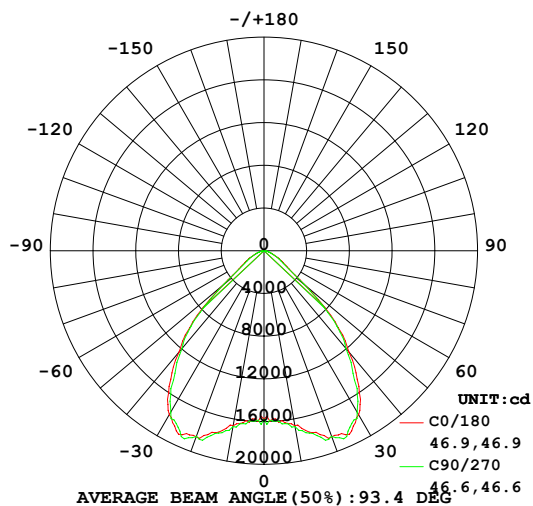


LUMINAIRE PHOTOMETRIC TEST REPORT

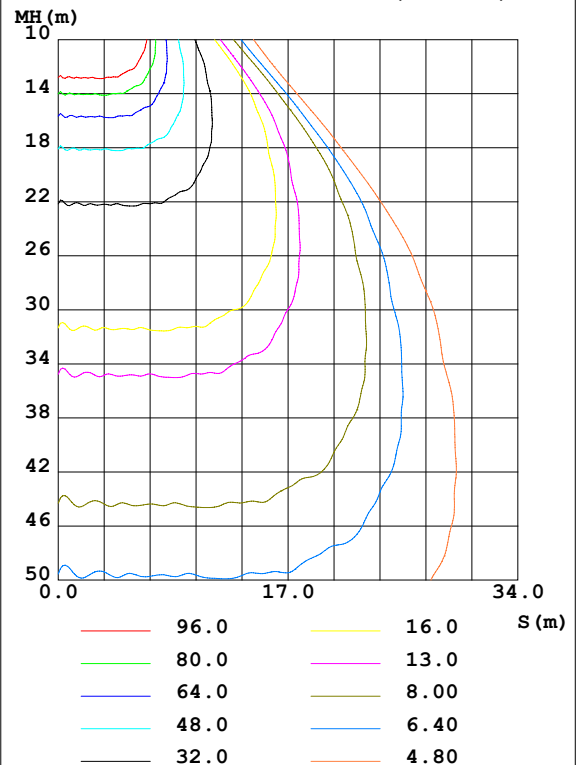
Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.83 lm/W			
MODEL	5050	I _{max} (cd)	19130	S/MH (C0/180)	1.35
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.34
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	35254	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	35254.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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	1664	1673	1672	1673	1664	1673	1672	1673	0- 10	1546	1546	4.38,4.38
20	1854	1858	1848	1858	1854	1858	1848	1858	10- 20	5050	6596	18.7,18.7
30	1773	1734	1746	1734	1773	1734	1746	1734	20- 30	8440	15036	42.6,42.6
40	1237	1217	1195	1217	1237	1217	1195	1217	30- 40	9307	24343	69,69
50	509.9	462.3	489.3	462.3	509.9	462.3	489.3	462.3	40- 50	6706	31048	88.1,88.1
60	185.1	171.8	173.4	171.8	185.1	171.8	173.4	171.8	50- 60	2424	33472	94.9,94.9
70	77.21	70.70	74.64	70.70	77.21	70.70	74.64	70.70	60- 70	1164	34635	98.2,98.2
80	23.28	23.13	26.02	23.13	23.28	23.13	26.02	23.13	70- 80	468.0	35103	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	150.8	35254	100,100
100	0	0	0	0	0	0	0	0	90-100	0	35254	100,100
110	0	0	0	0	0	0	0	0	100-110	0	35254	100,100
120	0	0	0	0	0	0	0	0	110-120	0	35254	100,100
130	0	0	0	0	0	0	0	0	120-130	0	35254	100,100
140	0	0	0	0	0	0	0	0	130-140	0	35254	100,100
150	0	0	0	0	0	0	0	0	140-150	0	35254	100,100
160	0	0	0	0	0	0	0	0	150-160	0	35254	100,100
170	0	0	0	0	0	0	0	0	160-170	0	35254	100,100
180	0	0	0	0	0	0	0	0	170-180	0	35254	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 28273 lm

%lum = 80.2%

%lamp = 80.2%

Conical surface Flux(120deg): 33472 lm

%lum = 94.9%

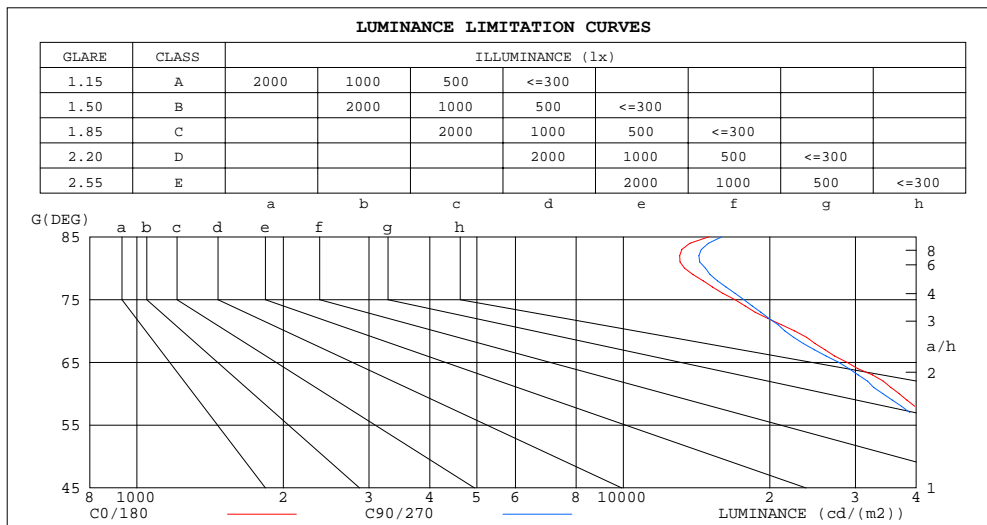
%lamp = 94.9%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	14983	15941
80	13361	14749
75	16949	17680
70	22500	21482
65	28826	27714
60	36893	34144
55	46552	43070
50	79060	74933
45	132966	128636

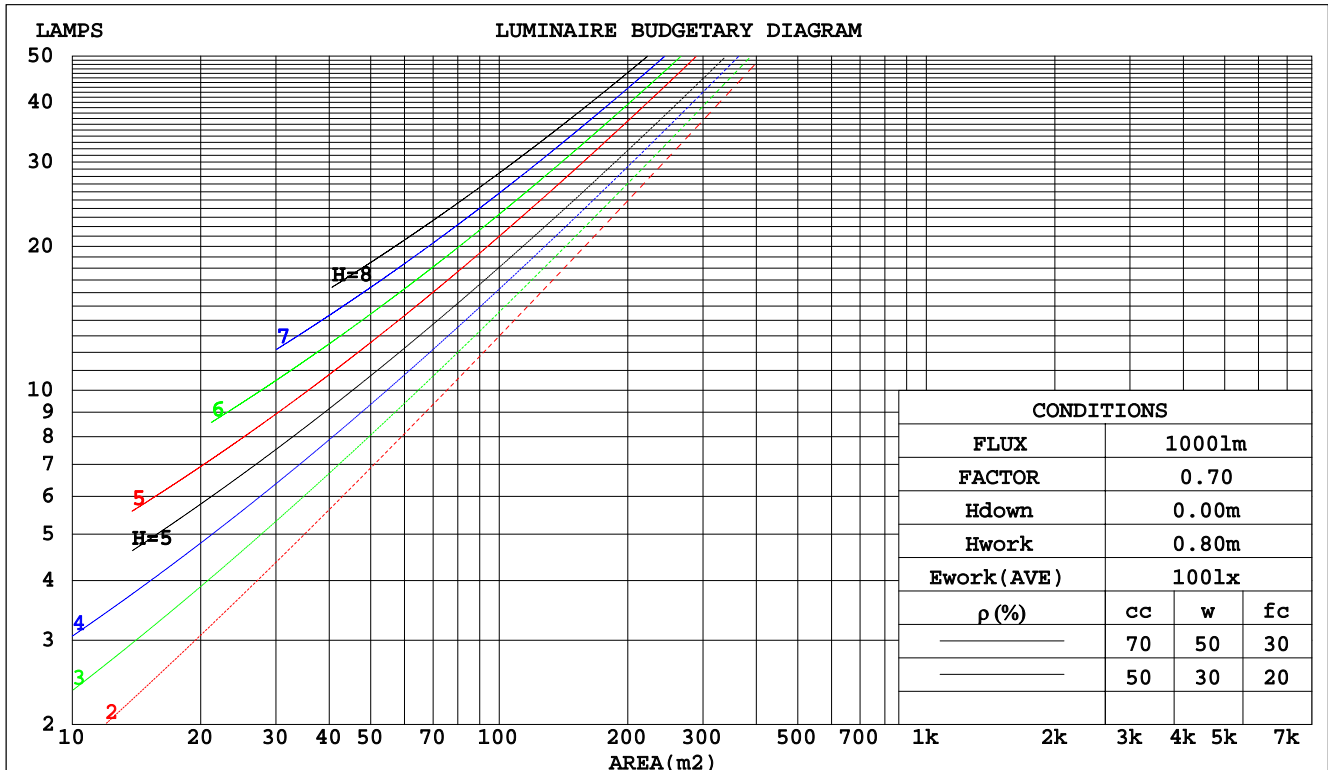
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.97	.98	.96	.94	.95	.93	.92	.90
2.0	.98	.93	.88	.96	.91	.87	.93	.89	.85	.90	.86	.83	.87	.84	.82	.80
3.0	.89	.82	.77	.87	.81	.77	.84	.79	.75	.82	.78	.74	.79	.76	.73	.71
4.0	.81	.74	.68	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.69	.65	.63
5.0	.74	.66	.61	.72	.66	.60	.71	.64	.60	.69	.63	.59	.67	.62	.59	.57
6.0	.67	.60	.54	.66	.59	.54	.65	.58	.54	.63	.58	.53	.62	.57	.53	.51
7.0	.62	.54	.49	.61	.54	.49	.60	.53	.49	.58	.52	.48	.57	.52	.48	.46
8.0	.57	.49	.44	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.42
9.0	.53	.45	.40	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.38
10.0	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.46	.40	.37	.35



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: ϕ 0.4*0.141M	SERIAL No.:1
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	.228	.129	.041	.221	.126	.040	.208	.119	.038	.196	.113	.036	.185	.107	.035	
2.0	.220	.121	.037	.214	.118	.036	.203	.113	.035	.193	.108	.034	.184	.104	.033	
3.0	.210	.112	.033	.205	.110	.033	.195	.106	.032	.186	.102	.031	.178	.099	.031	
4.0	.199	.104	.030	.195	.102	.030	.186	.099	.030	.178	.096	.029	.171	.093	.028	
5.0	.189	.096	.028	.185	.095	.028	.177	.092	.027	.170	.090	.027	.164	.088	.026	
6.0	.179	.090	.026	.175	.089	.025	.169	.086	.025	.162	.084	.025	.157	.082	.024	
7.0	.170	.084	.024	.166	.083	.024	.161	.081	.023	.155	.079	.023	.150	.078	.023	
8.0	.161	.079	.022	.158	.078	.022	.153	.076	.022	.148	.075	.022	.143	.073	.021	
9.0	.153	.074	.021	.151	.073	.021	.146	.072	.020	.141	.071	.020	.137	.070	.020	
10.0	.146	.070	.019	.143	.069	.019	.139	.068	.019	.135	.067	.019	.131	.066	.019	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.107	.139	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.038	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.107	.063	.032	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.119	.067	.032	.102	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.109	.058	.024	.094	.050	.021	.065	.035	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-240WoH-5050-90D-PC-ALL					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:1		
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	13.9	15.2	14.2	15.3	15.5	13.7	14.9	13.9	15.1	15.3
3H	14.0	15.1	14.3	15.4	15.6	13.8	14.9	14.0	15.1	15.3
4H	14.0	15.1	14.3	15.3	15.6	13.8	14.8	14.1	15.1	15.3
6H	14.0	15.0	14.3	15.2	15.5	13.8	14.8	14.1	15.0	15.3
8H	14.0	14.9	14.3	15.2	15.5	13.7	14.7	14.1	15.0	15.3
12H	13.9	14.9	14.3	15.1	15.4	13.7	14.7	14.1	14.9	15.2
4H 2H	13.8	14.9	14.1	15.1	15.4	13.6	14.7	13.9	14.9	15.1
3H	14.0	14.9	14.3	15.2	15.5	13.8	14.7	14.1	15.0	15.3
4H	14.0	14.9	14.4	15.2	15.5	13.8	14.7	14.2	15.0	15.3
6H	14.1	14.8	14.4	15.1	15.5	13.9	14.6	14.3	15.0	15.3
8H	14.1	14.7	14.5	15.1	15.5	13.9	14.6	14.3	14.9	15.3
12H	14.1	14.7	14.5	15.1	15.4	13.9	14.5	14.3	14.9	15.3
8H 4H	14.0	14.7	14.4	15.0	15.4	13.8	14.5	14.2	14.8	15.2
6H	14.0	14.6	14.5	15.0	15.4	13.9	14.4	14.3	14.8	15.2
8H	14.1	14.5	14.5	15.0	15.4	13.9	14.4	14.3	14.8	15.2
12H	14.1	14.5	14.6	14.9	15.4	13.9	14.3	14.4	14.8	15.3
12H 4H	14.0	14.6	14.4	14.9	15.3	13.8	14.4	14.2	14.7	15.1
6H	14.0	14.5	14.5	14.9	15.4	13.8	14.3	14.3	14.7	15.2
8H	14.0	14.5	14.5	14.9	15.4	13.9	14.3	14.4	14.7	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 2.8					+ 1.7 / - 2.7				
1.5H	+ 1.7 / - 2.9					+ 1.7 / - 2.8				
2.0H	+ 4.2 / - 2.7					+ 4.2 / - 2.5				

CIE Pub.117, 35254 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 12.4$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

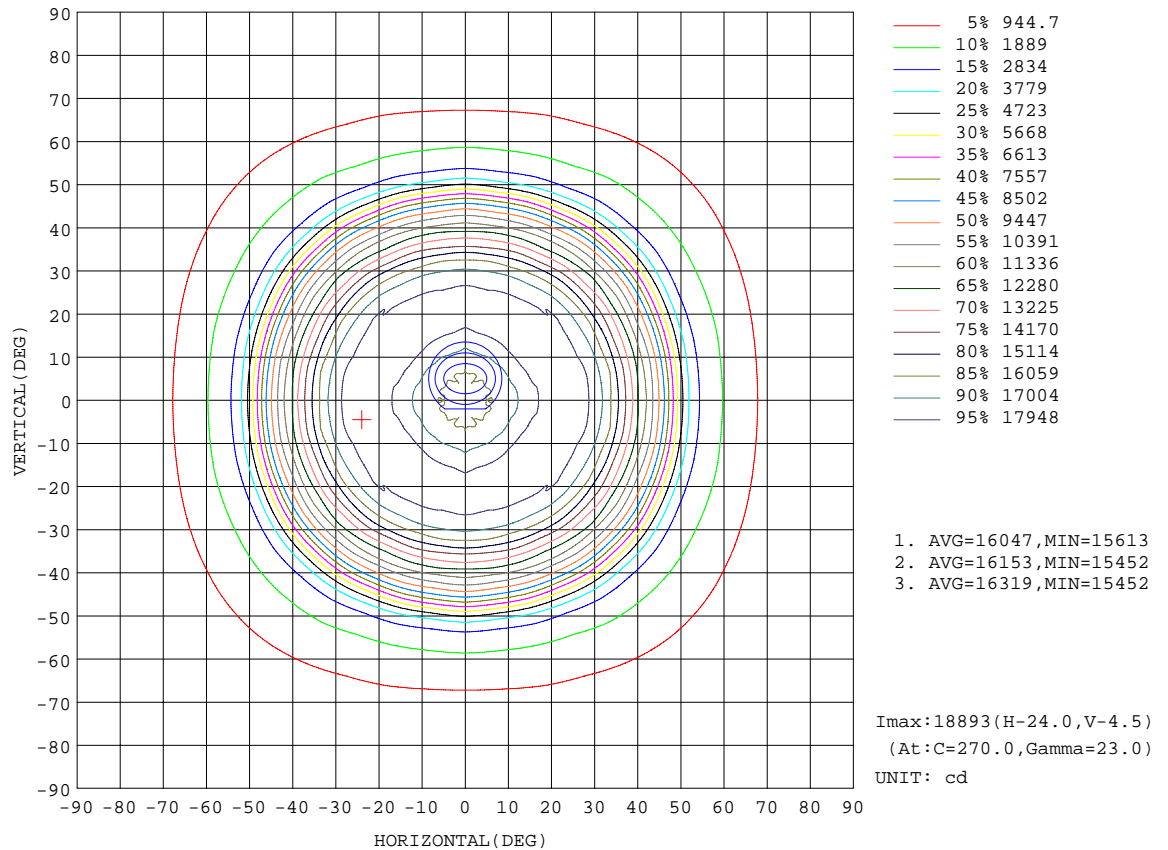
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	72	63	57	71	63	57	70	62	57	52
0.80	82	73	67	81	73	67	79	72	67	62
1.00	89	81	75	88	80	75	86	81	75	69
1.25	95	87	82	93	87	82	91	85	81	75
1.50	99	92	87	97	91	86	95	89	85	80
2.00	103	97	93	102	96	92	99	94	91	84
2.50	106	100	96	104	99	95	101	97	93	87
3.00	108	103	100	106	102	98	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

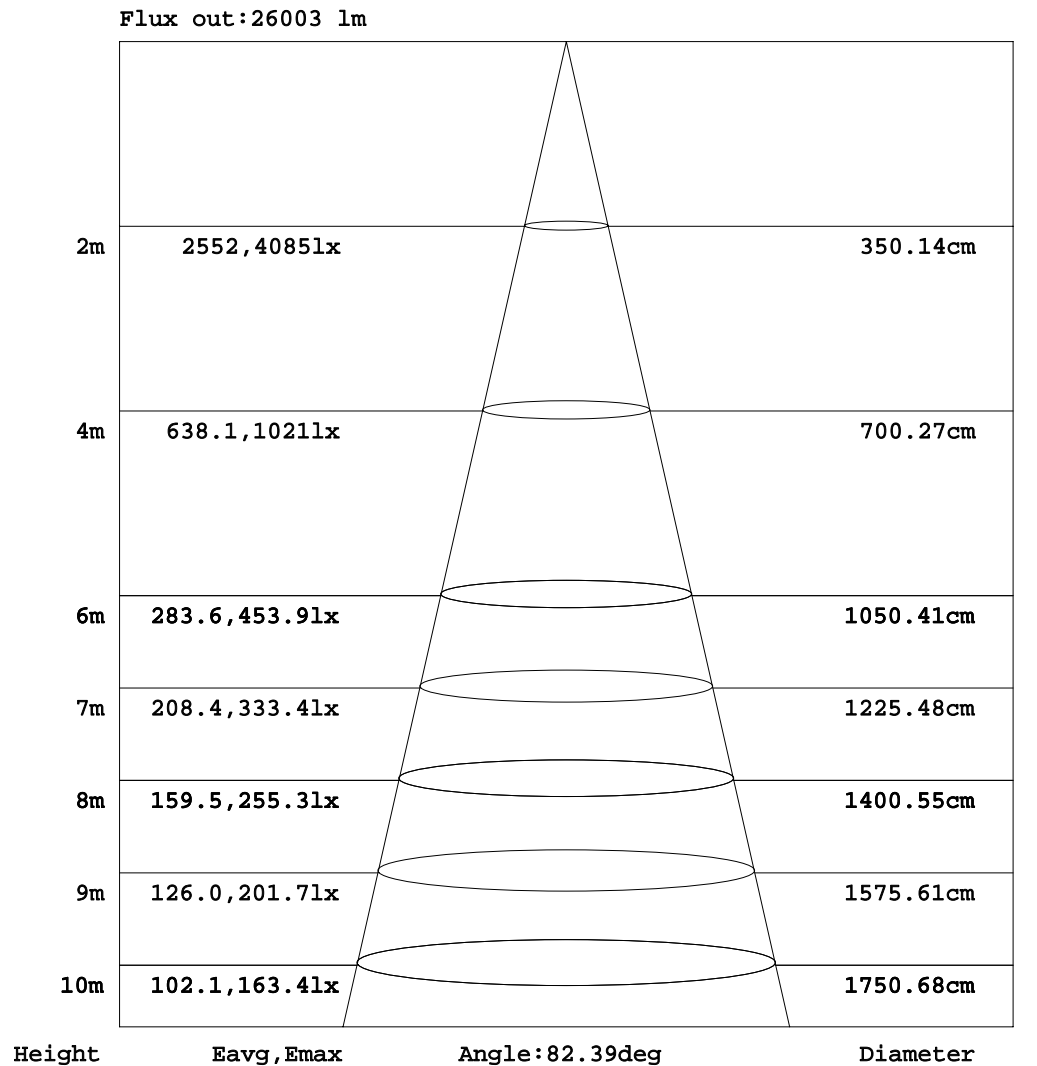


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



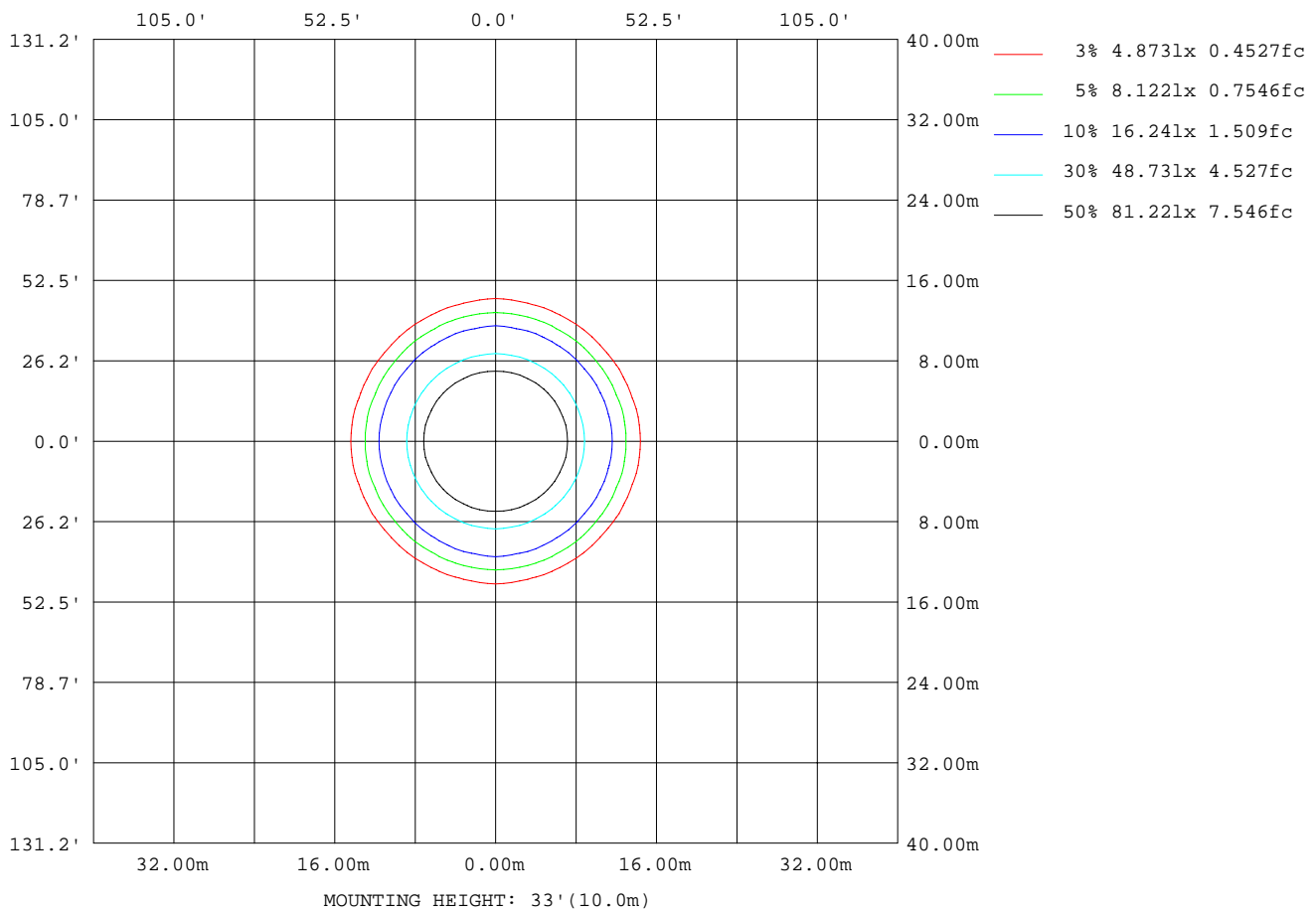
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.633m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
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: 2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.633m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: ϕ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

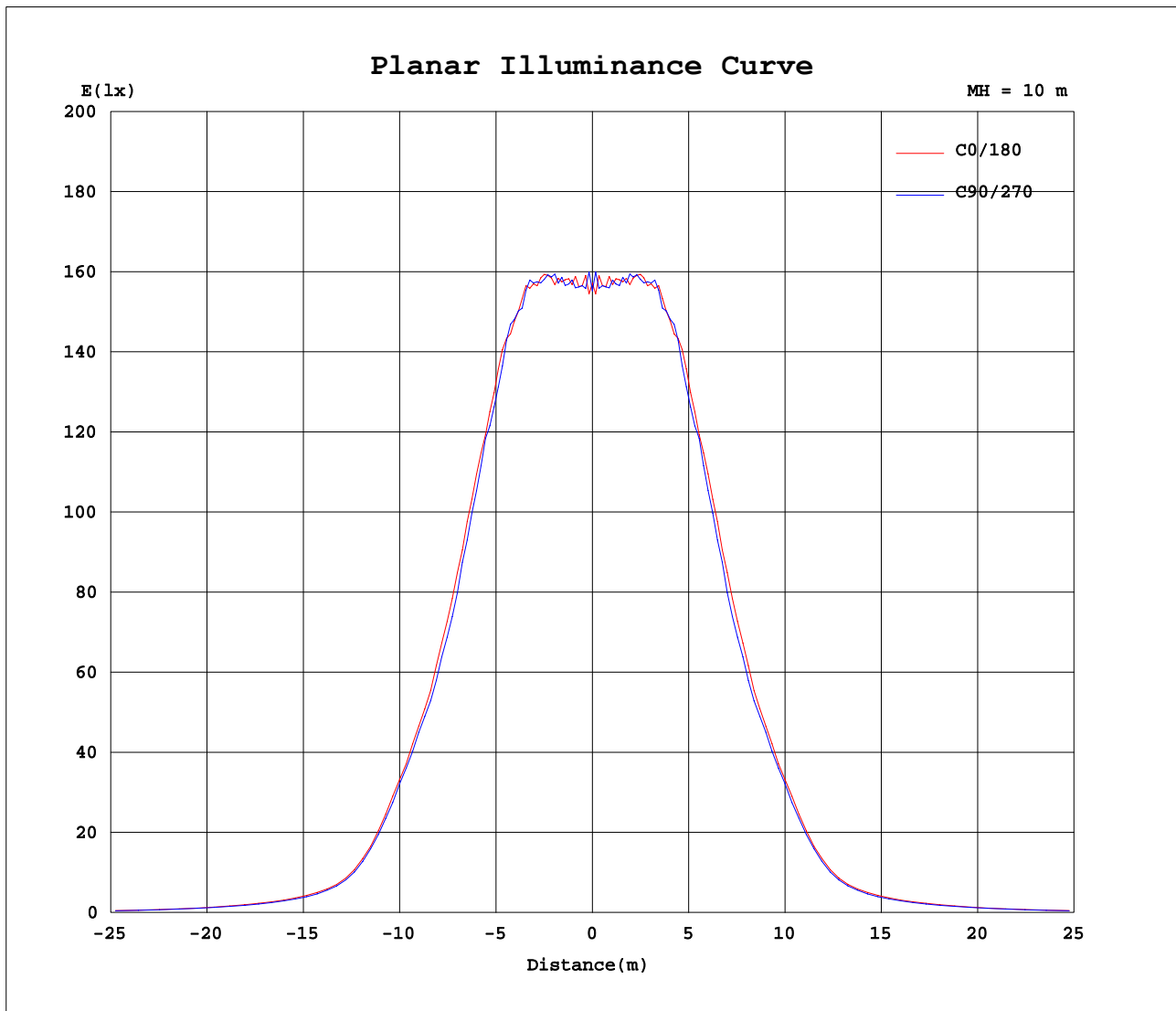
AvgL	cd/m2
L_0~180 (65) av	28921
L_0~180 (75) av	17005
L_0~180 (85) av	15033
L_90~270 (65) av	28155
L_90~270 (75) av	17962
L_90~270 (85) av	16194
L_45 (65) av	26982
L_45 (75) av	16046
L_45 (85) av	14987

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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: 2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.633m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
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	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577
5	1612	1614	1579	1587	1597	1587	1604	1606	1603	1603	1603	1606	1604	1587	1597	1587	1579	1614	1612
10	1664	1646	1669	1660	1673	1674	1650	1666	1660	1672	1660	1666	1650	1674	1673	1660	1669	1646	1664
15	1764	1758	1770	1787	1789	1788	1773	1775	1775	1773	1775	1775	1773	1788	1789	1787	1770	1758	1764
20	1854	1832	1857	1839	1874	1842	1865	1816	1857	1848	1857	1816	1865	1842	1874	1839	1857	1832	1854
25	1895	1884	1862	1852	1849	1856	1823	1847	1841	1863	1841	1847	1823	1856	1849	1852	1862	1884	1895
30	1773	1759	1762	1742	1748	1721	1709	1717	1712	1746	1712	1717	1709	1721	1748	1742	1762	1759	1773
35	1550	1527	1533	1504	1506	1504	1478	1480	1448	1476	1448	1480	1478	1504	1506	1504	1533	1527	1550
40	1237	1243	1231	1209	1232	1202	1180	1196	1202	1195	1202	1196	1180	1202	1232	1209	1231	1243	1237
45	943	935	912	915	895	893	879	883	883	924	883	883	879	893	895	915	912	935	943
50	510	500	489	477	460	464	452	460	455	489	455	460	452	464	460	477	489	500	510
55	268	264	253	249	244	245	244	240	240	251	240	240	244	245	244	249	253	264	268
60	185	182	173	172	172	171	168	166	169	173	169	166	168	171	172	172	173	182	185
65	122	122	117	115	113	115	112	114	113	119	113	114	112	115	113	115	117	122	122
70	77.2	74.0	70.1	71.8	70.5	70.9	72.4	72.6	72.7	74.6	72.7	72.6	72.4	70.9	70.5	71.8	70.1	74.0	77.2
75	44.0	42.4	41.4	41.2	41.0	42.0	42.0	43.5	44.5	46.5	44.5	43.5	42.0	42.0	41.0	41.2	41.4	42.4	44.0
80	23.3	22.8	22.5	22.7	23.2	23.1	23.3	24.1	24.5	26.0	24.5	24.1	23.3	23.1	23.2	22.7	22.5	22.8	23.3
85	13.1	12.7	12.9	12.9	13.1	13.0	13.2	13.1	13.3	14.1	13.3	13.1	13.2	13.0	13.1	12.9	12.9	12.7	13.1
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.136A P:240.1W PF:0.9793 Freq:49.99Hz Lamp Flux:35254.2x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
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	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577		
5	1614	1579	1587	1597	1587	1604	1606	1603	1603	1603	1606	1604	1587	1597	1587	1579	1614		
10	1646	1669	1660	1673	1674	1650	1666	1660	1672	1660	1666	1650	1674	1673	1660	1669	1646		
15	1758	1770	1787	1789	1788	1773	1775	1775	1773	1775	1775	1773	1788	1789	1787	1770	1758		
20	1832	1857	1839	1874	1842	1865	1816	1857	1848	1857	1816	1865	1842	1874	1839	1857	1832		
25	1884	1862	1852	1849	1856	1823	1847	1841	1863	1841	1847	1823	1856	1849	1852	1862	1884		
30	1759	1762	1742	1748	1721	1709	1717	1712	1746	1712	1717	1709	1721	1748	1742	1762	1759		
35	1527	1533	1504	1506	1504	1478	1480	1448	1476	1448	1480	1478	1504	1506	1504	1533	1527		
40	1243	1231	1209	1232	1202	1180	1196	1202	1195	1202	1196	1180	1202	1232	1209	1231	1243		
45	935	912	915	895	893	879	883	883	924	883	883	879	893	895	915	912	935		
50	500	489	477	460	464	452	460	455	489	455	460	452	464	460	477	489	500		
55	264	253	249	244	245	244	240	240	251	240	240	244	245	244	249	253	264		
60	182	173	172	172	171	168	166	169	173	169	166	168	171	172	172	173	182		
65	122	117	115	113	115	112	114	113	119	113	114	112	115	113	115	117	122		
70	74.0	70.1	71.8	70.5	70.9	72.4	72.6	72.7	74.6	72.7	72.6	72.4	70.9	70.5	71.8	70.1	74.0		
75	42.4	41.4	41.2	41.0	42.0	42.0	43.5	44.5	46.5	44.5	43.5	42.0	42.0	41.0	41.2	41.4	42.4		
80	22.8	22.5	22.7	23.2	23.1	23.3	24.1	24.5	26.0	24.5	24.1	23.3	23.1	23.2	22.7	22.5	22.8		
85	12.7	12.9	12.9	13.1	13.0	13.2	13.1	13.3	14.1	13.3	13.1	13.2	13.0	13.1	12.9	12.9	12.7		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-01-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks: