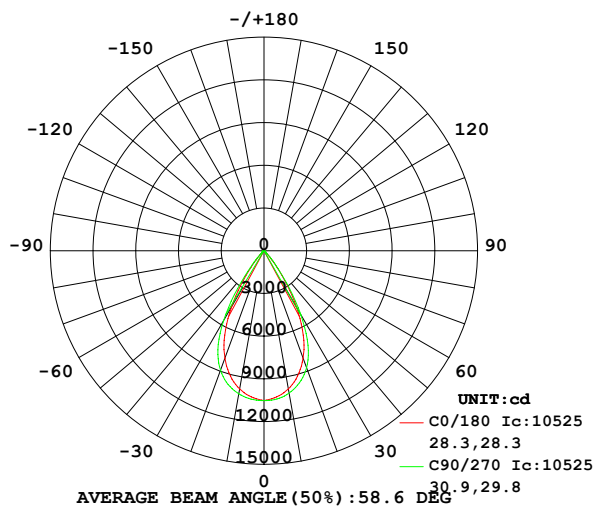


LUMINAIRE PHOTOMETRIC TEST REPORT

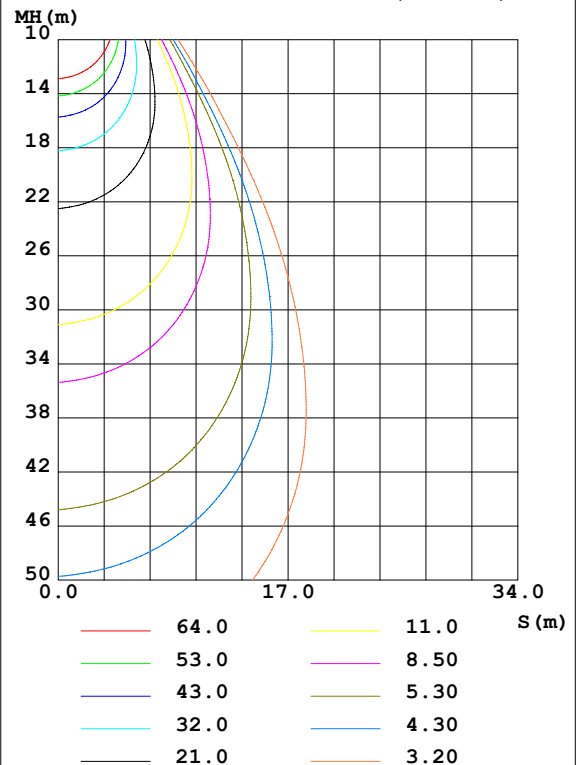
Test:U:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.75 lm/W			
MODEL	3030	I _{max} (cd)	10525	S/MH (C0/180)	0.85
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	0.91
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	9078.7	η UP,DN (C0-180)	0.0,49.2
NOMINAL FLUX (lm)	9078.7	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.8
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:2018-04-14

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	985.6	990.7	1015	990.7	985.6	1000	1020	1000	0- 10	976.8	976.8	10.8,10.8
20	803.6	826.4	874.9	826.4	803.6	835.7	893.5	835.7	10- 20	2605	3582	39.5,39.5
30	457.8	474.1	514.7	474.1	457.8	497.8	569.6	497.8	20- 30	3107	6689	73.7,73.7
40	103.5	104.6	114.3	104.6	103.5	115.8	128.4	115.8	30- 40	1719	8408	92.6,92.6
50	17.96	16.80	17.64	16.80	17.96	18.55	19.81	18.55	40- 50	349.9	8758	96.5,96.5
60	14.22	13.11	12.94	13.11	14.22	14.97	15.52	14.97	50- 60	138.8	8897	98.98
70	9.057	7.913	7.671	7.913	9.057	10.34	10.71	10.34	60- 70	118.0	9015	99.3,99.3
80	1.854	1.643	1.615	1.643	1.854	2.283	2.964	2.283	70- 80	58.48	9074	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	5.173	9079	100,100
100	0	0	0	0	0	0	0	0	90-100	0	9079	100,100
110	0	0	0	0	0	0	0	0	100-110	0	9079	100,100
120	0	0	0	0	0	0	0	0	110-120	0	9079	100,100
130	0	0	0	0	0	0	0	0	120-130	0	9079	100,100
140	0	0	0	0	0	0	0	0	130-140	0	9079	100,100
150	0	0	0	0	0	0	0	0	140-150	0	9079	100,100
160	0	0	0	0	0	0	0	0	150-160	0	9079	100,100
170	0	0	0	0	0	0	0	0	160-170	0	9079	100,100
180	0	0	0	0	0	0	0	0	170-180	0	9079	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 8660.9 lm

%lum = 95.4%

%lamp = 95.4%

Conical surface Flux(120deg): 8897.1 lm

%lum = 98.0%

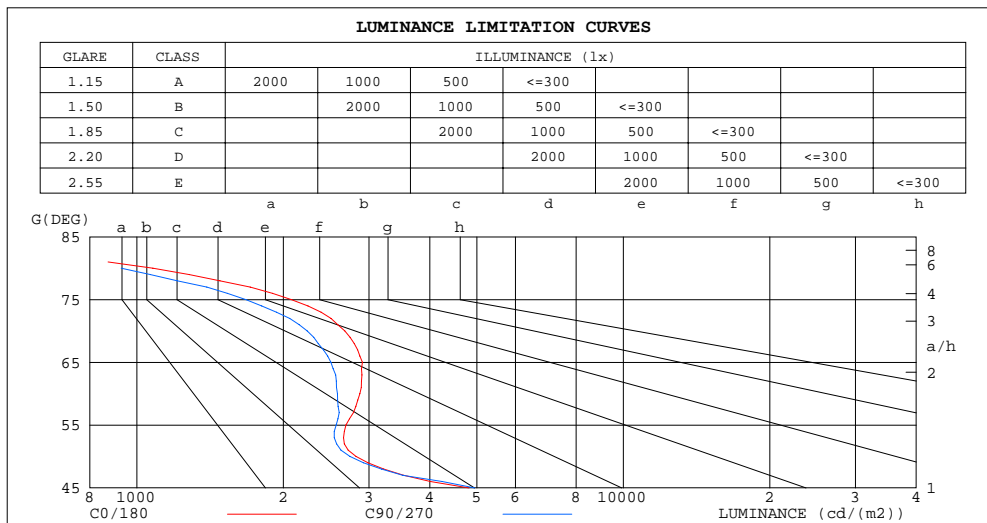
%lamp = 98.0%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	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	162	174
80	1079	929
75	2077	1674
70	2675	2239
65	2908	2504
60	2872	2584
55	2691	2569
50	2823	2741
45	4818	4950

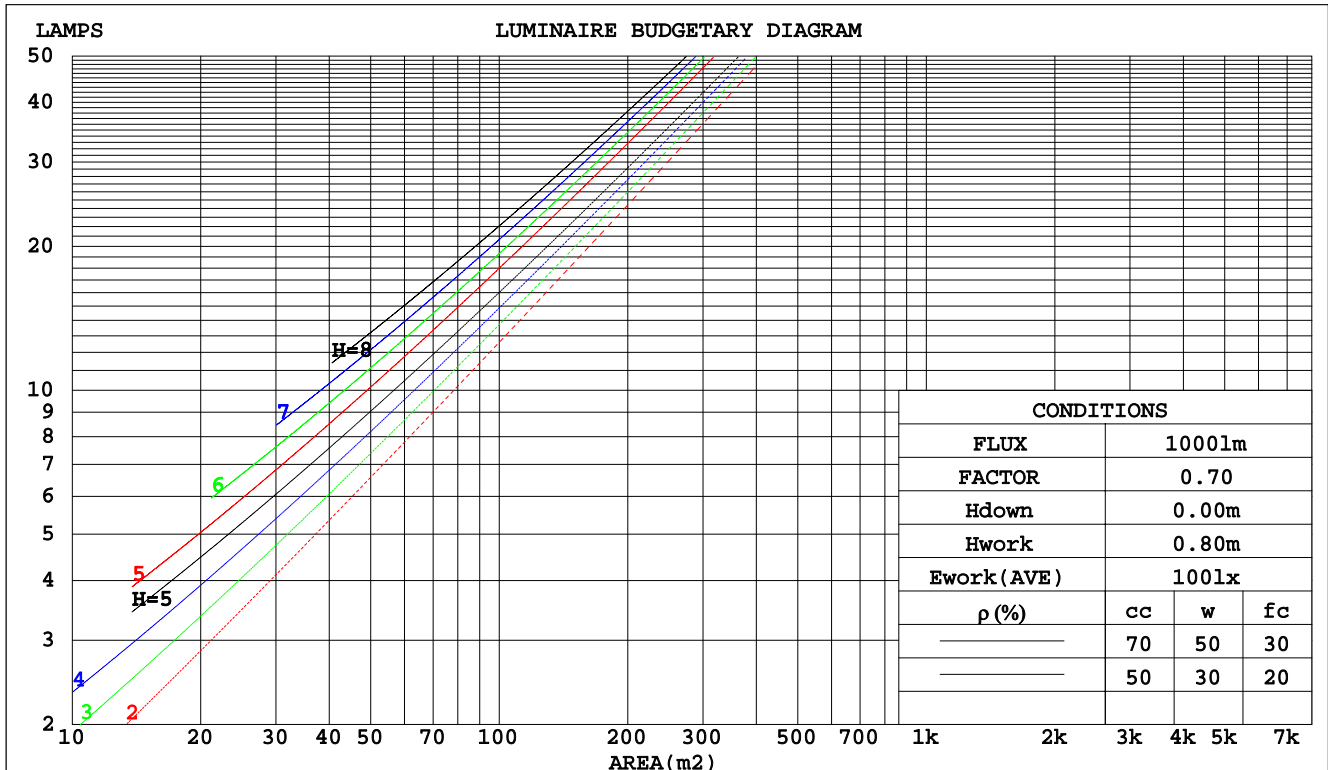
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.84	.82	.81
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.81	.78	.82	.79	.77	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.77	.73	.80	.75	.72	.78	.74	.72	.70
6.0	.79	.73	.69	.78	.73	.68	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.63	.57	.53	.62	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	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	.181	.103	.033	.174	.100	.032	.162	.093	.030	.150	.087	.028	.140	.081	.026		
2.0	.173	.095	.029	.167	.092	.028	.157	.087	.027	.147	.082	.026	.138	.078	.025		
3.0	.164	.087	.026	.160	.085	.026	.150	.082	.025	.142	.078	.024	.134	.074	.023		
4.0	.156	.081	.024	.152	.079	.023	.144	.076	.023	.137	.073	.022	.130	.071	.022		
5.0	.148	.076	.022	.145	.074	.022	.138	.072	.021	.132	.069	.021	.126	.067	.020		
6.0	.141	.071	.020	.138	.070	.020	.132	.068	.020	.127	.066	.019	.121	.064	.019		
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.018	.122	.062	.018	.117	.061	.018		
8.0	.129	.063	.018	.126	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017		
9.0	.123	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.016	.109	.055	.016		
10.0	.118	.057	.016	.116	.056	.016	.113	.055	.016	.109	.054	.015	.105	.053	.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	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.041	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.096	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.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:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D					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	7.5	8.5	7.8	8.7	8.8	7.7	8.7	7.9	8.8	9.0
3H	7.7	8.6	8.0	8.8	9.0	7.8	8.7	8.0	8.9	9.1
4H	7.8	8.6	8.0	8.8	9.0	7.8	8.6	8.1	8.8	9.1
6H	7.7	8.5	8.0	8.7	9.0	7.7	8.5	8.0	8.8	9.0
8H	7.7	8.4	8.0	8.7	9.0	7.7	8.5	8.0	8.7	9.0
12H	7.6	8.4	8.0	8.6	8.9	7.7	8.4	8.0	8.7	8.9
4H 2H	7.4	8.2	7.7	8.5	8.7	7.6	8.4	7.8	8.6	8.8
3H	7.7	8.4	8.0	8.7	8.9	7.7	8.5	8.1	8.7	9.0
4H	7.8	8.4	8.1	8.7	9.0	7.8	8.5	8.1	8.7	9.1
6H	7.8	8.4	8.2	8.7	9.0	7.8	8.3	8.2	8.7	9.0
8H	7.7	8.3	8.1	8.6	9.0	7.7	8.3	8.1	8.6	9.0
12H	7.7	8.2	8.1	8.6	8.9	7.7	8.2	8.1	8.5	8.9
8H 4H	7.7	8.3	8.1	8.6	9.0	7.7	8.3	8.1	8.6	9.0
6H	7.7	8.2	8.2	8.6	9.0	7.7	8.2	8.1	8.6	9.0
8H	7.7	8.1	8.1	8.5	8.9	7.7	8.1	8.1	8.5	8.9
12H	7.6	8.0	8.1	8.4	8.9	7.6	8.0	8.1	8.4	8.9
12H 4H	7.7	8.2	8.1	8.5	8.9	7.7	8.2	8.1	8.5	8.9
6H	7.7	8.1	8.1	8.5	8.9	7.7	8.1	8.1	8.5	8.9
8H	7.6	8.0	8.1	8.4	8.9	7.6	8.0	8.1	8.4	8.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 3.1					+ 3.0 / - 3.6				
1.5H	+ 5.0 / - 3.1					+ 5.3 / - 3.5				
2.0H	+ 1.5 / - 0.7					+ 1.8 / - 0.5				

CIE Pub.117, 9079 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.7$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

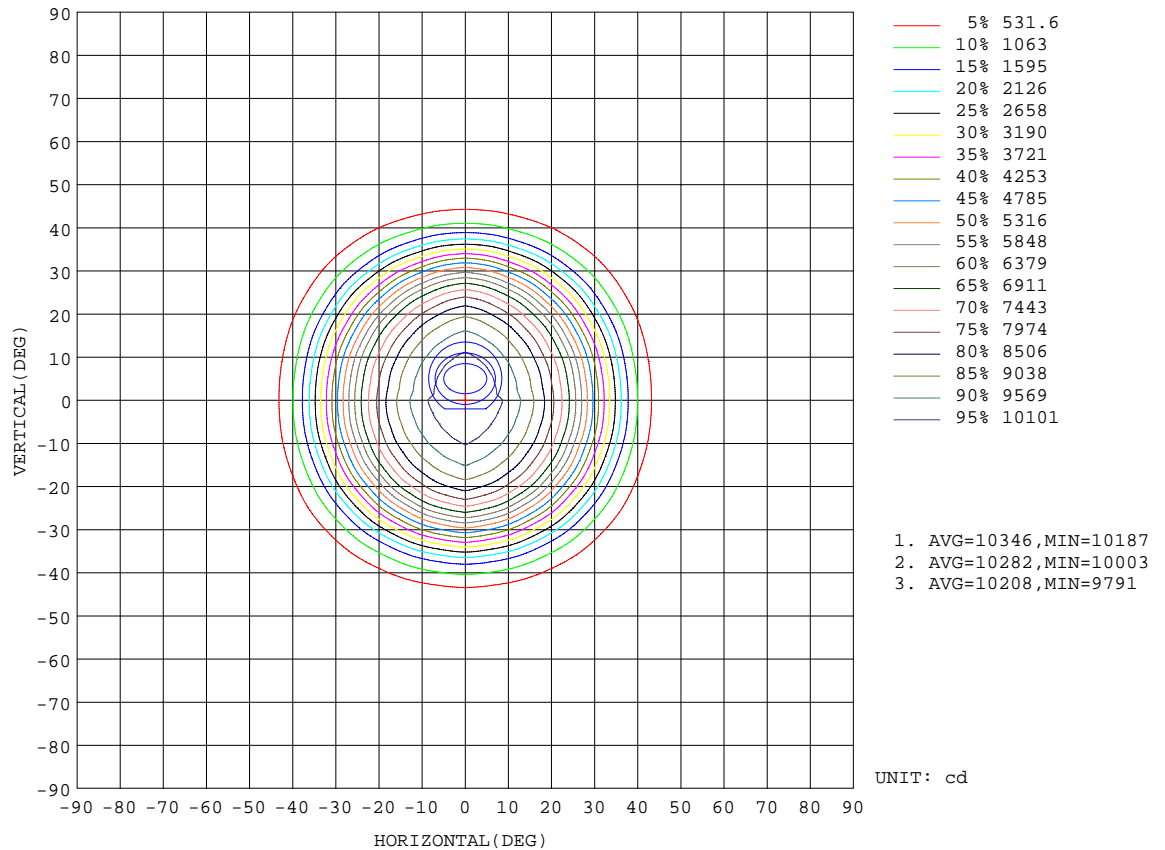
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	80	77	86	80	77	73
0.80	94	88	85	94	88	85	93	88	84	80
1.00	99	93	89	98	93	89	96	93	89	85
1.25	103	97	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	99
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:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

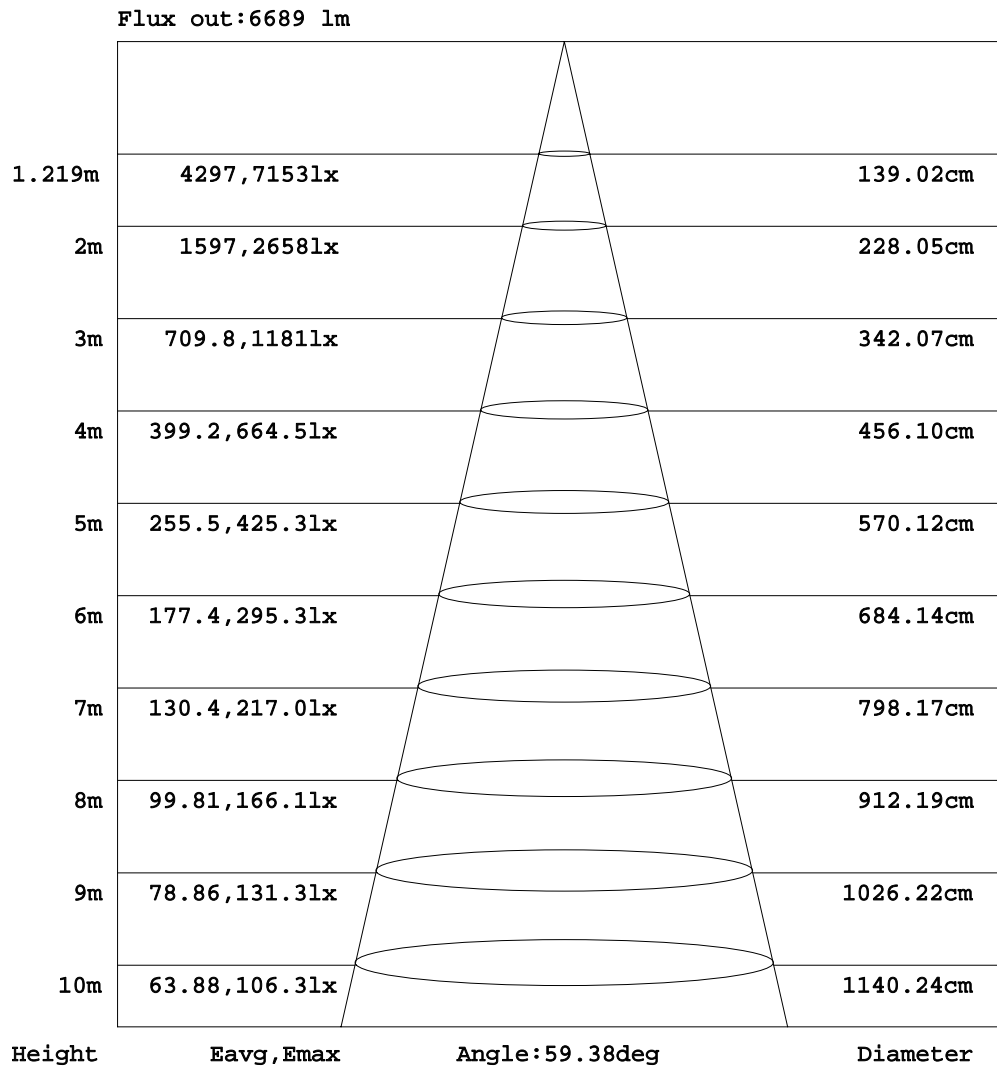


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



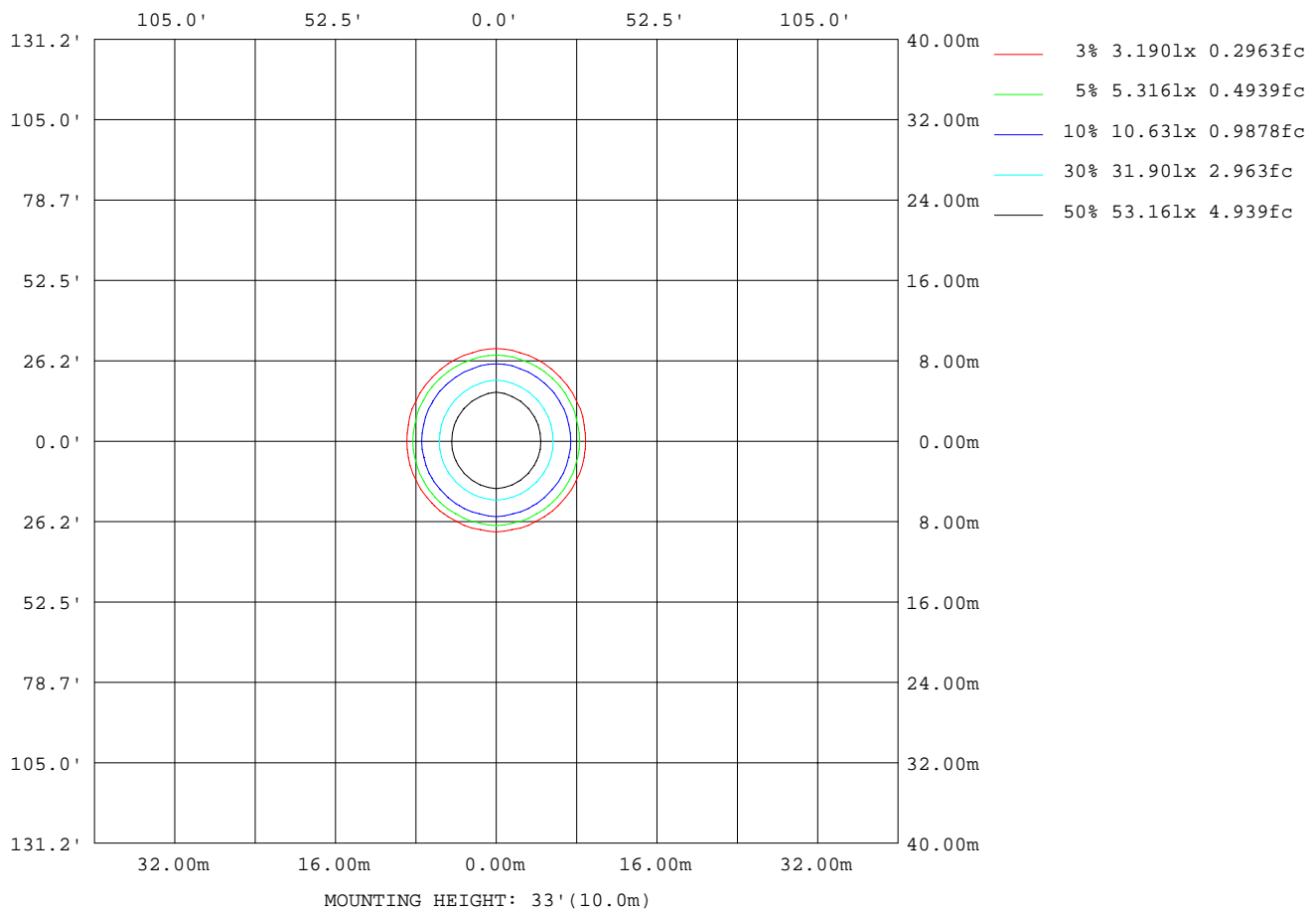
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	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:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

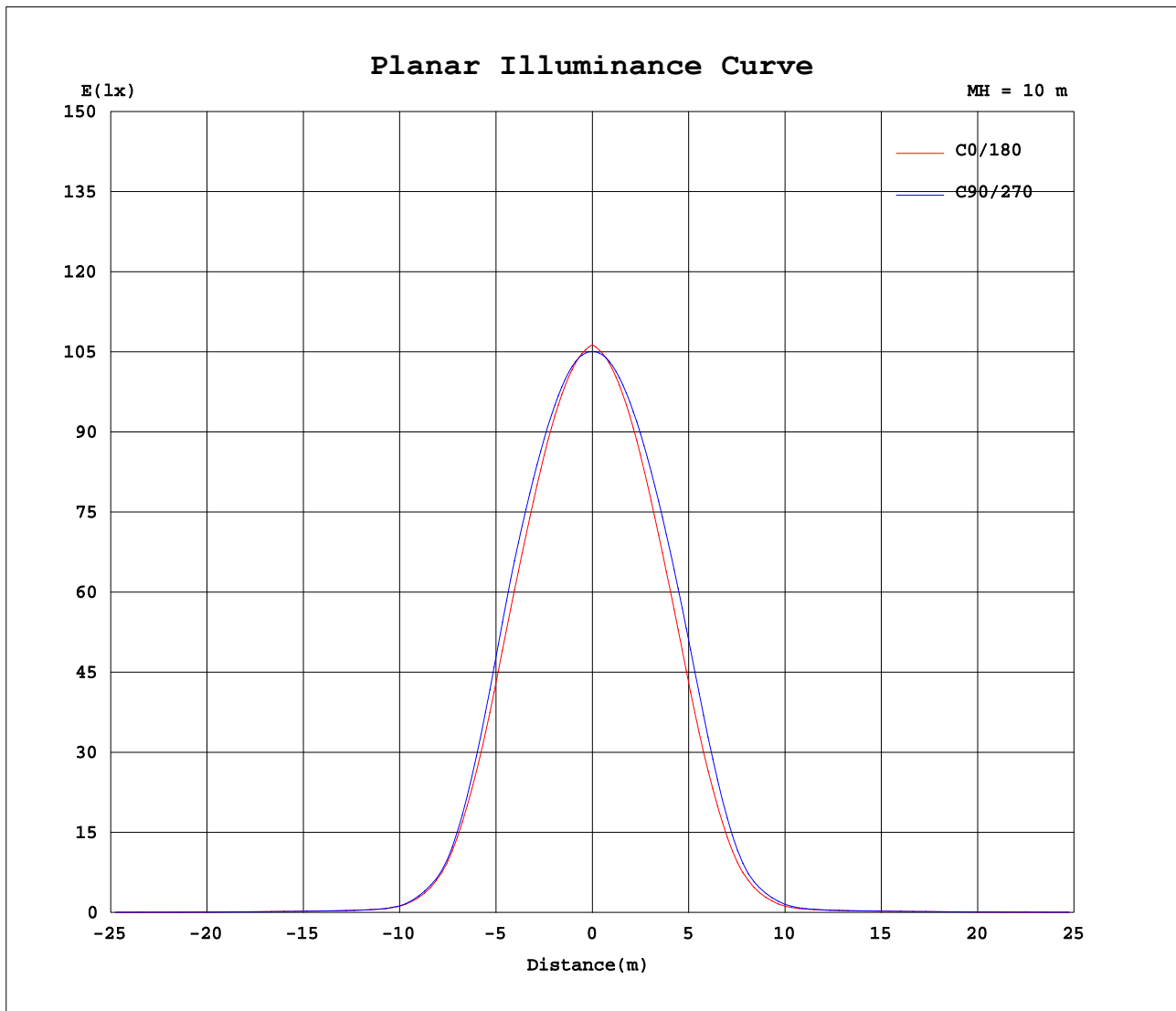
AvgL	cd/m2
L_0~180 (65) av	2879
L_0~180 (75) av	2056
L_0~180 (85) av	161
L_90~270 (65) av	2865
L_90~270 (75) av	2210
L_90~270 (85) av	242
L_45 (65) av	2866
L_45 (75) av	2143
L_45 (85) av	181

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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: 2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	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	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052
5	1030	1030	1030	1031	1032	1034	1036	1039	1042	1045	1042	1039	1036	1034	1032	1031	1030	1030	1030
10	986	986	985	987	989	993	996	1002	1008	1015	1008	1002	996	993	989	987	985	986	986
15	911	913	913	918	920	927	933	942	949	961	949	942	933	927	920	918	913	913	911
20	804	808	809	816	821	832	840	853	861	875	861	853	840	832	821	816	809	808	804
25	654	659	659	668	672	684	692	707	715	732	715	707	692	684	672	668	659	659	654
30	458	464	462	469	469	479	482	495	500	515	500	495	482	479	469	469	462	464	458
35	254	259	253	258	254	261	258	266	266	277	266	266	258	261	254	258	253	259	254
40	103	105	103	105	103	106	105	110	111	114	111	110	105	106	103	105	103	105	103
45	33.7	33.8	32.7	32.8	31.2	31.8	31.5	33.2	33.2	35.1	33.2	33.2	31.5	31.8	31.2	32.8	32.7	33.8	33.7
50	18.0	17.8	17.4	17.2	16.9	16.7	16.6	16.9	17.1	17.6	17.1	16.9	16.6	16.7	16.9	17.2	17.4	17.8	18.0
55	15.3	15.1	15.0	14.8	14.7	14.5	14.4	14.4	14.5	14.8	14.5	14.4	14.4	14.5	14.7	14.8	15.0	15.1	15.3
60	14.2	13.9	13.7	13.4	13.1	13.1	12.9	12.8	12.8	12.9	12.8	12.8	12.9	13.1	13.1	13.4	13.7	13.9	14.2
65	12.2	11.9	11.5	11.1	10.9	10.9	10.7	10.7	10.6	10.6	10.6	10.7	10.7	10.9	10.9	11.1	11.5	11.9	12.2
70	9.06	8.71	8.35	8.22	7.93	7.90	7.58	7.69	7.66	7.67	7.66	7.69	7.58	7.90	7.93	8.22	8.35	8.71	9.06
75	5.32	5.16	4.83	4.83	4.61	4.58	4.40	4.56	4.56	4.34	4.56	4.56	4.40	4.58	4.61	4.83	4.83	5.16	5.32
80	1.85	1.80	1.66	1.68	1.64	1.64	1.55	1.62	1.59	1.62	1.59	1.62	1.55	1.64	1.64	1.68	1.66	1.80	1.85
85	0.14	0.14	0.12	0.13	0.11	0.12	0.11	0.13	0.12	0.15	0.12	0.13	0.11	0.12	0.11	0.13	0.12	0.14	0.14
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:2018-04-14

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:220.3V I:0.2897A P:63.60W PF:0.9728 Freq:49.99Hz Lamp Flux:9078.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

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	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052		
5	1032	1033	1034	1036	1037	1040	1041	1044	1046	1044	1041	1040	1037	1036	1034	1033	1032		
10	989	992	994	999	1002	1007	1011	1016	1020	1016	1011	1007	1002	999	994	992	989		
15	918	922	926	933	939	948	955	965	973	965	955	948	939	933	926	922	918		
20	811	817	821	831	840	854	866	881	894	881	866	854	840	831	821	817	811		
25	664	672	677	690	700	718	732	753	768	753	732	718	700	690	677	672	664		
30	466	475	478	493	502	523	535	557	570	557	535	523	502	493	478	475	466		
35	261	267	269	280	283	297	301	316	323	316	301	297	283	280	269	267	261		
40	106	110	111	114	117	121	124	128	128	128	124	121	117	114	111	110	106		
45	34.7	36.2	35.6	37.6	38.6	41.6	41.6	43.8	44.0	43.8	41.6	41.6	38.6	37.6	35.6	36.2	34.7		
50	17.9	18.1	18.1	18.4	18.7	19.2	19.6	19.9	19.8	19.9	19.6	19.2	18.7	18.4	18.1	18.1	17.9		
55	15.4	15.5	15.6	15.6	15.8	16.0	16.3	16.4	16.6	16.4	16.3	16.0	15.8	15.6	15.6	15.5	15.4		
60	14.5	14.7	14.9	14.9	15.1	15.2	15.3	15.3	15.5	15.3	15.3	15.2	15.1	14.9	14.9	14.7	14.5		
65	12.3	12.6	12.9	13.2	13.4	13.7	13.7	13.8	13.6	13.8	13.7	13.7	13.4	13.2	12.9	12.6	12.3		
70	9.07	9.55	9.84	10.3	10.4	10.7	11.0	11.0	10.7	11.0	11.0	10.7	10.4	10.3	9.84	9.55	9.07		
75	5.33	5.70	5.94	6.35	6.63	6.88	7.20	7.60	7.10	7.60	7.20	6.88	6.63	6.35	5.94	5.70	5.33		
80	1.86	2.01	2.08	2.21	2.36	2.56	2.68	3.02	2.96	3.02	2.68	2.56	2.36	2.21	2.08	2.01	1.86		
85	0.13	0.16	0.16	0.20	0.20	0.24	0.24	0.27	0.27	0.27	0.24	0.24	0.20	0.20	0.16	0.16	0.13		
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:2018-04-14

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: