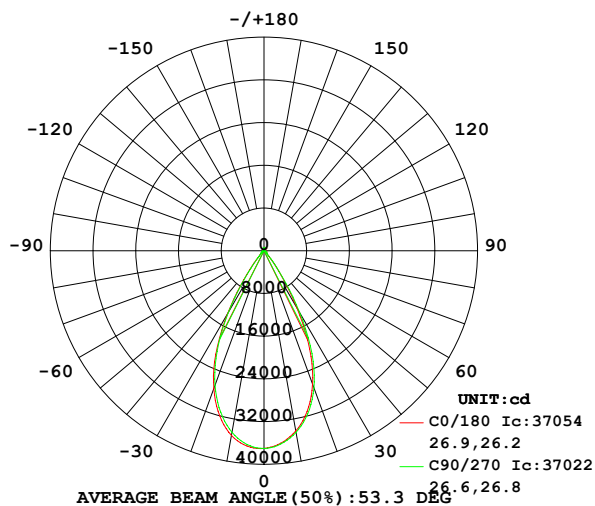


LUMINAIRE PHOTOMETRIC TEST REPORT

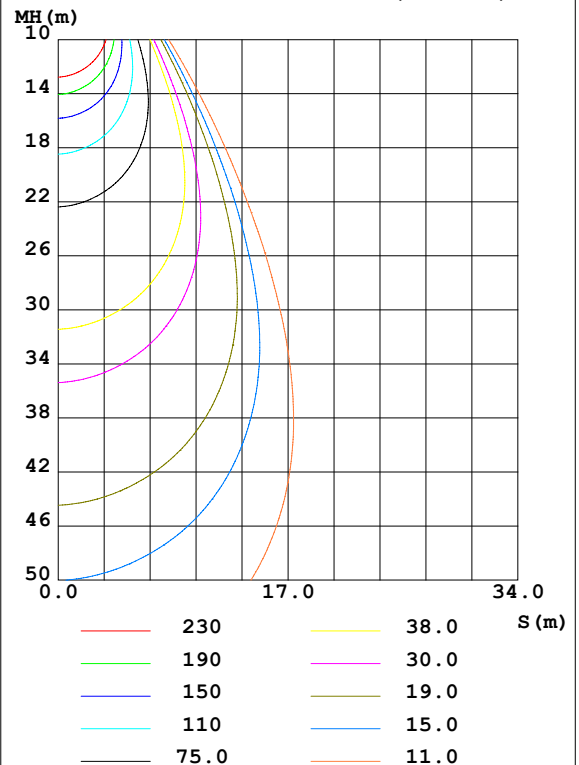
Test:U:220.2V I:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.35 lm/W			
MODEL	3030	I _{max} (cd)	37062	S/MH (C0/180)	0.81
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	0.80
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	28924	η UP, DN (C0-180)	2.2, 47.6
NOMINAL FLUX (lm)	28923.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.1, 48.0
LAMPS INSIDE	1	η up (%)	4.4	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	95.6	CIBSE SHR MAX	0.85

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	3429	3433	3454	3489	3511	3497	3452	3435	0- 10	3420	3420	11.8,11.8
20	2661	2674	2734	2781	2750	2705	2684	2690	10- 20	8769	12189	42.1,42.1
30	1235	1261	1339	1409	1376	1381	1339	1324	20- 30	9400	21589	74.6,74.6
40	194.7	200.2	206.9	211.3	226.5	231.4	211.1	199.4	30- 40	4096	25685	88.8,88.8
50	64.75	63.97	67.50	68.62	68.41	70.38	72.18	68.77	40- 50	803.6	26489	91.6,91.6
60	49.13	47.54	48.84	50.39	51.92	51.29	51.12	50.20	50- 60	531.8	27020	93.4,93.4
70	29.44	29.24	29.51	30.52	31.76	31.66	30.56	30.10	60- 70	392.4	27413	94.8,94.8
80	8.983	9.469	10.81	11.19	11.71	10.86	10.08	9.280	70- 80	216.3	27629	95.5,95.5
90	0.8375	0.4605	0.8226	0.3493	0.6622	0.3312	0.5937	0.2890	80- 90	31.72	27661	95.6,95.6
100	3.143	2.301	3.118	1.655	2.406	1.629	2.332	1.481	90-100	12.38	27673	95.7,95.7
110	7.215	5.421	7.365	4.263	9.401	4.286	6.685	3.779	100-110	40.00	27713	95.8,95.8
120	16.96	8.691	19.31	6.764	8.480	6.696	17.21	6.804	110-120	72.88	27786	96.1,96.1
130	33.57	24.26	34.62	22.24	39.13	17.23	34.85	18.34	120-130	164.2	27950	96.6,96.6
140	55.21	34.08	49.75	36.98	54.74	40.32	54.80	41.58	130-140	285.4	28235	97.6,97.6
150	43.22	48.52	46.10	47.03	51.72	42.94	51.46	35.69	140-150	300.8	28536	98.7,98.7
160	47.82	47.81	48.24	48.05	47.88	46.54	42.79	44.64	150-160	209.2	28745	99.4,99.4
170	51.43	38.30	52.11	37.62	51.82	43.87	50.98	42.91	160-170	129.5	28875	99.8,99.8
180	65.35	52.41	65.62	51.29	65.60	52.42	65.58	51.29	170-180	48.99	28924	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 26179 lm

%lum = 90.5%

%lamp = 90.5%

Conical surface Flux(120deg): 27020 lm

%lum = 93.4%

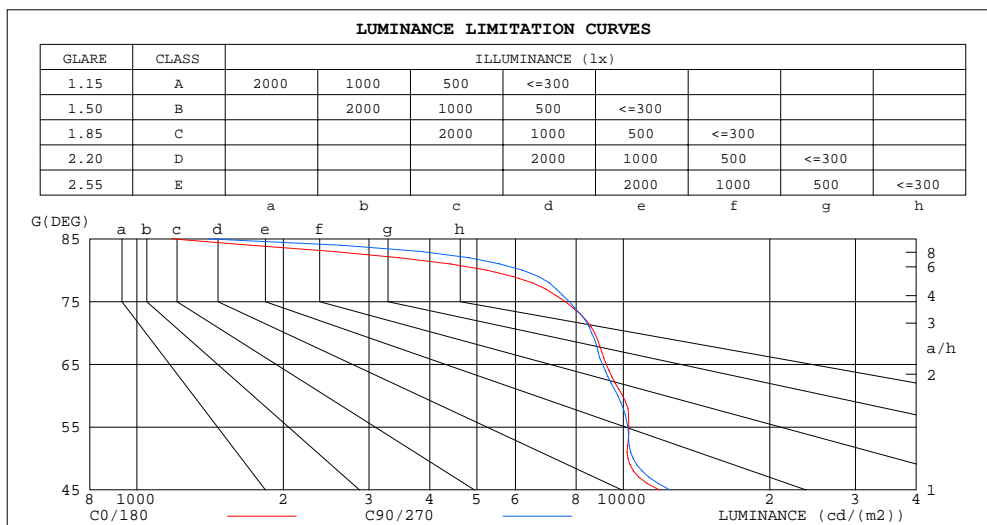
%lamp = 93.4%

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
 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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1178	1400
80	5248	6209
75	7594	7738
70	8732	8608
65	9223	9062
60	9969	9745
55	10260	10213
50	10220	10477
45	11861	12466

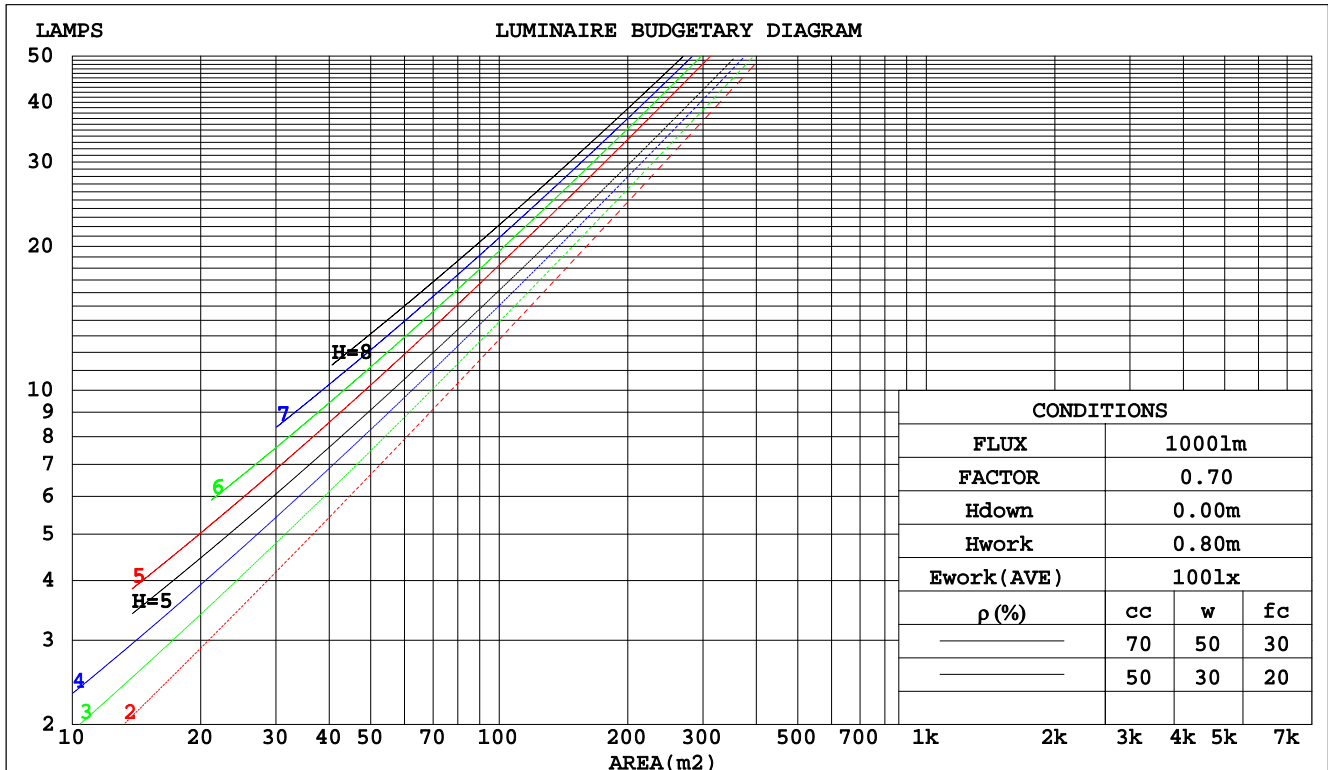
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200Woh-3030-60D	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	1.09	1.07	1.05	1.07	1.05	1.03	1.02	1.00	.99	.98	.96	.95	.93	.92	.91	.89
2.0	1.02	.98	.94	.90	.96	.93	.96	.93	.90	.92	.90	.88	.89	.87	.85	.83
3.0	.95	.90	.86	.93	.89	.85	.90	.86	.83	.87	.84	.81	.84	.82	.80	.78
4.0	.89	.83	.79	.88	.82	.79	.85	.81	.77	.82	.79	.76	.80	.77	.75	.73
5.0	.84	.78	.74	.82	.77	.73	.80	.75	.72	.78	.74	.71	.76	.73	.70	.68
6.0	.79	.73	.69	.78	.72	.68	.76	.71	.67	.74	.70	.67	.72	.69	.66	.64
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.70	.66	.63	.69	.65	.62	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.62	.59	.65	.62	.59	.57
9.0	.67	.61	.57	.66	.60	.57	.65	.60	.56	.63	.59	.56	.62	.58	.56	.54
10.0	.63	.58	.54	.63	.57	.54	.62	.57	.53	.60	.56	.53	.60	.56	.53	.51



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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	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	.182	.104	.033	.174	.099	.032	.159	.091	.029	.145	.084	.027	.132	.077	.025		
2.0	.173	.095	.029	.166	.091	.028	.153	.085	.026	.141	.079	.025	.130	.073	.023		
3.0	.163	.087	.026	.157	.084	.025	.146	.079	.024	.136	.074	.023	.126	.070	.022		
4.0	.154	.080	.024	.149	.078	.023	.139	.074	.022	.130	.070	.021	.122	.066	.020		
5.0	.146	.074	.022	.142	.073	.021	.133	.069	.020	.125	.066	.020	.117	.063	.019		
6.0	.139	.070	.020	.135	.068	.020	.127	.065	.019	.120	.062	.018	.113	.060	.018		
7.0	.132	.065	.019	.129	.064	.018	.122	.061	.018	.115	.059	.017	.109	.057	.017		
8.0	.126	.062	.017	.123	.060	.017	.117	.058	.017	.111	.056	.016	.105	.054	.016		
9.0	.121	.058	.016	.118	.057	.016	.112	.055	.016	.107	.053	.015	.102	.052	.015		
10.0	.116	.055	.015	.113	.054	.015	.108	.053	.015	.103	.051	.015	.098	.049	.014		

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	.224	.224	.224	.191	.191	.191	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.205	.191	.178	.175	.164	.153	.120	.113	.106	.069	.065	.062	.022	.021	.020	
2.0	.190	.166	.146	.163	.143	.126	.112	.099	.088	.064	.058	.052	.021	.019	.017	
3.0	.178	.148	.123	.152	.127	.107	.105	.088	.075	.060	.052	.044	.019	.017	.014	
4.0	.168	.133	.107	.144	.115	.093	.099	.080	.065	.057	.047	.039	.018	.015	.013	
5.0	.159	.121	.094	.136	.105	.082	.094	.073	.058	.054	.043	.034	.018	.014	.011	
6.0	.151	.112	.084	.130	.097	.073	.090	.068	.052	.052	.040	.031	.017	.013	.010	
7.0	.145	.105	.077	.124	.091	.067	.086	.064	.047	.050	.037	.028	.016	.012	.009	
8.0	.139	.099	.071	.120	.085	.062	.083	.060	.044	.048	.035	.026	.016	.012	.009	
9.0	.134	.093	.066	.115	.081	.058	.080	.057	.041	.046	.034	.024	.015	.011	.008	
10.0	.129	.089	.062	.111	.077	.054	.077	.054	.039	.045	.032	.023	.015	.011	.008	

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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm										
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-60D					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:		
MFR.: AOK					SUR.: $\phi 0.29M$			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	5.8	6.7	6.1	6.9	7.2	5.9	6.8	6.2	7.0	7.3
3H	6.2	7.0	6.5	7.3	7.6	6.2	7.1	6.6	7.3	7.6
4H	6.4	7.2	6.7	7.4	7.8	6.4	7.2	6.8	7.5	7.8
6H	6.5	7.2	6.8	7.5	7.8	6.5	7.3	6.9	7.6	7.9
8H	6.4	7.1	6.8	7.5	7.8	6.5	7.2	6.9	7.6	7.9
12H	6.4	7.1	6.8	7.4	7.8	6.5	7.2	6.9	7.5	7.9
4H 2H	5.8	6.6	6.1	6.9	7.2	5.9	6.7	6.2	6.9	7.2
3H	6.4	7.0	6.8	7.4	7.7	6.4	7.1	6.8	7.4	7.8
4H	6.7	7.3	7.1	7.6	8.0	6.7	7.3	7.1	7.7	8.1
6H	6.8	7.3	7.2	7.7	8.2	6.9	7.4	7.3	7.8	8.3
8H	6.8	7.3	7.2	7.7	8.2	6.9	7.4	7.3	7.8	8.3
12H	6.7	7.2	7.2	7.6	8.1	6.8	7.3	7.3	7.7	8.2
8H 4H	6.7	7.2	7.2	7.6	8.1	6.7	7.2	7.2	7.6	8.1
6H	6.9	7.3	7.4	7.8	8.3	7.0	7.4	7.5	7.8	8.3
8H	6.9	7.2	7.4	7.7	8.3	7.0	7.4	7.5	7.8	8.4
12H	6.8	7.1	7.4	7.7	8.2	6.9	7.3	7.5	7.8	8.3
12H 4H	6.7	7.1	7.1	7.6	8.0	6.7	7.1	7.2	7.6	8.1
6H	6.9	7.2	7.4	7.7	8.2	6.9	7.3	7.4	7.8	8.3
8H	6.9	7.2	7.4	7.7	8.2	7.0	7.3	7.5	7.8	8.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 1.3					+ 1.8 / - 1.3				
1.5H	+ 3.4 / - 1.2					+ 3.5 / - 1.2				
2.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				

CIE Pub.117, 28924 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 11.7$)

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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

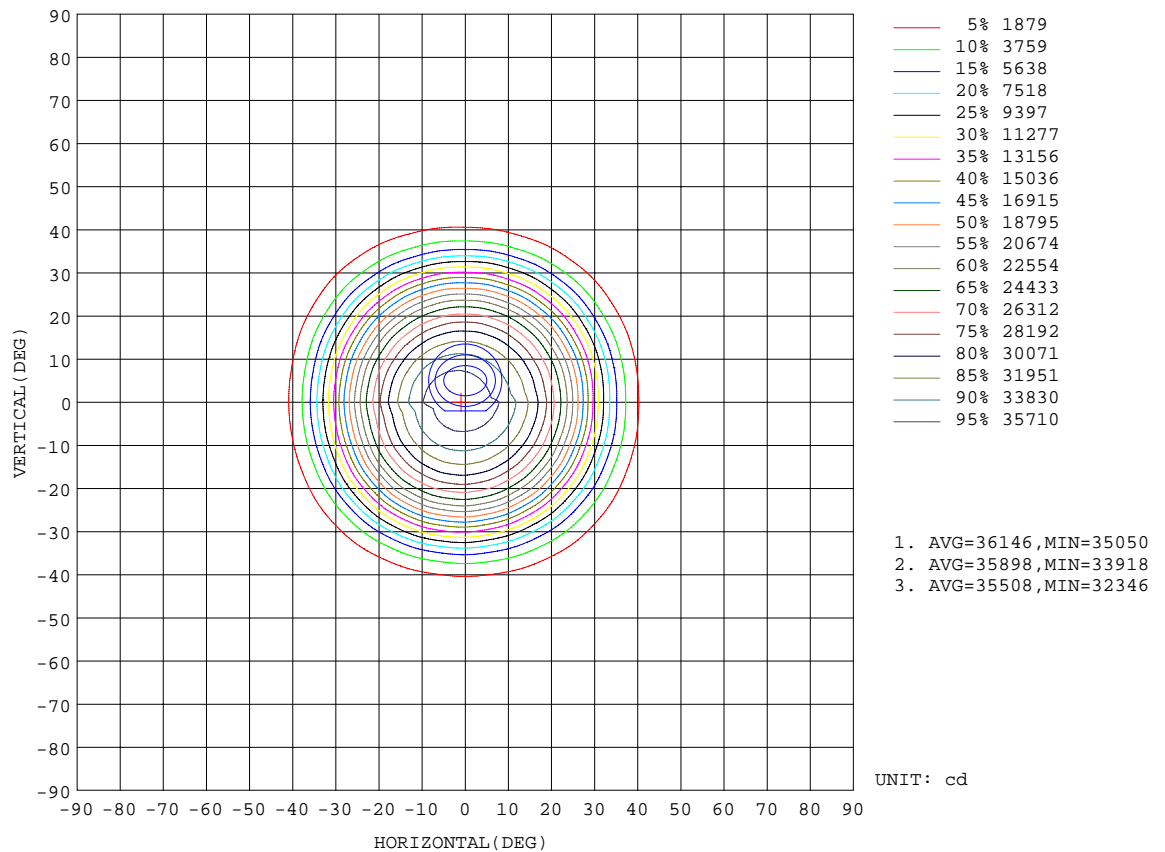
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	91	85	82	90	85	81	77
1.00	97	91	87	95	90	86	93	89	86	81
1.25	101	95	91	99	94	91	97	93	90	85
1.50	103	98	95	102	97	94	99	95	93	87
2.00	106	102	98	105	100	97	101	98	95	89
2.50	108	104	101	106	103	100	102	100	97	90
3.00	110	106	103	108	104	102	104	101	99	91
4.00	112	109	107	110	107	105	105	103	102	93
5.00	114	111	109	111	109	107	106	105	103	94
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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



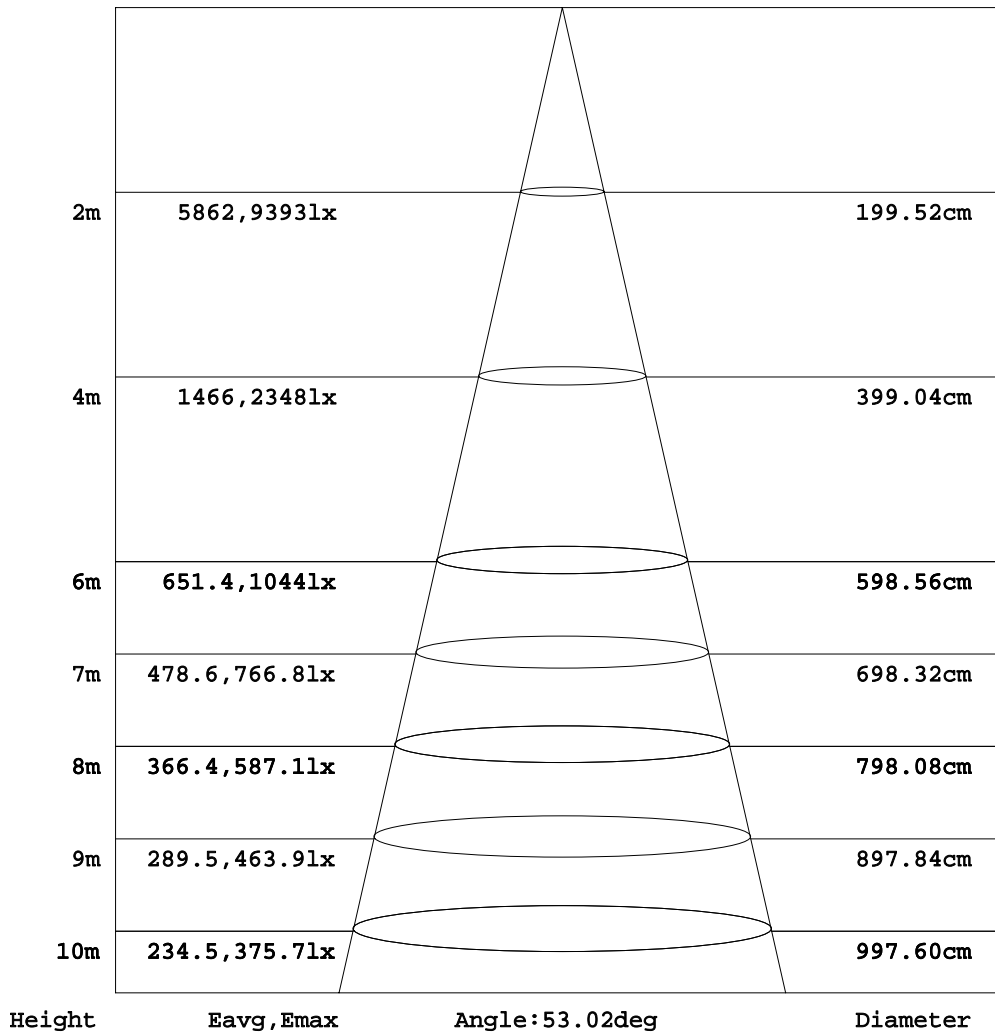
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Flux out:19125 lm



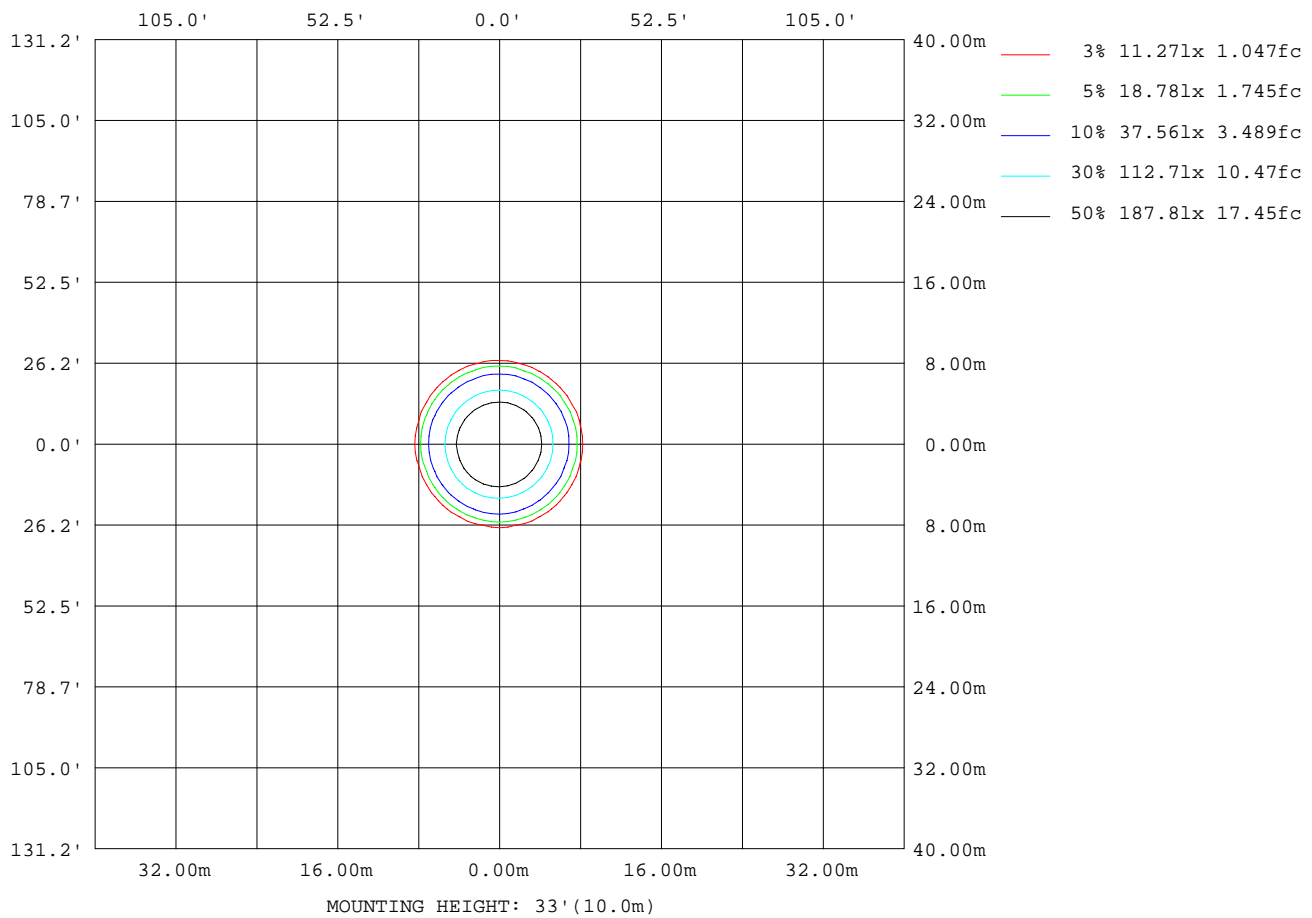
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

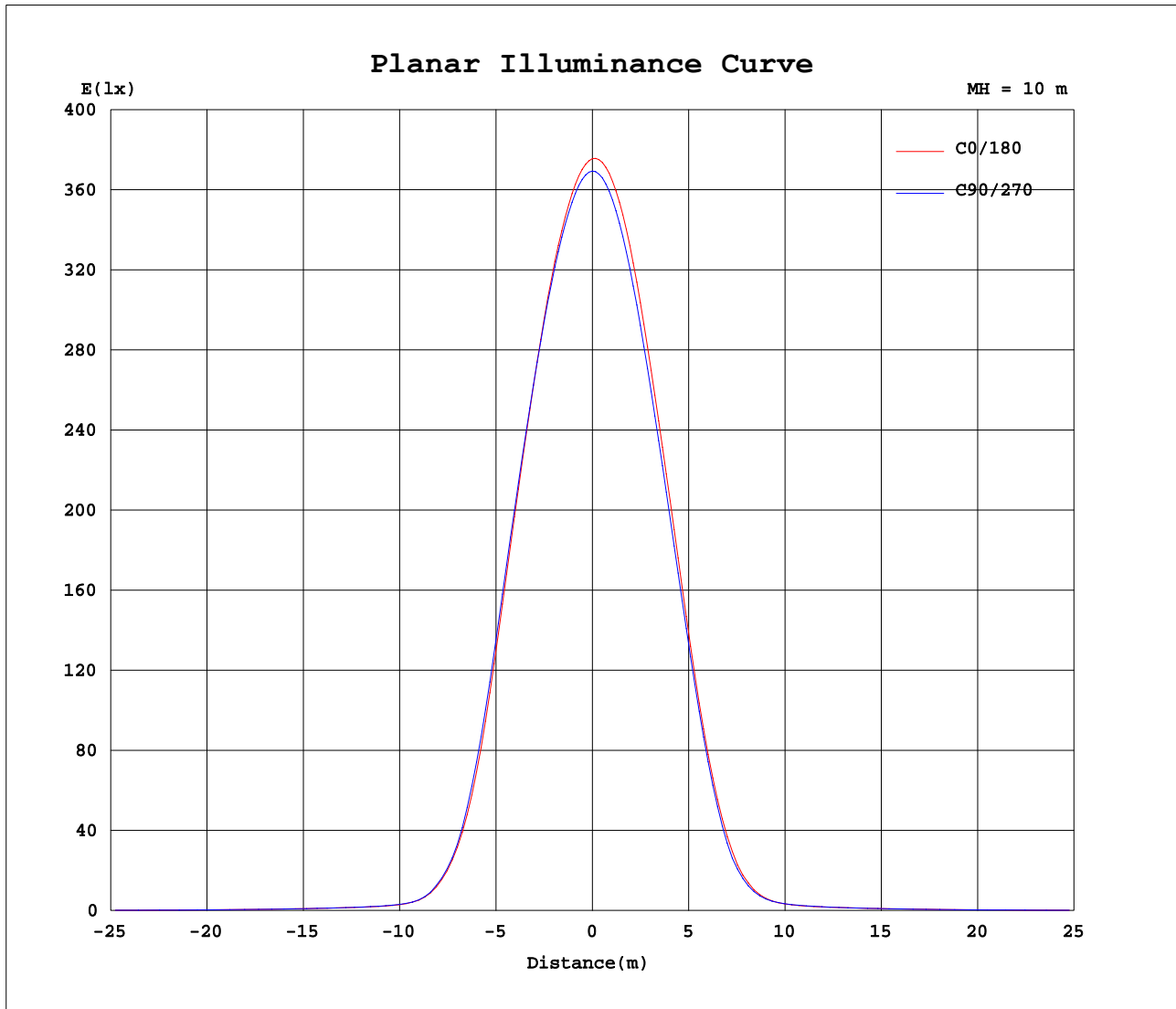
AvgL	cd/m2
L_0~180 (65) av	9393
L_0~180 (75) av	7940
L_0~180 (85) av	1473
L_90~270 (65) av	9285
L_90~270 (75) av	7824
L_90~270 (85) av	1430
L_45 (65) av	9244
L_45 (75) av	7984
L_45 (85) av	1222

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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-200WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT: $\times 10cd$

γ (DEG) \ C (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702
5	3618	3619	3616	3618	3618	3621	3621	3626	3627	3633	3636	3644	3647	3654	3656	3662	3662	3664	3672
10	3429	3431	3429	3432	3431	3435	3434	3442	3445	3454	3459	3471	3476	3488	3490	3499	3499	3502	3511
15	3120	3122	3118	3122	3121	3128	3128	3141	3148	3162	3170	3186	3192	3205	3205	3210	3201	3198	3203
20	2661	2666	2658	2667	2666	2683	2686	2706	2712	2734	2741	2763	2768	2784	2778	2781	2764	2757	2750
25	2027	2037	2024	2042	2036	2061	2061	2091	2096	2128	2132	2167	2169	2191	2175	2181	2154	2152	2136
30	1235	1249	1239	1255	1250	1272	1274	1302	1306	1339	1353	1386	1392	1414	1404	1411	1389	1390	1376
35	569	580	569	579	570	583	575	588	585	606	603	628	626	651	643	664	653	671	663
40	195	200	195	200	197	204	200	205	201	207	202	208	205	213	210	218	216	225	227
45	82.7	83.7	83.0	83.6	83.3	84.8	85.1	86.8	87.0	88.4	88.4	89.5	89.3	89.9	88.1	87.8	87.4	89.7	92.0
50	64.8	64.9	64.2	64.1	63.7	64.3	64.5	65.4	66.2	67.5	68.0	68.7	68.6	69.0	68.3	67.8	67.2	67.6	68.4
55	58.0	58.0	57.6	57.1	56.4	56.7	56.8	57.3	58.0	58.7	59.3	59.6	59.5	60.1	60.2	60.5	60.3	60.4	60.9
60	49.1	49.1	48.3	48.0	47.2	47.9	47.9	48.3	48.2	48.8	49.6	49.8	49.4	50.4	50.4	51.3	51.0	51.2	51.9
65	38.4	38.6	38.0	38.0	37.4	37.6	37.6	37.9	38.0	38.4	38.6	38.8	38.7	39.2	39.4	39.9	39.8	40.2	41.0
70	29.4	29.8	29.5	29.6	29.1	29.4	29.2	29.4	29.3	29.5	29.7	30.0	29.8	30.4	30.6	31.1	30.9	31.2	31.8
75	19.4	19.7	19.8	20.0	19.7	20.0	19.9	19.9	20.0	20.1	20.1	20.2	20.4	21.0	21.0	21.3	21.0	21.2	21.7
80	8.98	9.23	8.98	9.51	9.28	9.65	9.61	10.3	10.6	10.8	10.6	10.7	10.8	11.3	11.1	11.4	11.3	11.5	11.7
85	1.01	0.96	0.87	0.80	0.78	0.82	0.87	1.00	1.11	1.22	1.19	1.31	1.28	1.49	1.31	1.48	1.41	1.61	1.55
90	0.84	0.74	0.64	0.50	0.45	0.47	0.62	0.71	0.90	0.82	0.63	0.49	0.38	0.35	0.35	0.46	0.57	0.70	0.66
95	1.55	1.49	1.41	1.25	1.13	1.12	1.35	1.17	1.44	1.32	1.13	1.02	0.78	0.54	0.66	0.92	1.02	1.31	1.25
100	3.14	3.05	2.73	2.41	2.35	2.25	2.44	2.34	3.26	3.12	2.50	2.31	1.88	1.62	1.69	2.24	2.20	2.53	2.41
105	6.51	4.33	3.84	3.58	3.45	3.38	3.78	4.10	6.59	6.55	4.36	3.34	2.84	2.78	2.61	3.06	3.80	5.98	5.83
110	7.22	4.55	6.03	5.71	5.49	5.35	5.59	6.18	7.11	7.36	4.91	5.20	4.59	4.42	4.32	4.58	4.19	7.36	9.40
115	11.0	10.3	7.78	7.75	7.60	7.42	7.44	8.37	8.09	7.34	7.64	6.04	5.38	5.21	5.22	5.80	9.44	8.73	10.1
120	17.0	18.5	14.9	9.50	8.79	8.59	10.3	13.6	19.6	19.3	12.1	8.55	6.72	6.61	6.91	9.96	16.5	16.6	8.48
125	23.9	23.4	21.7	21.6	20.0	18.1	18.9	22.6	28.9	32.3	24.5	16.8	14.5	15.2	16.6	18.0	17.4	20.7	20.0
130	33.6	24.8	22.0	24.6	24.0	24.5	26.7	31.6	31.1	34.6	36.5	30.6	27.0	23.2	21.3	20.3	23.6	32.2	39.1
135	48.1	40.8	31.1	23.7	24.5	27.8	31.8	40.7	41.5	40.7	43.4	36.3	31.1	27.3	27.7	30.4	39.2	48.5	48.8
140	55.2	49.9	42.8	34.6	34.0	34.2	46.9	51.1	51.7	49.7	50.3	47.4	37.2	36.5	37.5	46.2	52.9	57.4	54.7
145	50.1	53.1	47.8	46.6	45.7	45.0	50.1	56.1	57.0	57.6	53.7	44.9	43.4	44.7	46.3	51.6	56.6	54.2	46.0
150	43.2	45.4	47.6	48.8	48.9	48.2	47.2	51.6	50.5	46.1	46.5	46.5	46.7	46.9	47.1	46.7	56.0	53.9	51.7
155	45.3	45.4	45.7	46.4	46.9	47.0	46.7	51.1	37.3	45.9	46.6	47.2	47.6	47.6	47.0	46.2	48.5	44.7	45.2
160	47.8	47.7	47.6	47.7	47.8	47.8	35.4	48.1	48.3	48.2	48.1	47.9	48.0	48.0	48.1	35.0	47.2	47.2	47.9
165	49.9	49.8	49.6	49.7	49.8	37.1	37.2	50.6	50.7	50.5	50.2	49.9	49.9	50.0	36.5	36.7	49.4	49.5	50.1
170	51.4	51.3	51.0	51.1	38.2	38.4	40.9	52.2	52.3	52.1	51.6	51.3	51.3	37.5	37.7	39.6	51.0	51.1	51.8
175	54.4	63.8	65.2	52.3	52.4	52.5	52.6	52.9	52.9	54.2	63.7	65.2	51.1	51.1	51.3	51.4	51.8	51.9	52.9
180	65.4	65.5	52.4	52.4	52.4	52.4	52.4	65.6	65.6	65.6	65.5	51.3	51.3	51.3	51.3	51.4	58.6	64.7	65.6

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
 γ 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:0.9361A P:200.4W PF:0.9719 Freq:49.80Hz Lamp Flux:28923.9x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-200WoH-3030-60D									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	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702	3702		
5	3672	3674	3670	3670	3664	3661	3655	3651	3643	3639	3633	3631	3626	3627	3625	3626	3624		
10	3511	3514	3505	3504	3490	3485	3471	3466	3452	3450	3439	3438	3433	3437	3435	3440	3440		
15	3197	3198	3184	3180	3163	3158	3145	3142	3133	3135	3129	3132	3130	3137	3136	3144	3144		
20	2738	2736	2716	2714	2696	2697	2687	2692	2684	2691	2683	2689	2685	2695	2695	2704	2702		
25	2124	2130	2113	2118	2099	2103	2090	2097	2082	2087	2074	2082	2073	2083	2076	2087	2079		
30	1373	1391	1378	1390	1372	1380	1359	1361	1339	1348	1331	1338	1320	1328	1309	1316	1295		
35	663	674	661	664	645	642	623	625	612	620	608	614	602	609	599	606	599		
40	226	233	229	234	229	230	221	221	211	210	202	203	197	202	198	205	203		
45	93.8	96.7	97.0	99.2	98.7	99.9	98.5	98.9	96.9	96.0	92.9	91.3	88.3	86.8	84.2	84.1	83.3		
50	69.0	69.7	69.7	70.2	70.5	71.3	71.4	72.1	72.2	72.3	71.1	70.3	69.1	68.4	67.0	66.1	65.2		
55	61.2	61.5	61.0	60.8	60.9	61.2	61.2	61.8	61.9	62.1	61.5	61.1	60.5	60.4	59.8	59.3	58.6		
60	52.0	52.1	52.0	51.4	51.1	51.2	51.2	51.9	51.1	51.4	50.6	50.7	50.2	50.2	50.1	49.8	49.3		
65	41.0	41.2	40.9	40.6	40.3	40.4	40.2	40.6	40.1	40.2	39.4	39.3	39.0	39.1	38.8	38.7	38.5		
70	31.9	32.2	32.1	31.8	31.5	31.5	31.1	31.0	30.6	30.9	30.2	29.9	30.0	30.2	29.8	29.7	29.3		
75	21.9	22.0	22.1	21.8	21.7	21.5	21.1	20.9	20.4	20.6	20.1	19.8	20.0	20.1	19.7	19.6	19.4		
80	11.4	11.3	11.2	11.0	10.7	10.6	10.4	10.5	10.1	9.98	9.40	9.47	9.22	9.34	9.15	9.26	9.07		
85	1.40	1.33	1.22	1.25	1.19	1.28	1.30	1.41	1.27	1.18	1.00	0.94	0.86	0.85	0.86	0.93	0.97		
90	0.56	0.43	0.33	0.29	0.38	0.41	0.49	0.57	0.59	0.50	0.41	0.35	0.28	0.30	0.39	0.48	0.70		
95	0.98	0.77	0.61	0.44	0.61	0.84	0.97	1.24	1.24	0.97	0.81	0.59	0.44	0.55	0.69	0.82	1.16		
100	2.05	1.76	1.66	1.50	1.76	2.06	2.20	2.57	2.33	1.91	1.95	1.62	1.42	1.54	1.70	1.85	2.56		
105	4.19	3.45	2.82	2.65	2.74	3.15	3.91	5.07	5.00	3.31	3.31	2.48	2.38	2.43	2.66	3.78	5.50		
110	5.58	4.35	4.34	4.26	4.31	4.43	5.38	6.31	6.69	4.81	4.65	3.86	3.65	3.91	4.05	4.54	9.06		
115	5.56	6.22	5.37	5.58	5.36	5.47	7.37	8.25	7.52	6.55	5.41	5.62	5.87	5.32	5.82	5.28	8.74		
120	10.3	8.15	6.53	6.81	6.58	6.56	8.68	15.0	17.2	9.39	6.95	6.94	7.03	6.58	7.69	8.65	9.52		
125	16.8	11.8	12.4	12.4	13.0	15.0	20.0	24.0	22.2	21.5	16.6	13.4	12.5	12.3	12.9	17.0	19.9		
130	35.8	22.4	18.2	16.3	18.2	20.6	26.6	31.2	34.8	33.3	24.2	21.8	18.2	18.4	23.6	36.4	40.5		
135	40.3	36.5	34.9	28.7	33.0	34.7	43.1	46.6	43.6	38.4	39.6	36.4	30.8	35.7	39.9	48.7	53.4		
140	51.9	44.5	40.5	40.1	40.5	50.8	50.6	53.0	54.8	51.6	42.1	40.3	40.9	42.2	54.5	55.9	55.0		
145	52.4	51.9	45.8	45.6	44.7	43.6	52.2	53.0	52.8	54.6	48.1	33.4	41.3	44.4	42.6	50.3	52.5		
150	48.6	42.0	42.3	42.8	43.1	42.9	42.3	41.8	51.5	54.0	41.8	41.9	34.9	36.5	39.7	41.4	41.6		
155	45.8	36.3	44.2	44.2	44.2	44.1	44.0	44.1	44.4	45.6	44.1	44.1	44.1	37.7	40.0	41.7	44.1		
160	47.8	34.7	38.7	46.6	46.5	46.4	46.5	46.7	42.8	46.2	33.1	46.5	46.5	42.7	38.5	41.6	41.6		
165	50.1	36.5	36.4	48.7	48.7	48.6	48.7	49.0	47.0	39.2	34.9	34.7	48.6	48.4	41.8	46.9	43.2		
170	51.7	39.6	37.6	37.5	50.2	50.2	50.3	50.8	51.0	50.9	38.5	36.0	35.9	49.9	47.3	49.9	50.2		
175	52.7	52.5	52.3	52.3	52.2	65.2	61.9	52.0	51.8	51.8	51.5	51.4	51.3	51.2	65.4	54.8	51.9		
180	65.3	52.5	52.3	52.4	52.4	52.5	65.5	65.6	65.6	65.6	51.3	51.3	51.3	51.3	51.4	64.0	65.6		

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: