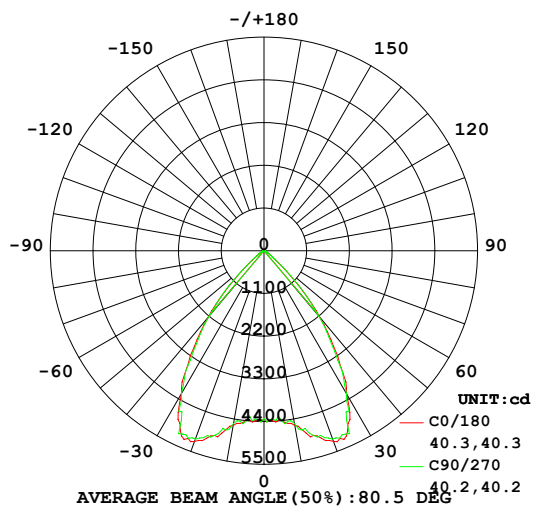


LUMINAIRE PHOTOMETRIC TEST REPORT

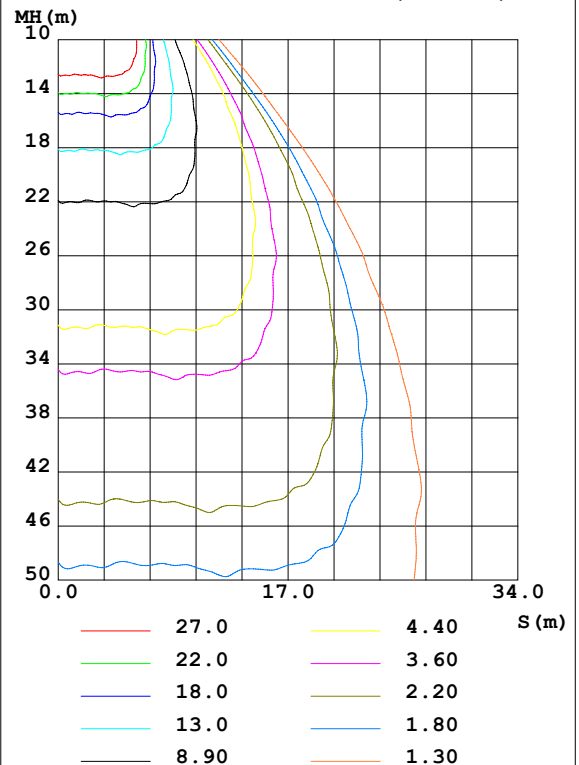
Test:U:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.97 lm/W			
MODEL	3030	I _{max} (cd)	5304	S/MH (C0/180)	1.17
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	7330.6	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	7330.58	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	1.10

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	4569	4526	4515	4526	4569	4526	4515	4526	0- 10	422.7	422.7	5.77,5.77
20	5224	5242	5164	5242	5224	5242	5164	5242	10- 20	1404	1827	24.9,24.9
30	4248	4106	4253	4106	4248	4106	4253	4106	20- 30	2261	4088	55.8,55.8
40	2205	2050	2203	2050	2205	2050	2203	2050	30- 40	1958	6046	82.5,82.5
50	486.7	465.7	508.0	465.7	486.7	465.7	508.0	465.7	40- 50	921.7	6968	95,95
60	128.2	119.3	127.1	119.3	128.2	119.3	127.1	119.3	50- 60	213.3	7181	98,98
70	57.94	56.34	58.18	56.34	57.94	56.34	58.18	56.34	60- 70	82.58	7264	99.1,99.1
80	28.85	28.13	29.51	28.13	28.85	28.13	29.51	28.13	70- 80	43.95	7307	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	23.12	7331	100,100
100	0	0	0	0	0	0	0	0	90-100	0	7331	100,100
110	0	0	0	0	0	0	0	0	100-110	0	7331	100,100
120	0	0	0	0	0	0	0	0	110-120	0	7331	100,100
130	0	0	0	0	0	0	0	0	120-130	0	7331	100,100
140	0	0	0	0	0	0	0	0	130-140	0	7331	100,100
150	0	0	0	0	0	0	0	0	140-150	0	7331	100,100
160	0	0	0	0	0	0	0	0	150-160	0	7331	100,100
170	0	0	0	0	0	0	0	0	160-170	0	7331	100,100
180	0	0	0	0	0	0	0	0	170-180	0	7331	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6651 lm

%lum = 90.7%

%lamp = 90.7%

Conical surface Flux(120deg): 7180.9 lm

%lum = 98.0%

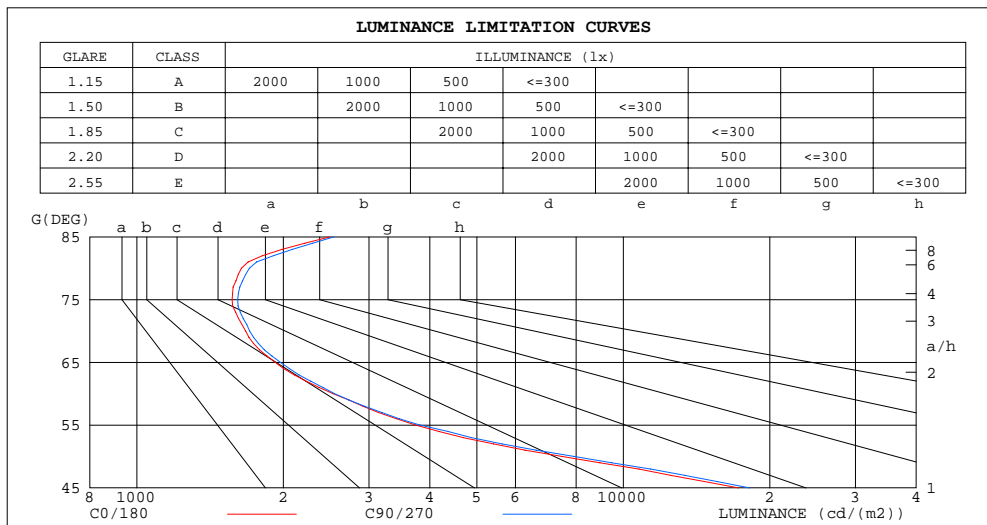
%lamp = 98.0%

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

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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-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	2496	2543
80	1640	1703
75	1569	1612
70	1672	1705
65	1925	1972
60	2532	2549
55	3741	3819
50	7475	7921
45	17262	18184

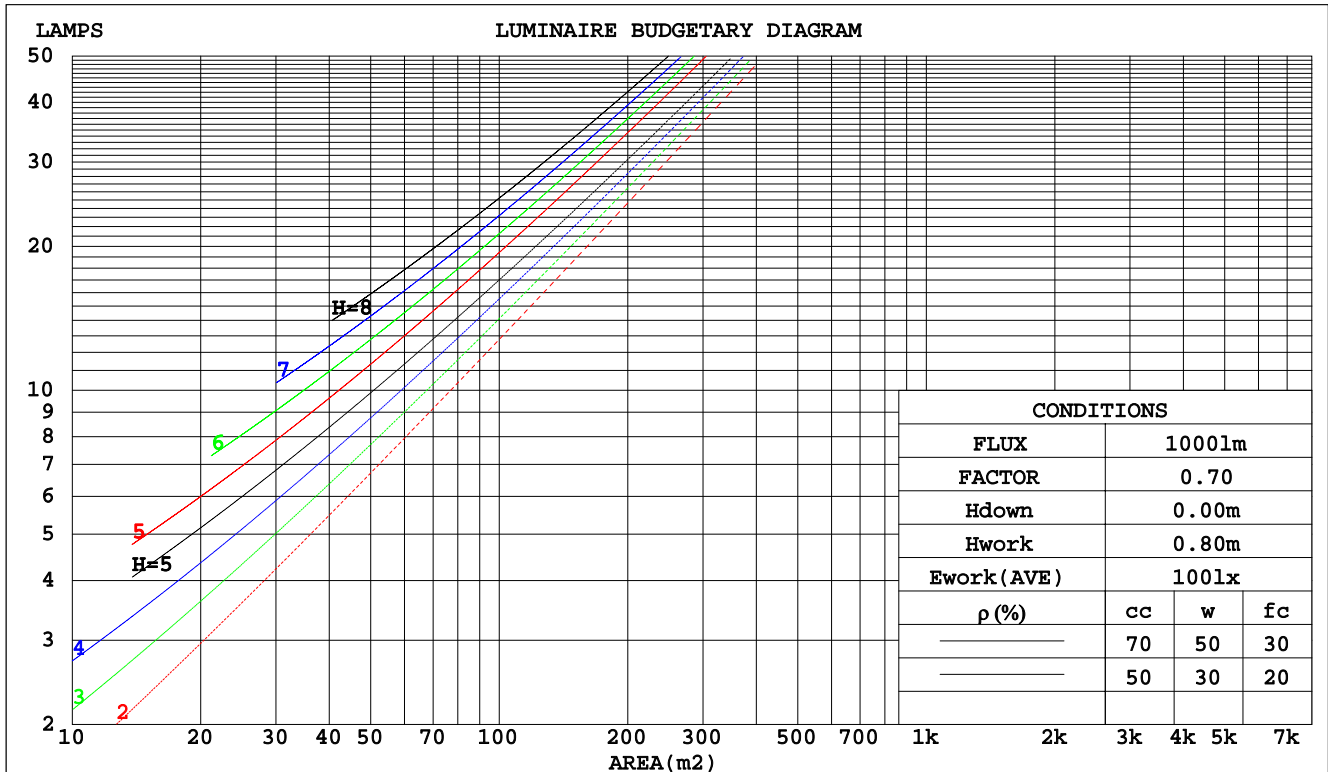
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-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	1.09	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.00	.96	.92	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83
3.0	.92	.87	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.78	.76
4.0	.85	.79	.74	.84	.78	.73	.82	.77	.73	.80	.75	.72	.78	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.65	.61	.70	.65	.60	.69	.64	.60	.67	.63	.59	.58
7.0	.67	.61	.56	.67	.60	.56	.65	.60	.55	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.51	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.50	.49
9.0	.58	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.47	.44	.52	.47	.43	.52	.47	.43	.42



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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-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	.203	.115	.037	.196	.112	.036	.183	.105	.034	.172	.099	.032	.161	.093	.030	
2.0	.195	.107	.033	.190	.105	.032	.179	.099	.031	.169	.095	.030	.160	.090	.028	
3.0	.187	.099	.030	.182	.097	.029	.172	.093	.028	.164	.090	.028	.156	.086	.027	
4.0	.178	.092	.027	.174	.091	.027	.165	.088	.026	.158	.085	.026	.151	.082	.025	
5.0	.169	.086	.025	.166	.085	.025	.158	.083	.024	.152	.080	.024	.146	.078	.023	
6.0	.161	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.140	.074	.022	
7.0	.154	.076	.022	.151	.075	.021	.145	.073	.021	.140	.072	.021	.135	.070	.021	
8.0	.147	.072	.020	.144	.071	.020	.139	.070	.020	.134	.068	.020	.130	.067	.019	
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.019	.125	.064	.018	
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.159	.132	.110	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:2.9KG		
SPEC.:AOK-60WoH-3030-90D-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	11.5	12.6	11.8	12.8	13.0	11.5	12.6	11.7	12.8	13.0
3H	11.4	12.4	11.7	12.6	12.9	11.4	12.4	11.7	12.6	12.8
4H	11.4	12.3	11.7	12.6	12.8	11.3	12.3	11.6	12.5	12.8
6H	11.3	12.2	11.6	12.5	12.7	11.3	12.2	11.6	12.4	12.7
8H	11.3	12.2	11.6	12.4	12.7	11.3	12.1	11.6	12.4	12.7
12H	11.3	12.1	11.6	12.4	12.7	11.3	12.1	11.6	12.4	12.6
4H 2H	11.3	12.3	11.6	12.5	12.7	11.3	12.2	11.6	12.5	12.7
3H	11.2	12.1	11.6	12.3	12.6	11.2	12.0	11.5	12.3	12.6
4H	11.2	11.9	11.6	12.2	12.6	11.2	11.9	11.5	12.2	12.5
6H	11.2	11.8	11.6	12.2	12.5	11.2	11.8	11.5	12.2	12.5
8H	11.2	11.8	11.6	12.1	12.5	11.2	11.8	11.6	12.1	12.5
12H	11.2	11.7	11.6	12.1	12.5	11.2	11.7	11.6	12.1	12.5
8H 4H	11.1	11.7	11.5	12.1	12.4	11.1	11.7	11.5	12.0	12.4
6H	11.1	11.6	11.5	12.0	12.4	11.1	11.6	11.5	12.0	12.4
8H	11.1	11.6	11.6	12.0	12.4	11.1	11.6	11.6	12.0	12.4
12H	11.2	11.6	11.7	12.0	12.5	11.2	11.6	11.7	12.0	12.5
12H 4H	11.1	11.6	11.5	12.0	12.4	11.0	11.6	11.4	12.0	12.4
6H	11.1	11.5	11.5	11.9	12.4	11.1	11.5	11.5	11.9	12.4
8H	11.1	11.5	11.6	11.9	12.4	11.1	11.5	11.6	11.9	12.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 6.1					+ 2.2 / - 6.0				
1.5H	+ 4.0 / - 5.8					+ 3.8 / - 5.8				
2.0H	+ 5.8 / - 3.8					+ 6.1 / - 3.9				

CIE Pub.117, 7331 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.9$)

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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:

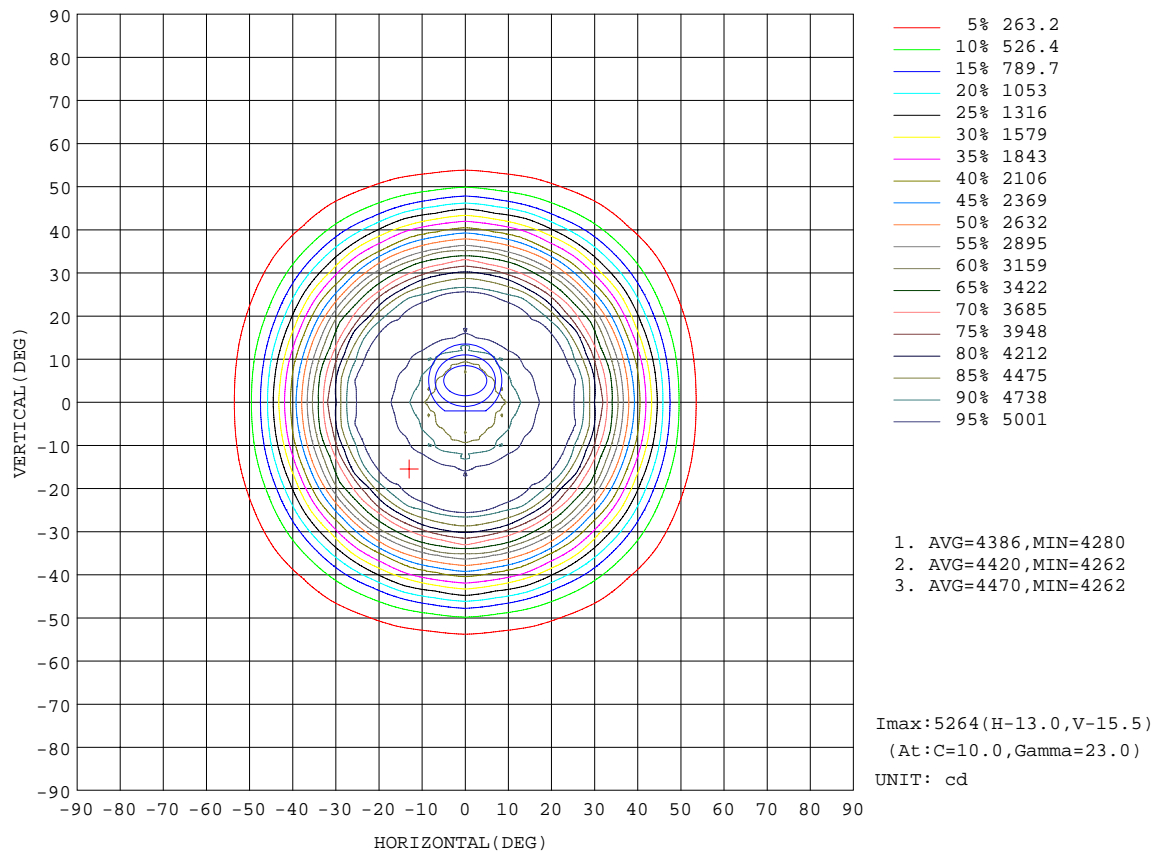
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	80	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	82	77	87	81	77	72
1.00	95	88	84	94	88	84	92	88	83	78
1.25	100	93	89	98	93	89	96	92	88	83
1.50	103	97	93	102	96	93	99	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	100	107	103	100	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{M}$	Shielding Angle:

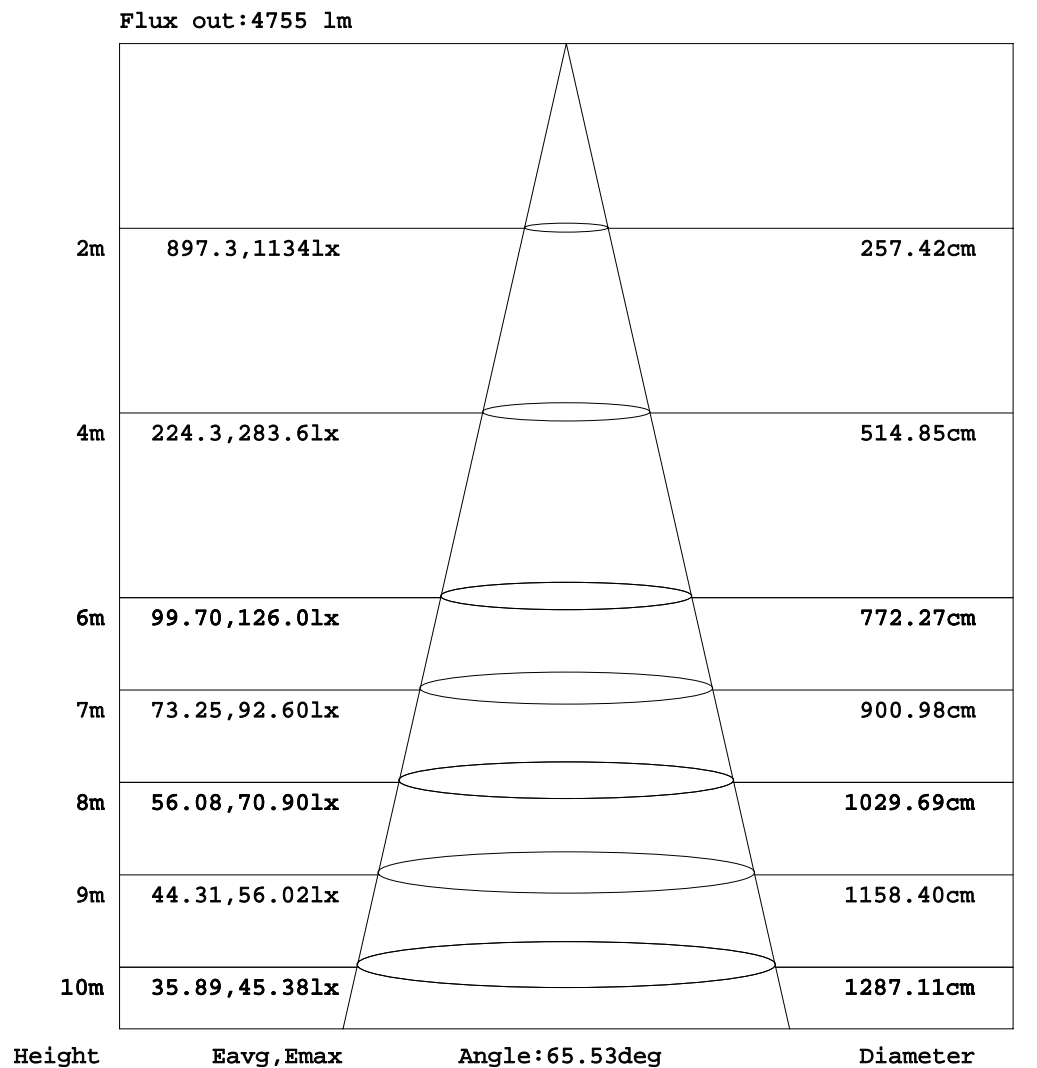


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-03

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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-PC-ALL	DIM.: $\phi 0.248 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16M$	Shielding Angle:



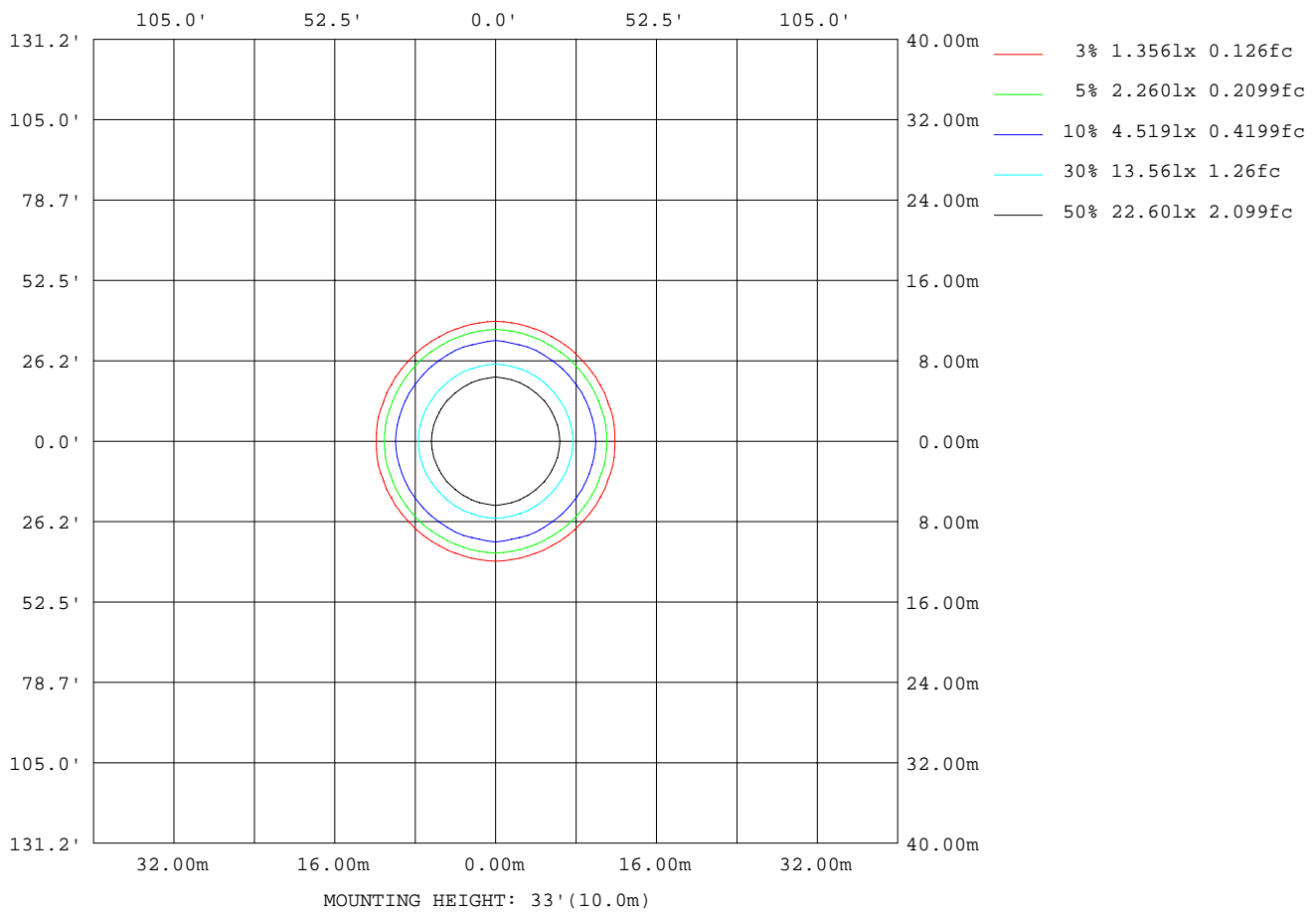
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-PC-ALL	DIM.: ϕ 0.248*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16M	Shielding Angle:

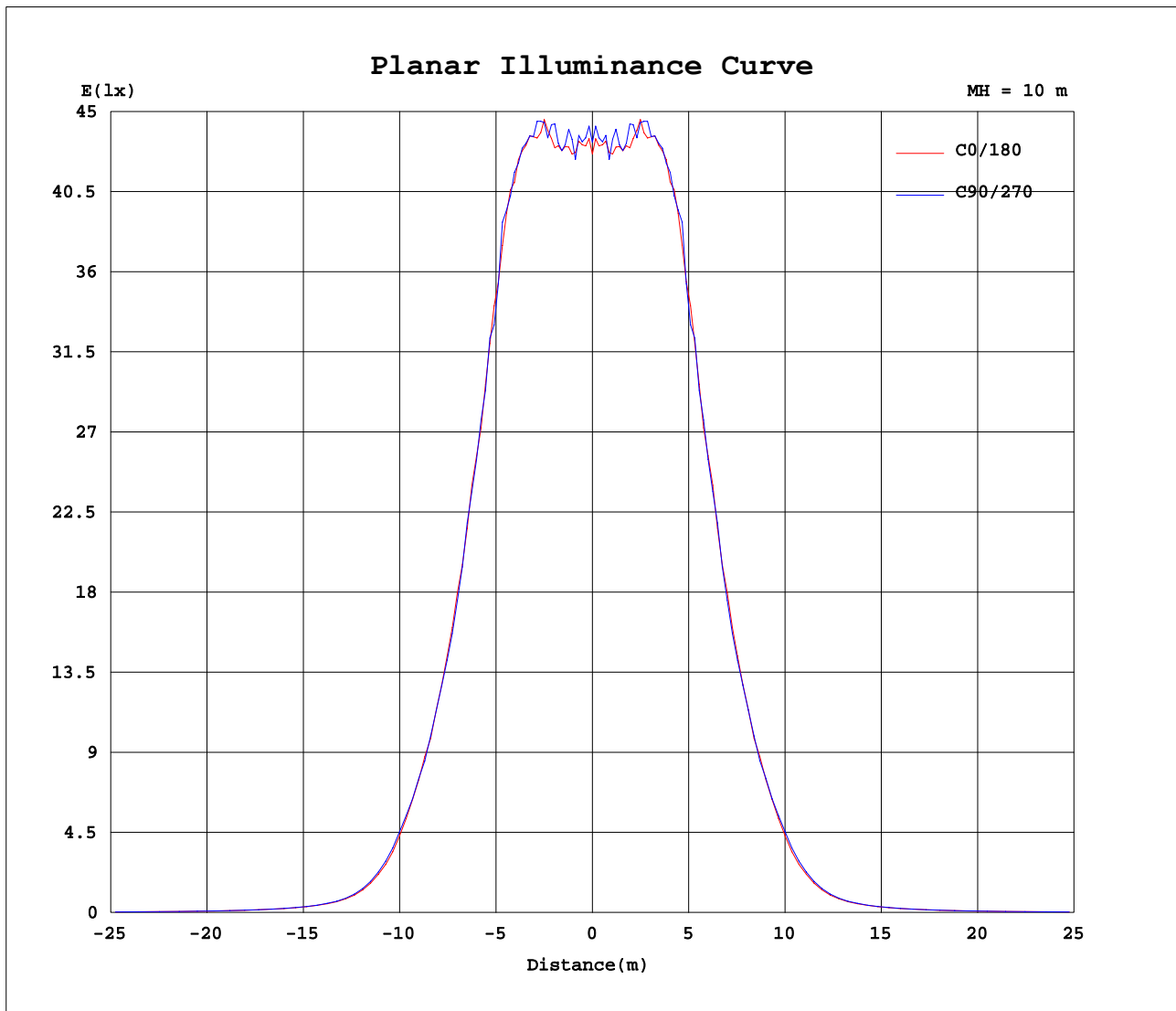
AvgL	cd/m2
L_0~180 (65) av	1950
L_0~180 (75) av	1590
L_0~180 (85) av	2528
L_90~270 (65) av	1968
L_90~270 (75) av	1608
L_90~270 (85) av	2537
L_45 (65) av	1864
L_45 (75) av	1531
L_45 (85) av	2427

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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-60WoH-3030-90D-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	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318
5	4376	4371	4383	4333	4384	4326	4342	4379	4305	4270	4305	4379	4342	4326	4384	4333	4383	4371	4376
10	4569	4648	4548	4589	4584	4467	4559	4518	4503	4515	4503	4518	4559	4467	4584	4589	4548	4648	4569
15	4926	4957	4901	4865	4940	4962	4921	4968	4977	4921	4977	4968	4921	4962	4940	4865	4901	4957	4926
20	5224	5271	5115	5205	5220	5264	5202	5194	5153	5164	5153	5194	5202	5264	5220	5205	5115	5271	5224
25	5100	5070	5036	5039	5062	4953	4998	4995	5120	5199	5120	4995	4998	4953	5062	5039	5036	5070	5100
30	4248	4372	4220	4294	4070	4142	4115	4201	4201	4253	4201	4201	4115	4142	4070	4294	4220	4372	4248
35	3312	3226	3177	3202	3153	3163	3128	3101	3225	3182	3225	3101	3128	3163	3153	3202	3177	3226	3312
40	2205	2199	2135	2130	2042	2058	1995	2096	2079	2203	2079	2096	1995	2058	2042	2130	2135	2199	2205
45	1236	1220	1160	1147	1128	1138	1136	1197	1181	1283	1181	1197	1136	1138	1128	1147	1160	1220	1236
50	487	496	475	479	460	471	468	479	473	508	473	479	468	471	460	479	475	496	487
55	217	216	213	209	204	207	209	214	213	219	213	214	209	207	204	209	213	216	217
60	128	128	123	122	120	119	123	124	124	127	124	124	123	119	120	122	123	128	128
65	82.4	81.5	79.9	80.7	79.0	78.9	79.9	81.1	79.0	83.2	79.0	81.1	79.9	78.9	79.0	80.7	79.9	81.5	82.4
70	57.9	57.1	57.7	57.9	56.5	56.2	56.6	57.9	56.9	58.2	56.9	57.9	56.6	56.2	56.5	57.9	57.7	57.1	57.9
75	41.1	40.8	40.9	40.8	39.8	39.7	40.4	41.6	41.1	41.6	41.1	41.6	40.4	39.7	39.8	40.8	40.9	40.8	41.1
80	28.8	28.8	28.5	28.8	28.1	28.2	28.6	29.3	29.1	29.5	29.1	29.3	28.6	28.2	28.1	28.8	28.5	28.8	28.8
85	22.0	21.9	21.2	21.2	21.0	21.4	21.5	22.0	21.9	22.1	21.9	22.0	21.5	21.4	21.0	21.2	21.2	21.9	22.0
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:220.2V I:0.2949A P:60.10W PF:0.9730 Freq:49.99Hz Lamp Flux:7330.58x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:2.9KG		
SPEC.:AOK-60WoH-3030-90D-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	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318	4318		
5	4371	4383	4333	4384	4326	4342	4379	4305	4270	4305	4379	4342	4326	4384	4333	4383	4371		
10	4648	4548	4589	4584	4467	4559	4518	4503	4515	4503	4518	4559	4467	4584	4589	4548	4648		
15	4957	4901	4865	4940	4962	4921	4968	4977	4921	4977	4968	4921	4962	4940	4865	4901	4957		
20	5271	5115	5205	5220	5264	5202	5194	5153	5164	5153	5194	5202	5264	5220	5205	5115	5271		
25	5070	5036	5039	5062	4953	4998	4995	5120	5199	5120	4995	4998	4953	5062	5039	5036	5070		
30	4372	4220	4294	4070	4142	4115	4201	4201	4253	4201	4201	4115	4142	4070	4294	4220	4372		
35	3226	3177	3202	3153	3163	3128	3101	3225	3182	3225	3101	3128	3163	3153	3202	3177	3226		
40	2199	2135	2130	2042	2058	1995	2096	2079	2203	2079	2096	1995	2058	2042	2130	2135	2199		
45	1220	1160	1147	1128	1138	1136	1197	1181	1283	1181	1197	1136	1138	1128	1147	1160	1220		
50	496	475	479	460	471	468	479	473	508	473	479	468	471	460	479	475	496		
55	216	213	209	204	207	209	214	213	219	213	214	209	207	204	209	213	216		
60	128	123	122	120	119	123	124	124	127	124	124	123	119	120	122	123	128		
65	81.5	79.9	80.7	79.0	78.9	79.9	81.1	79.0	83.2	79.0	81.1	79.9	78.9	79.0	80.7	79.9	81.5		
70	57.1	57.7	57.9	56.5	56.2	56.6	57.9	56.9	58.2	56.9	57.9	56.6	56.2	56.5	57.9	57.7	57.1		
75	40.8	40.9	40.8	39.8	39.7	40.4	41.6	41.1	41.6	41.1	41.6	40.4	39.7	39.8	40.8	40.9	40.8		
80	28.8	28.5	28.8	28.1	28.2	28.6	29.3	29.1	29.5	29.1	29.3	28.6	28.2	28.1	28.8	28.5	28.8		
85	21.9	21.2	21.2	21.0	21.4	21.5	22.0	21.9	22.1	21.9	22.0	21.5	21.4	21.0	21.2	21.2	21.9		
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: