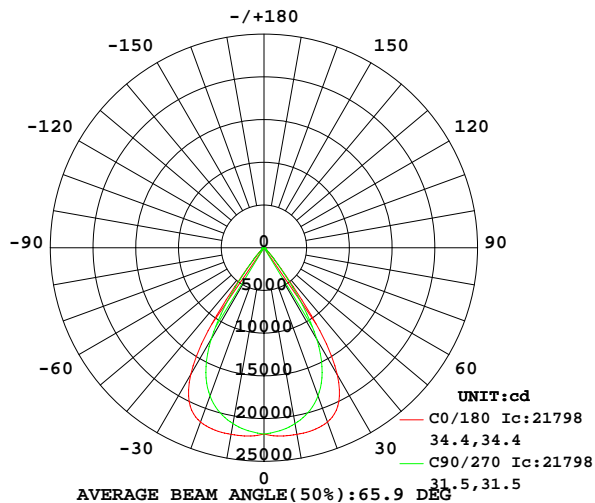


LUMINAIRE PHOTOMETRIC TEST REPORT

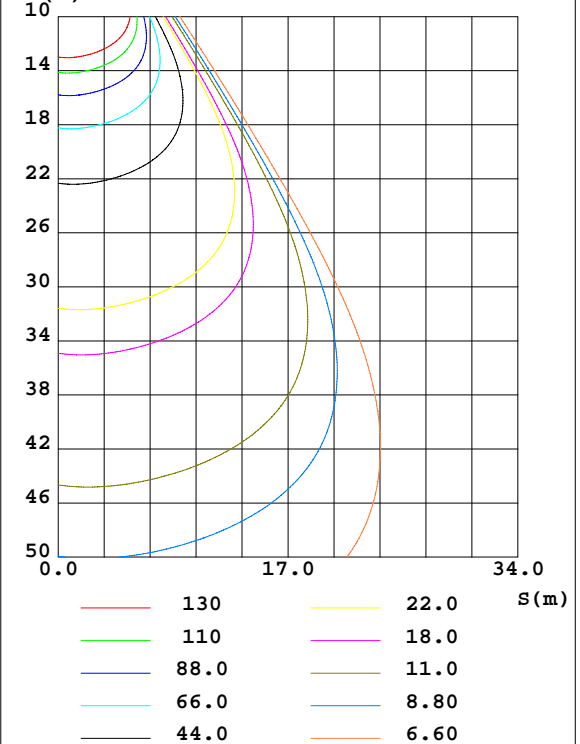
Test:U:220.3V I:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.18 lm/W			
MODEL	3030	I _{max} (cd)	22182	S/MH(C0/180)	0.99
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	0.92
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	22854	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	22854.3	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	0.95

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	2218	2175	2091	2175	2218	2175	2091	2175	0- 10	2081	2081	9.1,9.1
20	2171	2046	1847	2046	2171	2046	1847	2046	10- 20	5977	8058	35.3,35.3
30	1719	1486	1237	1486	1719	1486	1237	1486	20- 30	8334	16392	71.7,71.7
40	249.9	239.5	260.7	239.5	249.9	239.5	260.7	239.5	30- 40	4974	21366	93.5,93.5
50	42.47	40.68	39.20	40.68	42.47	40.68	39.20	40.68	40- 50	756.7	22123	96.8,96.8
60	34.24	32.18	30.14	32.18	34.24	32.18	30.14	32.18	50- 60	318.9	22442	98.2,98.2
70	22.48	20.38	19.67	20.38	22.48	20.38	19.67	20.38	60- 70	266.6	22708	99.4,99.4
80	5.423	4.681	4.933	4.681	5.423	4.681	4.933	4.681	70- 80	133.4	22842	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	12.56	22854	100,100
100	0	0	0	0	0	0	0	0	90-100	0	22854	100,100
110	0	0	0	0	0	0	0	0	100-110	0	22854	100,100
120	0	0	0	0	0	0	0	0	110-120	0	22854	100,100
130	0	0	0	0	0	0	0	0	120-130	0	22854	100,100
140	0	0	0	0	0	0	0	0	130-140	0	22854	100,100
150	0	0	0	0	0	0	0	0	140-150	0	22854	100,100
160	0	0	0	0	0	0	0	0	150-160	0	22854	100,100
170	0	0	0	0	0	0	0	0	160-170	0	22854	100,100
180	0	0	0	0	0	0	0	0	170-180	0	22854	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 21915 lm

%lum = 95.9%

%lamp = 95.9%

Conical surface Flux(120deg): 22442 lm

%lum = 98.2%

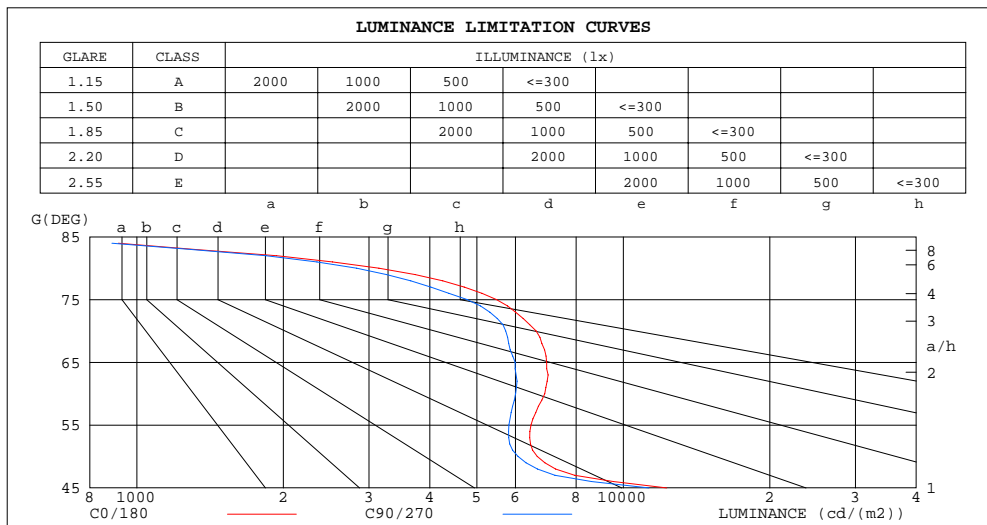
%lamp = 98.2%

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	531	486
80	3144	2830
75	5483	4774
70	6616	5729
65	6958	5991
60	6894	6005
55	6460	5818
50	6651	6074
45	12279	11288

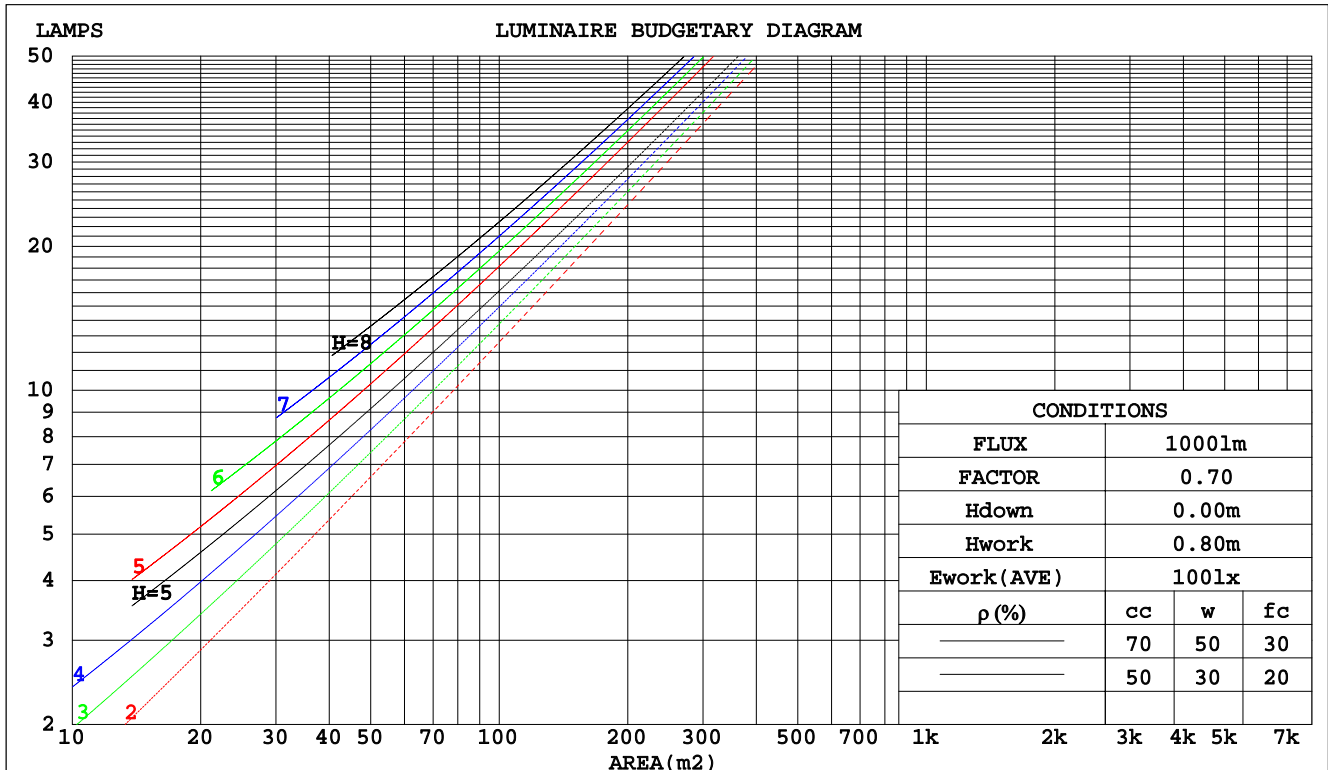
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	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	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.98	.95	1.01	.97	.94	.98	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.77	.73	.82	.77	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.77	.72	.67	.76	.71	.67	.74	.70	.66	.73	.69	.66	.65
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.60
8.0	.69	.63	.59	.68	.63	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.64	.59	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.53
10.0	.61	.55	.52	.61	.55	.52	.60	.55	.51	.59	.55	.51	.59	.54	.51	.50



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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	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	.183	.104	.033	.177	.101	.032	.164	.094	.030	.152	.088	.028	.142	.082	.026		
2.0	.175	.096	.030	.170	.094	.029	.159	.089	.027	.149	.084	.026	.140	.079	.025		
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023		
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.139	.075	.023	.133	.072	.022		
5.0	.151	.077	.022	.148	.076	.022	.141	.073	.022	.134	.071	.021	.128	.069	.021		
6.0	.144	.072	.021	.141	.071	.020	.135	.069	.020	.129	.067	.020	.124	.065	.019		
7.0	.138	.068	.019	.135	.067	.019	.130	.065	.019	.125	.064	.019	.120	.062	.018		
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.120	.061	.018	.116	.059	.017		
9.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016		
10.0	.121	.058	.016	.119	.058	.016	.115	.056	.016	.112	.055	.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	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.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	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.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:2018-04-14

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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D					DIM.: 0.319*138M			SERIAL No.:		
MFR.: AOK					SUR.:0.24M			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	9.5	10.5	9.8	10.7	10.9	7.8	8.8	8.1	9.0	9.1
3H	9.6	10.5	9.8	10.7	10.9	7.9	8.8	8.2	9.0	9.2
4H	9.6	10.4	9.8	10.6	10.9	7.9	8.8	8.2	9.0	9.2
6H	9.5	10.3	9.8	10.6	10.8	7.9	8.7	8.2	8.9	9.2
8H	9.5	10.2	9.8	10.5	10.8	7.9	8.6	8.2	8.9	9.1
12H	9.4	10.2	9.8	10.4	10.7	7.8	8.5	8.1	8.8	9.1
4H 2H	9.4	10.2	9.6	10.4	10.7	7.7	8.5	8.0	8.8	9.0
3H	9.4	10.2	9.8	10.4	10.7	7.9	8.6	8.2	8.9	9.1
4H	9.5	10.1	9.8	10.4	10.8	7.9	8.6	8.3	8.9	9.2
6H	9.5	10.0	9.8	10.4	10.7	7.9	8.5	8.3	8.8	9.2
8H	9.4	10.0	9.8	10.3	10.7	7.9	8.4	8.3	8.8	9.1
12H	9.4	9.9	9.8	10.2	10.6	7.8	8.3	8.2	8.7	9.1
8H 4H	9.4	9.9	9.8	10.3	10.7	7.9	8.4	8.3	8.8	9.1
6H	9.4	9.8	9.8	10.2	10.6	7.9	8.3	8.3	8.7	9.1
8H	9.3	9.7	9.8	10.1	10.6	7.8	8.2	8.3	8.6	9.1
12H	9.3	9.6	9.8	10.1	10.5	7.8	8.1	8.3	8.6	9.0
12H 4H	9.3	9.8	9.8	10.2	10.6	7.8	8.3	8.2	8.7	9.1
6H	9.3	9.7	9.8	10.1	10.6	7.8	8.2	8.3	8.6	9.1
8H	9.3	9.6	9.8	10.1	10.5	7.8	8.1	8.3	8.6	9.0
Variations with the observer position at spacings:										
S = 1.0H	+ 3.6 / - 3.4					+ 3.0 / - 3.2				
1.5H	+ 6.0 / - 3.3					+ 5.4 / - 3.2				
2.0H	+ 1.6 / - 0.5					+ 1.6 / - 0.4				

CIE Pub.117, 22854 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 10.9$)

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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:

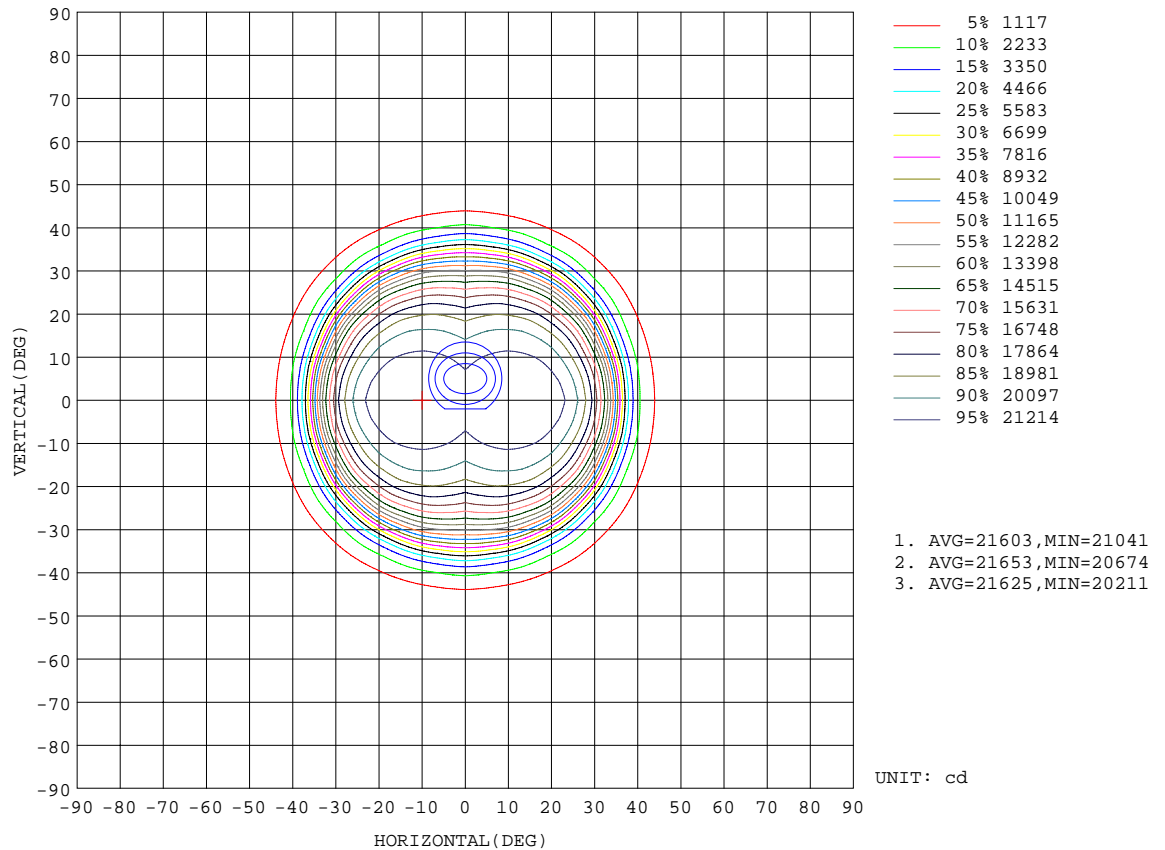
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	81	78	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	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	101	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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:



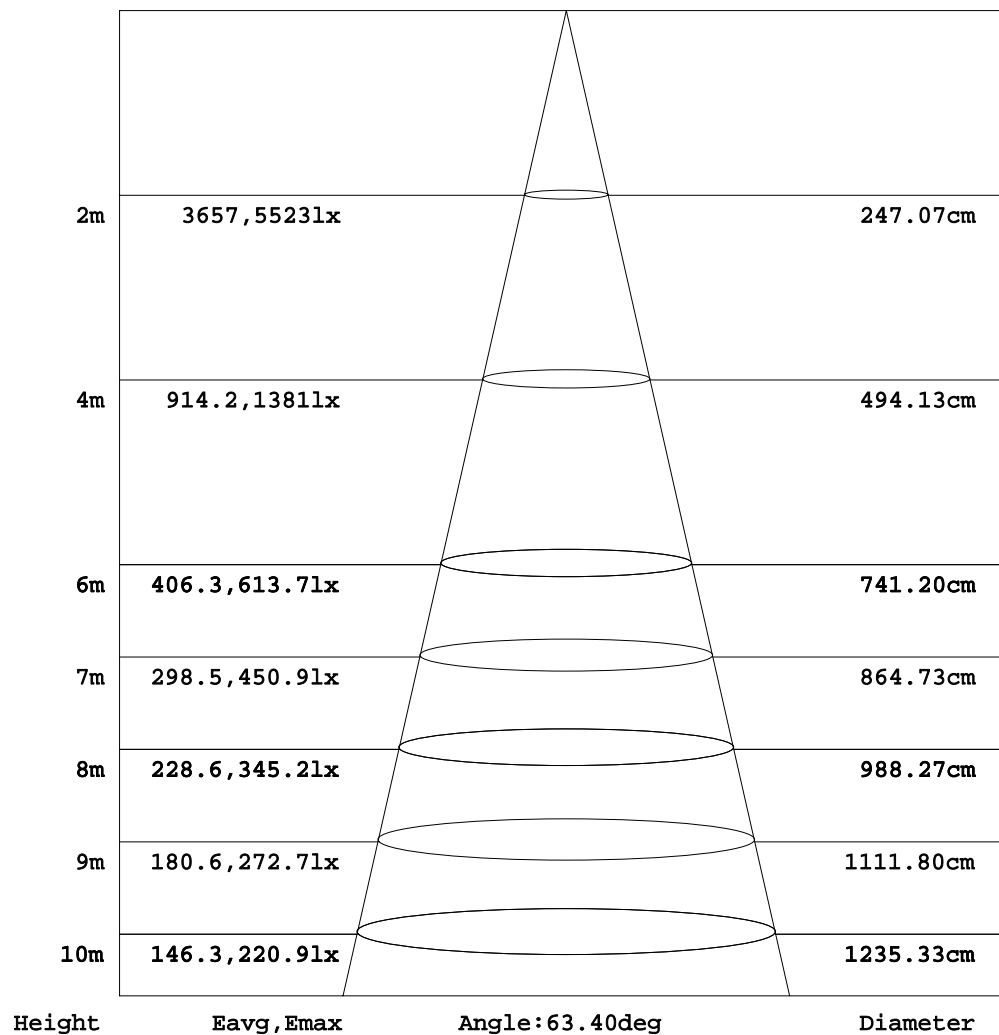
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-14

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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:

Flux out:17943 lm



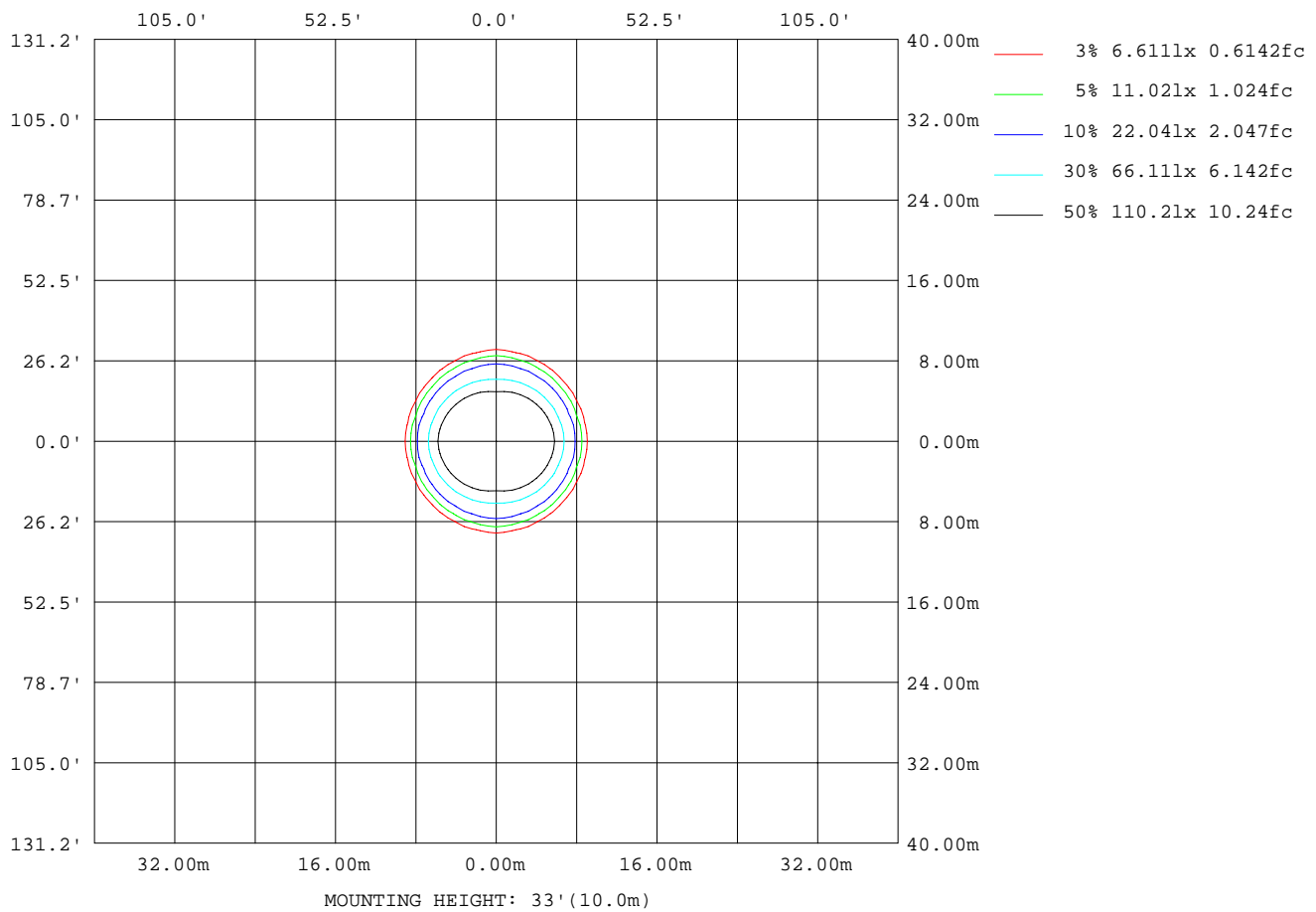
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:

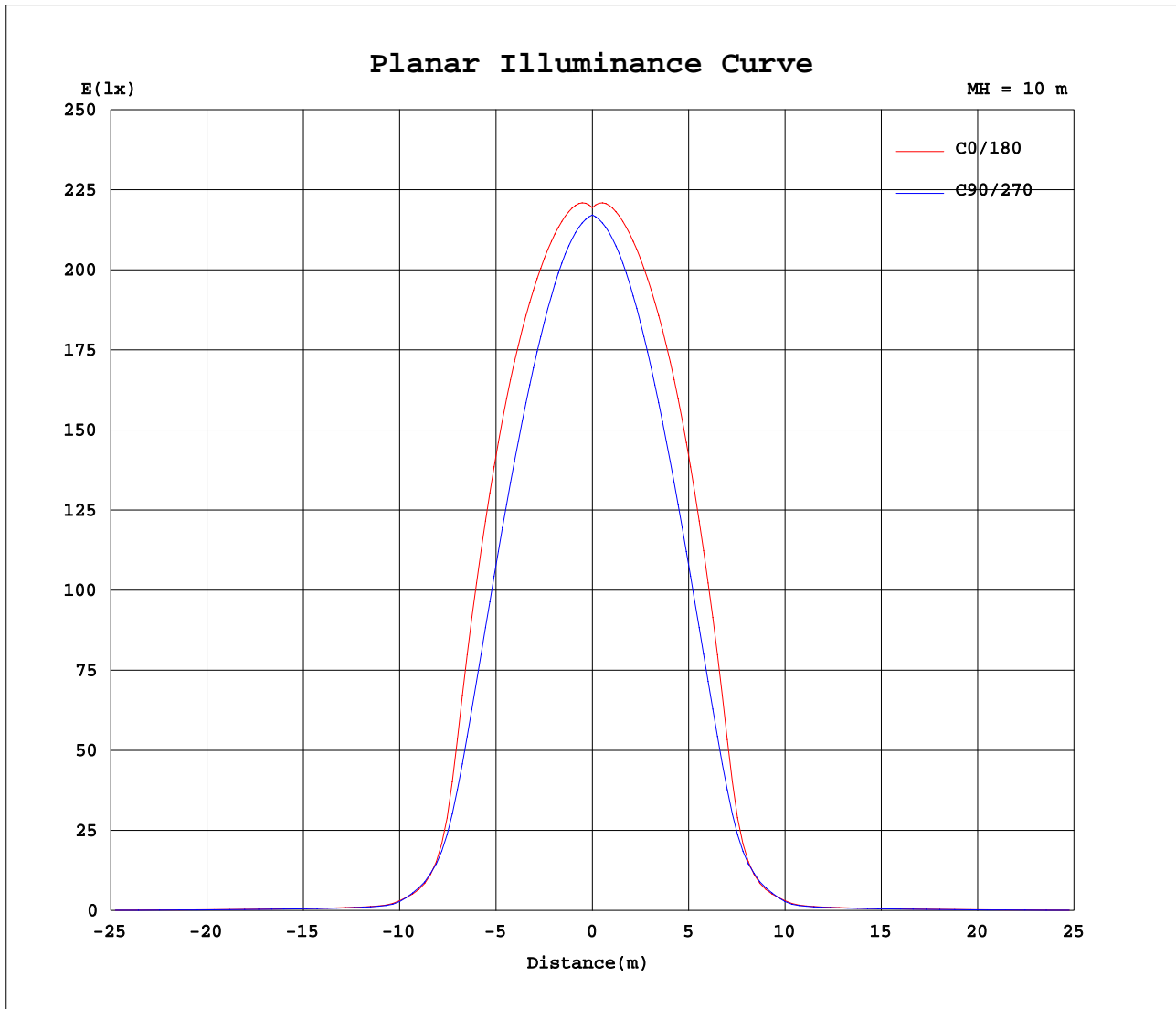
AvgL	cd/m2
L_0~180(65)av	6912
L_0~180(75)av	5446
L_0~180(85)av	528
L_90~270(65)av	6014
L_90~270(75)av	4793
L_90~270(85)av	488
L_45(65)av	6473
L_45(75)av	4796
L_45(85)av	461

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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:

Table--1

UNIT: ×10cd

C(°) \ γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180
5	2212	2210	2205	2200	2192	2185	2176	2167	2157	2149	2157	2167	2176	2185	2192	2200	2205	2210	2212
10	2218	2214	2205	2195	2182	2168	2150	2132	2111	2091	2111	2132	2150	2168	2182	2195	2205	2214	2218
15	2211	2203	2187	2169	2145	2121	2090	2061	2026	1996	2026	2061	2090	2121	2145	2169	2187	2203	2211
20	2171	2157	2130	2102	2064	2027	1981	1939	1890	1847	1890	1939	1981	2027	2064	2102	2130	2157	2171
25	2044	2022	1977	1936	1880	1833	1772	1720	1659	1612	1659	1720	1772	1833	1880	1936	1977	2022	2044
30	1719	1688	1628	1584	1513	1459	1383	1334	1273	1237	1273	1334	1383	1459	1513	1584	1628	1688	1719
35	965	945	874	856	794	776	728	717	685	689	685	717	728	776	794	856	874	945	965
40	250	258	237	249	233	246	235	249	242	261	242	249	235	246	233	249	237	258	250
45	86.2	85.3	79.6	78.9	74.4	75.7	73.2	76.1	75.4	80.1	75.4	76.1	73.2	75.7	74.4	78.9	79.6	85.3	86.2
50	42.5	42.4	41.6	41.4	40.7	40.7	39.9	39.5	39.1	39.2	39.1	39.5	39.9	40.7	40.7	41.4	41.6	42.4	42.5
55	36.8	36.7	36.2	35.8	35.5	35.3	34.6	34.2	33.7	33.5	33.7	34.2	34.6	35.3	35.5	35.8	36.2	36.7	36.8
60	34.2	34.0	33.4	32.9	32.3	32.0	31.4	31.0	30.4	30.1	30.4	31.0	31.4	32.0	32.3	32.9	33.4	34.0	34.2
65	29.2	29.0	28.1	28.0	27.7	27.0	26.4	26.2	25.6	25.4	25.6	26.2	26.4	27.0	27.7	28.0	28.1	29.0	29.2
70	22.5	21.9	21.4	21.0	20.5	20.2	19.6	19.6	19.5	19.7	19.5	19.6	19.6	20.2	20.5	21.0	21.4	21.9	22.5
75	14.1	13.8	13.4	13.0	12.4	12.5	12.0	12.0	11.9	12.4	11.9	12.0	12.0	12.5	12.4	13.0	13.4	13.8	14.1
80	5.42	5.33	5.10	5.00	4.62	4.74	4.46	4.57	4.59	4.93	4.59	4.57	4.46	4.74	4.62	5.00	5.10	5.33	5.42
85	0.46	0.45	0.38	0.40	0.38	0.42	0.39	0.41	0.38	0.43	0.38	0.41	0.39	0.42	0.38	0.40	0.38	0.45	0.46
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:0.7088A P:153.2W PF:0.9729 Freq:49.99Hz Lamp Flux:22854.3x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-4000K-Ra80-60D	DIM.: 0.319*138M	SERIAL No.:
MFR.: AOK	SUR.:0.24M	Shielding Angle:

Table--2

UNIT: ×10cd

C(°) γ (°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180		
5	2210	2205	2200	2192	2185	2176	2167	2157	2149	2157	2167	2176	2185	2192	2200	2205	2210		
10	2214	2205	2195	2182	2168	2150	2132	2111	2091	2111	2132	2150	2168	2182	2195	2205	2214		
15	2203	2187	2169	2145	2121	2090	2061	2026	1996	2026	2061	2090	2121	2145	2169	2187	2203		
20	2157	2130	2102	2064	2027	1981	1939	1890	1847	1890	1939	1981	2027	2064	2102	2130	2157		
25	2022	1977	1936	1880	1833	1772	1720	1659	1612	1659	1720	1772	1833	1880	1936	1977	2022		
30	1688	1628	1584	1513	1459	1383	1334	1273	1237	1273	1334	1383	1459	1513	1584	1628	1688		
35	945	874	856	794	776	728	717	685	689	685	717	728	776	794	856	874	945		
40	258	237	249	233	246	235	249	242	261	242	249	235	246	233	249	237	258		
45	85.3	79.6	78.9	74.4	75.7	73.2	76.1	75.4	80.1	75.4	76.1	73.2	75.7	74.4	78.9	79.6	85.3		
50	42.4	41.6	41.4	40.7	40.7	39.9	39.5	39.1	39.2	39.1	39.5	39.9	40.7	40.7	41.4	41.6	42.4		
55	36.7	36.2	35.8	35.5	35.3	34.6	34.2	33.7	33.5	33.7	34.2	34.6	35.3	35.5	35.8	36.2	36.7		
60	34.0	33.4	32.9	32.3	32.0	31.4	31.0	30.4	30.1	30.4	31.0	31.4	32.0	32.3	32.9	33.4	34.0		
65	29.0	28.1	28.0	27.7	27.0	26.4	26.2	25.6	25.4	25.6	26.2	26.4	27.0	27.7	28.0	28.1	29.0		
70	21.9	21.4	21.0	20.5	20.2	19.6	19.6	19.5	19.7	19.5	19.6	19.6	20.2	20.5	21.0	21.4	21.9		
75	13.8	13.4	13.0	12.4	12.5	12.0	12.0	11.9	12.4	11.9	12.0	12.0	12.5	12.4	13.0	13.4	13.8		
80	5.33	5.10	5.00	4.62	4.74	4.46	4.57	4.59	4.93	4.59	4.57	4.46	4.74	4.62	5.00	5.10	5.33		
85	0.45	0.38	0.40	0.38	0.42	0.39	0.41	0.38	0.43	0.38	0.41	0.39	0.42	0.38	0.40	0.38	0.45		
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: