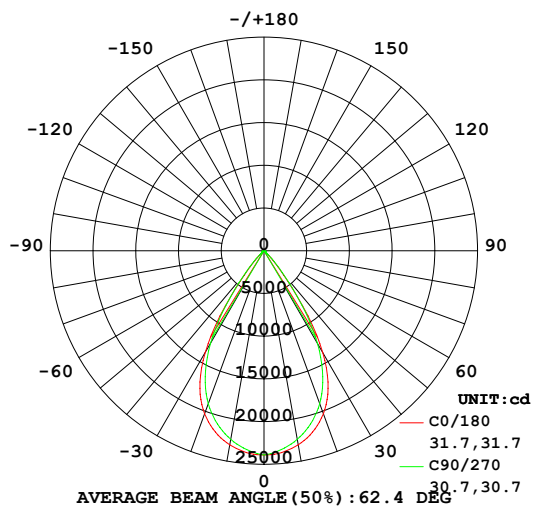


LUMINAIRE PHOTOMETRIC TEST REPORT

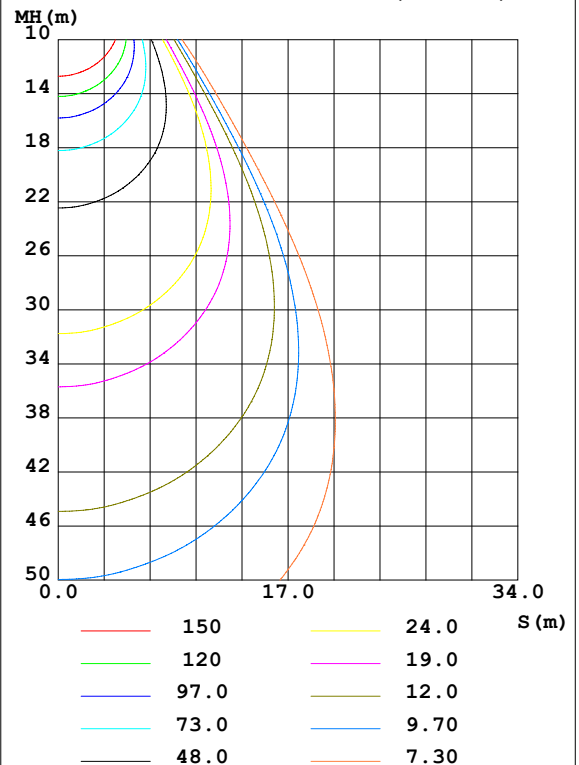
Test:U:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: ϕ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.24M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.27 lm/W			
MODEL	3030	I _{max} (cd)	23898	S/MH (C0/180)	0.93
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.91
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	21930	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	21930.2	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:2017-12-25

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	2307	2252	2242	2252	2307	2252	2242	2252	0- 10	2212	2212	10.1,10.1
20	2032	1914	1906	1914	2032	1914	1906	1914	10- 20	5946	8159	37.2,37.2
30	1375	1255	1254	1255	1375	1255	1254	1255	20- 30	7506	15664	71.4,71.4
40	302.1	315.7	332.0	315.7	302.1	315.7	332.0	315.7	30- 40	4710	20374	92.9,92.9
50	36.77	35.26	37.78	35.26	36.77	35.26	37.78	35.26	40- 50	931.3	21306	97.2,97.2
60	27.88	26.70	26.30	26.70	27.88	26.70	26.30	26.70	50- 60	266.7	21572	98.4,98.4
70	18.96	17.98	17.76	17.98	18.96	17.98	17.76	17.98	60- 70	228.3	21801	99.4,99.4
80	3.778	4.112	4.625	4.112	3.778	4.112	4.625	4.112	70- 80	119.6	21920	100,100
90	0	0	0	0	0	0	0	0	80- 90	9.980	21930	100,100
100	0	0	0	0	0	0	0	0	90-100	0	21930	100,100
110	0	0	0	0	0	0	0	0	100-110	0	21930	100,100
120	0	0	0	0	0	0	0	0	110-120	0	21930	100,100
130	0	0	0	0	0	0	0	0	120-130	0	21930	100,100
140	0	0	0	0	0	0	0	0	130-140	0	21930	100,100
150	0	0	0	0	0	0	0	0	140-150	0	21930	100,100
160	0	0	0	0	0	0	0	0	150-160	0	21930	100,100
170	0	0	0	0	0	0	0	0	160-170	0	21930	100,100
180	0	0	0	0	0	0	0	0	170-180	0	21930	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 21094 lm

%lum = 96.2%

%lamp = 96.2%

Conical surface Flux(120deg): 21572 lm

%lum = 98.4%

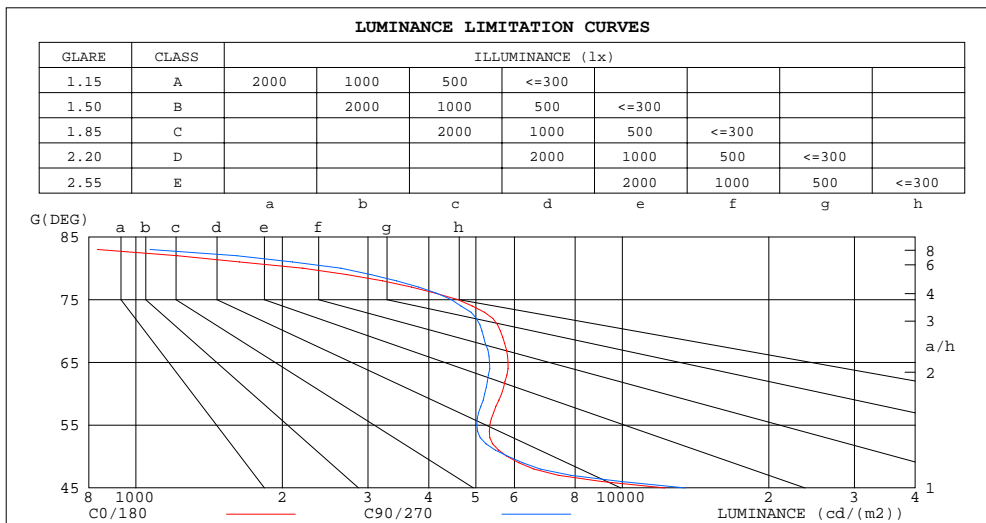
%lamp = 98.4%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	475	539
80	2204	2639
75	4585	4450
70	5616	5145
65	5824	5331
60	5647	5212
55	5341	5023
50	5794	5825
45	12222	13471

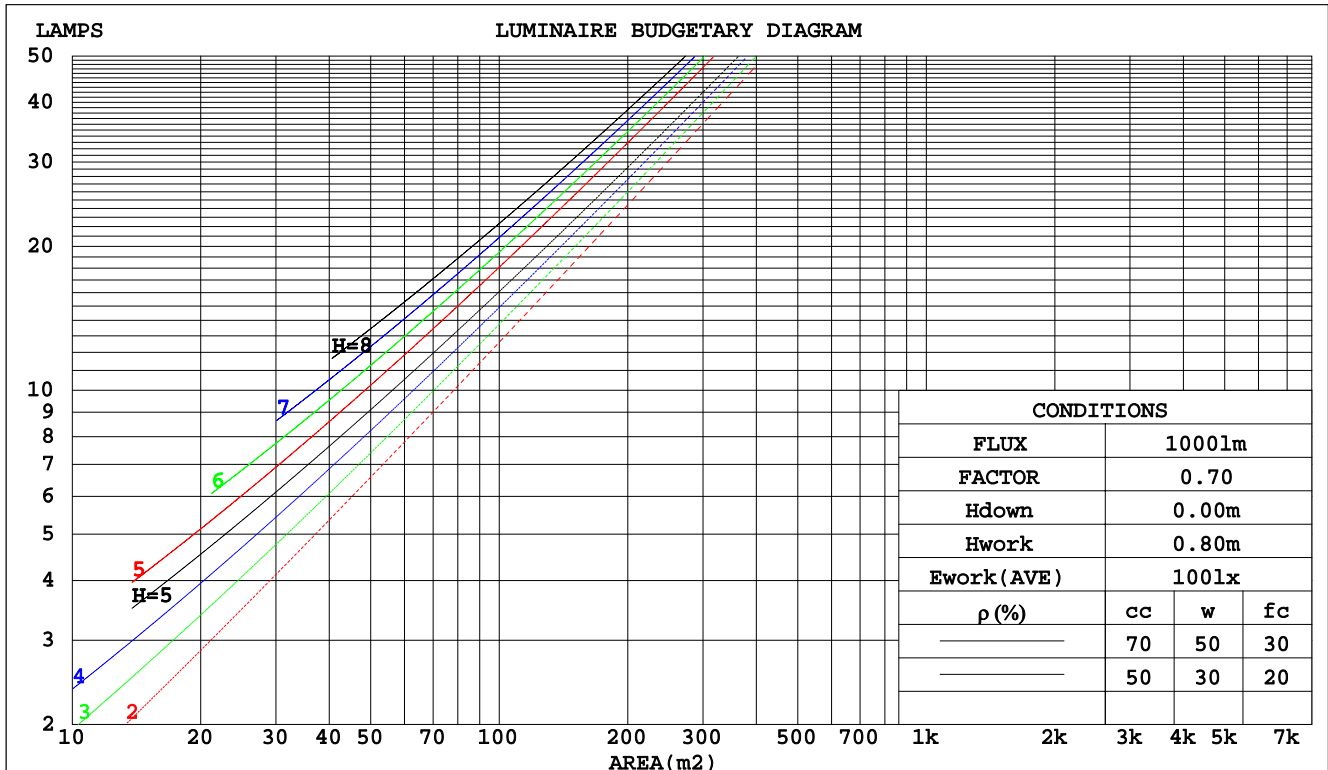
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	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	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.70
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.63	.73	.67	.63	.72	.67	.63	.71	.66	.63	.69	.65	.62	.61
8.0	.69	.63	.59	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.58	.57
9.0	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: ϕ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 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	.182	.103	.033	.175	.100	.032	.163	.093	.030	.151	.087	.028	.140	.081	.026		
2.0	.174	.095	.029	.168	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025		
3.0	.166	.088	.026	.161	.086	.026	.152	.082	.025	.143	.078	.024	.135	.075	.023		
4.0	.157	.082	.024	.153	.080	.024	.145	.077	.023	.138	.074	.022	.131	.071	.022		
5.0	.150	.076	.022	.146	.075	.022	.139	.073	.021	.133	.070	.021	.127	.068	.020		
6.0	.143	.072	.021	.140	.071	.020	.134	.069	.020	.128	.067	.020	.123	.065	.019		
7.0	.137	.068	.019	.134	.067	.019	.128	.065	.019	.123	.063	.018	.119	.062	.018		
8.0	.131	.064	.018	.128	.063	.018	.123	.062	.018	.119	.060	.017	.115	.059	.017		
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.057	.016	.111	.056	.016		
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.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	.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	.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	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.083	.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:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150W oH					DIM.: ϕ 0.319*0.138M			SERIAL No.:1		
MFR.: AOK					SUR.: ϕ 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	8.8	9.8	9.0	10.0	10.1	8.4	9.4	8.6	9.6	9.7
3H	8.8	9.7	9.1	9.9	10.1	8.4	9.3	8.7	9.5	9.7
4H	8.8	9.7	9.1	9.9	10.1	8.4	9.3	8.7	9.5	9.7
6H	8.8	9.6	9.1	9.8	10.1	8.4	9.2	8.7	9.4	9.7
8H	8.7	9.5	9.0	9.7	10.0	8.3	9.1	8.7	9.4	9.6
12H	8.7	9.4	9.0	9.7	10.0	8.3	9.0	8.6	9.3	9.6
4H 2H	8.6	9.5	8.9	9.7	9.9	8.2	9.1	8.5	9.3	9.5
3H	8.7	9.4	9.0	9.7	10.0	8.3	9.0	8.6	9.3	9.6
4H	8.8	9.4	9.1	9.7	10.0	8.4	9.0	8.7	9.3	9.6
6H	8.7	9.3	9.1	9.6	10.0	8.3	8.9	8.7	9.2	9.6
8H	8.7	9.2	9.1	9.6	9.9	8.3	8.8	8.7	9.2	9.6
12H	8.6	9.1	9.0	9.5	9.9	8.2	8.7	8.7	9.1	9.5
8H 4H	8.7	9.2	9.1	9.6	9.9	8.3	8.8	8.7	9.2	9.5
6H	8.6	9.1	9.1	9.5	9.9	8.3	8.7	8.7	9.1	9.5
8H	8.6	9.0	9.0	9.4	9.8	8.2	8.6	8.7	9.0	9.5
12H	8.5	8.9	9.0	9.3	9.8	8.2	8.5	8.7	9.0	9.4
12H 4H	8.6	9.1	9.0	9.5	9.9	8.2	8.7	8.6	9.1	9.5
6H	8.6	9.0	9.0	9.4	9.8	8.2	8.6	8.7	9.0	9.5
8H	8.5	8.9	9.0	9.3	9.8	8.2	8.5	8.7	9.0	9.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / - 4.6					+ 3.2 / - 4.9				
1.5H	+ 5.7 / - 4.5					+ 5.7 / - 4.7				
2.0H	+ 2.3 / - 0.6					+ 2.8 / - 0.6				

CIE Pub.117, 21930 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 10.7$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

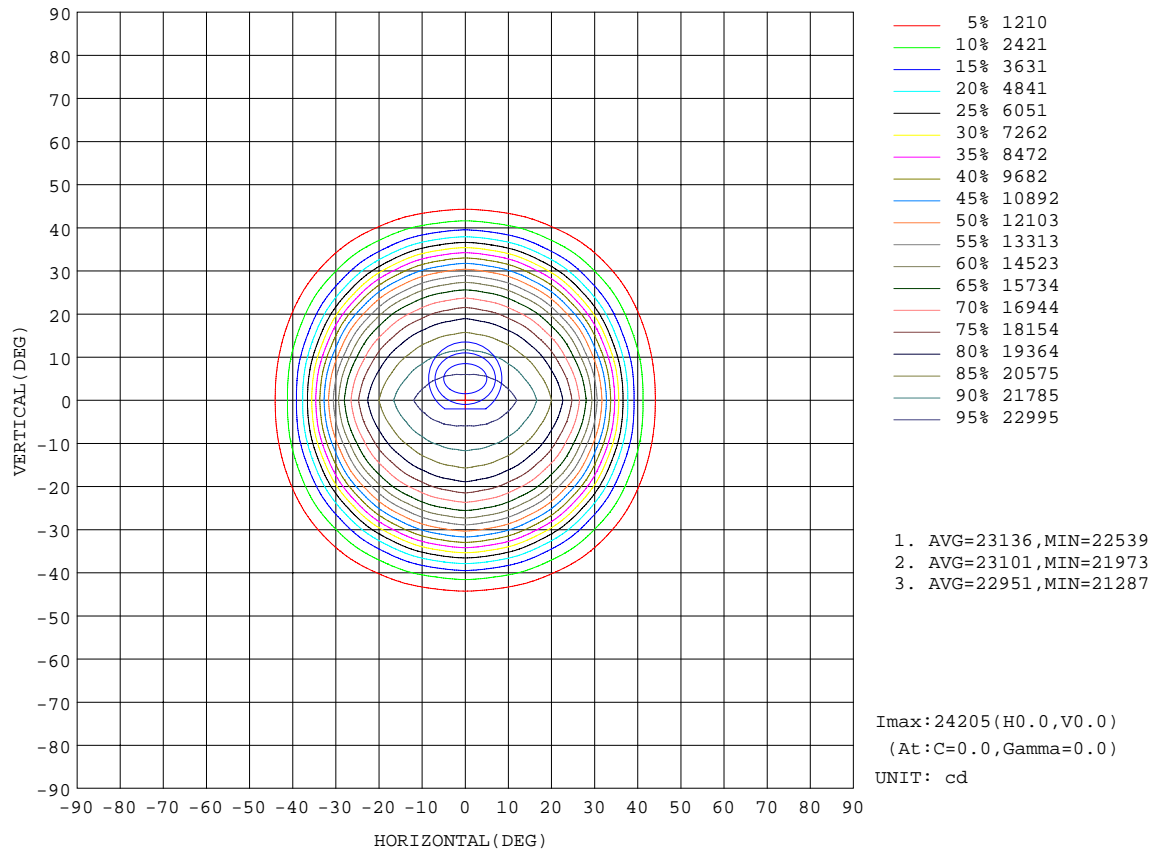
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	95
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
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:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



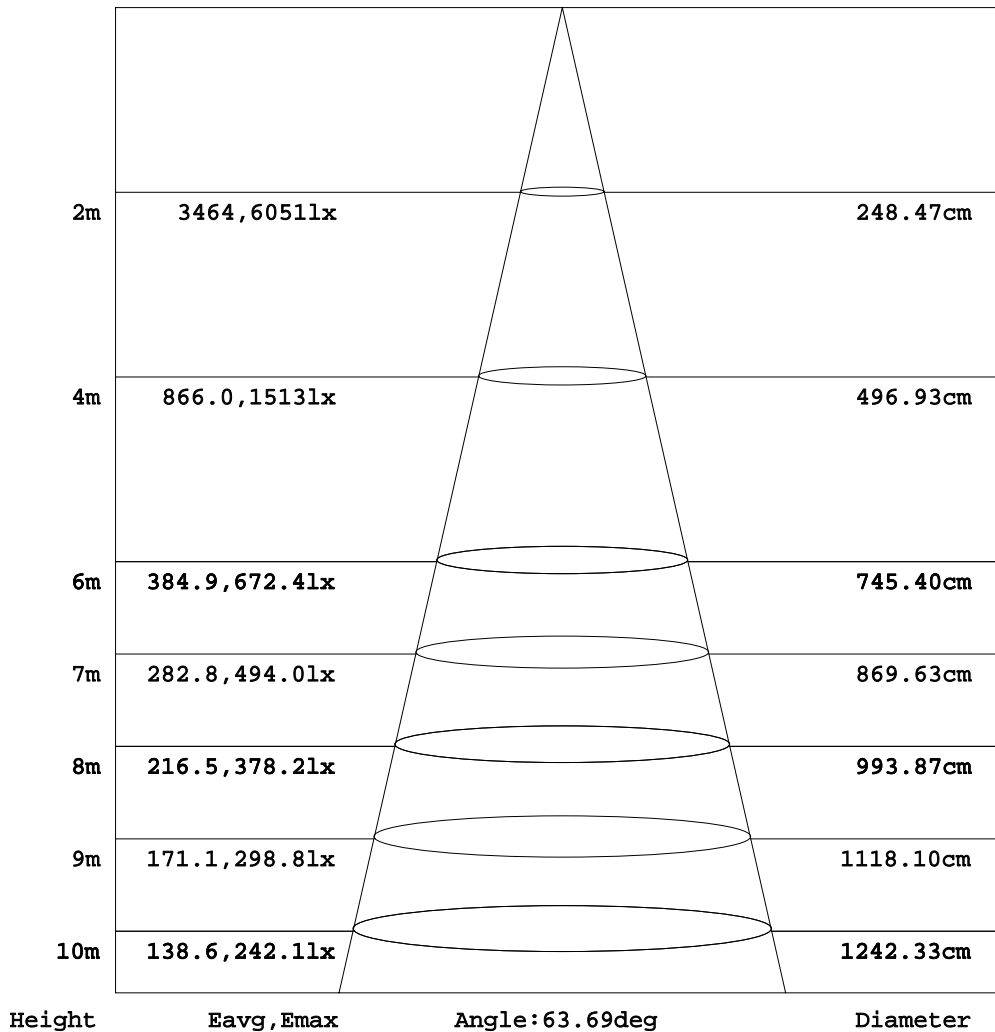
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

Flux out:16997 lm



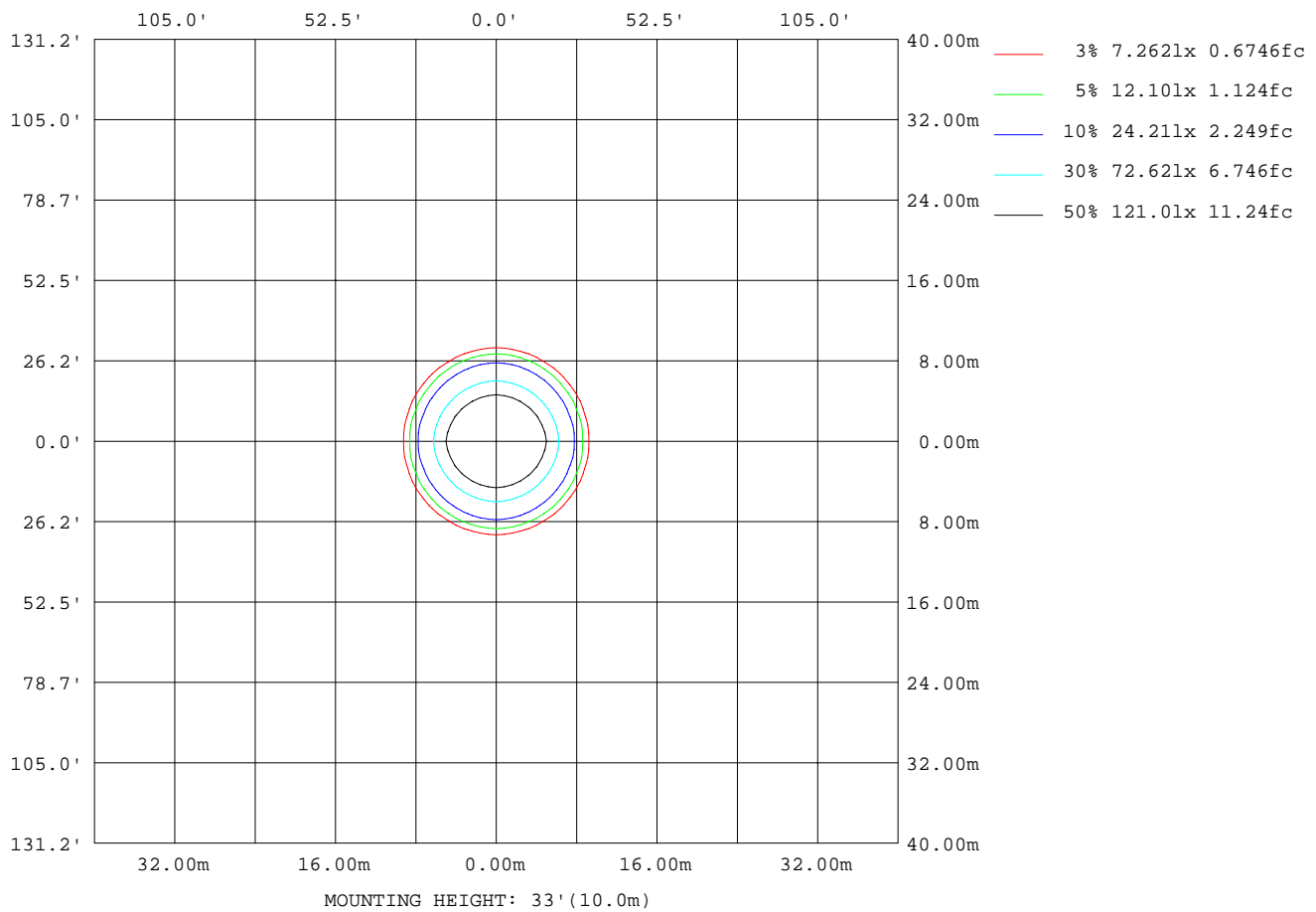
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

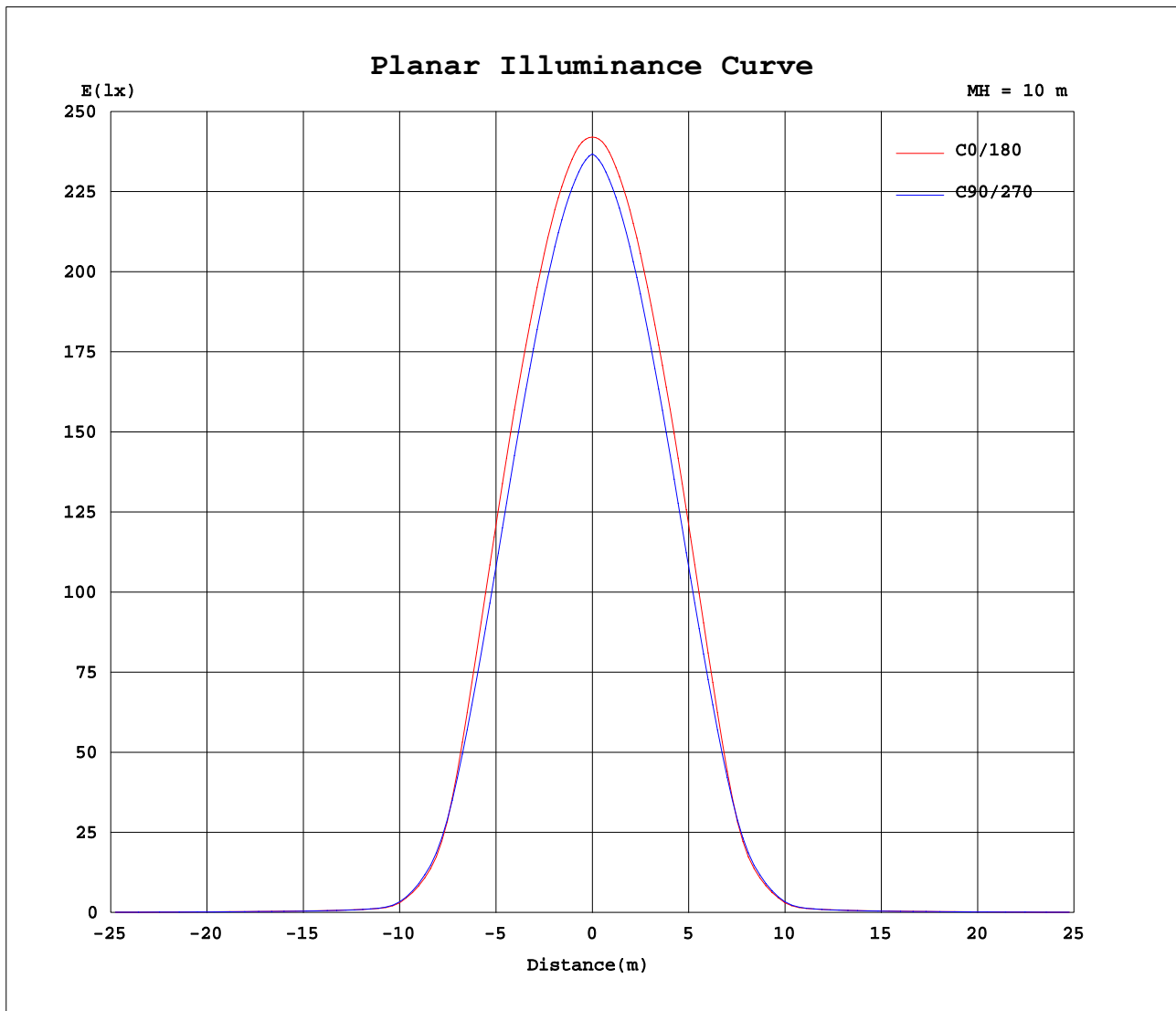
AvgL	cd/m2
L_0~180 (65) av	5749
L_0~180 (75) av	4526
L_0~180 (85) av	469
L_90~270 (65) av	5380
L_90~270 (75) av	4491
L_90~270 (85) av	544
L_45 (65) av	5487
L_45 (75) av	4477
L_45 (85) av	440

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-25

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: 2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH	DIM.: ϕ 0.319*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.24M	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	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
5	2370	2364	2356	2351	2344	2341	2336	2336	2334	2336	2334	2336	2336	2341	2344	2351	2356	2364	2370
10	2307	2294	2279	2269	2256	2249	2240	2239	2237	2242	2237	2239	2240	2249	2256	2269	2279	2294	2307
15	2197	2178	2153	2137	2117	2107	2095	2094	2091	2101	2091	2094	2095	2107	2117	2137	2153	2178	2197
20	2032	2004	1970	1947	1920	1908	1892	1893	1892	1906	1892	1893	1892	1908	1920	1947	1970	2004	2032
25	1776	1743	1701	1678	1647	1635	1615	1616	1611	1628	1611	1616	1615	1635	1647	1678	1701	1743	1776
30	1375	1350	1305	1290	1258	1253	1234	1240	1234	1254	1234	1240	1234	1253	1258	1290	1305	1350	1375
35	791	791	762	762	739	751	740	758	753	773	753	758	740	751	739	762	762	791	791
40	302	319	309	317	311	320	317	327	323	332	323	327	317	320	311	317	309	319	302
45	85.3	90.0	87.8	93.1	90.1	95.1	92.0	96.3	92.6	96.1	92.6	96.3	92.0	95.1	90.1	93.1	87.8	90.0	85.3
50	36.8	36.8	35.9	35.7	35.0	35.5	35.7	36.6	36.9	37.8	36.9	36.6	35.7	35.5	35.0	35.7	35.9	36.8	36.8
55	30.2	30.0	29.5	29.1	28.6	28.6	28.6	28.7	28.7	29.1	28.7	28.7	28.6	28.6	28.6	29.1	29.5	30.0	30.2
60	27.9	27.8	27.5	27.1	26.7	26.7	26.5	26.3	26.3	26.3	26.3	26.3	26.5	26.7	26.7	27.1	27.5	27.8	27.9
65	24.3	24.4	24.0	23.7	23.3	23.2	23.0	22.9	22.8	22.7	22.8	22.9	23.0	23.2	23.3	23.7	24.0	24.4	24.3
70	19.0	18.7	18.5	18.1	18.0	17.9	17.9	17.7	17.7	17.8	17.7	17.7	17.9	17.9	18.0	18.1	18.5	18.7	19.0
75	11.7	11.6	11.7	11.7	11.6	11.5	11.5	11.6	11.4	11.6	11.4	11.6	11.5	11.5	11.6	11.7	11.7	11.6	11.7
80	3.78	3.74	3.65	3.81	3.91	4.32	4.24	4.52	4.40	4.63	4.40	4.52	4.24	4.32	3.91	3.81	3.65	3.74	3.78
85	0.41	0.43	0.40	0.41	0.37	0.40	0.39	0.43	0.43	0.47	0.43	0.43	0.39	0.40	0.37	0.41	0.40	0.43	0.41
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:2017-12-25

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:220.1V I:0.7454A P:157.5W PF:0.9600 Freq:49.99Hz Lamp Flux:21930.2x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150W oH									DIM.: ϕ 0.319*0.138M						SERIAL No.:1		
MFR.: AOK									SUR.: ϕ 0.24M						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	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390		
5	2364	2356	2351	2344	2341	2336	2336	2334	2336	2334	2336	2336	2341	2344	2351	2356	2364		
10	2294	2279	2269	2256	2249	2240	2239	2237	2242	2237	2239	2240	2249	2256	2269	2279	2294		
15	2178	2153	2137	2117	2107	2095	2094	2091	2101	2091	2094	2095	2107	2117	2137	2153	2178		
20	2004	1970	1947	1920	1908	1892	1893	1892	1906	1892	1893	1892	1908	1920	1947	1970	2004		
25	1743	1701	1678	1647	1635	1615	1616	1611	1628	1611	1616	1615	1635	1647	1678	1701	1743		
30	1350	1305	1290	1258	1253	1234	1240	1234	1254	1234	1240	1234	1253	1258	1290	1305	1350		
35	791	762	762	739	751	740	758	753	773	753	758	740	751	739	762	762	791		
40	319	309	317	311	320	317	327	323	332	323	327	317	320	311	317	309	319		
45	90.0	87.8	93.1	90.1	95.1	92.0	96.3	92.6	96.1	92.6	96.3	92.0	95.1	90.1	93.1	87.8	90.0		
50	36.8	35.9	35.7	35.0	35.5	35.7	36.6	36.9	37.8	36.9	36.6	35.7	35.5	35.0	35.7	35.9	36.8		
55	30.0	29.5	29.1	28.6	28.6	28.6	28.7	28.7	29.1	28.7	28.7	28.6	28.6	28.6	29.1	29.5	30.0		
60	27.8	27.5	27.1	26.7	26.7	26.5	26.3	26.3	26.3	26.3	26.3	26.5	26.7	26.7	27.1	27.5	27.8		
65	24.4	24.0	23.7	23.3	23.2	23.0	22.9	22.8	22.7	22.8	22.9	23.0	23.2	23.3	23.7	24.0	24.4		
70	18.7	18.5	18.1	18.0	17.9	17.9	17.7	17.7	17.8	17.7	17.7	17.9	17.9	18.0	18.1	18.5	18.7		
75	11.6	11.7	11.7	11.6	11.5	11.5	11.6	11.4	11.6	11.4	11.6	11.5	11.5	11.6	11.7	11.7	11.6		
80	3.74	3.65	3.81	3.91	4.32	4.24	4.52	4.40	4.63	4.40	4.52	4.24	4.32	3.91	3.81	3.65	3.74		
85	0.43	0.40	0.41	0.37	0.40	0.39	0.43	0.43	0.47	0.43	0.43	0.39	0.40	0.37	0.41	0.40	0.43		
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:2017-12-25

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: