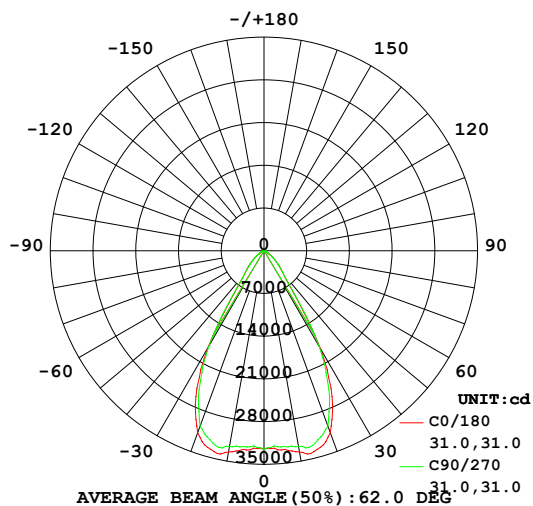


LUMINAIRE PHOTOMETRIC TEST REPORT

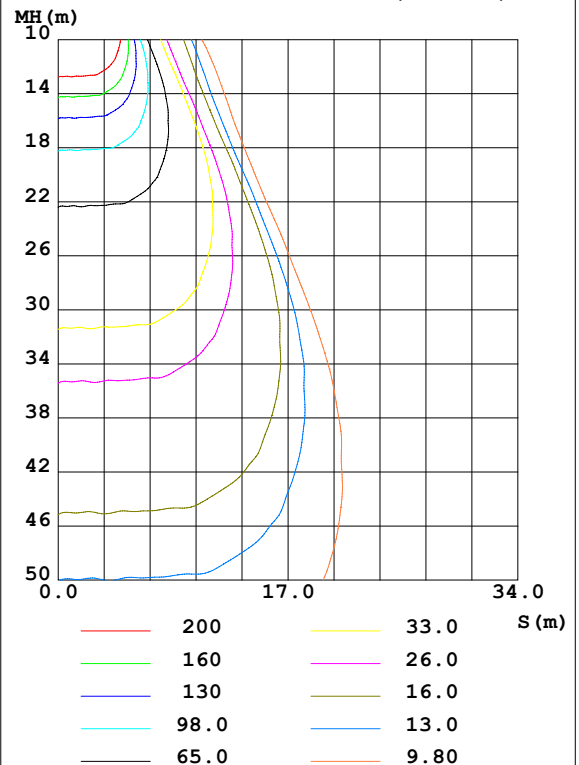
Test:U:220.0V I:1.136A P:240.1W PF:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.33 lm/W			
MODEL	5050	I _{max} (cd)	34108	S/MH (C0/180)	0.89
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	0.90
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	35134	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	35134.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.90

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	3348	3331	3257	3331	3348	3331	3257	3331	0- 10	3132	3132	8.92,8.92
20	3179	3192	3064	3192	3179	3192	3064	3192	10- 20	9354	12487	35.5,35.5
30	1848	1840	1810	1840	1848	1840	1810	1840	20- 30	11730	24217	68.9,68.9
40	497.5	499.4	490.1	499.4	497.5	499.4	490.1	499.4	30- 40	6017	30234	86.1,86.1
50	230.3	238.6	231.3	238.6	230.3	238.6	231.3	238.6	40- 50	2731	32965	93.8,93.8
60	73.06	78.05	82.98	78.05	73.06	78.05	82.98	78.05	50- 60	1261	34227	97.4,97.4
70	38.72	37.95	38.21	37.95	38.72	37.95	38.21	37.95	60- 70	525.1	34752	98.9,98.9
80	16.77	16.41	16.66	16.41	16.77	16.41	16.66	16.41	70- 80	283.8	35036	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	98.94	35134	100,100
100	0	0	0	0	0	0	0	0	90-100	0	35134	100,100
110	0	0	0	0	0	0	0	0	100-110	0	35134	100,100
120	0	0	0	0	0	0	0	0	110-120	0	35134	100,100
130	0	0	0	0	0	0	0	0	120-130	0	35134	100,100
140	0	0	0	0	0	0	0	0	130-140	0	35134	100,100
150	0	0	0	0	0	0	0	0	140-150	0	35134	100,100
160	0	0	0	0	0	0	0	0	150-160	0	35134	100,100
170	0	0	0	0	0	0	0	0	160-170	0	35134	100,100
180	0	0	0	0	0	0	0	0	170-180	0	35134	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 31787 lm

%lum = 90.5%

%lamp = 90.5%

Conical surface Flux(120deg): 34227 lm

%lum = 97.4%

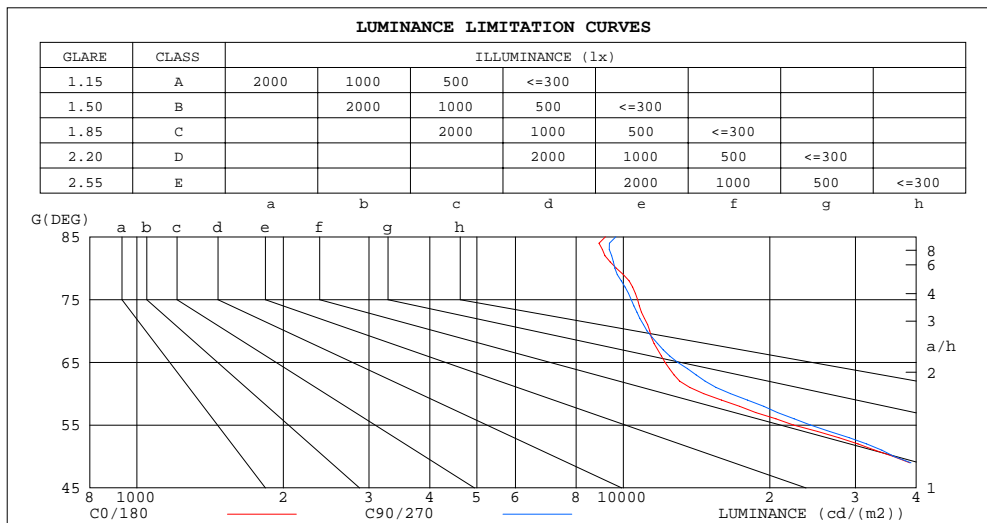
%lamp = 97.4%

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:

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:1.136A P:240.1W PF:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-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	9190	9654
80	9671	9603
75	10702	10380
70	11336	11184
65	12182	12930
60	14630	16614
55	22382	24256
50	35878	36028
45	49378	48942

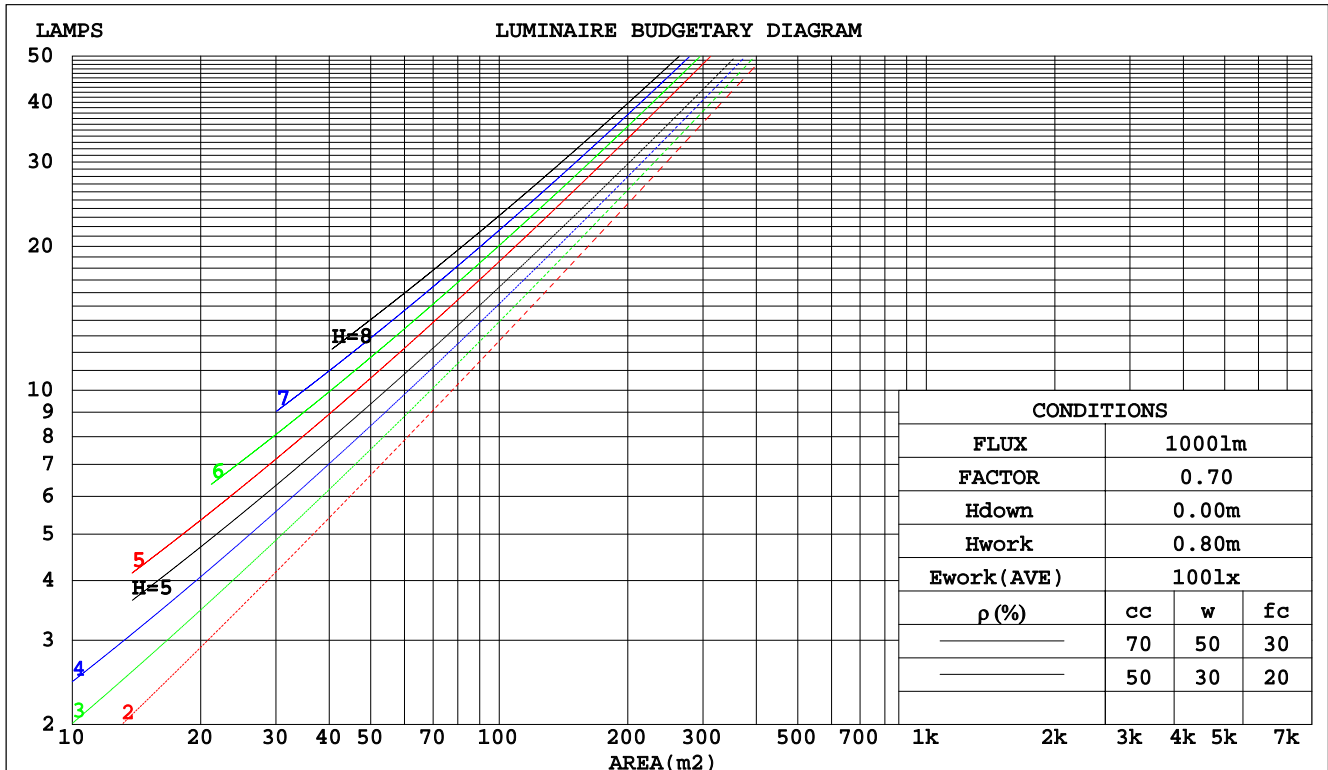
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-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	1.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.97	.94	.00	.96	.93	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6.0	.76	.70	.66	.76	.70	.65	.74	.69	.65	.73	.68	.64	.71	.67	.64	.62
7.0	.72	.65	.61	.71	.65	.61	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8.0	.67	.61	.57	.67	.61	.57	.66	.60	.56	.65	.60	.56	.64	.59	.56	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.52	.51
10.0	.60	.54	.50	.59	.54	.50	.59	.53	.50	.58	.53	.49	.57	.53	.49	.48



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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-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	.193	.110	.035	.186	.106	.034	.173	.099	.032	.162	.093	.030	.151	.088	.028	
2.0	.184	.101	.031	.178	.098	.030	.168	.093	.029	.158	.089	.028	.149	.084	.027	
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.026	.152	.083	.026	.144	.080	.025	
4.0	.166	.086	.025	.161	.085	.025	.154	.081	.024	.146	.078	.024	.139	.076	.023	
5.0	.157	.080	.023	.154	.079	.023	.147	.076	.022	.140	.074	.022	.134	.072	.022	
6.0	.150	.075	.021	.146	.074	.021	.140	.072	.021	.134	.070	.021	.129	.068	.020	
7.0	.142	.070	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.124	.065	.019	
8.0	.136	.066	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	.120	.061	.018	
9.0	.130	.063	.018	.127	.062	.017	.123	.061	.017	.119	.060	.017	.115	.058	.017	
10.0	.124	.060	.017	.122	.059	.016	.118	.058	.016	.114	.057	.016	.111	.056	.016	

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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.080	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.062	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.034	.017	.034	.020	.010	.011	.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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm												
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG				
SPEC.:AOK-240WoH-5050-60D-PC-ALL					DIM.: ϕ 0.4*0.141M			SERIAL No.:1				
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	2H	9.1	10.1	9.3	10.3	10.4	9.1	10.1	9.3	10.2	10.4	
	3H	9.2	10.1	9.4	10.3	10.5	9.1	10.1	9.4	10.3	10.5	
	4H	9.2	10.1	9.5	10.4	10.6	9.2	10.1	9.5	10.3	10.5	
	6H	9.3	10.1	9.6	10.4	10.6	9.2	10.1	9.5	10.3	10.6	
	8H	9.3	10.1	9.6	10.4	10.6	9.2	10.0	9.6	10.3	10.6	
	12H	9.3	10.1	9.6	10.3	10.6	9.2	10.0	9.6	10.3	10.6	
	4H	2H	9.0	9.9	9.3	10.1	10.3	9.0	9.9	9.3	10.1	10.3
	3H	9.2	10.0	9.5	10.2	10.5	9.2	9.9	9.5	10.2	10.5	
	4H	9.3	10.0	9.7	10.3	10.6	9.3	10.0	9.6	10.3	10.6	
	6H	9.5	10.1	9.8	10.4	10.8	9.4	10.0	9.8	10.3	10.7	
	8H	9.5	10.1	9.9	10.4	10.8	9.4	10.0	9.8	10.3	10.7	
	12H	9.5	10.0	9.9	10.4	10.8	9.4	10.0	9.9	10.3	10.7	
8H	4H	9.3	9.9	9.7	10.2	10.6	9.3	9.8	9.7	10.2	10.5	
6H	9.5	10.0	9.9	10.4	10.8	9.4	9.9	9.9	10.3	10.7		
8H	9.6	10.0	10.0	10.4	10.8	9.5	9.9	10.0	10.3	10.8		
12H	9.6	10.0	10.1	10.4	10.9	9.6	9.9	10.0	10.4	10.8		
12H	4H	9.3	9.8	9.7	10.2	10.6	9.2	9.7	9.6	10.1	10.5	
6H	9.5	9.9	9.9	10.3	10.8	9.4	9.8	9.9	10.2	10.7		
8H	9.6	9.9	10.1	10.4	10.8	9.5	9.9	10.0	10.3	10.8		
Variations with the observer position at spacings:												
S = 1.0H	+ 1.3 / - 2.0					+ 1.4 / - 1.9						
1.5H	+ 1.8 / - 1.7					+ 1.9 / - 1.7						
2.0H	+ 2.9 / - 2.2					+ 2.7 / - 2.3						

CIE Pub.117, 35134 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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

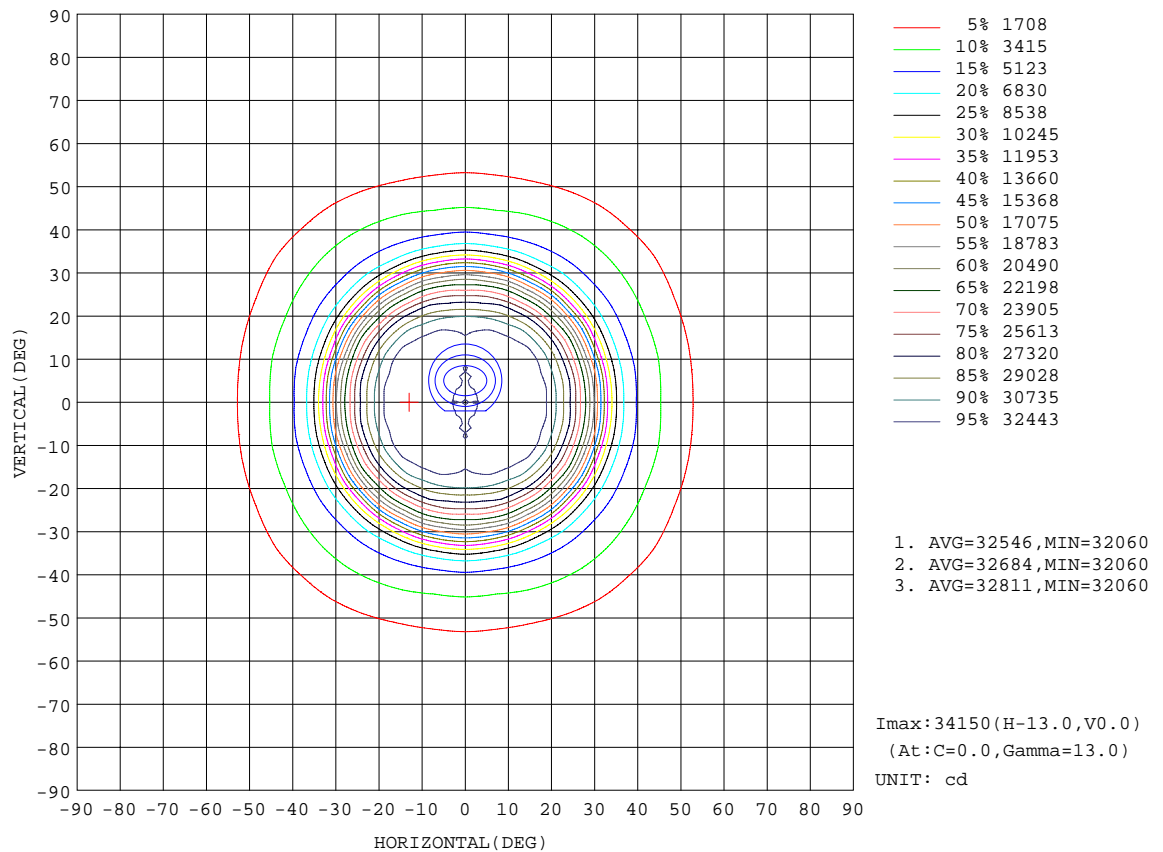
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	85	93	89	85	80
1.25	101	95	91	99	94	90	97	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
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:2018-01-05

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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

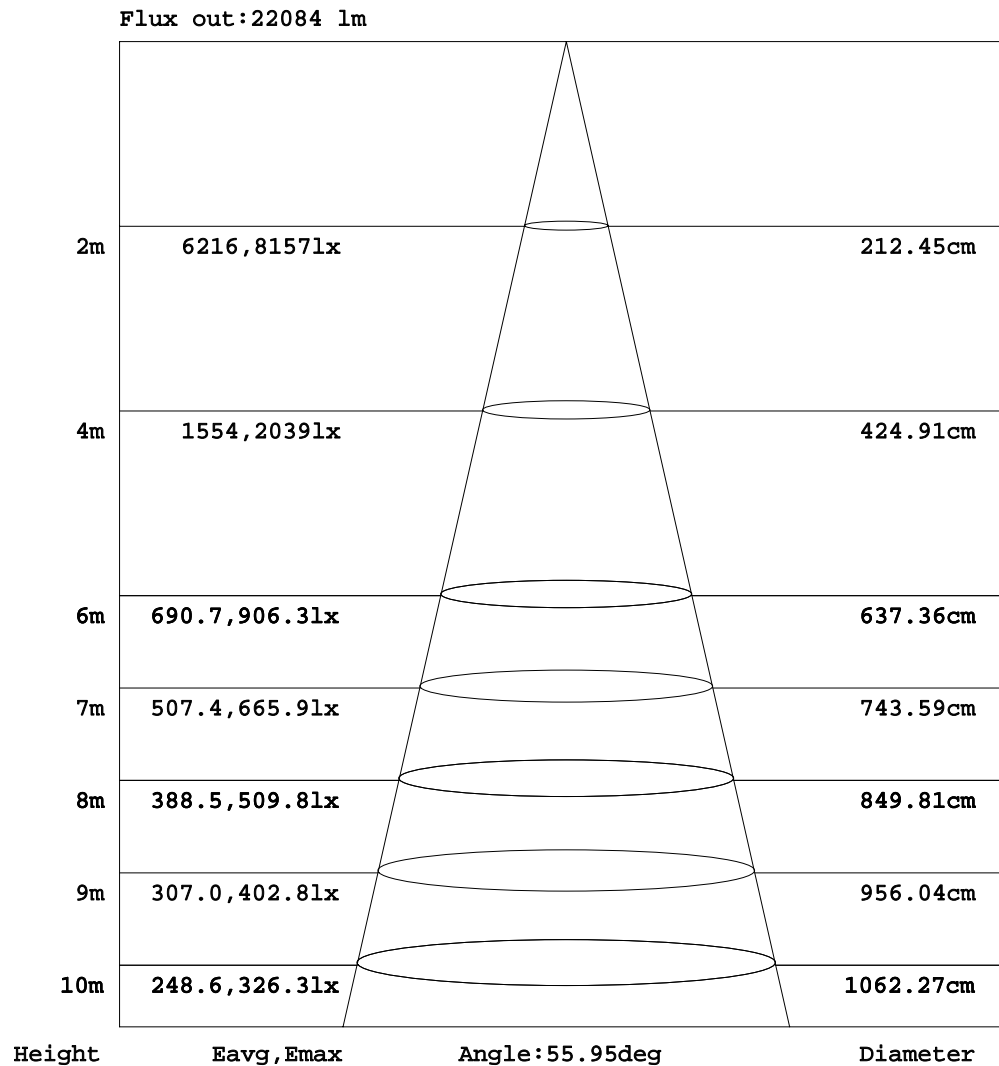


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-05

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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



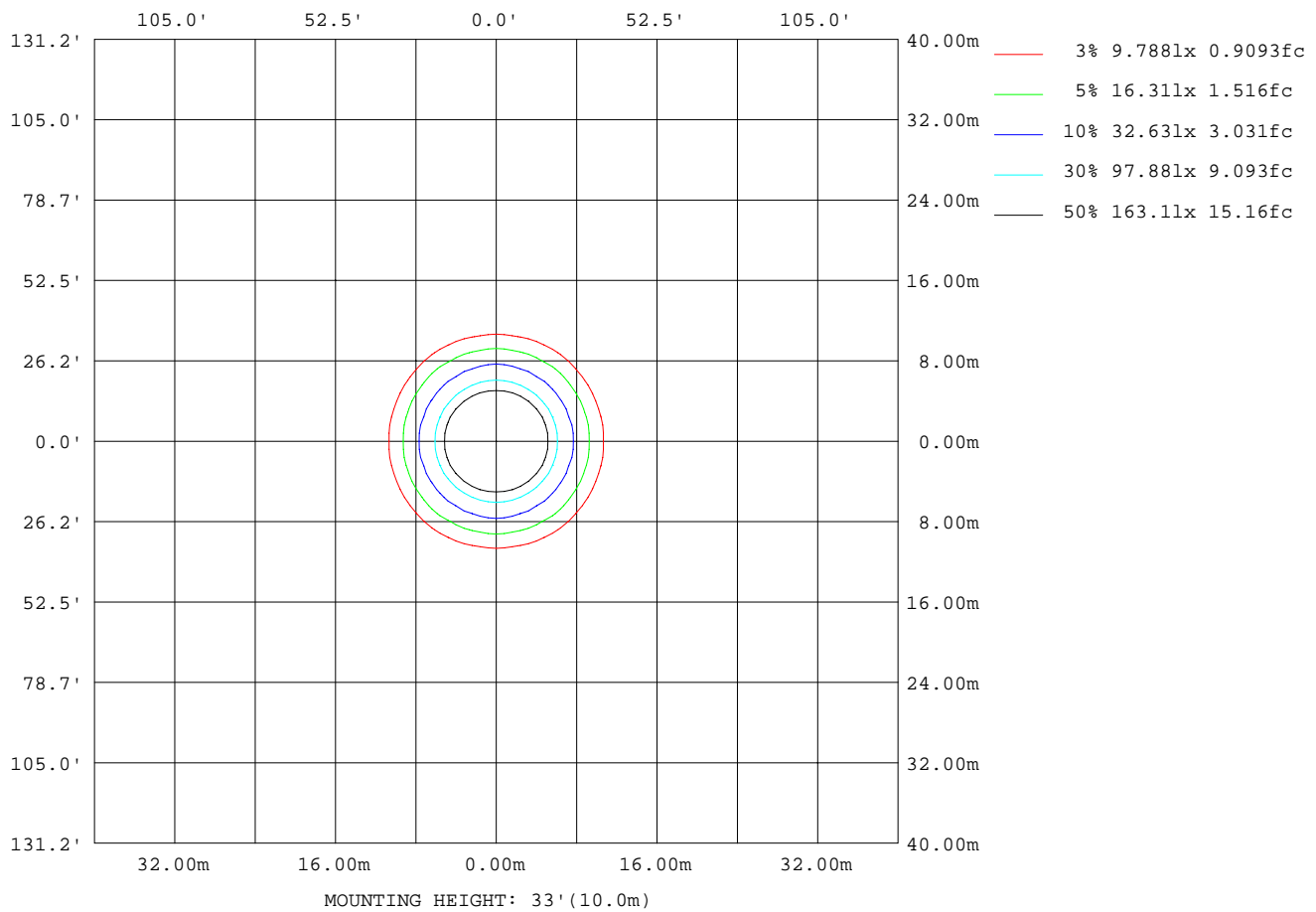
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

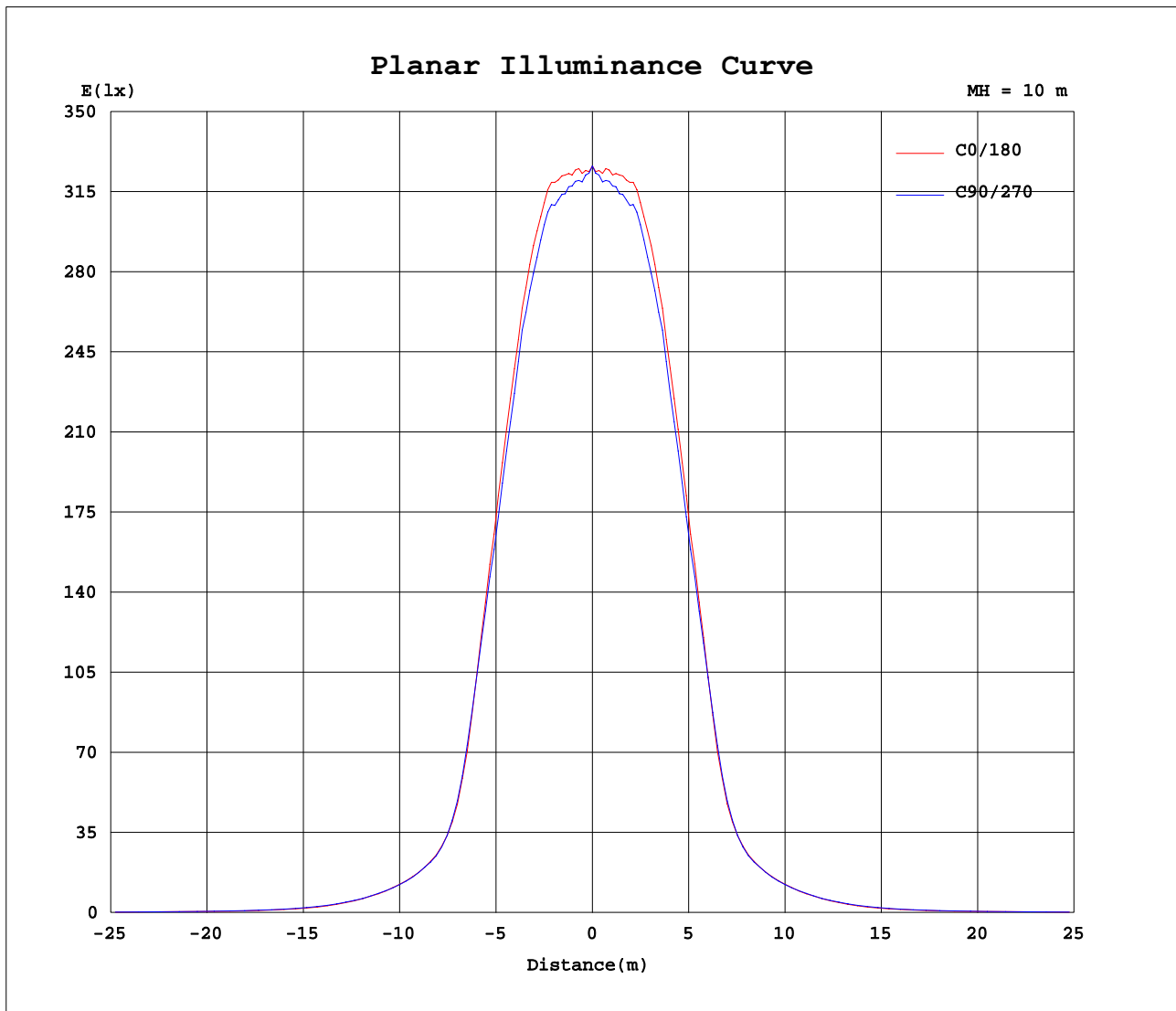
AvgL	cd/m2
L_0~180 (65) av	12167
L_0~180 (75) av	10688
L_0~180 (85) av	9179
L_90~270 (65) av	12915
L_90~270 (75) av	10369
L_90~270 (85) av	9643
L_45 (65) av	12085
L_45 (75) av	10337
L_45 (85) av	9178

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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-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	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259
5	3278	3286	3282	3273	3283	3257	3262	3263	3249	3229	3249	3263	3262	3257	3283	3273	3282	3286	3278
10	3348	3341	3362	3346	3338	3324	3310	3285	3279	3257	3279	3285	3310	3324	3338	3346	3362	3341	3348
15	3371	3364	3357	3354	3357	3350	3325	3325	3299	3258	3299	3325	3325	3350	3357	3354	3357	3364	3371
20	3179	3190	3181	3196	3209	3175	3120	3095	3074	3064	3074	3095	3120	3175	3209	3196	3181	3190	3179
25	2638	2687	2665	2682	2660	2642	2602	2565	2558	2519	2558	2565	2602	2642	2660	2682	2665	2687	2638
30	1848	1865	1840	1850	1849	1831	1795	1815	1788	1810	1788	1815	1795	1831	1849	1850	1840	1865	1848
35	861	875	865	869	859	864	847	865	862	887	862	865	847	864	859	869	865	875	861
40	497	510	501	504	498	501	499	486	480	490	480	486	499	501	498	504	501	510	497
45	349	358	348	353	359	361	358	350	340	346	340	350	358	361	359	353	348	358	349
50	230	232	231	237	238	240	231	232	227	231	227	232	231	240	238	237	231	232	230
55	128	130	132	136	136	138	137	136	135	139	135	136	137	138	136	136	132	130	128
60	73.1	75.0	74.4	79.7	78.6	77.5	75.2	77.3	77.3	83.0	77.3	77.3	75.2	77.5	78.6	79.7	74.4	75.0	73.1
65	51.4	50.3	50.2	50.6	50.9	51.2	51.1	51.9	51.0	54.6	51.0	51.9	51.1	51.2	50.9	50.6	50.2	50.3	51.4
70	38.7	38.3	37.9	38.0	37.8	38.1	37.3	37.0	36.7	38.2	36.7	37.0	37.3	38.1	37.8	38.0	37.9	38.3	38.7
75	27.7	27.9	27.4	27.4	26.9	26.6	26.2	26.1	25.9	26.8	25.9	26.1	26.2	26.6	26.9	27.4	27.4	27.9	27.7
80	16.8	17.0	16.7	16.7	16.5	16.4	16.1	16.1	16.1	16.7	16.1	16.1	16.1	16.4	16.5	16.7	16.7	17.0	16.8
85	8.00	8.14	8.00	8.15	7.95	8.06	7.95	8.10	8.04	8.40	8.04	8.10	7.95	8.06	7.95	8.15	8.00	8.14	8.00
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:0.9792 Freq:49.99Hz Lamp Flux:35134.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-5050-60D-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	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259	3259		
5	3286	3282	3273	3283	3257	3262	3263	3249	3229	3249	3263	3262	3257	3283	3273	3282	3286		
10	3341	3362	3346	3338	3324	3310	3285	3279	3257	3279	3285	3310	3324	3338	3346	3362	3341		
15	3364	3357	3354	3357	3350	3325	3325	3299	3258	3299	3325	3325	3350	3357	3354	3357	3364		
20	3190	3181	3196	3209	3175	3120	3095	3074	3064	3074	3095	3120	3175	3209	3196	3181	3190		
25	2687	2665	2682	2660	2642	2602	2565	2558	2519	2558	2565	2602	2642	2660	2682	2665	2687		
30	1865	1840	1850	1849	1831	1795	1815	1788	1810	1788	1815	1795	1831	1849	1850	1840	1865		
35	875	865	869	859	864	847	865	862	887	862	865	847	864	859	869	865	875		
40	510	501	504	498	501	499	486	480	490	480	486	499	501	498	504	501	510		
45	358	348	353	359	361	358	350	340	346	340	350	358	361	359	353	348	358		
50	232	231	237	238	240	231	232	227	231	227	232	231	240	238	237	231	232		
55	130	132	136	136	138	137	136	135	139	135	136	137	138	136	136	132	130		
60	75.0	74.4	79.7	78.6	77.5	75.2	77.3	77.3	83.0	77.3	77.3	75.2	77.5	78.6	79.7	74.4	75.0		
65	50.3	50.2	50.6	50.9	51.2	51.1	51.9	51.0	54.6	51.0	51.9	51.1	51.2	50.9	50.6	50.2	50.3		
70	38.3	37.9	38.0	37.8	38.1	37.3	37.0	36.7	38.2	36.7	37.0	37.3	38.1	37.8	38.0	37.9	38.3		
75	27.9	27.4	27.4	26.9	26.6	26.2	26.1	25.9	26.8	25.9	26.1	26.2	26.6	26.9	27.4	27.4	27.9		
80	17.0	16.7	16.7	16.5	16.4	16.1	16.1	16.1	16.7	16.1	16.1	16.1	16.4	16.5	16.7	16.7	17.0		
85	8.14	8.00	8.15	7.95	8.06	7.95	8.10	8.04	8.40	8.04	8.10	7.95	8.06	7.95	8.15	8.00	8.14		
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: