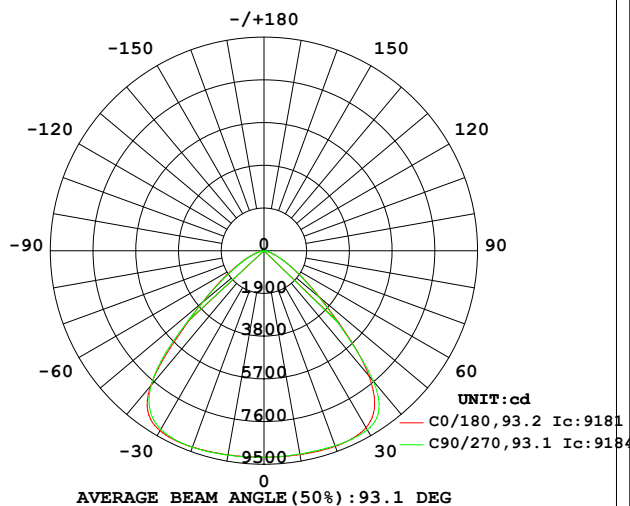


## LUMINAIRE PHOTOMETRIC TEST REPORT

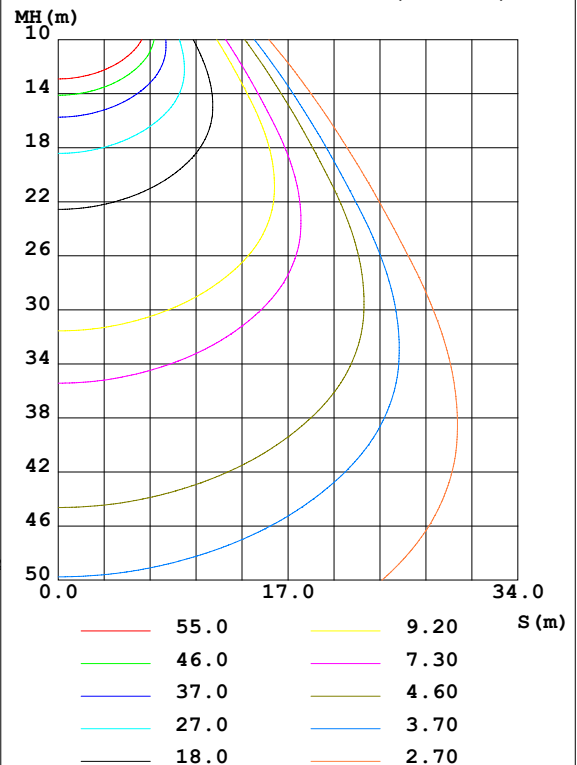
Test:U:219.3V I:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 170.10 lm/W			
MODEL	2835	I <sub>max</sub> (cd)	9323	S/MH (C0/180)	1.36
NOMINAL POWER (W)	120	LOR (%)	100.0	S/MH (C90/270)	1.38
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	20556	$\eta$ UP,DN (C0-180)	0.0,49.4
NOMINAL FLUX (lm)	20556.4	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.6
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:2024-10-24

$\gamma$  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	9203	9182	9178	9192	9220	9232	9232	9220	0- 10	877.8	877.8	4.27,4.27
20	9257	9219	9229	9251	9295	9308	9300	9291	10- 20	2619	3497	17,17
30	9081	9114	9189	9188	9242	9230	9174	9146	20- 30	4281	7779	37.8,37.8
40	7273	7431	7560	7675	7849	7909	7802	7401	30- 40	5415	13194	64.2,64.2
50	3245	3274	3186	3461	3599	3654	3562	3384	40- 50	4132	17326	84.3,84.3
60	1339	1333	1317	1438	1498	1477	1426	1393	50- 60	2028	19353	94.1,94.1
70	473.1	477.5	475.6	538.6	537.9	544.8	515.2	505.1	60- 70	885.6	20239	98.5,98.5
80	104.3	96.17	108.2	116.6	130.9	116.8	120.5	104.8	70- 80	287.6	20527	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	29.66	20556	100,100
100	0	0	0	0	0	0	0	0	90-100	0	20556	100,100
110	0	0	0	0	0	0	0	0	100-110	0	20556	100,100
120	0	0	0	0	0	0	0	0	110-120	0	20556	100,100
130	0	0	0	0	0	0	0	0	120-130	0	20556	100,100
140	0	0	0	0	0	0	0	0	130-140	0	20556	100,100
150	0	0	0	0	0	0	0	0	140-150	0	20556	100,100
160	0	0	0	0	0	0	0	0	150-160	0	20556	100,100
170	0	0	0	0	0	0	0	0	160-170	0	20556	100,100
180	0	0	0	0	0	0	0	0	170-180	0	20556	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 15601 lm

%lum = 75.9%

%lamp = 75.9%

Conical surface Flux(120deg): 19353 lm

%lum = 94.1%

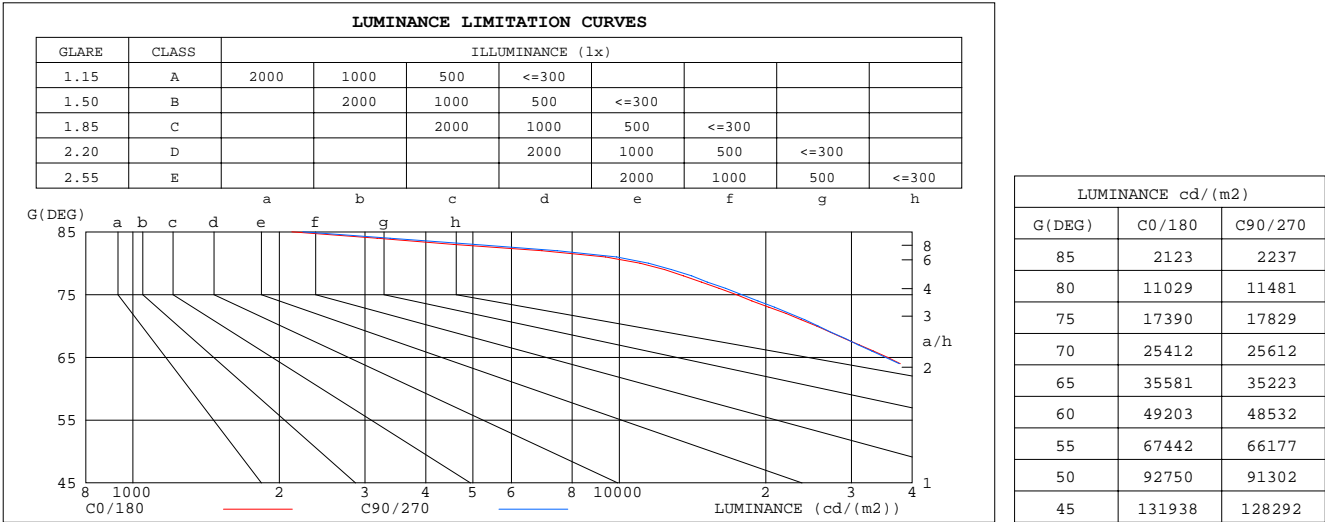
%lamp = 94.1%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.:Φ263mm	Shielding Angle:



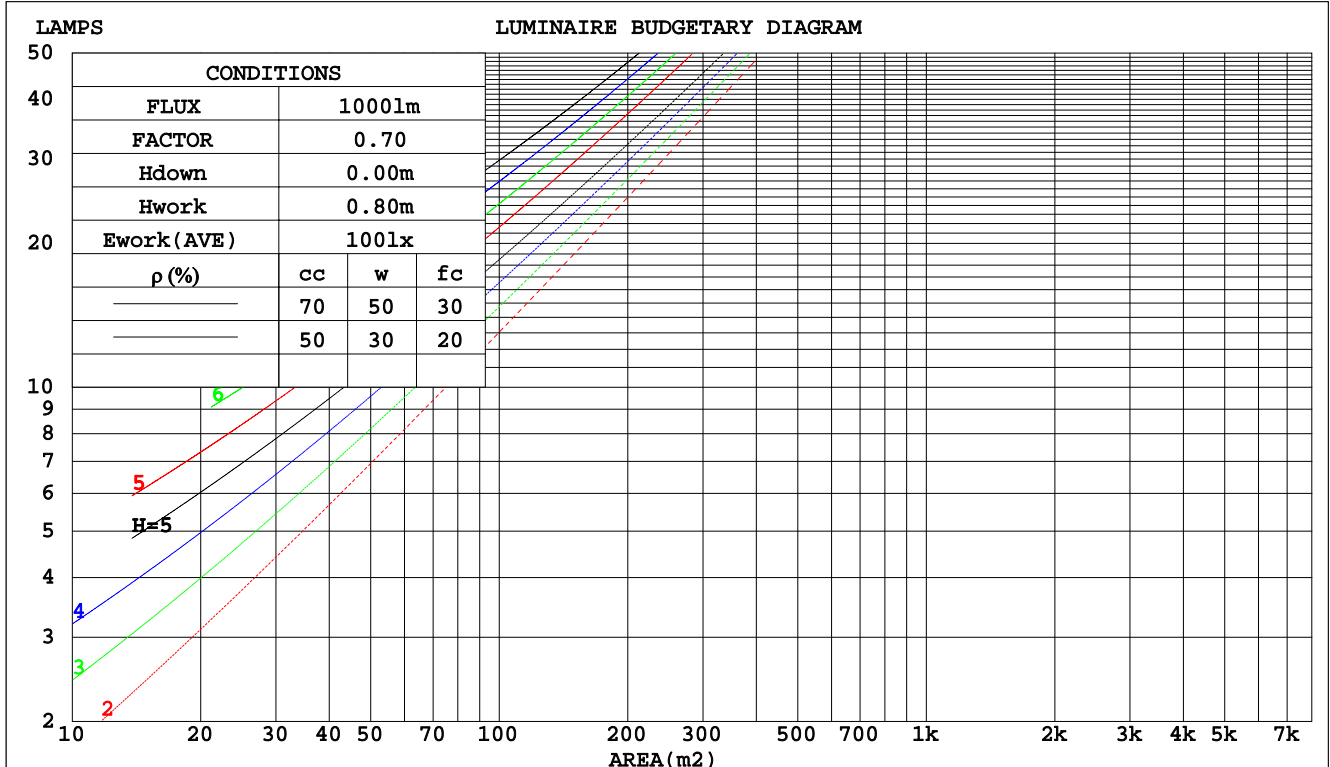
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-10-24

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.3V I:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-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	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	.76	.86	.80	.75	.83	.78	.74	.81	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.66	.75	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.64	.58	.71	.63	.58	.69	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.58	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.55	.50	.49
7.0	.60	.52	.47	.59	.52	.46	.58	.51	.46	.56	.50	.46	.55	.50	.45	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.39
9.0	.51	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yanyonggeng  
Test Date: 2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm					
NAME: AOK HBE			TYPE:		WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-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	.233	.133	.042	.226	.129	.041	.214	.123	.039	.202	.116	.037	.191	.111	.036	
2.0	.228	.125	.038	.222	.122	.038	.211	.117	.036	.201	.113	.035	.191	.108	.034	
3.0	.218	.116	.035	.213	.114	.034	.203	.110	.033	.194	.106	.033	.186	.103	.032	
4.0	.207	.108	.032	.202	.106	.031	.194	.103	.031	.186	.100	.030	.178	.097	.030	
5.0	.196	.100	.029	.192	.098	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.185	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.081	.024	
8.0	.166	.081	.023	.163	.080	.023	.158	.079	.022	.153	.077	.022	.148	.076	.022	
9.0	.157	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.072	.021	
10.0	.150	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

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	.154	.114	.082	.132	.098	.071	.091	.068	.050	.053	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.126	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.120	.077	.046	.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	.012	.014	.008	.004	
9.0	.116	.063	.027	.100	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.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:2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm												
NAME: AOK HBE					TYPE:			WEIGHT:				
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-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	2H	27.1	28.4	27.3	28.5	28.7	27.1	28.4	27.3	28.5	28.7	
	3H	27.2	28.4	27.5	28.6	28.8	27.2	28.4	27.5	28.6	28.8	
	4H	27.2	28.3	27.5	28.5	28.8	27.2	28.3	27.5	28.5	28.8	
	6H	27.1	28.1	27.4	28.4	28.7	27.1	28.2	27.4	28.4	28.7	
	8H	27.1	28.1	27.4	28.3	28.6	27.1	28.1	27.4	28.4	28.6	
	12H	27.0	28.0	27.4	28.3	28.5	27.0	28.0	27.4	28.3	28.6	
	4H	2H	27.1	28.2	27.4	28.4	28.7	27.1	28.2	27.4	28.4	28.7
		3H	27.3	28.2	27.6	28.5	28.8	27.3	28.2	27.6	28.5	28.8
		4H	27.3	28.1	27.6	28.4	28.8	27.3	28.2	27.7	28.5	28.8
		6H	27.2	28.0	27.6	28.3	28.7	27.3	28.0	27.7	28.4	28.7
		8H	27.2	27.9	27.6	28.3	28.6	27.2	27.9	27.6	28.3	28.7
		12H	27.1	27.8	27.6	28.2	28.6	27.2	27.8	27.6	28.2	28.6
8H	4H	27.2	27.9	27.6	28.3	28.6	27.2	27.9	27.6	28.3	28.6	
	6H	27.2	27.7	27.6	28.1	28.6	27.2	27.8	27.6	28.2	28.6	
	8H	27.1	27.6	27.6	28.1	28.5	27.2	27.7	27.6	28.1	28.5	
	12H	27.1	27.5	27.6	28.0	28.4	27.1	27.6	27.6	28.0	28.5	
12H	4H	27.1	27.8	27.6	28.2	28.6	27.2	27.8	27.6	28.2	28.6	
	6H	27.1	27.6	27.6	28.1	28.5	27.2	27.7	27.6	28.1	28.5	
	8H	27.1	27.5	27.6	28.0	28.4	27.1	27.6	27.6	28.0	28.5	
Variations with the observer position at spacings:												
S = 1.0H	+ 1.5 / - 2.3					+ 1.4 / - 2.3						
1.5H	+ 1.5 / - 1.8					+ 1.7 / - 1.6						
2.0H	+ 3.0 / - 2.8					+ 2.8 / - 2.6						

CIE Pub.117, 20556 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 10.5$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yanyonggeng  
 Test Date:2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:

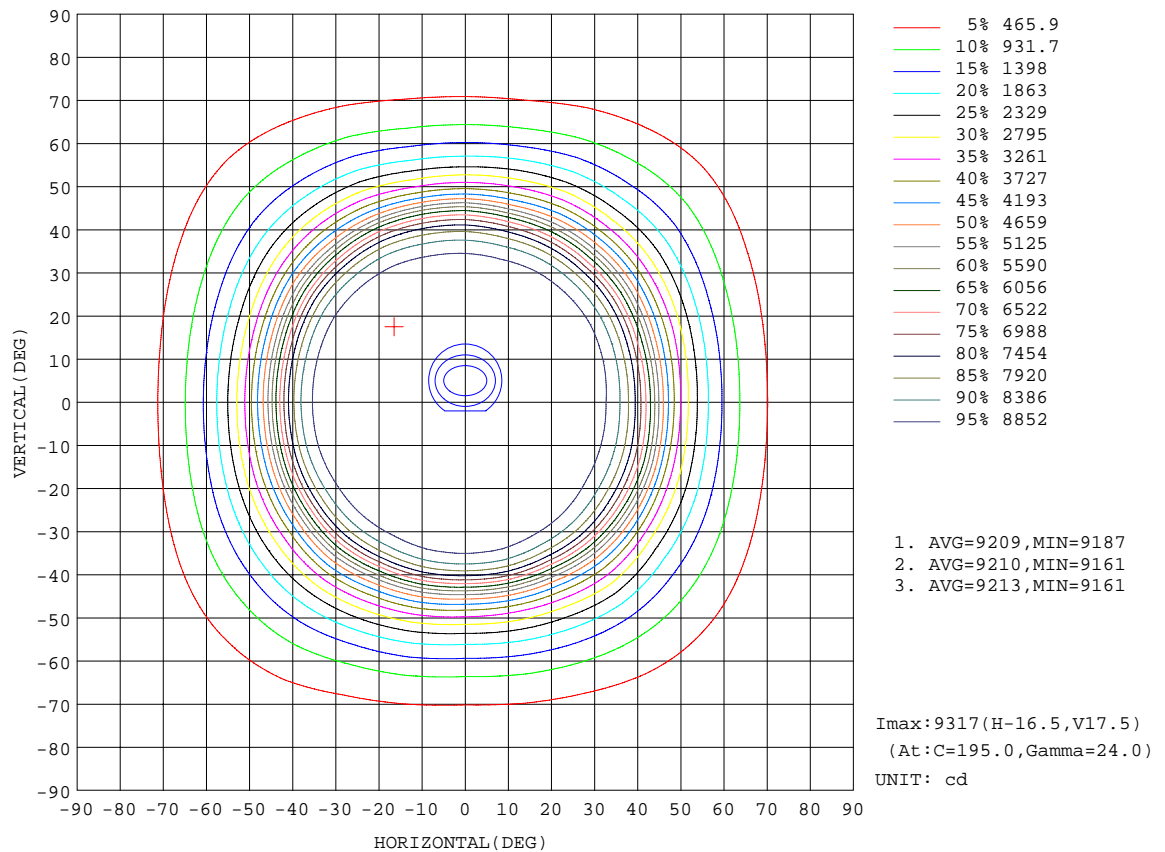
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	79	69	64	78	69	63	76	68	63	58
1.00	87	78	72	86	78	72	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	101	95	91	98	93	89	83
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:2024-10-24

$\gamma$  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:

## ISOCANDELA DIAGRAM

Test:U:219.3V I:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 263mm	Shielding Angle:



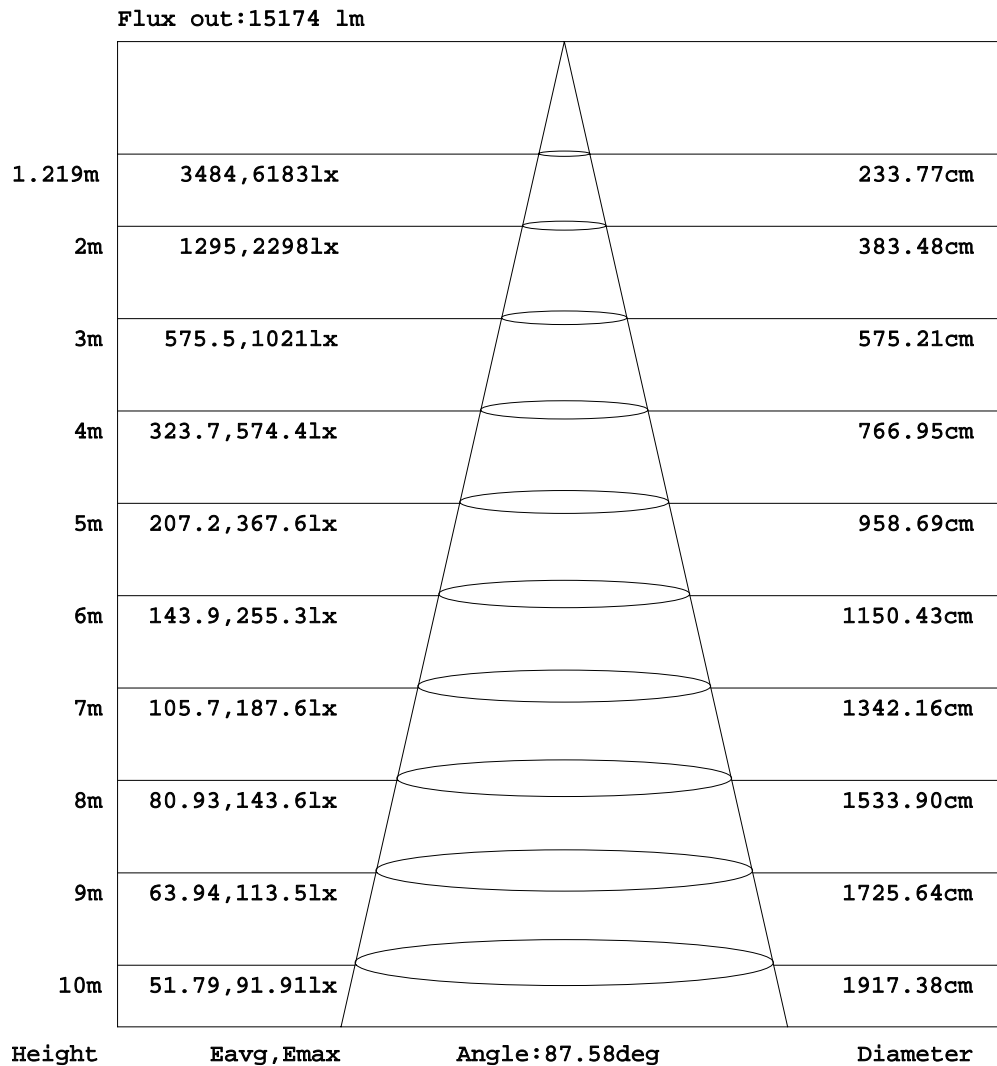
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:



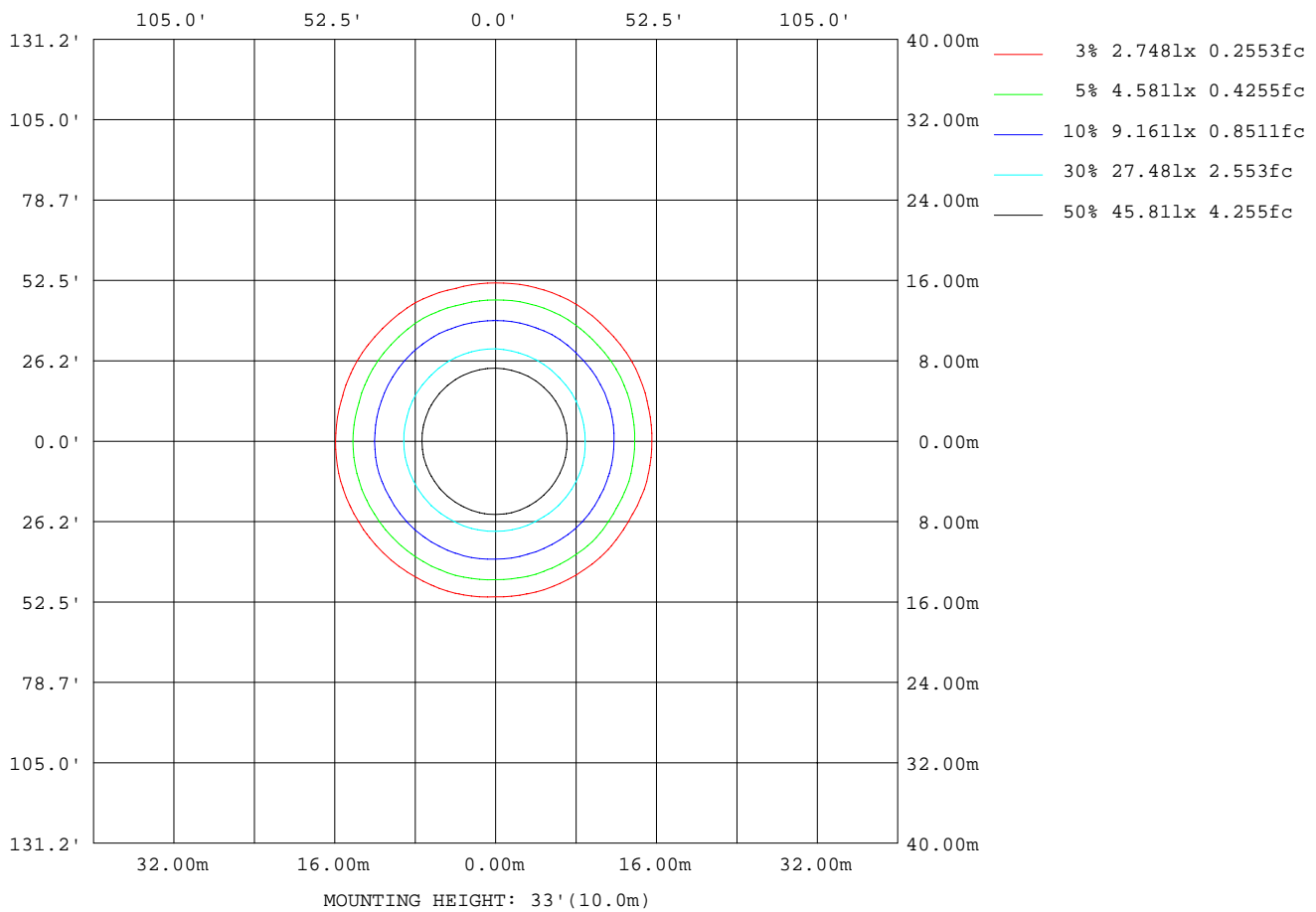
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yanyonggeng  
 Test Date:2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-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: 2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 263mm	Shielding Angle:

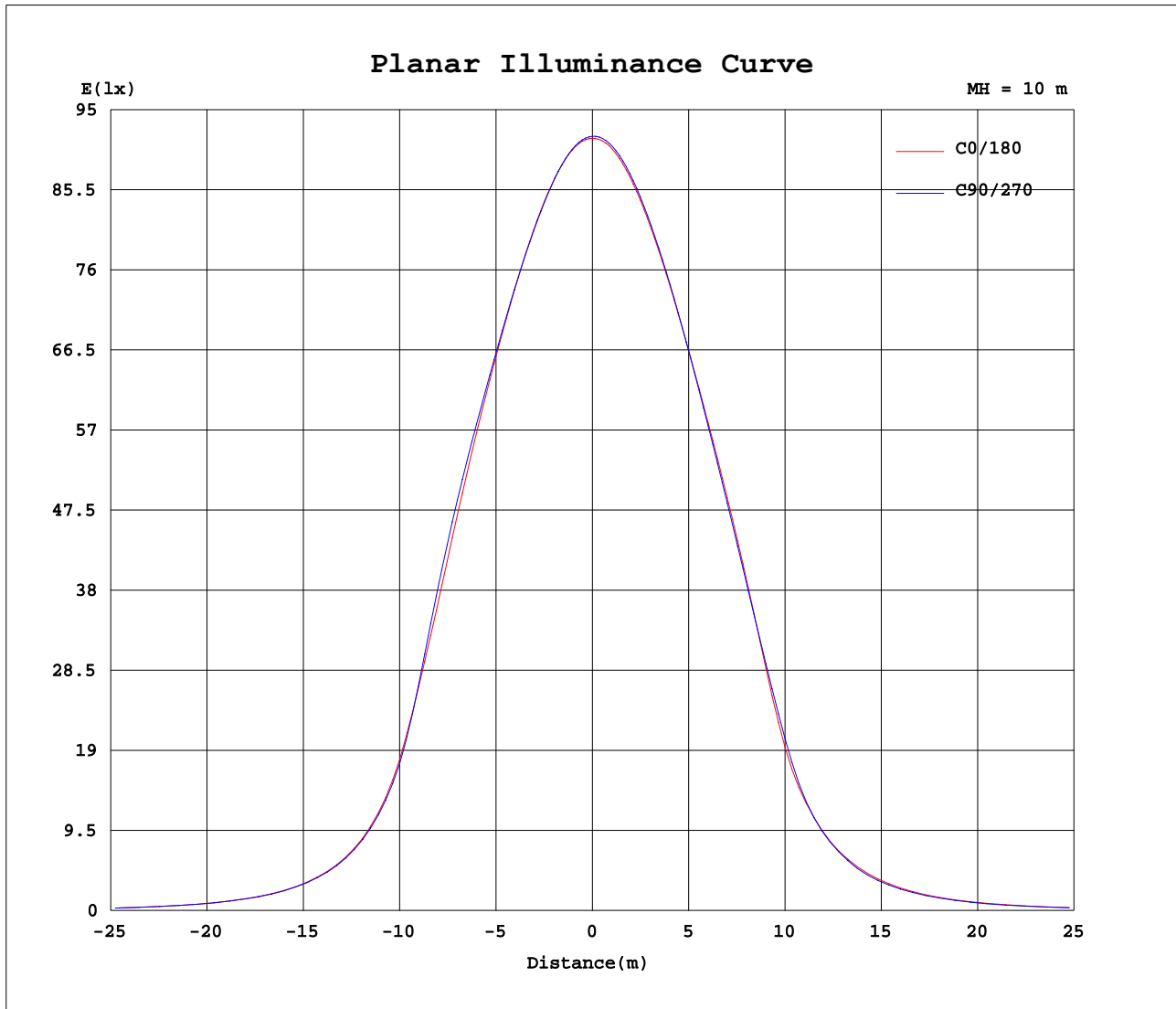
AvgL	cd/m2
L_0~180 (65) av	37983
L_0~180 (75) av	19119
L_0~180 (85) av	3119
L_90~270 (65) av	36615
L_90~270 (75) av	18817
L_90~270 (85) av	2761
L_45 (65) av	37915
L_45 (75) av	18980
L_45 (85) av	3531

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yanyonggeng  
Test Date:2024-10-24

$\gamma$  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: 2024-10-24

$\gamma$  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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-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	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181	9181
5	9188	9183	9181	9177	9175	9175	9174	9175	9180	9182	9187	9191	9196	9201	9201	9204	9204	9205	9202
10	9203	9194	9188	9182	9178	9178	9178	9180	9187	9192	9204	9210	9220	9226	9229	9232	9233	9235	9232
15	9233	9217	9208	9196	9193	9191	9195	9196	9208	9215	9232	9242	9253	9265	9268	9271	9270	9273	9269
20	9257	9241	9227	9219	9222	9223	9229	9233	9243	9251	9269	9281	9295	9307	9308	9308	9305	9304	9300
25	9229	9216	9207	9211	9224	9238	9245	9246	9252	9260	9278	9295	9313	9322	9321	9317	9310	9296	9290
30	9081	9075	9078	9114	9142	9178	9189	9193	9180	9188	9198	9226	9242	9249	9250	9230	9217	9188	9174
35	8561	8592	8612	8692	8753	8846	8857	8857	8810	8825	8833	8889	8926	8935	8945	8912	8891	8828	8791
40	7273	7378	7364	7431	7404	7560	7560	7623	7573	7675	7679	7797	7849	7879	7955	7909	7946	7862	7802
45	5079	5215	5070	5024	4870	4950	4925	5100	5112	5306	5283	5413	5490	5523	5683	5628	5790	5791	5766
50	3245	3244	3209	3274	3181	3161	3186	3321	3366	3461	3429	3561	3599	3575	3635	3654	3659	3552	3562
55	2106	2112	2034	2125	2092	2091	2061	2163	2197	2232	2266	2325	2349	2310	2348	2337	2355	2239	2234
60	1339	1341	1300	1333	1343	1347	1317	1393	1392	1438	1449	1500	1498	1477	1500	1477	1496	1416	1426
65	819	816	799	816	821	836	808	856	855	896	894	930	925	908	928	910	921	869	873
70	473	467	464	477	476	490	476	501	501	539	529	546	538	535	555	545	545	518	515
75	245	238	217	245	226	250	251	258	248	286	261	284	293	278	287	284	285	273	279
80	104	86.9	65.8	96.2	68.1	96.2	108	105	79.0	117	92.5	110	131	122	90.5	117	94.1	113	120
85	10.1	9.52	10.2	11.1	9.69	9.17	10.6	11.2	14.8	18.4	16.9	15.0	19.5	16.4	18.2	21.3	19.6	14.1	15.6
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:2024-10-24

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:0.5625A P:120.8W PF:0.9799 Freq:50.01Hz Lamp Flux:20556.4x1 lm		
NAME: AOK HBE	TYPE:	WEIGHT:
SPEC.:AOK-120WHBE-NV-L2-00-3080-90D-P	DIM.:	SERIAL No.:
MFR.: AOK	SUR.:Φ263mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	9181	9181	9181	9181	9181													
5	9202	9200	9198	9194	9191													
10	9229	9224	9220	9216	9209													
15	9268	9263	9260	9252	9243													
20	9297	9295	9291	9280	9270													
25	9281	9282	9274	9262	9246													
30	9153	9155	9146	9143	9113													
35	8729	8731	8683	8669	8599													
40	7630	7545	7401	7388	7289													
45	5442	5337	5164	5161	5066													
50	3510	3515	3384	3356	3344													
55	2271	2275	2177	2204	2146													
60	1421	1450	1393	1413	1344													
65	866	885	860	866	811													
70	501	519	505	501	466													
75	260	263	253	246	240													
80	105	86.3	105	75.2	93.7													
85	13.9	16.0	16.0	15.2	11.3													
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:2024-10-24

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: