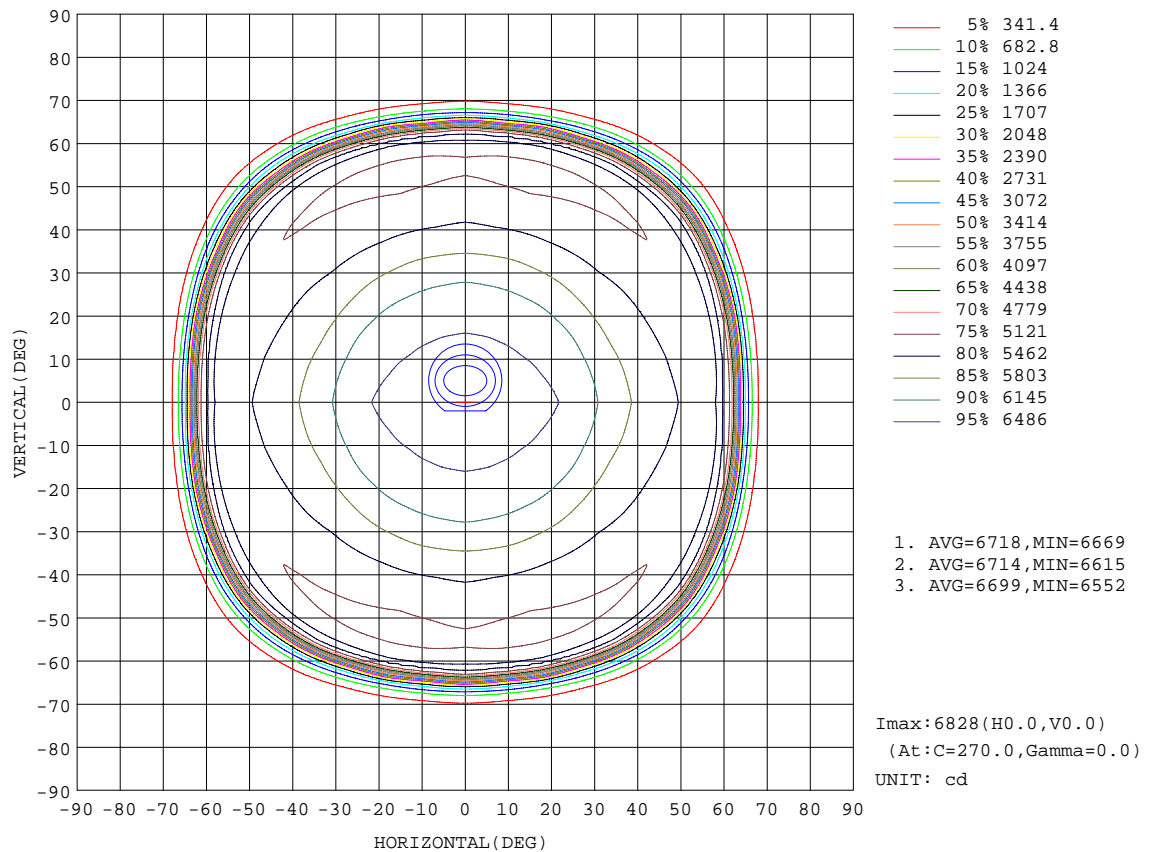
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	36	30
0.80	67	55	48	66	55	48	64	54	47	40
1.00	77	66	59	76	65	58	73	67	58	51
1.25	85	74	68	83	74	67	81	72	66	59
1.50	90	80	74	88	80	73	85	78	72	65
2.00	97	89	83	95	88	82	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	94	90	82
4.00	108	103	99	106	101	97	101	98	95	86
5.00	110	106	102	108	104	101	103	100	97	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



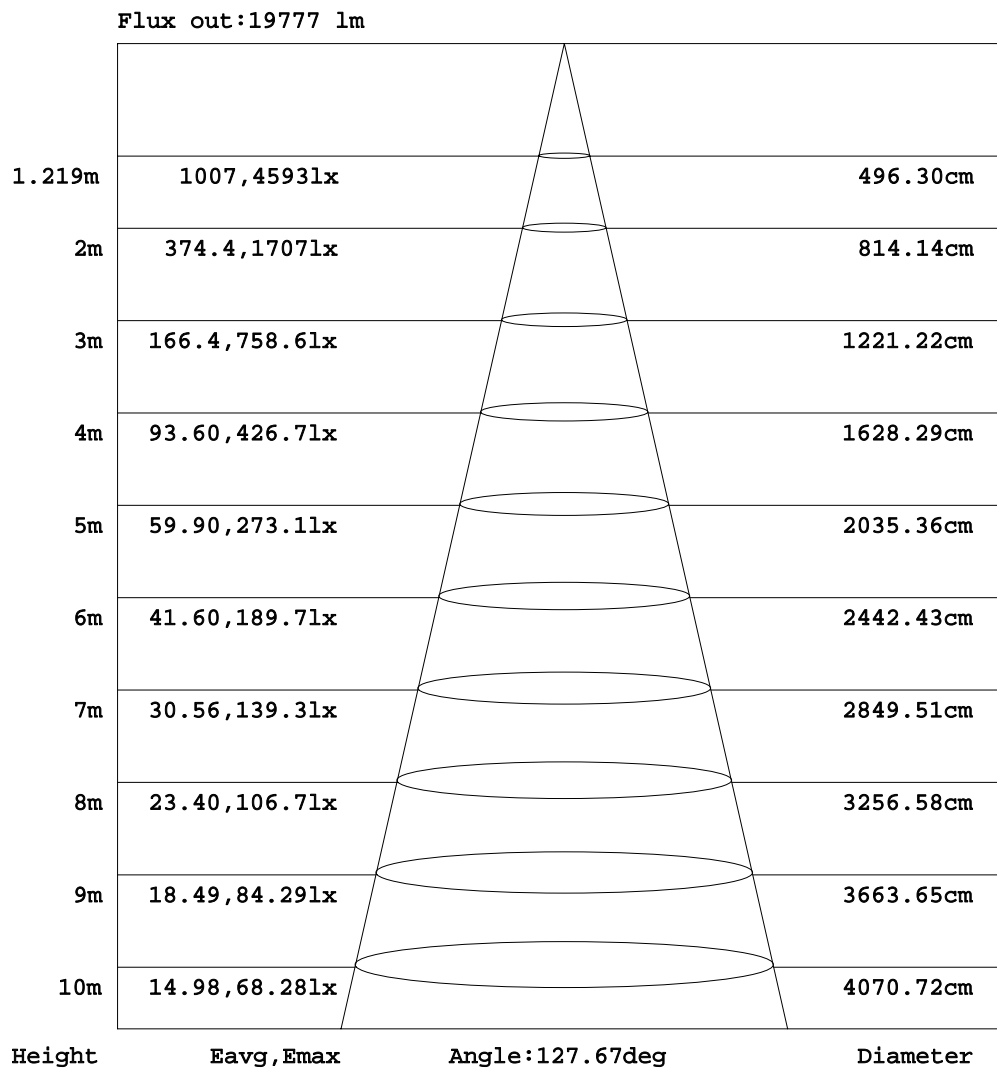
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:



### AAI Figure

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



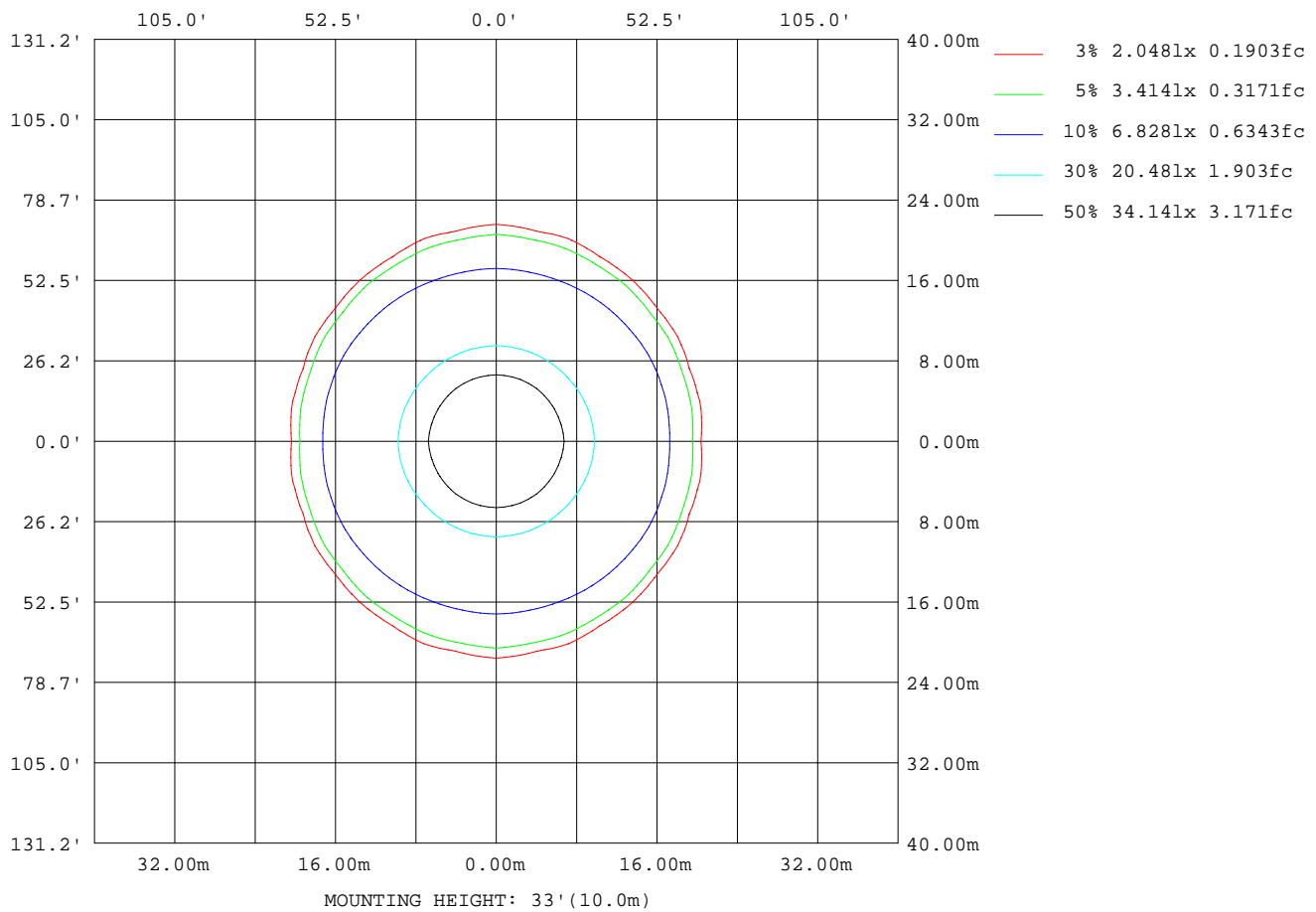
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## ISOLUX DIAGRAM

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\Phi 0.318 \times 0.138\text{M}$	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: 2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## LED Avg.L Report

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi$ 0.318*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

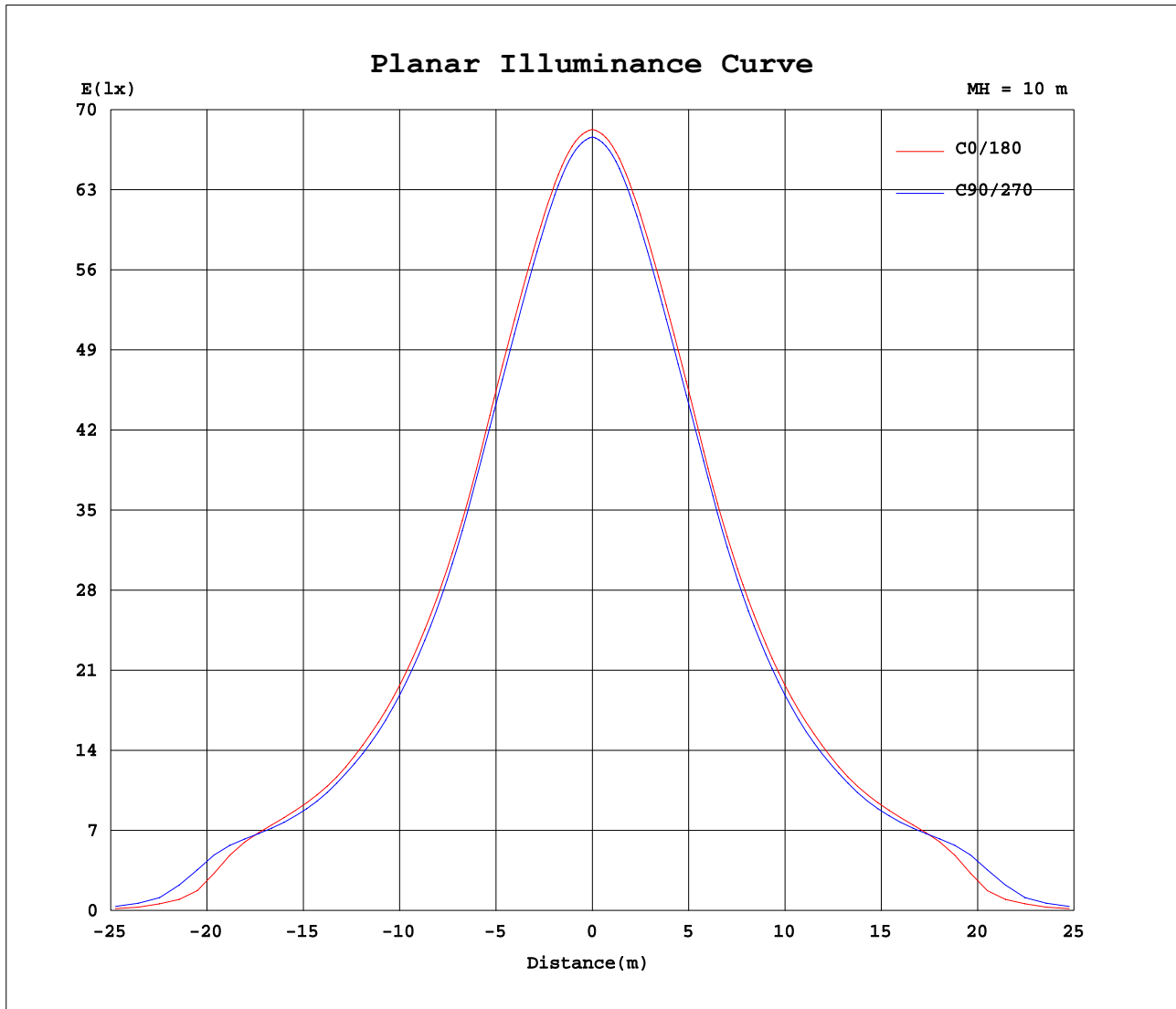
AvgL	cd/m2
L_0~180 (65) av	30316
L_0~180 (75) av	4633
L_0~180 (85) av	621
L_90~270 (65) av	70068
L_90~270 (75) av	5876
L_90~270 (85) av	1399
L_45 (65) av	43274
L_45 (75) av	5294
L_45 (85) av	902

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-28

$\gamma$  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=0.9825]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm																		
NAME: AOK oH									TYPE:LED					WEIGHT:4.6KG				
SPEC.:AOK-150WoH									DIM.: $\phi$ 0.318*0.138M					SERIAL No.:1				
MFR.: AOK									SUR.: $\phi$ 0.24M					Shielding Angle:				

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788
5	6760	6756	6751	6747	6743	6742	6741	6742	6744	6748	6744	6742	6741	6742	6743	6747	6751	6756	6760
10	6695	6684	6671	6665	6657	6656	6652	6656	6655	6663	6655	6656	6652	6656	6657	6665	6671	6684	6695
15	6599	6580	6559	6548	6534	6531	6525	6529	6529	6538	6529	6529	6525	6531	6534	6548	6559	6580	6599
20	6489	6463	6439	6422	6403	6395	6389	6390	6392	6405	6392	6390	6389	6395	6403	6422	6439	6463	6489
25	6362	6333	6302	6281	6260	6251	6242	6243	6246	6259	6246	6243	6242	6251	6260	6281	6302	6333	6362
30	6152	6117	6083	6074	6059	6063	6060	6065	6065	6078	6065	6065	6060	6063	6059	6074	6083	6117	6152
35	5908	5873	5826	5805	5796	5797	5788	5797	5790	5800	5790	5797	5788	5797	5796	5805	5826	5873	5908
40	5716	5671	5639	5603	5558	5544	5531	5533	5533	5558	5533	5533	5531	5544	5558	5603	5639	5671	5716
45	5536	5506	5456	5409	5349	5324	5305	5302	5304	5347	5304	5302	5305	5324	5349	5409	5456	5506	5536
50	5416	5384	5321	5261	5215	5167	5150	5135	5156	5187	5156	5135	5150	5167	5215	5261	5321	5384	5416
55	5334	5279	5203	5137	5115	5086	5064	5055	5059	5093	5059	5055	5064	5086	5115	5137	5203	5279	5334
60	5417	5477	5522	5528	5478	5449	5423	5380	5383	5405	5383	5380	5423	5449	5478	5528	5522	5477	5417
65	1281	1438	1485	1677	1726	1935	2016	2637	2368	2961	2368	2637	2016	1935	1726	1677	1485	1438	1281
70	222	235	231	253	243	276	259	278	288	317	288	278	259	276	243	253	231	235	222
75	120	123	125	131	134	140	142	146	148	152	148	146	142	140	134	131	125	123	120
80	43.2	45.2	44.3	48.5	50.6	56.2	58.0	62.3	63.3	67.2	63.3	62.3	58.0	56.2	50.6	48.5	44.3	45.2	43.2
85	5.41	6.71	6.56	7.66	7.47	8.27	8.26	9.55	10.1	12.2	10.1	9.55	8.26	8.27	7.47	7.66	6.56	6.71	5.41
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:2017-12-28

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=0.9825]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.7315A P:153.5W PF:0.9581 Freq:49.99Hz Lamp Flux:20584.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788	6788		
5	6756	6751	6747	6743	6742	6741	6742	6744	6748	6744	6742	6741	6742	6743	6747	6751	6756		
10	6684	6671	6665	6657	6656	6652	6656	6655	6663	6655	6656	6652	6656	6657	6665	6671	6684		
15	6580	6559	6548	6534	6531	6525	6529	6529	6538	6529	6529	6525	6531	6534	6548	6559	6580		
20	6463	6439	6422	6403	6395	6389	6390	6392	6405	6392	6390	6389	6395	6403	6422	6439	6463		
25	6333	6302	6281	6260	6251	6242	6243	6246	6259	6246	6243	6242	6251	6260	6281	6302	6333		
30	6117	6083	6074	6059	6063	6060	6065	6065	6078	6065	6065	6060	6063	6059	6074	6083	6117		
35	5873	5826	5805	5796	5797	5788	5797	5790	5800	5790	5797	5788	5797	5796	5805	5826	5873		
40	5671	5639	5603	5558	5544	5531	5533	5533	5558	5533	5533	5531	5544	5558	5603	5639	5671		
45	5506	5456	5409	5349	5324	5305	5302	5304	5347	5304	5302	5305	5324	5349	5409	5456	5506		
50	5384	5321	5261	5215	5167	5150	5135	5156	5187	5156	5135	5150	5167	5215	5261	5321	5384		
55	5279	5203	5137	5115	5086	5064	5055	5059	5093	5059	5055	5064	5086	5115	5137	5203	5279		
60	5477	5522	5528	5478	5449	5423	5380	5383	5405	5383	5380	5423	5449	5478	5528	5522	5477		
65	1438	1485	1677	1726	1935	2016	2637	2368	2961	2368	2637	2016	1935	1726	1677	1485	1438		
70	235	231	253	243	276	259	278	288	317	288	278	259	276	243	253	231	235		
75	123	125	131	134	140	142	146	148	152	148	146	142	140	134	131	125	123		
80	45.2	44.3	48.5	50.6	56.2	58.0	62.3	63.3	67.2	63.3	62.3	58.0	56.2	50.6	48.5	44.3	45.2		
85	6.71	6.56	7.66	7.47	8.27	8.26	9.55	10.1	12.2	10.1	9.55	8.26	8.27	7.47	7.66	6.56	6.71		
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:2017-12-28

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=0.9825]  
 Remarks: