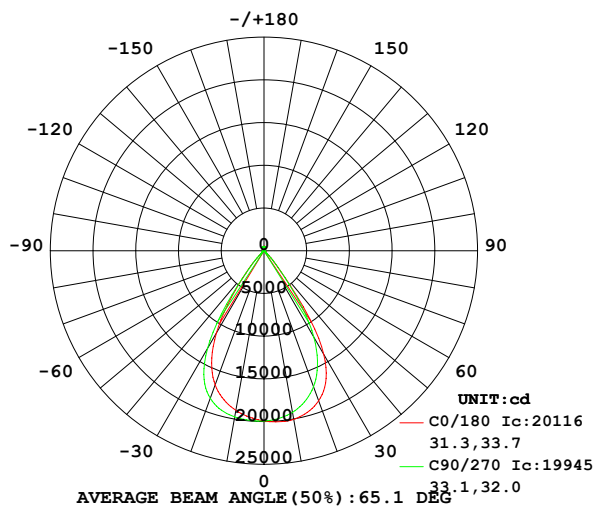


LUMINAIRE PHOTOMETRIC TEST REPORT

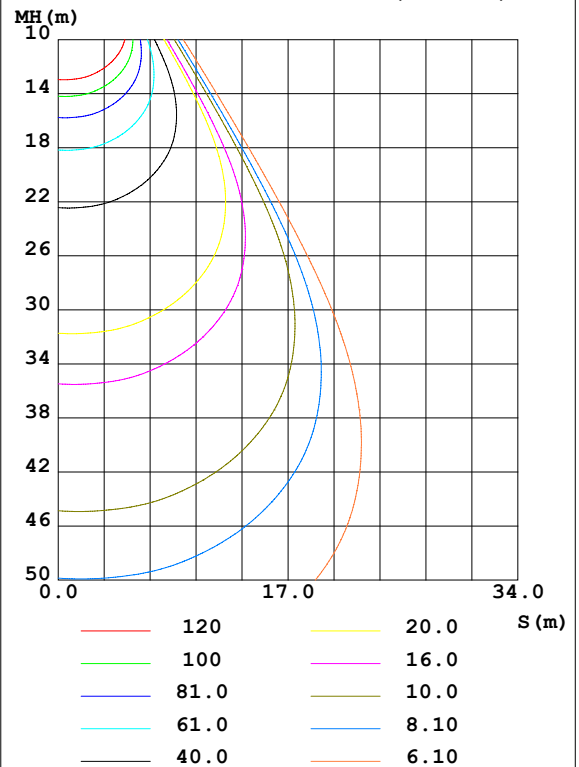
Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm					
NAME: AOK oH		TYPE:LED		WEIGHT:4.6KG	
SPEC.:AOK-150Woh-3030-60D		DIM.: $\phi 0.319 \times 0.138M$		SERIAL No.:	
MFR.: AOK		SUR.: $\phi 0.24M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 144.68 lm/W
MODEL	3030	I _{max} (cd)	20116	S/MH (C0/180)	0.92	
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.96	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	21587	η UP, DN (C0-180)	3.1, 45.9	
NOMINAL FLUX (lm)	21586.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.0, 48.0	
LAMPS INSIDE	1	η up (%)	6.1	CIBSE SHR NOM	1.00	
TEST VOLTAGE (V)	220	η down (%)	93.9	CIBSE SHR MAX	1.00	

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

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	2005	1971	1921	1894	1897	1936	1975	1997	0- 10	1882	1882	8.72,8.72
20	1870	1788	1695	1659	1671	1751	1839	1887	10- 20	5290	7172	33.2,33.2
30	1399	1279	1167	1115	1118	1205	1324	1433	20- 30	7134	14306	66.3,66.3
40	258.7	264.4	276.4	274.9	283.3	286.1	279.2	276.5	30- 40	4530	18836	87.3,87.3
50	37.37	35.62	36.19	34.98	35.75	34.91	36.43	36.88	40- 50	840.2	19676	91.1,91.1
60	26.50	25.54	24.49	24.17	24.61	25.17	26.06	26.86	50- 60	262.2	19938	92.4,92.4
70	17.25	16.01	15.64	15.20	15.90	16.46	17.09	17.49	60- 70	210.3	20149	93.3,93.3
80	3.999	3.717	3.661	3.737	3.822	4.303	4.295	4.351	70- 80	107.2	20256	93.8,93.8
90	0.4065	0.5149	0.4198	0.5639	0.4261	0.4996	0.3987	0.4634	80- 90	12.77	20269	93.9,93.9
100	2.142	2.542	2.317	2.410	2.321	1.864	1.898	2.240	90-100	11.07	20280	93.9,93.9
110	4.745	5.846	4.692	5.869	4.841	5.883	4.883	5.078	100-110	42.13	20322	94.1,94.1
120	11.11	14.29	12.75	13.07	12.87	14.16	13.06	13.78	110-120	84.44	20406	94.5,94.5
130	20.36	26.27	20.74	26.37	19.50	23.59	21.05	24.80	120-130	181.5	20588	95.4,95.4
140	46.51	47.88	46.23	48.14	43.88	49.77	45.69	50.10	130-140	275.9	20864	96.7,96.7
150	45.81	50.42	49.13	49.27	46.81	48.40	46.90	49.02	140-150	323.6	21187	98.1,98.1
160	47.79	49.56	43.21	48.59	48.73	39.46	48.85	40.53	150-160	223.8	21411	99.2,99.2
170	36.58	52.38	37.50	51.29	51.25	39.87	36.32	39.82	160-170	131.1	21542	99.8,99.8
180	52.86	52.60	51.70	52.82	53.04	52.68	51.67	52.89	170-180	44.44	21587	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 19470 lm

%lum = 90.2%

%lamp = 90.2%

Conical surface Flux(120deg): 19938 lm

%lum = 92.4%

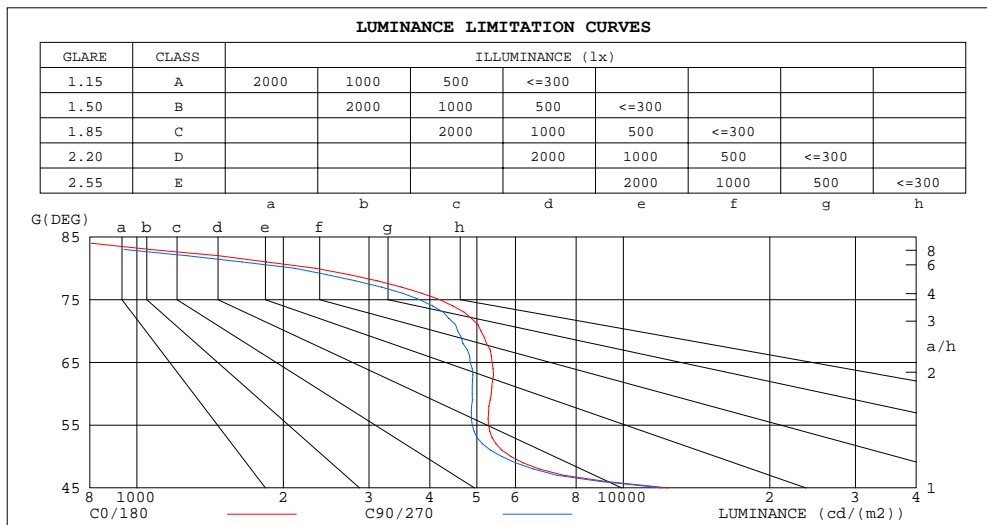
%lamp = 92.4%

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
 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:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	713	697
80	2326	2105
75	4189	3810
70	5095	4566
65	5374	4843
60	5354	4891
55	5285	4892
50	5872	5622
45	12370	12036

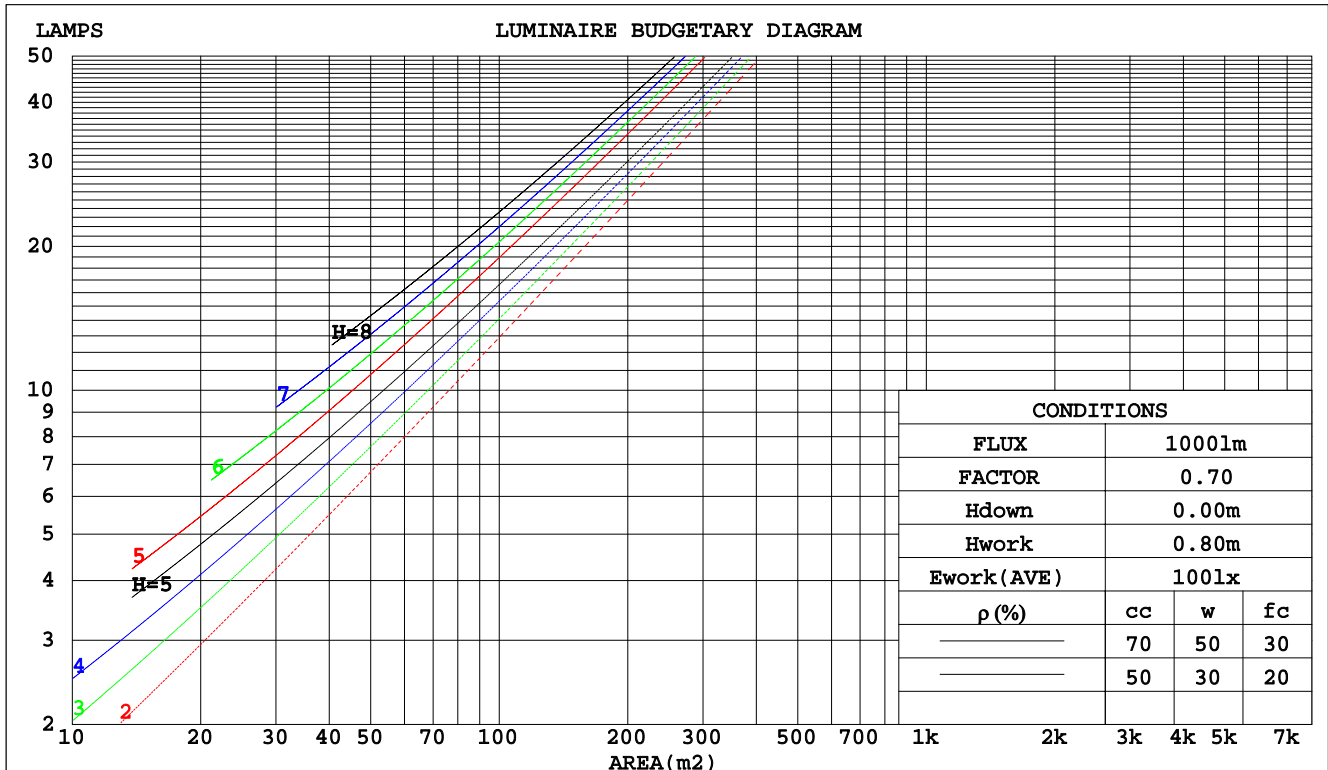
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-13

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:
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	1.18	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	1.09	1.06	1.04	1.06	1.04	1.02	1.01	.99	.97	.96	.95	.93	.92	.91	.90	.87
2.0	1.01	.96	.93	.98	.95	.91	.94	.91	.88	.90	.88	.86	.87	.85	.83	.81
3.0	.93	.88	.84	.92	.87	.83	.88	.84	.81	.85	.82	.79	.82	.79	.77	.75
4.0	.87	.81	.77	.85	.80	.76	.82	.78	.74	.80	.76	.73	.77	.74	.72	.70
5.0	.81	.75	.71	.80	.74	.70	.77	.73	.69	.75	.71	.68	.73	.69	.67	.65
6.0	.76	.70	.65	.75	.69	.65	.73	.68	.64	.71	.66	.63	.69	.65	.62	.60
7.0	.71	.65	.61	.70	.64	.60	.68	.63	.59	.67	.62	.59	.65	.61	.58	.56
8.0	.67	.61	.56	.66	.60	.56	.64	.59	.56	.63	.58	.55	.61	.57	.54	.53
9.0	.63	.57	.53	.62	.56	.52	.61	.56	.52	.59	.55	.51	.58	.54	.51	.50
10.0	.59	.53	.49	.59	.53	.49	.57	.52	.49	.56	.52	.48	.55	.51	.48	.47



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:

WEC AND CCEC

Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: ϕ 0.319*0.138M	SERIAL No.:
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	.188	.107	.034	.179	.102	.032	.163	.094	.030	.148	.086	.027	.135	.078	.025	
2.0	.179	.098	.030	.172	.095	.029	.158	.088	.027	.145	.081	.026	.133	.075	.024	
3.0	.170	.091	.027	.164	.088	.026	.152	.082	.025	.140	.077	.024	.130	.072	.022	
4.0	.162	.084	.025	.156	.082	.024	.145	.077	.023	.135	.073	.022	.126	.069	.021	
5.0	.154	.078	.023	.149	.076	.022	.139	.072	.021	.130	.069	.020	.122	.065	.020	
6.0	.146	.073	.021	.142	.072	.021	.133	.068	.020	.125	.065	.019	.118	.062	.018	
7.0	.140	.069	.020	.136	.068	.019	.128	.065	.019	.121	.062	.018	.114	.059	.017	
8.0	.133	.065	.018	.130	.064	.018	.123	.061	.018	.116	.059	.017	.110	.056	.016	
9.0	.128	.062	.017	.124	.061	.017	.118	.058	.017	.112	.056	.016	.106	.054	.016	
10.0	.122	.059	.016	.119	.058	.016	.113	.056	.016	.108	.054	.015	.103	.052	.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	.237	.237	.237	.203	.203	.203	.138	.138	.138	.079	.079	.079	.025	.025	.025	
1.0	.219	.204	.191	.187	.175	.164	.128	.121	.114	.074	.070	.066	.024	.022	.021	
2.0	.204	.180	.159	.175	.155	.137	.120	.107	.096	.069	.062	.056	.022	.020	.018	
3.0	.193	.161	.136	.165	.139	.118	.113	.097	.083	.066	.056	.049	.021	.018	.016	
4.0	.183	.147	.119	.157	.127	.103	.108	.088	.073	.062	.052	.043	.020	.017	.014	
5.0	.175	.135	.106	.150	.117	.093	.103	.082	.065	.060	.048	.039	.019	.016	.013	
6.0	.167	.126	.097	.144	.109	.084	.099	.077	.060	.058	.045	.035	.019	.015	.012	
7.0	.161	.119	.089	.139	.103	.078	.096	.072	.055	.056	.043	.033	.018	.014	.011	
8.0	.156	.113	.084	.134	.098	.073	.093	.069	.052	.054	.041	.031	.017	.013	.010	
9.0	.151	.108	.079	.130	.094	.069	.090	.066	.049	.052	.039	.029	.017	.013	.010	
10.0	.146	.104	.075	.126	.090	.066	.087	.063	.047	.051	.037	.028	.017	.012	.009	

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:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm												
NAME: AOK oH					TYPE:LED			WEIGHT:4.6KG				
SPEC.:AOK-150WoH-3030-60D					DIM.: ϕ 0.319*0.138M			SERIAL No.:				
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	2H	8.9	9.8	9.2	10.1	10.3	8.0	8.9	8.3	9.2	9.4	
	3H	8.8	9.7	9.2	10.0	10.3	7.9	8.8	8.3	9.1	9.4	
	4H	8.8	9.6	9.1	9.9	10.2	7.9	8.7	8.3	9.0	9.4	
	6H	8.7	9.5	9.1	9.8	10.2	7.8	8.6	8.2	8.9	9.3	
	8H	8.7	9.4	9.1	9.7	10.1	7.8	8.5	8.2	8.9	9.3	
	12H	8.6	9.3	9.0	9.7	10.1	7.7	8.4	8.2	8.8	9.2	
	4H	2H	8.6	9.4	9.0	9.8	10.1	7.8	8.6	8.1	8.9	9.2
		3H	8.6	9.3	9.0	9.7	10.1	7.8	8.5	8.2	8.8	9.2
		4H	8.6	9.2	9.1	9.6	10.1	7.8	8.4	8.2	8.8	9.3
		6H	8.6	9.1	9.0	9.6	10.0	7.7	8.3	8.2	8.7	9.2
		8H	8.5	9.0	9.0	9.5	10.0	7.7	8.2	8.2	8.6	9.1
		12H	8.5	8.9	9.0	9.4	9.9	7.6	8.1	8.1	8.6	9.1
8H	4H	8.5	9.0	9.0	9.5	10.0	7.7	8.2	8.2	8.6	9.1	
	6H	8.4	8.9	9.0	9.4	9.9	7.6	8.1	8.2	8.6	9.1	
	8H	8.4	8.8	8.9	9.3	9.9	7.6	8.0	8.1	8.5	9.0	
	12H	8.3	8.7	8.9	9.2	9.8	7.5	7.8	8.1	8.4	9.0	
12H	4H	8.4	8.9	8.9	9.4	9.9	7.6	8.1	8.1	8.6	9.1	
	6H	8.4	8.8	8.9	9.3	9.8	7.6	7.9	8.1	8.5	9.0	
	8H	8.3	8.7	8.9	9.2	9.8	7.5	7.8	8.1	8.4	9.0	
Variations with the observer position at spacings:												
S = 1.0H		+ 3.5 / - 4.4					+ 3.3 / - 4.6					
1.5H		+ 5.9 / - 4.3					+ 5.7 / - 4.4					
2.0H		+ 2.6 / - 0.8					+ 2.7 / - 0.7					

CIE Pub.117, 21587 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: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:

UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

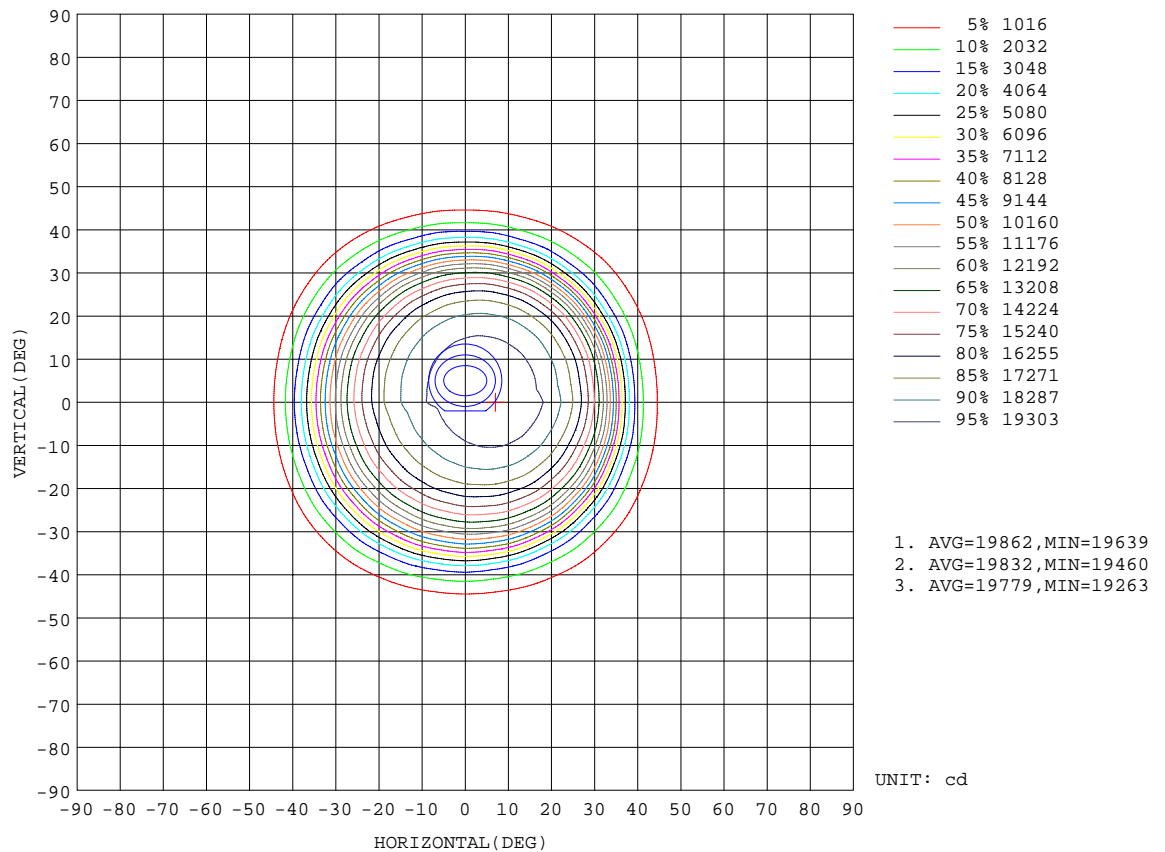
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	77	73	83	77	73	82	76	73	69
0.80	91	85	81	90	84	81	88	83	80	76
1.00	96	90	86	95	89	85	92	88	85	80
1.25	100	94	91	98	93	90	96	92	89	83
1.50	103	98	94	101	97	93	98	94	92	86
2.00	106	101	98	104	100	97	100	97	94	88
2.50	108	104	100	106	102	99	101	99	96	89
3.00	109	106	103	107	104	101	103	100	98	90
4.00	112	109	106	109	106	104	104	102	101	92
5.00	113	110	108	110	108	106	105	104	102	93
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:2018-03-13

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:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



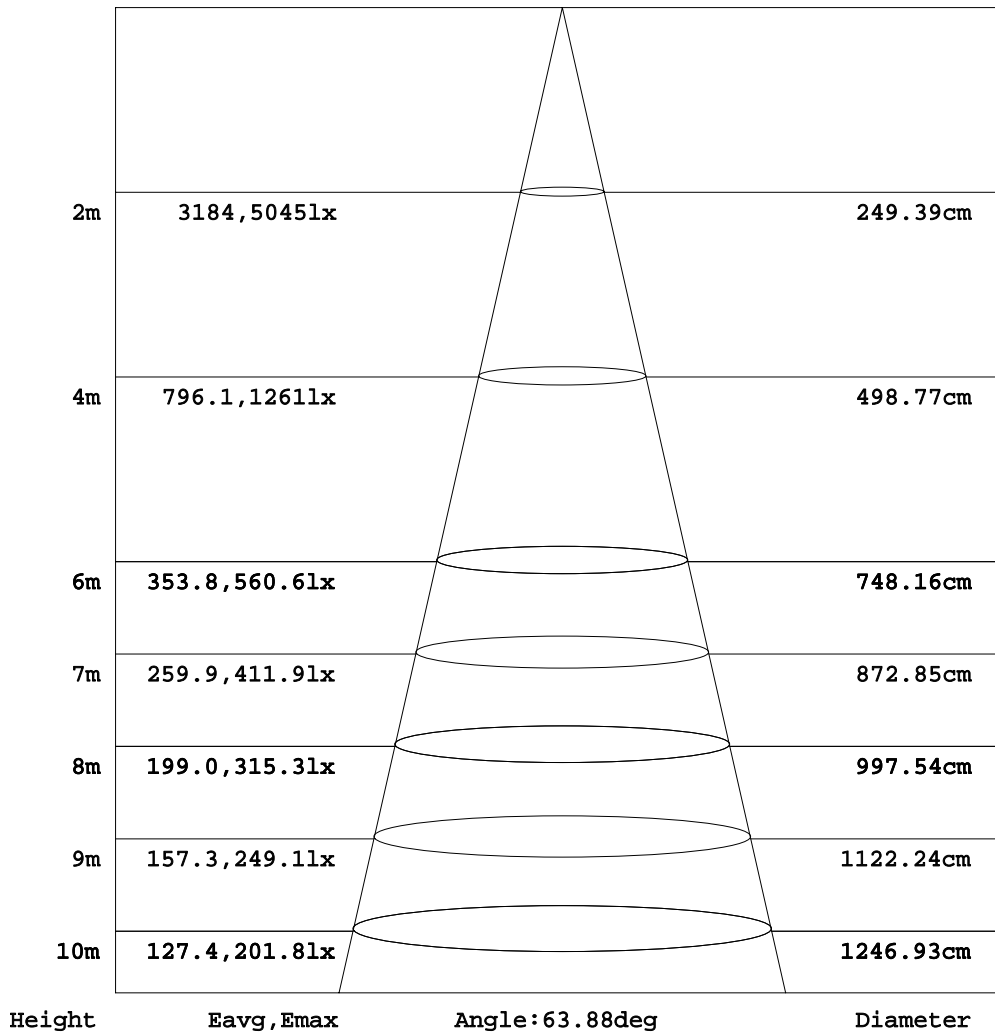
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-13

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:

AAI Figure

Test:U:220.2V I:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Flux out:15625 lm



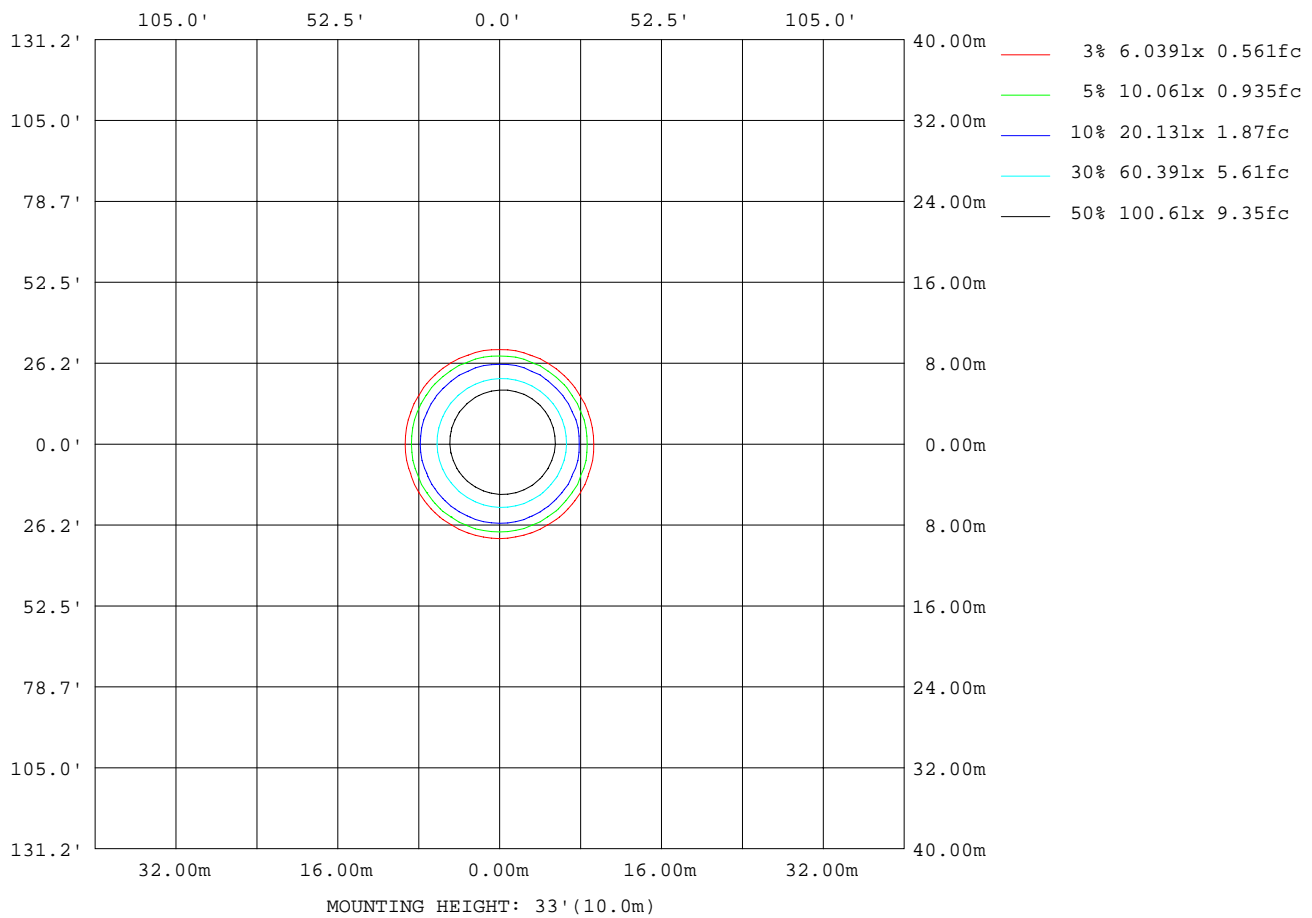
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-3030-60D	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

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:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-3030-60D	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

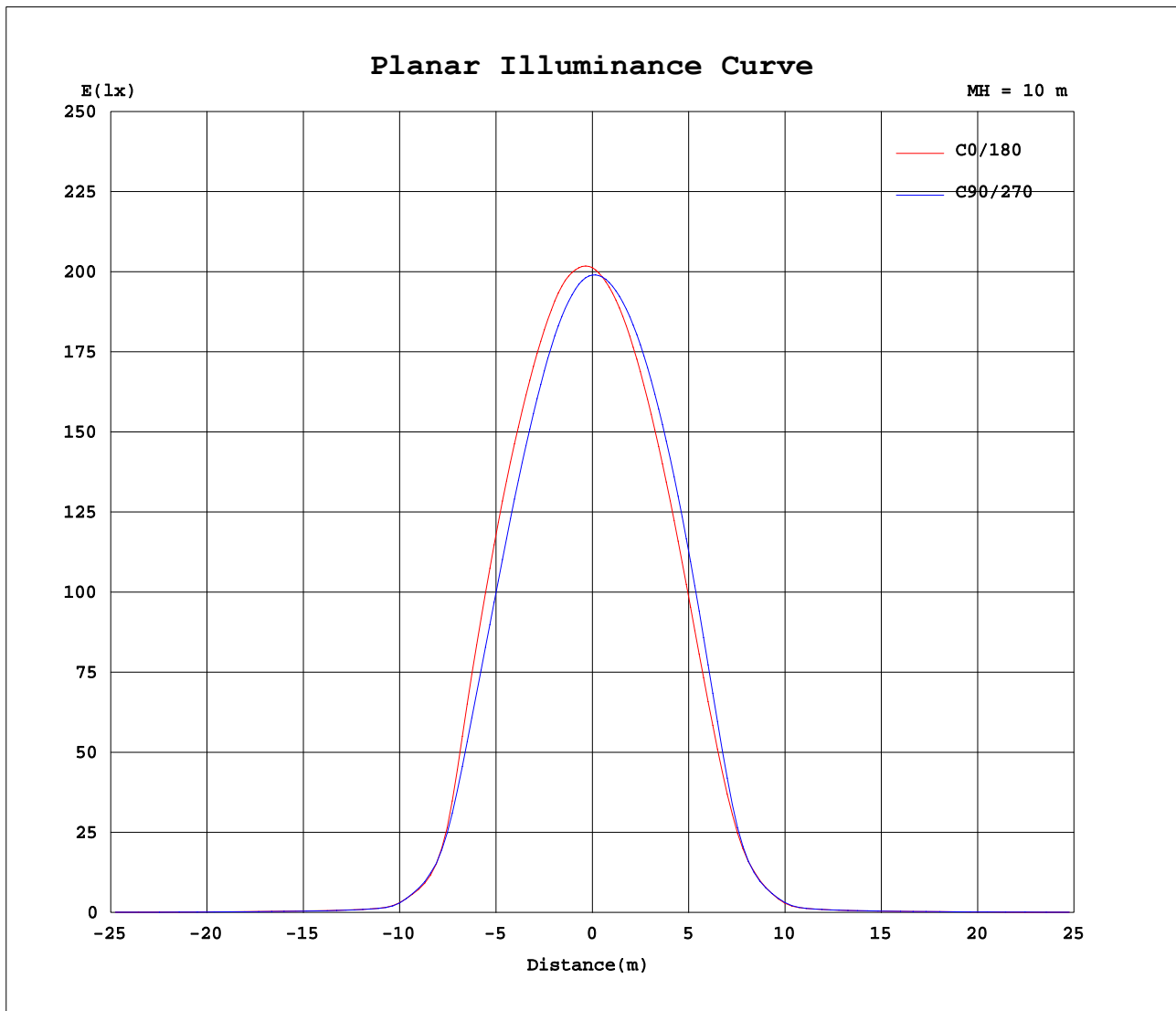
AvgL	cd/m2
L_0~180 (65) av	5100
L_0~180 (75) av	4040
L_0~180 (85) av	715
L_90~270 (65) av	5049
L_90~270 (75) av	3975
L_90~270 (85) av	715
L_45 (65) av	5066
L_45 (75) av	3981
L_45 (85) av	778

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

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: 2018-03-13

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:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm																		
NAME: AOK oH									TYPE:LED					WEIGHT:4.6KG				
SPEC.:AOK-150WoH-3030-60D									DIM.: ϕ 0.319*0.138M					SERIAL No.:				
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	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
5	2009	2008	2006	2004	2000	1995	1989	1983	1977	1971	1966	1962	1959	1957	1955	1954	1954	1956	1955
10	2005	2001	1993	1986	1976	1967	1954	1943	1930	1921	1911	1904	1898	1895	1892	1893	1894	1898	1897
15	1959	1952	1940	1929	1912	1898	1878	1863	1844	1832	1818	1811	1802	1800	1797	1800	1801	1808	1808
20	1870	1857	1837	1822	1798	1779	1753	1733	1709	1695	1679	1672	1662	1661	1657	1661	1662	1672	1671
25	1708	1690	1659	1639	1606	1584	1549	1527	1497	1483	1462	1456	1444	1445	1439	1446	1446	1458	1452
30	1399	1384	1348	1326	1290	1268	1231	1211	1181	1167	1144	1136	1119	1120	1111	1118	1114	1125	1118
35	804	813	782	779	742	741	713	714	692	696	676	680	664	667	652	662	654	670	665
40	259	272	260	271	259	270	260	273	264	276	268	279	270	280	270	279	271	282	283
45	86.6	89.9	87.7	91.0	88.1	90.8	86.7	88.2	83.8	85.2	81.8	84.7	82.1	85.1	81.9	84.3	80.5	82.3	81.3
50	37.4	37.5	36.7	36.5	35.6	35.6	35.2	35.7	35.6	36.2	36.0	36.0	35.3	35.3	34.7	34.9	34.8	35.4	35.8
55	30.0	30.0	29.6	29.3	28.8	28.5	28.2	28.2	28.0	28.1	28.0	28.1	27.8	27.7	27.4	27.4	27.3	27.6	27.9
60	26.5	26.6	26.3	26.1	25.7	25.4	25.2	25.0	24.7	24.5	24.5	24.4	24.4	24.2	24.2	24.1	24.2	24.2	24.6
65	22.5	22.3	22.1	21.8	21.7	21.3	21.1	20.8	20.7	20.5	20.5	20.3	20.2	20.1	20.1	20.4	20.5	20.5	20.6
70	17.3	17.0	16.4	16.2	15.9	16.2	15.9	15.9	15.6	15.6	15.4	15.0	14.9	14.9	15.5	15.4	15.6	15.7	15.9
75	10.7	10.5	9.99	10.1	9.83	9.99	9.80	9.91	9.72	9.88	9.56	9.33	9.07	9.40	9.69	9.84	9.89	10.03	10.2
80	4.00	4.11	3.91	3.96	3.67	3.76	3.67	3.70	3.50	3.66	3.65	3.88	3.76	3.82	3.65	3.77	3.71	3.84	3.82
85	0.62	0.68	0.76	0.77	0.69	0.62	0.59	0.57	0.54	0.61	0.66	0.77	0.75	0.72	0.62	0.59	0.56	0.61	0.63
90	0.41	0.48	0.64	0.64	0.57	0.46	0.39	0.33	0.32	0.42	0.53	0.64	0.70	0.61	0.51	0.38	0.32	0.34	0.43
95	0.82	0.89	1.18	1.24	1.13	0.92	0.84	0.52	0.59	0.87	1.02	1.31	1.35	1.16	0.99	0.73	0.49	0.59	0.81
100	2.14	1.90	2.28	2.44	2.64	2.44	2.12	1.70	1.79	2.32	2.14	2.40	2.43	2.42	2.40	1.99	1.58	1.78	2.32
105	3.49	3.84	5.35	5.65	5.20	4.22	3.71	3.53	3.33	3.48	4.07	5.41	5.34	4.86	4.78	4.01	3.73	3.83	4.01
110	4.74	4.47	7.81	8.72	6.37	5.32	4.95	4.49	4.60	4.69	5.06	7.05	8.84	6.42	5.31	4.88	4.71	4.75	4.84
115	6.88	10.2	9.33	11.7	8.16	7.64	5.63	5.72	5.64	6.48	10.6	9.63	11.8	7.95	7.61	5.79	5.96	5.88	6.06
120	11.1	14.6	15.7	15.8	16.2	12.4	9.33	9.51	10.4	12.7	15.3	16.6	15.7	14.4	11.8	9.10	9.71	10.5	12.9
125	18.6	17.6	22.9	26.6	22.4	21.1	21.8	21.5	21.5	20.4	18.7	21.5	27.1	22.4	18.7	20.2	20.8	21.1	21.1
130	20.4	24.5	35.9	38.0	28.6	23.9	22.4	21.6	20.9	20.7	23.6	33.4	38.4	27.9	24.9	22.5	20.9	19.9	19.5
135	30.5	37.6	50.4	51.2	38.0	31.6	28.9	27.4	28.3	29.6	36.7	49.9	50.5	37.0	32.5	27.7	27.4	27.5	29.5
140	46.5	51.6	59.6	56.3	51.7	44.0	40.2	39.8	41.2	46.2	52.0	57.5	56.0	51.4	44.9	39.0	38.4	38.4	43.9
145	49.0	57.0	58.9	59.8	58.5	54.8	50.4	50.6	51.1	50.6	56.9	58.6	58.9	58.1	52.1	48.1	48.1	48.1	48.4
150	45.8	58.3	58.0	58.1	52.3	48.6	49.9	50.7	50.4	49.1	59.4	58.3	58.1	51.8	46.7	47.7	48.3	48.2	46.8
155	46.0	55.0	54.2	47.6	47.6	47.8	48.2	48.4	48.4	48.2	56.5	52.5	46.5	46.4	46.5	46.6	46.9	46.8	46.6
160	47.8	34.9	49.7	49.7	49.5	49.6	49.9	50.1	50.3	43.2	35.6	48.7	48.7	48.5	48.6	48.7	48.9	49.0	48.7
165	35.7	36.2	51.4	51.4	51.2	51.3	51.5	51.8	40.0	36.8	37.0	50.6	50.5	50.2	50.3	50.3	50.5	37.6	50.2
170	36.6	37.0	52.6	52.7	52.4	52.4	52.5	37.4	37.5	37.5	37.7	51.8	51.7	51.3	51.3	51.3	36.6	36.6	51.3
175	46.5	51.7	53.5	53.5	53.0	52.8	40.0	41.4	42.9	45.3	50.3	52.5	52.4	51.8	51.6	39.1	41.2	41.6	42.2
180	52.9	53.1	67.2	67.3	53.5	51.7	51.7	51.7	51.7	51.7	51.7	62.1	67.3	53.5	52.2	52.2	52.2	52.2	53.0

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:0.6968A P:149.2W PF:0.9725 Freq:49.80Hz Lamp Flux:21586.8x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:4.6KG		
SPEC.:AOK-150WoH-3030-60D									DIM.: ϕ 0.319*0.138M						SERIAL No.:		
MFR.: AOK									SUR.: ϕ 0.24M						Shielding Angle:		

Table--2

UNIT: $\times 10\text{cd}$

γ (DEG) \ C (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993		
5	1958	1962	1966	1970	1974	1979	1984	1988	1992	1996	1999	2003	2004	2007	2008	2009	2009		
10	1905	1913	1922	1932	1941	1951	1959	1968	1975	1982	1986	1993	1995	1999	2001	2003	2003		
15	1819	1834	1847	1863	1877	1893	1906	1921	1931	1943	1949	1956	1960	1965	1966	1967	1963		
20	1686	1705	1721	1742	1761	1783	1802	1824	1839	1856	1867	1880	1885	1890	1889	1888	1880		
25	1469	1491	1510	1536	1558	1588	1611	1641	1661	1687	1705	1725	1733	1744	1743	1741	1727		
30	1128	1153	1164	1196	1214	1250	1269	1306	1324	1360	1377	1410	1422	1445	1440	1445	1425		
35	672	689	692	709	713	733	737	758	765	790	795	817	815	834	828	841	828		
40	278	290	281	292	280	292	280	292	279	291	277	287	272	281	267	280	266		
45	80.4	84.8	83.3	88.2	91.0	90.9	88.6	91.6	88.1	90.9	88.1	91.5	89.4	93.4	91.3	94.3	90.3		
50	35.6	35.7	35.0	35.0	34.8	35.4	35.5	36.2	36.4	37.1	37.0	37.1	36.7	37.0	37.0	37.6	37.5		
55	28.0	28.1	28.1	28.1	28.1	28.3	28.5	28.9	29.3	29.8	29.9	30.0	30.0	30.1	30.1	30.2	30.1		
60	24.8	25.0	25.1	25.1	25.2	25.5	25.6	25.8	26.1	26.6	26.7	26.8	26.8	26.9	26.9	26.9	26.5		
65	20.9	21.1	21.1	21.3	21.4	21.6	21.8	22.0	22.2	22.5	22.5	22.7	22.7	22.7	22.9	22.8	22.7		
70	15.6	15.5	15.8	16.2	16.8	16.8	17.0	16.8	17.1	17.1	16.9	17.1	17.2	17.8	17.6	17.4	17.2		
75	9.92	9.73	9.96	10.4	10.8	10.9	10.8	10.9	10.7	11.0	10.7	10.7	10.8	11.4	11.0	11.0	10.7		
80	3.87	4.10	4.08	4.30	4.31	4.27	4.37	4.38	4.29	4.61	4.49	4.46	4.36	4.35	4.24	4.17	3.98		
85	0.67	0.77	0.76	0.73	0.64	0.61	0.58	0.60	0.64	0.72	0.79	0.81	0.74	0.68	0.62	0.59	0.57		
90	0.50	0.58	0.58	0.53	0.47	0.39	0.41	0.33	0.40	0.46	0.58	0.56	0.50	0.42	0.32	0.26	0.29		
95	0.96	1.18	1.21	1.04	0.83	0.68	0.54	0.57	0.71	0.80	1.07	1.11	1.02	0.88	0.67	0.36	0.57		
100	2.22	2.22	2.17	1.87	1.86	1.74	1.54	1.59	1.90	1.68	2.00	2.12	2.28	2.20	1.78	1.38	1.62		
105	4.64	4.95	5.35	4.47	3.80	3.63	3.49	3.64	3.73	4.02	5.28	5.22	4.58	3.96	3.24	2.99	3.18		
110	5.13	7.08	9.27	6.40	5.37	4.76	4.88	4.82	4.88	4.56	7.29	8.32	5.37	4.78	4.44	4.08	4.20		
115	10.3	9.32	13.7	8.70	7.82	6.48	6.54	6.38	6.59	9.93	9.16	12.0	8.63	6.89	6.01	5.84	5.73		
120	15.4	16.2	15.4	15.1	13.2	10.9	10.5	10.7	13.1	15.4	16.3	17.7	15.5	12.0	9.04	8.77	9.47		
125	18.7	21.0	23.2	21.0	21.3	23.1	22.8	23.8	22.0	19.9	26.3	25.6	19.1	19.1	20.8	20.2	20.2		
130	22.7	34.0	37.5	25.4	21.8	20.2	19.6	19.8	21.1	25.1	36.1	38.4	27.2	22.4	20.3	19.2	19.3		
135	36.0	47.1	50.5	39.9	33.7	28.8	28.6	29.0	30.7	37.2	49.0	50.9	40.4	34.0	29.2	27.7	28.6		
140	42.8	56.9	56.4	53.5	46.0	41.0	39.9	39.9	45.7	46.5	52.3	58.1	54.1	46.1	41.4	39.9	40.7		
145	57.0	55.1	50.7	52.2	54.9	50.1	50.3	49.9	49.7	58.3	57.4	51.9	49.8	55.2	49.1	49.6	49.6		
150	52.0	57.9	58.2	59.1	37.7	47.8	48.7	48.5	46.9	50.7	57.2	57.1	57.8	40.3	38.4	47.0	46.5		
155	46.5	46.4	47.4	60.4	47.1	46.1	47.1	46.9	47.0	46.7	46.5	48.5	60.1	45.9	45.9	38.8	45.9		
160	48.6	48.6	48.7	40.8	38.1	49.1	48.9	48.9	48.9	48.7	48.7	48.9	41.6	39.5	47.8	47.7	41.7		
165	50.1	50.2	50.4	42.3	35.8	35.7	50.7	50.4	50.5	50.4	50.4	50.8	42.9	35.1	35.1	49.4	49.4		
170	51.1	51.4	51.6	43.2	36.6	36.5	36.4	51.5	36.3	51.5	51.6	52.0	43.7	35.9	35.9	35.8	50.5		
175	51.6	52.1	52.4	50.5	45.2	40.8	39.1	37.4	40.5	38.0	52.2	52.9	51.8	45.3	41.0	38.6	38.1		
180	53.0	67.3	67.2	53.7	51.6	51.7	51.7	51.7	51.7	51.8	65.2	67.3	53.6	52.2	52.2	52.2	52.2		

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
 γ Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks: