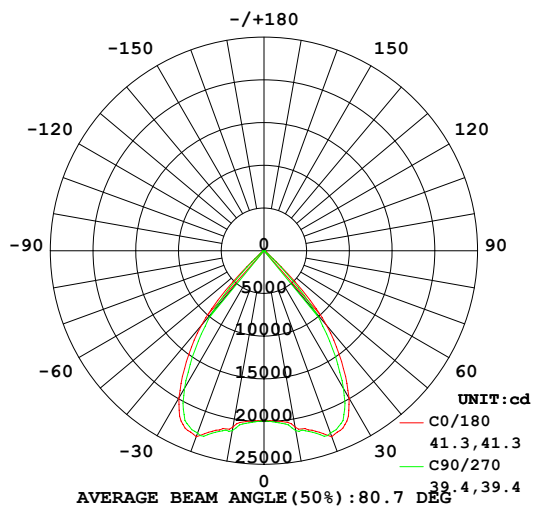


LUMINAIRE PHOTOMETRIC TEST REPORT

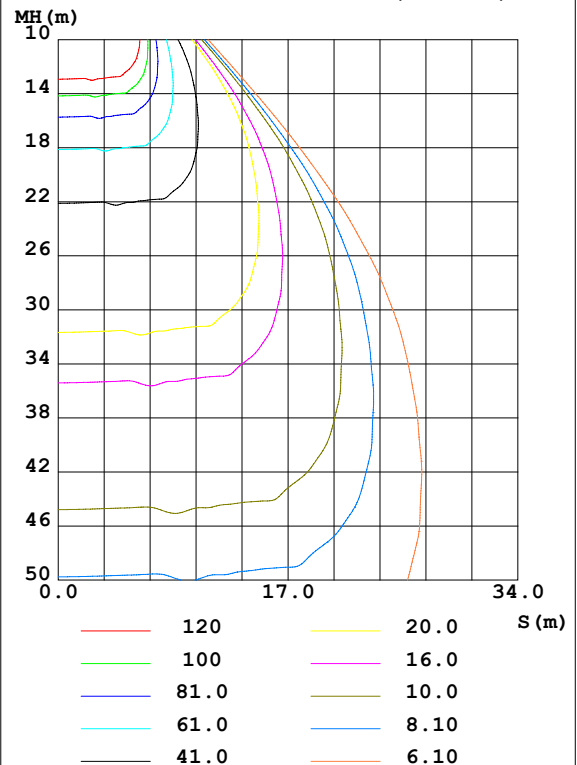
Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WøH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.13 lm/W			
MODEL	3030	I _{max} (cd)	23341	S/MH (C0/180)	1.20
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.14
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	31328	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	31327.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.15

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:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2095	2111	2138	2111	2095	2111	2138	2111	0- 10	1949	1949	6.22,6.22
20	2317	2291	2272	2291	2317	2291	2272	2291	10- 20	6279	8228	26.3,26.3
30	1993	1864	1861	1864	1993	1864	1861	1864	20- 30	9974	18202	58.1,58.1
40	1137	958.8	923.8	958.8	1137	958.8	923.8	958.8	30- 40	8975	27177	86.8,86.8
50	114.6	87.15	88.21	87.15	114.6	87.15	88.21	87.15	40- 50	3373	30550	97.5,97.5
60	25.91	24.85	24.82	24.85	25.91	24.85	24.82	24.85	50- 60	400.8	30951	98.8,98.8
70	16.50	16.04	16.14	16.04	16.50	16.04	16.14	16.04	60- 70	196.9	31148	99.4,99.4
80	8.905	7.854	7.685	7.854	8.905	7.854	7.685	7.854	70- 80	127.5	31276	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	52.05	31328	100,100
100	0	0	0	0	0	0	0	0	90-100	0	31328	100,100
110	0	0	0	0	0	0	0	0	100-110	0	31328	100,100
120	0	0	0	0	0	0	0	0	110-120	0	31328	100,100
130	0	0	0	0	0	0	0	0	120-130	0	31328	100,100
140	0	0	0	0	0	0	0	0	130-140	0	31328	100,100
150	0	0	0	0	0	0	0	0	140-150	0	31328	100,100
160	0	0	0	0	0	0	0	0	150-160	0	31328	100,100
170	0	0	0	0	0	0	0	0	160-170	0	31328	100,100
180	0	0	0	0	0	0	0	0	170-180	0	31328	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 29735 lm

%lum = 94.9%

%lamp = 94.9%

Conical surface Flux(120deg): 30951 lm

%lum = 98.8%

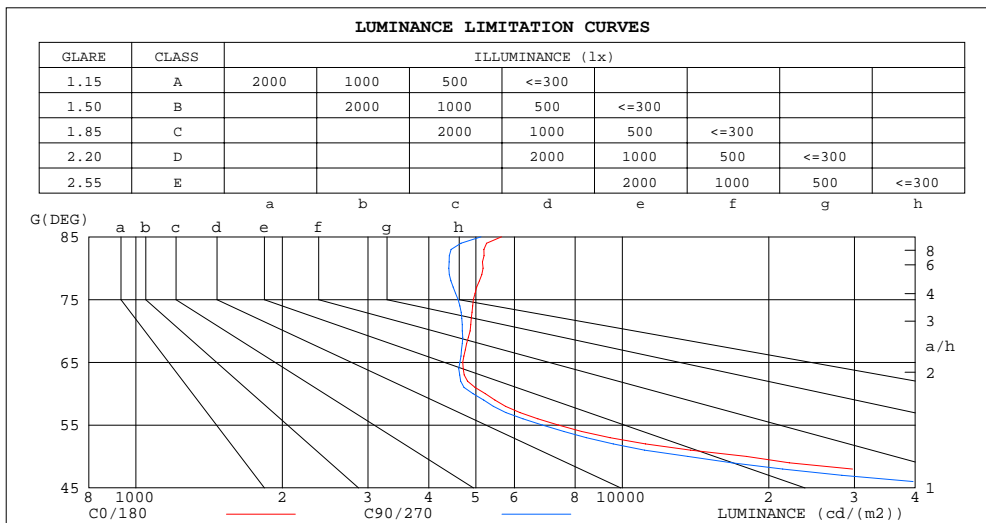
%lamp = 98.8%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5645	5122
80	5173	4398
75	4938	4597
70	4866	4688
65	4700	4634
60	5228	4932
55	7387	6846
50	17991	13637
45	73641	50606

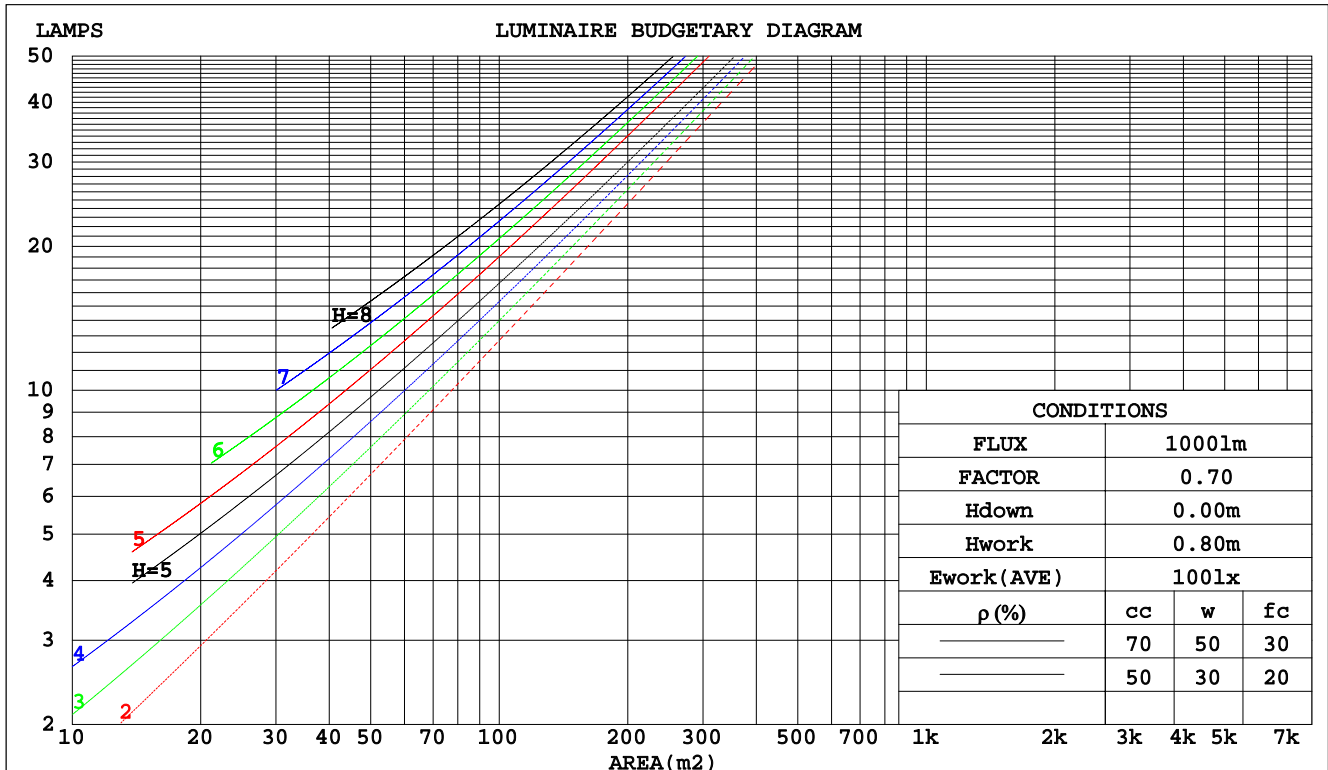
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.88	.84	.92	.87	.83	.89	.85	.81	.87	.83	.80	.85	.82	.79	.77
4.0	.86	.80	.76	.85	.79	.75	.83	.78	.74	.81	.77	.73	.79	.75	.72	.71
5.0	.80	.73	.69	.79	.73	.68	.77	.72	.68	.75	.71	.67	.74	.70	.67	.65
6.0	.74	.68	.63	.73	.67	.63	.72	.66	.62	.70	.65	.62	.69	.65	.61	.60
7.0	.69	.62	.58	.68	.62	.57	.67	.61	.57	.66	.61	.57	.64	.60	.56	.55
8.0	.64	.58	.53	.64	.57	.53	.62	.57	.53	.61	.56	.52	.60	.56	.52	.51
9.0	.60	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.57	.52	.48	.47
10.0	.56	.50	.45	.56	.49	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.44



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-90D-PC	DIM.: ϕ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.29M	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	.195	.111	.035	.188	.108	.034	.176	.101	.032	.164	.095	.030	.153	.089	.029	
2.0	.188	.103	.032	.183	.101	.031	.172	.096	.030	.162	.091	.028	.153	.086	.027	
3.0	.180	.096	.029	.175	.094	.028	.166	.090	.027	.157	.086	.026	.149	.083	.026	
4.0	.172	.089	.026	.168	.088	.026	.160	.085	.025	.152	.082	.025	.145	.079	.024	
5.0	.164	.084	.024	.160	.082	.024	.153	.080	.024	.147	.077	.023	.141	.075	.023	
6.0	.157	.079	.023	.153	.078	.022	.147	.075	.022	.141	.073	.022	.136	.072	.021	
7.0	.150	.074	.021	.147	.073	.021	.141	.071	.021	.136	.070	.020	.131	.068	.020	
8.0	.143	.070	.020	.141	.069	.020	.136	.068	.019	.131	.066	.019	.127	.065	.019	
9.0	.137	.066	.019	.135	.066	.018	.130	.064	.018	.126	.063	.018	.122	.062	.018	
10.0	.132	.063	.018	.129	.062	.017	.125	.061	.017	.121	.060	.017	.118	.059	.017	

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	.172	.157	.143	.147	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.136	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.112	.076	.050	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.123	.079	.047	.106	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.117	.072	.040	.101	.062	.035	.069	.044	.025	.040	.026	.015	.013	.008	.005	
8.0	.111	.066	.034	.096	.057	.030	.066	.040	.021	.039	.024	.013	.012	.008	.004	
9.0	.107	.061	.030	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-90D-PC					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi 0.29M$			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	11.8	12.9	12.0	13.0	13.2	10.9	12.0	11.1	12.1	12.3
3H	11.6	12.6	11.9	12.8	13.0	10.7	11.7	11.0	11.9	12.1
4H	11.6	12.5	11.8	12.7	12.9	10.7	11.6	11.0	11.8	12.0
6H	11.5	12.3	11.8	12.6	12.8	10.6	11.5	10.9	11.7	12.0
8H	11.4	12.3	11.8	12.5	12.8	10.6	11.4	10.9	11.7	11.9
12H	11.4	12.2	11.7	12.5	12.8	10.5	11.3	10.9	11.6	11.9
4H 2H	11.5	12.4	11.8	12.7	12.9	10.6	11.6	10.9	11.8	12.0
3H	11.4	12.2	11.7	12.4	12.7	10.5	11.3	10.8	11.6	11.8
4H	11.3	12.0	11.7	12.3	12.6	10.4	11.2	10.8	11.5	11.8
6H	11.3	11.9	11.6	12.2	12.6	10.4	11.0	10.8	11.3	11.7
8H	11.2	11.8	11.6	12.2	12.5	10.4	10.9	10.8	11.3	11.7
12H	11.2	11.7	11.6	12.1	12.5	10.3	10.9	10.7	11.2	11.6
8H 4H	11.2	11.8	11.6	12.1	12.5	10.3	10.9	10.7	11.3	11.6
6H	11.1	11.6	11.6	12.0	12.4	10.3	10.8	10.7	11.1	11.6
8H	11.1	11.5	11.6	12.0	12.4	10.3	10.7	10.7	11.1	11.5
12H	11.1	11.5	11.6	11.9	12.4	10.2	10.6	10.7	11.0	11.5
12H 4H	11.1	11.7	11.6	12.0	12.4	10.3	10.8	10.7	11.2	11.6
6H	11.1	11.5	11.5	11.9	12.4	10.2	10.7	10.7	11.1	11.5
8H	11.1	11.4	11.6	11.9	12.3	10.2	10.6	10.7	11.0	11.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / -10.0					+ 2.6 / - 9.5				
1.5H	+ 5.0 / - 9.8					+ 5.0 / - 9.2				
2.0H	+ 8.0 / - 5.0					+ 7.2 / - 3.7				

CIE Pub.117, 31328 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 12.0$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

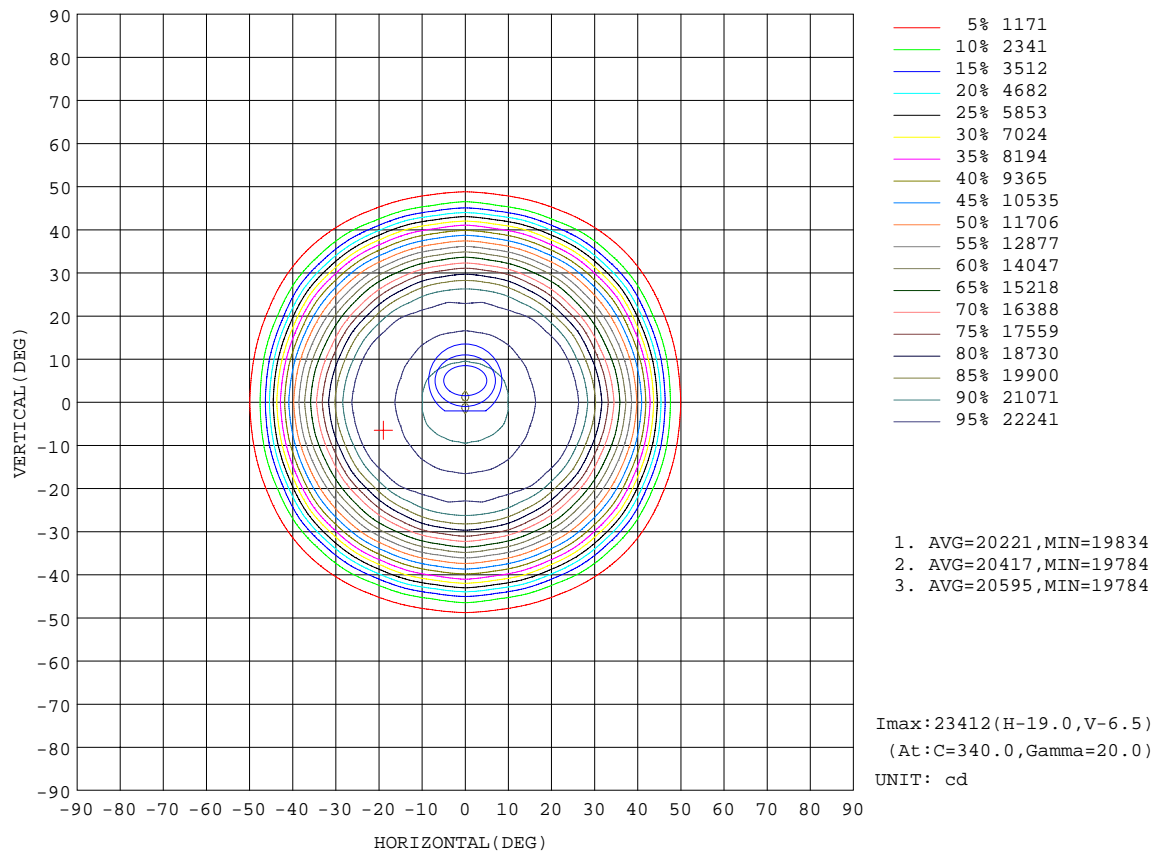
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	83	76	72	83	76	72	82	76	72	68
0.80	91	85	81	91	84	80	89	84	80	76
1.00	97	90	86	96	90	86	94	90	86	81
1.25	101	95	92	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

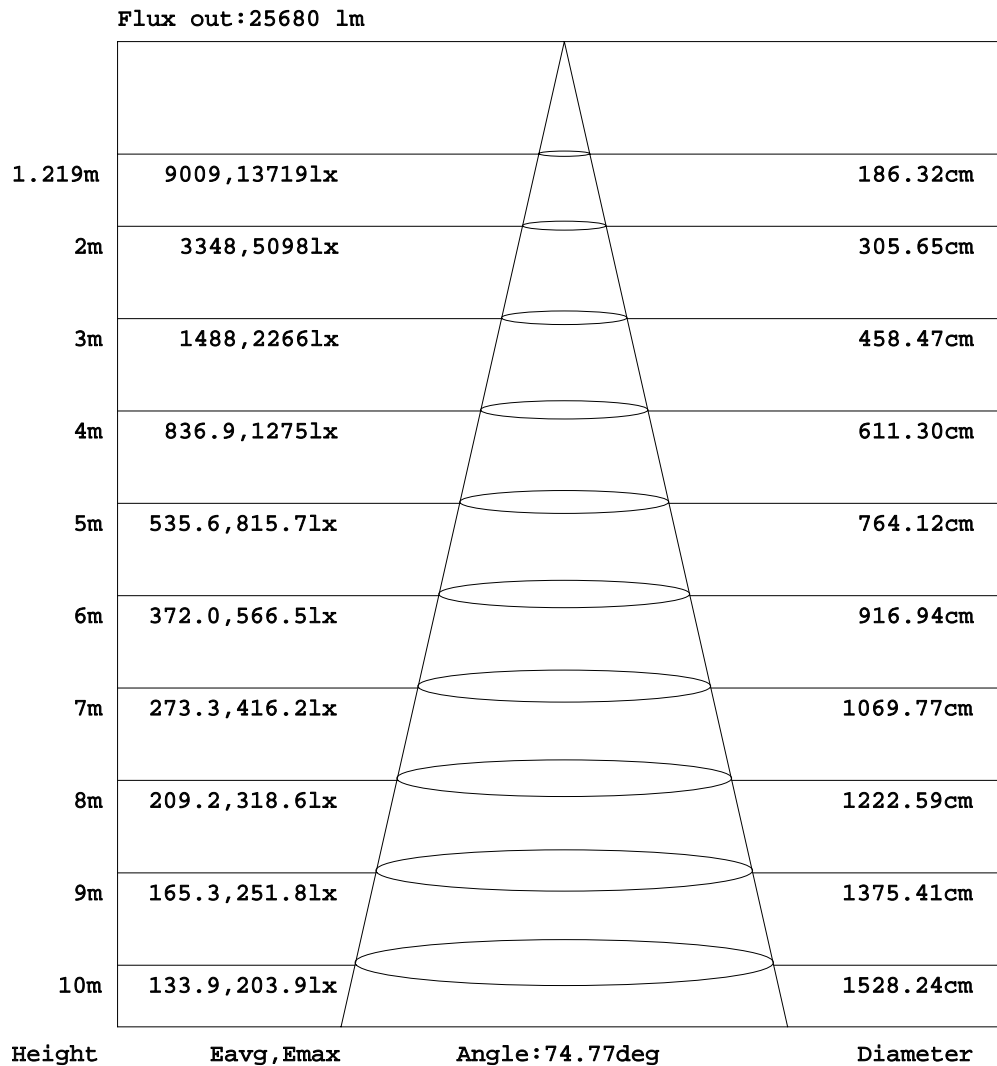


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



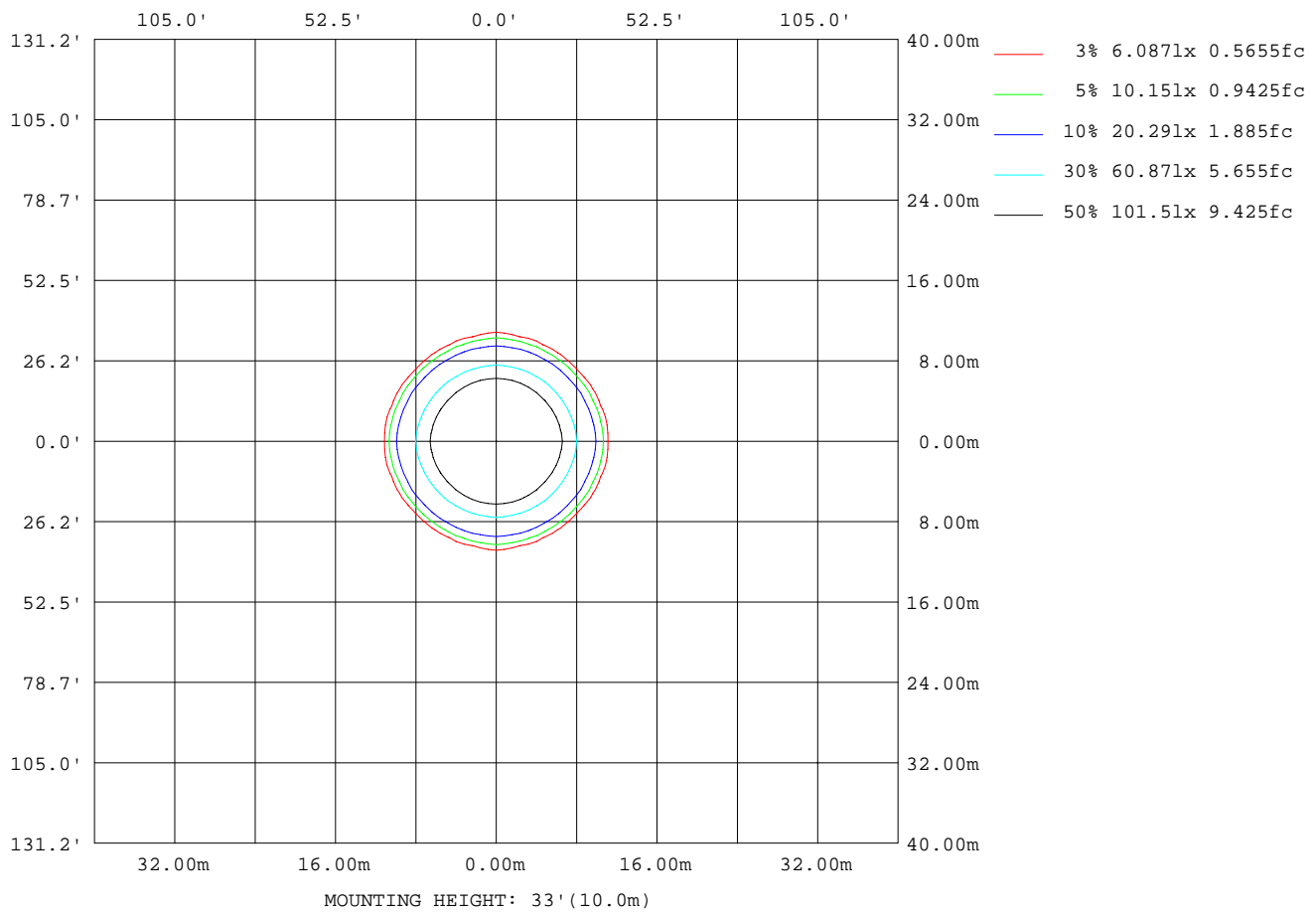
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\Phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

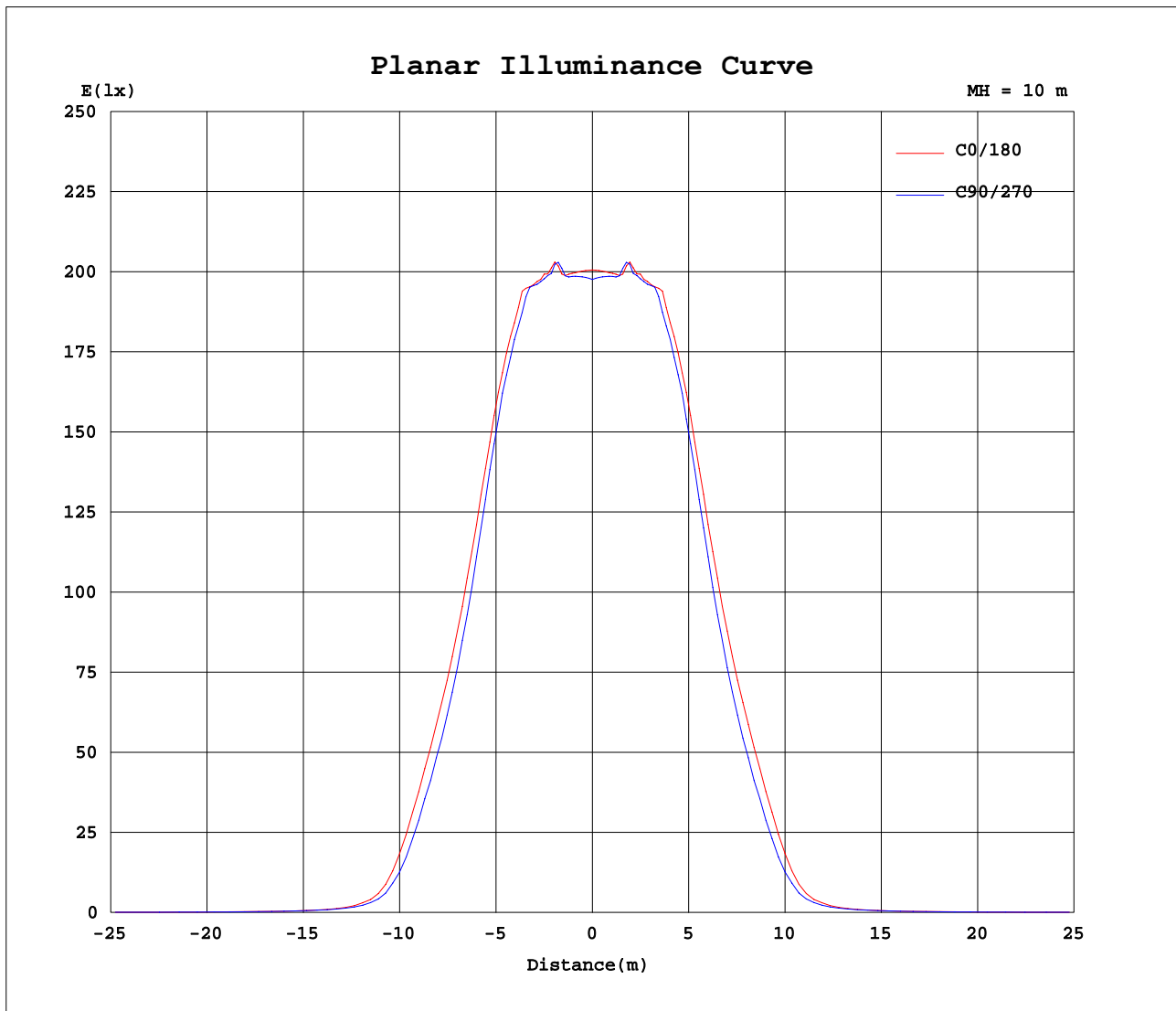
AvgL	cd/m2
L_0~180 (65) av	4660
L_0~180 (75) av	4896
L_0~180 (85) av	5597
L_90~270 (65) av	4663
L_90~270 (75) av	4626
L_90~270 (85) av	5154
L_45 (65) av	4623
L_45 (75) av	4610
L_45 (85) av	5242

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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: 2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.633m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT: $\times 10cd$

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989
5	2003	2005	2009	2012	2016	2018	2021	2021	2023	2022	2023	2021	2021	2018	2016	2012	2009	2005	2003
10	2095	2092	2094	2093	2106	2115	2128	2133	2146	2138	2146	2133	2128	2115	2106	2093	2094	2092	2095
15	2174	2189	2198	2203	2199	2197	2192	2200	2207	2200	2207	2200	2192	2197	2199	2203	2198	2189	2174
20	2317	2320	2334	2321	2302	2281	2277	2274	2281	2272	2281	2274	2277	2281	2302	2321	2334	2320	2317
25	2244	2241	2244	2236	2213	2214	2187	2192	2189	2191	2189	2192	2187	2214	2213	2236	2244	2241	2244
30	1993	1967	1924	1907	1870	1859	1845	1855	1842	1861	1842	1855	1845	1859	1870	1907	1924	1967	1993
35	1585	1557	1500	1469	1429	1425	1399	1394	1373	1400	1373	1394	1399	1425	1429	1469	1500	1557	1585
40	1137	1106	1049	1017	969	948	918	917	904	924	904	917	918	948	969	1017	1049	1106	1137
45	516	490	438	422	374	363	335	341	330	360	330	341	335	363	374	422	438	490	516
50	115	108	99.4	96.2	87.9	86.4	81.8	83.3	82.5	88.2	82.5	83.3	81.8	86.4	87.9	96.2	99.4	108	115
55	42.0	42.0	40.9	40.8	39.4	39.4	38.4	38.6	38.1	39.5	38.1	38.6	38.4	39.4	39.4	40.8	40.9	42.0	42.0
60	25.9	25.9	25.6	25.3	24.9	24.8	24.6	24.7	24.5	24.8	24.5	24.7	24.6	24.8	24.9	25.3	25.6	25.9	25.9
65	19.7	19.6	19.7	19.7	19.6	19.5	19.6	19.7	19.8	19.7	19.8	19.7	19.6	19.5	19.6	19.7	19.7	19.6	19.7
70	16.5	16.4	16.4	16.3	16.1	16.0	15.9	16.0	16.0	16.1	16.0	16.0	15.9	16.0	16.1	16.3	16.4	16.4	16.5
75	12.7	12.6	12.4	12.3	12.0	11.9	11.7	11.8	11.7	12.0	11.7	11.8	11.7	11.9	12.0	12.3	12.4	12.6	12.7
80	8.91	8.64	8.34	8.22	7.90	7.81	7.61	7.56	7.49	7.68	7.49	7.56	7.61	7.81	7.90	8.22	8.34	8.64	8.91
85	4.88	4.73	4.58	4.61	4.54	4.58	4.44	4.48	4.35	4.49	4.35	4.48	4.44	4.58	4.54	4.61	4.58	4.73	4.88
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: 2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.140A P:237.1W PF:0.9791 Freq:49.99Hz Lamp Flux:31327.6x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-240Woh-3030-90D-PC									DIM.: $\phi 0.4 \times 0.141M$						SERIAL No.:1		
MFR.: AOK									SUR.: $\phi 0.29M$						Shielding Angle:		

Table--2

UNIT: $\times 10cd$

γ (DEG) \ C (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989		
5	2005	2009	2012	2016	2018	2021	2021	2023	2022	2023	2021	2021	2018	2016	2012	2009	2005		
10	2092	2094	2093	2106	2115	2128	2133	2146	2138	2146	2133	2128	2115	2106	2093	2094	2092		
15	2189	2198	2203	2199	2197	2192	2200	2207	2200	2207	2200	2192	2197	2199	2203	2198	2189		
20	2320	2334	2321	2302	2281	2277	2274	2281	2272	2281	2274	2277	2281	2302	2321	2334	2320		
25	2241	2244	2236	2213	2214	2187	2192	2189	2191	2189	2192	2187	2214	2213	2236	2244	2241		
30	1967	1924	1907	1870	1859	1845	1855	1842	1861	1842	1855	1845	1859	1870	1907	1924	1967		
35	1557	1500	1469	1429	1425	1399	1394	1373	1400	1373	1394	1399	1425	1429	1469	1500	1557		
40	1106	1049	1017	969	948	918	917	904	924	904	917	918	948	969	1017	1049	1106		
45	490	438	422	374	363	335	341	330	360	330	341	335	363	374	422	438	490		
50	108	99.4	96.2	87.9	86.4	81.8	83.3	82.5	88.2	82.5	83.3	81.8	86.4	87.9	96.2	99.4	108		
55	42.0	40.9	40.8	39.4	39.4	38.4	38.6	38.1	39.5	38.1	38.6	38.4	39.4	39.4	40.8	40.9	42.0		
60	25.9	25.6	25.3	24.9	24.8	24.6	24.7	24.5	24.8	24.5	24.7	24.6	24.8	24.9	25.3	25.6	25.9		
65	19.6	19.7	19.7	19.6	19.5	19.6	19.7	19.8	19.7	19.8	19.7	19.6	19.5	19.6	19.7	19.7	19.6		
70	16.4	16.4	16.3	16.1	16.0	15.9	16.0	16.0	16.1	16.0	16.0	15.9	16.0	16.1	16.3	16.4	16.4		
75	12.6	12.4	12.3	12.0	11.9	11.7	11.8	11.7	12.0	11.7	11.8	11.7	11.9	12.0	12.3	12.4	12.6		
80	8.64	8.34	8.22	7.90	7.81	7.61	7.56	7.49	7.68	7.49	7.56	7.61	7.81	7.90	8.22	8.34	8.64		
85	4.73	4.58	4.61	4.54	4.58	4.44	4.48	4.35	4.49	4.35	4.48	4.44	4.58	4.54	4.61	4.58	4.73		
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:2017-12-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks: