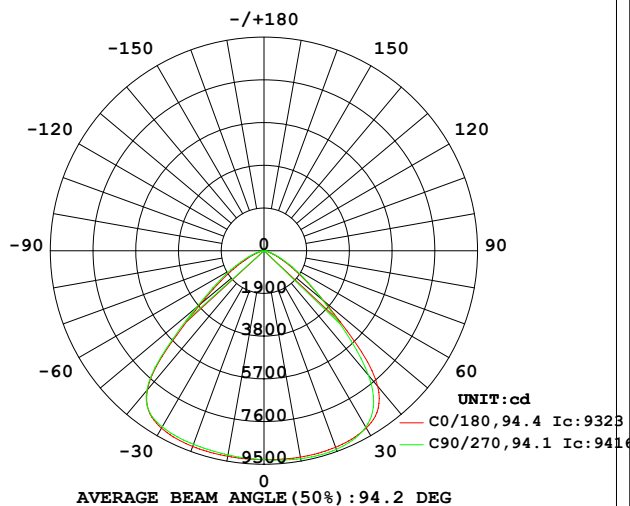


## LUMINAIRE PHOTOMETRIC TEST REPORT

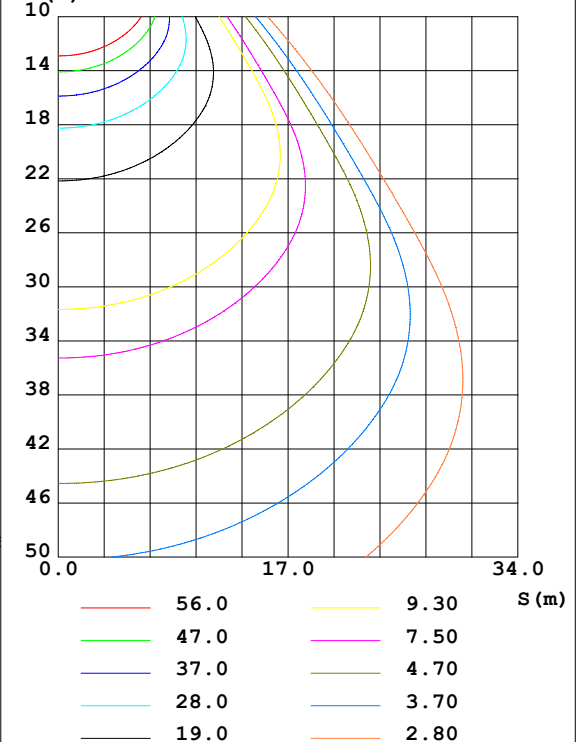
Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 209.67 lm/W			
MODEL	2835	I <sub>max</sub> (cd)	9417	S/MH (C0/180)	1.38
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.39
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	20907	$\eta$ UP,DN (C0-180)	0.0,49.0
NOMINAL FLUX (lm)	20906.8	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,51.0
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: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [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	9318	9376	9392	9356	9284	9230	9222	9255	0- 10	887.9	887.9	4.25,4.25
20	9303	9381	9400	9370	9264	9169	9163	9219	10- 20	2636	3523	16.9,16.9
30	9098	9113	9058	9140	9114	9064	9047	9076	20- 30	4263	7786	37.2,37.2
40	7865	7542	7233	7644	8067	8187	8105	8079	30- 40	5421	13207	63.2,63.2
50	3473	3345	3386	3439	3690	3758	3927	3721	40- 50	4385	17592	84.1,84.1
60	1306	1300	1451	1427	1445	1506	1702	1499	50- 60	2113	19705	94.3,94.3
70	423.7	444.2	480.5	503.8	476.3	546.6	600.2	523.0	60- 70	899.0	20604	98.6,98.6
80	86.73	73.88	87.97	86.08	107.9	106.0	127.4	92.29	70- 80	276.1	20880	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	26.69	20907	100,100
100	0	0	0	0	0	0	0	0	90-100	0	20907	100,100
110	0	0	0	0	0	0	0	0	100-110	0	20907	100,100
120	0	0	0	0	0	0	0	0	110-120	0	20907	100,100
130	0	0	0	0	0	0	0	0	120-130	0	20907	100,100
140	0	0	0	0	0	0	0	0	130-140	0	20907	100,100
150	0	0	0	0	0	0	0	0	140-150	0	20907	100,100
160	0	0	0	0	0	0	0	0	150-160	0	20907	100,100
170	0	0	0	0	0	0	0	0	160-170	0	20907	100,100
180	0	0	0	0	0	0	0	0	170-180	0	20907	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 15753 lm

%lum = 75.3%

%lamp = 75.3%

Conical surface Flux(120deg): 19705 lm

%lum = 94.3%

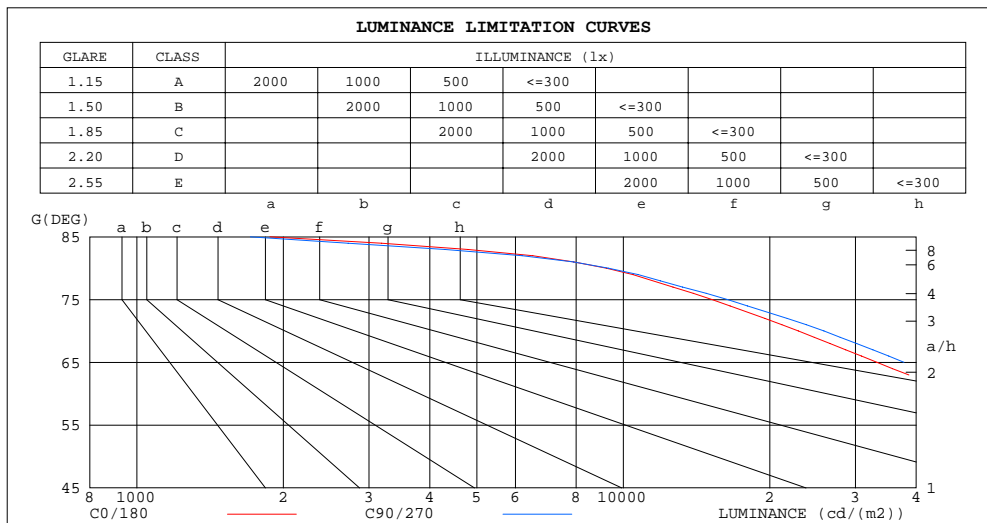
%lamp = 94.3%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:



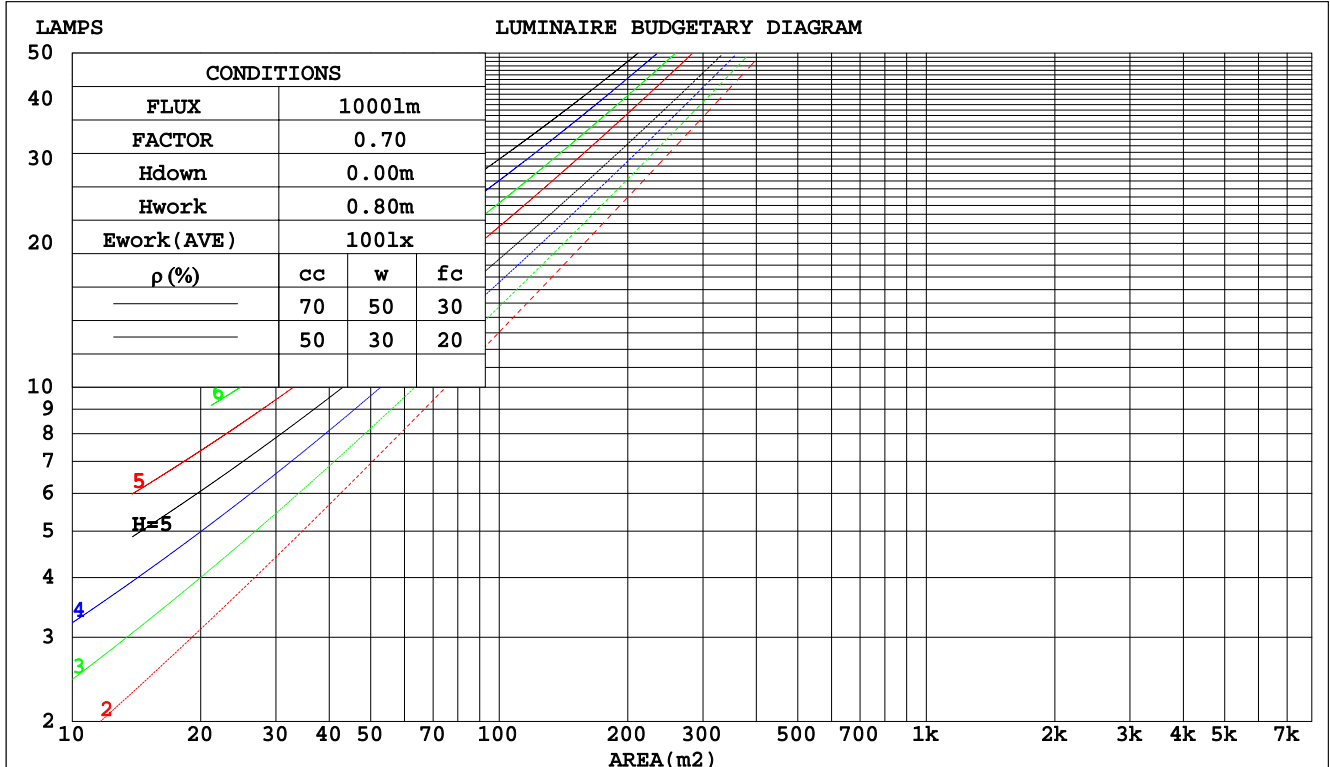
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.81	.79
3.0	.87	.81	.75	.86	.80	.75	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.65	.75	.69	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.64	.58	.70	.63	.58	.68	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.51	.62	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.59	.52	.46	.59	.51	.46	.57	.51	.46	.56	.50	.45	.55	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.41	.52	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
10.0	.47	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm					
NAME: AOK HBE			TYPE:		WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P			DIM.:		SERIAL No.:
MFR.: AOK			SUR.: $\Phi$ 263mm		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	.234	.133	.042	.227	.129	.041	.214	.123	.039	.202	.117	.037	.191	.111	.036		
2.0	.229	.125	.038	.223	.123	.038	.212	.118	.037	.201	.113	.035	.192	.109	.034		
3.0	.219	.116	.035	.214	.114	.034	.204	.110	.034	.195	.107	.033	.187	.103	.032		
4.0	.208	.108	.032	.203	.106	.031	.195	.103	.031	.187	.100	.030	.179	.097	.030		
5.0	.197	.100	.029	.192	.099	.029	.185	.096	.028	.178	.094	.028	.171	.091	.027		
6.0	.186	.093	.027	.182	.092	.027	.176	.090	.026	.169	.088	.026	.163	.086	.026		
7.0	.176	.087	.025	.173	.086	.025	.167	.084	.024	.161	.083	.024	.156	.081	.024		
8.0	.167	.081	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	.148	.076	.022		
9.0	.158	.076	.021	.155	.076	.021	.151	.074	.021	.146	.073	.021	.142	.072	.021		
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.020		

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	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.155	.114	.082	.133	.098	.071	.091	.068	.050	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.065	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.120	.077	.045	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm												
NAME: AOK HBE					TYPE:			WEIGHT:				
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P					DIM.:			SERIAL No.:				
MFR.: AOK					SUR.: $\phi$ 263mm			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	27.3	28.6	27.5	28.7	28.9	27.2	28.5	27.4	28.7	28.9		
	3H	27.3	28.5	27.6	28.7	29.0	27.3	28.5	27.6	28.7	28.9	
	4H	27.3	28.4	27.6	28.7	28.9	27.3	28.4	27.6	28.6	28.9	
	6H	27.2	28.3	27.5	28.5	28.8	27.2	28.2	27.5	28.5	28.8	
	8H	27.2	28.2	27.5	28.5	28.7	27.2	28.2	27.5	28.4	28.7	
	12H	27.1	28.1	27.5	28.4	28.7	27.1	28.1	27.5	28.4	28.6	
	4H	2H	27.2	28.3	27.5	28.6	28.8	27.1	28.3	27.4	28.5	28.7
		3H	27.4	28.3	27.7	28.6	28.9	27.3	28.3	27.7	28.6	28.9
		4H	27.4	28.2	27.7	28.5	28.9	27.3	28.2	27.7	28.5	28.8
		6H	27.3	28.1	27.7	28.4	28.8	27.3	28.0	27.7	28.4	28.7
		8H	27.3	28.0	27.7	28.3	28.7	27.2	27.9	27.6	28.3	28.7
		12H	27.2	27.9	27.7	28.3	28.7	27.2	27.8	27.6	28.2	28.6
8H	4H	27.3	28.0	27.7	28.3	28.7	27.2	27.9	27.6	28.3	28.7	
	6H	27.2	27.8	27.7	28.2	28.6	27.2	27.8	27.6	28.2	28.6	
	8H	27.2	27.7	27.7	28.1	28.6	27.2	27.7	27.6	28.1	28.5	
	12H	27.2	27.6	27.6	28.0	28.5	27.1	27.5	27.6	28.0	28.5	
12H	4H	27.2	27.9	27.6	28.2	28.6	27.2	27.8	27.6	28.2	28.6	
	6H	27.2	27.7	27.6	28.1	28.6	27.2	27.7	27.6	28.1	28.5	
	8H	27.2	27.6	27.6	28.0	28.5	27.1	27.6	27.6	28.0	28.5	
Variations with the observer position at spacings:												
S = 1.0H	+ 1.6 / - 2.5					+ 1.6 / - 2.2						
1.5H	+ 1.5 / - 2.0					+ 1.3 / - 1.7						
2.0H	+ 3.5 / - 2.9					+ 3.0 / - 3.4						

CIE Pub.117, 20907 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 10.6$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yanyonggeng  
 Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:

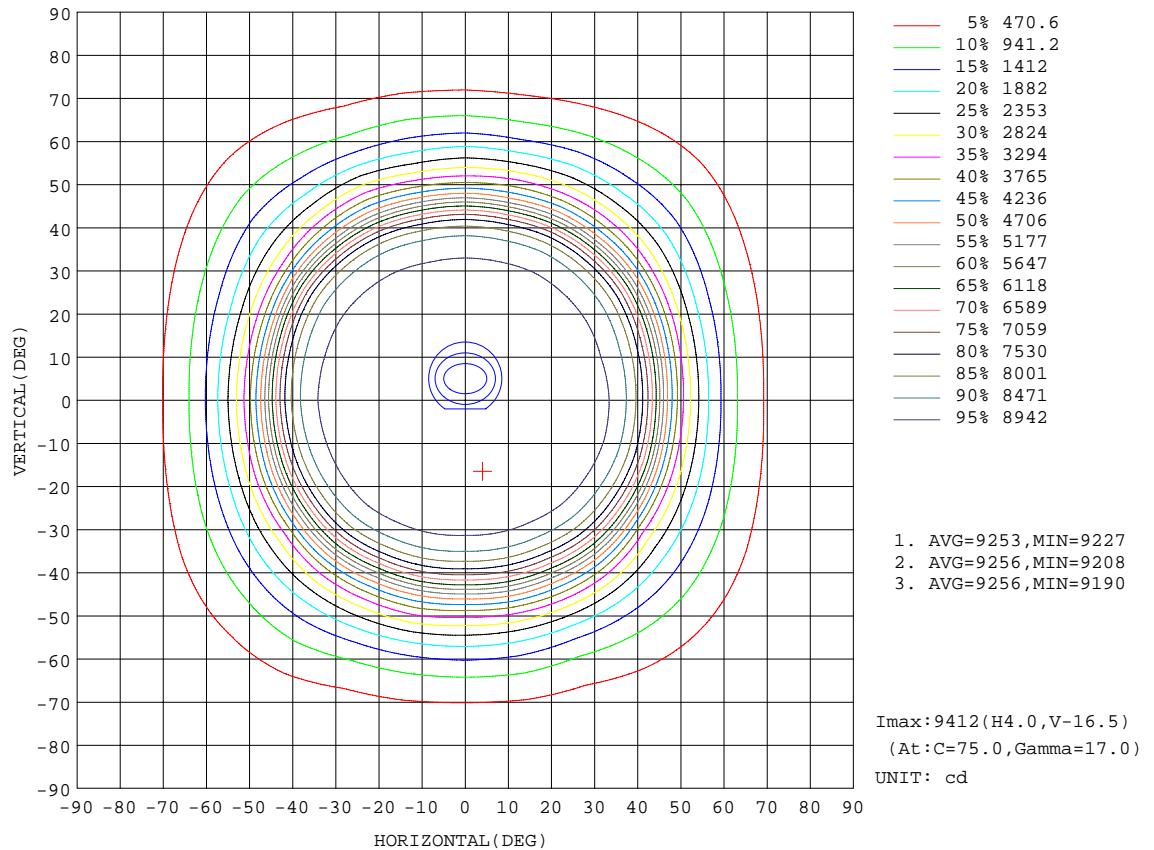
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	58	52	67	58	52	66	58	52	47
0.80	78	69	63	77	68	63	76	68	62	57
1.00	86	78	72	85	77	72	83	78	71	65
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	89	84	95	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	93	89	82
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	105	110	106	104	105	103	101	92
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:yanyonggeng  
Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:



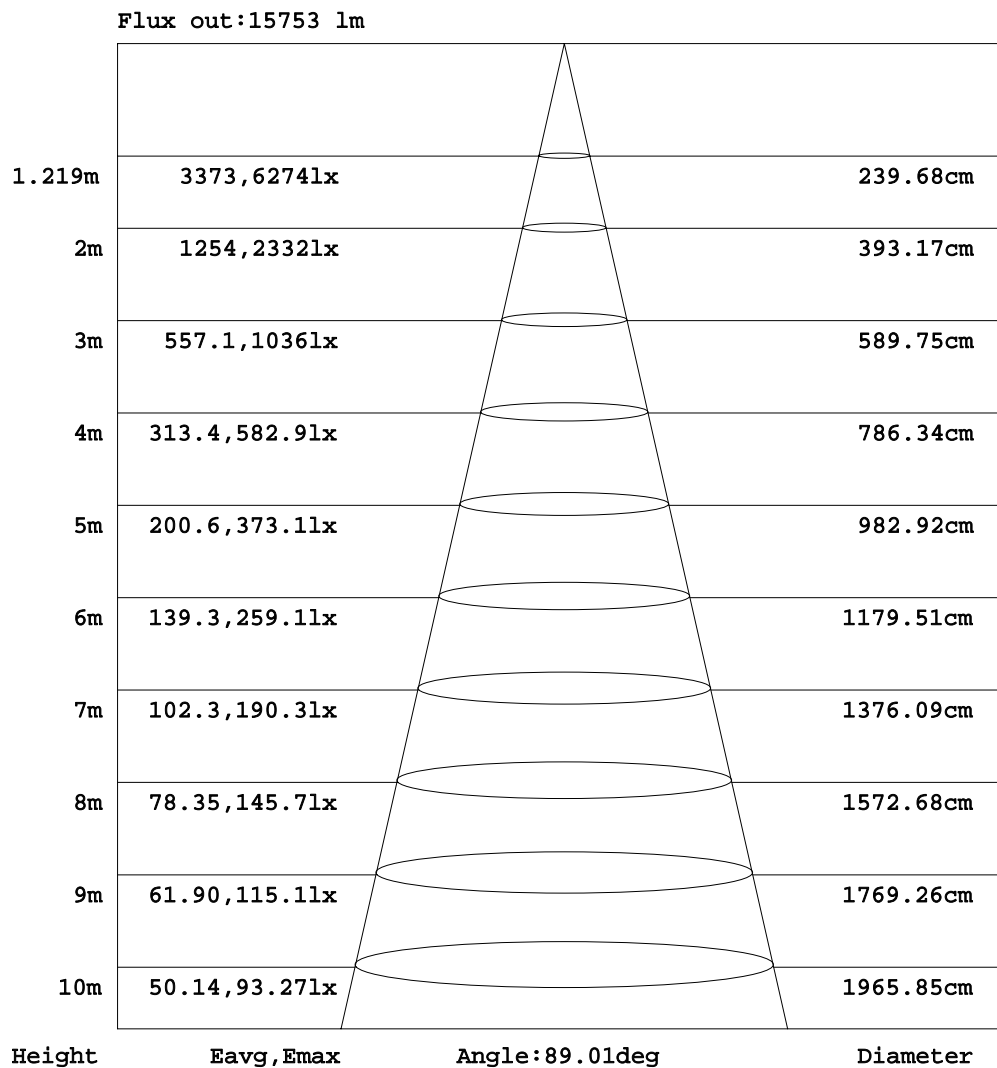
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:



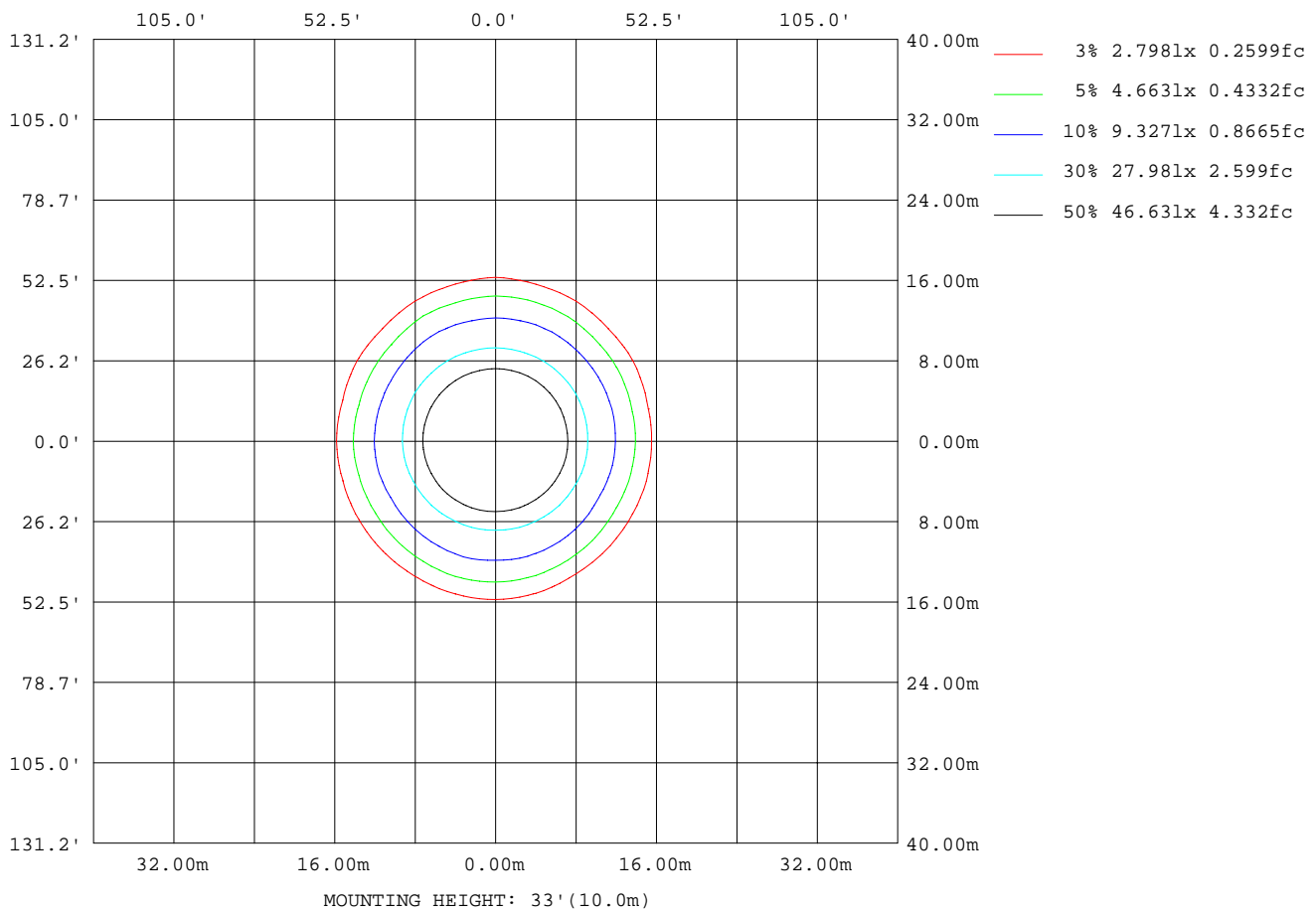
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yanyonggeng  
 Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

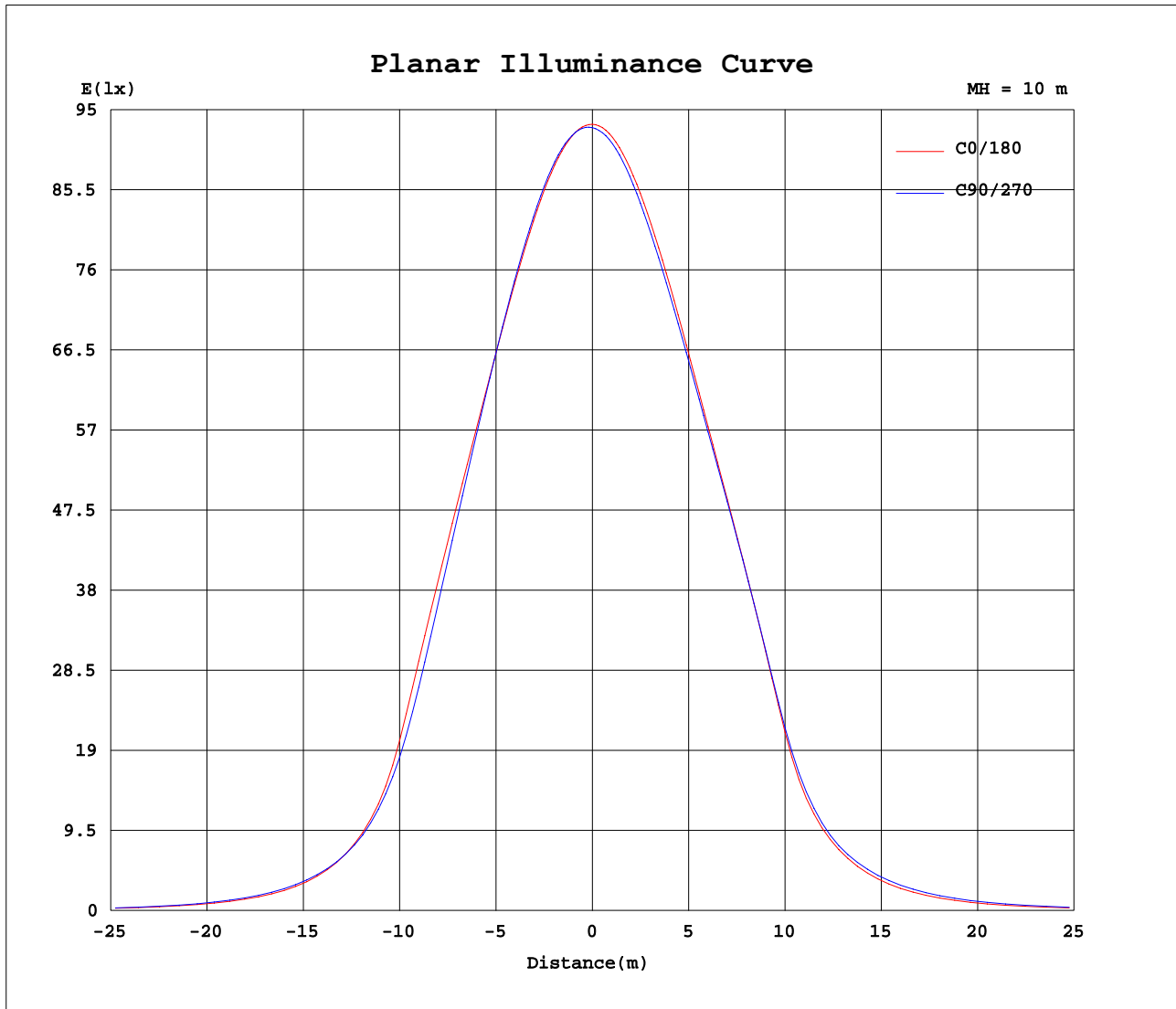
AvgL	cd/m2
L_0~180 (65) av	34902
L_0~180 (75) av	16406
L_0~180 (85) av	2653
L_90~270 (65) av	41651
L_90~270 (75) av	19013
L_90~270 (85) av	3113
L_45 (65) av	38221
L_45 (75) av	16772
L_45 (85) av	2953

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-8-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293	9293
5	9304	9317	9327	9335	9340	9345	9343	9340	9333	9325	9315	9301	9291	9280	9271	9265	9258	9257	9258
10	9318	9342	9360	9376	9386	9394	9392	9386	9373	9356	9334	9308	9284	9263	9242	9230	9221	9220	9222
15	9322	9354	9376	9395	9407	9417	9415	9411	9396	9375	9347	9313	9277	9244	9215	9196	9183	9182	9186
20	9303	9337	9359	9381	9390	9402	9400	9401	9388	9370	9342	9306	9264	9225	9191	9169	9156	9157	9163
25	9243	9277	9291	9307	9304	9312	9304	9312	9308	9313	9293	9263	9222	9188	9159	9140	9128	9127	9131
30	9098	9122	9114	9113	9079	9075	9058	9089	9107	9140	9143	9141	9114	9090	9079	9064	9054	9045	9047
35	8766	8760	8690	8640	8544	8519	8481	8548	8605	8719	8770	8833	8848	8852	8870	8863	8853	8827	8830
40	7865	7819	7645	7542	7342	7306	7233	7345	7418	7644	7766	7958	8067	8127	8216	8187	8176	8098	8105
45	5685	5613	5342	5315	5180	5241	5146	5226	5215	5406	5496	5789	5965	6026	6198	6099	6175	6110	6142
50	3473	3345	3182	3345	3397	3433	3386	3520	3435	3439	3390	3611	3690	3627	3630	3758	3962	3896	3927
55	2160	2121	2056	2099	2126	2216	2257	2281	2234	2217	2223	2264	2348	2295	2346	2375	2551	2502	2596
60	1306	1340	1331	1300	1283	1416	1451	1429	1386	1427	1417	1424	1445	1451	1546	1506	1564	1630	1702
65	759	803	799	778	742	856	867	858	814	884	851	873	843	891	954	931	923	1021	1046
70	424	459	449	444	415	476	480	485	454	504	487	509	476	514	553	547	524	593	600
75	213	230	214	196	199	229	230	239	221	232	240	259	248	264	287	269	271	299	304
80	86.7	85.5	64.3	73.9	54.9	80.7	88.0	86.0	67.7	86.1	76.3	97.6	108	110	102	106	95.3	122	127
85	8.85	6.61	7.11	7.75	7.09	6.37	8.11	6.97	8.70	12.2	11.9	12.5	16.3	12.8	15.1	21.1	18.6	16.0	21.4
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: yanyonggeng  
Test Date: 2024-8-24

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.3V I:0.4668A P:99.71W PF:0.9739 Freq:50.01Hz Lamp Flux:20906.8x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-100WHBE-NV-A2-00-5070-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.:Φ263mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	9293	9293	9293	9293	9293														
5	9262	9267	9275	9285	9295														
10	9229	9239	9255	9275	9297														
15	9200	9215	9238	9267	9296														
20	9177	9193	9219	9247	9277														
25	9143	9157	9176	9198	9222														
30	9055	9069	9076	9088	9094														
35	8828	8849	8837	8832	8793														
40	8073	8111	8079	8068	7960														
45	6028	6049	5968	6034	5865														
50	3912	3874	3721	3655	3576														
55	2545	2502	2372	2333	2198														
60	1598	1591	1499	1487	1361														
65	967	956	917	896	809														
70	553	538	523	510	458														
75	280	267	247	254	228														
80	112	85.3	92.3	81.8	88.3														
85	14.5	16.1	14.9	11.3	7.02														
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:yanyonggeng  
Test Date:2024-8-24

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks: