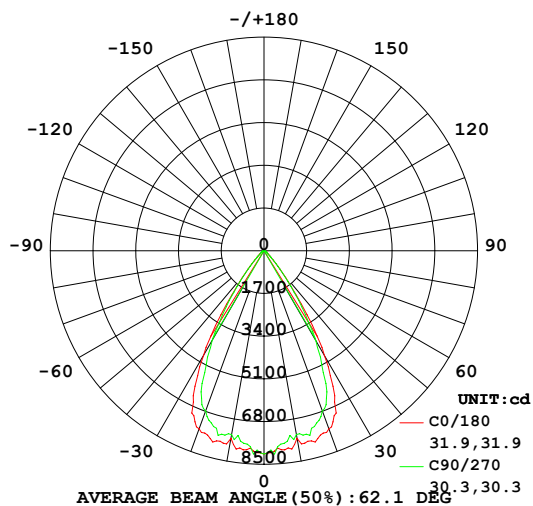


LUMINAIRE PHOTOMETRIC TEST REPORT

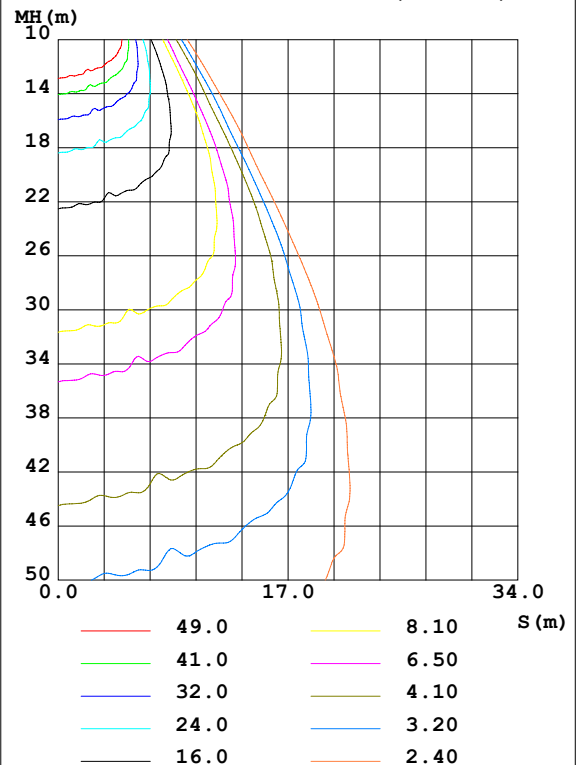
Test:U:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.73 lm/W			
MODEL	3030	I _{max} (cd)	8097	S/MH (C0/180)	0.93
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	0.89
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	7796.8	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	7796.84	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	0.90

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:2018-01-03

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	7580	7543	7433	7543	7580	7543	7433	7543	0- 10	738.9	738.9	9.48,9.48
20	7543	7005	6793	7005	7543	7005	6793	7005	10- 20	2102	2841	36.4,36.4
30	4803	4195	4127	4195	4803	4195	4127	4195	20- 30	2704	5545	71.1,71.1
40	1155	1122	1131	1122	1155	1122	1131	1122	30- 40	1530	7075	90.7,90.7
50	256.9	257.0	247.5	257.0	256.9	257.0	247.5	257.0	40- 50	430.6	7506	96.3,96.3
60	106.1	111.0	100.6	111.0	106.1	111.0	100.6	111.0	50- 60	146.9	7653	98.2,98.2
70	58.20	61.70	57.28	61.70	58.20	61.70	57.28	61.70	60- 70	80.85	7733	99.2,99.2
80	25.41	25.57	25.85	25.57	25.41	25.57	25.85	25.57	70- 80	43.93	7777	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	19.45	7797	100,100
100	0	0	0	0	0	0	0	0	90-100	0	7797	100,100
110	0	0	0	0	0	0	0	0	100-110	0	7797	100,100
120	0	0	0	0	0	0	0	0	110-120	0	7797	100,100
130	0	0	0	0	0	0	0	0	120-130	0	7797	100,100
140	0	0	0	0	0	0	0	0	130-140	0	7797	100,100
150	0	0	0	0	0	0	0	0	140-150	0	7797	100,100
160	0	0	0	0	0	0	0	0	150-160	0	7797	100,100
170	0	0	0	0	0	0	0	0	160-170	0	7797	100,100
180	0	0	0	0	0	0	0	0	170-180	0	7797	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7361 lm

%lum = 94.4%

%lamp = 94.4%

Conical surface Flux(120deg): 7652.6 lm

%lum = 98.2%

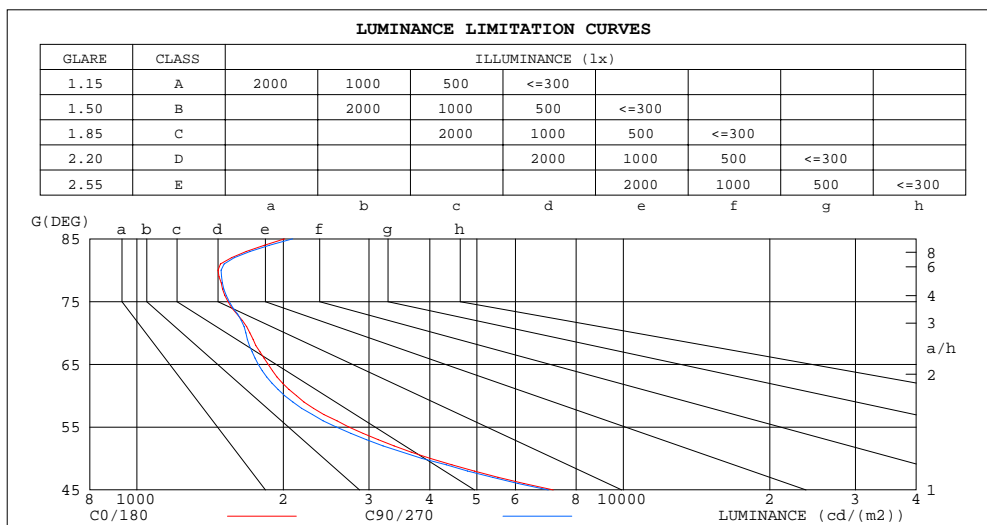
%lamp = 98.2%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2012	2090
80	1468	1489
75	1539	1548
70	1707	1675
65	1862	1776
60	2129	2012
55	2726	2571
50	4010	3852
45	7175	7010

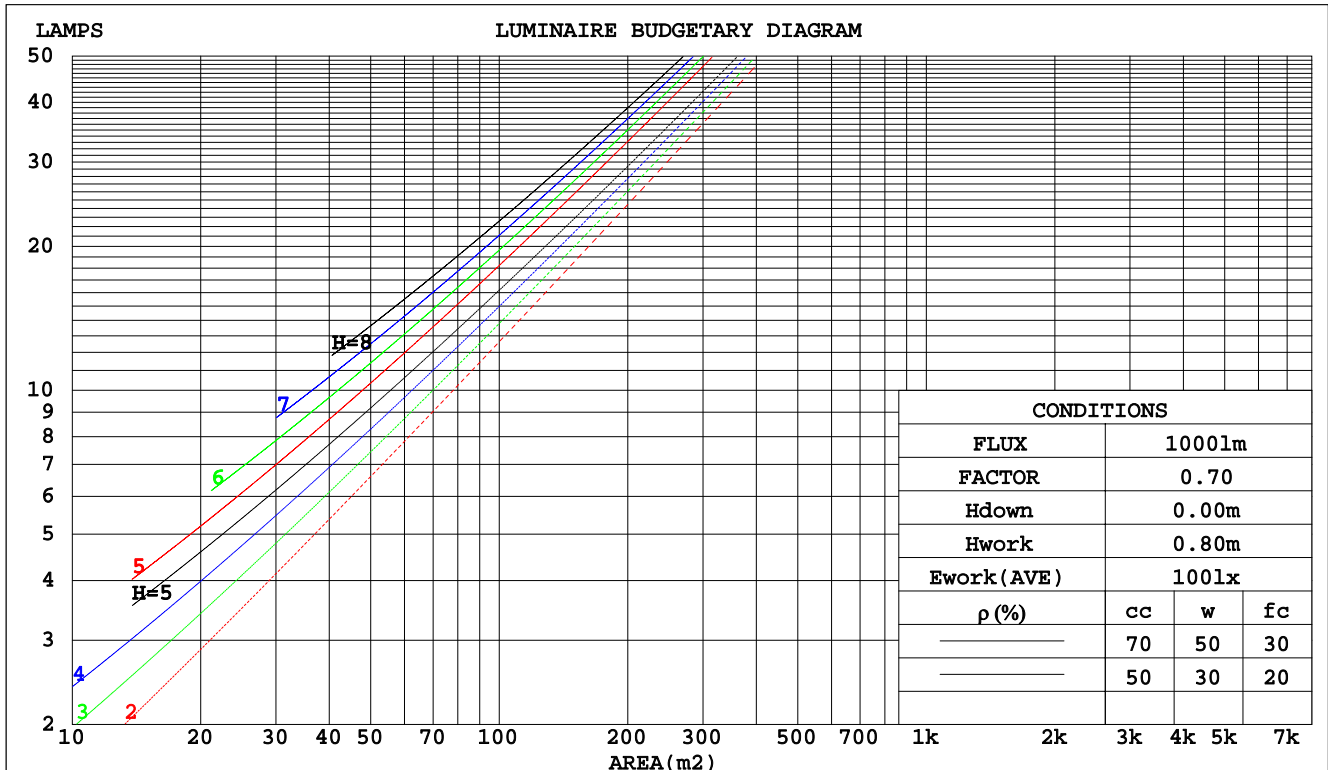
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.92	.94	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.83	.86	.84	.81	.80
4.0	.89	.83	.79	.88	.82	.78	.85	.81	.77	.83	.80	.76	.82	.78	.76	.74
5.0	.83	.77	.73	.82	.76	.72	.80	.75	.72	.79	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.72	.67	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.54	.62	.58	.54	.62	.57	.54	.53
10.0	.61	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.50



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	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	.186	.106	.034	.179	.102	.032	.167	.096	.031	.155	.089	.029	.144	.084	.027	
2.0	.177	.097	.030	.172	.095	.029	.161	.090	.028	.151	.085	.027	.142	.080	.025	
3.0	.168	.090	.027	.164	.088	.026	.154	.084	.025	.146	.080	.025	.138	.077	.024	
4.0	.160	.083	.024	.156	.082	.024	.148	.078	.023	.141	.075	.023	.134	.073	.022	
5.0	.152	.078	.022	.149	.076	.022	.142	.074	.022	.135	.071	.021	.129	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	.125	.066	.020	
7.0	.138	.068	.019	.136	.068	.019	.130	.066	.019	.125	.064	.019	.120	.063	.018	
8.0	.132	.065	.018	.130	.064	.018	.125	.062	.018	.120	.061	.018	.116	.060	.017	
9.0	.127	.061	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016	
10.0	.121	.058	.016	.119	.058	.016	.115	.057	.016	.112	.056	.016	.108	.054	.016	

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	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.067	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm											
NAME: AOK-oh					TYPE:LED			WEIGHT:2.9KG			
SPEC.:AOK-60WoH-3030-60D-PC-ALL					DIM.: ϕ 0.248*0.138M			SERIAL No.:1			
MFR.: AOK					SUR.: ϕ 0.16M			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		8.8	9.7	9.0	9.9	10.1	8.1	9.1	8.3	9.3	9.4
	3H	8.7	9.6	9.0	9.8	10.1	8.1	9.0	8.4	9.2	9.4
	4H	8.7	9.6	9.0	9.8	10.0	8.1	9.0	8.4	9.2	9.4
	6H	8.7	9.5	9.0	9.8	10.0	8.1	8.9	8.4	9.1	9.4
	8H	8.7	9.5	9.0	9.7	10.0	8.1	8.9	8.4	9.1	9.4
	12H	8.7	9.4	9.0	9.7	10.0	8.1	8.8	8.4	9.1	9.4
4H	2H	8.6	9.4	8.9	9.7	9.9	8.0	8.8	8.2	9.0	9.3
	3H	8.6	9.4	9.0	9.6	9.9	8.0	8.8	8.3	9.0	9.3
	4H	8.7	9.3	9.0	9.6	9.9	8.1	8.7	8.4	9.0	9.3
	6H	8.7	9.3	9.1	9.6	10.0	8.1	8.7	8.5	9.0	9.4
	8H	8.7	9.2	9.1	9.6	10.0	8.1	8.7	8.5	9.0	9.4
	12H	8.7	9.2	9.1	9.6	10.0	8.2	8.7	8.6	9.1	9.4
8H	4H	8.6	9.1	9.0	9.5	9.9	8.0	8.6	8.4	8.9	9.3
	6H	8.7	9.1	9.1	9.5	9.9	8.1	8.6	8.5	8.9	9.4
	8H	8.7	9.1	9.2	9.5	10.0	8.2	8.6	8.6	9.0	9.4
	12H	8.8	9.1	9.2	9.6	10.0	8.3	8.6	8.7	9.0	9.5
12H	4H	8.5	9.0	9.0	9.4	9.8	8.0	8.5	8.4	8.8	9.2
	6H	8.6	9.0	9.1	9.4	9.9	8.1	8.5	8.5	8.9	9.3
	8H	8.7	9.0	9.2	9.5	9.9	8.2	8.5	8.6	8.9	9.4
Variations with the observer position at spacings:											
S = 1.0H	+ 2.6 / - 3.7					+ 2.7 / - 3.7					
1.5H	+ 4.6 / - 3.3					+ 4.6 / - 3.3					
2.0H	+ 3.1 / - 1.4					+ 3.1 / - 1.4					

CIE Pub.117, 7797 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.1$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

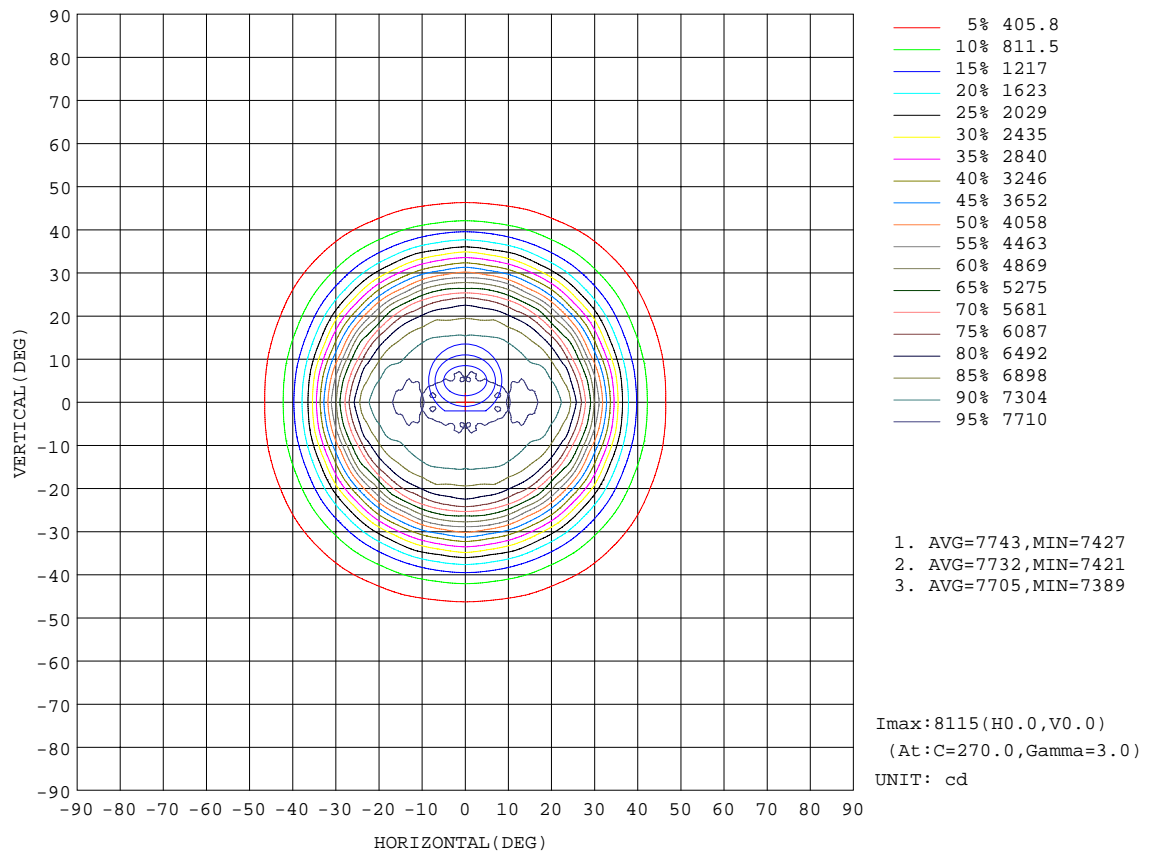
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	79	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	90
2.00	108	104	100	106	102	99	104	100	98	93
2.50	110	106	103	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
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:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

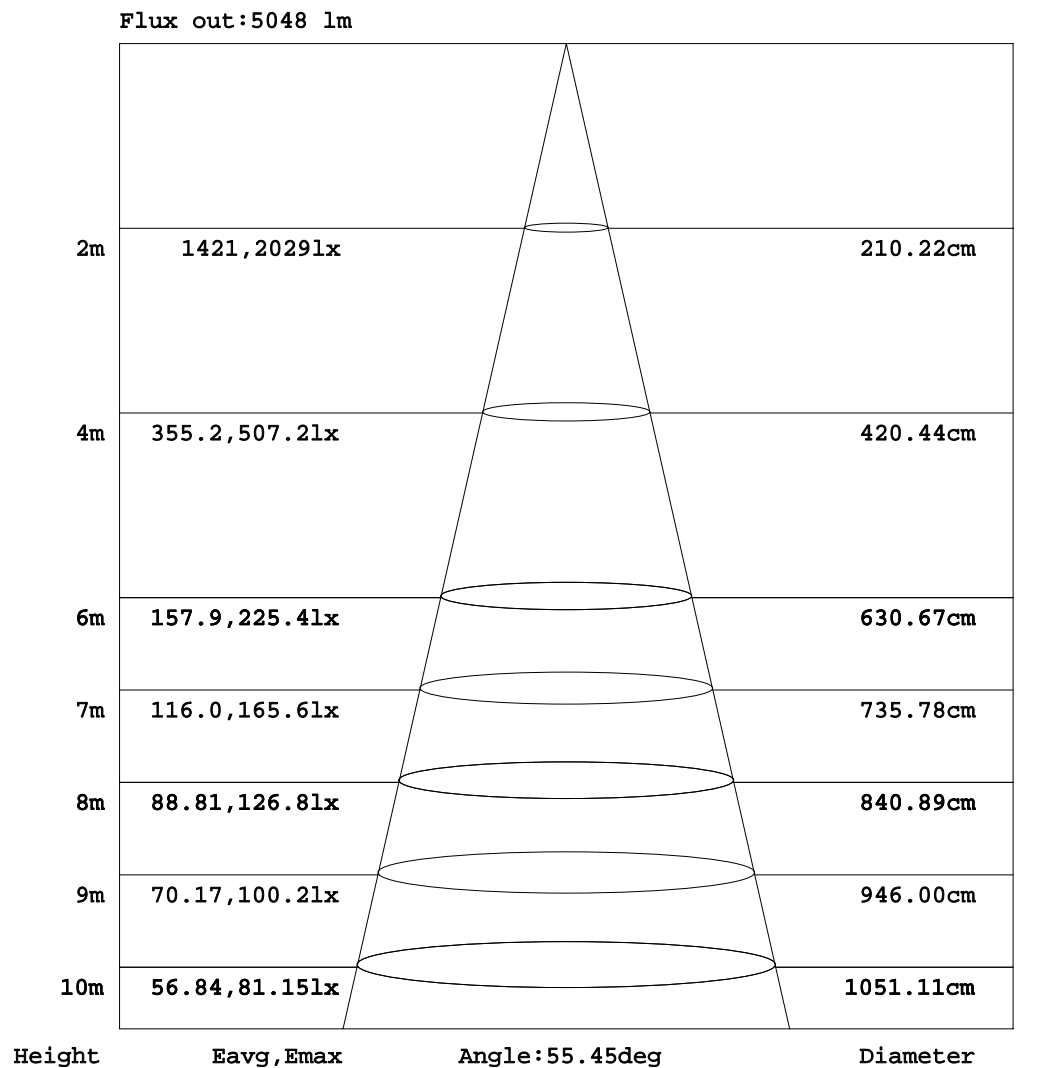


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



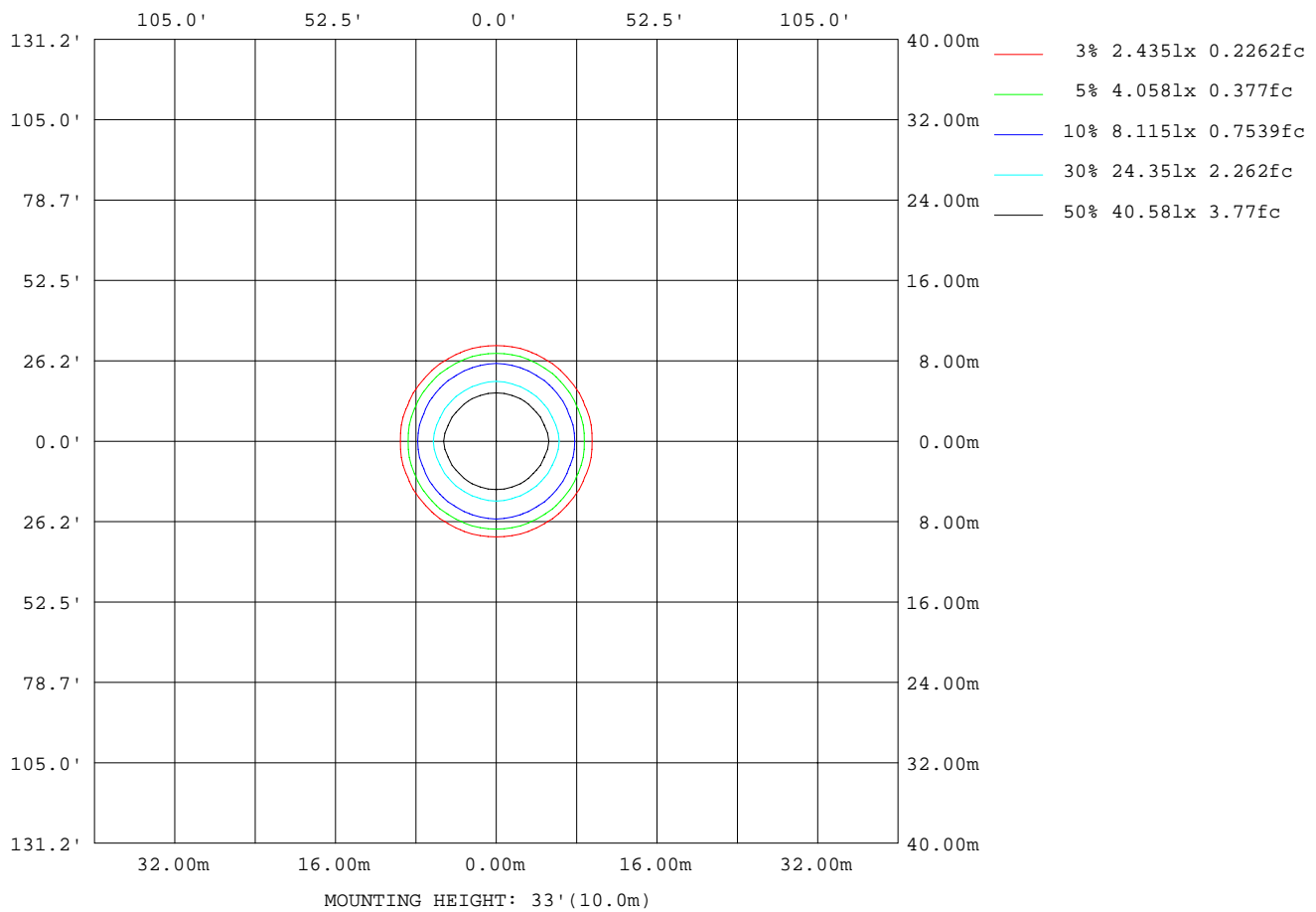
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: Φ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: Φ 0.16M	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

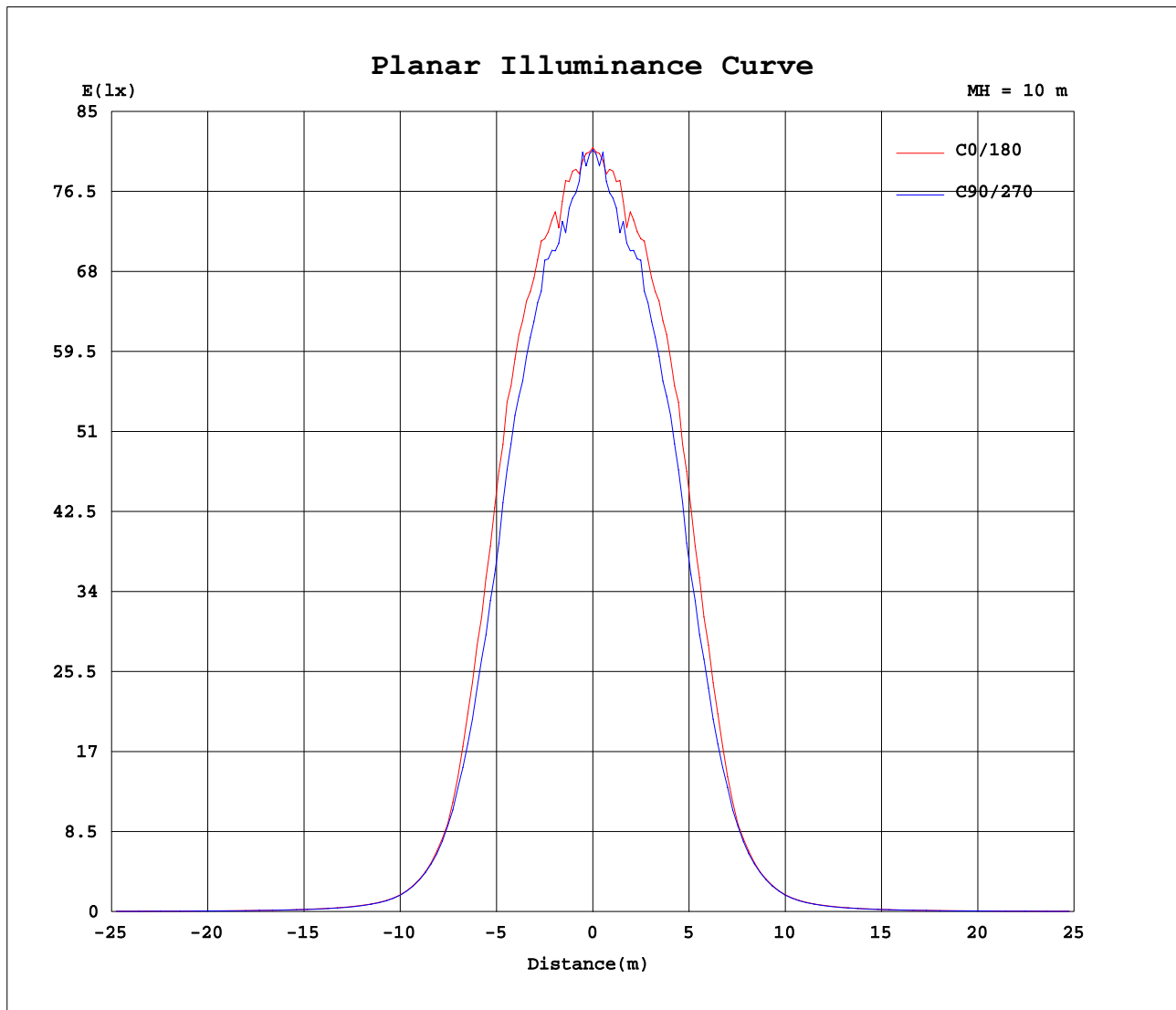
AvgL	cd/m2
L_0~180 (65) av	1856
L_0~180 (75) av	1534
L_0~180 (85) av	2006
L_90~270 (65) av	1775
L_90~270 (75) av	1548
L_90~270 (85) av	2089
L_45 (65) av	1956
L_45 (75) av	1585
L_45 (85) av	2027

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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: 2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-60D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

Table--1

UNIT: 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	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089
5	7950	7882	7803	7888	7770	7806	7790	7778	7681	7721	7681	7778	7790	7806	7770	7888	7803	7882	7950
10	7580	7708	7603	7571	7589	7498	7431	7485	7565	7433	7565	7485	7431	7498	7589	7571	7603	7708	7580
15	7879	7713	7633	7564	7546	7539	7451	7432	7428	7310	7428	7432	7451	7539	7546	7564	7633	7713	7879
20	7543	7427	7312	7208	7012	6997	6902	6935	6783	6793	6783	6935	6902	6997	7012	7208	7312	7427	7543
25	6646	6478	6419	6229	6006	5941	5962	5865	5791	5834	5791	5865	5962	5941	6006	6229	6419	6478	6646
30	4803	4690	4422	4362	4215	4176	4008	4051	4017	4127	4017	4051	4008	4176	4215	4362	4422	4690	4803
35	2599	2600	2431	2477	2313	2357	2282	2322	2279	2399	2279	2322	2282	2357	2313	2477	2431	2600	2599
40	1155	1163	1112	1134	1109	1134	1093	1109	1101	1131	1101	1109	1093	1134	1109	1134	1112	1163	1155
45	506	518	499	508	495	503	492	505	493	495	493	505	492	503	495	508	499	518	506
50	257	268	258	266	256	257	254	253	248	248	248	253	254	257	256	266	258	268	257
55	156	161	160	162	159	159	154	152	151	147	151	152	154	159	159	162	160	161	156
60	106	111	112	113	112	110	107	106	103	101	103	106	107	110	112	113	112	111	106
65	78.4	81.4	82.4	83.4	83.2	82.1	80.9	79.0	76.9	75.0	76.9	79.0	80.9	82.1	83.2	83.4	82.4	81.4	78.4
70	58.2	60.5	61.5	61.7	61.8	61.6	60.1	59.5	58.6	57.3	58.6	59.5	60.1	61.6	61.8	61.7	61.5	60.5	58.2
75	39.7	40.7	40.6	41.2	40.9	41.0	40.1	40.4	40.2	40.1	40.2	40.4	40.1	41.0	40.9	41.2	40.6	40.7	39.7
80	25.4	25.9	25.6	26.1	25.7	25.4	25.2	25.7	25.7	25.8	25.7	25.7	25.2	25.4	25.7	26.1	25.6	25.9	25.4
85	17.5	17.9	17.6	17.9	17.7	17.7	17.4	17.8	18.0	18.2	18.0	17.8	17.4	17.7	17.7	17.9	17.6	17.9	17.5
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:2018-01-03

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:220.1V I:0.2947A P:60.10W PF:0.9734 Freq:49.99Hz Lamp Flux:7796.84x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:2.9KG		
SPEC.:AOK-60WoH-3030-60D-PC-ALL									DIM.: ϕ 0.248*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: ϕ 0.16M						Shielding Angle:		

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089	8089		
5	7882	7803	7888	7770	7806	7790	7778	7681	7721	7681	7778	7790	7806	7770	7888	7803	7882		
10	7708	7603	7571	7589	7498	7431	7485	7565	7433	7565	7485	7431	7498	7589	7571	7603	7708		
15	7713	7633	7564	7546	7539	7451	7432	7428	7310	7428	7432	7451	7539	7546	7564	7633	7713		
20	7427	7312	7208	7012	6997	6902	6935	6783	6793	6783	6935	6902	6997	7012	7208	7312	7427		
25	6478	6419	6229	6006	5941	5962	5865	5791	5834	5791	5865	5962	5941	6006	6229	6419	6478		
30	4690	4422	4362	4215	4176	4008	4051	4017	4127	4017	4051	4008	4176	4215	4362	4422	4690		
35	2600	2431	2477	2313	2357	2282	2322	2279	2399	2279	2322	2282	2357	2313	2477	2431	2600		
40	1163	1112	1134	1109	1134	1093	1109	1101	1131	1101	1109	1093	1134	1109	1134	1112	1163		
45	518	499	508	495	503	492	505	493	495	493	505	492	503	495	508	499	518		
50	268	258	266	256	257	254	253	248	248	248	253	254	257	256	266	258	268		
55	161	160	162	159	159	154	152	151	147	151	152	154	159	159	162	160	161		
60	111	112	113	112	110	107	106	103	101	103	106	107	110	112	113	112	111		
65	81.4	82.4	83.4	83.2	82.1	80.9	79.0	76.9	75.0	76.9	79.0	80.9	82.1	83.2	83.4	82.4	81.4		
70	60.5	61.5	61.7	61.8	61.6	60.1	59.5	58.6	57.3	58.6	59.5	60.1	61.6	61.8	61.7	61.5	60.5		
75	40.7	40.6	41.2	40.9	41.0	40.1	40.4	40.2	40.1	40.2	40.4	40.1	41.0	40.9	41.2	40.6	40.7		
80	25.9	25.6	26.1	25.7	25.4	25.2	25.7	25.7	25.8	25.7	25.7	25.2	25.4	25.7	26.1	25.6	25.9		
85	17.9	17.6	17.9	17.7	17.7	17.4	17.8	18.0	18.2	18.0	17.8	17.4	17.7	17.7	17.9	17.6	17.9		
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		
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:2018-01-03

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: