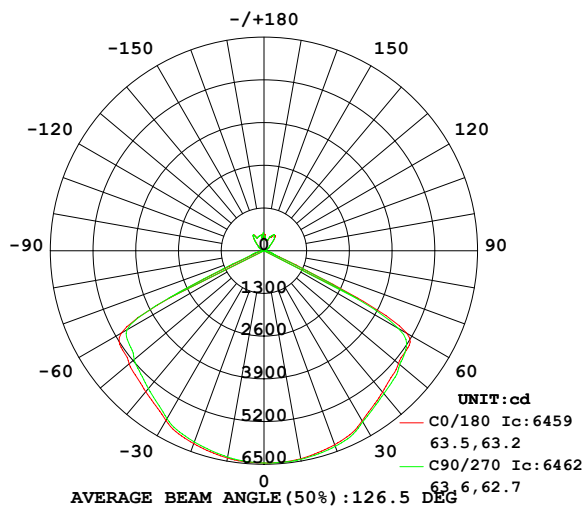


## LUMINAIRE PHOTOMETRIC TEST REPORT

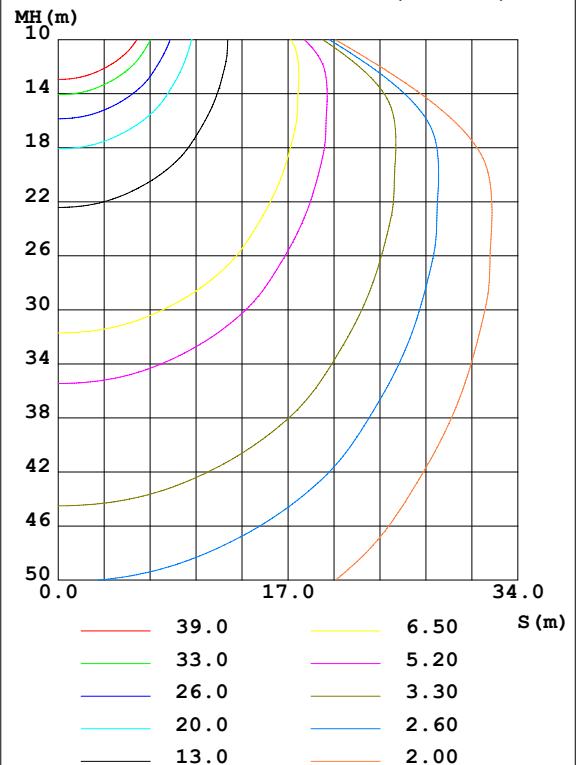
Test:U:220.2V I:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH-3030-120D	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.16 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	6466	S/MH (C0/180)	1.38
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.36
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	21419	$\eta$ UP, DN (C0-180)	3.1, 46.9
NOMINAL FLUX (lm)	21419.2	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	3.0, 46.9
LAMPS INSIDE	1	$\eta$ up (%)	6.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	$\eta$ down (%)	93.8	CIBSE SHR MAX	1.35

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:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	6427	6450	6446	6433	6405	6384	6375	6398	0- 10	614.6	614.6	2.87,2.87
20	6282	6330	6335	6309	6248	6213	6194	6224	10- 20	1796	2411	11.3,11.3
30	5978	6071	6015	6024	5966	5944	5902	5944	20- 30	2843	5254	24.5,24.5
40	5613	5645	5676	5629	5598	5510	5474	5506	30- 40	3620	8874	41.4,41.4
50	5341	5353	5394	5322	5357	5201	5158	5149	40- 50	4203	13076	61,61
60	5014	4762	4717	4724	5019	4932	4815	4764	50- 60	4583	17659	82.4,82.4
70	328.3	319.8	333.0	395.2	365.3	425.7	468.4	434.8	60- 70	2140	19798	92.4,92.4
80	80.00	88.45	108.9	132.6	92.48	116.1	105.5	106.2	70- 80	271.0	20069	93.7,93.7
90	4.921	4.678	5.263	4.938	5.096	4.669	4.800	4.264	80- 90	28.77	20098	93.8,93.8
100	20.15	24.20	23.78	22.82	22.94	18.47	19.17	21.93	90-100	11.59	20110	93.9,93.9
110	49.92	55.74	58.60	55.89	54.01	54.06	50.73	52.79	100-110	45.15	20155	94.1,94.1
120	147.3	127.7	156.0	118.6	153.1	133.7	153.2	119.2	110-120	91.06	20246	94.5,94.5
130	245.5	247.4	237.0	249.9	224.5	223.9	248.7	229.2	120-130	192.5	20439	95.4,95.4
140	507.5	441.2	501.3	434.5	475.1	452.0	456.7	373.7	130-140	279.1	20718	96.7,96.7
150	519.1	480.2	567.4	456.3	489.9	444.8	453.0	446.8	140-150	319.8	21037	98.2,98.2
160	330.3	477.0	332.2	461.2	464.8	397.6	468.2	387.6	150-160	216.8	21254	99.2,99.2
170	340.4	495.3	343.5	479.4	482.5	319.8	484.7	327.2	160-170	124.0	21378	99.8,99.8
180	498.2	483.5	454.9	486.4	500.0	483.6	482.6	486.4	170-180	40.83	21419	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10910 lm

%lum = 50.9%

%lamp = 50.9%

Conical surface Flux(120deg): 17659 lm

%lum = 82.4%

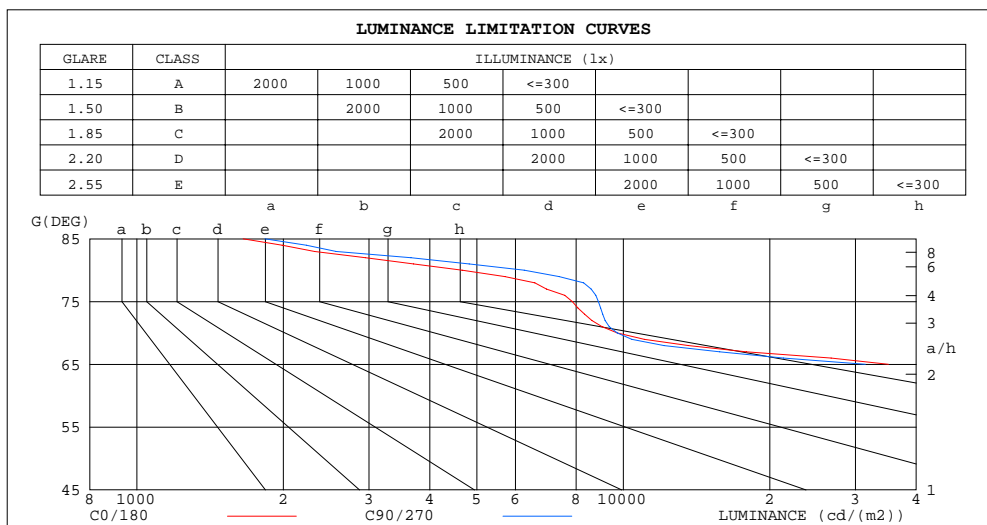
%lamp = 82.4%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150W oH-3030-120D	DIM.: $\phi 0.319 \times 0.138 \text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24 \text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1654	1833
80	4662	6256
75	7855	8885
70	9714	9715
65	35062	31440
60	101481	94127
55	93248	91595
50	84071	83721
45	78222	78501

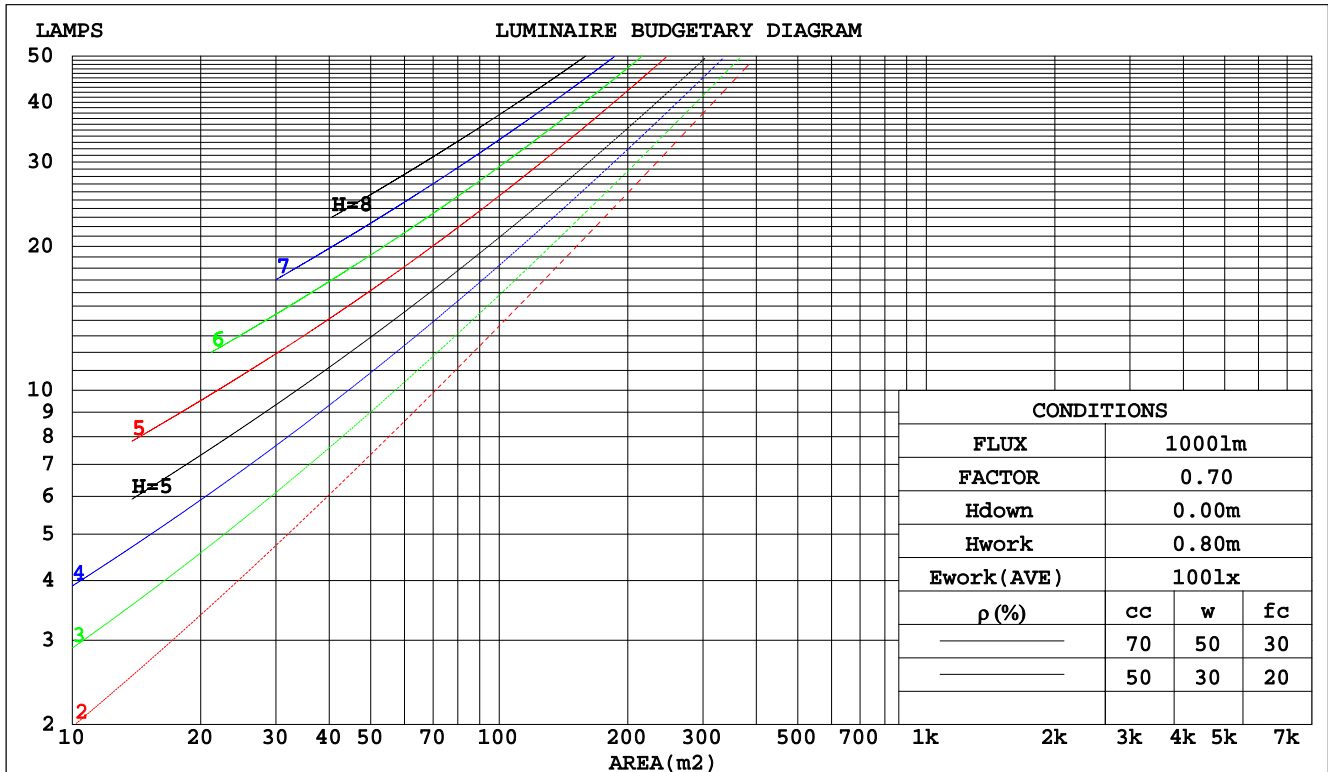
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.05	1.01	.98	1.02	.98	.95	.96	.94	.91	.92	.89	.87	.87	.85	.84	.81
2.0	.92	.86	.80	.89	.84	.79	.85	.80	.76	.81	.77	.74	.77	.74	.71	.69
3.0	.81	.73	.67	.79	.72	.66	.75	.69	.64	.71	.66	.62	.68	.64	.60	.58
4.0	.71	.63	.57	.70	.62	.56	.66	.60	.54	.63	.58	.53	.61	.56	.52	.49
5.0	.63	.55	.48	.62	.54	.48	.59	.52	.47	.57	.50	.46	.54	.49	.45	.42
6.0	.57	.48	.42	.55	.47	.41	.53	.46	.40	.51	.44	.40	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.44	.38	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.36	.31	.42	.35	.31	.40	.35	.30	.28
9.0	.42	.34	.29	.42	.34	.28	.40	.33	.28	.38	.32	.28	.37	.31	.27	.25
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.35	.29	.25	.34	.28	.24	.23



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 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	.268	.152	.048	.259	.148	.047	.242	.139	.044	.227	.131	.042	.213	.123	.040	
2.0	.264	.145	.044	.256	.141	.043	.241	.134	.042	.228	.128	.040	.215	.122	.038	
3.0	.251	.134	.040	.244	.131	.039	.231	.125	.038	.219	.120	.037	.208	.115	.036	
4.0	.237	.123	.036	.231	.121	.036	.219	.116	.035	.208	.112	.034	.198	.107	.033	
5.0	.222	.113	.033	.216	.111	.032	.206	.107	.032	.196	.103	.031	.187	.100	.030	
6.0	.208	.104	.030	.203	.102	.029	.193	.099	.029	.184	.096	.028	.176	.093	.027	
7.0	.195	.096	.027	.190	.095	.027	.181	.092	.026	.173	.089	.026	.166	.086	.025	
8.0	.183	.089	.025	.179	.088	.025	.171	.085	.024	.163	.083	.024	.156	.080	.023	
9.0	.172	.083	.023	.168	.082	.023	.161	.079	.023	.154	.077	.022	.148	.075	.022	
10.0	.162	.078	.022	.158	.077	.021	.152	.074	.021	.146	.072	.021	.140	.070	.020	

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	.237	.237	.237	.203	.203	.203	.139	.139	.139	.080	.080	.080	.025	.025	.025	
1.0	.225	.204	.185	.192	.175	.159	.132	.120	.110	.076	.070	.064	.024	.022	.021	
2.0	.216	.180	.149	.185	.155	.129	.127	.107	.090	.073	.062	.053	.023	.020	.017	
3.0	.209	.162	.125	.179	.140	.108	.123	.097	.076	.071	.057	.045	.023	.018	.015	
4.0	.202	.149	.108	.173	.129	.094	.119	.090	.066	.069	.053	.039	.022	.017	.013	
5.0	.195	.139	.097	.168	.120	.084	.116	.084	.059	.067	.049	.035	.022	.016	.012	
6.0	.189	.130	.088	.162	.113	.077	.112	.079	.054	.065	.046	.032	.021	.015	.011	
7.0	.182	.124	.082	.157	.107	.072	.108	.075	.051	.063	.044	.030	.020	.014	.010	
8.0	.176	.118	.078	.152	.102	.068	.105	.072	.048	.061	.042	.029	.020	.014	.009	
9.0	.171	.113	.074	.147	.098	.065	.102	.069	.046	.059	.041	.027	.019	.013	.009	
10.0	.165	.109	.071	.142	.095	.062	.099	.067	.044	.058	.039	.026	.019	.013	.009	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG			
SPEC.:AOK-150WoH-3030-120D					DIM.: $\phi$ 0.319*0.138M			SERIAL No.:			
MFR.: AOK					SUR.: $\phi$ 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	18.6	20.0	19.0	20.3	20.7	18.3	19.7	18.7	20.0	20.3	
	3H	18.5	19.8	18.9	20.1	20.5	18.2	19.5	18.6	19.8	20.2
	4H	18.4	19.6	18.8	20.0	20.3	18.1	19.3	18.5	19.7	20.0
	6H	18.3	19.4	18.7	19.8	20.2	18.0	19.1	18.4	19.5	19.9
	8H	18.2	19.3	18.7	19.7	20.1	17.9	19.0	18.4	19.4	19.8
	12H	18.2	19.2	18.6	19.6	20.0	17.9	18.9	18.3	19.3	19.7
4H	2H	18.8	20.0	19.2	20.4	20.7	18.5	19.8	18.9	20.1	20.5
	3H	18.7	19.7	19.1	20.1	20.5	18.4	19.5	18.9	19.9	20.3
	4H	18.6	19.5	19.1	20.0	20.4	18.3	19.3	18.8	19.7	20.2
	6H	18.5	19.3	19.0	19.8	20.3	18.3	19.1	18.7	19.5	20.0
	8H	18.5	19.2	19.0	19.7	20.2	18.2	19.0	18.7	19.4	19.9
	12H	18.4	19.1	18.9	19.6	20.1	18.2	18.8	18.7	19.3	19.9
8H	4H	18.5	19.2	19.0	19.7	20.2	18.2	18.9	18.7	19.4	19.9
	6H	18.4	19.0	18.9	19.5	20.0	18.1	18.7	18.7	19.2	19.8
	8H	18.3	18.9	18.9	19.4	20.0	18.1	18.6	18.6	19.1	19.7
	12H	18.3	18.7	18.8	19.3	19.9	18.0	18.5	18.6	19.0	19.6
12H	4H	18.4	19.1	18.9	19.6	20.1	18.1	18.8	18.7	19.3	19.8
	6H	18.3	18.9	18.9	19.4	20.0	18.1	18.6	18.6	19.1	19.7
	8H	18.3	18.7	18.8	19.3	19.9	18.0	18.5	18.6	19.0	19.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.4					+ 0.6 / - 0.4					
1.5H	+ 1.7 / - 2.2					+ 1.6 / - 2.2					
2.0H	+ 1.1 / - 2.5					+ 0.9 / - 2.6					

CIE Pub.117, 21419 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 10.6$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

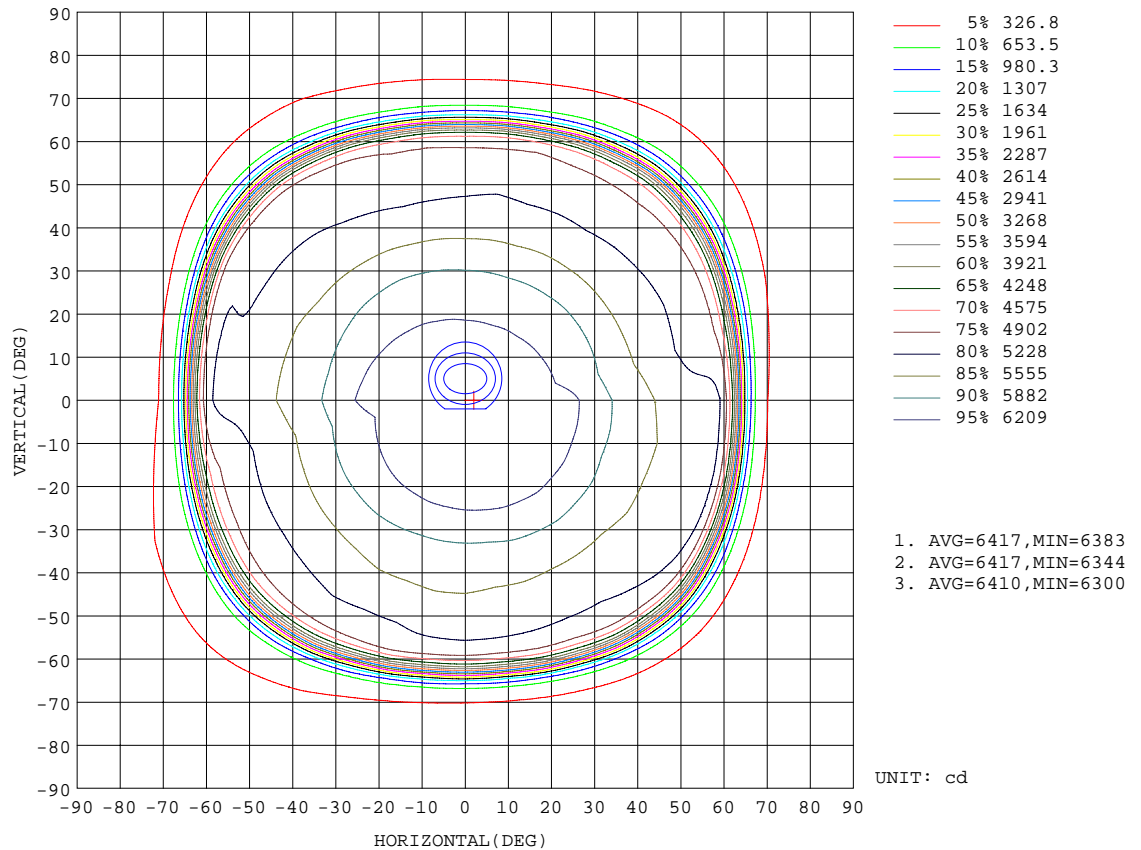
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	54	42	35	53	42	35	52	41	35	28
0.80	65	54	46	64	53	46	62	52	45	38
1.00	75	64	57	74	63	57	71	64	56	48
1.25	83	73	66	81	72	65	78	70	64	56
1.50	88	79	72	86	77	71	82	75	70	61
2.00	95	87	81	93	86	80	89	83	78	69
2.50	99	92	86	97	90	85	92	87	82	73
3.00	102	96	91	100	94	89	95	90	86	77
4.00	106	101	97	103	99	95	98	94	91	81
5.00	108	104	100	105	101	98	100	97	94	83
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:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-03-13

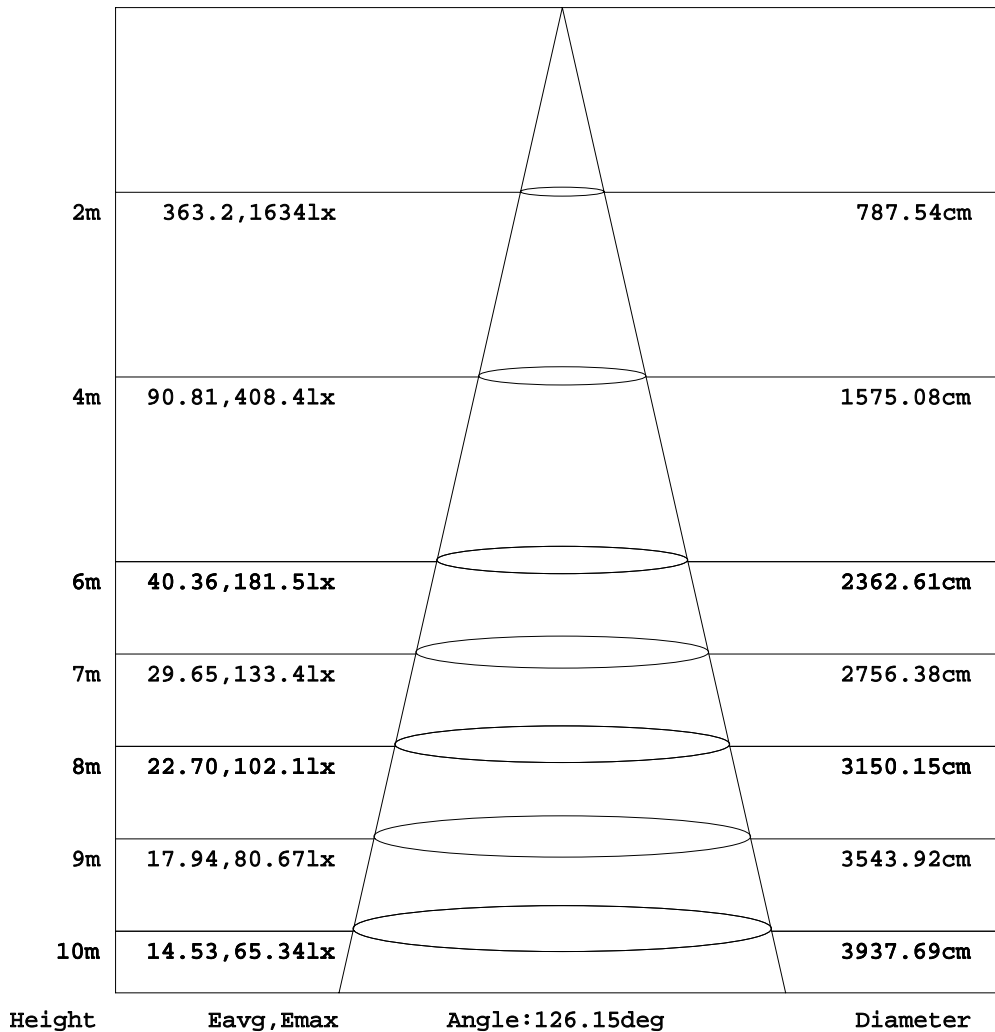
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:220.2V I:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

Flux out:19189 lm



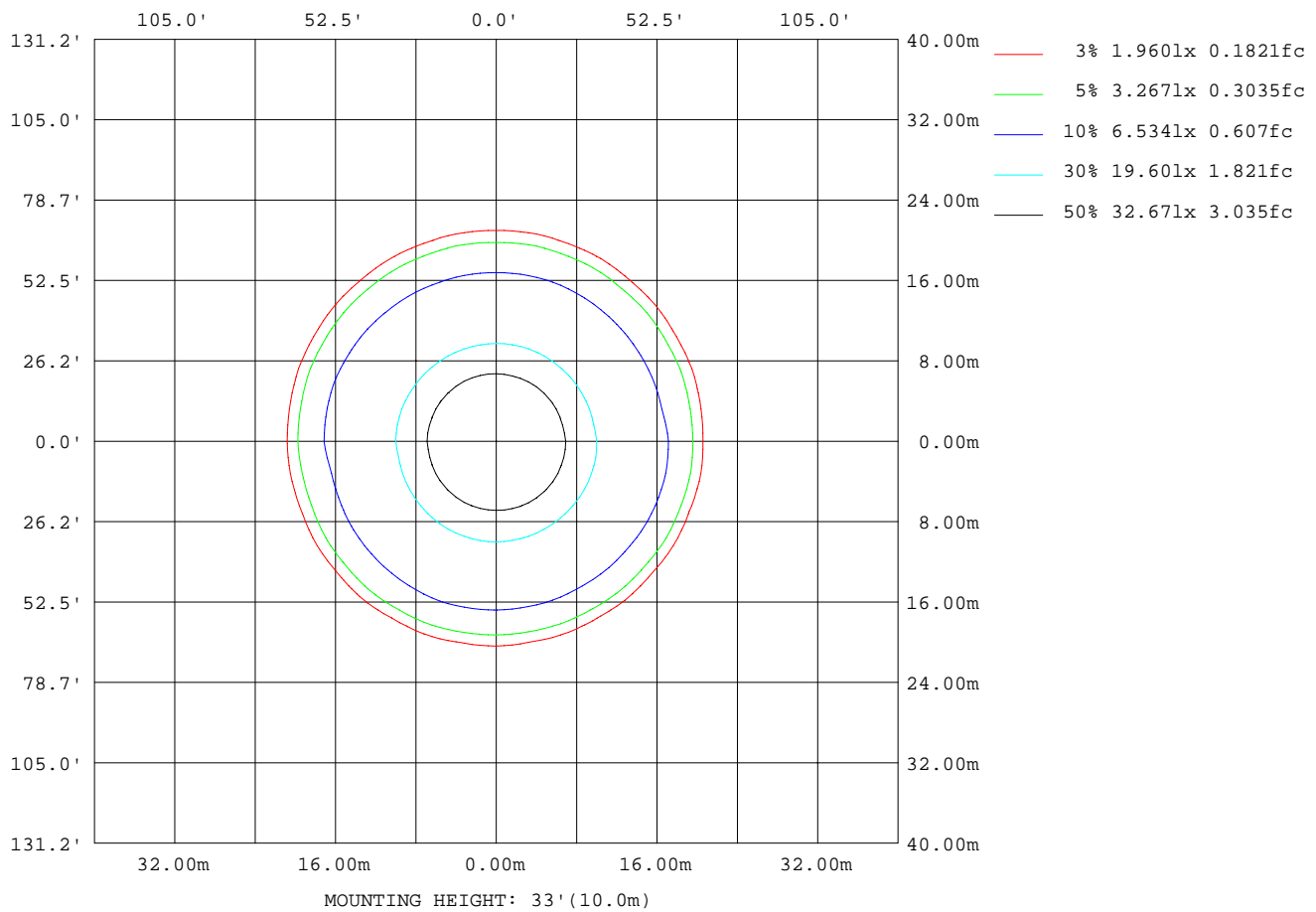
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-120D	DIM.: $\Phi$ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: $\Phi$ 0.24M	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 0.24M	Shielding Angle:

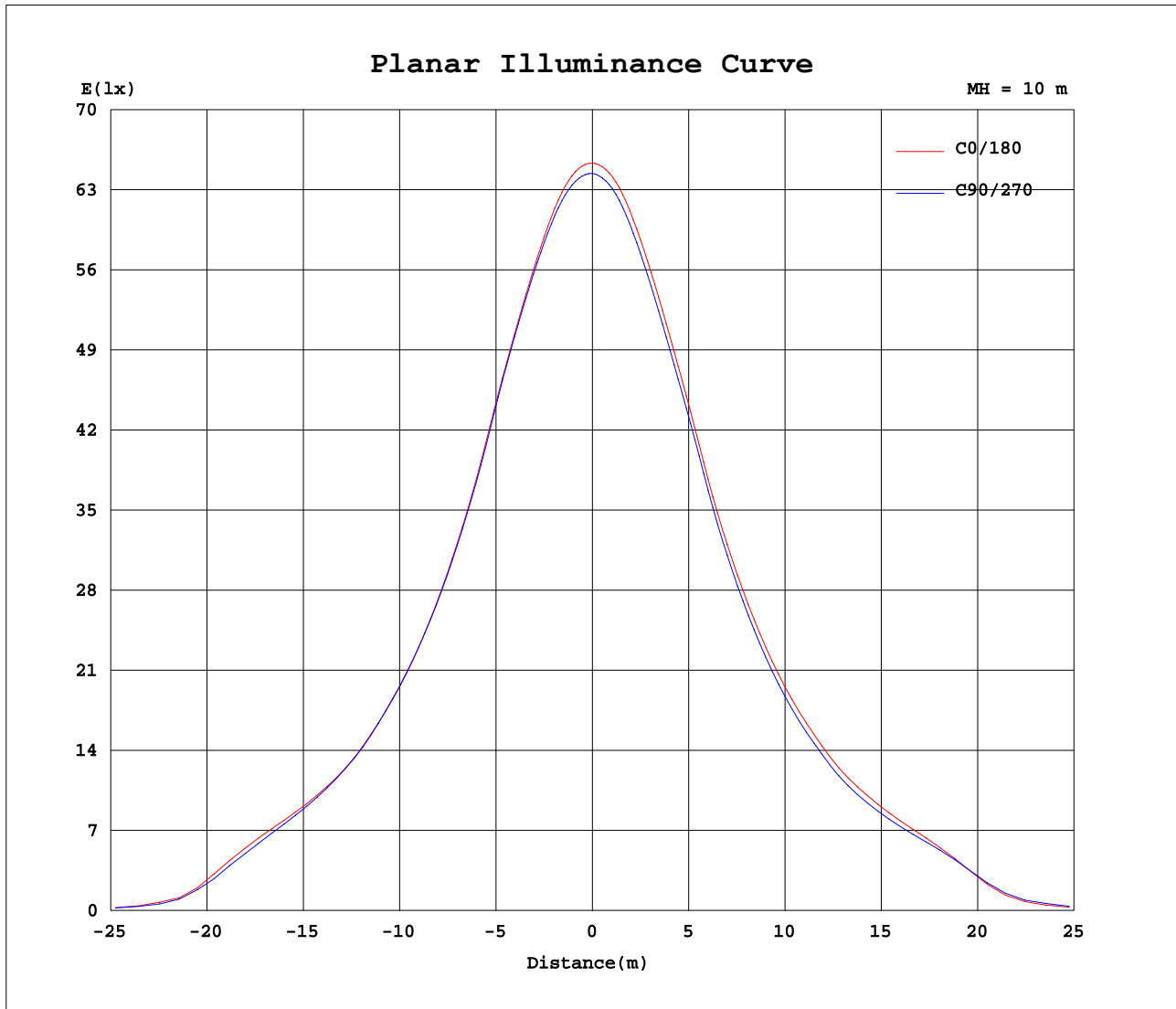
AvgL	cd/m2
L_0~180 (65) av	38149
L_0~180 (75) av	8357
L_0~180 (85) av	1680
L_90~270 (65) av	39556
L_90~270 (75) av	10417
L_90~270 (85) av	1841
L_45 (65) av	39563
L_45 (75) av	10506
L_45 (85) av	1729

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: 2018-03-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-120D	DIM.: $\phi$ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: $\phi$ 0.24M	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	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457
5	6456	6459	6461	6462	6464	6465	6464	6466	6465	6462	6462	6461	6456	6457	6454	6451	6449	6447	6446
10	6427	6433	6437	6444	6448	6451	6450	6452	6448	6446	6443	6442	6436	6436	6430	6425	6419	6414	6405
15	6358	6371	6376	6388	6393	6401	6401	6405	6402	6398	6393	6393	6385	6384	6375	6366	6356	6347	6333
20	6282	6296	6304	6318	6325	6336	6338	6342	6338	6335	6330	6329	6319	6315	6303	6291	6277	6264	6248
25	6181	6199	6208	6225	6232	6246	6245	6251	6242	6238	6230	6229	6218	6217	6206	6193	6177	6162	6148
30	5978	5996	6009	6043	6061	6081	6067	6055	6028	6015	6001	6004	6012	6027	6022	6020	5998	5977	5966
35	5780	5802	5802	5834	5836	5854	5845	5851	5834	5829	5834	5843	5828	5825	5813	5801	5786	5764	5751
40	5613	5629	5653	5651	5641	5649	5650	5666	5674	5676	5682	5692	5666	5638	5621	5611	5594	5582	5598
45	5466	5510	5505	5516	5487	5496	5504	5534	5538	5563	5564	5540	5534	5497	5459	5441	5437	5424	5464
50	5341	5374	5359	5364	5351	5355	5365	5385	5387	5394	5382	5359	5336	5341	5302	5279	5283	5263	5357
55	5286	5287	5280	5260	5230	5200	5200	5231	5252	5265	5251	5228	5204	5183	5143	5088	5063	5066	5257
60	5014	5051	4985	4903	4768	4757	4654	4705	4665	4717	4732	4810	4742	4737	4711	4717	4684	4733	5019
65	1464	1464	1345	1370	1274	1309	1231	1286	1237	1332	1317	1436	1415	1551	1521	1633	1607	1728	1760
70	328	325	313	314	317	322	322	327	328	333	339	351	365	388	402	418	432	455	365
75	201	201	197	201	210	219	225	227	231	230	239	243	257	274	284	299	307	326	232
80	80.0	83.5	81.2	85.4	85.9	91.0	92.9	101	102	109	111	122	129	134	131	141	134	141	92.5
85	14.2	15.9	15.5	15.8	14.2	14.6	13.5	14.1	14.2	16.0	16.6	18.0	17.0	17.0	15.4	15.6	14.8	16.2	15.0
90	4.92	6.28	6.95	6.19	5.09	4.27	3.49	3.37	4.24	5.26	6.60	6.99	6.74	5.53	4.34	3.30	3.51	4.38	5.10
95	9.04	11.9	13.3	12.5	10.3	9.22	6.96	5.75	8.85	10.2	12.8	13.6	12.6	10.04	8.32	5.63	5.62	8.17	9.54
100	20.2	23.0	25.3	28.3	24.6	23.7	19.3	18.7	23.5	23.8	25.6	24.6	26.3	23.3	22.3	17.3	17.8	23.5	22.9
105	40.3	54.6	60.4	60.2	43.7	41.3	38.4	36.3	37.7	45.4	53.5	55.2	53.9	49.2	44.0	40.3	41.2	44.0	48.7
110	49.9	73.3	98.8	71.1	55.7	55.7	51.3	50.2	52.8	58.6	68.9	94.7	68.6	57.9	53.9	52.2	52.6	54.0	54.0
115	111	90.3	139	81.1	92.9	64.2	63.0	64.1	67.6	105	113	136	80.6	88.4	63.8	66.9	66.5	65.9	95.4
120	147	164	177	172	148	107	103	110	133	156	174	183	154	136	102	102	112	130	153
125	191	231	288	257	221	232	230	227	218	202	224	281	254	197	208	216	219	223	206
130	245	354	396	335	256	238	227	221	217	237	334	379	323	262	238	220	209	203	225
135	355	495	531	414	369	301	286	285	301	345	480	525	406	343	286	276	278	286	333
140	507	602	579	528	471	411	403	408	446	501	541	567	512	471	398	379	382	377	475
145	576	585	596	593	547	500	503	505	501	559	579	584	574	536	473	473	472	423	574
150	519	580	573	568	473	488	494	496	482	567	574	569	554	452	460	470	468	424	490
155	452	565	464	462	462	466	468	468	466	465	550	448	446	446	447	448	448	449	451
160	330	480	479	476	476	478	480	481	480	332	464	462	461	461	462	463	464	464	465
165	337	490	491	489	488	489	491	490	339	340	474	460	473	472	473	474	473	329	475
170	340	496	500	497	495	496	344	342	342	344	472	485	481	479	480	333	332	333	482
175	476	506	505	501	496	361	383	386	417	453	490	490	485	482	355	371	383	402	346
180	498	544	641	545	483	484	483	483	428	455	580	639	543	487	486	486	486	486	500

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

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:0.6940A P:148.6W PF:0.9723 Freq:49.80Hz Lamp Flux:21419.2x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-120D									DIM.: $\phi$ 0.319*0.138M						SERIAL No.:		
MFR.: AOK									SUR.: $\phi$ 0.24M						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	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457	6457		
5	6444	6440	6437	6436	6433	6431	6432	6434	6433	6436	6438	6437	6443	6444	6445	6449	6452		
10	6396	6392	6386	6386	6381	6380	6378	6378	6375	6380	6382	6387	6394	6402	6406	6416	6422		
15	6322	6317	6309	6307	6302	6299	6296	6293	6287	6291	6295	6302	6311	6324	6333	6344	6351		
20	6238	6231	6221	6217	6209	6206	6202	6199	6194	6197	6200	6209	6218	6230	6241	6254	6264		
25	6135	6126	6115	6109	6101	6097	6093	6089	6084	6087	6089	6097	6108	6121	6132	6149	6161		
30	5944	5948	5942	5946	5941	5944	5930	5920	5902	5903	5899	5917	5932	5957	5966	5977	5976		
35	5735	5718	5722	5725	5711	5707	5693	5677	5661	5663	5661	5693	5710	5722	5730	5752	5755		
40	5577	5575	5534	5520	5501	5489	5472	5473	5474	5481	5491	5491	5499	5514	5530	5547	5577		
45	5457	5425	5382	5345	5315	5304	5280	5293	5303	5323	5317	5315	5310	5339	5354	5393	5415		
50	5339	5293	5260	5221	5181	5159	5149	5144	5158	5179	5139	5138	5130	5168	5207	5253	5238		
55	5211	5155	5116	5090	5034	4998	4972	4979	4996	4973	4954	4969	4973	4973	5019	5056	5078		
60	5026	5074	4985	4969	4894	4875	4830	4839	4815	4839	4847	4807	4760	4768	4755	4795	4803		
65	1778	1943	1940	2037	1976	2068	2006	2081	2012	2073	1971	2003	1852	1858	1733	1746	1617		
70	363	380	398	416	435	447	451	467	468	461	445	449	437	432	419	413	399		
75	238	251	274	290	308	309	313	314	309	310	307	307	296	293	282	271	259		
80	100	107	113	117	116	114	114	111	106	104	108	107	107	106	102	101	101		
85	15.5	16.2	15.6	15.1	13.9	14.3	14.2	15.5	16.1	17.4	17.1	17.1	15.3	15.4	14.1	14.5	14.4		
90	5.89	5.88	5.73	5.04	4.30	3.85	3.98	4.10	4.80	5.58	5.90	5.31	4.70	3.83	2.81	2.98	3.94		
95	11.8	12.2	11.8	8.89	7.45	5.73	6.03	7.07	7.91	10.5	11.3	10.8	9.35	7.48	4.26	5.56	7.90		
100	26.8	20.6	20.5	17.9	19.0	16.3	16.6	18.8	19.2	19.7	21.8	23.8	23.4	20.5	15.6	16.9	20.6		
105	55.2	53.8	50.5	39.9	39.3	37.3	39.4	39.7	42.2	52.3	51.3	50.7	43.7	35.6	33.1	34.1	37.1		
110	78.3	93.0	69.6	55.8	52.3	53.1	53.1	51.9	50.7	70.7	90.8	59.9	55.2	50.4	46.1	46.6	51.3		
115	105	139	90.3	90.5	71.7	71.4	72.3	71.1	95.1	87.5	134	81.5	81.2	67.3	66.2	65.6	67.8		
120	178	192	161	144	123	111	114	131	153	174	192	169	136	103	97.9	101	115		
125	225	248	233	222	238	247	237	235	213	254	284	222	198	218	216	212	201		
130	330	394	299	235	213	205	206	213	249	340	398	315	244	214	202	202	208		
135	461	515	415	362	301	287	294	307	353	463	515	431	375	301	287	286	306		
140	518	500	493	478	425	398	400	433	457	506	553	467	410	338	405	399	424		
145	587	590	584	450	496	501	497	496	579	578	567	580	550	486	462	416	488		
150	558	572	551	473	416	468	478	467	453	565	562	567	441	453	459	435	448		
155	448	448	536	456	457	456	456	455	453	451	451	582	444	444	444	443	309		
160	464	464	433	325	471	471	431	469	468	468	467	456	319	457	457	455	455		
165	474	475	434	331	317	455	463	332	479	480	479	449	323	323	468	467	467		
170	482	483	439	335	304	295	385	487	485	487	486	452	327	327	327	452	475		
175	485	486	489	425	372	317	302	315	487	489	490	490	433	378	356	344	328		
180	521	629	547	484	483	483	482	440	483	605	638	546	486	486	486	486	486		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-03-13

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: