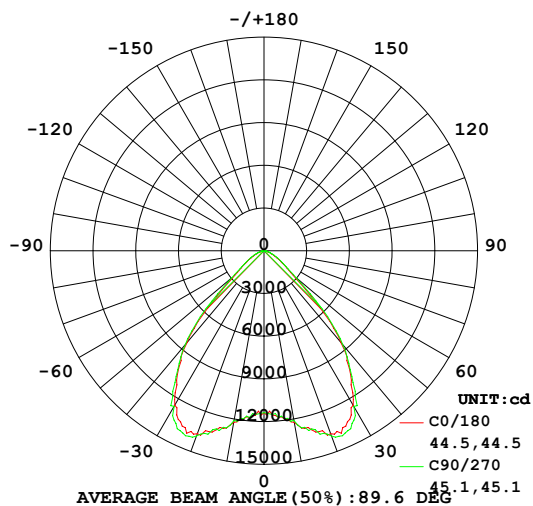


LUMINAIRE PHOTOMETRIC TEST REPORT

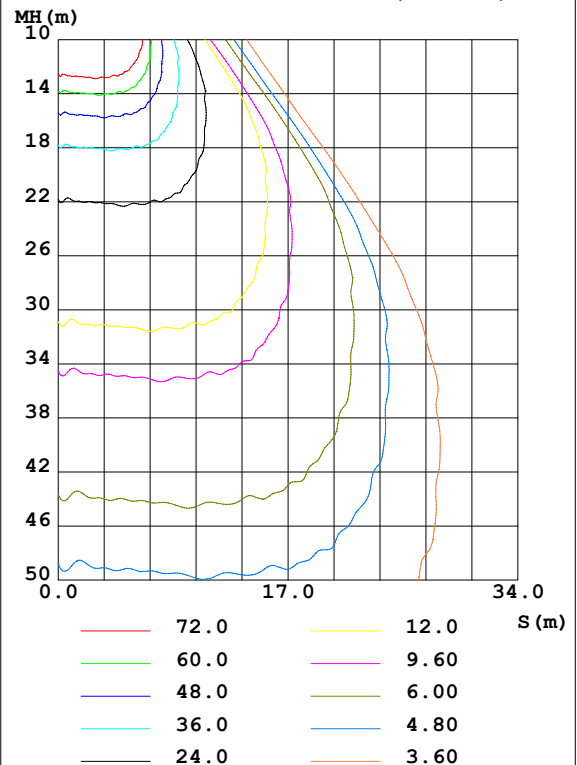
Test:U:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm					
NAME: AOK oH		TYPE:LED		WEIGHT:6.0KG	
SPEC.:AOK-200Woh-3030-90D-PC-ALL		DIM.: $\phi 0.4 \times 0.141M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.29M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 125.65 lm/W
MODEL	3030	I _{max} (cd)	14118	S/MH (C0/180)	1.30	
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.30	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	24903	η UP, DN (C0-180)	0.0, 50.0	
NOMINAL FLUX (lm)	24903.3	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.30	

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: 2017-12-29

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	1224	1224	1209	1224	1224	1224	1209	1224	0- 10	1132	1132	4.55,4.55
20	1368	1374	1383	1374	1368	1374	1383	1374	10- 20	3725	4857	19.5,19.5
30	1254	1268	1262	1268	1254	1268	1262	1268	20- 30	6254	11110	44.6,44.6
40	842.2	857.7	858.7	857.7	842.2	857.7	858.7	857.7	30- 40	6680	17791	71.4,71.4
50	269.2	279.8	295.6	279.8	269.2	279.8	295.6	279.8	40- 50	4279	22070	88.6,88.6
60	115.6	118.4	123.2	118.4	115.6	118.4	123.2	118.4	50- 60	1621	23690	95.1,95.1
70	44.66	48.52	53.15	48.52	44.66	48.52	53.15	48.52	60- 70	794.0	24484	98.3,98.3
80	14.45	15.84	17.76	15.84	14.45	15.84	17.76	15.84	70- 80	318.7	24803	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	100.3	24903	100,100
100	0	0	0	0	0	0	0	0	90-100	0	24903	100,100
110	0	0	0	0	0	0	0	0	100-110	0	24903	100,100
120	0	0	0	0	0	0	0	0	110-120	0	24903	100,100
130	0	0	0	0	0	0	0	0	120-130	0	24903	100,100
140	0	0	0	0	0	0	0	0	130-140	0	24903	100,100
150	0	0	0	0	0	0	0	0	140-150	0	24903	100,100
160	0	0	0	0	0	0	0	0	150-160	0	24903	100,100
170	0	0	0	0	0	0	0	0	160-170	0	24903	100,100
180	0	0	0	0	0	0	0	0	170-180	0	24903	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 20438 lm

%lum = 82.1%

%lamp = 82.1%

Conical surface Flux(120deg): 23690 lm

%lum = 95.1%

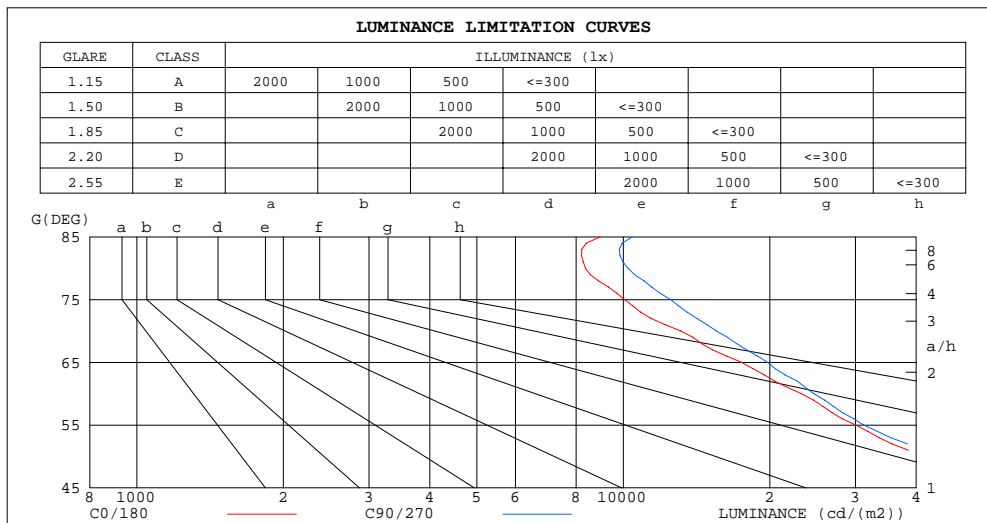
%lamp = 95.1%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC-ALL	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	8966	10440
80	8357	10227
75	10061	12504
70	13116	15537
65	17490	19796
60	23217	24641
55	30057	31194
50	42072	45976
45	75206	81975

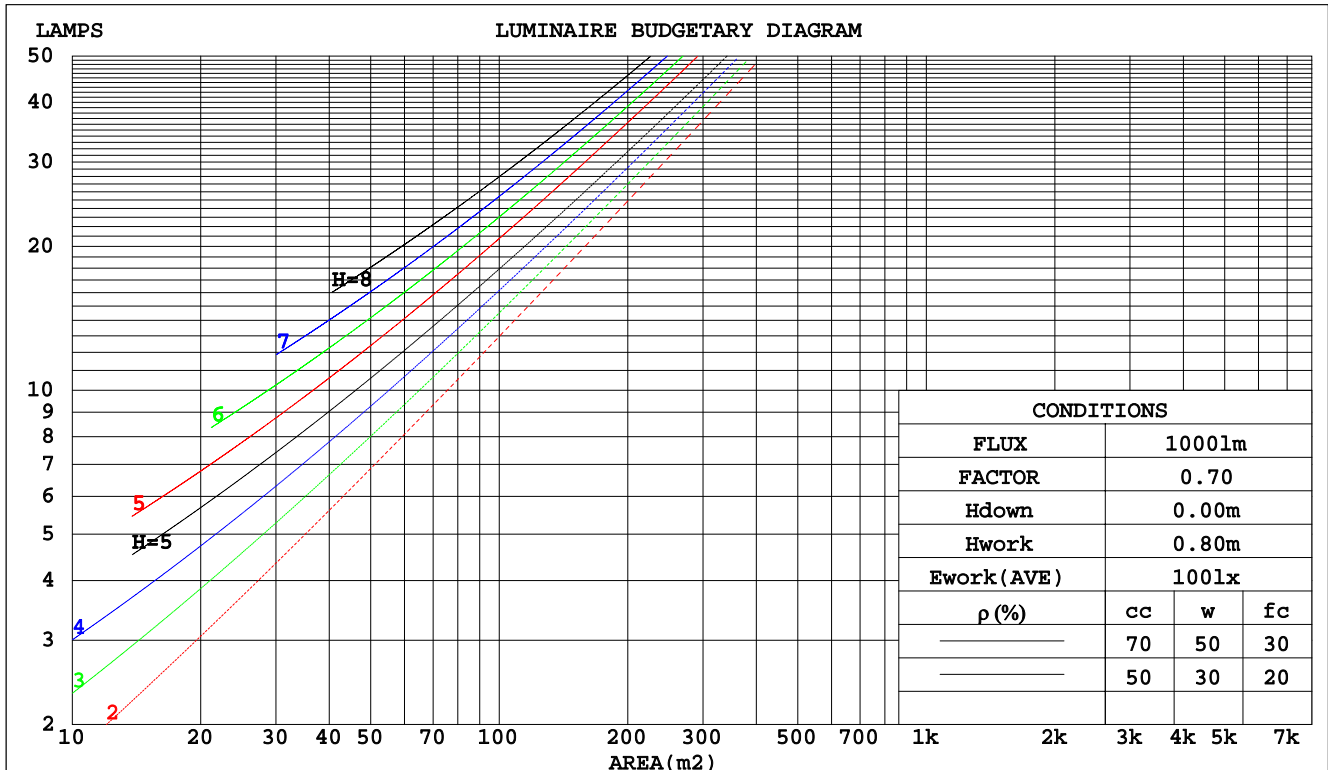
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC-ALL	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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.84	.82	.80
3.0	.89	.83	.78	.88	.82	.77	.85	.80	.76	.82	.78	.75	.80	.76	.73	.72
4.0	.81	.74	.69	.80	.73	.68	.78	.72	.68	.76	.71	.67	.74	.69	.66	.64
5.0	.74	.67	.61	.73	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.59	.58
6.0	.68	.61	.55	.67	.60	.55	.65	.59	.55	.64	.58	.54	.62	.58	.54	.52
7.0	.63	.55	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.58	.53	.49	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.48	.45	.43
9.0	.53	.46	.41	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
10.0	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.42	.38	.46	.41	.37	.36



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC-ALL	DIM.: ϕ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

pcc	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.225	.128	.040	.218	.124	.039	.205	.118	.038	.193	.111	.036	.182	.106	.034	
2.0	.217	.119	.037	.211	.116	.036	.200	.111	.035	.190	.107	.033	.181	.102	.032	
3.0	.207	.110	.033	.202	.108	.033	.192	.104	.032	.184	.101	.031	.175	.097	.030	
4.0	.196	.102	.030	.192	.100	.030	.184	.097	.029	.176	.094	.028	.169	.092	.028	
5.0	.186	.095	.027	.182	.094	.027	.175	.091	.027	.168	.089	.026	.161	.086	.026	
6.0	.177	.088	.025	.173	.087	.025	.166	.085	.025	.160	.083	.024	.154	.081	.024	
7.0	.167	.083	.023	.164	.082	.023	.158	.080	.023	.153	.078	.023	.148	.077	.023	
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.146	.074	.021	.141	.073	.021	
9.0	.151	.073	.020	.149	.072	.020	.144	.071	.020	.139	.070	.020	.135	.069	.020	
10.0	.144	.069	.019	.142	.068	.019	.137	.067	.019	.133	.066	.019	.130	.065	.019	

pcc	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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.083	.131	.098	.072	.090	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.123	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.081	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.130	.080	.044	.111	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.102	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.113	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.108	.058	.025	.093	.050	.021	.065	.035	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-90D-PC-ALL					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	13.4	14.6	13.6	14.8	15.0	13.4	14.7	13.7	14.8	15.0
3H	13.4	14.6	13.7	14.8	15.0	13.6	14.7	13.8	14.9	15.1
4H	13.4	14.5	13.7	14.7	15.0	13.6	14.6	13.9	14.9	15.1
6H	13.4	14.4	13.7	14.7	14.9	13.6	14.6	13.9	14.8	15.1
8H	13.4	14.3	13.7	14.6	14.9	13.6	14.5	13.9	14.8	15.1
12H	13.4	14.3	13.7	14.5	14.8	13.5	14.5	13.9	14.7	15.0
4H 2H	13.3	14.4	13.6	14.6	14.8	13.4	14.4	13.7	14.7	14.9
3H	13.5	14.4	13.8	14.7	15.0	13.6	14.5	13.9	14.8	15.1
4H	13.5	14.3	13.9	14.6	15.0	13.7	14.5	14.0	14.8	15.1
6H	13.5	14.2	13.9	14.6	14.9	13.7	14.4	14.1	14.8	15.1
8H	13.5	14.2	13.9	14.5	14.9	13.7	14.4	14.1	14.7	15.1
12H	13.5	14.1	13.9	14.5	14.9	13.7	14.3	14.1	14.7	15.1
8H 4H	13.5	14.1	13.9	14.5	14.9	13.6	14.3	14.0	14.6	15.0
6H	13.5	14.1	13.9	14.5	14.9	13.7	14.2	14.1	14.6	15.1
8H	13.5	14.0	14.0	14.4	14.9	13.7	14.2	14.2	14.6	15.1
12H	13.6	14.0	14.0	14.4	14.9	13.8	14.2	14.2	14.6	15.1
12H 4H	13.4	14.0	13.8	14.4	14.8	13.6	14.2	14.0	14.6	15.0
6H	13.5	14.0	13.9	14.4	14.8	13.7	14.1	14.1	14.6	15.0
8H	13.5	13.9	14.0	14.4	14.9	13.7	14.1	14.2	14.6	15.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 2.9					+ 1.7 / - 2.7				
1.5H	+ 2.3 / - 2.5					+ 2.1 / - 2.6				
2.0H	+ 3.6 / - 2.1					+ 3.9 / - 2.3				

CIE Pub.117, 24903 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 11.2$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

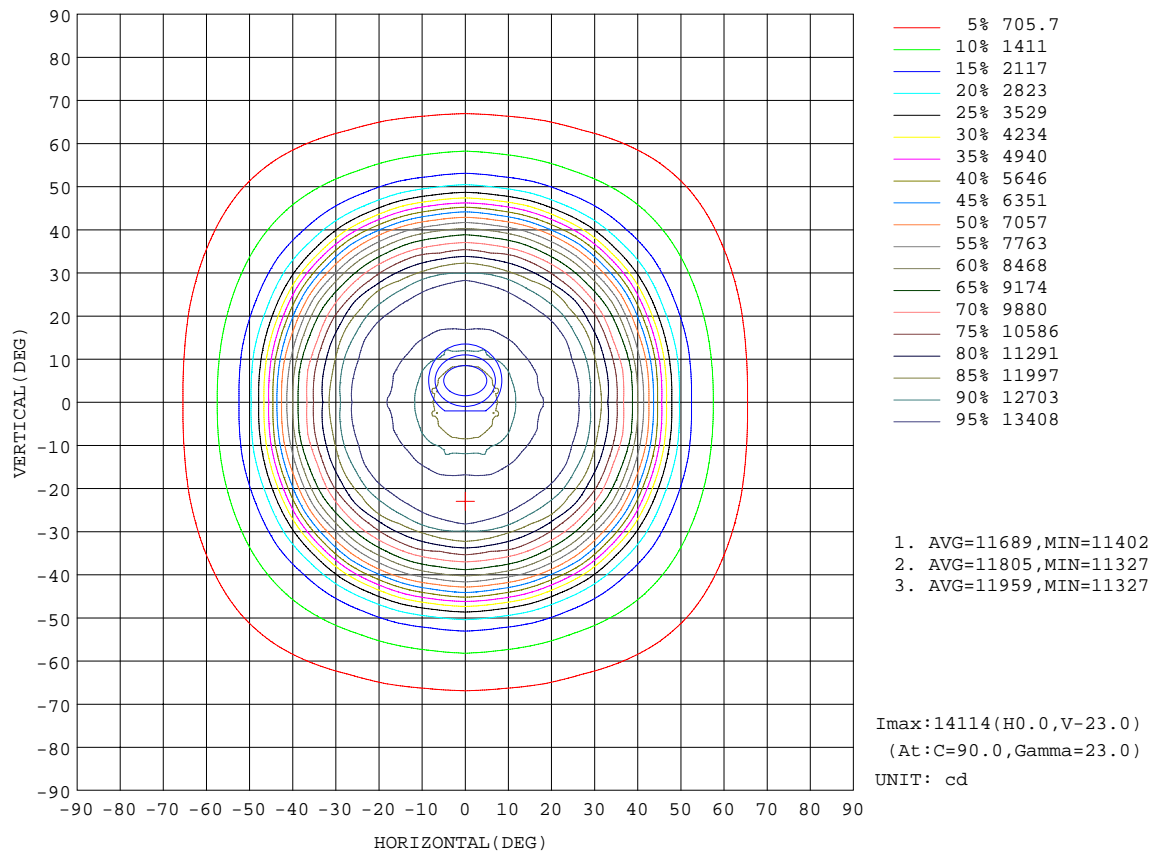
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	65	59	73	65	59	72	64	59	54
0.80	83	74	69	82	74	69	81	73	69	63
1.00	90	82	77	89	81	77	87	82	76	71
1.25	95	88	83	94	88	83	92	86	82	77
1.50	99	93	88	98	92	87	95	90	86	81
2.00	104	98	94	102	97	93	99	95	91	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	103	100	97	90
4.00	111	107	104	109	106	103	105	102	100	92
5.00	113	109	107	110	107	105	106	104	102	94
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:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

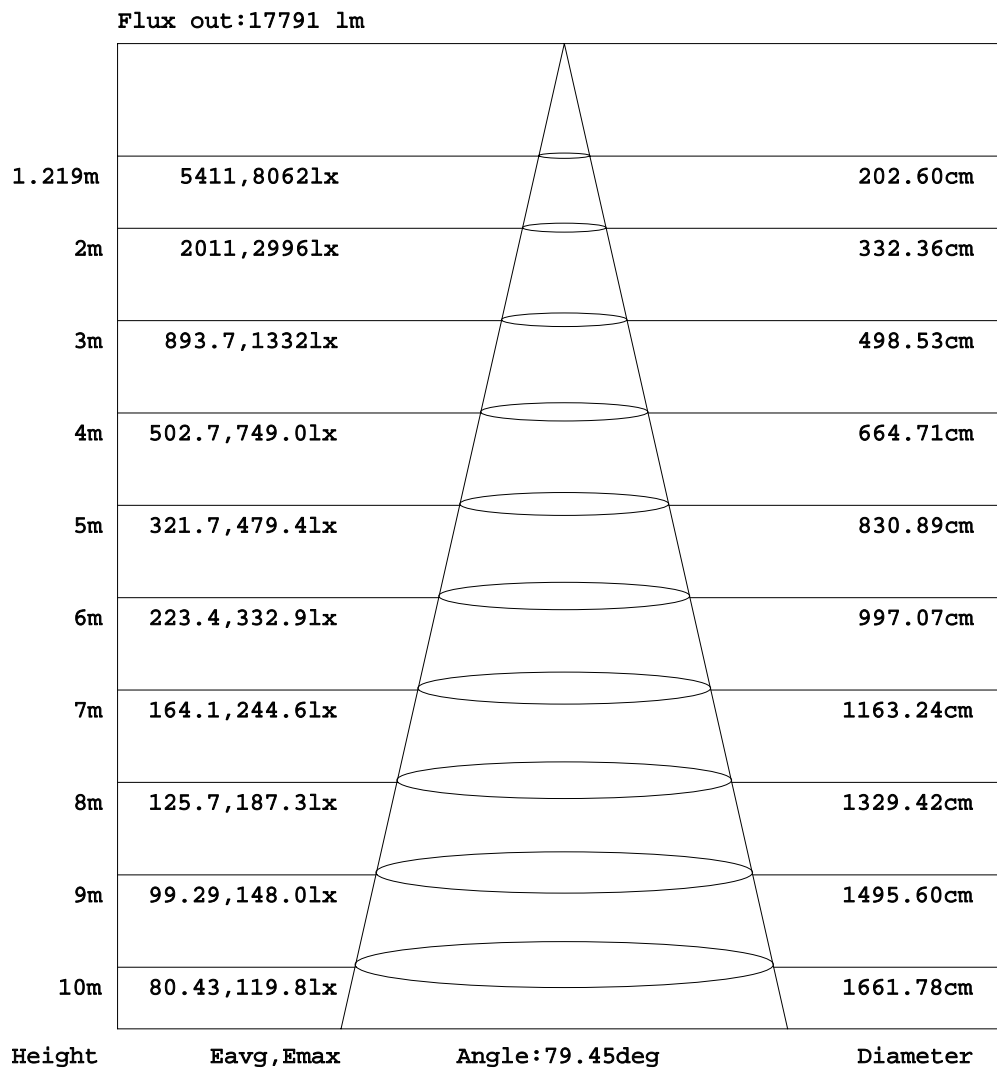


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



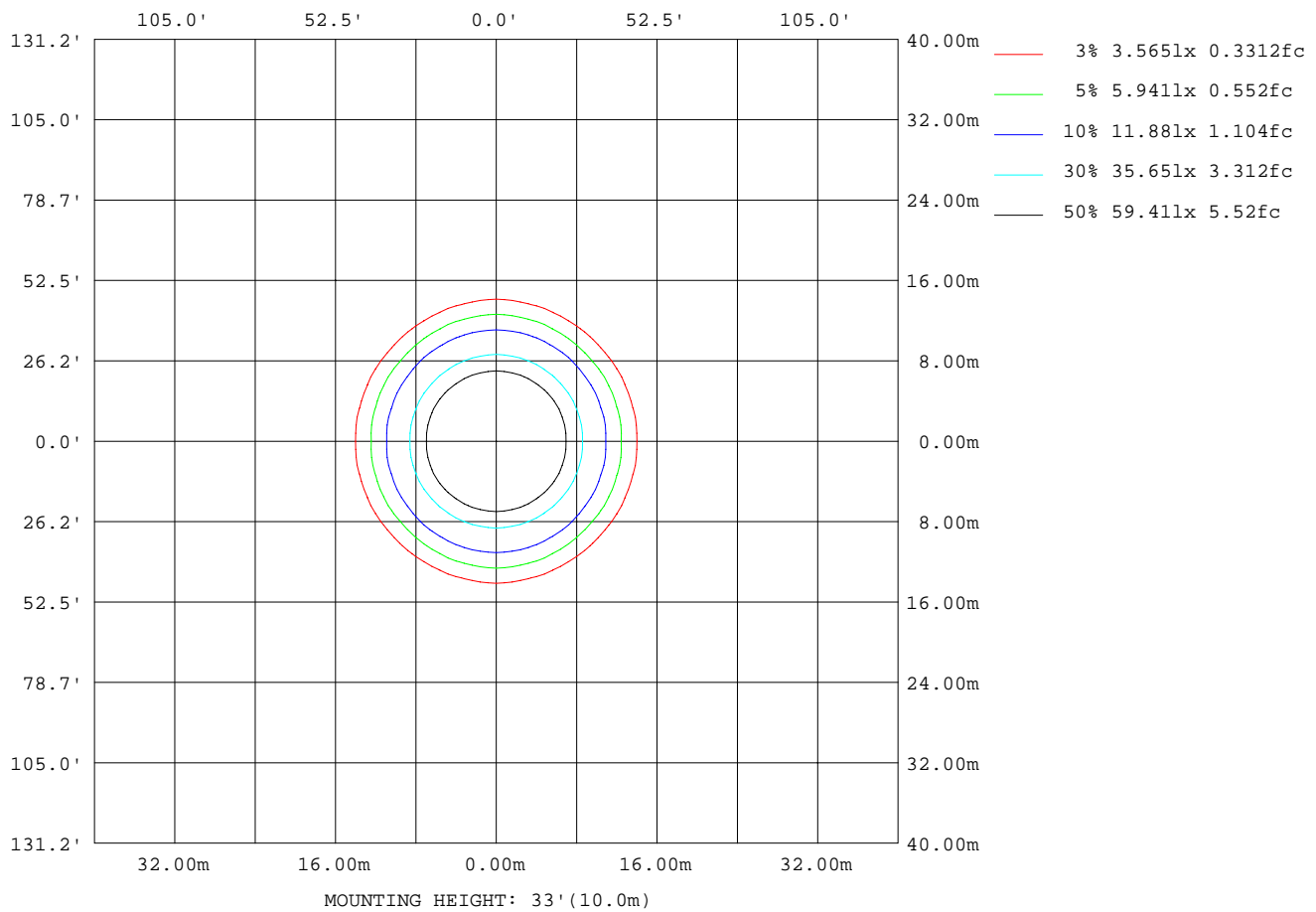
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D-PC-ALL	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:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

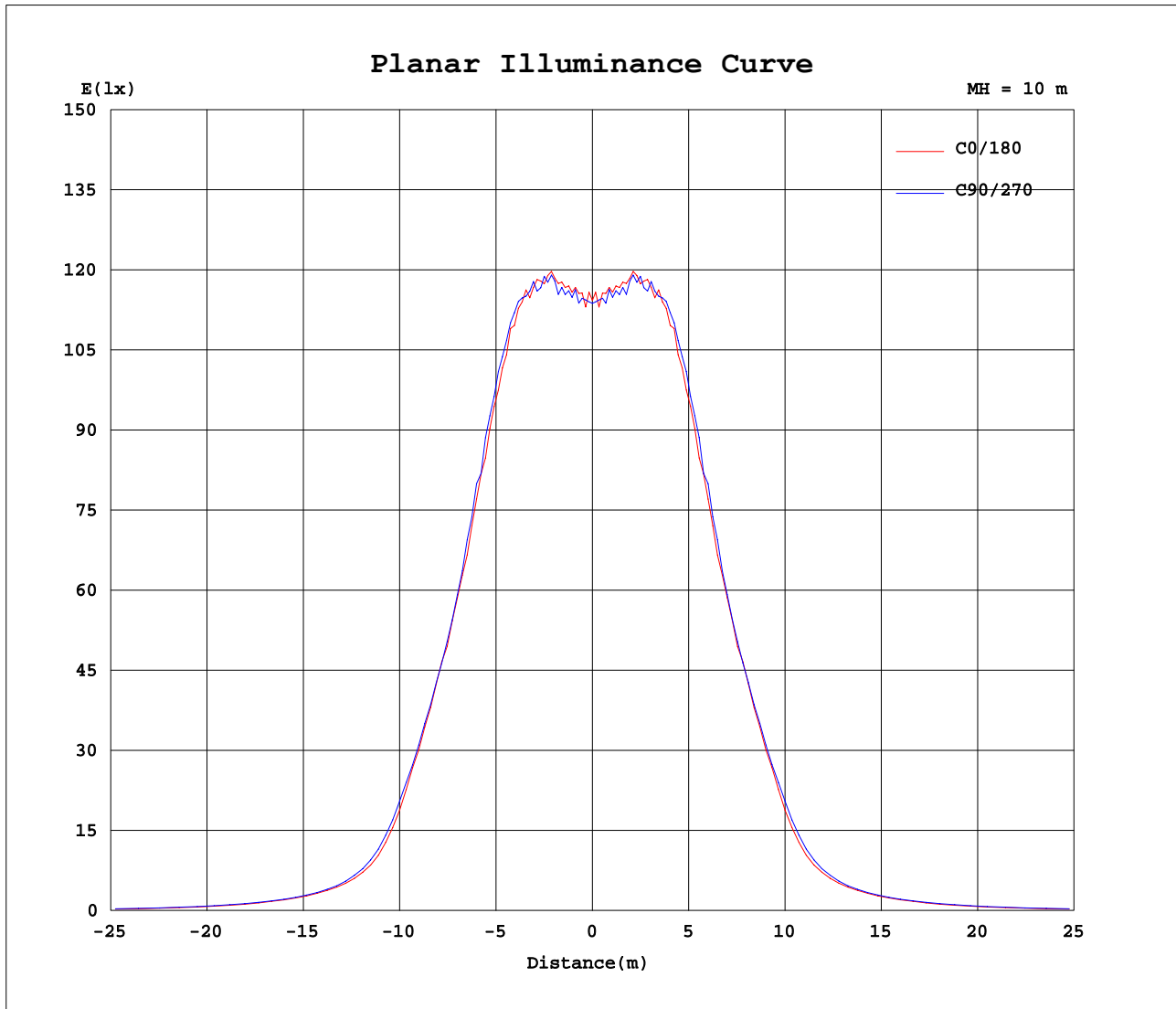
AvgL	cd/m2
L_0~180 (65) av	17411
L_0~180 (75) av	10015
L_0~180 (85) av	8925
L_90~270 (65) av	19802
L_90~270 (75) av	12508
L_90~270 (85) av	10442
L_45 (65) av	18767
L_45 (75) av	10936
L_45 (85) av	9611

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-29

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: 2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC-ALL	DIM.: ϕ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

Table--1

UNIT: $\times 10\text{cd}$

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138
5	1175	1172	1178	1179	1158	1161	1162	1160	1173	1177	1173	1160	1162	1161	1158	1179	1178	1172	1175
10	1224	1227	1221	1228	1230	1218	1227	1216	1206	1209	1206	1216	1227	1218	1230	1228	1221	1227	1224
15	1302	1317	1310	1310	1323	1313	1299	1306	1315	1295	1315	1306	1299	1313	1323	1310	1310	1317	1302
20	1368	1374	1355	1367	1373	1375	1364	1375	1393	1383	1393	1375	1364	1375	1373	1367	1355	1374	1368
25	1359	1377	1359	1367	1367	1374	1368	1375	1377	1394	1377	1375	1368	1374	1367	1367	1359	1377	1359
30	1254	1254	1254	1260	1272	1264	1263	1272	1277	1262	1277	1272	1263	1264	1272	1260	1254	1254	1254
35	1061	1086	1077	1088	1078	1067	1089	1092	1057	1077	1057	1092	1089	1067	1078	1088	1077	1086	1061
40	842	856	851	863	854	861	851	857	854	859	854	857	851	861	854	863	851	856	842
45	529	560	554	565	557	572	563	567	563	580	563	567	563	572	557	565	554	560	529
50	269	283	276	284	277	283	282	289	288	296	288	289	282	283	277	284	276	283	269
55	172	173	172	175	170	172	173	175	176	179	176	175	173	172	170	175	172	173	172
60	116	118	116	119	118	119	118	119	122	123	122	119	118	119	118	119	116	118	116
65	73.6	76.1	76.8	80.0	79.0	79.6	78.3	79.9	81.7	83.7	81.7	79.9	78.3	79.6	79.0	80.0	76.8	76.1	73.6
70	44.7	46.6	47.6	49.3	48.5	48.6	49.5	52.0	52.1	53.2	52.1	52.0	49.5	48.6	48.5	49.3	47.6	46.6	44.7
75	25.9	27.0	28.0	28.6	28.6	28.2	29.3	31.0	31.1	32.4	31.1	31.0	29.3	28.2	28.6	28.6	28.0	27.0	25.9
80	14.4	14.8	15.4	16.1	15.6	16.1	16.6	17.4	17.4	17.8	17.4	17.4	16.6	16.1	15.6	16.1	15.4	14.8	14.4
85	7.78	8.07	8.30	8.57	8.23	8.60	8.85	9.03	8.94	9.10	8.94	9.03	8.85	8.60	8.23	8.57	8.30	8.07	7.78
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:2017-12-29

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:219.9V I:0.9679A P:198.2W PF:0.9739 Freq:49.99Hz Lamp Flux:24903.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--2

UNIT: $\times 10cd$

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138		
5	1172	1178	1179	1158	1161	1162	1160	1173	1177	1173	1160	1162	1161	1158	1179	1178	1172		
10	1227	1221	1228	1230	1218	1227	1216	1206	1209	1206	1216	1227	1218	1230	1228	1221	1227		
15	1317	1310	1310	1323	1313	1299	1306	1315	1295	1315	1306	1299	1313	1323	1310	1310	1317		
20	1374	1355	1367	1373	1375	1364	1375	1393	1383	1393	1375	1364	1375	1373	1367	1355	1374		
25	1377	1359	1367	1367	1374	1368	1375	1377	1394	1377	1375	1368	1374	1367	1367	1359	1377		
30	1254	1254	1260	1272	1264	1263	1272	1277	1262	1277	1272	1263	1264	1272	1260	1254	1254		
35	1086	1077	1088	1078	1067	1089	1092	1057	1077	1057	1092	1089	1067	1078	1088	1077	1086		
40	856	851	863	854	861	851	857	854	859	854	857	851	861	854	863	851	856		
45	560	554	565	557	572	563	567	563	580	563	567	563	572	557	565	554	560		
50	283	276	284	277	283	282	289	288	296	288	289	282	283	277	284	276	283		
55	173	172	175	170	172	173	175	176	179	176	175	173	172	170	175	172	173		
60	118	116	119	118	119	118	119	122	123	122	119	118	119	118	119	116	118		
65	76.1	76.8	80.0	79.0	79.6	78.3	79.9	81.7	83.7	81.7	79.9	78.3	79.6	79.0	80.0	76.8	76.1		
70	46.6	47.6	49.3	48.5	48.6	49.5	52.0	52.1	53.2	52.1	52.0	49.5	48.6	48.5	49.3	47.6	46.6		
75	27.0	28.0	28.6	28.6	28.2	29.3	31.0	31.1	32.4	31.1	31.0	29.3	28.2	28.6	28.6	28.0	27.0		
80	14.8	15.4	16.1	15.6	16.1	16.6	17.4	17.4	17.8	17.4	17.4	16.6	16.1	15.6	16.1	15.4	14.8		
85	8.07	8.30	8.57	8.23	8.60	8.85	9.03	8.94	9.10	8.94	9.03	8.85	8.60	8.23	8.57	8.30	8.07		
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:2017-12-29

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: