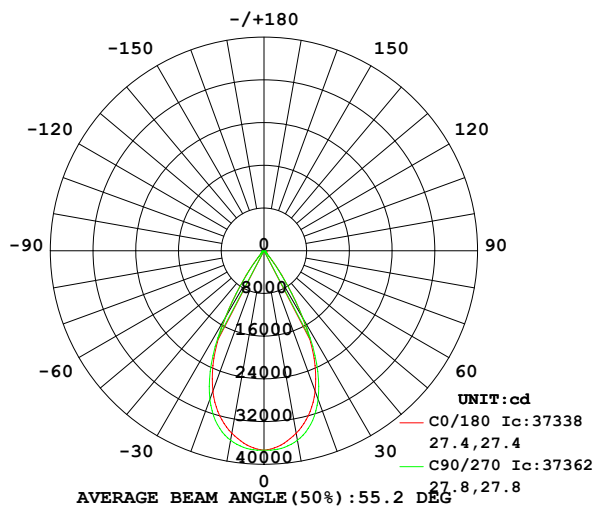


LUMINAIRE PHOTOMETRIC TEST REPORT

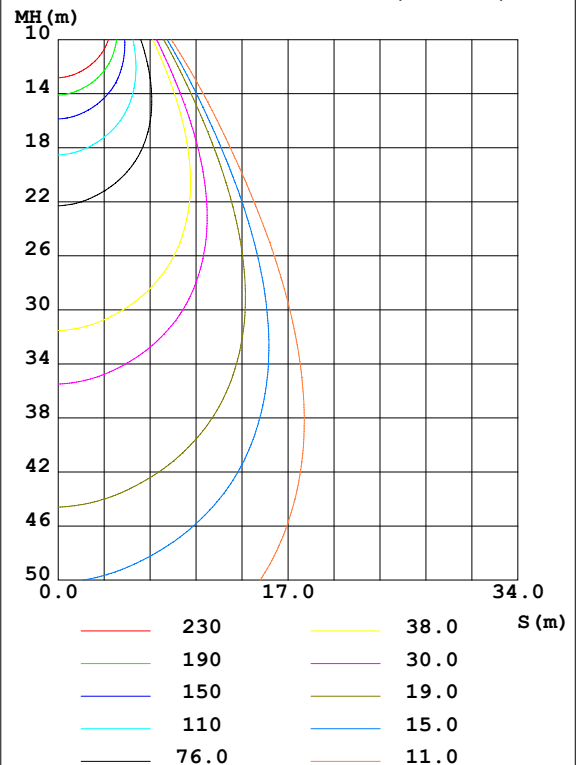
Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: ϕ 0.29M

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.94 lm/W			
MODEL	3030	I _{max} (cd)	37362	S/MH (C0/180)	0.82
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	0.82
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	29183	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	29182.8	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.85

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:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_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	3471	3534	3604	3534	3471	3534	3604	3534	0- 10	3468	3468	11.9,11.9
20	2801	2910	2963	2910	2801	2910	2963	2910	10- 20	9161	12630	43.3,43.3
30	1450	1470	1473	1470	1450	1470	1473	1470	20- 30	10234	22864	78.3,78.3
40	237.2	229.3	221.4	229.3	237.2	229.3	221.4	229.3	30- 40	4441	27304	93.6,93.6
50	68.75	62.94	62.72	62.94	68.75	62.94	62.72	62.94	40- 50	796.2	28101	96.3,96.3
60	47.71	45.91	45.10	45.91	47.71	45.91	45.10	45.91	50- 60	497.9	28598	98,98
70	28.33	27.45	27.20	27.45	28.33	27.45	27.20	27.45	60- 70	358.4	28957	99.2,99.2
80	10.34	9.305	8.971	9.305	10.34	9.305	8.971	9.305	70- 80	198.8	29156	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	27.27	29183	100,100
100	0	0	0	0	0	0	0	0	90-100	0	29183	100,100
110	0	0	0	0	0	0	0	0	100-110	0	29183	100,100
120	0	0	0	0	0	0	0	0	110-120	0	29183	100,100
130	0	0	0	0	0	0	0	0	120-130	0	29183	100,100
140	0	0	0	0	0	0	0	0	130-140	0	29183	100,100
150	0	0	0	0	0	0	0	0	140-150	0	29183	100,100
160	0	0	0	0	0	0	0	0	150-160	0	29183	100,100
170	0	0	0	0	0	0	0	0	160-170	0	29183	100,100
180	0	0	0	0	0	0	0	0	170-180	0	29183	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 27808 lm

%lum = 95.3%

%lamp = 95.3%

Conical surface Flux(120deg): 28598 lm

%lum = 98.0%

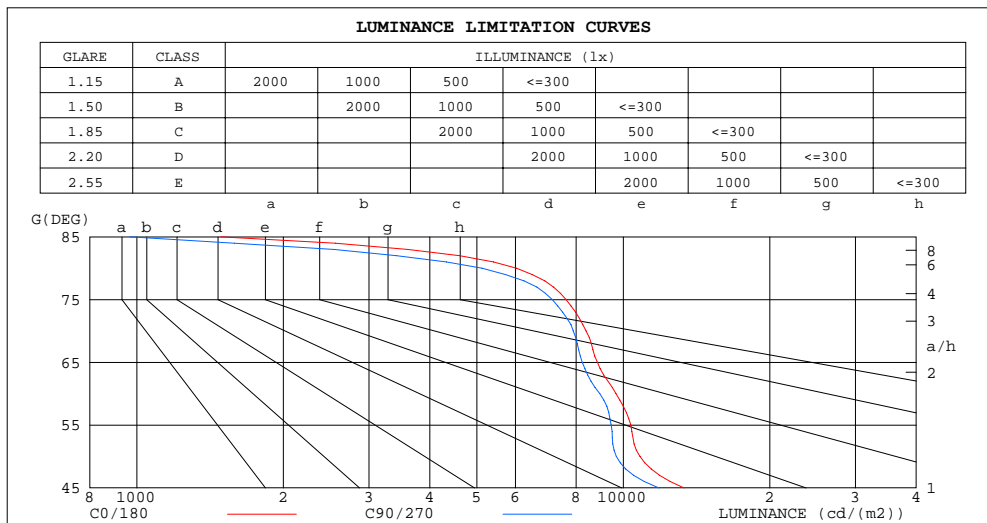
%lamp = 98.0%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 141\text{M}$	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: $\phi 0.29\text{M}$



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1487	968
80	6028	5123
75	7625	7146
70	8382	7887
65	8847	8234
60	9656	8944
55	10360	9441
50	10822	9676
45	13329	11831

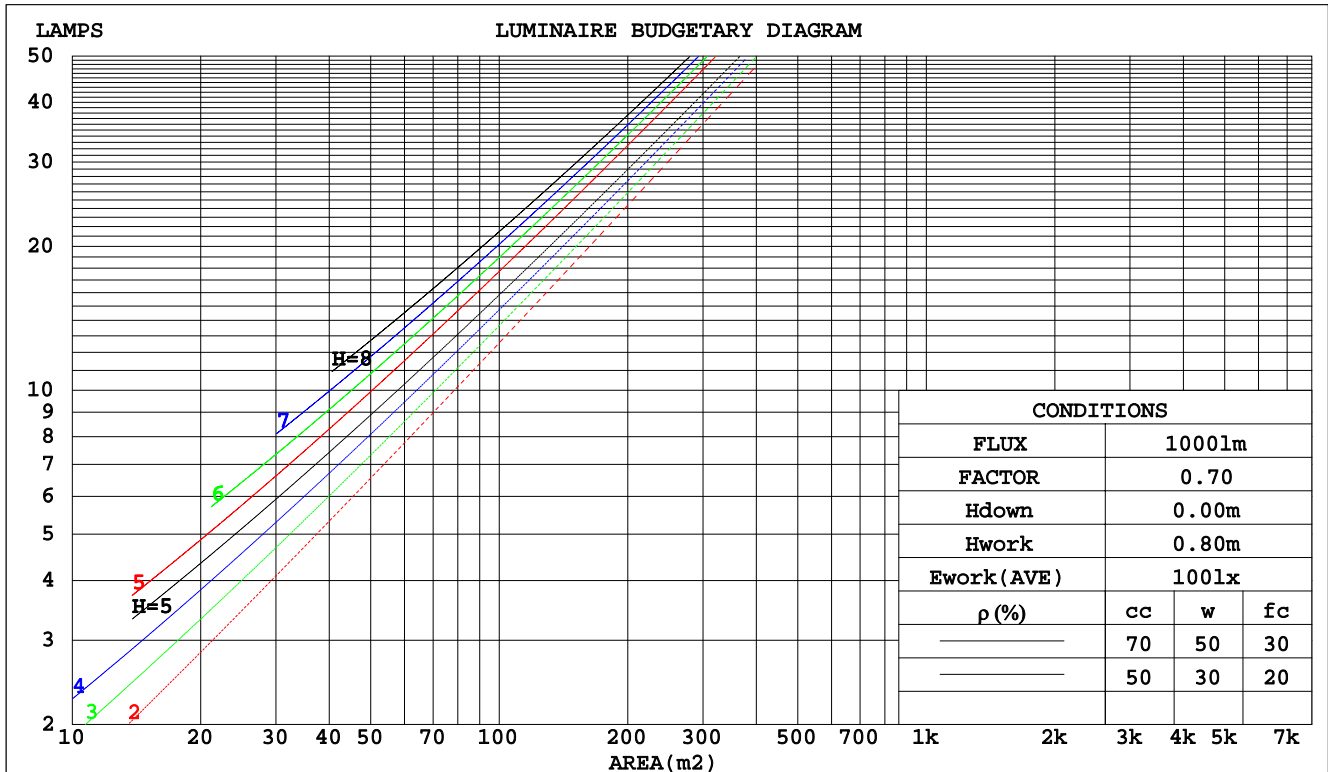
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: ϕ 0.29M

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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.84	.88	.85	.83	.82
4.0	.91	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.83	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.70	.77	.72	.69	.75	.72	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.65	.73	.68	.65	.72	.68	.65	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.60
9.0	.68	.62	.59	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.55	.64	.59	.55	.63	.59	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: ϕ 0.29M

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	.178	.101	.032	.171	.097	.031	.158	.091	.029	.147	.085	.027	.136	.079	.025	
2.0	.169	.093	.028	.163	.090	.028	.153	.085	.026	.143	.080	.025	.134	.076	.024	
3.0	.160	.085	.025	.155	.083	.025	.146	.079	.024	.138	.075	.023	.130	.072	.022	
4.0	.152	.079	.023	.147	.077	.023	.140	.074	.022	.132	.071	.021	.126	.068	.021	
5.0	.144	.073	.021	.140	.072	.021	.134	.070	.020	.127	.067	.020	.121	.065	.019	
6.0	.137	.069	.020	.134	.068	.019	.128	.066	.019	.122	.064	.019	.117	.062	.018	
7.0	.131	.065	.018	.128	.064	.018	.123	.062	.018	.118	.060	.018	.113	.059	.017	
8.0	.125	.061	.017	.122	.060	.017	.118	.059	.017	.113	.057	.017	.109	.056	.016	
9.0	.120	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.106	.054	.016	
10.0	.115	.055	.015	.113	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.015	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.060	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D					DIM.: ϕ 0.4*141M			SERIAL No.:		
MFR.: AOK					SUR.:			Shielding Angle: ϕ 0.29M		
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	6.7	7.6	6.9	7.8	7.9	6.3	7.2	6.5	7.4	7.5
3H	6.9	7.8	7.2	8.0	8.2	6.5	7.4	6.8	7.6	7.8
4H	7.1	7.9	7.4	8.1	8.3	6.7	7.5	6.9	7.7	7.9
6H	7.2	7.9	7.5	8.2	8.4	6.7	7.5	7.0	7.7	8.0
8H	7.2	7.9	7.5	8.1	8.4	6.7	7.4	7.0	7.7	8.0
12H	7.1	7.8	7.4	8.1	8.4	6.7	7.4	7.0	7.6	7.9
4H 2H	6.6	7.4	6.9	7.7	7.9	6.3	7.1	6.5	7.3	7.5
3H	7.0	7.7	7.4	8.0	8.3	6.7	7.4	7.0	7.6	7.9
4H	7.3	7.9	7.6	8.2	8.5	6.9	7.5	7.2	7.8	8.1
6H	7.4	8.0	7.8	8.3	8.6	7.0	7.6	7.4	7.9	8.2
8H	7.4	7.9	7.8	8.3	8.7	7.0	7.5	7.4	7.9	8.2
12H	7.4	7.9	7.8	8.2	8.6	6.9	7.4	7.3	7.8	8.2
8H 4H	7.3	7.8	7.7	8.1	8.5	6.9	7.4	7.3	7.8	8.1
6H	7.5	7.9	7.9	8.3	8.7	7.1	7.5	7.5	7.9	8.3
8H	7.5	7.9	7.9	8.3	8.7	7.1	7.4	7.5	7.9	8.3
12H	7.5	7.8	7.9	8.2	8.7	7.0	7.3	7.5	7.8	8.3
12H 4H	7.2	7.7	7.6	8.1	8.5	6.9	7.3	7.3	7.7	8.1
6H	7.4	7.8	7.9	8.2	8.7	7.0	7.4	7.5	7.8	8.3
8H	7.5	7.8	7.9	8.2	8.7	7.0	7.4	7.5	7.8	8.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 1.6					+ 2.1 / - 1.7				
1.5H	+ 4.0 / - 1.5					+ 4.0 / - 1.6				
2.0H	+ 0.4 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 29183 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 11.7$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 141M$	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: $\phi 0.29M$

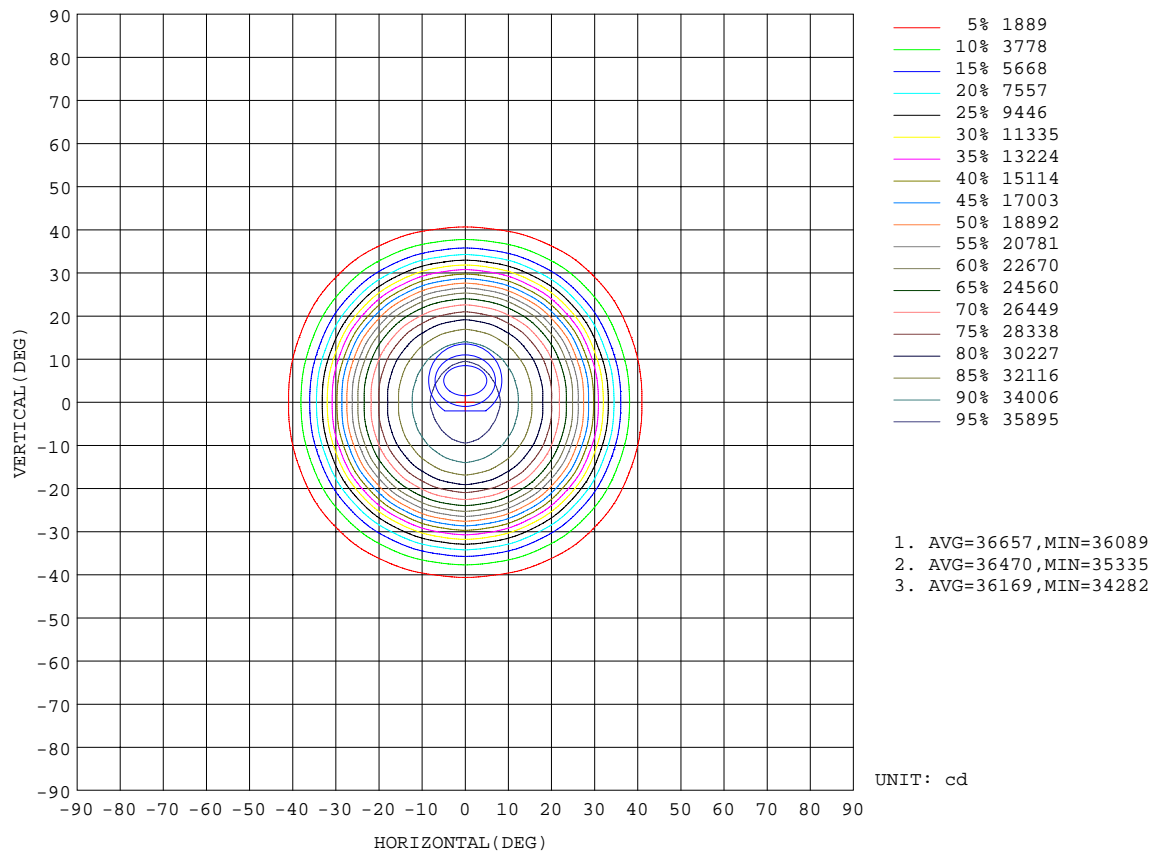
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	88	81	78	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	95
3.00	112	108	105	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: ϕ 0.29M



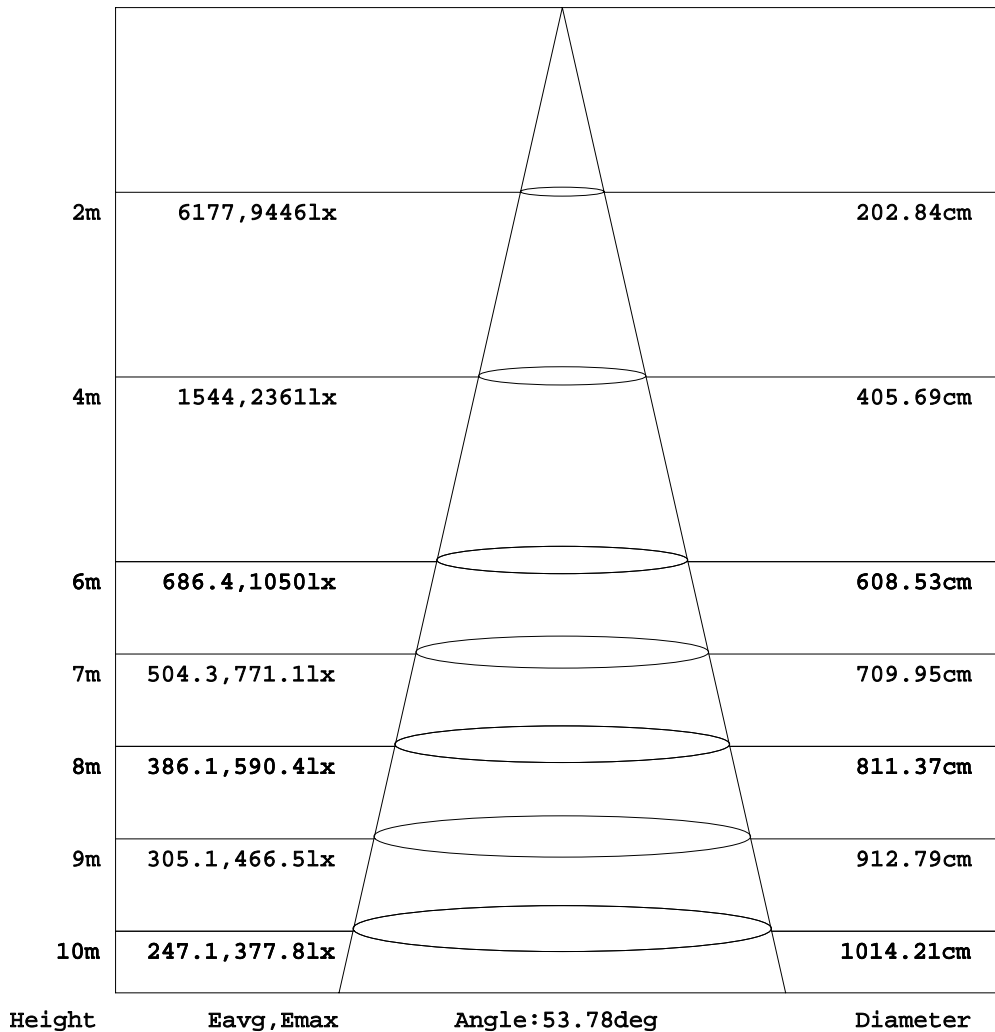
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 141M$	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: $\phi 0.29M$

Flux out:20153 lm



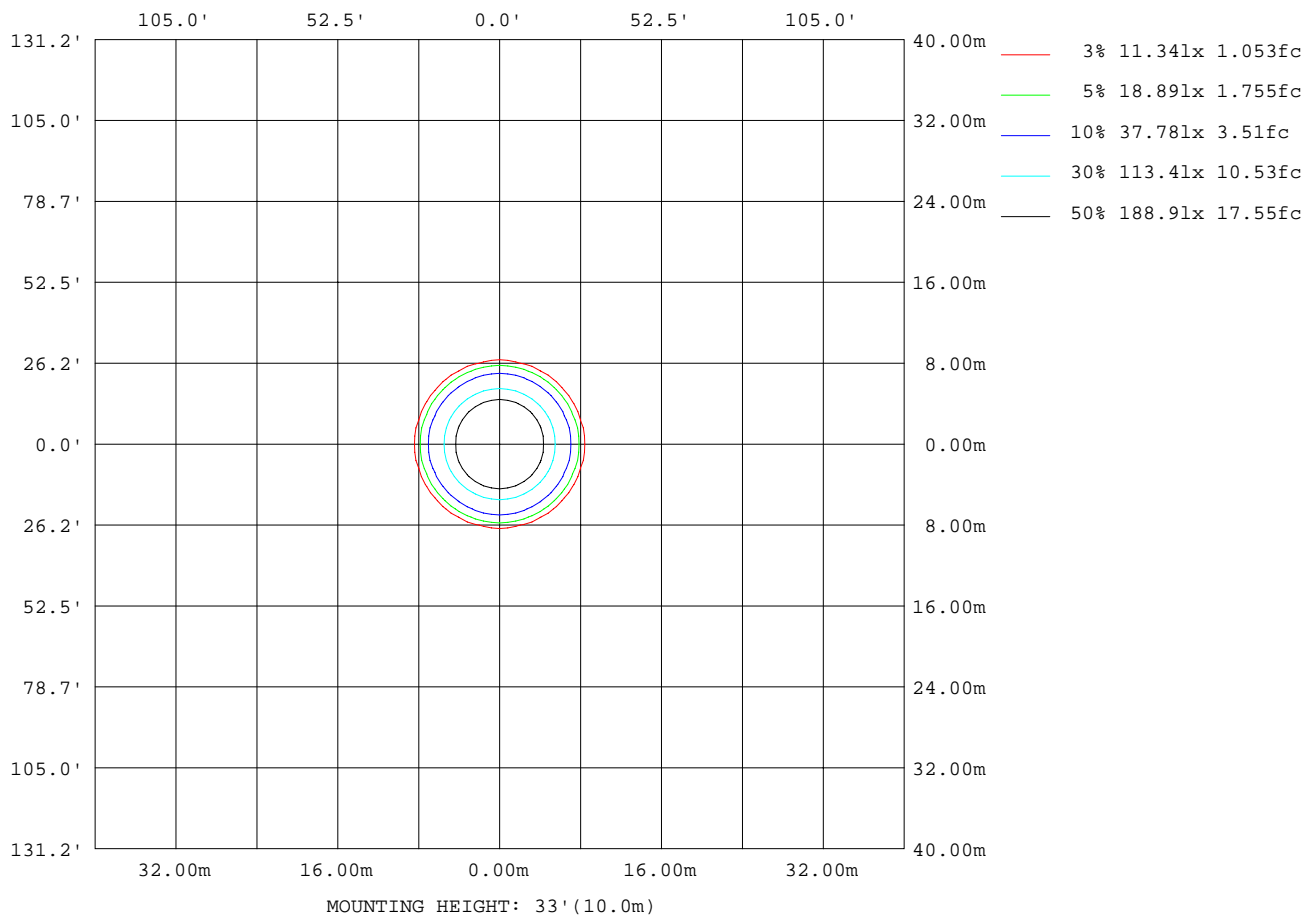
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: Φ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: Φ 0.29M



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.633m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: ϕ 0.29M

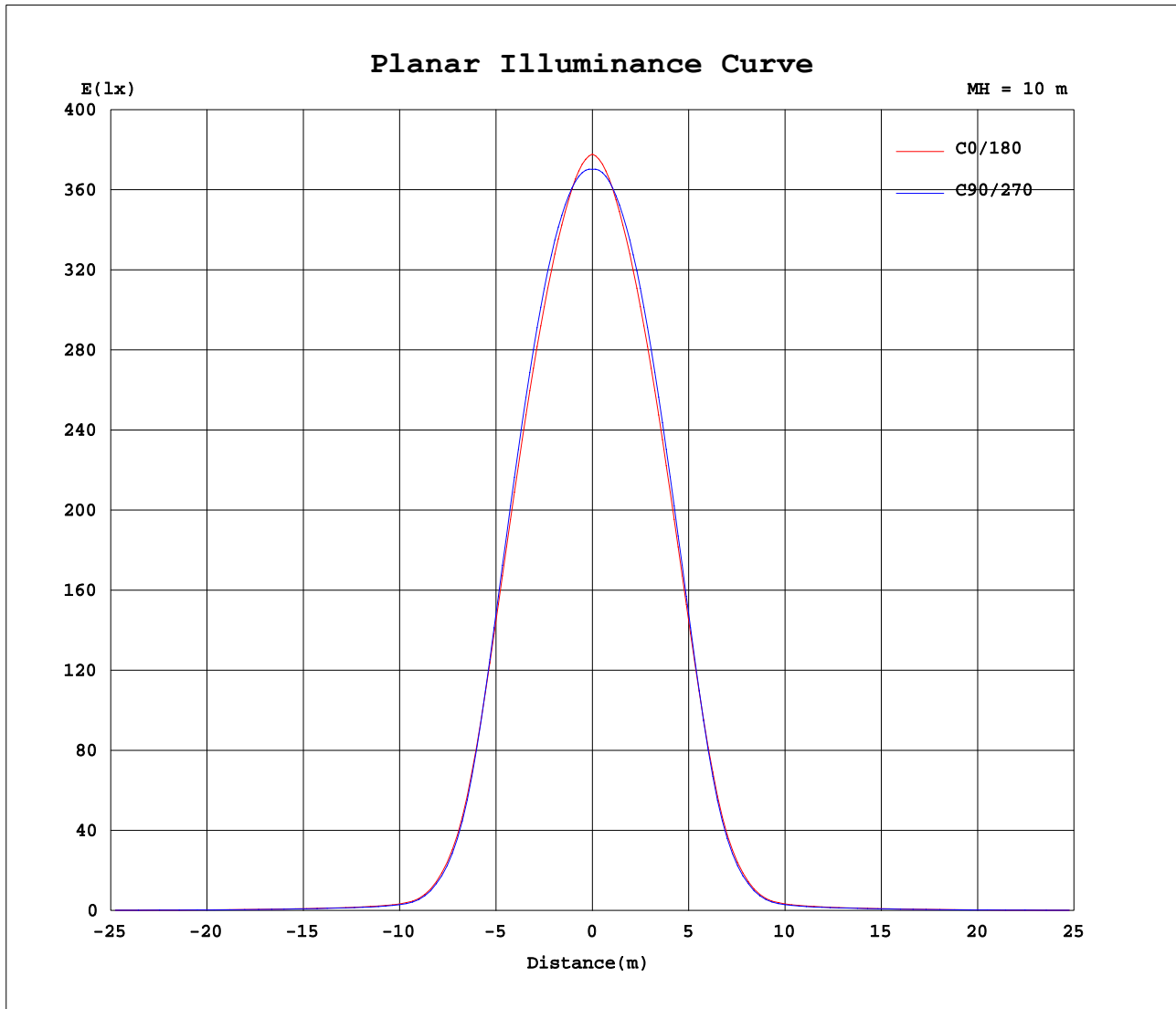
AvgL	cd/m2
L_0~180 (65) av	8743
L_0~180 (75) av	7536
L_0~180 (85) av	1469
L_90~270 (65) av	8303
L_90~270 (75) av	7206
L_90~270 (85) av	977
L_45 (65) av	8399
L_45 (75) av	7270
L_45 (85) av	1103

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_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: 2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.633m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*141M	SERIAL No.:
MFR.: AOK	SUR.:	Shielding Angle: ϕ 0.29M

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	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734
5	3653	3659	3663	3672	3678	3688	3694	3704	3709	3715	3709	3704	3694	3688	3678	3672	3663	3659	3653
10	3471	3484	3494	3511	3524	3544	3560	3579	3591	3604	3591	3579	3560	3544	3524	3511	3494	3484	3471
15	3202	3227	3241	3266	3280	3306	3318	3341	3352	3372	3352	3341	3318	3306	3280	3266	3241	3227	3202
20	2801	2837	2854	2887	2898	2921	2923	2940	2941	2963	2941	2940	2923	2921	2898	2887	2854	2837	2801
25	2221	2263	2271	2304	2300	2323	2307	2321	2308	2337	2308	2321	2307	2323	2300	2304	2271	2263	2221
30	1450	1479	1471	1491	1466	1474	1448	1464	1448	1473	1448	1464	1448	1474	1466	1491	1471	1479	1450
35	679	690	670	678	657	667	650	662	644	660	644	662	650	667	657	678	670	690	679
40	237	248	233	236	227	231	223	226	217	221	217	226	223	231	227	236	233	248	237
45	93.1	91.0	87.1	85.0	82.0	82.7	82.4	84.0	83.2	84.4	83.2	84.0	82.4	82.7	82.0	85.0	87.1	91.0	93.1
50	68.7	67.8	66.4	65.0	63.2	62.7	62.1	62.5	62.4	62.7	62.4	62.5	62.1	62.7	63.2	65.0	66.4	67.8	68.7
55	58.7	58.2	57.5	57.2	55.7	55.1	54.4	54.6	54.6	54.6	54.6	54.6	54.4	55.1	55.7	57.2	57.5	58.2	58.7
60	47.7	47.7	47.1	47.2	46.1	45.7	45.1	45.1	45.0	45.1	45.0	45.1	45.1	45.7	46.1	47.2	47.1	47.7	47.7
65	36.9	36.9	36.4	36.5	35.6	35.5	35.2	35.3	34.9	35.1	34.9	35.3	35.2	35.5	35.6	36.5	36.4	36.9	36.9
70	28.3	28.3	28.1	28.4	27.5	27.4	27.1	27.4	27.1	27.2	27.1	27.4	27.1	27.4	27.5	28.4	28.1	28.3	28.3
75	19.5	19.6	19.4	19.6	19.0	18.7	18.5	18.6	18.4	18.7	18.4	18.6	18.5	18.7	19.0	19.6	19.4	19.6	19.5
80	10.3	10.4	9.92	10.0	9.37	9.24	8.65	8.83	8.55	8.97	8.55	8.83	8.65	9.24	9.37	10.0	9.92	10.4	10.3
85	1.28	1.28	1.07	1.08	0.96	0.97	0.88	0.88	0.83	0.85	0.83	0.88	0.88	0.97	0.96	1.08	1.07	1.28	1.28
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: 2018-04-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.9498A P:205.6W PF:0.9735 Freq:49.99Hz Lamp Flux:29182.8x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-4000K-Ra80-60D									DIM.: ϕ 0.4*141M						SERIAL No.:		
MFR.: AOK									SUR.:						Shielding Angle: ϕ 0.29M		

Table--2

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

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734		
5	3659	3663	3672	3678	3688	3694	3704	3709	3715	3709	3704	3694	3688	3678	3672	3663	3659		
10	3484	3494	3511	3524	3544	3560	3579	3591	3604	3591	3579	3560	3544	3524	3511	3494	3484		
15	3227	3241	3266	3280	3306	3318	3341	3352	3372	3352	3341	3318	3306	3280	3266	3241	3227		
20	2837	2854	2887	2898	2921	2923	2940	2941	2963	2941	2940	2923	2921	2898	2887	2854	2837		
25	2263	2271	2304	2300	2323	2307	2321	2308	2337	2308	2321	2307	2323	2300	2304	2271	2263		
30	1479	1471	1491	1466	1474	1448	1464	1448	1473	1448	1464	1448	1474	1466	1491	1471	1479		
35	690	670	678	657	667	650	662	644	660	644	662	650	667	657	678	670	690		
40	248	233	236	227	231	223	226	217	221	217	226	223	231	227	236	233	248		
45	91.0	87.1	85.0	82.0	82.7	82.4	84.0	83.2	84.4	83.2	84.0	82.4	82.7	82.0	85.0	87.1	91.0		
50	67.8	66.4	65.0	63.2	62.7	62.1	62.5	62.4	62.7	62.4	62.5	62.1	62.7	63.2	65.0	66.4	67.8		
55	58.2	57.5	57.2	55.7	55.1	54.4	54.6	54.6	54.6	54.6	54.6	54.4	55.1	55.7	57.2	57.5	58.2		
60	47.7	47.1	47.2	46.1	45.7	45.1	45.1	45.0	45.1	45.0	45.1	45.1	45.7	46.1	47.2	47.1	47.7		
65	36.9	36.4	36.5	35.6	35.5	35.2	35.3	34.9	35.1	34.9	35.3	35.2	35.5	35.6	36.5	36.4	36.9		
70	28.3	28.1	28.4	27.5	27.4	27.1	27.4	27.1	27.2	27.1	27.4	27.1	27.4	27.5	28.4	28.1	28.3		
75	19.6	19.4	19.6	19.0	18.7	18.5	18.6	18.4	18.7	18.4	18.6	18.5	18.7	19.0	19.6	19.4	19.6		
80	10.4	9.92	10.0	9.37	9.24	8.65	8.83	8.55	8.97	8.55	8.83	8.65	9.24	9.37	10.0	9.92	10.4		
85	1.28	1.07	1.08	0.96	0.97	0.88	0.88	0.83	0.85	0.83	0.88	0.88	0.97	0.96	1.08	1.07	1.28		
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
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
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