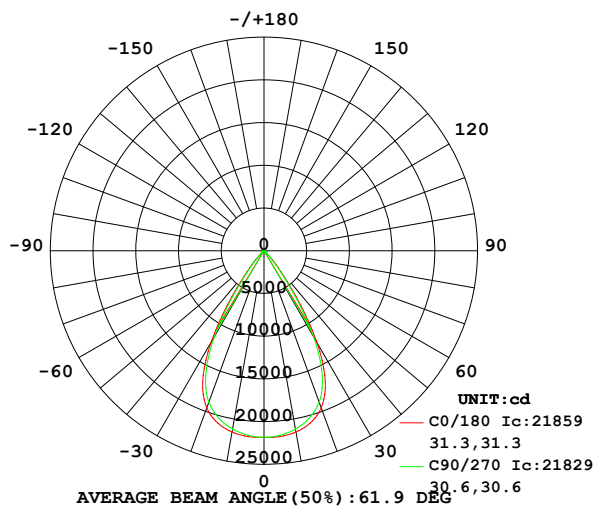


## LUMINAIRE PHOTOMETRIC TEST REPORT

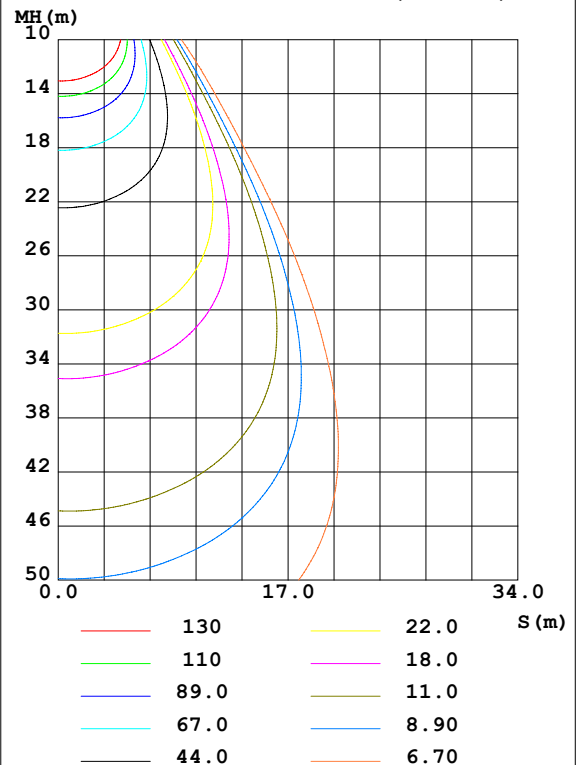
Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.24M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.20 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	21887	S/MH (C0/180)	0.91
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.89
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	21055	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	21054.9	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.684m [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	2154	2160	2119	2160	2154	2160	2119	2160	0- 10	2073	2073	9.85,9.85
20	1958	1976	1888	1976	1958	1976	1888	1976	10- 20	5859	7932	37.7,37.7
30	1243	1246	1158	1246	1243	1246	1158	1246	20- 30	7573	15504	73.6,73.6
40	264.3	253.6	240.8	253.6	264.3	253.6	240.8	253.6	30- 40	4058	19563	92.9,92.9
50	41.69	40.85	39.99	40.85	41.69	40.85	39.99	40.85	40- 50	768.1	20331	96.6,96.6
60	31.91	31.53	31.15	31.53	31.91	31.53	31.15	31.53	50- 60	315.7	20647	98.1,98.1
70	21.33	20.36	19.77	20.36	21.33	20.36	19.77	20.36	60- 70	261.8	20909	99.3,99.3
80	5.434	5.073	4.360	5.073	5.434	5.073	4.360	5.073	70- 80	134.8	21043	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	11.48	21055	100,100
100	0	0	0	0	0	0	0	0	90-100	0	21055	100,100
110	0	0	0	0	0	0	0	0	100-110	0	21055	100,100
120	0	0	0	0	0	0	0	0	110-120	0	21055	100,100
130	0	0	0	0	0	0	0	0	120-130	0	21055	100,100
140	0	0	0	0	0	0	0	0	130-140	0	21055	100,100
150	0	0	0	0	0	0	0	0	140-150	0	21055	100,100
160	0	0	0	0	0	0	0	0	150-160	0	21055	100,100
170	0	0	0	0	0	0	0	0	160-170	0	21055	100,100
180	0	0	0	0	0	0	0	0	170-180	0	21055	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 20126 lm

%lum = 95.6%

%lamp = 95.6%

Conical surface Flux(120deg): 20647 lm

%lum = 98.1%

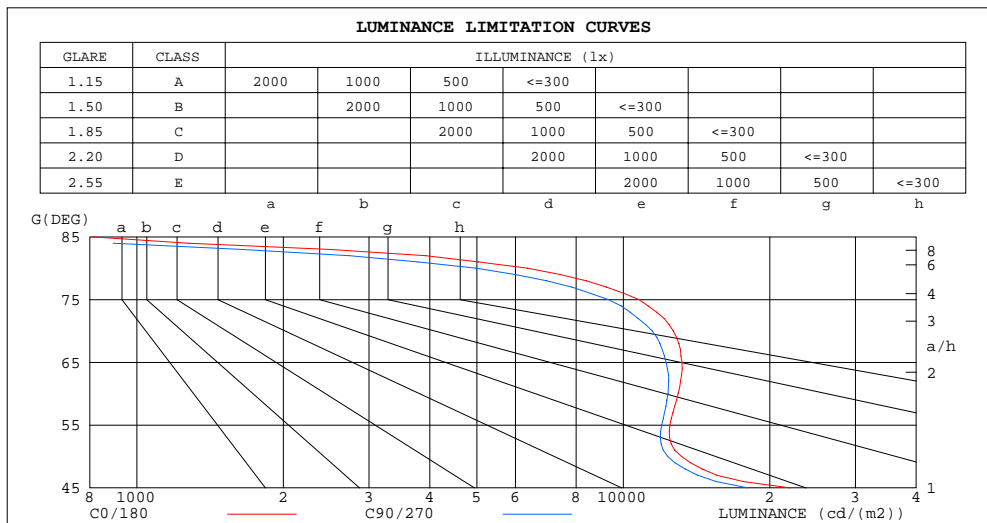
%lamp = 98.1%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.684m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.24M	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	807	595
80	6355	4979
75	10760	9306
70	12666	11461
65	13194	12240
60	12961	12354
55	12464	11993
50	13171	12337
45	22060	18039

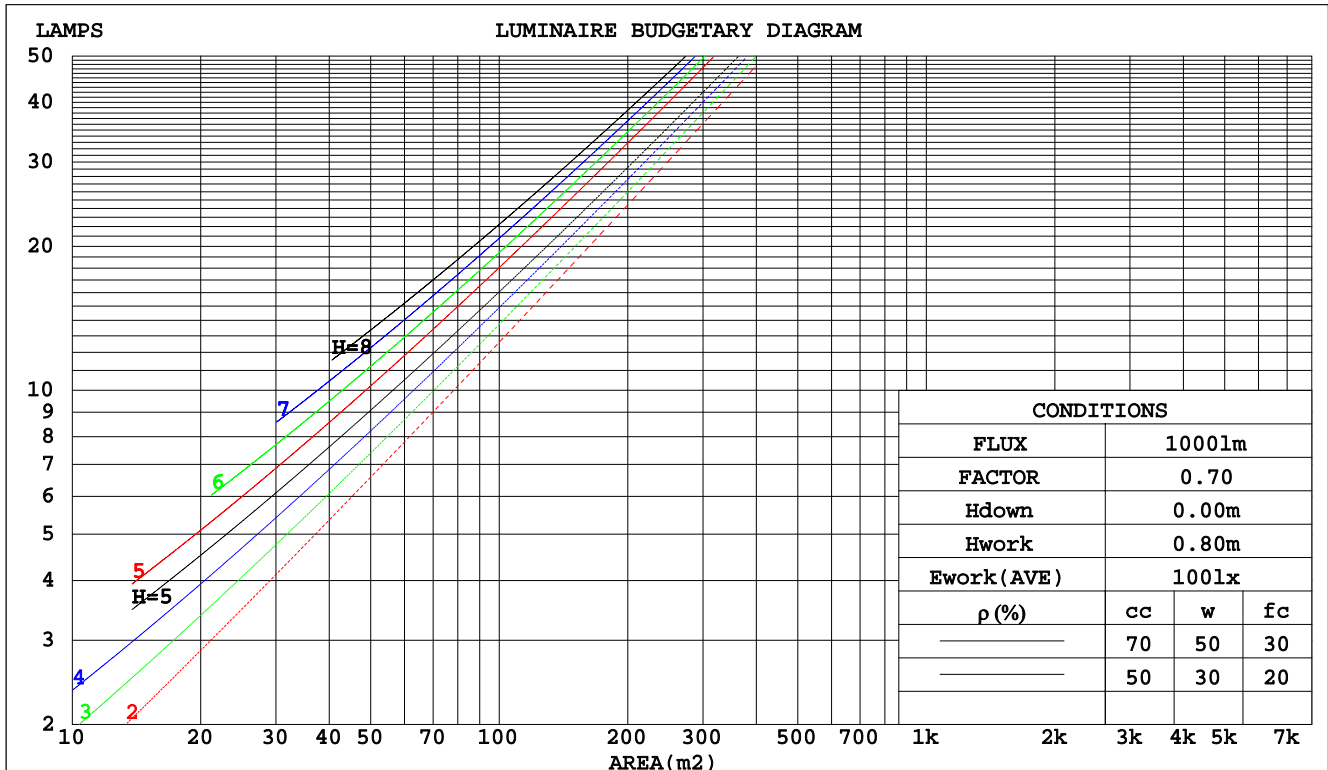
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:±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						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	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.62	.61
8.0	.70	.64	.60	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.63	.58	.55	.54
10.0	.62	.56	.53	.62	.56	.53	.61	.56	.52	.60	.56	.52	.59	.55	.52	.51



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.684m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:±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	.182	.104	.033	.175	.100	.032	.163	.093	.030	.151	.087	.028	.140	.081	.026		
2.0	.174	.095	.029	.168	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025		
3.0	.165	.088	.026	.160	.086	.026	.151	.082	.025	.143	.078	.024	.135	.075	.023		
4.0	.157	.082	.024	.153	.080	.024	.145	.077	.023	.138	.074	.022	.131	.071	.022		
5.0	.149	.076	.022	.146	.075	.022	.139	.072	.021	.133	.070	.021	.127	.068	.020		
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.128	.066	.019	.122	.064	.019		
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018		
8.0	.130	.064	.018	.128	.063	.018	.123	.061	.018	.118	.060	.017	.114	.059	.017		
9.0	.125	.060	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016		
10.0	.119	.057	.016	.117	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.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	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-60D					DIM.: 0.319*0.138M			SERIAL No.:1		
MFR.: AOK					SUR.:±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	10.6	11.6	10.8	11.7	11.9	10.1	11.1	10.3	11.2	11.4
3H	10.7	11.6	11.0	11.8	12.0	10.2	11.1	10.5	11.3	11.5
4H	10.8	11.6	11.1	11.8	12.1	10.3	11.1	10.6	11.3	11.6
6H	10.8	11.6	11.1	11.8	12.1	10.3	11.0	10.5	11.3	11.5
8H	10.7	11.5	11.1	11.8	12.0	10.2	11.0	10.5	11.2	11.5
12H	10.7	11.4	11.0	11.7	12.0	10.2	10.9	10.5	11.2	11.4
4H 2H	10.5	11.3	10.7	11.5	11.7	10.0	10.8	10.3	11.0	11.3
3H	10.7	11.4	11.0	11.7	12.0	10.2	10.9	10.5	11.2	11.5
4H	10.8	11.5	11.2	11.8	12.1	10.3	11.0	10.7	11.3	11.6
6H	10.8	11.4	11.2	11.8	12.1	10.3	10.9	10.7	11.2	11.6
8H	10.8	11.3	11.2	11.7	12.1	10.3	10.8	10.7	11.2	11.6
12H	10.8	11.3	11.2	11.6	12.0	10.2	10.7	10.7	11.1	11.5
8H 4H	10.8	11.3	11.2	11.7	12.0	10.3	10.8	10.7	11.2	11.6
6H	10.8	11.3	11.2	11.6	12.1	10.3	10.8	10.7	11.2	11.6
8H	10.8	11.2	11.2	11.6	12.0	10.3	10.7	10.7	11.1	11.5
12H	10.7	11.1	11.2	11.5	12.0	10.2	10.6	10.7	11.0	11.5
12H 4H	10.7	11.2	11.1	11.6	12.0	10.3	10.7	10.7	11.1	11.5
6H	10.8	11.2	11.2	11.6	12.0	10.3	10.7	10.7	11.1	11.5
8H	10.7	11.1	11.2	11.5	12.0	10.2	10.6	10.7	11.0	11.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 3.0					+ 2.4 / - 2.9				
1.5H	+ 5.1 / - 3.0					+ 4.7 / - 2.9				
2.0H	+ 1.3 / - 0.4					+ 0.6 / - 0.4				

CIE Pub.117, 21055 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.6)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

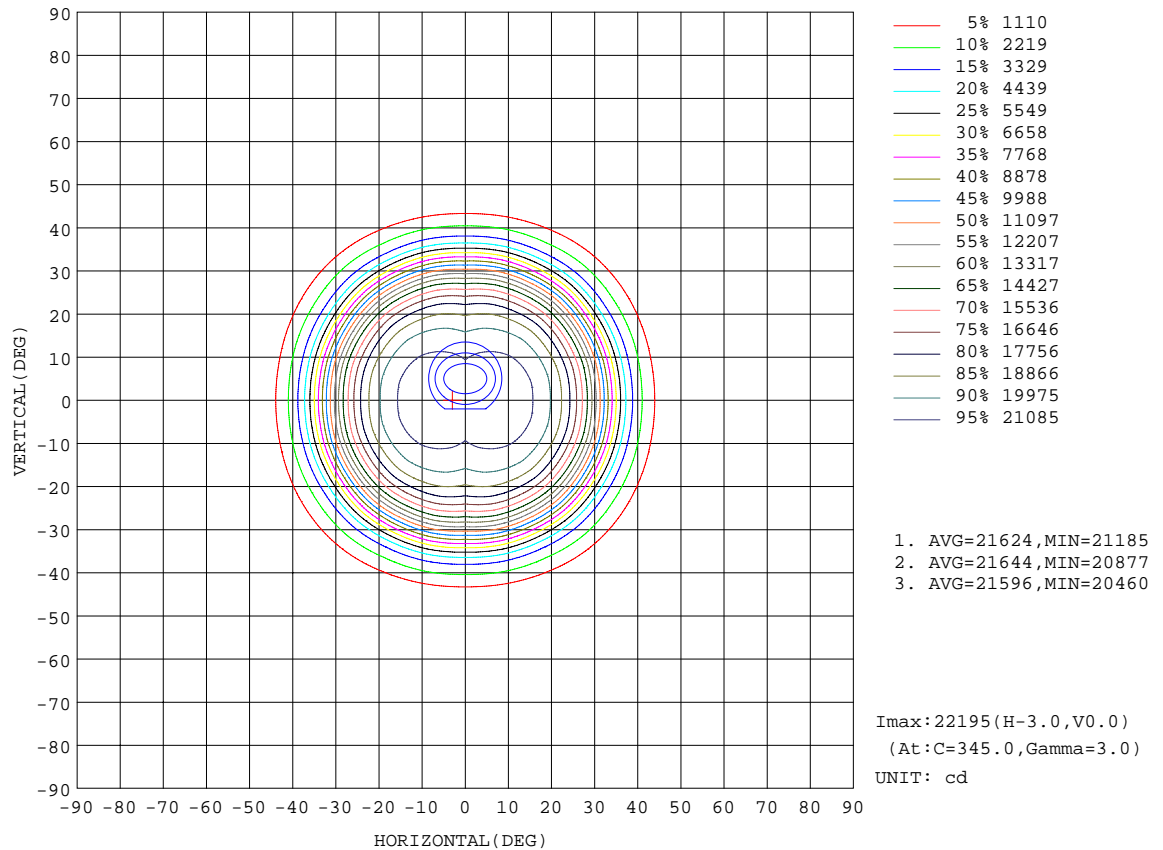
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.24M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

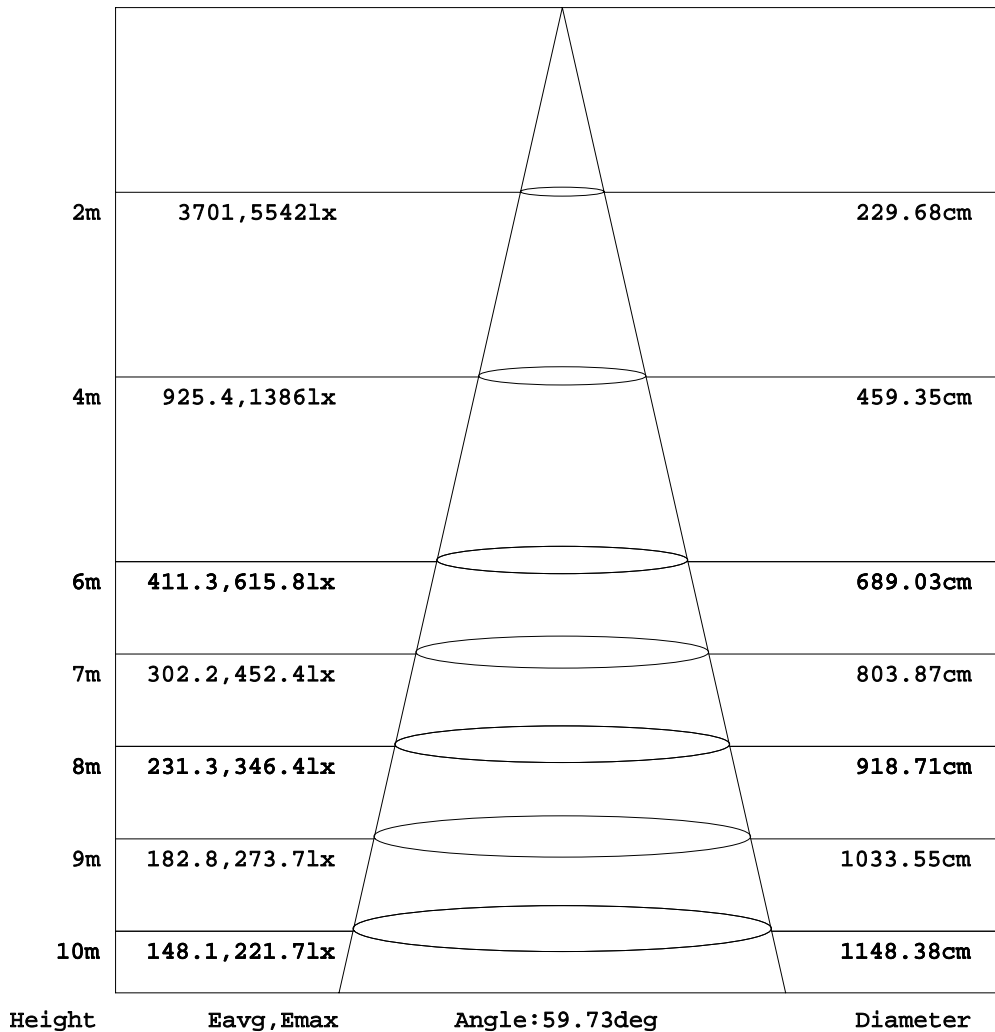
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

Flux out:15504 lm



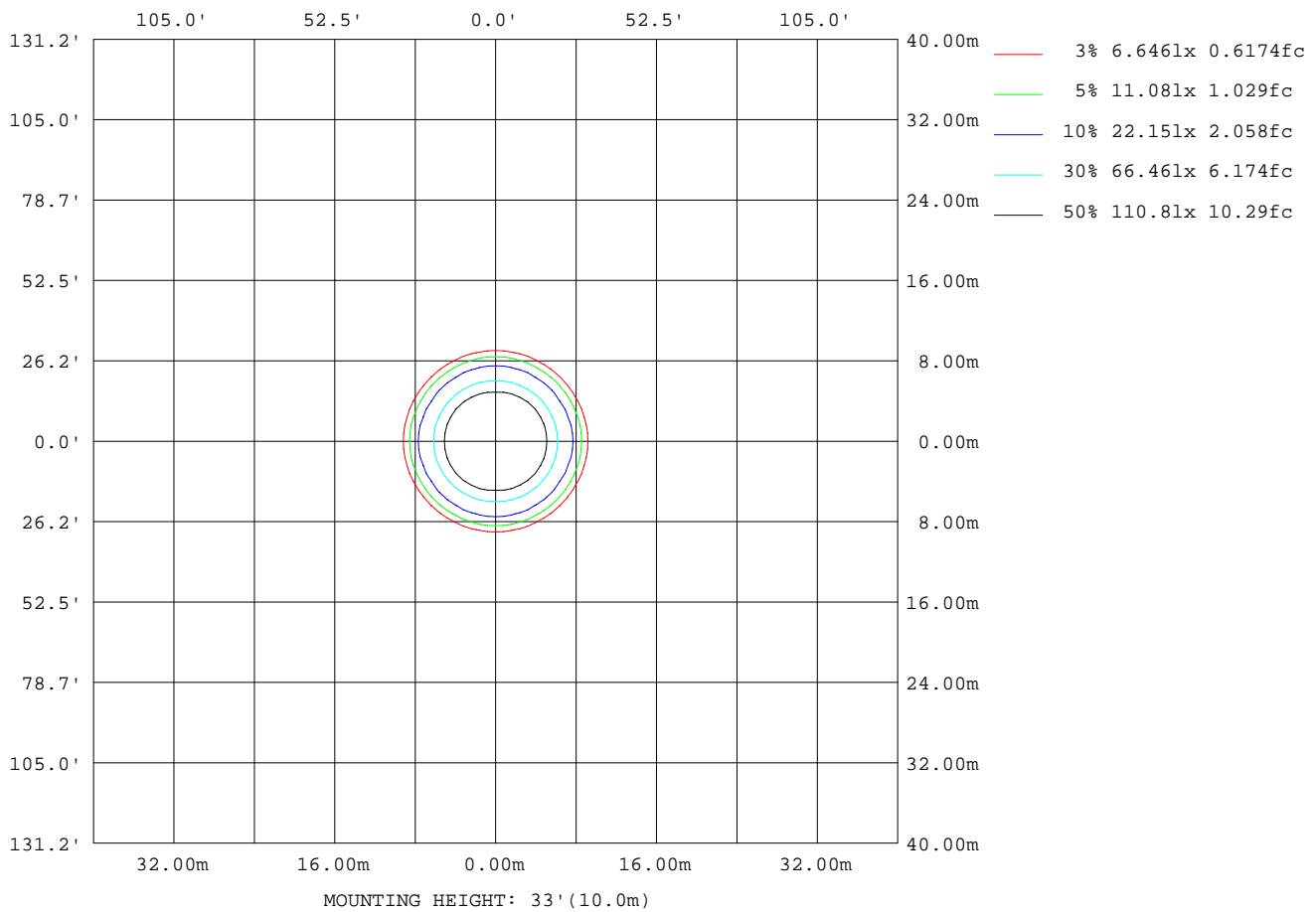
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.684m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.24M	Shielding Angle:

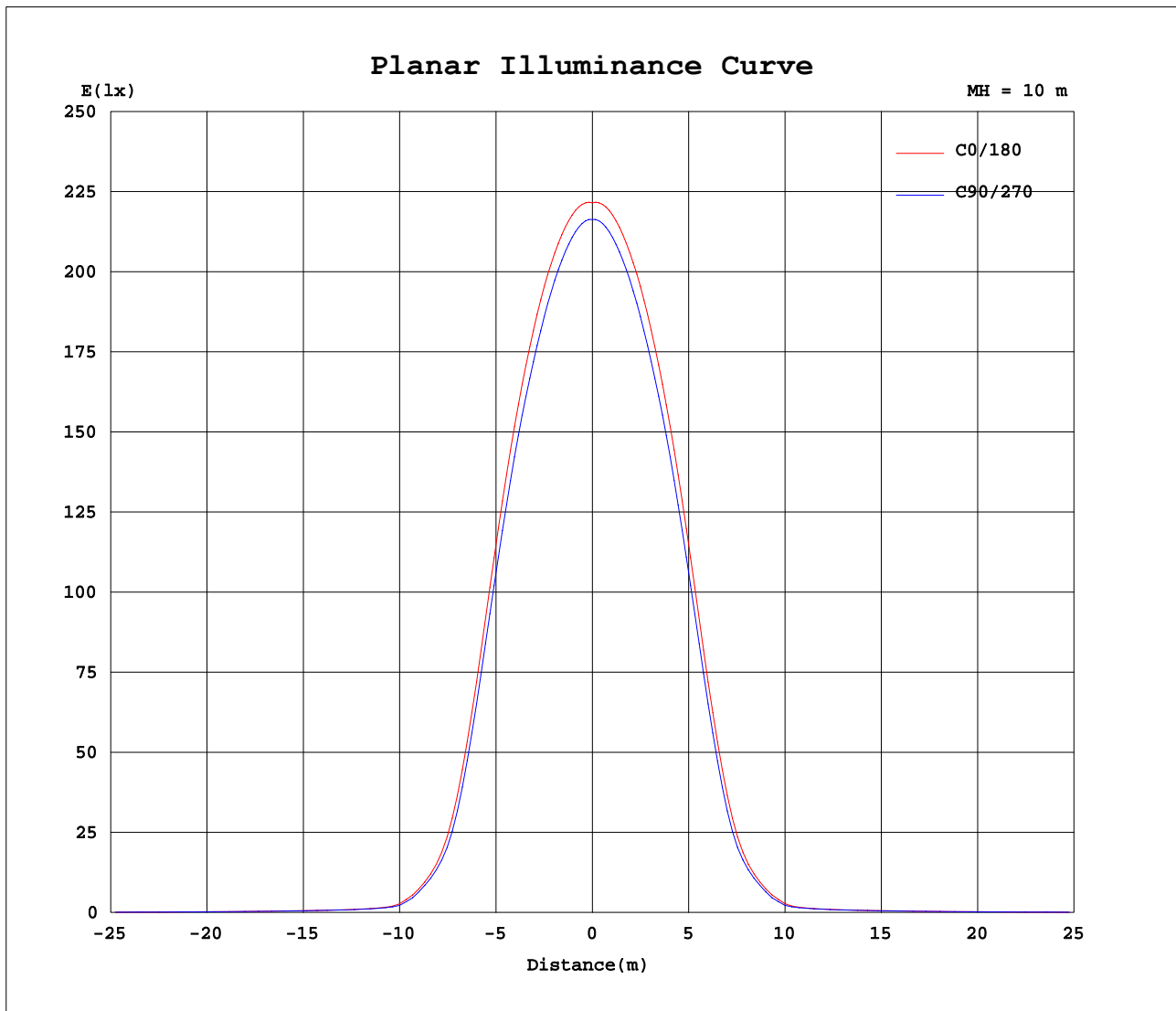
AvgL	cd/m2
L_0~180 (65) av	12995
L_0~180 (75) av	10597
L_0~180 (85) av	795
L_90~270 (65) av	12345
L_90~270 (75) av	9386
L_90~270 (85) av	600
L_45 (65) av	12532
L_45 (75) av	9947
L_45 (85) av	612

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-10-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.684m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:Φ0.24M	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182	2182
5	2183	2188	2187	2186	2181	2176	2168	2176	2181	2186	2187	2188	2183	2188	2187	2186	2181	2176	2168
10	2154	2164	2163	2160	2149	2137	2119	2137	2149	2160	2163	2164	2154	2164	2163	2160	2149	2137	2119
15	2090	2109	2110	2105	2084	2062	2033	2062	2084	2105	2110	2109	2090	2109	2110	2105	2084	2062	2033
20	1958	1981	1981	1976	1949	1925	1888	1925	1949	1976	1981	1981	1958	1981	1981	1976	1949	1925	1888
25	1699	1723	1717	1714	1682	1660	1616	1660	1682	1714	1717	1723	1699	1723	1717	1714	1682	1660	1616
30	1243	1266	1247	1246	1212	1201	1158	1201	1212	1246	1247	1266	1243	1266	1247	1246	1212	1201	1158
35	656	658	630	630	606	607	583	607	606	630	630	658	656	658	630	630	606	607	583
40	264	267	250	254	241	249	241	249	241	254	250	267	264	267	250	254	241	249	241
45	76.8	76.9	71.5	72.0	68.0	68.3	64.3	68.3	68.0	72.0	71.5	76.9	76.8	76.9	71.5	72.0	68.0	68.3	64.3
50	41.7	41.1	40.4	40.9	40.6	40.8	40.0	40.8	40.6	40.9	40.4	41.1	41.7	41.1	40.4	40.9	40.6	40.8	40.0
55	35.2	35.0	34.8	35.0	34.9	35.1	34.7	35.1	34.9	35.0	34.8	35.0	35.2	35.0	34.8	35.0	34.9	35.1	34.7
60	31.9	31.6	31.5	31.5	31.3	31.3	31.2	31.3	31.3	31.5	31.5	31.6	31.9	31.6	31.5	31.5	31.3	31.3	31.2
65	27.5	27.2	26.7	26.5	26.4	26.2	26.1	26.2	26.4	26.5	26.7	27.2	27.5	27.2	26.7	26.5	26.4	26.2	26.1
70	21.3	21.3	20.6	20.4	20.0	20.0	19.8	20.0	20.0	20.4	20.6	21.3	21.3	21.3	20.6	20.4	20.0	20.0	19.8
75	13.7	13.7	13.0	12.9	12.4	12.5	12.1	12.5	12.4	12.9	13.0	13.7	13.7	13.7	13.0	12.9	12.4	12.5	12.1
80	5.43	5.49	5.03	5.07	4.59	4.68	4.36	4.68	4.59	5.07	5.03	5.49	5.43	5.49	5.03	5.07	4.59	4.68	4.36
85	0.35	0.33	0.27	0.27	0.25	0.28	0.26	0.28	0.25	0.27	0.27	0.33	0.35	0.33	0.27	0.27	0.25	0.28	0.26
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: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-10-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.684m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.7048A P:151.3W PF:0.9720 Freq:49.99Hz Lamp Flux:21054.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.:φ0.24M	Shielding Angle:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2182	2182	2182	2182	2182														
5	2176	2181	2186	2187	2188														
10	2137	2149	2160	2163	2164														
15	2062	2084	2105	2110	2109														
20	1925	1949	1976	1981	1981														
25	1660	1682	1714	1717	1723														
30	1201	1212	1246	1247	1266														
35	607	606	630	630	658														
40	249	241	254	250	267														
45	68.3	68.0	72.0	71.5	76.9														
50	40.8	40.6	40.9	40.4	41.1														
55	35.1	34.9	35.0	34.8	35.0														
60	31.3	31.3	31.5	31.5	31.6														
65	26.2	26.4	26.5	26.7	27.2														
70	20.0	20.0	20.4	20.6	21.3														
75	12.5	12.4	12.9	13.0	13.7														
80	4.68	4.59	5.07	5.03	5.49														
85	0.28	0.25	0.27	0.27	0.33														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-10-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.684m [K=1.0000]  
Remarks: