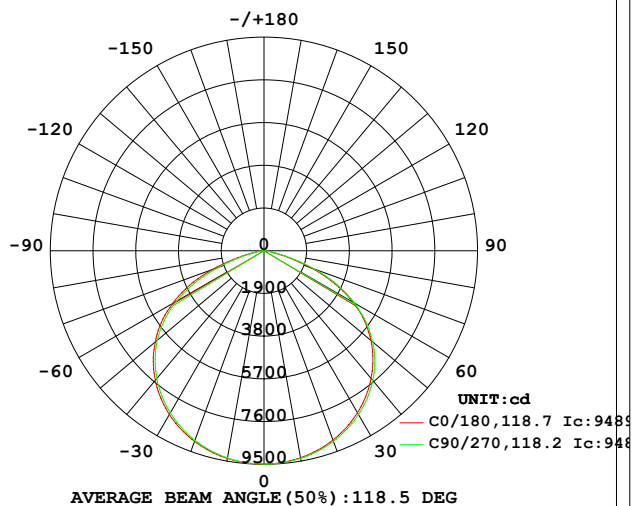


## LUMINAIRE PHOTOMETRIC TEST REPORT

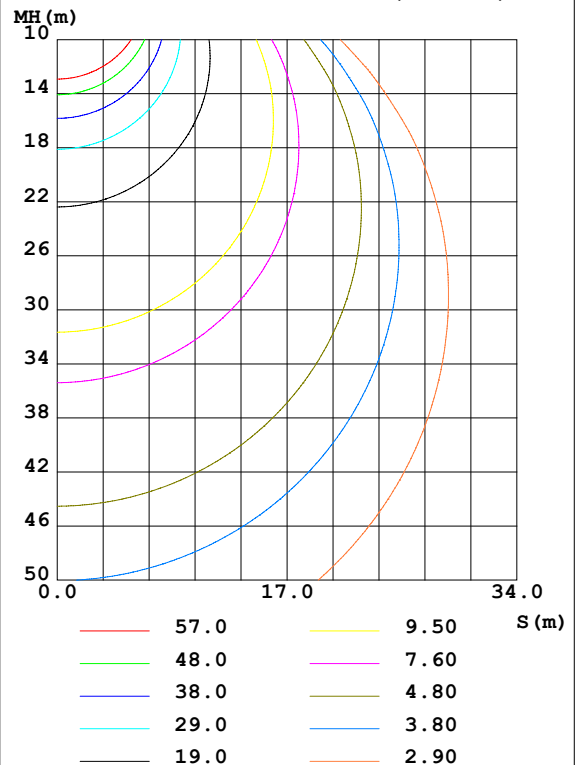
Test:U:219.3V I:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 183.62 lm/W			
MODEL	2835	I <sub>max</sub> (cd)	9490	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	27602	$\eta$ UP,DN (C0-180)	0.0,50.4
NOMINAL FLUX (lm)	27601.6	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,49.6
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.50

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:2024-8-22

$\gamma$  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	9350	9369	9377	9383	9381	9365	9357	9349	0- 10	899.9	899.9	3.26, 3.26
20	8961	9002	9023	9035	9025	8996	8974	8960	10- 20	2603	3503	12.7, 12.7
30	8320	8381	8411	8428	8414	8372	8333	8318	20- 30	4020	7523	27.3, 27.3
40	7410	7494	7532	7550	7521	7473	7415	7403	30- 40	4980	12504	45.3, 45.3
50	6218	6326	6309	6387	6314	6270	6198	6198	40- 50	5334	17838	64.6, 64.6
60	4553	4754	4646	4845	4697	4665	4487	4615	50- 60	4932	22771	82.5, 82.5
70	2221	2436	2402	2598	2444	2271	2145	2227	60- 70	3522	26292	95.3, 95.3
80	309.4	366.9	417.2	421.2	428.3	358.2	365.9	283.6	70- 80	1212	27504	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	97.77	27602	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	27602	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	27602	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	27602	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	27602	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	27602	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	27602	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	27602	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	27602	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	27602	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 15170 lm

%lum = 55.0%

%lamp = 55.0%

Conical surface Flux(120deg): 22771 lm

%lum = 82.5%

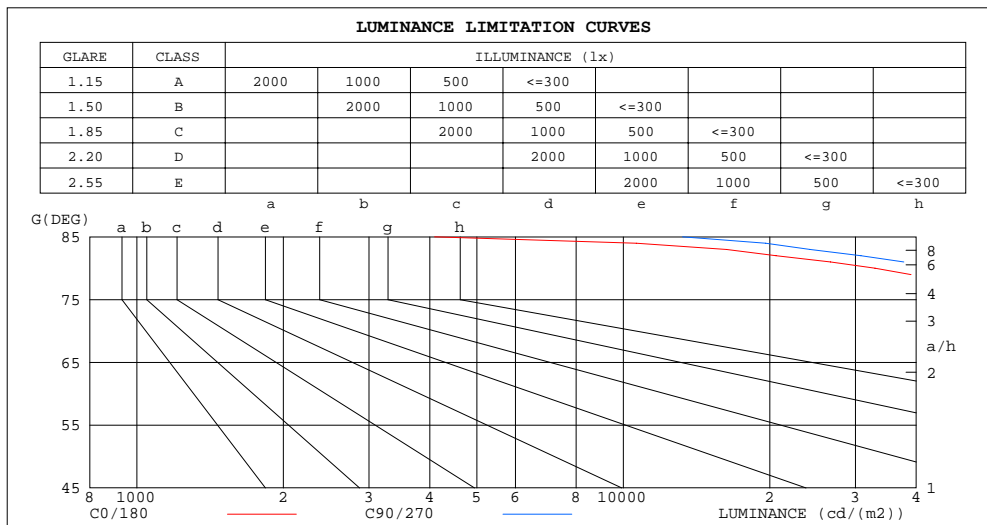
%lamp = 82.5%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-8-22

$\gamma$  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:

## LUMINANCE LIMITATION CURVES

Test:U:219.3V I:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4094	13234
80	32899	44202
75	72586	84631
70	119882	129201
65	152565	157393
60	168152	170969
55	176021	178033
50	178622	180591
45	178873	181399

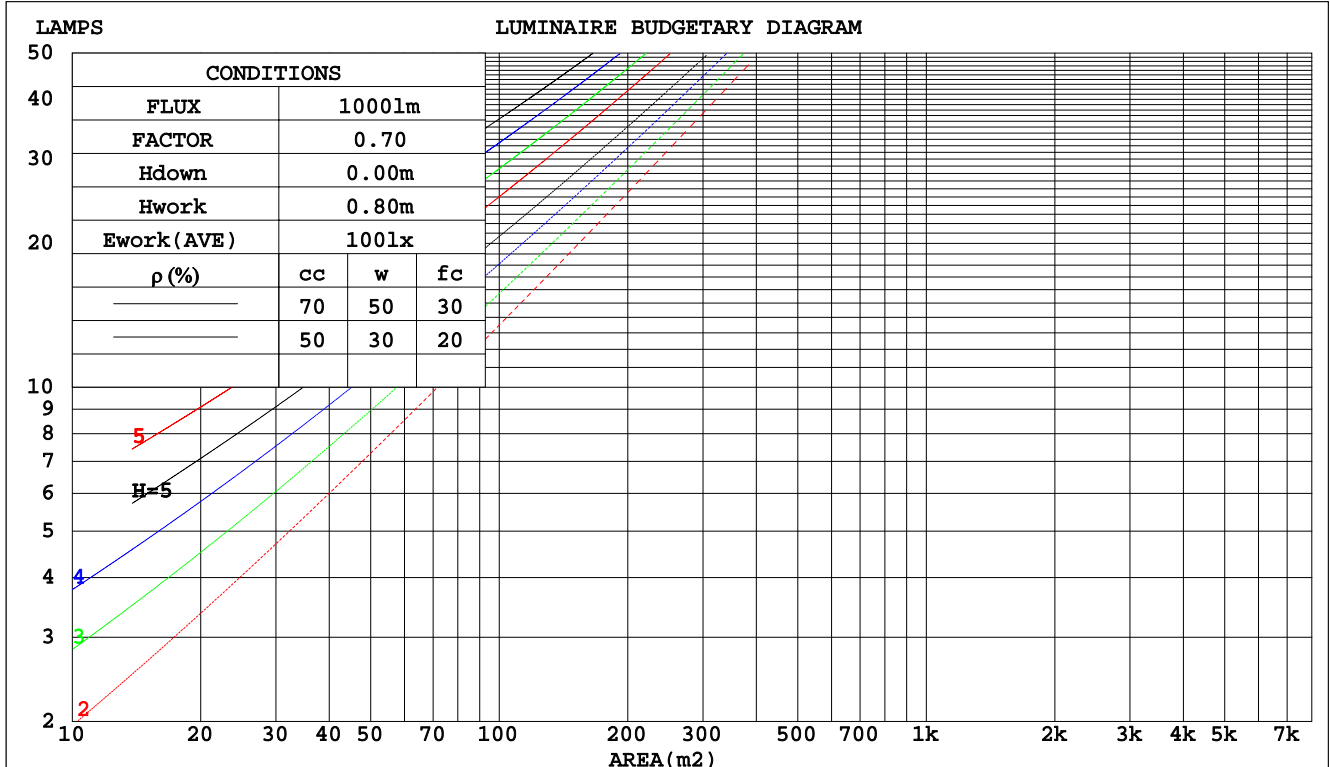
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.66	.63	.60
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.52
5.0	.64	.55	.48	.63	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.38	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.31	.26	.24



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-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	.284	.162	.051	.277	.158	.050	.264	.151	.048	.252	.145	.047	.241	.140	.045		
2.0	.276	.152	.046	.270	.149	.046	.259	.144	.045	.248	.139	.044	.238	.135	.042		
3.0	.260	.139	.042	.255	.137	.041	.245	.133	.040	.235	.129	.040	.227	.125	.039		
4.0	.243	.126	.037	.238	.125	.037	.229	.122	.036	.221	.119	.036	.213	.116	.035		
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.107	.032		
6.0	.211	.106	.030	.207	.105	.030	.200	.102	.030	.193	.100	.030	.187	.098	.029		
7.0	.197	.097	.028	.194	.096	.027	.187	.095	.027	.181	.093	.027	.175	.091	.027		
8.0	.184	.090	.025	.181	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025		
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023		
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.147	.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	.179	.156	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.012	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.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	.128	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.122	.064	.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: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm										
NAME: AOK HBE					TYPE:			WEIGHT:		
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-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	31.1	32.6	31.4	32.8	33.0	31.2	32.7	31.4	32.9	33.1
3H	32.3	33.6	32.6	33.9	34.1	32.3	33.7	32.6	34.0	34.2
4H	32.4	33.7	32.7	34.0	34.2	32.6	33.9	32.9	34.1	34.4
6H	32.4	33.6	32.7	33.9	34.2	32.6	33.8	32.9	34.1	34.3
8H	32.3	33.5	32.7	33.8	34.1	32.5	33.7	32.9	34.0	34.3
12H	32.3	33.4	32.6	33.7	34.0	32.5	33.6	32.8	33.9	34.2
4H 2H	31.7	33.0	32.0	33.3	33.5	31.7	33.0	32.1	33.3	33.6
3H	32.9	34.1	33.3	34.4	34.7	33.0	34.1	33.4	34.4	34.7
4H	33.1	34.2	33.5	34.5	34.8	33.2	34.3	33.6	34.6	34.9
6H	33.1	34.0	33.5	34.4	34.7	33.3	34.2	33.7	34.6	34.9
8H	33.1	33.9	33.5	34.3	34.7	33.3	34.1	33.7	34.5	34.9
12H	33.0	33.8	33.5	34.2	34.6	33.2	34.0	33.7	34.4	34.8
8H 4H	33.2	34.0	33.6	34.4	34.7	33.3	34.1	33.7	34.5	34.9
6H	33.2	33.9	33.6	34.3	34.7	33.4	34.0	33.8	34.5	34.9
8H	33.2	33.8	33.6	34.2	34.6	33.3	33.9	33.8	34.4	34.8
12H	33.1	33.6	33.6	34.1	34.6	33.3	33.8	33.8	34.3	34.8
12H 4H	33.1	33.9	33.5	34.3	34.7	33.2	34.0	33.7	34.4	34.8
6H	33.2	33.8	33.6	34.2	34.6	33.3	33.9	33.8	34.4	34.8
8H	33.1	33.7	33.6	34.1	34.6	33.3	33.8	33.8	34.3	34.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				
2.0H	+ 0.3 / - 0.6					+ 0.3 / - 0.5				

CIE Pub.117, 27602 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 11.5$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yanyonggeng  
 Test Date:2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

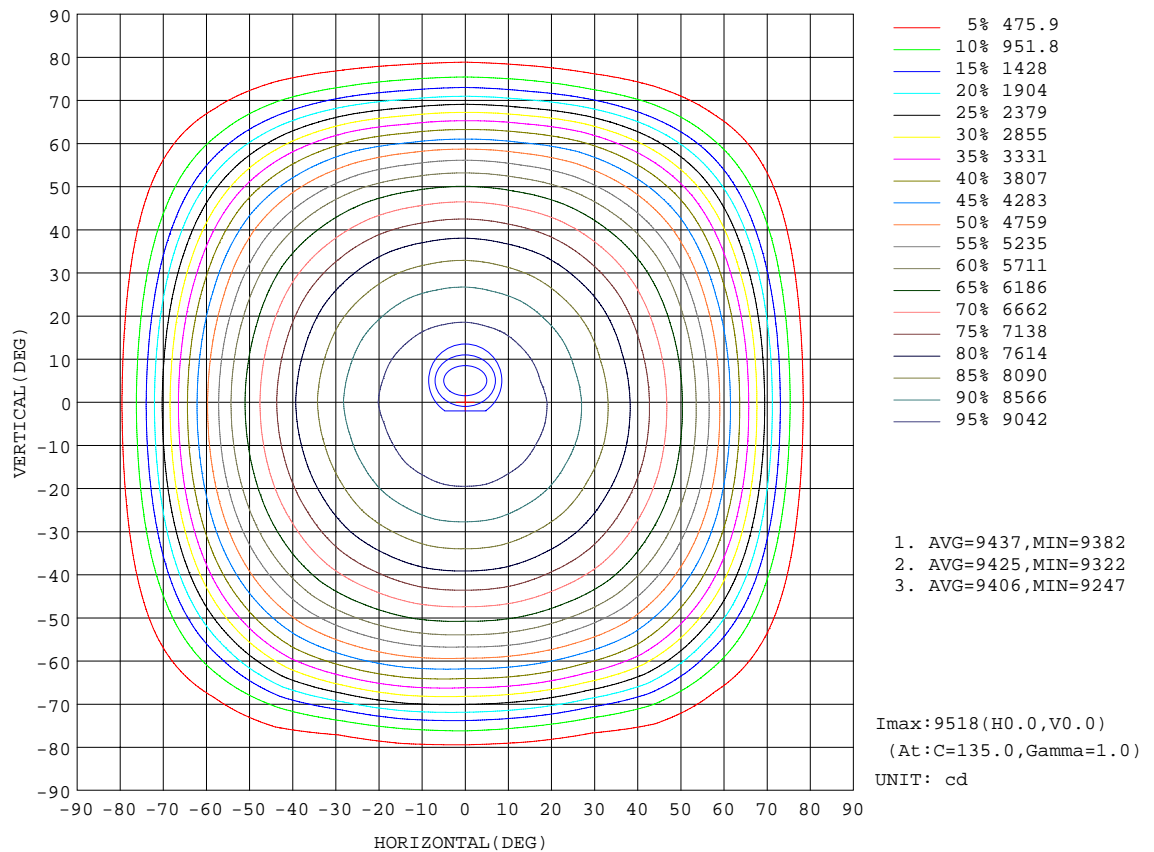
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	49	42
1.00	77	66	59	76	65	58	73	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
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:2024-8-22

$\gamma$  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:

## ISOCANDELA DIAGRAM

Test:U:219.3V I:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:



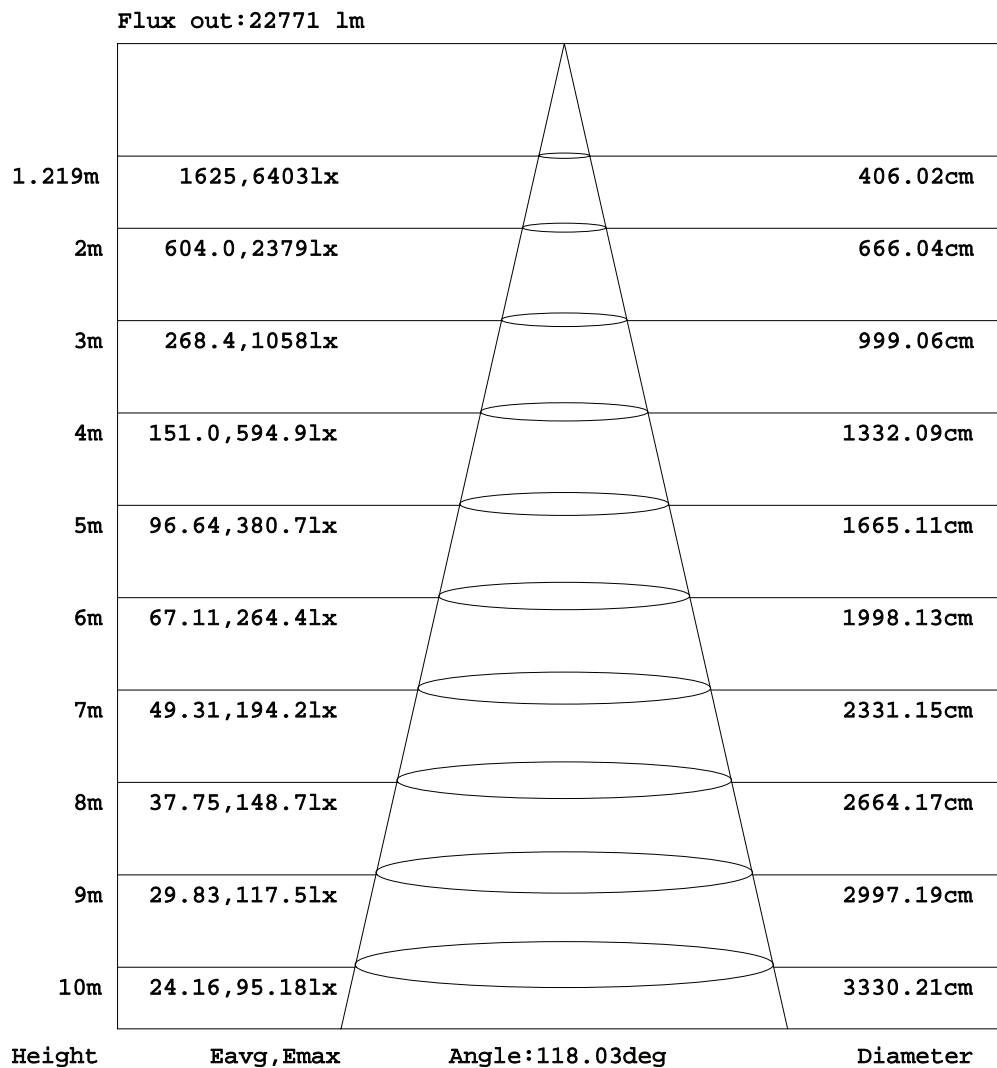
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:



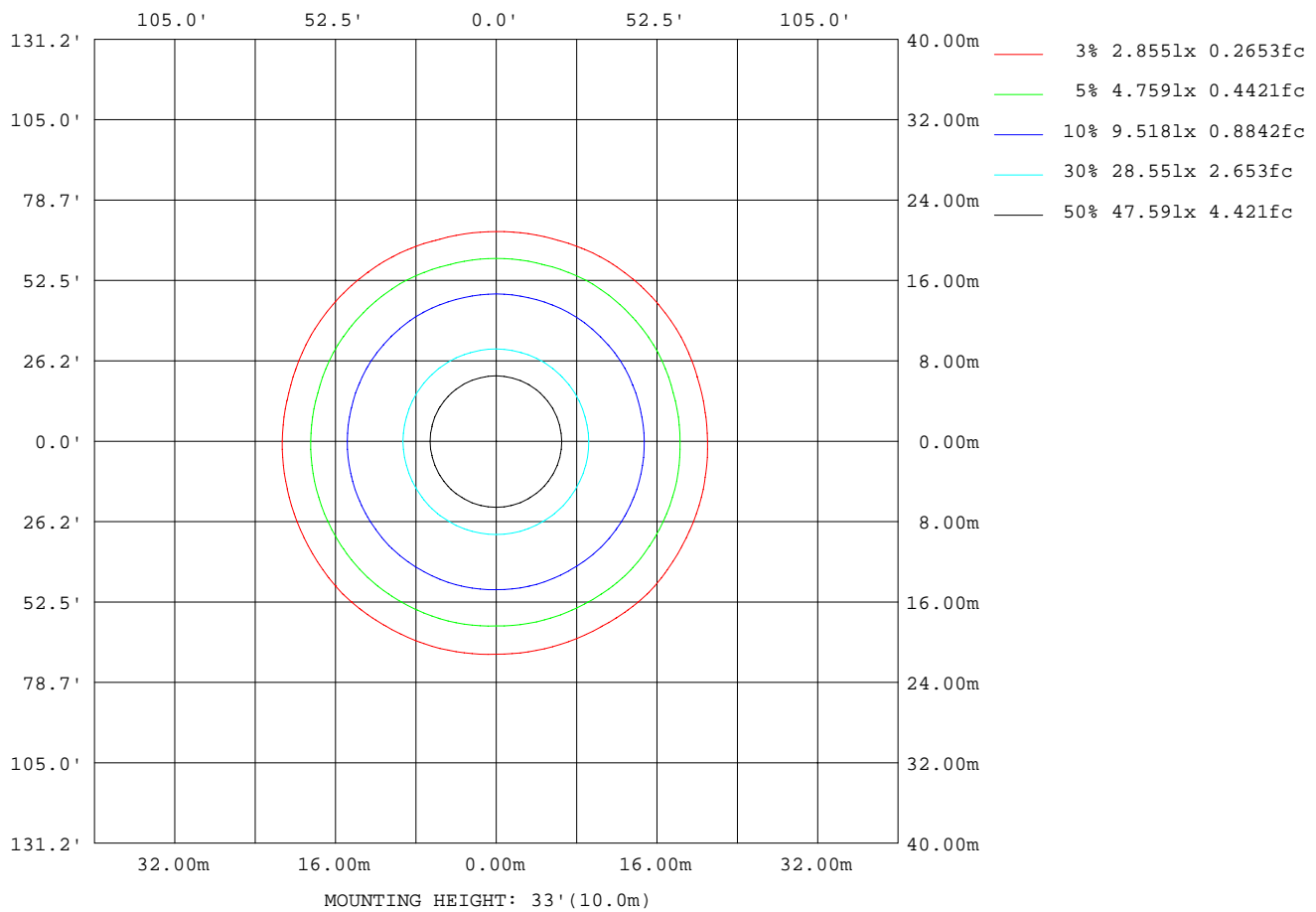
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.:Φ263mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-22

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:

## LED Avg.L Report

Test:U:219.3V I:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

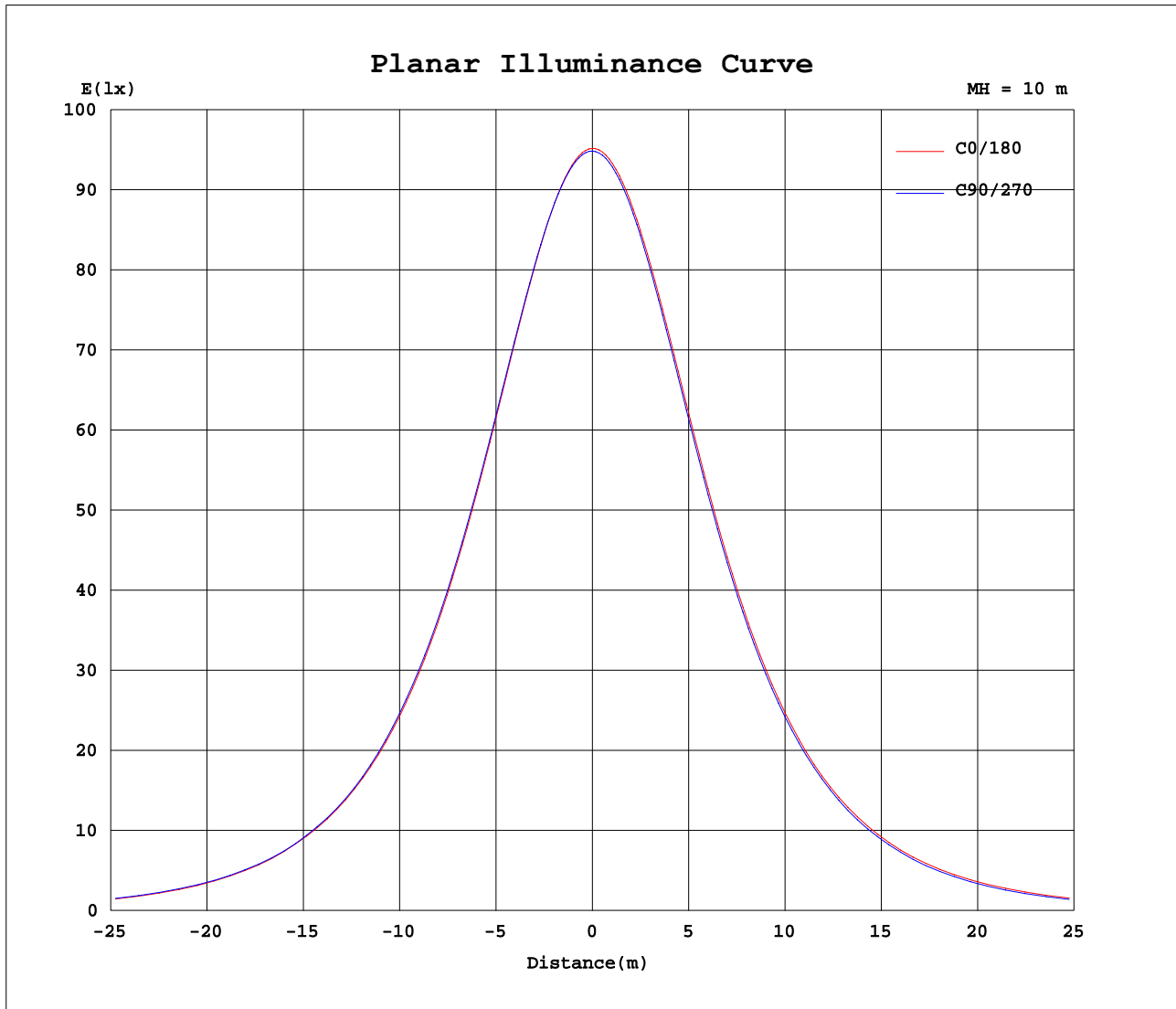
AvgL	cd/m2
L_0~180 (65) av	155989
L_0~180 (75) av	78730
L_0~180 (85) av	10401
L_90~270 (65) av	152742
L_90~270 (75) av	78801
L_90~270 (85) av	10516
L_45 (65) av	160843
L_45 (75) av	76508
L_45 (85) av	10497

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-8-22

$\gamma$  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: 2024-8-22

$\gamma$  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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-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	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489	9489
5	9451	9454	9455	9460	9459	9463	9463	9466	9465	9466	9464	9466	9464	9462	9460	9458	9458	9452	9454
10	9350	9358	9359	9369	9369	9378	9377	9383	9381	9383	9378	9381	9381	9373	9372	9365	9364	9355	9357
15	9186	9200	9201	9217	9219	9232	9231	9240	9236	9240	9233	9238	9234	9223	9223	9212	9211	9196	9198
20	8961	8979	8980	9002	9006	9025	9023	9035	9028	9035	9023	9029	9025	9011	9011	8996	8993	8976	8974
25	8672	8693	8694	8722	8726	8750	8748	8764	8754	8764	8748	8757	8751	8733	8734	8714	8709	8684	8684
30	8320	8346	8348	8381	8385	8412	8411	8429	8420	8428	8410	8417	8414	8395	8398	8372	8365	8334	8333
35	7902	7931	7936	7972	7978	8009	8008	8027	8016	8025	8003	8010	8002	7983	7987	7959	7949	7912	7909
40	7410	7447	7455	7494	7500	7535	7532	7554	7541	7550	7527	7531	7521	7499	7502	7473	7461	7418	7415
45	6850	6895	6905	6948	6947	6982	6971	7009	6994	7008	6976	6979	6967	6943	6948	6911	6897	6850	6845
50	6218	6272	6284	6326	6302	6326	6309	6360	6359	6387	6351	6344	6314	6289	6315	6270	6255	6199	6198
55	5468	5532	5566	5601	5560	5560	5550	5603	5627	5676	5635	5618	5584	5554	5563	5531	5510	5419	5420
60	4553	4655	4691	4754	4682	4658	4646	4744	4792	4845	4798	4752	4697	4642	4701	4665	4618	4497	4487
65	3492	3585	3632	3741	3622	3619	3615	3730	3773	3863	3767	3720	3670	3604	3639	3596	3531	3386	3398
70	2221	2268	2284	2436	2307	2363	2402	2496	2486	2598	2467	2445	2444	2319	2299	2271	2202	2105	2145
75	1017	954	986	1098	1029	1086	1190	1174	1138	1218	1148	1142	1196	1078	1011	1035	991	996	1025
80	309	308	269	367	294	374	417	418	353	421	358	402	428	379	341	358	340	332	366
85	19.3	19.6	21.2	33.0	26.1	42.6	62.7	65.4	59.7	82.3	57.9	68.4	79.2	58.3	55.5	66.0	47.8	29.4	36.9
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:2024-8-22

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:0.6959A P:150.3W PF:0.9851 Freq:50.01Hz Lamp Flux:27601.6x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-150WHBE-NV-L2-00-4080-120D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	9489	9489	9489	9489	9489														
5	9451	9454	9451	9453	9451														
10	9351	9354	9349	9353	9350														
15	9188	9193	9186	9192	9188														
20	8964	8969	8960	8966	8963														
25	8667	8678	8671	8679	8673														
30	8312	8327	8318	8333	8323														
35	7890	7905	7896	7912	7902														
40	7396	7415	7403	7420	7410														
45	6828	6852	6841	6857	6848														
50	6179	6211	6198	6222	6214														
55	5405	5471	5466	5495	5458														
60	4495	4610	4615	4632	4550														
65	3415	3540	3569	3569	3477														
70	2098	2183	2227	2224	2160														
75	983	921	952	915	970														
80	316	279	284	261	283														
85	21.5	19.6	17.5	17.9	17.7														
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:2024-8-22

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: