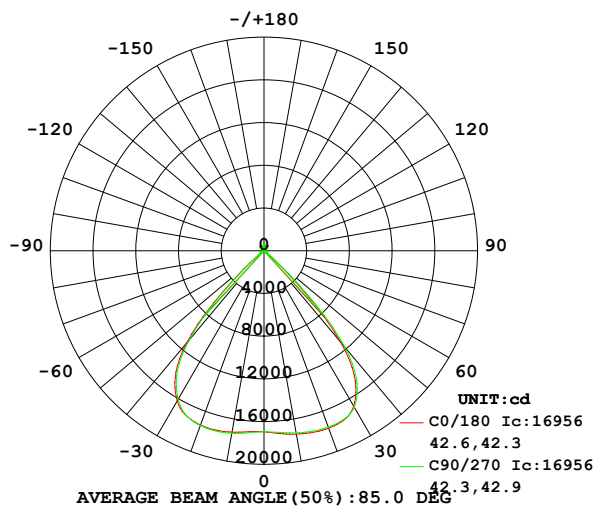


LUMINAIRE PHOTOMETRIC TEST REPORT

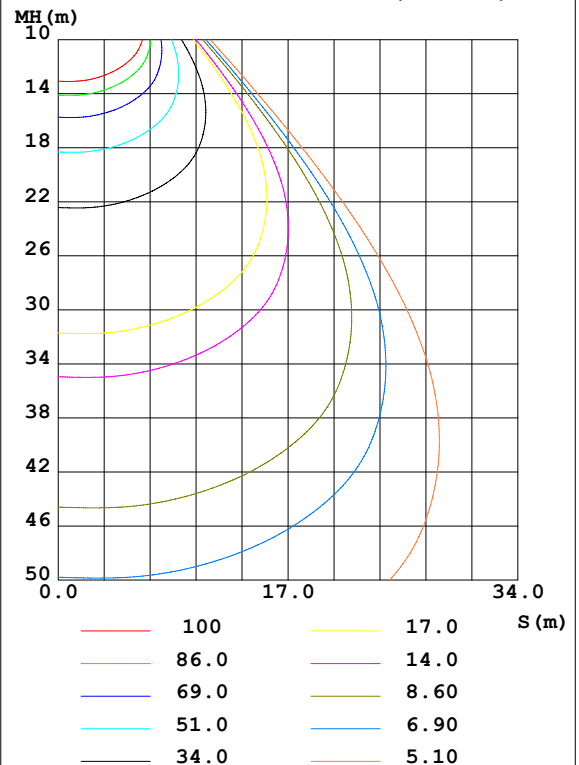
Test:U:220.2V I:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.59 lm/W			
MODEL	3030	I _{max} (cd)	17717	S/MH (C0/180)	1.25
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	30119	η UP, DN (C0-180)	2.2, 48.5
NOMINAL FLUX (lm)	30118.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.0, 47.3
LAMPS INSIDE	1	η up (%)	4.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	95.8	CIBSE SHR MAX	1.30

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: 2018-03-12

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	1743	1741	1732	1724	1725	1729	1735	1741	0- 10	1640	1640	5.44, 5.44
20	1769	1771	1757	1741	1737	1739	1742	1752	10- 20	4954	6594	21.9, 21.9
30	1681	1704	1690	1660	1626	1613	1608	1646	20- 30	7952	14546	48.3, 48.3
40	1118	1145	1178	1168	1127	1094	1088	1098	30- 40	9021	23567	78.2, 78.2
50	112.5	110.5	117.9	127.4	130.6	121.4	117.4	110.5	40- 50	4197	27764	92.2, 92.2
60	39.70	39.44	40.12	40.81	41.81	40.53	40.06	39.75	50- 60	531.7	28295	93.9, 93.9
70	25.82	25.95	25.92	26.86	27.52	26.87	25.81	25.72	60- 70	328.0	28623	95.95
80	8.749	9.304	10.37	10.78	10.89	9.925	9.471	8.645	70- 80	196.1	28820	95.7, 95.7
90	0.8532	0.4745	0.8399	0.3500	0.6693	0.3344	0.5947	0.2914	80- 90	29.76	28849	95.8, 95.8
100	3.219	2.348	3.156	1.657	2.425	1.627	2.282	1.480	90-100	12.51	28862	95.8, 95.8
110	7.109	5.594	7.263	4.257	9.408	4.284	6.687	3.752	100-110	40.08	28902	96.96
120	17.70	9.008	19.79	6.957	8.534	6.900	17.41	7.079	110-120	73.68	28976	96.2, 96.2
130	34.39	25.23	35.46	23.20	40.55	18.49	35.90	18.72	120-130	169.3	29145	96.8, 96.8
140	56.43	35.00	50.63	38.04	55.79	41.45	55.87	41.95	130-140	294.4	29439	97.7, 97.7
150	43.33	48.47	46.09	46.90	52.05	43.11	51.48	32.63	140-150	303.9	29743	98.8, 98.8
160	46.55	46.42	46.87	46.71	46.83	45.40	41.07	43.36	150-160	206.5	29950	99.4, 99.4
170	48.40	35.12	48.96	34.47	48.96	40.85	47.82	39.65	160-170	123.3	30073	99.8, 99.8
180	61.68	48.50	61.65	47.29	61.87	48.51	61.63	47.29	170-180	45.59	30119	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 26657 lm

%lum = 88.5%

%lamp = 88.5%

Conical surface Flux(120deg): 28295 lm

%lum = 93.9%

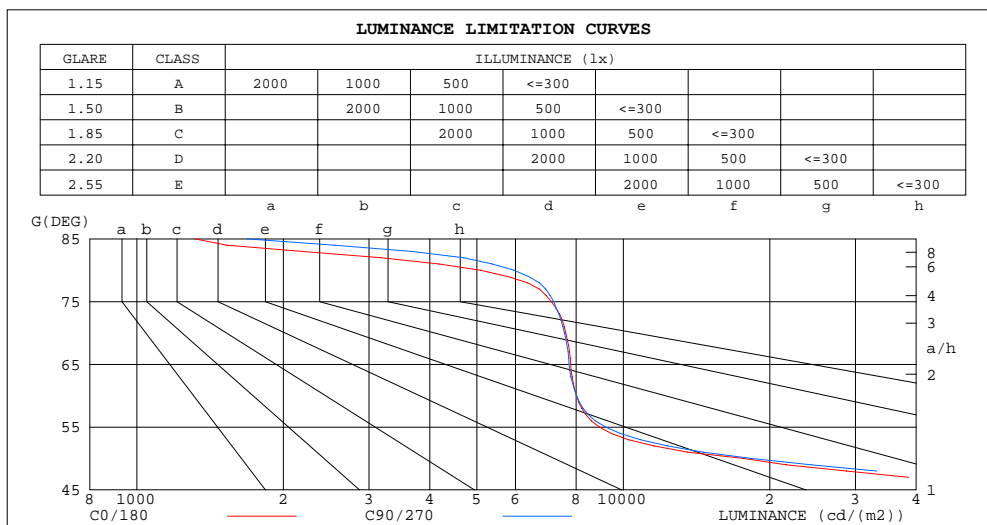
%lamp = 93.9%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-03-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.2V I:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



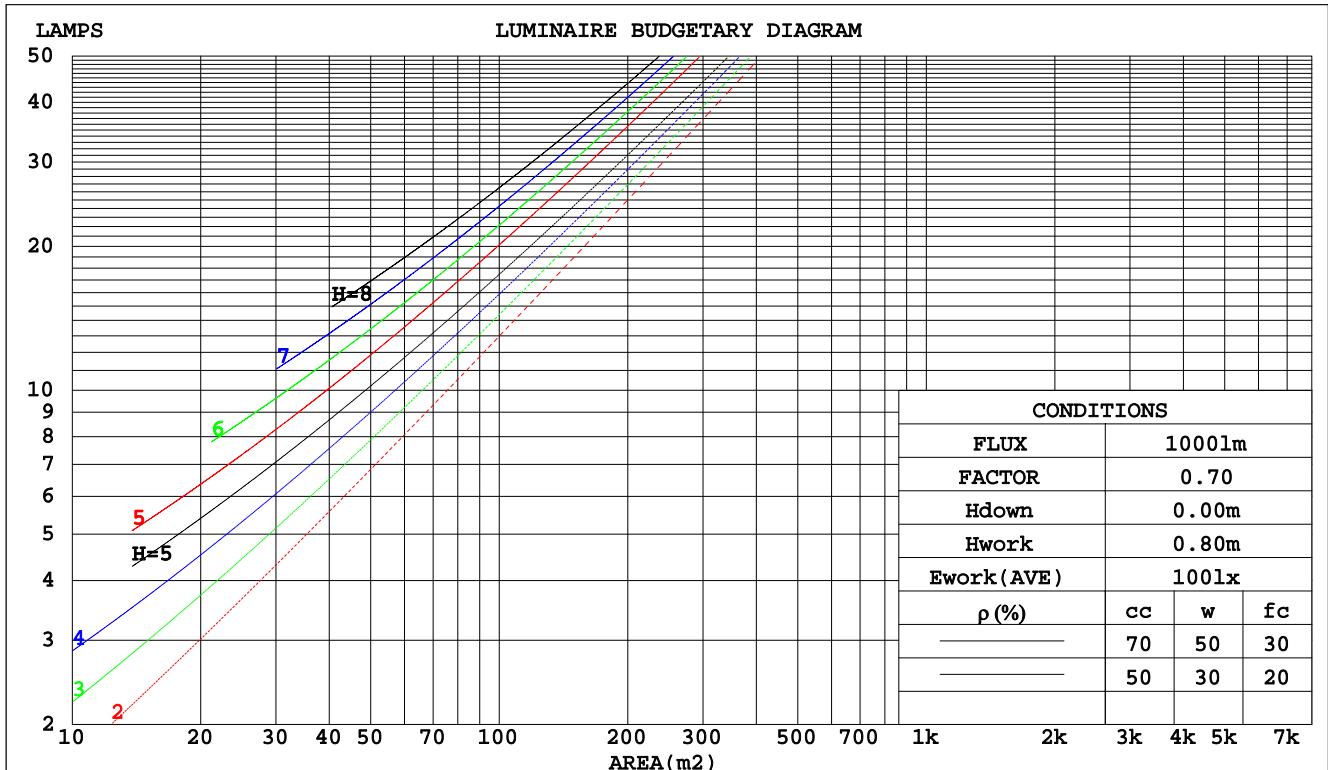
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.01	.99	.97	.96	.95	.93	.92	.91	.90	.88
2.0	.99	.94	.90	.97	.93	.89	.93	.89	.86	.89	.86	.84	.86	.84	.82	.80
3.0	.91	.85	.80	.89	.84	.79	.86	.81	.78	.83	.79	.76	.80	.77	.74	.72
4.0	.83	.77	.72	.82	.76	.71	.79	.74	.70	.76	.72	.69	.74	.70	.67	.66
5.0	.77	.70	.65	.75	.69	.64	.73	.68	.63	.71	.66	.62	.69	.65	.61	.60
6.0	.71	.64	.59	.70	.63	.58	.68	.62	.58	.66	.61	.57	.64	.60	.56	.54
7.0	.65	.58	.53	.64	.58	.53	.63	.57	.53	.61	.56	.52	.59	.55	.51	.50
8.0	.60	.54	.49	.60	.53	.49	.58	.52	.48	.57	.51	.48	.55	.51	.47	.46
9.0	.56	.49	.45	.55	.49	.45	.54	.48	.44	.53	.48	.44	.52	.47	.43	.42
10.0	.52	.46	.41	.52	.45	.41	.51	.45	.41	.49	.44	.40	.48	.44	.40	.39



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.206	.117	.037	.198	.113	.036	.183	.105	.033	.169	.097	.031	.156	.090	.029	
2.0	.199	.109	.033	.192	.106	.033	.179	.100	.031	.167	.094	.029	.156	.088	.028	
3.0	.190	.101	.030	.184	.099	.030	.173	.094	.028	.162	.089	.027	.152	.084	.026	
4.0	.181	.094	.028	.176	.092	.027	.166	.088	.026	.157	.084	.025	.148	.080	.024	
5.0	.173	.088	.026	.168	.086	.025	.159	.083	.024	.151	.079	.024	.143	.076	.023	
6.0	.165	.083	.024	.160	.081	.023	.152	.078	.023	.145	.075	.022	.138	.072	.022	
7.0	.157	.078	.022	.153	.076	.022	.146	.074	.021	.139	.071	.021	.133	.069	.020	
8.0	.150	.073	.021	.146	.072	.020	.140	.070	.020	.133	.068	.019	.128	.065	.019	
9.0	.143	.069	.019	.140	.068	.019	.134	.066	.019	.128	.064	.018	.123	.062	.018	
10.0	.137	.066	.018	.134	.065	.018	.128	.063	.018	.123	.061	.017	.118	.059	.017	

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	.223	.223	.223	.190	.190	.190	.130	.130	.130	.075	.075	.075	.024	.024	.024	
1.0	.205	.189	.175	.176	.163	.151	.120	.112	.104	.069	.065	.061	.022	.021	.020	
2.0	.192	.165	.142	.165	.142	.123	.113	.098	.086	.065	.057	.050	.021	.018	.016	
3.0	.182	.147	.118	.156	.126	.103	.107	.088	.072	.062	.051	.042	.020	.017	.014	
4.0	.173	.132	.101	.149	.114	.088	.102	.080	.062	.059	.047	.037	.019	.015	.012	
5.0	.165	.121	.089	.142	.105	.077	.098	.073	.055	.057	.043	.032	.018	.014	.011	
6.0	.159	.113	.079	.136	.097	.069	.094	.068	.049	.055	.040	.029	.018	.013	.010	
7.0	.153	.105	.072	.131	.091	.063	.091	.064	.045	.053	.038	.027	.017	.012	.009	
8.0	.147	.099	.067	.127	.086	.058	.088	.061	.041	.051	.036	.025	.017	.012	.008	
9.0	.142	.095	.062	.123	.082	.054	.085	.058	.039	.050	.034	.023	.016	.011	.008	
10.0	.138	.090	.059	.119	.078	.051	.082	.055	.036	.048	.033	.022	.016	.011	.007	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-90D					DIM.: ϕ 0.4*0.141M			SERIAL No.:		
MFR.: AOK					SUR.: ϕ 0.29M			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	12.2	13.3	12.5	13.5	13.8	12.3	13.4	12.6	13.7	13.9
3H	12.1	13.1	12.4	13.3	13.6	12.2	13.2	12.5	13.5	13.8
4H	12.0	12.9	12.4	13.2	13.6	12.1	13.1	12.5	13.4	13.7
6H	11.9	12.8	12.3	13.1	13.5	12.1	12.9	12.4	13.2	13.6
8H	11.9	12.7	12.3	13.1	13.4	12.0	12.8	12.4	13.2	13.5
12H	11.8	12.6	12.2	13.0	13.4	12.0	12.8	12.4	13.1	13.5
4H 2H	11.9	12.9	12.3	13.2	13.5	12.1	13.0	12.4	13.3	13.6
3H	11.8	12.6	12.2	13.0	13.3	11.9	12.7	12.3	13.1	13.5
4H	11.8	12.5	12.2	12.9	13.3	11.9	12.6	12.3	13.0	13.4
6H	11.7	12.4	12.2	12.8	13.2	11.9	12.5	12.3	12.9	13.3
8H	11.7	12.3	12.2	12.7	13.2	11.8	12.4	12.3	12.8	13.3
12H	11.6	12.2	12.1	12.6	13.1	11.8	12.3	12.2	12.7	13.2
8H 4H	11.7	12.3	12.1	12.7	13.1	11.8	12.4	12.2	12.8	13.2
6H	11.6	12.1	12.1	12.6	13.1	11.7	12.2	12.2	12.7	13.2
8H	11.6	12.0	12.1	12.5	13.0	11.7	12.1	12.2	12.6	13.1
12H	11.5	11.9	12.1	12.4	13.0	11.7	12.0	12.2	12.5	13.1
12H 4H	11.6	12.1	12.1	12.6	13.1	11.7	12.3	12.2	12.7	13.2
6H	11.6	12.0	12.1	12.5	13.0	11.7	12.1	12.2	12.6	13.1
8H	11.5	11.9	12.1	12.4	13.0	11.7	12.0	12.2	12.5	13.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 8.4					+ 2.4 / - 8.4				
1.5H	+ 4.4 / - 8.3					+ 4.4 / - 8.5				
2.0H	+ 6.9 / - 3.5					+ 7.4 / - 3.8				

CIE Pub.117, 30119 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 11.8$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

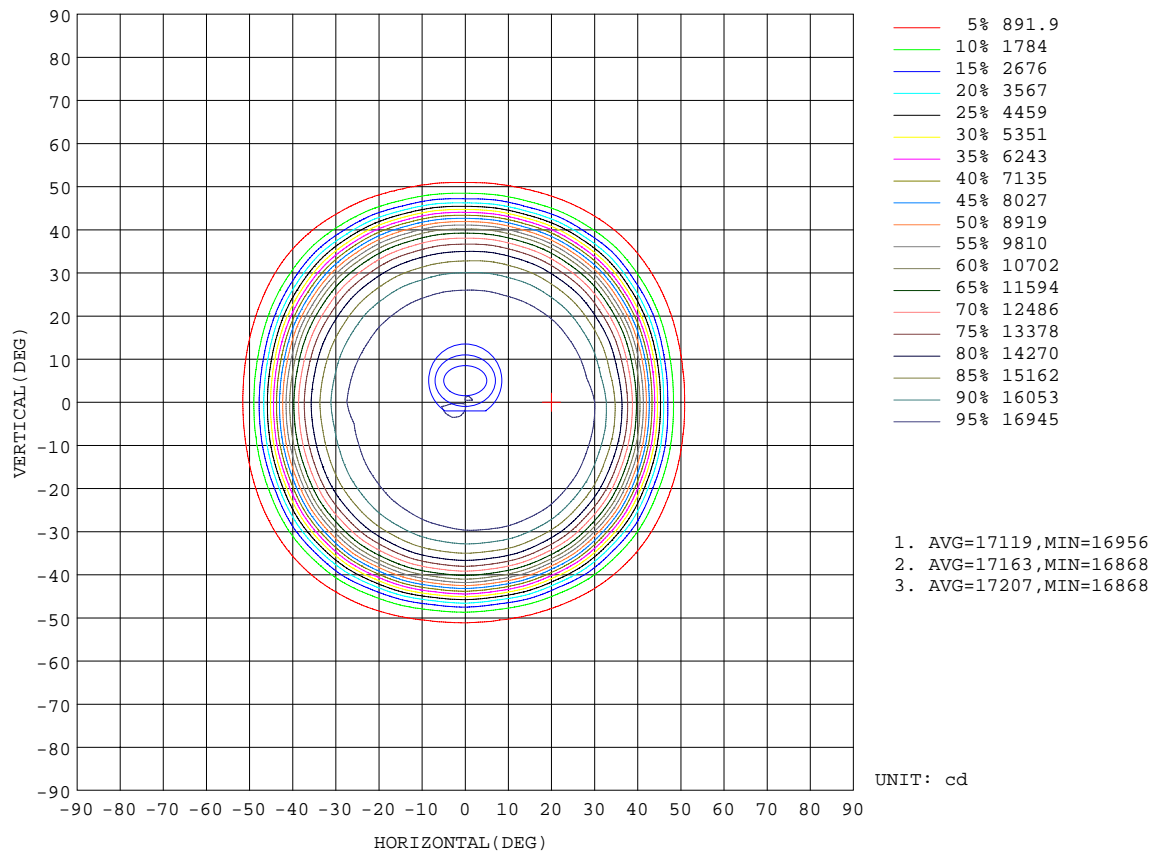
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	70	66	77	70	66	76	69	65	61
0.80	87	79	75	86	79	74	84	78	74	69
1.00	93	86	81	91	85	81	89	85	80	75
1.25	98	91	87	96	90	86	94	89	85	80
1.50	101	95	91	99	94	90	96	92	89	83
2.00	105	100	96	103	98	95	99	96	93	86
2.50	107	102	98	105	101	97	101	98	95	87
3.00	109	105	101	106	103	100	102	99	97	89
4.00	111	108	105	109	106	103	104	102	100	91
5.00	112	110	107	110	107	105	105	103	102	92
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:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



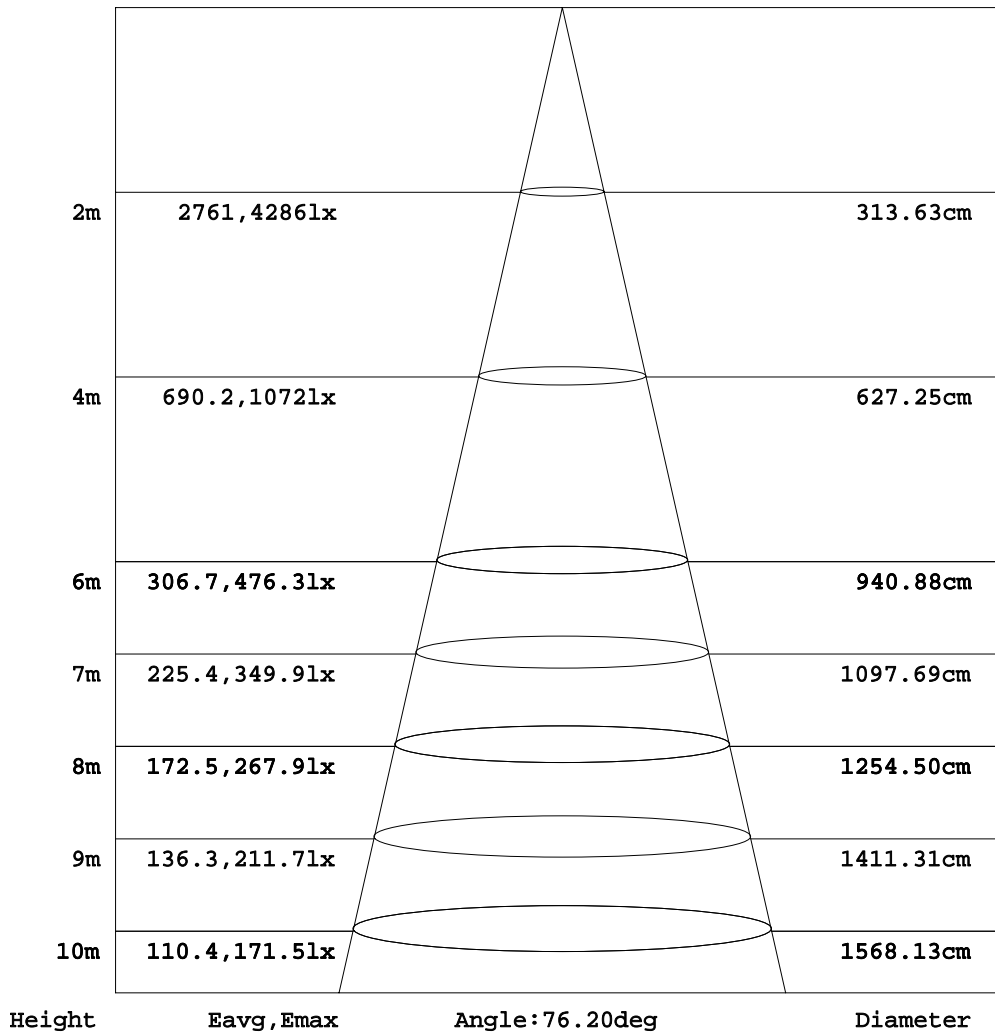
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Flux out:22749 lm



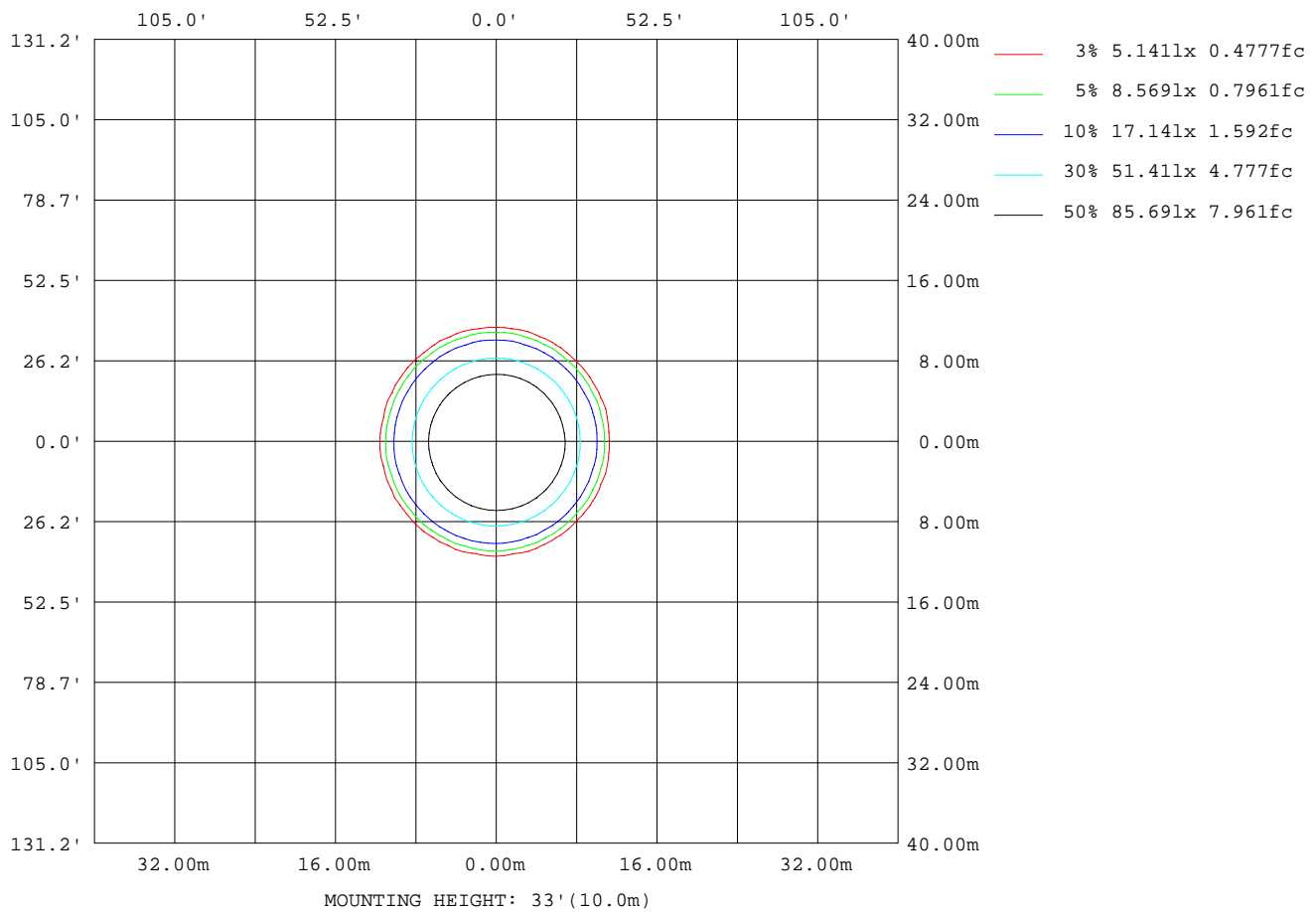
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-90D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

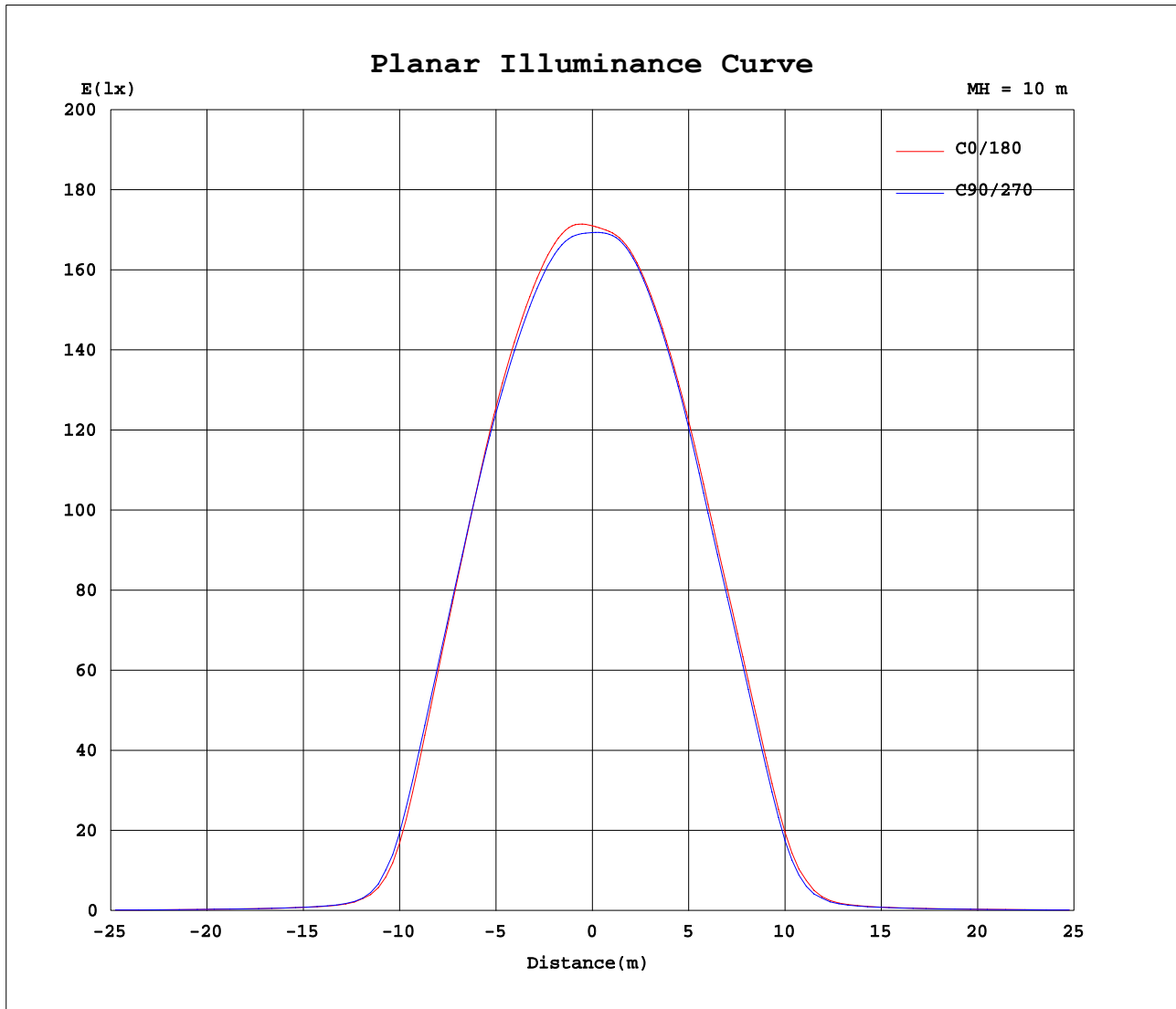
AvgL	cd/m2
L_0~180 (65) av	7932
L_0~180 (75) av	7375
L_0~180 (85) av	1430
L_90~270 (65) av	7755
L_90~270 (75) av	7111
L_90~270 (85) av	1529
L_45 (65) av	7817
L_45 (75) av	7280
L_45 (85) av	1249

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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: 2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm																		
NAME: AOK oH									TYPE:LED					WEIGHT:6.0KG				
SPEC.:AOK-200WoH-3030-90D									DIM.: $\phi 0.4 \times 0.141M$					SERIAL No.:				
MFR.: AOK									SUR.: $\phi 0.29M$					Shielding Angle:				

Table--1

UNIT: $\times 10cd$

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696
5	1718	1717	1717	1716	1716	1714	1714	1712	1711	1708	1707	1704	1704	1701	1701	1700	1700	1699	1701
10	1743	1743	1743	1742	1742	1740	1739	1737	1735	1732	1731	1728	1727	1724	1724	1722	1722	1721	1725
15	1761	1761	1760	1761	1760	1759	1757	1754	1752	1749	1747	1745	1743	1740	1739	1738	1737	1736	1739
20	1769	1770	1770	1771	1771	1770	1768	1766	1762	1757	1753	1749	1745	1742	1741	1739	1737	1736	1737
25	1755	1760	1761	1763	1764	1764	1762	1759	1754	1748	1741	1736	1730	1725	1721	1719	1715	1713	1710
30	1681	1689	1692	1700	1702	1706	1701	1701	1693	1690	1682	1679	1670	1665	1655	1648	1639	1634	1626
35	1490	1504	1503	1514	1515	1525	1522	1527	1516	1519	1515	1517	1507	1504	1491	1487	1473	1465	1449
40	1118	1132	1124	1141	1135	1154	1151	1167	1163	1178	1167	1180	1170	1176	1160	1163	1145	1148	1127
45	473	487	474	491	484	506	500	525	525	551	544	567	563	579	565	574	557	565	549
50	113	110	112	109	112	109	114	113	119	118	125	124	122	129	126	131	128	131	131
55	50.8	51.3	50.8	51.1	50.4	51.0	50.8	51.9	51.9	52.8	52.6	53.5	53.2	54.0	53.8	54.7	54.2	54.5	55.1
60	39.7	40.0	39.8	39.9	39.4	39.5	39.3	39.6	39.7	40.1	40.1	40.4	40.3	40.8	40.9	41.2	40.9	41.1	41.8
65	32.7	33.0	32.9	33.0	32.5	32.5	32.3	32.5	32.5	32.7	32.8	33.1	33.1	33.4	33.7	33.9	33.6	33.7	34.4
70	25.8	26.2	26.4	26.5	26.0	25.9	25.8	25.9	25.7	25.9	26.0	26.5	26.5	26.7	27.0	27.2	26.9	27.0	27.5
75	18.3	18.7	19.0	19.1	18.8	18.8	18.9	18.5	18.6	18.6	18.7	19.0	19.2	19.3	19.5	19.8	19.5	19.6	19.9
80	8.75	8.97	8.68	9.16	9.07	9.54	9.49	10.0	10.1	10.4	10.2	10.5	10.4	10.9	10.7	11.1	10.8	10.9	10.9
85	1.13	1.11	1.05	1.01	1.01	1.09	1.16	1.30	1.40	1.47	1.41	1.45	1.44	1.42	1.29	1.41	1.31	1.44	1.36
90	0.85	0.77	0.66	0.52	0.46	0.49	0.64	0.73	0.93	0.84	0.64	0.49	0.38	0.34	0.36	0.46	0.57	0.71	0.67
95	1.61	1.56	1.45	1.31	1.19	1.19	1.40	1.20	1.46	1.33	1.14	1.03	0.78	0.54	0.67	0.92	1.02	1.31	1.25
100	3.22	3.14	2.80	2.46	2.41	2.28	2.54	2.37	3.31	3.16	2.53	2.31	1.89	1.62	1.70	2.24	2.21	2.52	2.43
105	6.63	4.31	3.96	3.61	3.50	3.45	3.64	4.13	6.57	6.58	4.35	3.34	2.82	2.77	2.59	3.05	3.79	5.98	5.86
110	7.11	4.58	6.08	5.90	5.68	5.50	5.60	6.41	7.07	7.26	4.87	5.19	4.58	4.42	4.32	4.57	4.18	7.34	9.41
115	11.1	10.3	7.79	7.90	7.79	7.57	7.48	8.37	8.37	7.31	7.75	6.08	5.41	5.24	5.25	5.83	9.48	8.74	10.2
120	17.7	18.7	15.2	9.83	9.14	8.87	10.6	13.7	20.0	19.8	12.3	8.74	6.92	6.81	7.11	10.1	16.7	16.8	8.53
125	24.7	24.1	22.4	22.2	20.6	18.6	19.5	23.2	29.5	33.2	25.3	17.4	14.8	15.6	17.0	18.3	17.7	21.1	20.9
130	34.4	25.8	23.2	25.7	25.0	25.5	27.7	32.6	32.1	35.5	37.7	31.7	28.1	24.1	22.3	21.3	24.5	33.1	40.6
135	49.4	42.0	32.2	27.5	25.6	28.9	33.0	41.8	42.5	41.6	44.4	37.5	32.5	28.6	29.3	29.2	40.4	49.6	50.2
140	56.4	50.9	43.6	35.5	34.9	35.1	47.8	52.0	52.6	50.6	51.1	48.1	38.1	37.5	38.6	47.3	54.0	58.3	55.8
145	50.9	54.0	49.3	47.1	46.2	45.5	50.5	56.6	57.3	58.1	54.2	45.3	43.8	45.0	46.7	52.0	57.0	54.5	47.0
150	43.3	45.4	47.6	48.8	48.8	48.1	47.2	51.5	50.7	46.1	46.4	46.5	46.6	46.8	47.0	46.5	55.9	53.8	52.1
155	44.8	44.9	45.1	45.9	46.3	46.4	46.1	50.6	36.5	45.3	46.0	46.7	47.0	47.0	46.4	45.6	48.0	44.1	44.9
160	46.5	46.4	46.2	46.3	46.4	46.4	34.0	46.8	46.9	46.9	46.7	46.5	46.6	46.7	46.7	33.7	45.9	45.9	46.8
165	47.7	47.5	47.3	47.4	47.5	34.7	34.9	48.2	48.4	48.2	47.9	47.6	47.6	47.7	34.2	34.4	47.2	47.2	48.2
170	48.4	48.1	47.8	47.9	35.1	35.2	37.7	49.0	49.1	49.0	48.5	48.1	48.2	34.4	34.6	36.3	47.9	47.9	49.0
175	50.9	60.2	61.6	48.7	48.7	48.8	48.8	49.1	49.2	50.4	60.0	61.5	47.3	47.4	47.5	47.6	48.0	48.1	49.3
180	61.7	61.7	48.5	48.5	48.5	48.5	48.5	61.7	61.6	61.7	61.6	47.3	47.3	47.3	47.3	47.3	58.5	59.4	61.9

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-03-12

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:0.9368A P:200.0W PF:0.9716 Freq:49.80Hz Lamp Flux:30118.6x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-90D									DIM.: $\phi 0.4 \times 0.141M$						SERIAL No.:		
MFR.: AOK									SUR.: $\phi 0.29M$						Shielding Angle:		

Table--2

UNIT: $\times 10cd$

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696		
5	1702	1701	1703	1703	1705	1706	1708	1709	1711	1711	1714	1714	1715	1716	1717	1717	1718		
10	1725	1725	1727	1728	1730	1731	1733	1733	1735	1736	1738	1739	1741	1741	1742	1743	1743		
15	1738	1738	1741	1742	1744	1745	1746	1746	1747	1748	1750	1752	1753	1756	1757	1758	1759		
20	1736	1736	1737	1738	1739	1740	1740	1741	1742	1743	1744	1747	1750	1754	1757	1762	1764		
25	1707	1705	1704	1706	1705	1706	1707	1708	1709	1712	1715	1720	1725	1731	1736	1743	1748		
30	1619	1618	1613	1616	1610	1610	1604	1608	1608	1617	1622	1634	1640	1651	1657	1667	1671		
35	1441	1438	1430	1430	1424	1427	1424	1426	1426	1438	1440	1449	1452	1463	1468	1482	1484		
40	1111	1110	1096	1099	1088	1095	1086	1097	1088	1094	1084	1096	1091	1105	1102	1119	1118		
45	532	539	521	529	512	521	504	514	494	501	478	489	474	488	475	493	484		
50	127	129	124	124	118	119	120	116	117	112	113	109	112	109	112	110	114		
55	54.5	54.8	53.8	53.5	52.4	52.5	52.0	52.2	51.7	52.0	51.1	50.9	50.5	50.9	50.3	50.5	50.3		
60	41.6	41.7	41.2	40.8	40.3	40.3	40.1	40.3	40.1	40.1	39.8	39.7	39.6	39.9	39.4	39.4	39.3		
65	34.2	34.4	34.1	33.7	33.2	33.3	33.1	33.1	32.8	32.9	32.6	32.5	32.5	32.8	32.4	32.4	32.3		
70	27.4	27.8	27.5	27.1	26.6	26.6	26.3	26.2	25.8	26.0	25.7	25.7	25.6	25.9	25.6	25.5	25.5		
75	19.9	19.9	19.9	19.5	19.2	19.1	18.6	18.5	18.2	18.1	18.1	18.0	17.8	17.9	17.9	18.0	18.1		
80	10.5	10.4	10.2	10.1	9.72	9.80	9.67	9.84	9.47	9.22	8.85	8.80	8.62	8.67	8.44	8.68	8.65		
85	1.24	1.13	1.07	1.06	1.04	1.12	1.16	1.26	1.20	1.13	1.00	0.96	0.92	0.92	0.94	1.01	1.06		
90	0.56	0.43	0.33	0.29	0.38	0.41	0.50	0.57	0.59	0.50	0.41	0.36	0.28	0.30	0.39	0.48	0.71		
95	0.98	0.77	0.61	0.43	0.61	0.84	0.97	1.24	1.23	0.97	0.81	0.59	0.44	0.55	0.69	0.82	1.17		
100	2.05	1.77	1.66	1.50	1.76	2.06	2.20	2.54	2.28	1.91	1.95	1.62	1.42	1.54	1.69	1.84	2.56		
105	4.22	3.45	2.83	2.65	2.75	3.17	3.91	5.06	4.89	3.30	3.31	2.48	2.38	2.43	2.65	3.77	5.49		
110	5.61	4.35	4.36	4.26	4.31	4.45	5.38	6.36	6.69	4.73	4.64	3.83	3.61	3.89	4.03	4.53	9.06		
115	5.63	6.27	5.42	5.63	5.36	5.56	7.42	8.29	7.54	6.59	5.47	5.68	5.93	5.42	5.87	5.31	8.72		
120	10.5	8.39	6.77	7.04	6.76	6.79	8.91	15.1	17.4	9.63	7.21	7.20	7.29	6.86	7.95	8.73	9.78		
125	17.4	12.4	13.0	12.9	13.5	15.7	20.6	24.5	22.7	21.9	17.1	13.8	12.9	12.4	13.4	17.6	20.8		
130	36.8	21.3	19.6	17.6	19.4	21.6	27.3	31.6	35.9	34.3	25.2	22.6	19.2	18.3	24.6	37.6	41.6		
135	42.4	39.8	36.6	30.0	34.2	35.9	44.2	48.4	45.6	40.2	40.9	37.6	32.1	36.1	41.2	49.9	54.4		
140	53.0	45.6	41.7	41.2	41.7	51.9	51.6	53.9	55.9	52.7	45.2	41.4	40.7	43.2	55.5	56.7	55.9		
145	53.5	52.6	46.6	46.4	45.4	44.3	52.8	53.5	53.2	55.0	48.6	36.6	40.6	44.6	42.8	50.7	52.9		
150	47.7	42.2	42.5	43.0	43.2	43.1	42.4	41.8	51.5	54.0	41.6	41.8	30.3	35.0	39.5	41.3	41.4		
155	45.3	36.2	43.9	43.8	43.8	43.7	43.6	43.6	43.8	45.0	43.5	43.4	43.4	36.7	39.3	41.1	43.3		
160	46.7	33.6	36.2	45.5	45.3	45.2	45.2	45.4	41.1	44.7	31.7	45.1	45.1	41.7	34.1	40.5	40.2		
165	48.1	34.5	34.3	45.7	46.6	46.5	46.5	46.8	44.9	36.8	32.5	32.4	46.2	46.0	38.4	43.9	40.7		
170	48.9	36.6	34.7	34.5	47.2	47.2	47.3	47.7	47.8	47.7	35.4	32.8	32.6	46.7	44.0	45.8	46.9		
175	49.2	48.9	48.7	48.7	48.5	61.6	58.3	48.3	48.1	48.0	47.7	47.6	47.5	47.4	61.6	48.0	48.2		
180	61.6	48.6	48.5	48.5	48.5	48.6	61.6	61.6	61.6	61.6	47.3	47.3	47.3	47.3	47.3	61.0	61.6		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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: