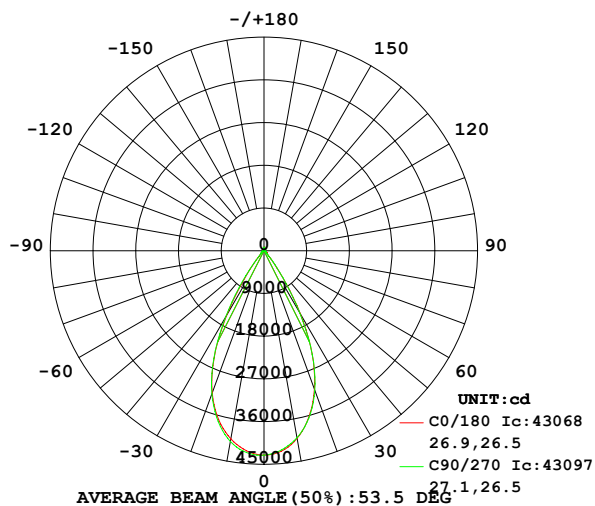


LUMINAIRE PHOTOMETRIC TEST REPORT

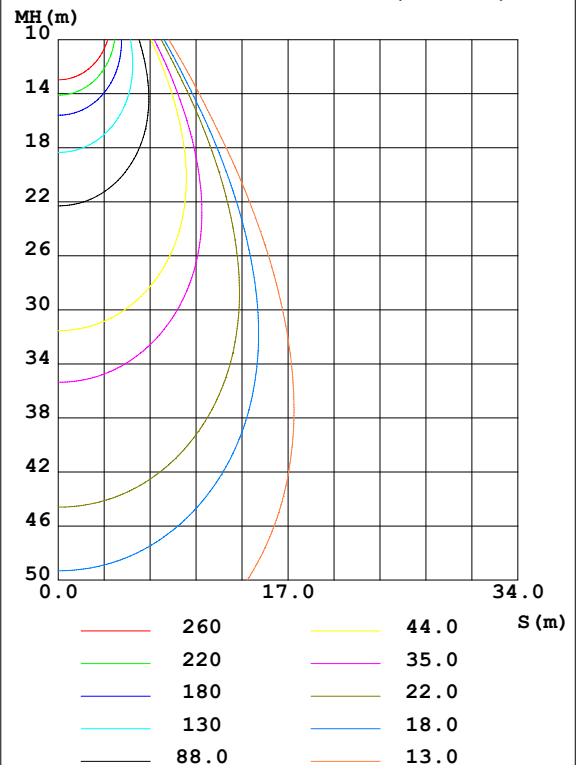
Test:U:220.2V I:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240W oH-3030-60D	DIM.: ϕ 0.4*0.141M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.79 lm/W			
MODEL	3030	I _{max} (cd)	43108	S/MH (C0/180)	0.81
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	0.81
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	33790	η UP, DN (C0-180)	2.2, 47.0
NOMINAL FLUX (lm)	33789.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.1, 48.7
LAMPS INSIDE	1	η up (%)	4.3	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	95.7	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	4014	3979	3999	4028	4024	4075	4080	4037	0- 10	3979	3979	11.8,11.8
20	3110	3094	3132	3177	3192	3275	3211	3110	10- 20	10215	14194	42,42
30	1530	1494	1497	1537	1580	1699	1630	1592	20- 30	11001	25195	74.6,74.6
40	237.1	219.4	237.1	243.3	257.1	266.6	269.5	273.7	30- 40	4828	30023	88.9,88.9
50	83.13	79.59	75.54	74.57	78.69	80.67	79.40	81.82	40- 50	942.5	30965	91.6,91.6
60	59.07	57.76	57.31	55.40	57.11	59.06	60.14	59.56	50- 60	618.6	31584	93.5,93.5
70	35.18	34.37	34.22	34.12	34.51	35.80	36.60	36.58	60- 70	455.9	32040	94.8,94.8
80	11.52	10.25	10.61	11.23	12.78	13.51	13.52	12.43	70- 80	251.2	32291	95.6,95.6
90	0.7318	0.3748	0.9506	0.5137	0.9358	0.3521	0.7885	0.4142	80- 90	36.96	32328	95.7,95.7
100	2.851	1.784	3.499	2.643	3.370	1.794	2.925	1.850	90-100	14.35	32342	95.7,95.7
110	8.435	4.606	9.121	6.236	8.839	4.797	10.87	5.030	100-110	45.98	32388	95.9,95.9
120	21.69	7.973	16.51	9.975	22.33	7.603	11.58	7.812	110-120	84.04	32472	96.1,96.1
130	39.04	21.67	41.18	27.78	38.10	26.01	39.30	20.25	120-130	190.9	32663	96.7,96.7
140	63.68	48.56	64.38	38.90	57.29	41.87	60.91	46.66	130-140	329.4	32992	97.6,97.6
150	48.41	48.44	51.45	56.15	51.68	54.00	55.66	49.74	140-150	344.1	33337	98.7,98.7
160	53.74	53.97	55.32	55.12	55.09	55.11	55.38	54.23	150-160	244.6	33581	99.4,99.4
170	58.34	42.39	59.51	44.42	59.67	51.47	60.03	50.83	160-170	151.9	33733	99.8,99.8
180	75.77	59.76	75.90	60.59	76.06	59.77	75.82	60.59	170-180	56.88	33790	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 30604 lm

%lum = 90.6%

%lamp = 90.6%

Conical surface Flux(120deg): 31584 lm

%lum = 93.5%

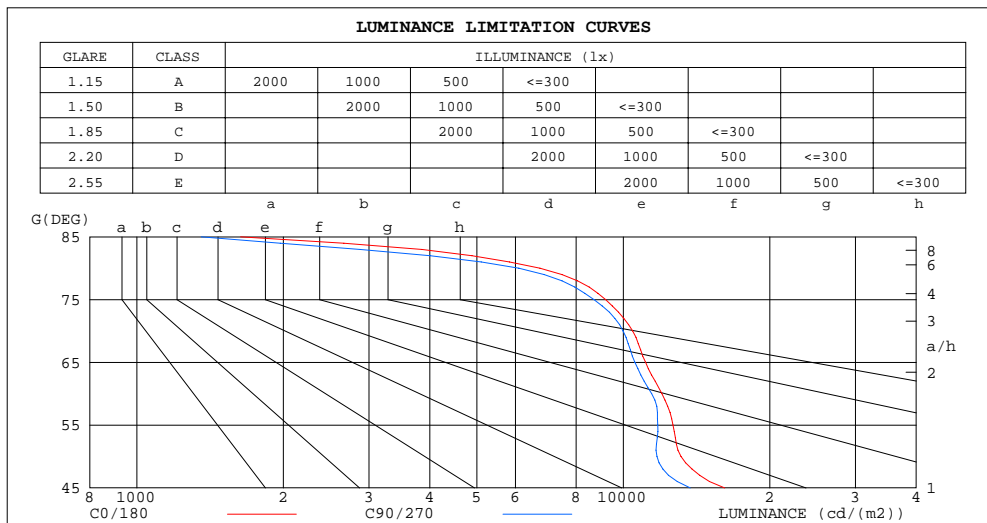
%lamp = 93.5%

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240W oH-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	1634	1356
80	6739	6097
75	9195	8702
70	10449	9984
65	11111	10562
60	12003	11436
55	12646	11768
50	13140	11725
45	16155	13722

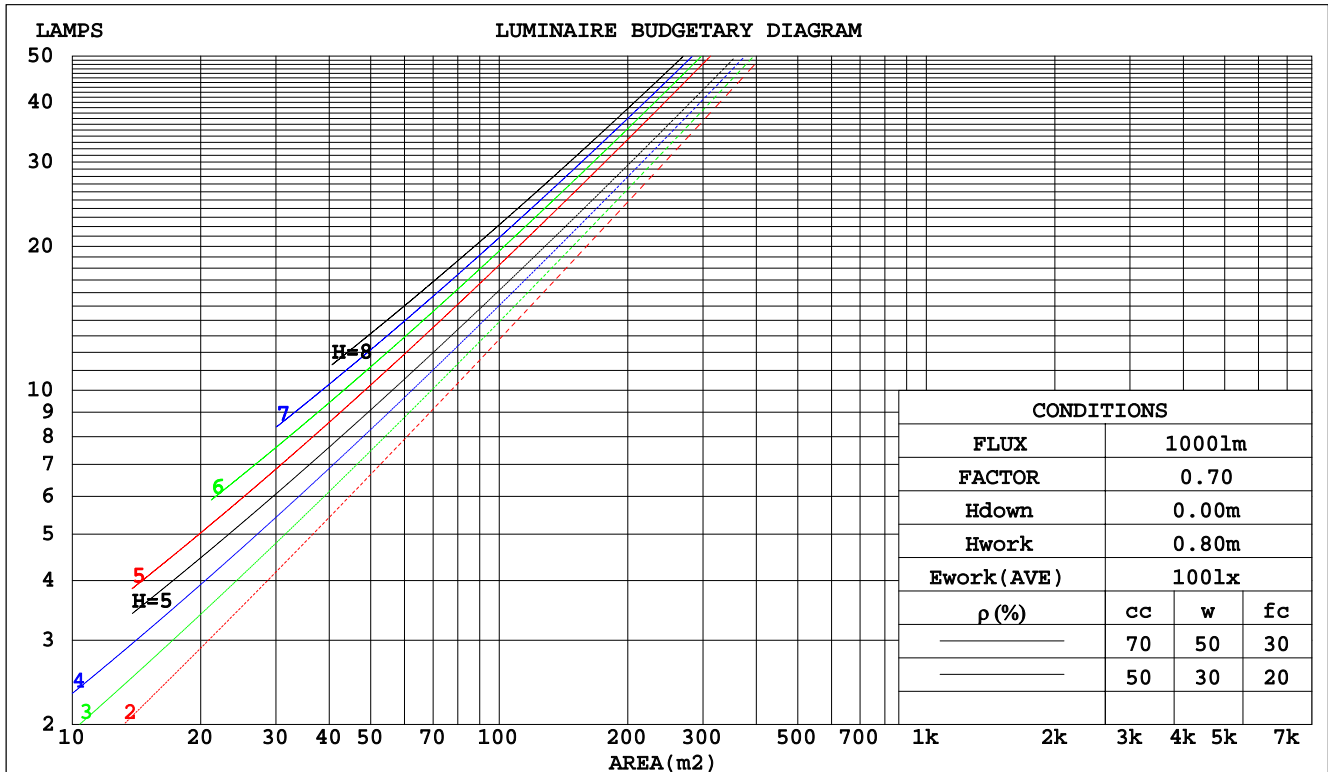
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-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	.94	.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	.87	.82	.79	.85	.81	.77	.82	.79	.76	.80	.77	.75	.73
5.0	.83	.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	.55	.54
10.0	.63	.58	.54	.63	.57	.54	.61	.57	.53	.60	.56	.53	.59	.55	.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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D	DIM.: ϕ 0.4*0.141M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 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	.074	.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	.062	.018	.115	.059	.017	.109	.057	.017	
8.0	.126	.062	.017	.123	.061	.017	.117	.058	.017	.111	.056	.016	.105	.054	.016	
9.0	.121	.058	.016	.118	.057	.016	.112	.055	.016	.107	.054	.015	.102	.052	.015	
10.0	.116	.055	.015	.113	.055	.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	.223	.223	.223	.191	.191	.191	.130	.130	.130	.075	.075	.075	.024	.024	.024	
1.0	.205	.191	.178	.175	.164	.153	.120	.112	.106	.069	.065	.062	.022	.021	.020	
2.0	.190	.166	.146	.163	.143	.126	.111	.099	.088	.064	.057	.052	.021	.019	.017	
3.0	.178	.147	.123	.152	.127	.107	.105	.088	.075	.060	.052	.044	.019	.017	.014	
4.0	.167	.133	.106	.144	.115	.092	.099	.080	.065	.057	.047	.038	.018	.015	.013	
5.0	.158	.121	.094	.136	.105	.081	.094	.073	.057	.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	.144	.104	.076	.124	.090	.067	.086	.063	.047	.050	.037	.028	.016	.012	.009	
8.0	.139	.098	.070	.119	.085	.061	.083	.060	.044	.048	.035	.026	.016	.012	.009	
9.0	.133	.093	.066	.115	.081	.057	.080	.057	.041	.046	.034	.024	.015	.011	.008	
10.0	.129	.089	.062	.111	.077	.054	.077	.054	.038	.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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm											
NAME: AOK oH					TYPE:LED			WEIGHT:6.0KG			
SPEC.:AOK-240WoH-3030-60D					DIM.: $\phi 0.4*0.141M$			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		6.1	7.0	6.4	7.3	7.5	5.7	6.6	6.0	6.8	7.1
	3H	6.5	7.3	6.8	7.6	7.9	6.1	6.9	6.4	7.2	7.5
	4H	6.7	7.5	7.0	7.8	8.1	6.2	7.0	6.6	7.3	7.6
	6H	6.8	7.5	7.1	7.8	8.1	6.3	7.1	6.7	7.4	7.7
	8H	6.8	7.5	7.1	7.8	8.1	6.3	7.0	6.7	7.3	7.7
	12H	6.7	7.4	7.1	7.7	8.1	6.2	6.9	6.6	7.3	7.6
4H	2H	6.1	6.9	6.5	7.2	7.5	5.7	6.5	6.1	6.8	7.1
	3H	6.7	7.3	7.0	7.7	8.0	6.3	7.0	6.7	7.3	7.7
	4H	6.9	7.5	7.3	7.9	8.3	6.5	7.2	7.0	7.5	7.9
	6H	7.1	7.6	7.5	8.0	8.5	6.7	7.2	7.1	7.6	8.1
	8H	7.1	7.6	7.5	8.0	8.5	6.7	7.2	7.1	7.6	8.0
	12H	7.0	7.5	7.5	7.9	8.4	6.6	7.1	7.1	7.5	8.0
8H	4H	6.9	7.4	7.4	7.9	8.3	6.6	7.1	7.0	7.5	8.0
	6H	7.1	7.5	7.6	8.0	8.5	6.8	7.2	7.3	7.6	8.1
	8H	7.1	7.5	7.7	8.0	8.5	6.7	7.1	7.3	7.6	8.1
	12H	7.1	7.4	7.6	7.9	8.5	6.7	7.0	7.2	7.5	8.1
12H	4H	6.9	7.4	7.4	7.8	8.3	6.5	7.0	7.0	7.4	7.9
	6H	7.1	7.5	7.6	7.9	8.5	6.7	7.1	7.2	7.6	8.1
	8H	7.1	7.4	7.6	7.9	8.5	6.7	7.0	7.2	7.5	8.1
Variations with the observer position at spacings:											
S = 1.0H	+ 1.7 / - 1.2					+ 1.8 / - 1.3					
1.5H	+ 3.3 / - 1.1					+ 3.5 / - 1.2					
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 33790 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 12.2$)

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

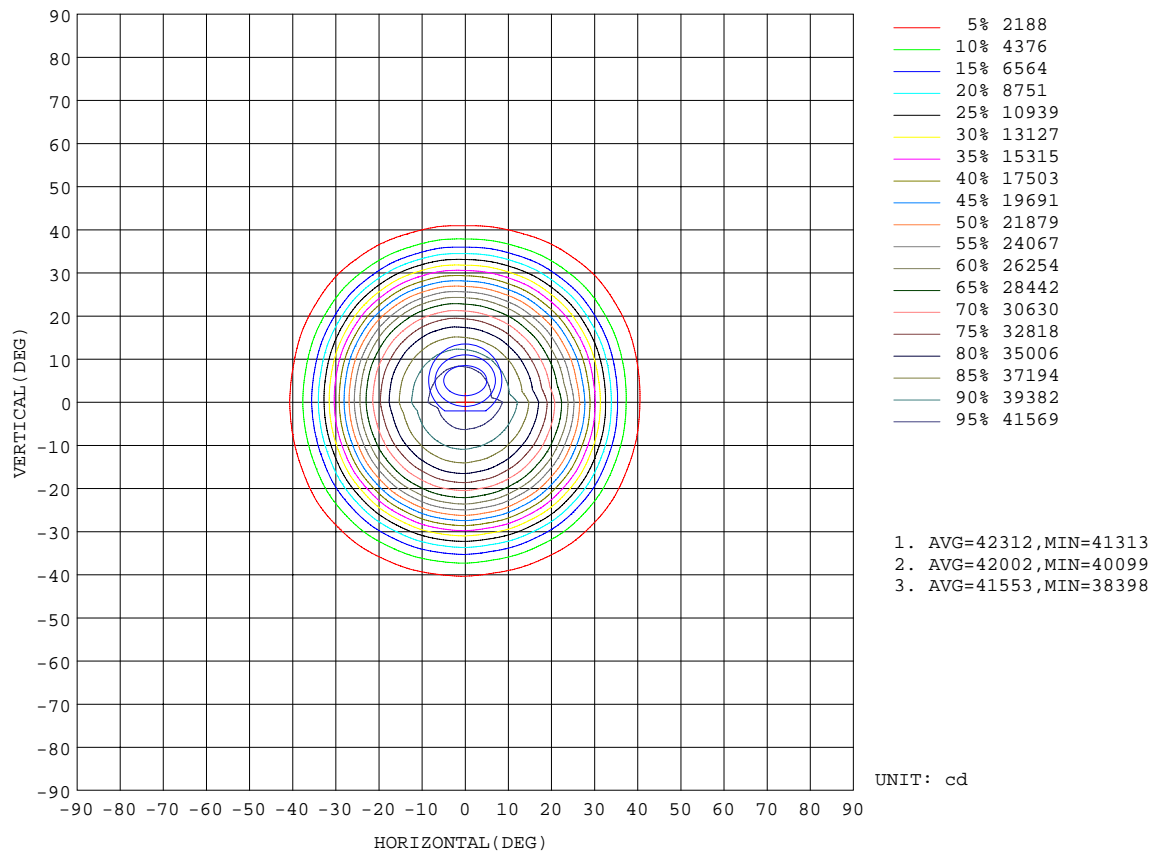
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	91	85	82	90	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	101	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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D	DIM.: ϕ 0.4*0.141M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:



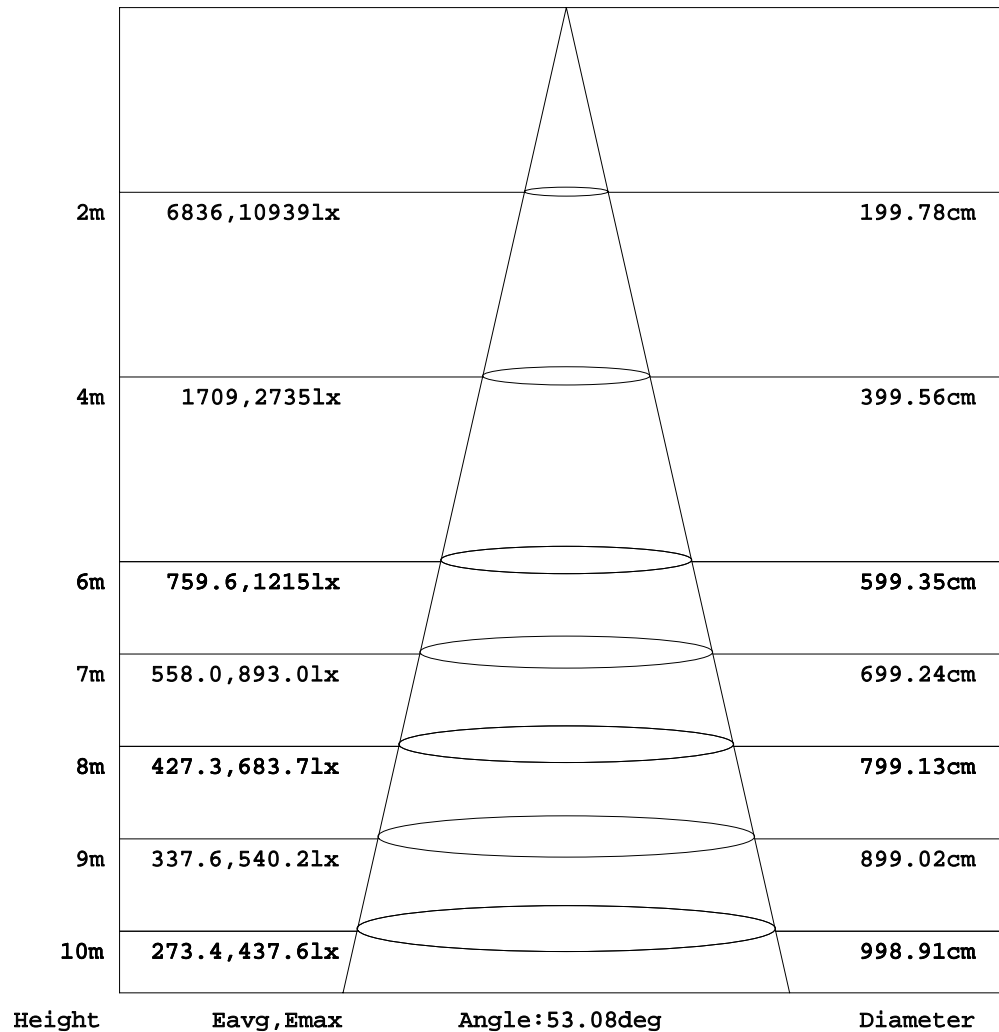
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-03-12

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Flux out:22302 lm



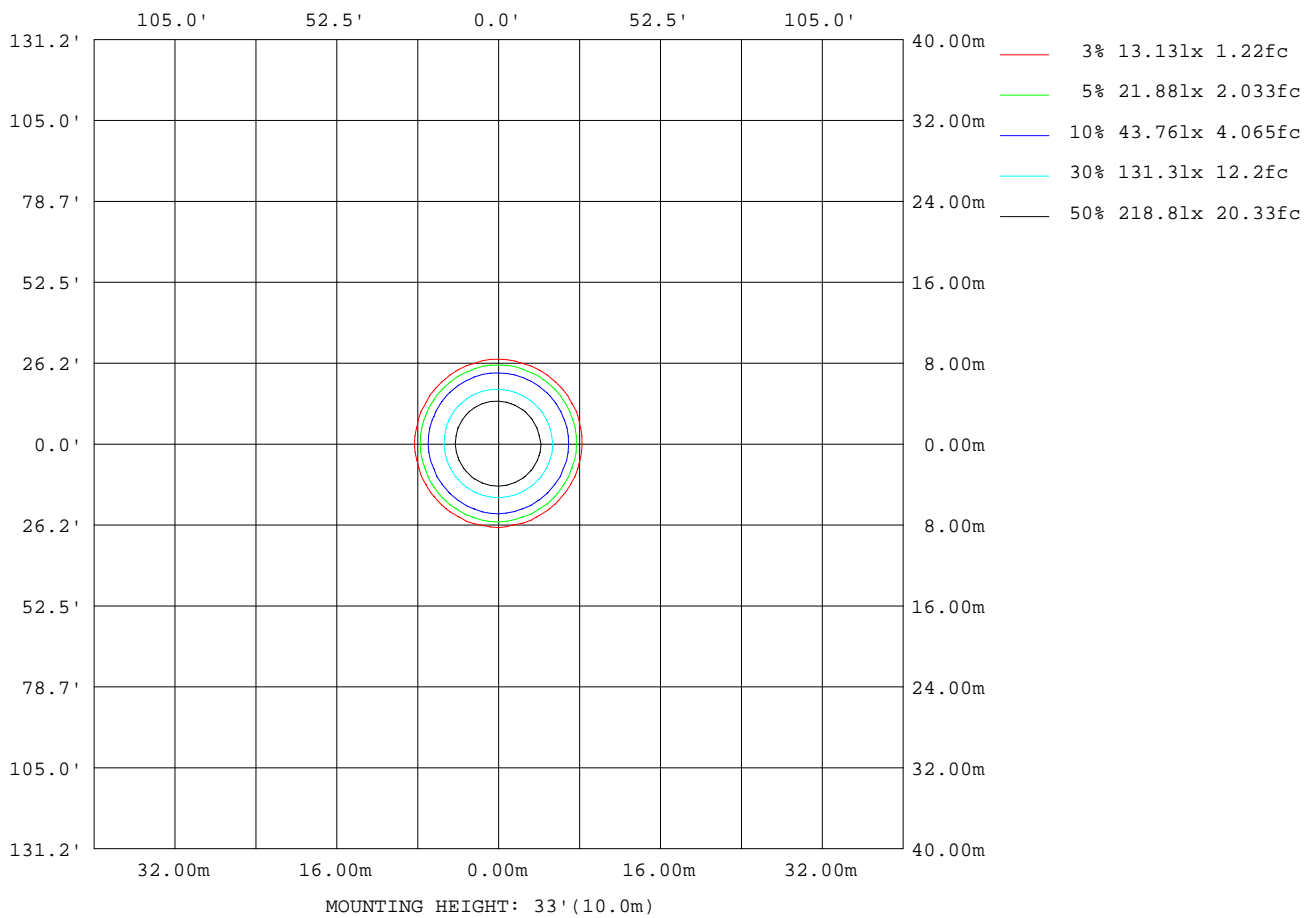
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D	DIM.: Φ 0.4*0.141M	SERIAL No.:
MFR.: AOK	SUR.: Φ 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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-60D	DIM.: ϕ 0.4*0.141M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

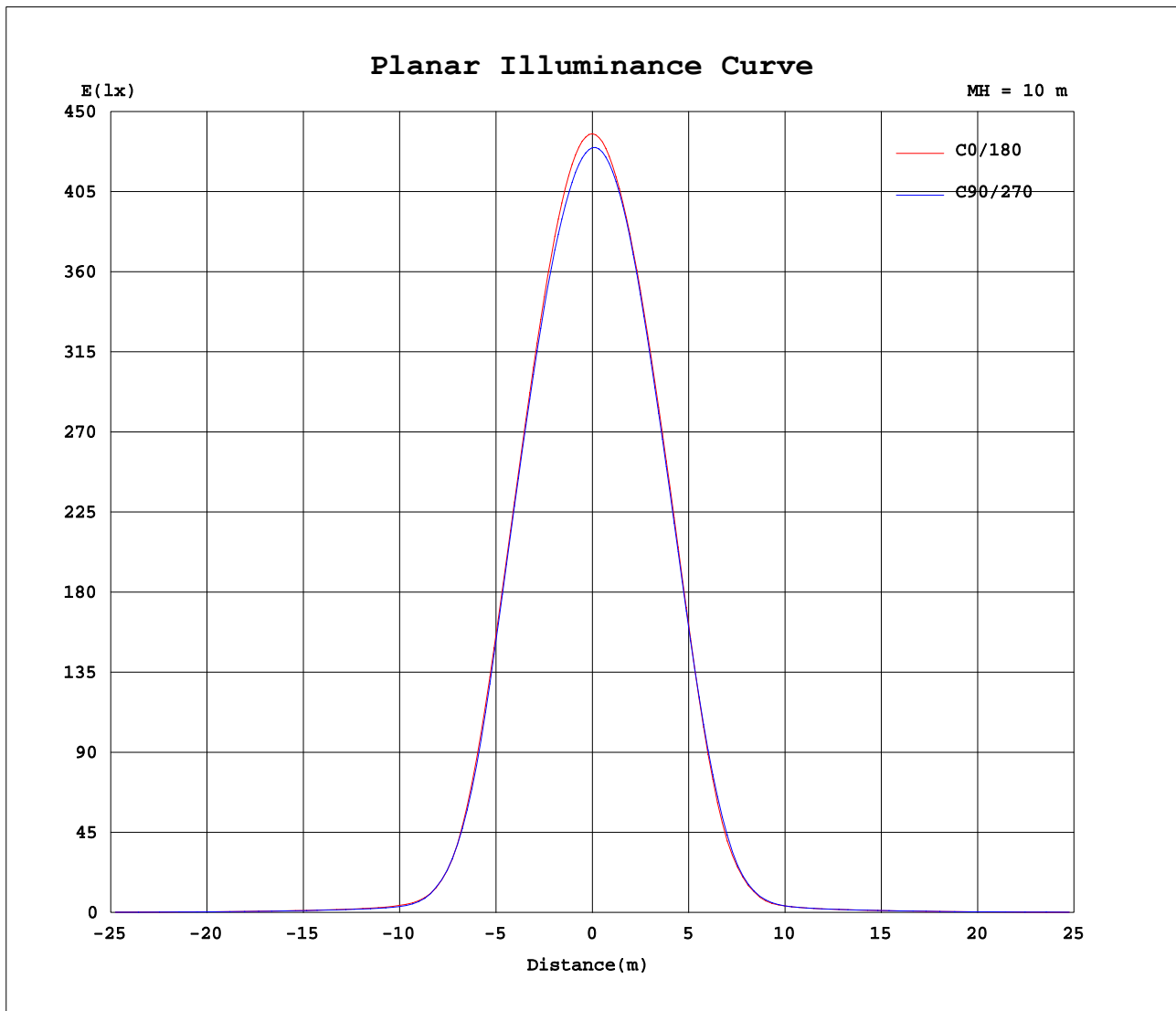
AvgL	cd/m2
L_0~180 (65) av	10780
L_0~180 (75) av	9096
L_0~180 (85) av	1660
L_90~270 (65) av	10888
L_90~270 (75) av	9206
L_90~270 (85) av	1692
L_45 (65) av	10743
L_45 (75) av	9264
L_45 (85) av	1506

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm		
NAME: AOK oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-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	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307
5	4237	4232	4221	4218	4211	4210	4206	4208	4207	4215	4216	4221	4222	4228	4228	4233	4234	4240	4230
10	4014	4006	3992	3987	3978	3979	3977	3983	3984	3999	4005	4015	4018	4028	4028	4035	4035	4044	4024
15	3639	3637	3624	3625	3617	3622	3620	3628	3630	3650	3658	3669	3670	3686	3688	3698	3702	3715	3687
20	3110	3114	3097	3102	3090	3098	3094	3108	3105	3132	3136	3151	3153	3175	3178	3200	3205	3227	3192
25	2404	2403	2381	2386	2368	2380	2364	2383	2373	2409	2411	2428	2428	2455	2459	2485	2493	2519	2487
30	1530	1536	1512	1517	1492	1497	1474	1482	1463	1497	1497	1517	1511	1540	1535	1564	1564	1593	1580
35	686	695	675	686	666	675	659	673	664	695	690	706	693	708	696	712	699	717	721
40	237	236	224	226	218	221	216	223	222	237	236	243	237	245	241	256	242	255	257
45	112	110	107	105	101	99.4	96.4	95.7	94.9	97.3	97.7	98.6	97.8	98.9	98.8	101	101	102	104
50	83.1	83.5	82.3	81.4	80.0	79.2	77.6	76.5	75.5	75.5	75.4	75.3	74.6	74.6	74.6	75.3	75.7	77.1	78.7
55	71.4	71.7	71.1	70.7	70.0	69.7	69.4	68.7	67.8	67.7	67.3	67.3	66.5	66.0	65.7	66.2	66.1	67.2	68.4
60	59.1	58.8	58.7	58.1	57.8	57.7	57.7	57.3	56.6	57.3	56.8	56.8	56.0	55.6	55.2	56.0	55.5	56.2	57.1
65	46.2	46.2	45.6	45.2	44.9	44.9	44.8	44.4	44.1	44.7	44.7	44.5	44.2	43.9	43.6	43.9	43.7	44.2	44.9
70	35.2	35.3	34.9	34.3	34.3	34.5	34.6	33.9	33.5	34.2	34.5	34.8	34.4	34.3	33.9	34.3	34.1	34.2	34.5
75	23.4	23.7	23.2	22.6	22.7	22.7	22.5	22.3	21.9	22.6	22.9	23.1	23.4	23.4	23.2	23.3	23.0	23.4	23.7
80	11.5	11.4	10.6	10.6	10.2	10.3	10.0	10.2	10.01	10.6	10.7	10.9	10.9	11.3	11.1	11.5	11.6	12.5	12.8
85	1.40	1.35	1.12	1.05	0.96	0.94	0.93	1.01	1.07	1.18	1.15	1.08	0.96	0.96	0.93	1.04	1.10	1.32	1.49
90	0.73	0.67	0.56	0.44	0.39	0.36	0.49	0.59	0.84	0.95	0.94	0.74	0.64	0.52	0.51	0.64	0.79	0.97	0.94
95	1.52	1.32	1.10	0.84	0.61	0.64	0.86	0.99	1.35	1.69	1.87	1.54	1.55	1.31	1.28	1.43	1.40	1.56	1.48
100	2.85	2.53	2.56	2.16	1.76	1.81	2.18	2.23	2.97	3.50	3.58	3.06	2.88	2.68	2.61	2.65	2.68	3.31	3.37
105	6.31	4.82	4.05	3.16	2.87	2.85	3.21	3.82	5.64	6.93	5.68	4.13	4.22	3.91	3.82	4.20	3.86	5.96	7.27
110	8.44	5.65	5.75	4.90	4.56	4.65	5.38	4.58	8.79	9.12	6.10	7.54	6.72	6.15	6.32	6.31	7.53	5.87	8.84
115	8.02	9.51	6.20	6.37	6.70	6.43	6.32	6.32	8.21	12.6	12.5	9.64	9.08	8.60	8.64	8.67	8.44	10.2	9.05
120	21.7	13.0	9.01	7.94	8.08	7.87	8.36	11.5	9.00	16.5	21.7	19.2	12.0	9.95	10.00	10.8	14.6	19.2	22.3
125	27.3	26.3	20.8	16.7	15.2	14.8	14.9	17.9	25.6	26.2	29.2	24.7	24.9	23.0	21.2	20.5	24.3	29.4	38.2
130	39.0	40.9	32.9	23.0	21.8	21.6	25.7	37.4	48.5	41.2	30.4	27.2	26.4	27.4	28.1	29.2	34.7	35.7	38.1
135	48.4	45.9	47.6	47.0	36.4	37.1	46.5	52.9	60.9	57.4	49.9	37.3	35.6	27.6	28.7	36.2	44.4	47.6	46.4
140	63.7	57.5	53.1	46.8	48.1	49.1	51.6	64.3	62.1	64.4	60.9	55.2	40.7	38.7	39.1	40.9	58.1	60.0	57.3
145	53.4	57.6	54.6	51.4	51.8	51.7	49.9	58.1	45.7	62.6	62.6	55.4	54.1	52.6	51.9	51.6	64.5	66.6	50.2
150	48.4	47.6	47.8	48.4	48.5	48.3	48.3	57.5	54.5	51.4	51.5	54.4	56.1	56.5	55.8	54.7	67.5	66.9	51.7
155	50.7	50.8	50.7	50.9	51.1	51.3	51.4	63.7	52.4	52.3	52.4	52.6	53.3	54.0	54.3	54.1	65.9	52.7	52.2
160	53.7	53.7	53.5	53.7	53.9	54.1	42.1	55.2	55.4	55.3	55.1	54.8	54.9	55.0	55.2	48.1	55.6	55.7	55.1
165	56.4	56.3	56.0	56.1	56.3	41.1	41.1	57.6	57.9	57.8	57.5	57.2	57.2	57.3	43.1	42.6	58.2	58.4	57.7
170	58.3	58.1	57.7	57.9	42.5	42.3	42.6	59.4	59.6	59.5	59.1	58.8	58.8	44.9	43.9	44.2	60.1	60.3	59.7
175	59.4	71.7	75.5	64.0	59.7	59.9	59.9	60.3	60.3	60.5	71.7	75.6	64.6	60.4	60.5	60.6	61.0	61.1	60.7
180	75.8	76.0	59.8	59.8	59.7	59.8	59.8	75.8	75.8	75.9	75.8	60.7	60.5	60.6	60.6	60.6	75.0	75.9	76.1

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:1.126A P:240.0W PF:0.9782 Freq:49.80Hz Lamp Flux:33789.9x1 lm																	
NAME: AOK oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-60D									DIM.: ϕ 0.4*0.141M						SERIAL No.:		
MFR.: AOK									SUR.: ϕ 0.29M						Shielding Angle:		

Table--2

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

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307	4307		
5	4235	4244	4249	4259	4262	4269	4270	4272	4266	4265	4260	4259	4252	4248	4240	4236	4228		
10	4031	4048	4056	4073	4078	4090	4090	4094	4080	4076	4063	4058	4041	4033	4017	4011	3997		
15	3700	3723	3735	3754	3757	3767	3758	3754	3727	3712	3690	3679	3656	3646	3627	3623	3611		
20	3210	3237	3253	3274	3276	3282	3266	3254	3211	3186	3156	3142	3115	3105	3088	3089	3082		
25	2508	2549	2566	2593	2590	2595	2570	2558	2504	2484	2453	2448	2423	2422	2401	2408	2395		
30	1601	1652	1663	1702	1695	1711	1682	1683	1630	1626	1602	1611	1587	1596	1575	1582	1555		
35	727	756	765	794	795	817	810	822	794	795	780	783	763	762	739	736	717		
40	247	263	253	272	261	281	270	288	269	281	267	282	267	280	263	272	255		
45	104	106	106	107	105	106	104	107	107	110	113	114	116	116	117	116	116		
50	79.4	80.4	80.4	81.0	80.4	79.8	79.0	79.3	79.4	80.5	80.8	81.3	81.4	82.3	82.6	83.4	83.7		
55	69.0	69.7	69.6	70.2	70.4	71.0	70.7	70.8	70.6	71.1	71.4	71.3	70.7	70.9	71.1	71.3	71.7		
60	57.7	58.8	57.9	59.1	59.0	60.5	60.1	60.3	60.1	60.4	60.4	60.6	59.7	59.4	59.2	59.7	59.9		
65	45.1	45.6	45.4	46.0	46.2	47.0	46.8	47.3	47.3	47.6	47.5	47.7	47.0	46.9	46.7	46.8	46.9		
70	34.7	35.3	35.0	35.7	35.9	36.7	36.6	36.6	36.6	37.1	37.0	37.3	36.7	36.5	36.3	36.1	35.8		
75	23.7	24.0	24.0	24.8	24.9	25.4	25.1	25.2	25.1	25.4	25.2	25.7	25.2	25.0	24.9	24.6	24.2		
80	12.8	12.8	12.9	13.5	13.5	13.7	13.7	13.9	13.5	13.3	12.9	12.9	12.5	12.4	12.1	12.0	12.0		
85	1.55	1.71	1.74	2.14	1.90	2.05	1.93	2.13	1.77	1.69	1.43	1.42	1.32	1.35	1.33	1.50	1.51		
90	0.76	0.56	0.45	0.36	0.35	0.45	0.56	0.75	0.79	0.68	0.53	0.41	0.31	0.52	0.45	0.54	0.65		
95	1.32	1.12	0.94	0.59	0.61	0.90	1.04	1.45	1.45	1.21	0.95	0.78	0.57	0.61	0.93	1.09	1.42		
100	2.97	2.48	2.21	1.78	1.81	2.31	2.36	2.77	2.92	2.56	1.94	2.00	1.76	1.94	2.31	2.52	2.86		
105	5.38	4.24	3.35	3.20	3.15	3.39	3.74	5.85	7.04	5.87	3.71	3.37	3.12	3.14	3.46	3.86	5.50		
110	5.72	6.06	5.27	4.70	4.89	5.08	5.35	7.10	10.9	7.71	4.81	4.98	5.10	4.96	5.10	5.51	6.75		
115	6.80	7.62	6.17	5.96	5.90	6.24	10.0	9.68	13.0	7.75	7.55	6.33	6.46	6.30	6.23	7.88	10.2		
120	14.3	10.1	7.69	7.57	7.64	9.88	16.6	20.1	11.6	10.3	10.9	7.66	7.87	7.76	7.48	9.40	15.0		
125	29.7	20.3	16.4	17.2	18.7	20.2	20.0	23.6	24.1	22.3	13.8	14.0	14.6	14.9	16.8	21.1	27.8		
130	41.0	39.3	30.4	26.9	25.1	22.9	22.8	32.2	39.3	43.1	29.7	20.6	18.9	21.6	23.4	26.9	34.7		
135	42.7	44.8	41.4	31.7	30.2	34.6	40.5	43.9	58.8	57.7	48.3	44.5	34.2	33.8	40.7	44.8	55.7		
140	58.1	47.1	42.6	41.7	42.0	48.4	58.3	65.7	60.9	53.5	59.2	47.0	46.7	46.6	50.5	58.4	59.6		
145	63.4	60.3	49.6	51.0	52.7	54.0	62.3	63.4	59.8	60.5	55.7	53.0	53.0	52.1	50.8	58.8	61.5		
150	50.3	66.4	53.7	53.9	54.1	53.7	52.1	49.7	55.7	62.0	62.0	48.8	49.5	49.9	49.9	49.3	48.6		
155	51.9	44.0	54.8	54.9	54.0	53.1	52.2	52.2	52.3	52.4	55.4	45.8	51.6	51.4	51.3	51.1	51.3		
160	54.9	43.0	40.4	55.2	55.0	54.8	54.9	55.2	55.4	55.4	43.9	54.3	54.4	54.1	54.0	53.9	54.3		
165	57.6	45.4	42.4	49.6	57.4	57.3	57.2	57.7	54.6	50.4	43.2	42.3	44.5	56.6	56.5	56.5	56.9		
170	59.5	50.3	43.9	43.7	59.2	59.2	59.2	59.7	60.0	60.1	51.1	43.7	43.6	58.1	58.3	58.3	58.8		
175	60.4	60.2	59.7	59.7	59.4	75.3	73.5	63.9	61.2	61.2	60.8	60.6	60.5	60.4	75.3	73.5	64.5		
180	75.8	60.0	59.7	59.8	59.7	59.8	75.7	75.9	75.8	75.8	60.7	60.6	60.6	60.6	60.6	74.8	75.9		

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: