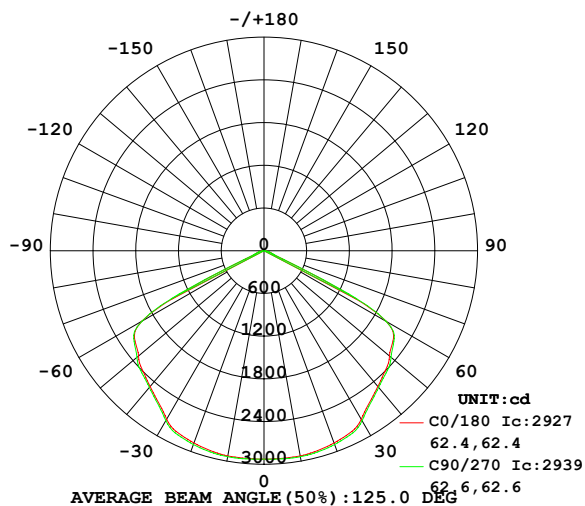


## LUMINAIRE PHOTOMETRIC TEST REPORT

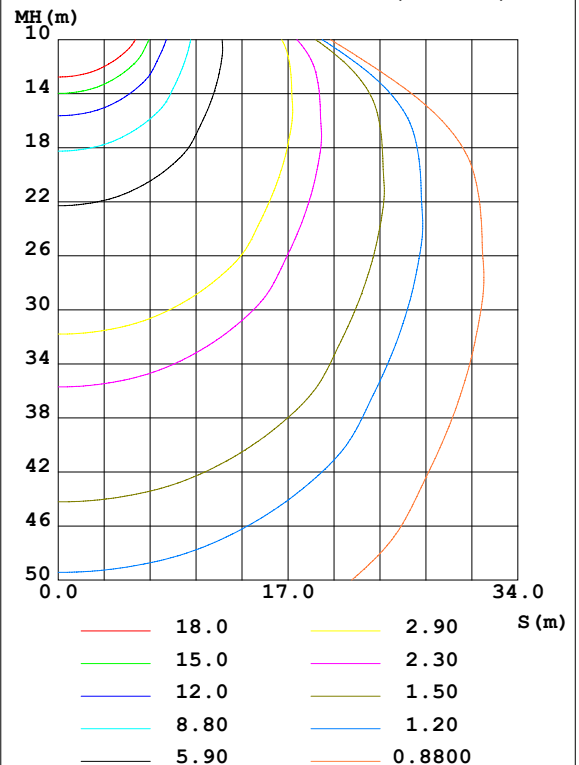
Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.00 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	2940	S/MH (C0/180)	1.37
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	1.38
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	8763.2	$\eta$ UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	8763.25	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:2018-04-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_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	2926	2938	2938	2938	2926	2938	2938	2938	0- 10	280.1	280.1	3.2,3.2
20	2873	2893	2896	2893	2873	2893	2896	2893	10- 20	826.6	1107	12.6,12.6
30	2734	2749	2755	2749	2734	2749	2755	2749	20- 30	1313	2420	27.6,27.6
40	2489	2510	2506	2510	2489	2510	2506	2510	30- 40	1639	4059	46.3,46.3
50	2300	2331	2330	2331	2300	2331	2330	2331	40- 50	1875	5934	67.7,67.7
60	1980	1921	1975	1921	1980	1921	1975	1921	50- 60	1968	7902	90.2,90.2
70	131.5	128.4	131.0	128.4	131.5	128.4	131.0	128.4	60- 70	757.9	8660	98.8,98.8
80	43.30	43.53	47.00	43.53	43.30	43.53	47.00	43.53	70- 80	91.35	8751	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	11.93	8763	100,100
100	0	0	0	0	0	0	0	0	90-100	0	8763	100,100
110	0	0	0	0	0	0	0	0	100-110	0	8763	100,100
120	0	0	0	0	0	0	0	0	110-120	0	8763	100,100
130	0	0	0	0	0	0	0	0	120-130	0	8763	100,100
140	0	0	0	0	0	0	0	0	130-140	0	8763	100,100
150	0	0	0	0	0	0	0	0	140-150	0	8763	100,100
160	0	0	0	0	0	0	0	0	150-160	0	8763	100,100
170	0	0	0	0	0	0	0	0	160-170	0	8763	100,100
180	0	0	0	0	0	0	0	0	170-180	0	8763	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4970.5 lm

%lum = 56.7%

%lamp = 56.7%

Conical surface Flux(120deg): 7902.1 lm

%lum = 90.2%

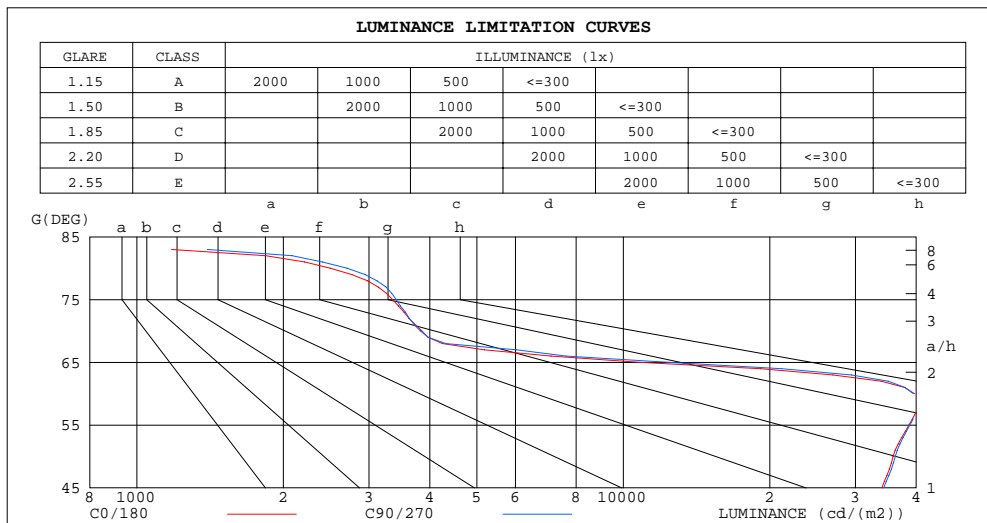
%lamp = 90.2%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-04-14

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

## LUMINANCE LIMITATION CURVES

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.248 \times 0.138 \text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16 \text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	341	434
80	2498	2705
75	3354	3412
70	3852	3827
65	10792	12378
60	39681	39480
55	38651	38810
50	35851	36228
45	34002	34280

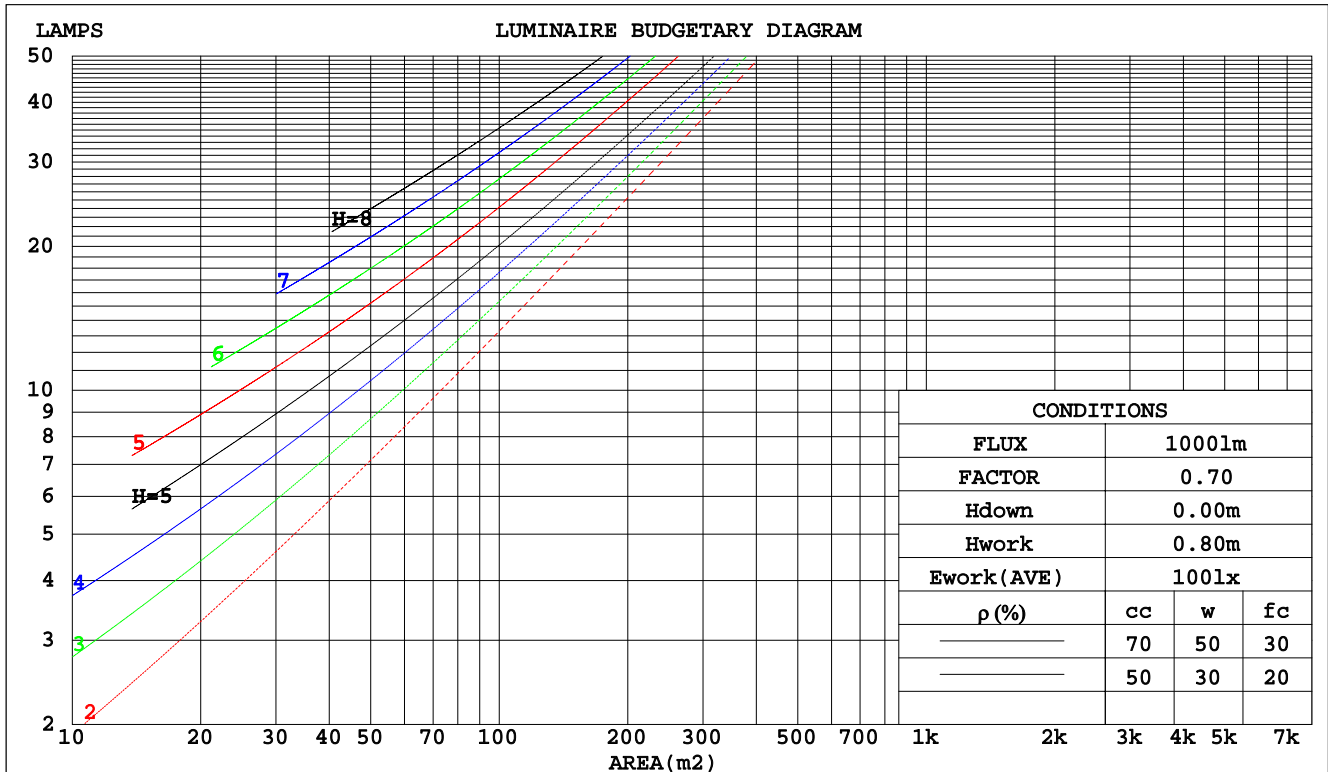
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-14

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

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.03	.00	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.68	.76	.71	.66	.73	.69	.65	.63
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.58	.67	.62	.57	.65	.60	.56	.54
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.53	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-04-14

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

## WEC AND CCEC

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	.261	.148	.047	.254	.145	.046	.241	.138	.044	.229	.132	.042	.218	.126	.041		
2.0	.258	.142	.043	.252	.139	.043	.241	.134	.042	.231	.129	.040	.221	.125	.039		
3.0	.247	.132	.039	.242	.130	.039	.232	.126	.038	.223	.122	.037	.214	.119	.037		
4.0	.234	.122	.036	.229	.120	.035	.220	.117	.035	.212	.114	.034	.204	.111	.034		
5.0	.220	.112	.032	.216	.111	.032	.208	.108	.032	.200	.106	.031	.193	.103	.031		
6.0	.206	.103	.030	.203	.102	.029	.196	.100	.029	.189	.098	.029	.183	.096	.029		
7.0	.194	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.027	.172	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.162	.078	.022	.159	.077	.021	.155	.076	.021	.150	.075	.021	.146	.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	.151	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.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:2018-04-14

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

## UGR(Unified Glare Rating) Table

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:2.9KG			
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D					DIM.: $\phi$ 0.248*0.138M			SERIAL No.:1			
MFR.: AOK					SUR.: $\phi$ 0.16M			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	18.7	20.2	19.0	20.4	20.6	18.7	20.2	19.0	20.4	20.6	
3H	18.5	19.9	18.8	20.1	20.3	18.6	19.9	18.9	20.2	20.4	
4H	18.5	19.7	18.8	20.0	20.2	18.5	19.8	18.8	20.0	20.3	
6H	18.4	19.5	18.7	19.8	20.1	18.4	19.6	18.7	19.9	20.1	
8H	18.3	19.5	18.7	19.7	20.0	18.4	19.5	18.7	19.8	20.1	
12H	18.3	19.4	18.6	19.6	19.9	18.3	19.4	18.7	19.7	20.0	
4H	2H	18.9	20.2	19.2	20.4	20.7	18.9	20.2	19.2	20.5	20.7
	3H	18.8	19.9	19.1	20.1	20.4	18.8	19.9	19.2	20.2	20.5
	4H	18.7	19.7	19.1	20.0	20.3	18.7	19.7	19.1	20.0	20.4
	6H	18.6	19.5	19.0	19.8	20.2	18.7	19.5	19.1	19.9	20.2
	8H	18.6	19.4	19.0	19.7	20.1	18.6	19.4	19.0	19.8	20.2
	12H	18.5	19.3	19.0	19.6	20.0	18.6	19.3	19.0	19.7	20.1
8H	4H	18.6	19.4	19.0	19.7	20.1	18.6	19.4	19.0	19.8	20.2
	6H	18.5	19.2	19.0	19.6	20.0	18.6	19.2	19.0	19.6	20.0
	8H	18.5	19.0	18.9	19.5	19.9	18.5	19.1	19.0	19.5	20.0
	12H	18.4	18.9	18.9	19.4	19.8	18.5	19.0	19.0	19.4	19.9
12H	4H	18.5	19.3	19.0	19.6	20.0	18.6	19.3	19.0	19.7	20.1
	6H	18.5	19.0	18.9	19.5	19.9	18.5	19.1	19.0	19.5	20.0
	8H	18.4	18.9	18.9	19.4	19.8	18.5	19.0	19.0	19.4	19.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.3					+ 0.6 / - 0.4					
1.5H	+ 1.6 / - 2.1					+ 1.6 / - 2.0					
2.0H	+ 0.8 / - 2.7					+ 0.8 / - 2.2					

CIE Pub.117, 8763 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.5$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-14

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

## UTILIZATION FACTORS TABLE

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

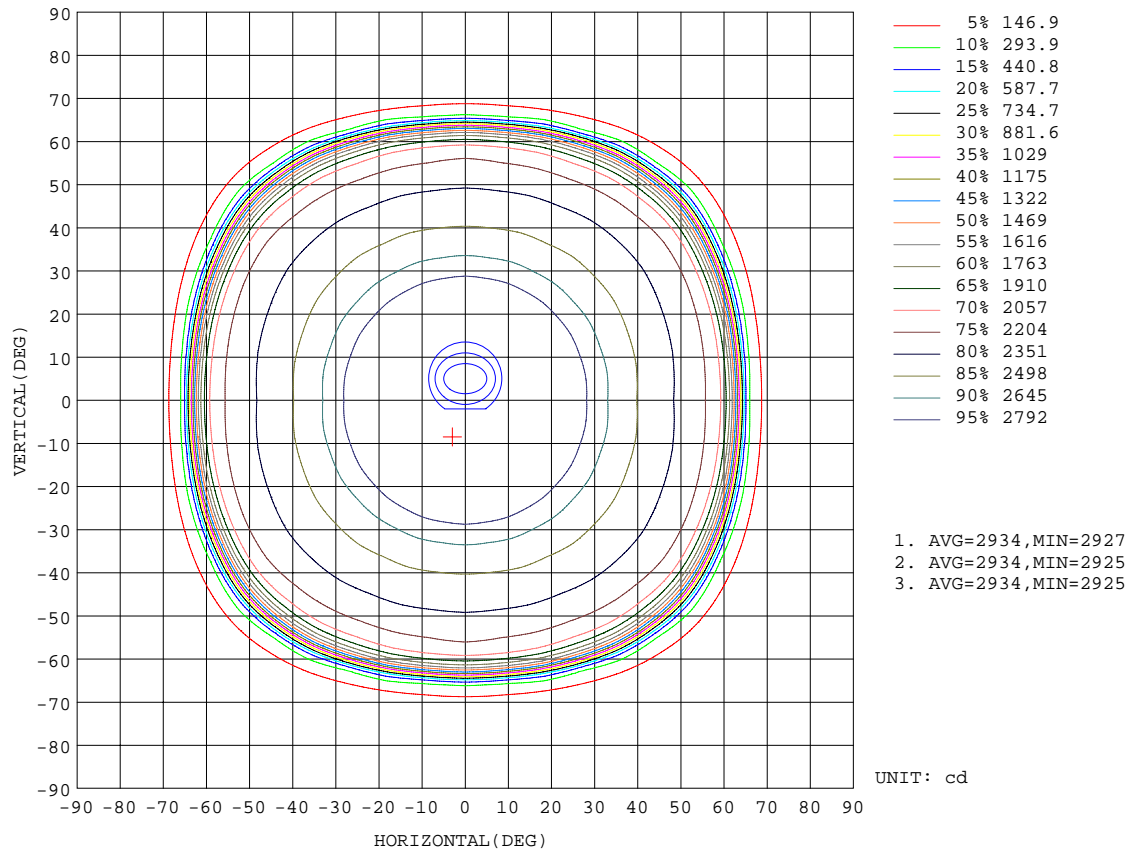
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	68	57	50	67	56	49	66	56	49	42
1.00	78	68	61	77	67	60	75	68	60	53
1.25	86	76	70	85	76	69	82	74	68	62
1.50	91	82	76	90	81	75	87	80	74	67
2.00	98	91	85	96	89	84	93	87	83	75
2.50	102	95	89	100	93	88	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	102	108	104	101	103	100	98	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:2018-04-14

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

## ISOCANDELA DIAGRAM

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:



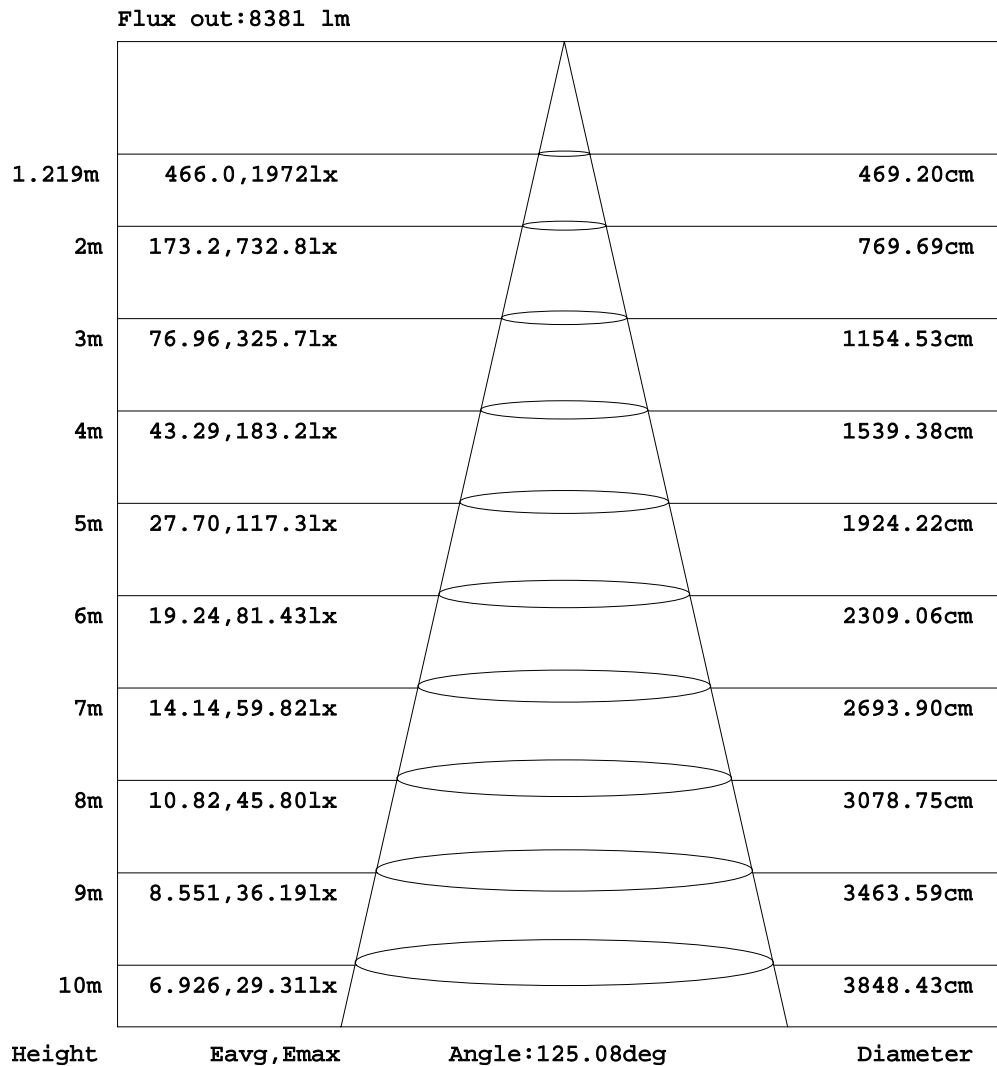
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-14

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



## AAI Figure

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



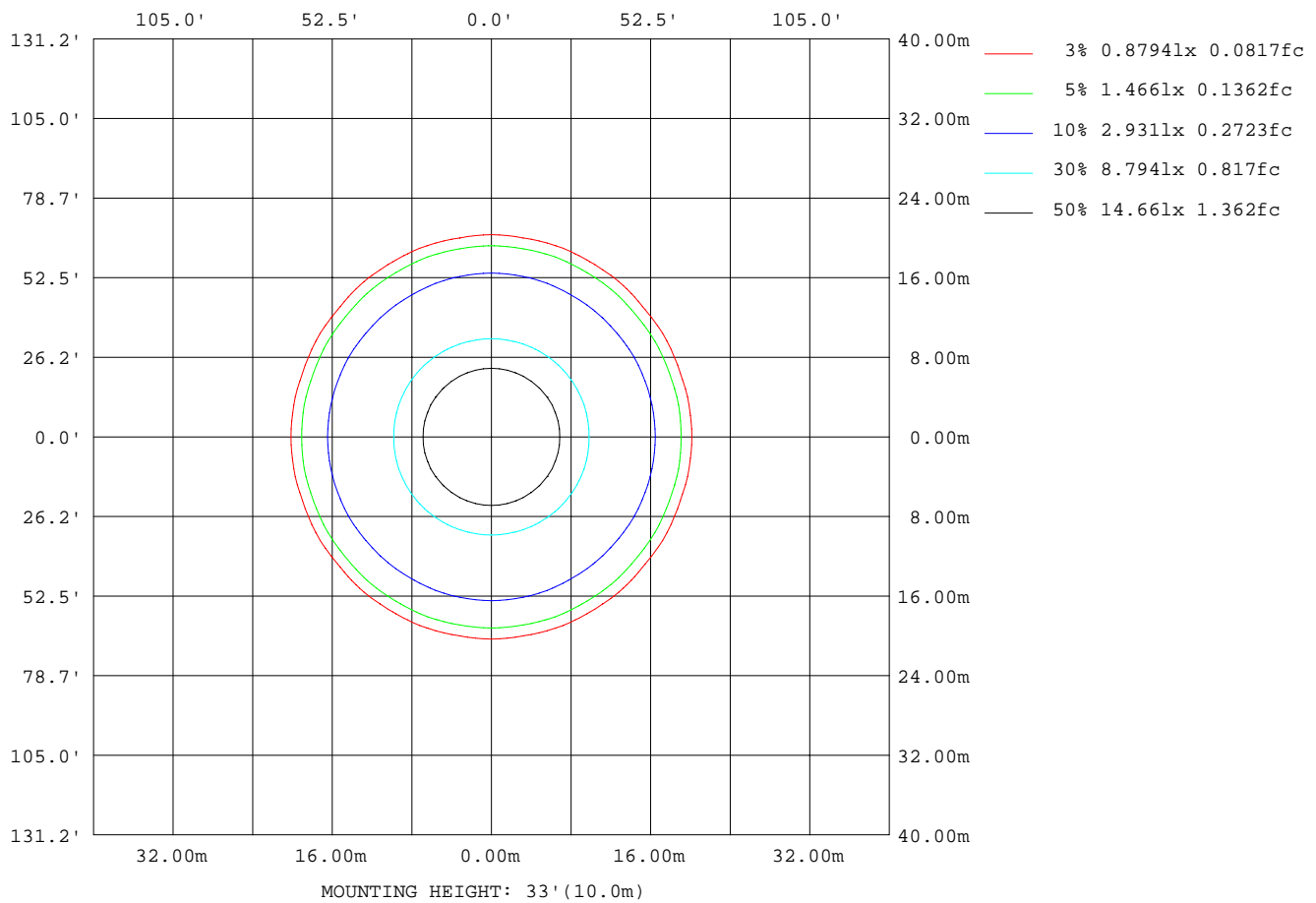
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-04-14

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

## ISOLUX DIAGRAM

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\Phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi$ 0.16M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-14

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

## LED Avg.L Report

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	Shielding Angle:

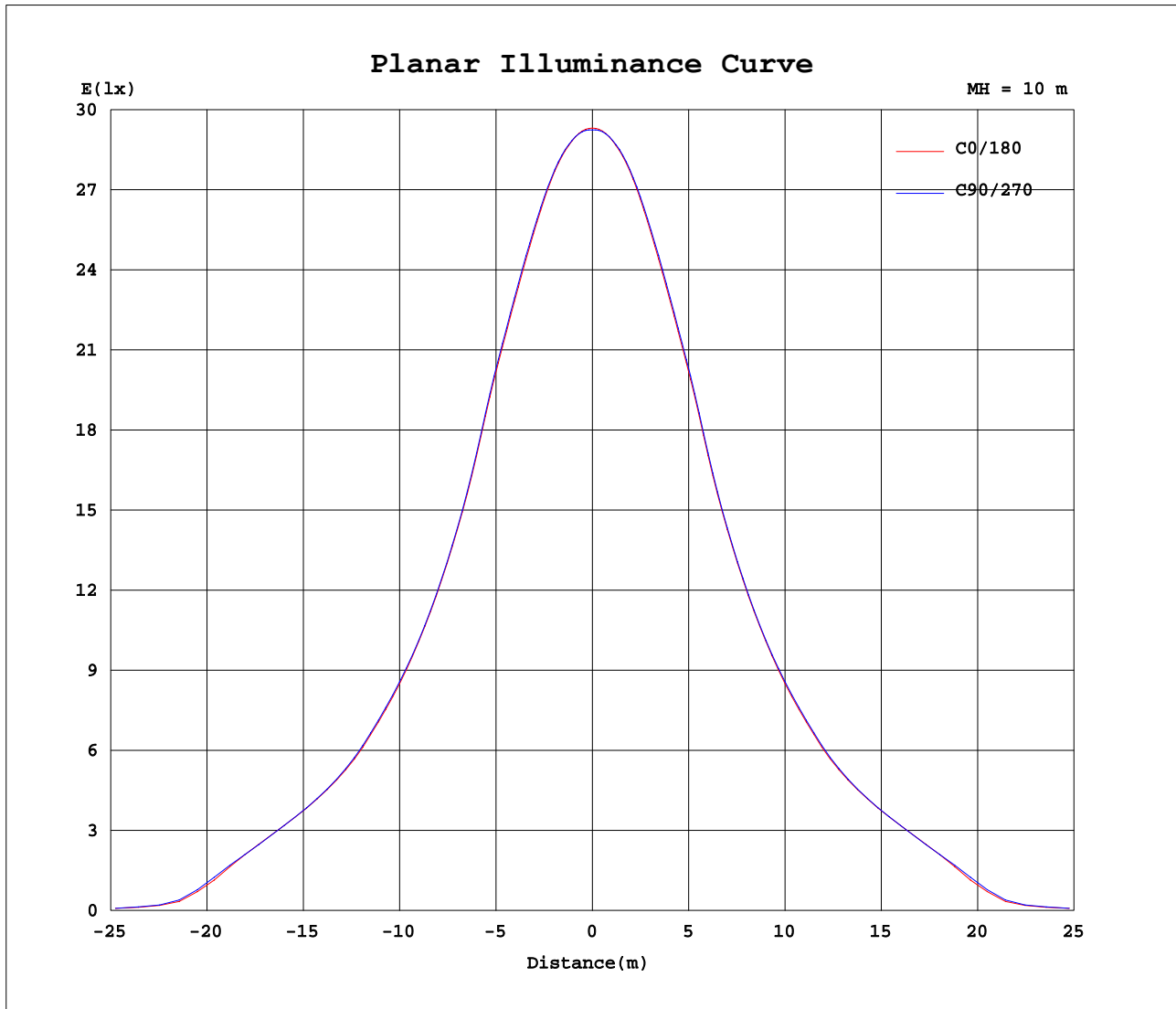
AvgL	cd/m2
L_0~180 (65) av	10772
L_0~180 (75) av	3348
L_0~180 (85) av	341
L_90~270 (65) av	12386
L_90~270 (75) av	3414
L_90~270 (85) av	434
L_45 (65) av	10836
L_45 (75) av	3310
L_45 (85) av	325

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_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: 2018-04-14

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

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D	DIM.: $\phi$ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.16M	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	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926
5	2926	2929	2930	2932	2933	2934	2935	2935	2935	2935	2935	2935	2935	2934	2933	2932	2930	2929	2926
10	2926	2930	2933	2936	2937	2939	2939	2939	2939	2938	2939	2939	2939	2939	2937	2936	2933	2930	2926
15	2906	2913	2916	2920	2922	2925	2925	2926	2925	2925	2925	2926	2925	2925	2922	2920	2916	2913	2906
20	2873	2882	2885	2890	2892	2895	2896	2898	2896	2896	2896	2898	2896	2895	2892	2890	2885	2882	2873
25	2831	2841	2844	2850	2851	2854	2854	2856	2854	2856	2854	2856	2854	2854	2851	2850	2844	2841	2831
30	2734	2742	2742	2749	2746	2752	2749	2755	2752	2755	2752	2755	2749	2752	2746	2749	2742	2742	2734
35	2593	2604	2606	2612	2609	2612	2609	2611	2607	2611	2607	2611	2609	2612	2609	2612	2606	2604	2593
40	2489	2501	2503	2511	2508	2512	2505	2509	2504	2506	2504	2509	2505	2512	2508	2511	2503	2501	2489
45	2400	2416	2418	2426	2427	2431	2429	2430	2427	2426	2427	2430	2429	2431	2427	2426	2418	2416	2400
50	2300	2319	2325	2337	2330	2332	2321	2327	2323	2330	2323	2327	2321	2332	2330	2337	2325	2319	2300
55	2213	2227	2235	2230	2218	2216	2210	2214	2212	2228	2212	2214	2210	2216	2218	2230	2235	2227	2213
60	1980	1974	1944	1943	1914	1928	1924	1956	1960	1975	1960	1956	1924	1928	1914	1943	1944	1974	1980
65	455	464	437	463	437	480	464	508	485	523	485	508	464	480	437	463	437	464	455
70	131	130	129	128	128	129	129	130	130	131	130	130	129	129	128	128	129	130	131
75	86.6	86.9	86.0	86.5	85.3	86.1	86.0	87.0	86.8	88.4	86.8	87.0	86.0	86.1	85.3	86.5	86.0	86.9	86.6
80	43.3	44.1	42.7	43.7	42.8	44.3	43.9	45.8	45.5	47.0	45.5	45.8	43.9	44.3	42.8	43.7	42.7	44.1	43.3
85	2.97	3.30	2.68	3.06	2.57	3.11	2.74	3.38	3.07	3.79	3.07	3.38	2.74	3.11	2.57	3.06	2.68	3.30	2.97
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:2018-04-14

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

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.2894A P:63.50W PF:0.9732 Freq:49.99Hz Lamp Flux:8763.25x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:2.9KG		
SPEC.:AOK-60WoH-3030-4000K-Ra80-120D									DIM.: $\phi$ 0.248*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi$ 0.16M						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	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926	2926		
5	2929	2930	2932	2933	2934	2935	2935	2935	2935	2935	2935	2935	2934	2933	2932	2930	2929		
10	2930	2933	2936	2937	2939	2939	2939	2939	2938	2939	2939	2939	2939	2937	2936	2933	2930		
15	2913	2916	2920	2922	2925	2925	2926	2925	2925	2925	2926	2925	2925	2922	2920	2916	2913		
20	2882	2885	2890	2892	2895	2896	2898	2896	2896	2896	2898	2896	2895	2892	2890	2885	2882		
25	2841	2844	2850	2851	2854	2854	2856	2854	2856	2854	2856	2854	2854	2851	2850	2844	2841		
30	2742	2742	2749	2746	2752	2749	2755	2752	2755	2752	2755	2749	2752	2746	2749	2742	2742		
35	2604	2606	2612	2609	2612	2609	2611	2607	2611	2607	2611	2609	2612	2609	2612	2606	2604		
40	2501	2503	2511	2508	2512	2505	2509	2504	2506	2504	2509	2505	2512	2508	2511	2503	2501		
45	2416	2418	2426	2427	2431	2429	2430	2427	2426	2427	2430	2429	2431	2427	2426	2418	2416		
50	2319	2325	2337	2330	2332	2321	2327	2323	2330	2323	2327	2321	2332	2330	2337	2325	2319		
55	2227	2235	2230	2218	2216	2210	2214	2212	2228	2212	2214	2210	2216	2218	2230	2235	2227		
60	1974	1944	1943	1914	1928	1924	1956	1960	1975	1960	1956	1924	1928	1914	1943	1944	1974		
65	464	437	463	437	480	464	508	485	523	485	508	464	480	437	463	437	464		
70	130	129	128	128	129	129	130	130	131	130	130	129	129	128	128	129	130		
75	86.9	86.0	86.5	85.3	86.1	86.0	87.0	86.8	88.4	86.8	87.0	86.0	86.1	85.3	86.5	86.0	86.9		
80	44.1	42.7	43.7	42.8	44.3	43.9	45.8	45.5	47.0	45.5	45.8	43.9	44.3	42.8	43.7	42.7	44.1		
85	3.30	2.68	3.06	2.57	3.11	2.74	3.38	3.07	3.79	3.07	3.38	2.74	3.11	2.57	3.06	2.68	3.30		
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:2018-04-14

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