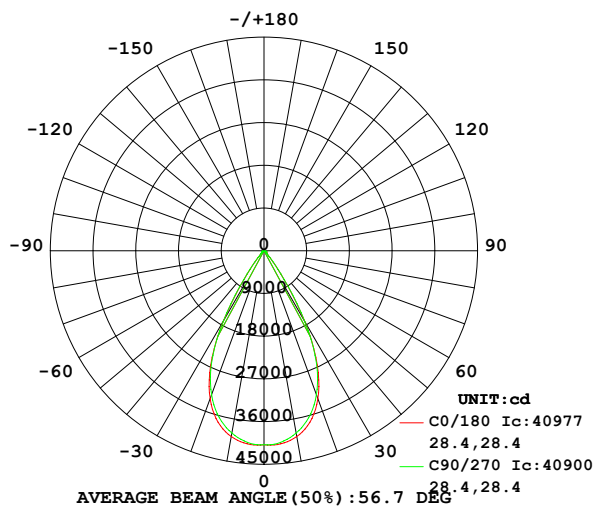


LUMINAIRE PHOTOMETRIC TEST REPORT

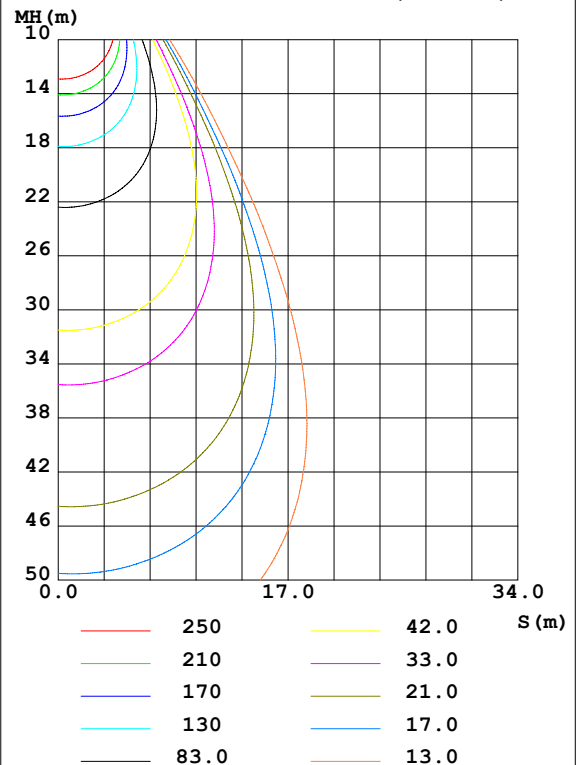
Test:U:220.3V I:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.04 lm/W			
MODEL	3030	I _{max} (cd)	41002	S/MH (C0/180)	0.84
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	0.84
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	33045	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	33044.8	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:2018-04-14

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	3975	3940	3900	3940	3975	3940	3900	3940	0- 10	3844	3844	11.6, 11.6
20	3321	3315	3231	3315	3321	3315	3231	3315	10- 20	10313	14157	42.8, 42.8
30	1715	1725	1726	1725	1715	1725	1726	1725	20- 30	11865	26022	78.7, 78.7
40	243.5	228.6	250.6	228.6	243.5	228.6	250.6	228.6	30- 40	4954	30976	93.7, 93.7
50	69.27	72.72	75.08	72.72	69.27	72.72	75.08	72.72	40- 50	851.9	31828	96.3, 96.3
60	50.13	51.28	53.58	51.28	50.13	51.28	53.58	51.28	50- 60	556.6	32384	98, 98
70	31.02	31.45	32.87	31.45	31.02	31.45	32.87	31.45	60- 70	404.6	32789	99.2, 99.2
80	10.57	10.31	11.77	10.31	10.57	10.31	11.77	10.31	70- 80	226.4	33015	99.9, 99.9
90	0	0	0	0	0	0	0	0	80- 90	29.58	33045	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	33045	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	33045	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	33045	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	33045	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	33045	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	33045	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	33045	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	33045	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	33045	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 31499 lm

%lum = 95.3%

%lamp = 95.3%

Conical surface Flux(120deg): 32384 lm

%lum = 98.0%

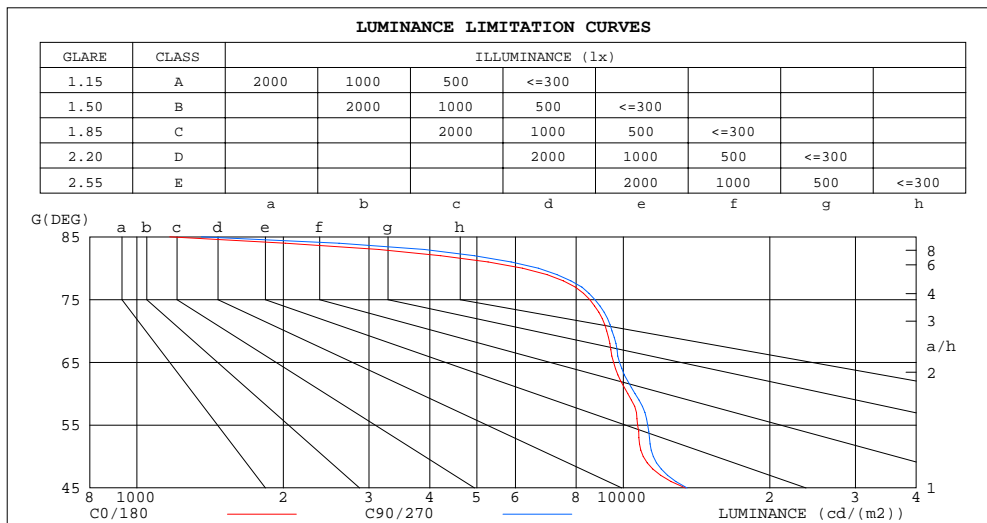
%lamp = 98.0%

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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1168	1358
80	6203	6687
75	8530	8740
70	9243	9479
65	9551	9821
60	10219	10571
55	10700	11219
50	10984	11521
45	13421	13518

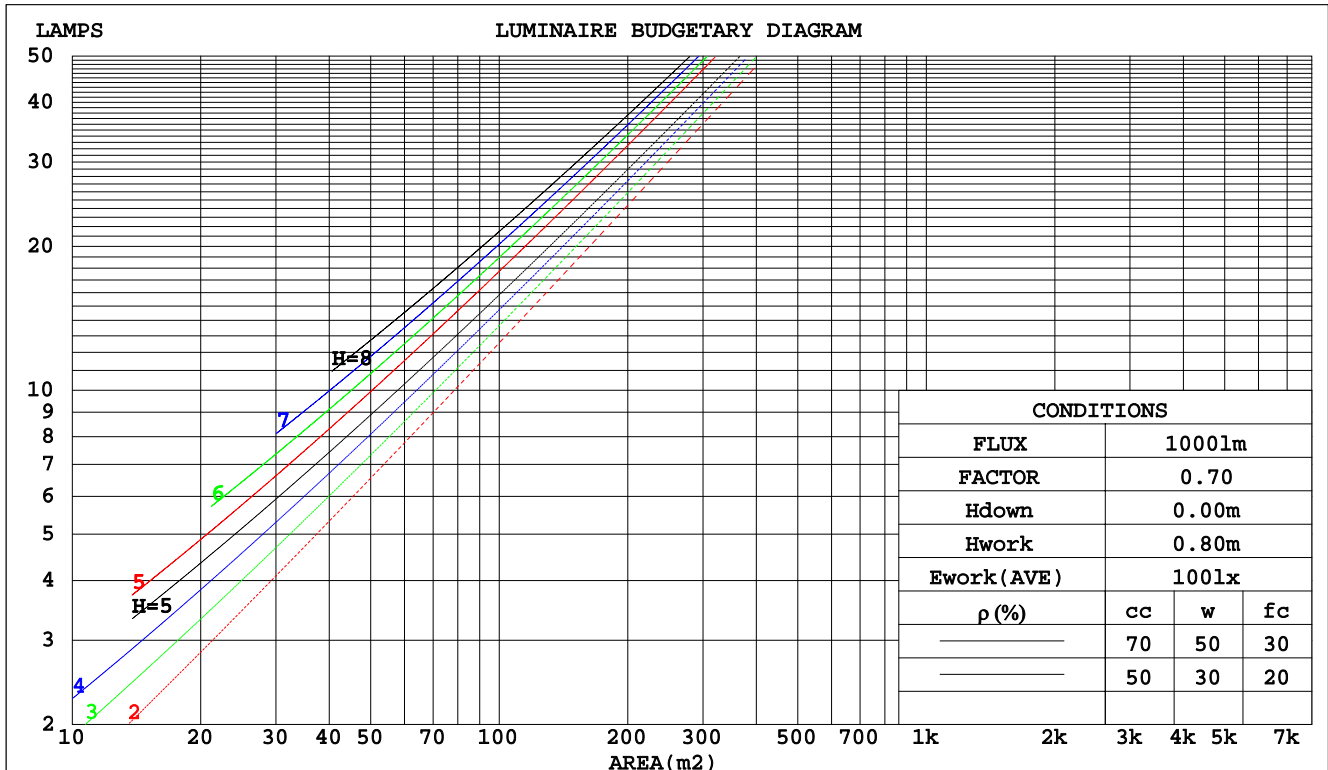
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.09	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	.81
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	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.55	.64	.59	.55	.63	.58	.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:2018-04-14

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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*0.141M	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	.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	.076	.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	.020	
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	.123	.060	.017	.118	.059	.017	.114	.058	.017	.109	.056	.016	
9.0	.120	.058	.016	.118	.057	.016	.113	.056	.016	.109	.055	.016	.106	.054	.016	
10.0	.115	.055	.015	.113	.055	.015	.109	.053	.015	.106	.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:2018-04-14

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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG			
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D					DIM.: ϕ 0.4*0.141M			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		6.6	7.5	6.8	7.7	7.8	6.3	7.3	6.6	7.4	7.6
3H		6.8	7.7	7.1	7.9	8.1	6.6	7.5	6.9	7.7	7.9
4H		7.0	7.8	7.2	8.0	8.2	6.8	7.6	7.0	7.8	8.0
6H		7.0	7.8	7.3	8.0	8.3	6.8	7.6	7.1	7.8	8.1
8H		7.0	7.7	7.3	8.0	8.3	6.8	7.6	7.1	7.8	8.1
12H		7.0	7.7	7.3	7.9	8.2	6.8	7.5	7.1	7.8	8.0
4H 2H		6.5	7.3	6.8	7.6	7.8	6.3	7.1	6.6	7.3	7.6
3H		6.9	7.6	7.2	7.9	8.2	6.7	7.4	7.1	7.7	8.0
4H		7.1	7.8	7.5	8.1	8.4	7.0	7.6	7.3	7.9	8.2
6H		7.3	7.8	7.7	8.2	8.5	7.1	7.7	7.5	8.0	8.4
8H		7.3	7.8	7.7	8.1	8.5	7.1	7.6	7.5	8.0	8.4
12H		7.2	7.7	7.6	8.1	8.5	7.1	7.5	7.5	7.9	8.3
8H 4H		7.2	7.7	7.6	8.0	8.4	7.0	7.5	7.4	7.9	8.2
6H		7.3	7.8	7.8	8.2	8.6	7.2	7.6	7.6	8.0	8.4
8H		7.3	7.7	7.8	8.1	8.6	7.2	7.6	7.6	8.0	8.4
12H		7.3	7.6	7.8	8.1	8.5	7.2	7.5	7.6	7.9	8.4
12H 4H		7.1	7.6	7.5	8.0	8.4	7.0	7.4	7.4	7.8	8.2
6H		7.3	7.7	7.8	8.1	8.5	7.2	7.5	7.6	8.0	8.4
8H		7.3	7.6	7.8	8.1	8.5	7.2	7.5	7.6	7.9	8.4
Variations with the observer position at spacings:											
S = 1.0H		+ 2.1 / - 1.6				+ 2.1 / - 1.4					
1.5H		+ 4.0 / - 1.5				+ 3.9 / - 1.3					
2.0H		+ 0.3 / - 0.3				+ 0.3 / - 0.3					

CIE Pub.117, 33045 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 12.2$)

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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

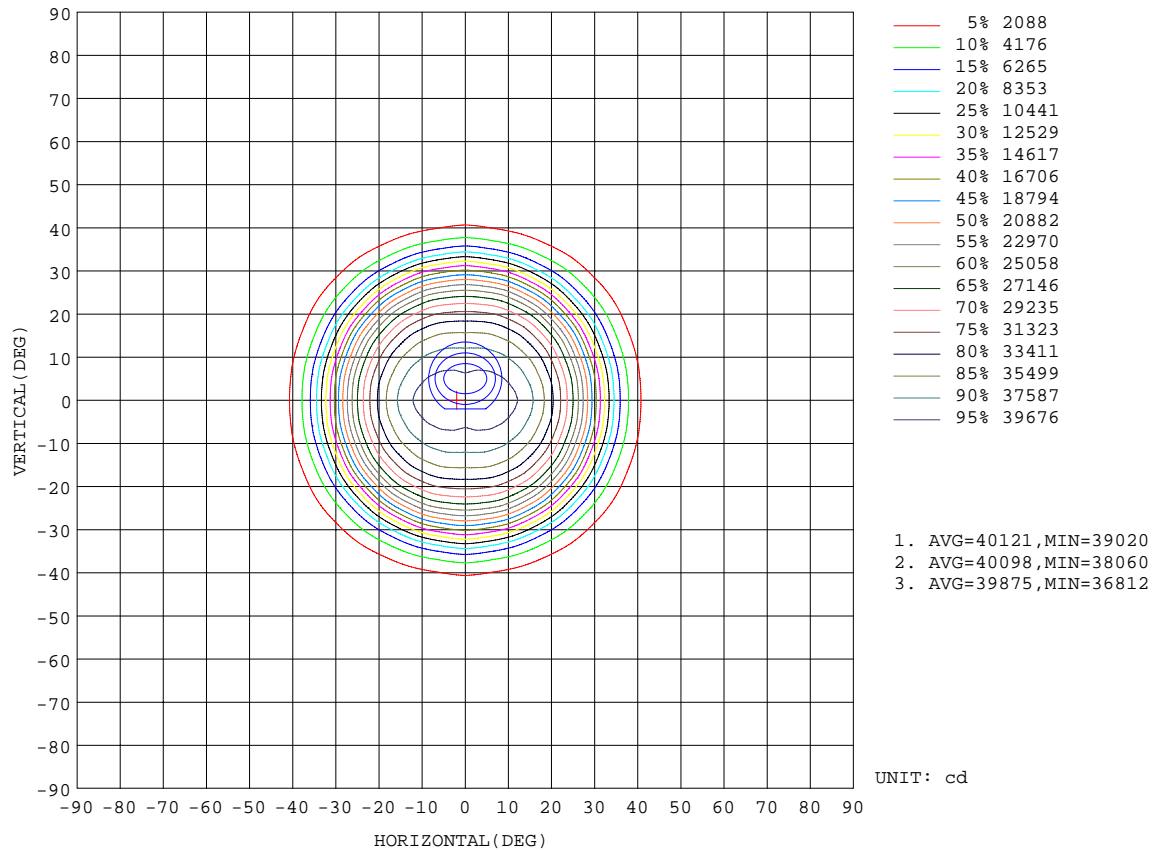
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	81	78	87	81	78	86	81	77	74
0.80	95	89	85	94	89	85	93	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	94
2.50	110	106	103	109	105	102	105	103	100	95
3.00	112	108	106	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					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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

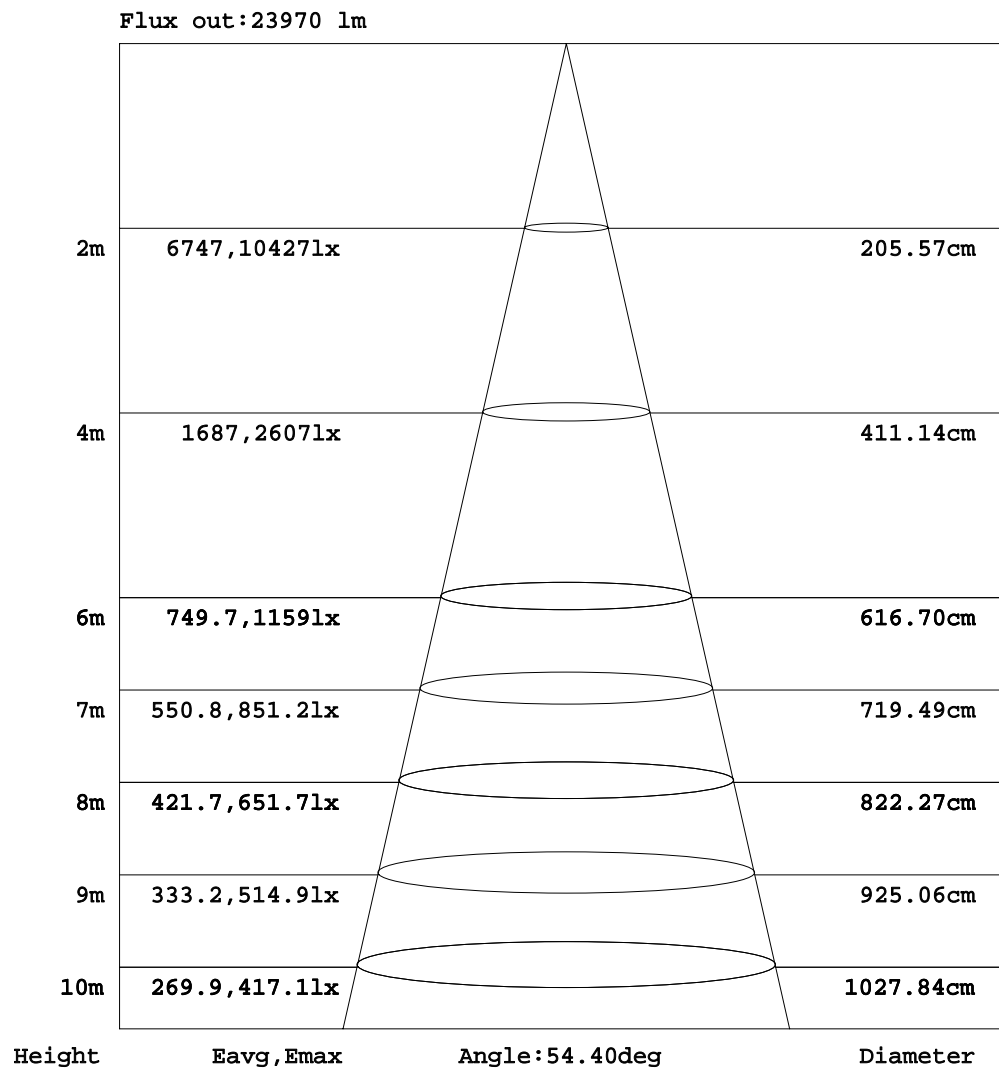


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:220.3V I:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



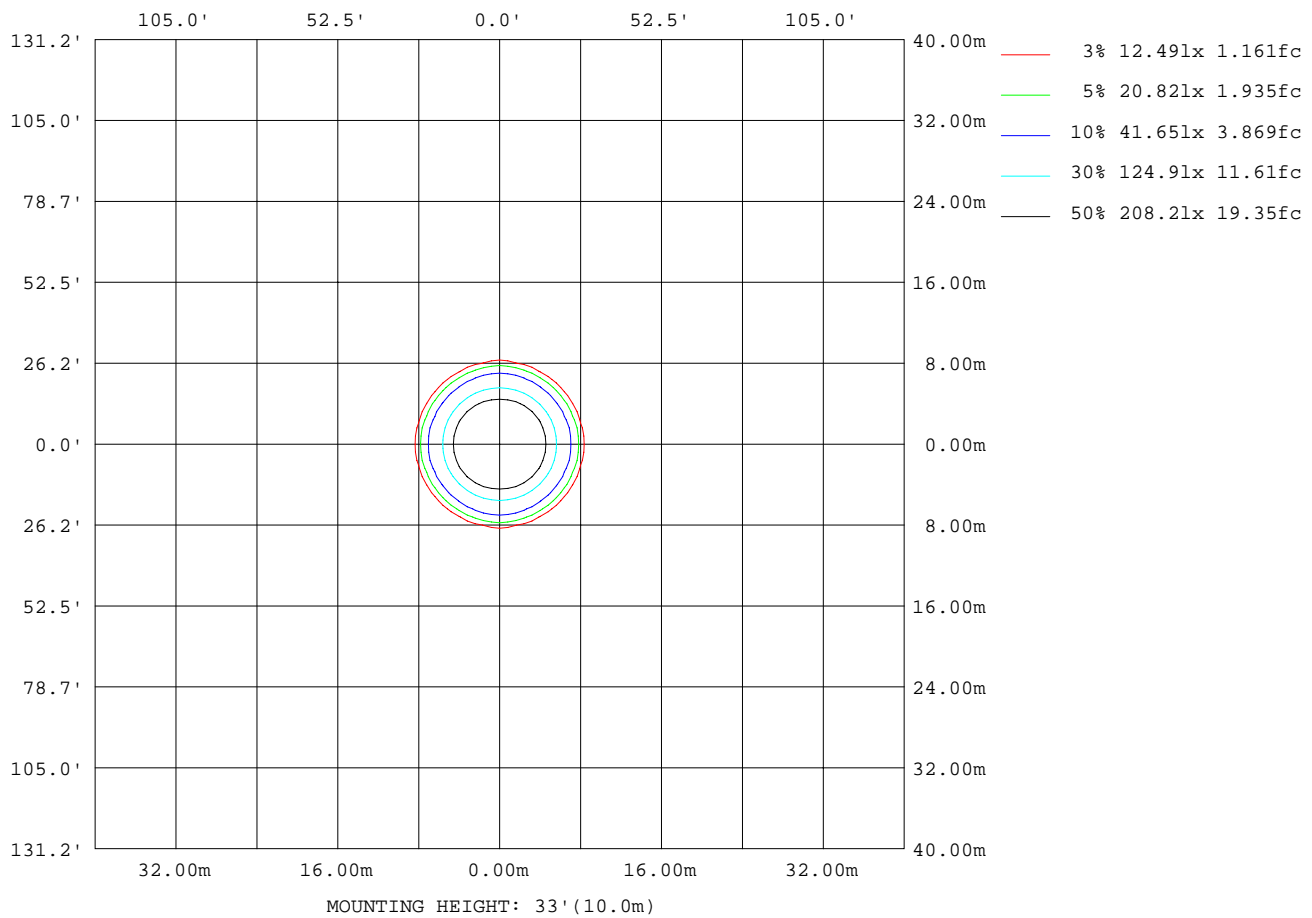
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.3V I:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\Phi 0.4 \times 0.141M$	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:220.3V I:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

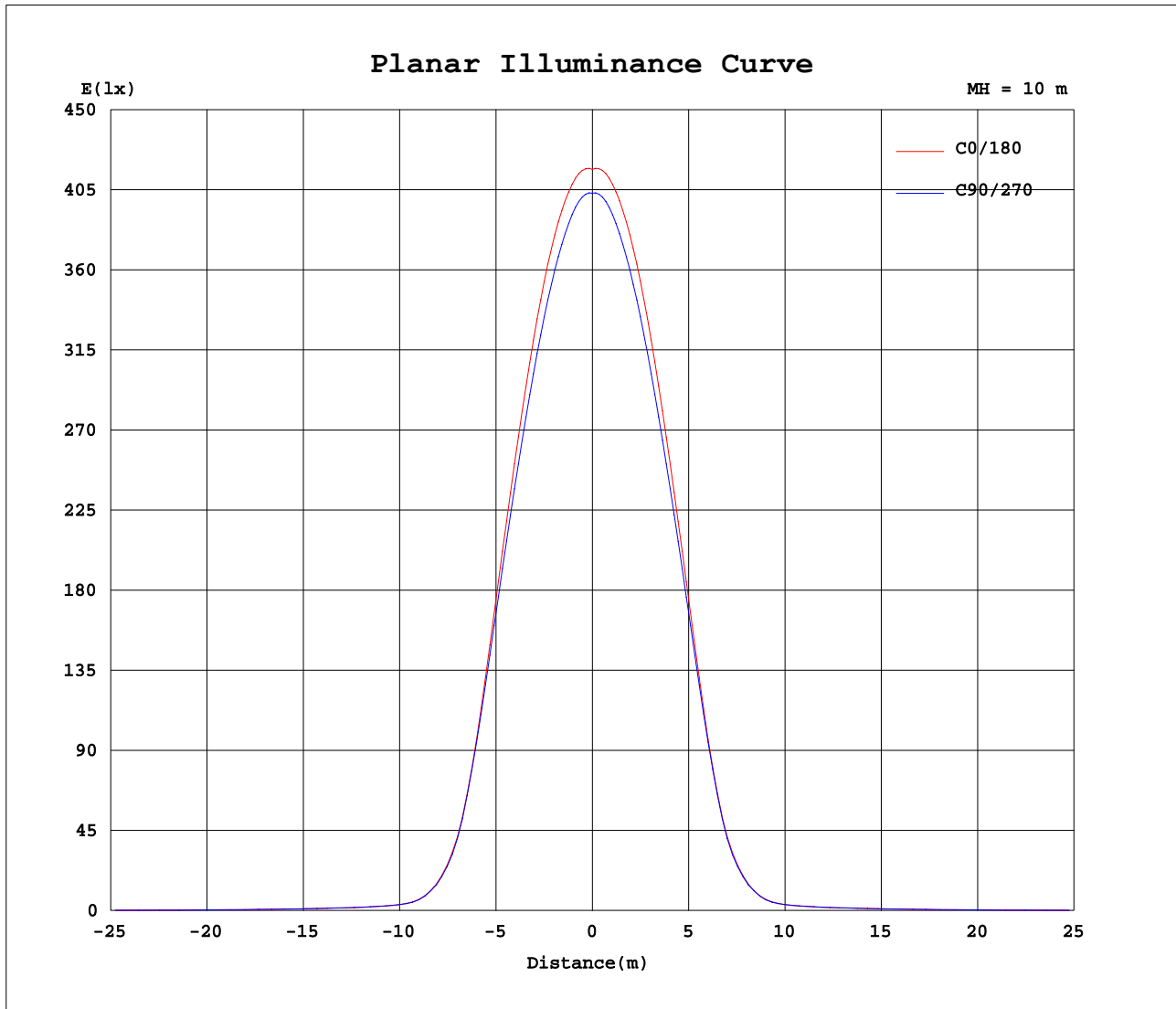
AvgL	cd/m2
L_0~180 (65) av	9371
L_0~180 (75) av	8369
L_0~180 (85) av	1146
L_90~270 (65) av	9956
L_90~270 (75) av	8860
L_90~270 (85) av	1376
L_45 (65) av	9595
L_45 (75) av	8317
L_45 (85) av	1121

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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: $\phi 0.4 \times 0.141M$	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	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086
5	4084	4087	4083	4081	4074	4071	4063	4060	4052	4052	4052	4060	4063	4071	4074	4081	4083	4087	4084
10	3975	3979	3966	3960	3944	3936	3921	3915	3901	3900	3901	3915	3921	3936	3944	3960	3966	3979	3975
15	3738	3745	3729	3725	3704	3698	3676	3668	3645	3641	3645	3668	3676	3698	3704	3725	3729	3745	3738
20	3321	3339	3327	3335	3316	3314	3285	3272	3238	3231	3238	3272	3285	3314	3316	3335	3327	3339	3321
25	2662	2689	2681	2702	2683	2690	2657	2652	2614	2618	2614	2652	2657	2690	2683	2702	2681	2689	2662
30	1715	1745	1722	1744	1716	1734	1708	1725	1696	1726	1696	1725	1708	1734	1716	1744	1722	1745	1715
35	738	749	720	727	698	709	689	711	701	746	701	711	689	709	698	727	720	749	738
40	243	254	235	245	226	231	221	228	224	251	224	228	221	231	226	245	235	254	243
45	93.1	94.4	93.3	94.3	93.5	94.6	94.1	95.3	95.0	96.9	95.0	95.3	94.1	94.6	93.5	94.3	93.3	94.4	93.1
50	69.3	70.2	70.2	71.3	72.0	73.4	73.6	74.2	74.2	75.1	74.2	74.2	73.6	73.4	72.0	71.3	70.2	70.2	69.3
55	60.2	60.7	60.6	61.5	62.1	63.0	63.4	64.0	64.0	65.2	64.0	64.0	63.4	63.0	62.1	61.5	60.6	60.7	60.2
60	50.1	50.8	50.3	51.0	51.0	51.6	52.0	52.5	52.2	53.6	52.2	52.5	52.0	51.6	51.0	51.0	50.3	50.8	50.1
65	39.6	39.9	39.6	40.2	40.4	40.7	40.9	41.1	41.1	42.1	41.1	41.1	40.9	40.7	40.4	40.2	39.6	39.9	39.6
70	31.0	31.4	31.0	31.4	31.3	31.6	31.7	31.9	31.8	32.9	31.8	31.9	31.7	31.6	31.3	31.4	31.0	31.4	31.0
75	21.7	21.7	21.3	21.5	21.5	21.6	21.5	21.6	21.8	22.9	21.8	21.6	21.5	21.6	21.5	21.5	21.3	21.7	21.7
80	10.6	10.6	10.1	10.4	10.2	10.4	10.2	10.5	10.7	11.8	10.7	10.5	10.2	10.4	10.2	10.4	10.1	10.6	10.6
85	1.00	1.02	0.96	1.00	0.95	1.00	0.97	1.05	1.02	1.20	1.02	1.05	0.97	1.00	0.95	1.00	0.96	1.02	1.00
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:1.116A P:242.9W PF:0.9798 Freq:49.99Hz Lamp Flux:33044.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-4000K-Ra80-60D	DIM.: ϕ 0.4*0.141M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

Table--2

UNIT: x10cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086	4086		
5	4087	4083	4081	4074	4071	4063	4060	4052	4052	4052	4060	4063	4071	4074	4081	4083	4087		
10	3979	3966	3960	3944	3936	3921	3915	3901	3900	3901	3915	3921	3936	3944	3960	3966	3979		
15	3745	3729	3725	3704	3698	3676	3668	3645	3641	3645	3668	3676	3698	3704	3725	3729	3745		
20	3339	3327	3335	3316	3314	3285	3272	3238	3231	3238	3272	3285	3314	3316	3335	3327	3339		
25	2689	2681	2702	2683	2690	2657	2652	2614	2618	2614	2652	2657	2690	2683	2702	2681	2689		
30	1745	1722	1744	1716	1734	1708	1725	1696	1726	1696	1725	1708	1734	1716	1744	1722	1745		
35	749	720	727	698	709	689	711	701	746	701	711	689	709	698	727	720	749		
40	254	235	245	226	231	221	228	224	251	224	228	221	231	226	245	235	254		
45	94.4	93.3	94.3	93.5	94.6	94.1	95.3	95.0	96.9	95.0	95.3	94.1	94.6	93.5	94.3	93.3	94.4		
50	70.2	70.2	71.3	72.0	73.4	73.6	74.2	74.2	75.1	74.2	74.2	73.6	73.4	72.0	71.3	70.2	70.2		
55	60.7	60.6	61.5	62.1	63.0	63.4	64.0	64.0	65.2	64.0	64.0	63.4	63.0	62.1	61.5	60.6	60.7		
60	50.8	50.3	51.0	51.0	51.6	52.0	52.5	52.2	53.6	52.2	52.5	52.0	51.6	51.0	51.0	50.3	50.8		
65	39.9	39.6	40.2	40.4	40.7	40.9	41.1	41.1	42.1	41.1	41.1	40.9	40.7	40.4	40.2	39.6	39.9		
70	31.4	31.0	31.4	31.3	31.6	31.7	31.9	31.8	32.9	31.8	31.9	31.7	31.6	31.3	31.4	31.0	31.4		
75	21.7	21.3	21.5	21.5	21.6	21.5	21.6	21.8	22.9	21.8	21.6	21.5	21.6	21.5	21.5	21.3	21.7		
80	10.6	10.1	10.4	10.2	10.4	10.2	10.5	10.7	11.8	10.7	10.5	10.2	10.4	10.2	10.4	10.1	10.6		
85	1.02	0.96	1.00	0.95	1.00	0.97	1.05	1.02	1.20	1.02	1.05	0.97	1.00	0.95	1.00	0.96	1.02		
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]
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