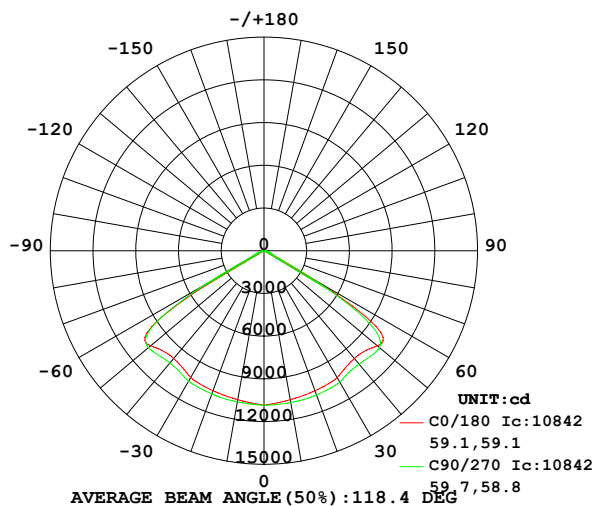


LUMINAIRE PHOTOMETRIC TEST REPORT

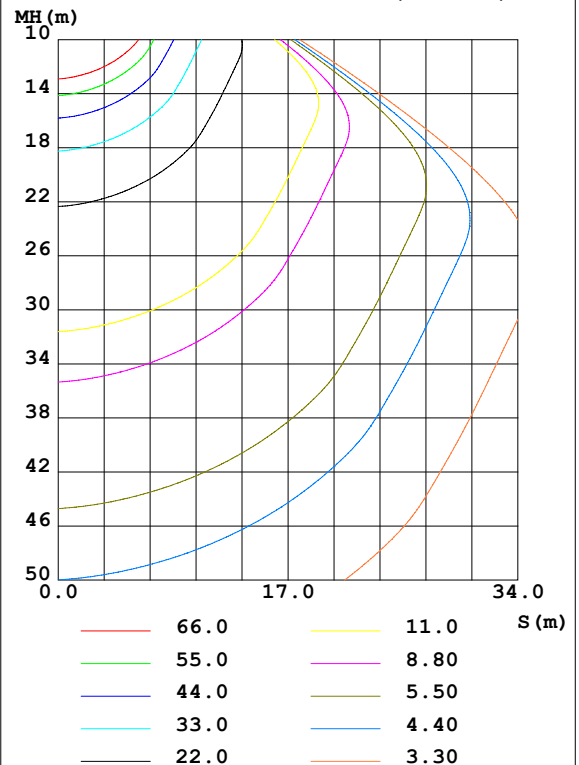
Test:U:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.03 lm/W			
MODEL	3030	I _{max} (cd)	10845	S/MH (C0/180)	1.42
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.47
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	32716	η UP,DN (C0-180)	0.0,49.8
NOMINAL FLUX (lm)	32716.2	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.75

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	1062	1068	1082	1068	1062	1066	1078	1066	0- 10	1025	1025	3.13,3.13
20	1047	1054	1078	1054	1047	1050	1071	1050	10- 20	3008	4033	12.3,12.3
30	1029	1031	1065	1031	1029	1030	1058	1030	20- 30	4846	8878	27.1,27.1
40	988.0	1005	1039	1005	988.0	999.3	1029	999.3	30- 40	6369	15248	46.6,46.6
50	1039	1044	1058	1044	1039	1055	1059	1055	40- 50	7911	23159	70.8,70.8
60	395.4	381.6	382.3	381.6	395.4	454.9	497.2	454.9	50- 60	7970	31129	95.1,95.1
70	48.39	48.81	50.80	48.81	48.39	49.41	51.99	49.41	60- 70	1178	32307	98.7,98.7
80	17.81	17.15	18.54	17.15	17.81	17.88	19.77	17.88	70- 80	353.7	32661	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	55.58	32716	100,100
100	0	0	0	0	0	0	0	0	90-100	0	32716	100,100
110	0	0	0	0	0	0	0	0	100-110	0	32716	100,100
120	0	0	0	0	0	0	0	0	110-120	0	32716	100,100
130	0	0	0	0	0	0	0	0	120-130	0	32716	100,100
140	0	0	0	0	0	0	0	0	130-140	0	32716	100,100
150	0	0	0	0	0	0	0	0	140-150	0	32716	100,100
160	0	0	0	0	0	0	0	0	150-160	0	32716	100,100
170	0	0	0	0	0	0	0	0	160-170	0	32716	100,100
180	0	0	0	0	0	0	0	0	170-180	0	32716	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18986 lm

%lum = 58.0%

%lamp = 58.0%

Conical surface Flux(120deg): 31129 lm

%lum = 95.1%

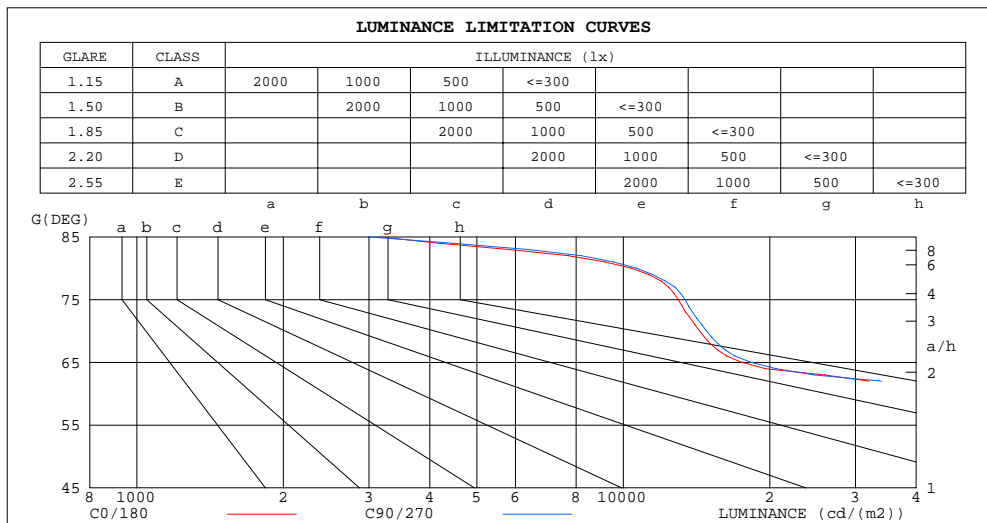
%lamp = 95.1%

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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



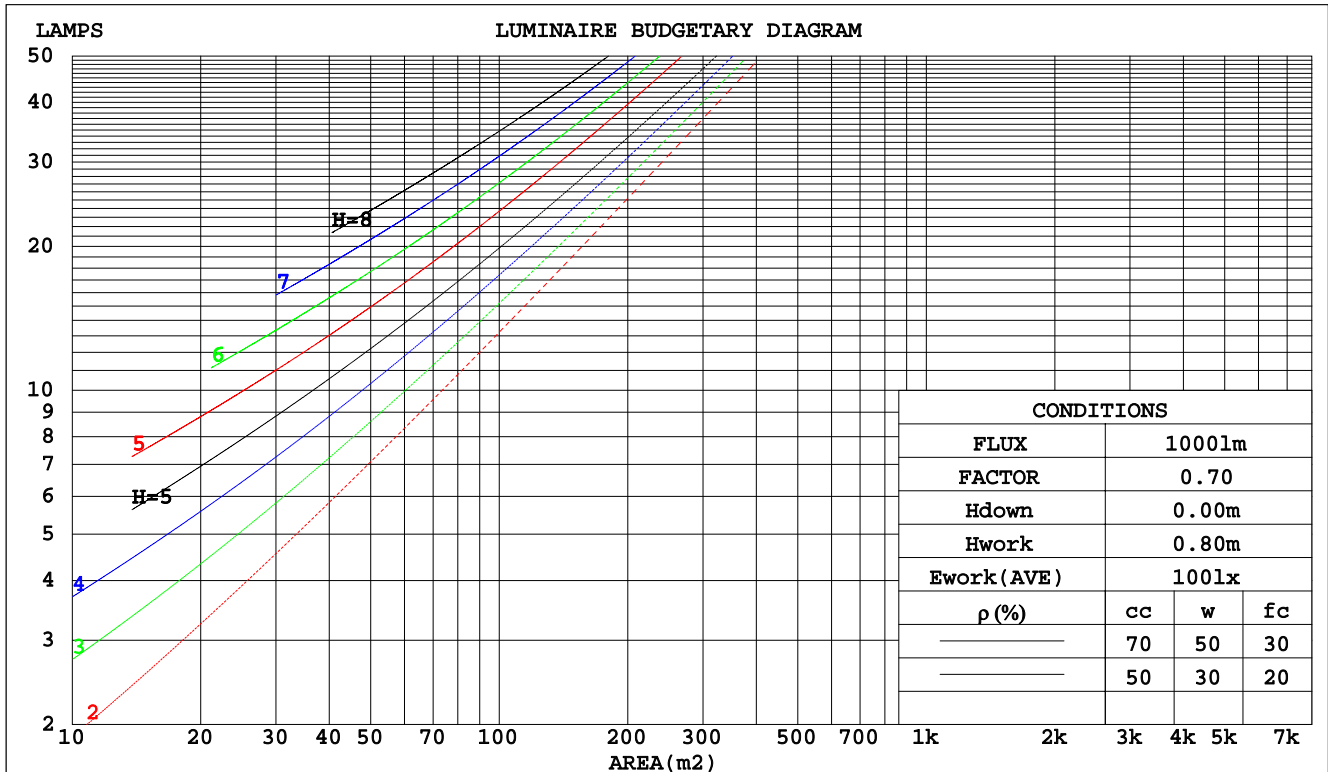
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
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	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.94	.93	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.76	.71	.82	.75	.70	.79	.74	.69	.77	.72	.68	.74	.70	.67	.64
4.0	.74	.66	.60	.73	.66	.60	.71	.64	.59	.68	.63	.58	.66	.61	.57	.55
5.0	.66	.58	.52	.65	.57	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.51	.45	.59	.50	.45	.57	.50	.44	.55	.49	.44	.54	.48	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.36
8.0	.49	.40	.35	.48	.40	.35	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26



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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: ϕ 0.4*0.148M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.253	.144	.046	.246	.141	.045	.233	.134	.043	.221	.128	.041	.210	.122	.039		
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.223	.125	.039	.214	.121	.038		
3.0	.241	.128	.038	.236	.126	.038	.226	.122	.037	.217	.119	.036	.208	.115	.036		
4.0	.229	.119	.035	.224	.117	.035	.216	.114	.034	.207	.111	.034	.200	.108	.033		
5.0	.216	.110	.032	.212	.109	.032	.204	.106	.031	.197	.104	.031	.190	.102	.031		
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.186	.097	.028	.180	.095	.028		
7.0	.192	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.171	.089	.026		
8.0	.181	.088	.025	.178	.088	.025	.172	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021		

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	.176	.157	.139	.151	.134	.119	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.159	.114	.078	.136	.098	.068	.094	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.061	.130	.087	.053	.090	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm											
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG			
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D					DIM.: ϕ 0.4*0.148M			SERIAL No.:			
MFR.: AOK					SUR.: ϕ 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	18.3	19.7	18.5	19.9	20.1	18.0	19.5	18.3	19.7	19.9	
	3H	18.1	19.4	18.4	19.6	19.9	17.9	19.2	18.2	19.4	19.7
	4H	18.0	19.2	18.3	19.5	19.7	17.8	19.0	18.1	19.3	19.5
	6H	17.9	19.1	18.2	19.3	19.6	17.7	18.9	18.0	19.1	19.4
	8H	17.9	19.0	18.2	19.3	19.5	17.7	18.8	18.0	19.1	19.3
	12H	17.8	18.9	18.2	19.2	19.5	17.6	18.7	18.0	19.0	19.3
4H	2H	18.2	19.5	18.5	19.7	20.0	18.1	19.3	18.4	19.5	19.8
	3H	18.1	19.2	18.4	19.4	19.7	17.9	19.0	18.3	19.3	19.6
	4H	18.0	19.0	18.4	19.3	19.6	17.8	18.8	18.2	19.1	19.4
	6H	18.0	18.8	18.4	19.1	19.5	17.8	18.6	18.2	19.0	19.3
	8H	17.9	18.7	18.3	19.1	19.4	17.7	18.5	18.2	18.9	19.3
	12H	17.9	18.6	18.3	19.0	19.4	17.7	18.4	18.1	18.8	19.2
8H	4H	17.9	18.7	18.3	19.0	19.4	17.7	18.5	18.1	18.9	19.2
	6H	17.9	18.5	18.3	18.9	19.3	17.7	18.3	18.1	18.7	19.1
	8H	17.8	18.4	18.3	18.8	19.2	17.7	18.2	18.1	18.6	19.1
	12H	17.8	18.3	18.3	18.7	19.2	17.6	18.1	18.1	18.5	19.0
12H	4H	17.9	18.6	18.3	19.0	19.4	17.7	18.4	18.1	18.8	19.2
	6H	17.8	18.4	18.3	18.8	19.2	17.6	18.2	18.1	18.6	19.1
	8H	17.8	18.3	18.3	18.7	19.2	17.6	18.1	18.1	18.5	19.0
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.5					+ 1.0 / - 1.0					
1.5H	+ 2.1 / - 3.4					+ 1.8 / - 3.1					
2.0H	+ 2.2 / -10.2					+ 2.2 / -10.0					

CIE Pub.117, 32716 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 12.1$)

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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

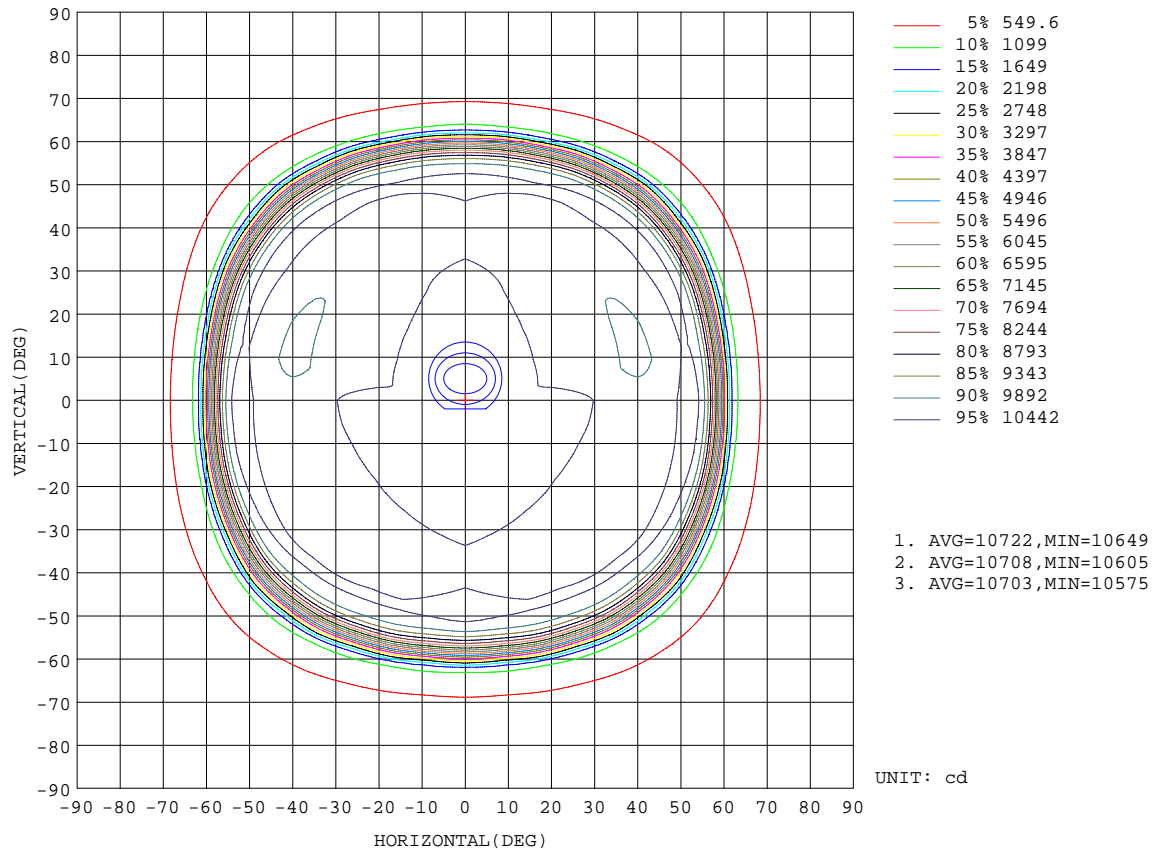
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	68	57	50	67	56	49	66	56	49	42
1.00	79	69	62	78	68	62	76	69	61	54
1.25	87	78	71	86	77	71	83	75	70	63
1.50	92	83	77	91	83	77	88	81	76	69
2.00	99	92	86	97	91	86	94	88	84	77
2.50	102	95	90	100	94	89	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	102	108	104	100	103	100	97	88
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:2018-04-14

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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

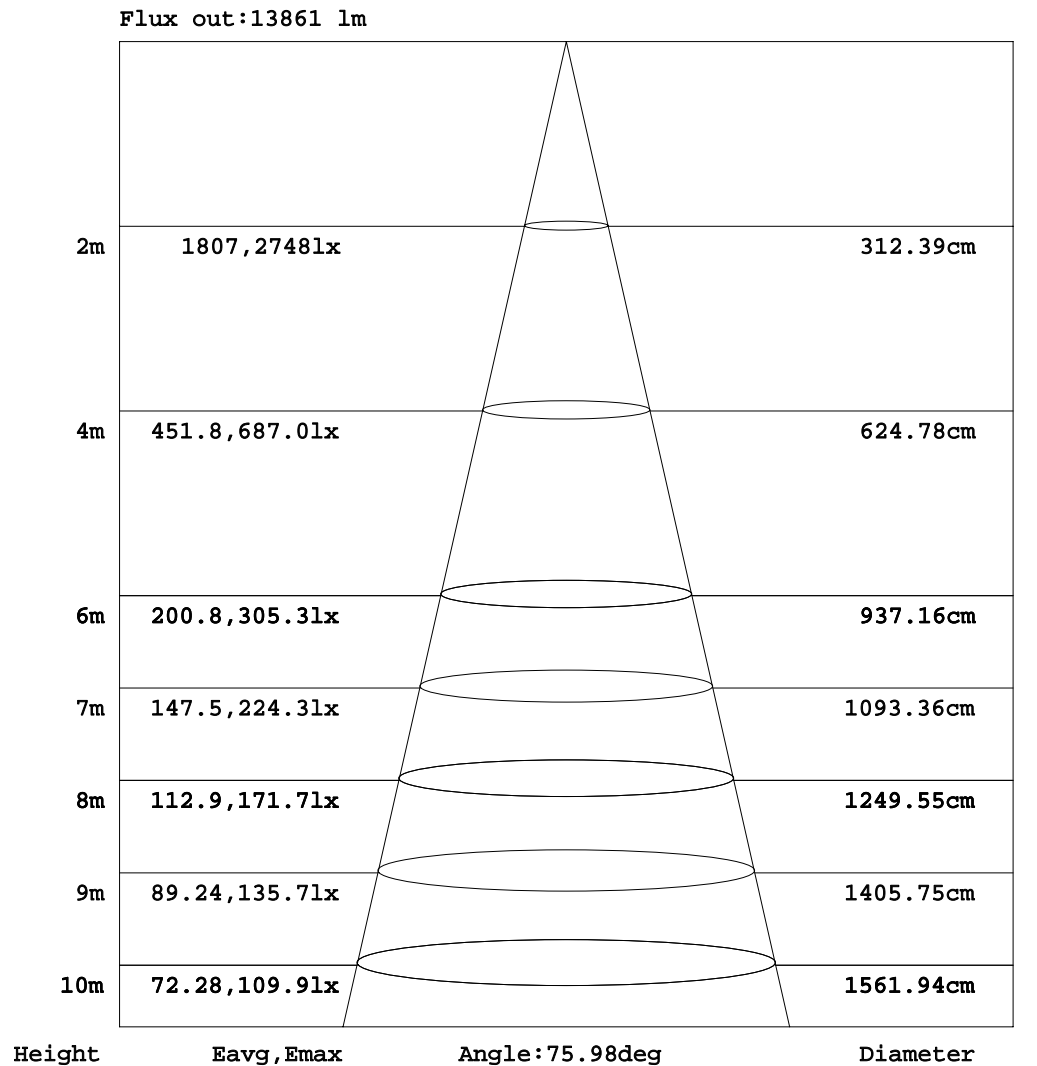


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



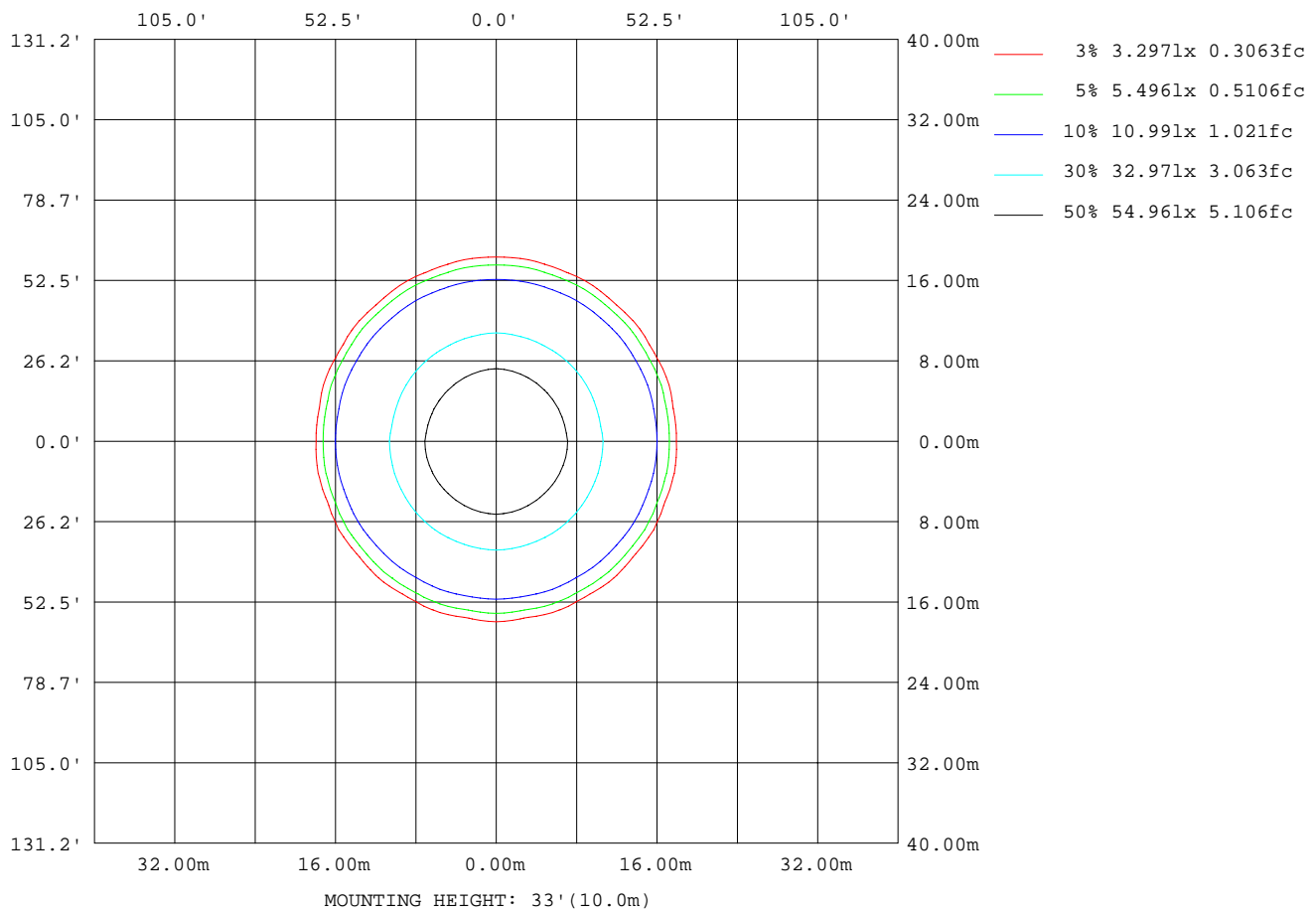
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date: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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
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: 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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: ϕ 0.4*0.148M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

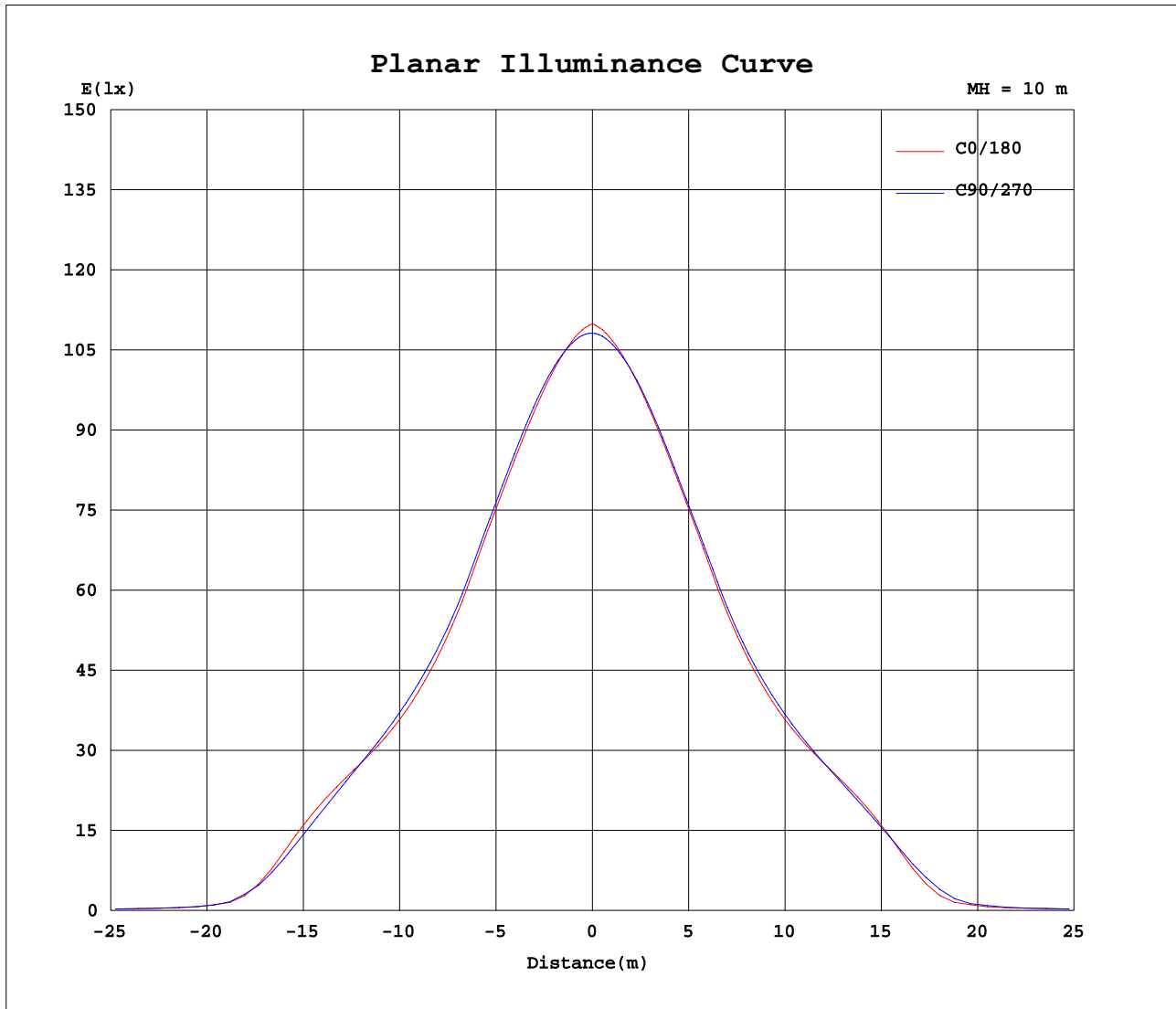
AvgL	cd/m2
L_0~180 (65) av	17265
L_0~180 (75) av	12792
L_0~180 (85) av	3100
L_90~270 (65) av	19228
L_90~270 (75) av	13515
L_90~270 (85) av	3265
L_45 (65) av	17963
L_45 (75) av	12781
L_45 (85) av	3038

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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D	DIM.: $\phi 0.4 \times 0.148M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT: $\times 10cd$

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084
5	1073	1073	1074	1074	1076	1077	1079	1080	1082	1084	1082	1080	1079	1077	1076	1074	1074	1073	1073
10	1062	1062	1064	1065	1067	1069	1072	1075	1078	1082	1078	1075	1072	1069	1067	1065	1064	1062	1062
15	1053	1054	1056	1058	1060	1063	1067	1071	1076	1081	1076	1071	1067	1063	1060	1058	1056	1054	1053
20	1047	1047	1048	1050	1052	1056	1060	1066	1071	1078	1071	1066	1060	1056	1052	1050	1048	1047	1047
25	1039	1040	1041	1043	1045	1049	1053	1059	1065	1073	1065	1059	1053	1049	1045	1043	1041	1040	1039
30	1029	1030	1028	1028	1028	1033	1038	1046	1055	1065	1055	1046	1038	1033	1028	1028	1028	1030	1029
35	1000	1002	1002	1004	1006	1009	1017	1025	1033	1042	1033	1025	1017	1009	1006	1004	1002	1002	1000
40	988	990	992	995	1001	1008	1014	1022	1030	1039	1030	1022	1014	1008	1001	995	992	990	988
45	998	1000	1003	1006	1016	1024	1030	1034	1043	1052	1043	1034	1030	1024	1016	1006	1003	1000	998
50	1039	1039	1039	1039	1044	1045	1046	1047	1050	1058	1050	1047	1046	1045	1044	1039	1039	1039	1039
55	1004	1001	984	982	960	954	938	937	921	929	921	937	938	954	960	982	984	1001	1004
60	395	404	379	396	373	390	368	386	365	382	365	386	368	390	373	396	379	404	395
65	73.0	73.3	72.1	73.5	73.1	74.7	73.8	75.4	75.2	77.5	75.2	75.4	73.8	74.7	73.1	73.5	72.1	73.3	73.0
70	48.4	48.5	47.8	48.4	48.5	49.2	49.4	50.2	50.0	50.8	50.0	50.2	49.4	49.2	48.5	48.4	47.8	48.5	48.4
75	33.1	33.2	32.6	32.8	32.6	33.2	33.1	33.9	34.0	34.8	34.0	33.9	33.1	33.2	32.6	32.8	32.6	33.2	33.1
80	17.8	17.9	17.2	17.4	17.0	17.3	17.2	17.7	17.8	18.5	17.8	17.7	17.2	17.3	17.0	17.4	17.2	17.9	17.8
85	2.70	2.72	2.52	2.57	2.40	2.49	2.39	2.50	2.42	2.62	2.42	2.50	2.39	2.49	2.40	2.57	2.52	2.72	2.70
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:220.2V I:1.115A P:247.8W PF:0.9787 Freq:49.99Hz Lamp Flux:32716.2x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-4000K-Ra80-120D									DIM.: ϕ 0.4*0.148M						SERIAL No.:		
MFR.: AOK									SUR.: ϕ 0.29M						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	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084		
5	1073	1073	1073	1074	1075	1076	1078	1079	1081	1079	1078	1076	1075	1074	1073	1073	1073		
10	1063	1063	1064	1065	1067	1069	1071	1074	1078	1074	1071	1069	1067	1065	1064	1063	1063		
15	1055	1055	1056	1057	1059	1062	1066	1070	1075	1070	1066	1062	1059	1057	1056	1055	1055		
20	1048	1047	1048	1049	1051	1055	1059	1064	1071	1064	1059	1055	1051	1049	1048	1047	1048		
25	1040	1040	1040	1041	1043	1046	1051	1057	1065	1057	1051	1046	1043	1041	1040	1040	1040		
30	1029	1028	1027	1029	1031	1035	1041	1049	1058	1049	1041	1035	1031	1029	1027	1028	1029		
35	1002	1002	1000	1001	1005	1011	1019	1027	1036	1027	1019	1011	1005	1001	1000	1002	1002		
40	989	991	995	998	1001	1004	1011	1019	1029	1019	1011	1004	1001	998	995	991	989		
45	1000	1002	1010	1015	1017	1018	1025	1032	1042	1032	1025	1018	1017	1015	1010	1002	1000		
50	1042	1046	1054	1054	1055	1050	1051	1054	1059	1054	1051	1050	1055	1054	1054	1046	1042		
55	1007	1022	1018	1017	1009	1008	995	992	986	992	995	1008	1009	1017	1018	1022	1007		
60	411	440	429	459	451	482	475	497	497	497	475	482	451	459	429	440	411		
65	73.8	75.1	75.1	78.0	77.8	80.1	80.5	83.4	85.0	83.4	80.5	80.1	77.8	78.0	75.1	75.1	73.8		
70	48.6	49.1	48.8	49.4	49.4	50.3	50.6	51.6	52.0	51.6	50.6	50.3	49.4	49.4	48.8	49.1	48.6		
75	33.2	33.4	33.1	33.4	33.2	34.0	34.2	34.9	35.2	34.9	34.2	34.0	33.2	33.4	33.1	33.4	33.2		
80	17.9	17.9	17.6	17.8	17.9	18.3	18.6	19.2	19.8	19.2	18.6	18.3	17.9	17.8	17.6	17.9	17.9		
85	2.78	2.86	2.80	2.89	2.82	2.93	2.87	2.99	3.07	2.99	2.87	2.93	2.82	2.89	2.80	2.86	2.78		
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		
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: