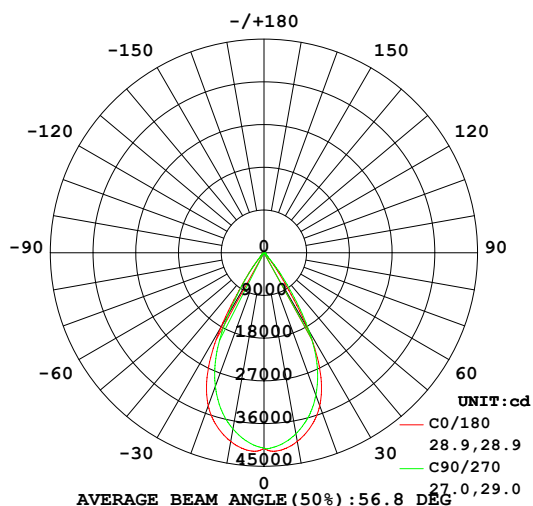


LUMINAIRE PHOTOMETRIC TEST REPORT

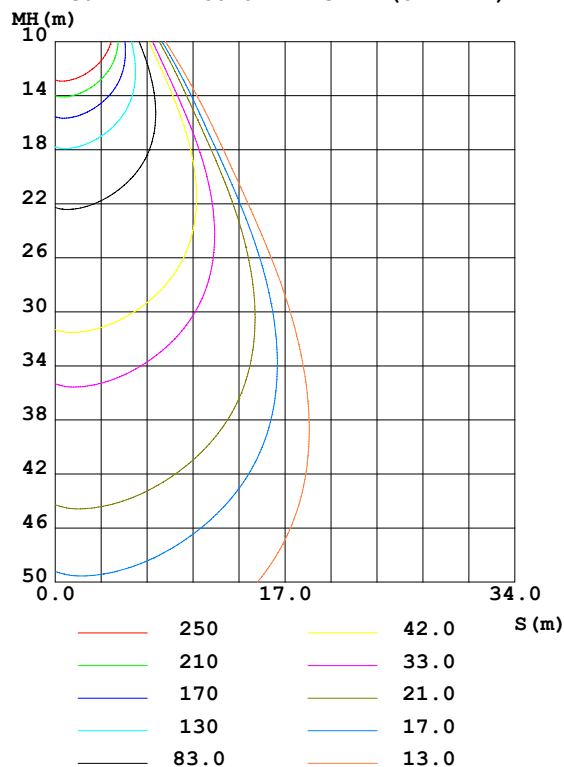
Test:U:220.0V I:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:6.0KG	
SPEC.:AOK-240WoH		DIM.: $\phi 0.4 \times 0.141M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.29M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.13 lm/W			
MODEL	3030	I _{max} (cd)	42393	S/MH (C0/180)	0.85
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	0.81
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	32209	η UP, DN (C0-180)	0.0, 52.1
NOMINAL FLUX (lm)	32208.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 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	4037	3938	3874	3938	4037	3847	3770	3847	0- 10	3849	3849	12,12
20	3432	3237	3196	3237	3432	3077	2997	3077	10- 20	10085	13934	43.3,43.3
30	1831	1767	1896	1767	1831	1481	1524	1481	20- 30	11486	25420	78.9,78.9
40	217.3	272.5	366.7	272.5	217.3	186.6	219.6	186.6	30- 40	4945	30365	94.3,94.3
50	63.54	66.06	71.17	66.06	63.54	62.82	64.43	62.82	40- 50	820.8	31185	96.8,96.8
60	44.13	45.81	46.91	45.81	44.13	42.56	42.23	42.56	50- 60	489.0	31674	98.3,98.3
70	25.81	26.66	27.51	26.66	25.81	24.10	24.02	24.10	60- 70	338.8	32013	99.4,99.4
80	7.924	8.630	10.33	8.630	7.924	5.930	6.733	5.930	70- 80	174.9	32188	99.9,99.9
90	0	0.0708	0.0985	0.0708	0.0000	0.0000	0	0.0000	80- 90	20.68	32209	100,100
100	0	0	0	0	0	0	0	0	90-100	0.0158	32209	100,100
110	0	0	0	0	0	0	0	0	100-110	0	32209	100,100
120	0	0	0	0	0	0	0	0	110-120	0	32209	100,100
130	0	0	0	0	0	0	0	0	120-130	0	32209	100,100
140	0	0	0	0	0	0	0	0	130-140	0	32209	100,100
150	0	0	0	0	0	0	0	0	140-150	0	32209	100,100
160	0	0	0	0	0	0	0	0	150-160	0	32209	100,100
170	0	0	0	0	0	0	0	0	160-170	0	32209	100,100
180	0	0	0	0	0	0	0	0	170-180	0	32209	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 30885 lm

%lum = 95.9%

%lamp = 95.9%

Conical surface Flux(120deg): 31674 lm

%lum = 98.3%

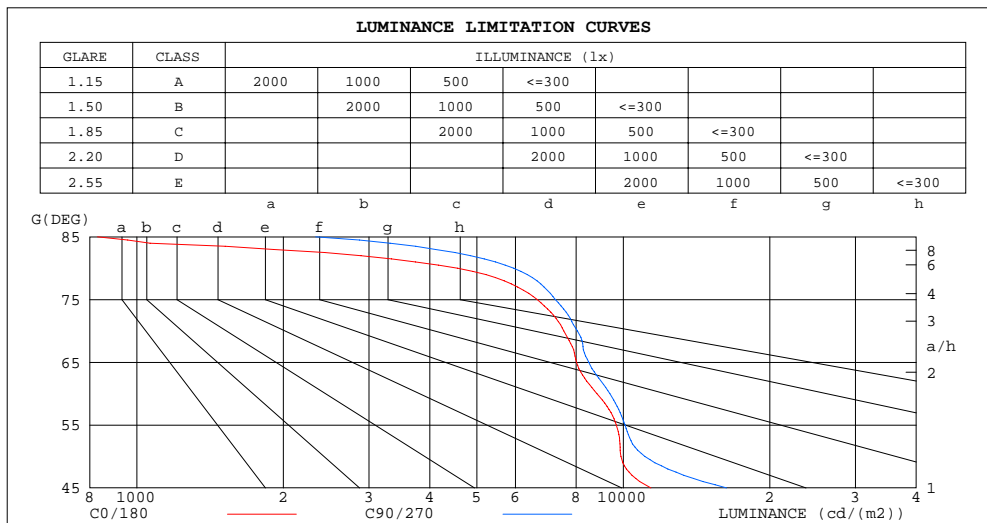
%lamp = 98.3%

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ 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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh	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	830	2331
80	4563	5951
75	6651	7249
70	7547	8044
65	8010	8494
60	8826	9382
55	9671	10082
50	9885	11073
45	11397	16302

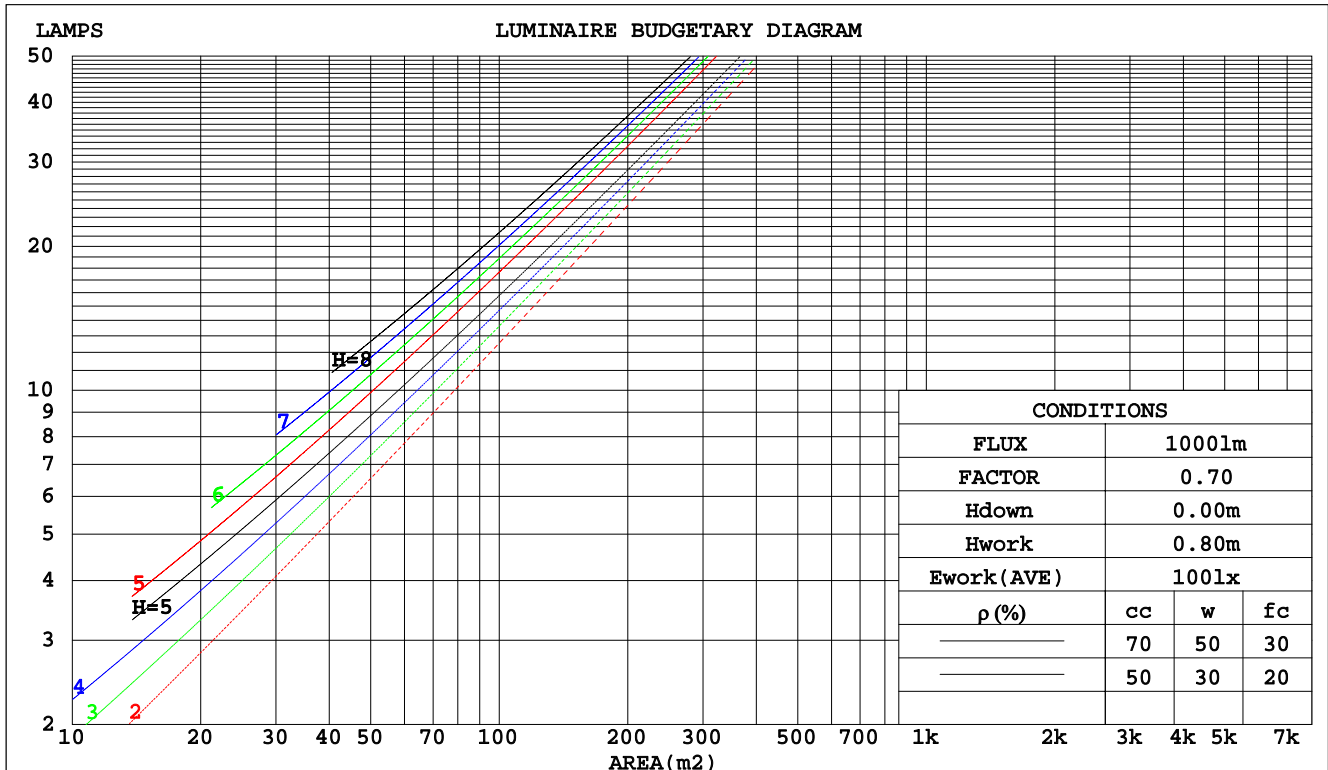
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	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	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.96	.93	.96	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.85	.80	.76	.84	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72
6.0	.81	.75	.71	.80	.74	.70	.78	.74	.70	.77	.73	.69	.76	.72	.69	.68
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.64
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
9.0	.68	.63	.59	.68	.62	.59	.67	.62	.59	.66	.62	.58	.65	.61	.58	.57
10.0	.65	.59	.56	.64	.59	.56	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	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	.176	.100	.032	.169	.096	.031	.156	.090	.029	.145	.084	.027	.134	.078	.025		
2.0	.167	.092	.028	.162	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024		
3.0	.158	.084	.025	.154	.082	.025	.145	.078	.024	.136	.075	.023	.129	.071	.022		
4.0	.150	.078	.023	.146	.077	.023	.138	.073	.022	.131	.070	.021	.125	.068	.021		
5.0	.143	.073	.021	.139	.072	.021	.133	.069	.020	.126	.067	.020	.120	.064	.019		
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.122	.063	.019	.116	.061	.018		
7.0	.130	.064	.018	.127	.063	.018	.122	.062	.018	.117	.060	.017	.112	.058	.017		
8.0	.124	.061	.017	.122	.060	.017	.117	.059	.017	.113	.057	.016	.109	.056	.016		
9.0	.119	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.105	.053	.015		
10.0	.114	.055	.015	.112	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.015		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm											
NAME: AOK-øH					TYPE:LED			WEIGHT:6.0KG			
SPEC.:AOK-240WoH					DIM.: ø0.4*0.141M			SERIAL No.:1			
MFR.: AOK					SUR.:ø0.29M			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	6.7	7.6	6.9	7.8	7.9	7.5	8.4	7.7	8.6	8.8
	3H	6.8	7.7	7.1	7.9	8.1	7.6	8.5	7.9	8.7	8.9
	4H	6.9	7.7	7.2	7.9	8.1	7.7	8.5	7.9	8.7	8.9
	6H	6.9	7.6	7.2	7.9	8.1	7.7	8.4	8.0	8.7	8.9
	8H	6.9	7.6	7.2	7.8	8.1	7.7	8.4	8.0	8.6	8.9
	12H	6.8	7.5	7.1	7.8	8.1	7.6	8.3	7.9	8.6	8.9
4H	2H	6.6	7.4	6.9	7.6	7.8	7.4	8.2	7.7	8.4	8.6
	3H	6.8	7.5	7.2	7.8	8.1	7.6	8.3	7.9	8.5	8.8
	4H	7.0	7.6	7.3	7.9	8.2	7.7	8.3	8.0	8.6	8.9
	6H	7.0	7.6	7.4	7.9	8.3	7.7	8.3	8.1	8.6	9.0
	8H	7.0	7.5	7.4	7.9	8.2	7.7	8.3	8.1	8.6	9.0
	12H	6.9	7.4	7.4	7.8	8.2	7.7	8.2	8.1	8.5	8.9
8H	4H	6.9	7.5	7.3	7.8	8.2	7.6	8.1	8.0	8.5	8.9
	6H	7.0	7.5	7.5	7.8	8.3	7.7	8.2	8.2	8.5	9.0
	8H	7.0	7.4	7.5	7.8	8.2	7.7	8.1	8.2	8.5	9.0
	12H	7.0	7.3	7.4	7.7	8.2	7.7	8.0	8.2	8.5	8.9
12H	4H	6.9	7.4	7.3	7.7	8.1	7.6	8.1	8.0	8.4	8.8
	6H	7.0	7.4	7.4	7.8	8.2	7.7	8.1	8.1	8.5	8.9
	8H	7.0	7.3	7.4	7.7	8.2	7.7	8.0	8.2	8.5	8.9
Variations with the observer position at spacings:											
S = 1.0H		+ 2.3 / - 2.1					+ 3.1 / - 2.9				
1.5H		+ 4.3 / - 2.0					+ 5.4 / - 2.7				
2.0H		+ 0.3 / - 0.4					+ 1.2 / - 0.5				

CIE Pub.117, 32209 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 12.1$)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

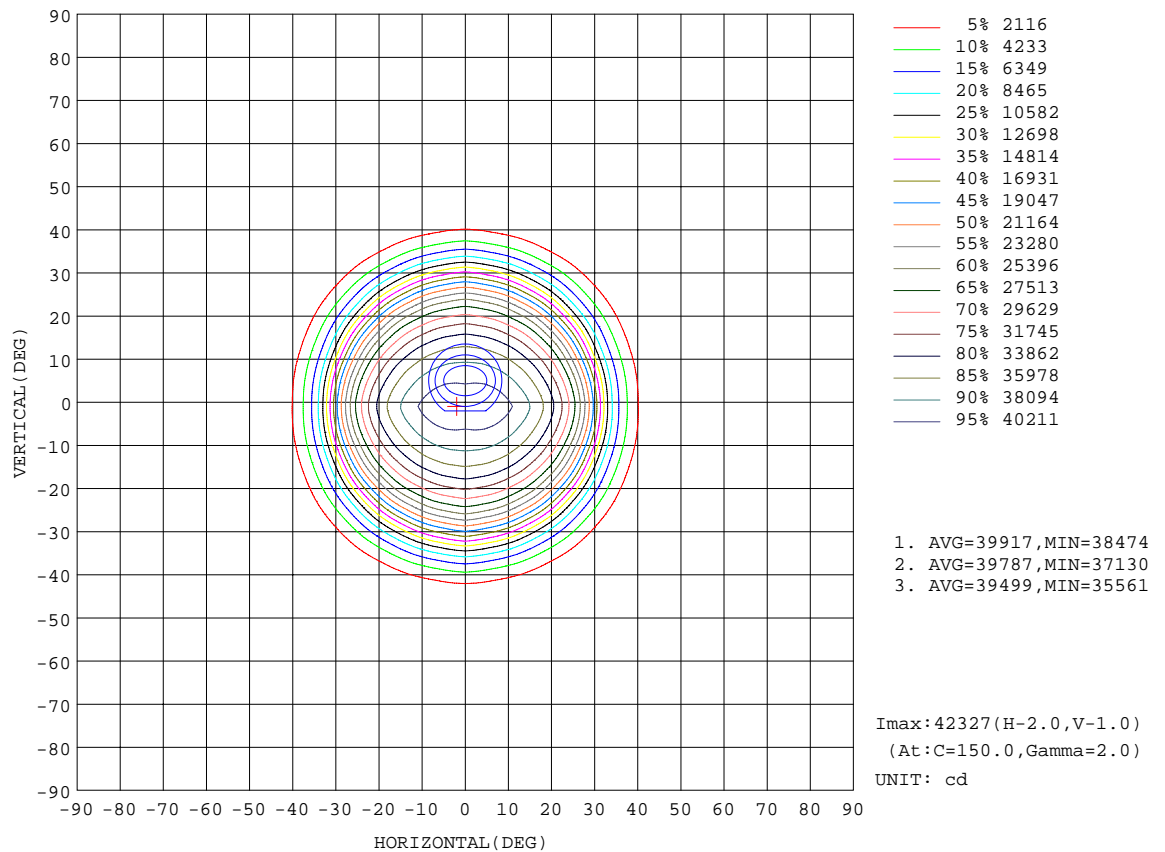
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	81	78	74
0.80	95	90	86	95	89	86	93	89	85	82
1.00	99	94	90	99	94	90	97	93	90	86
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	98	103	99	96	92
2.00	109	104	101	107	103	101	104	101	99	94
2.50	110	106	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



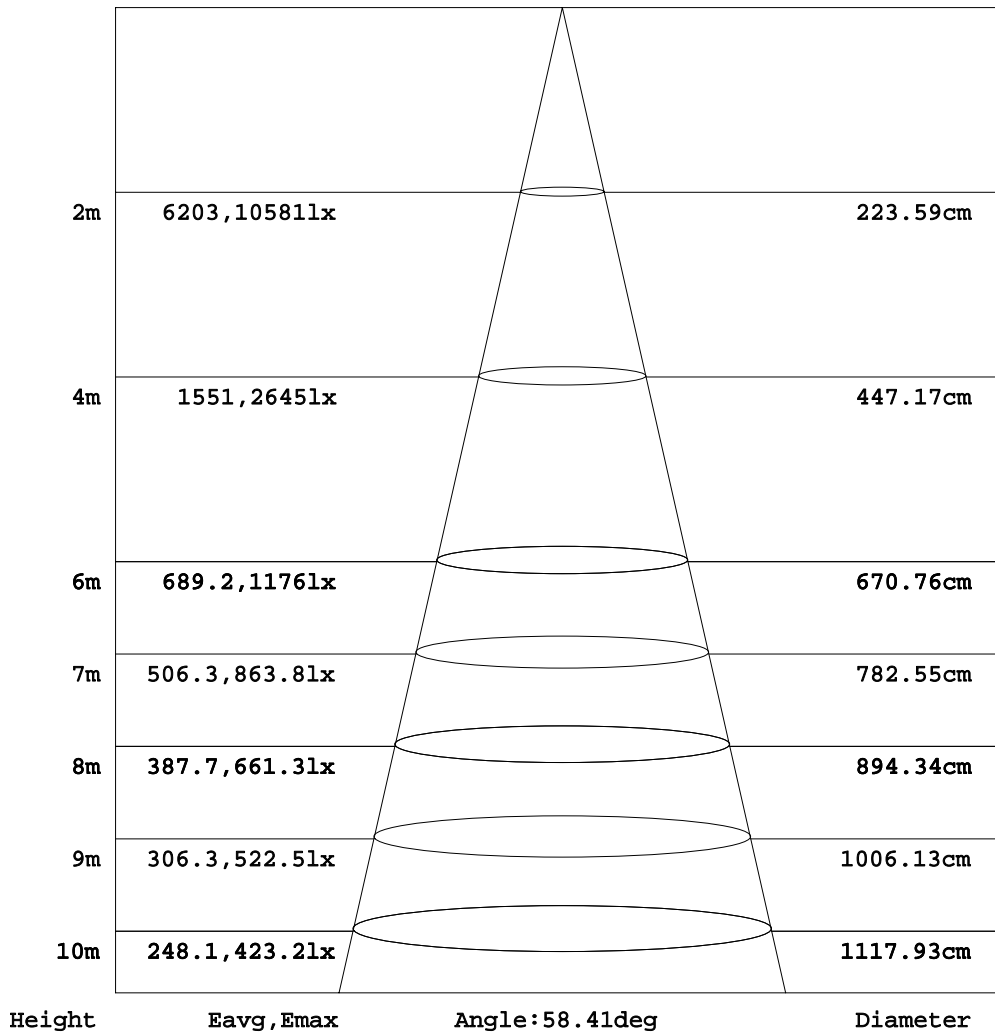
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Flux out:24950 lm



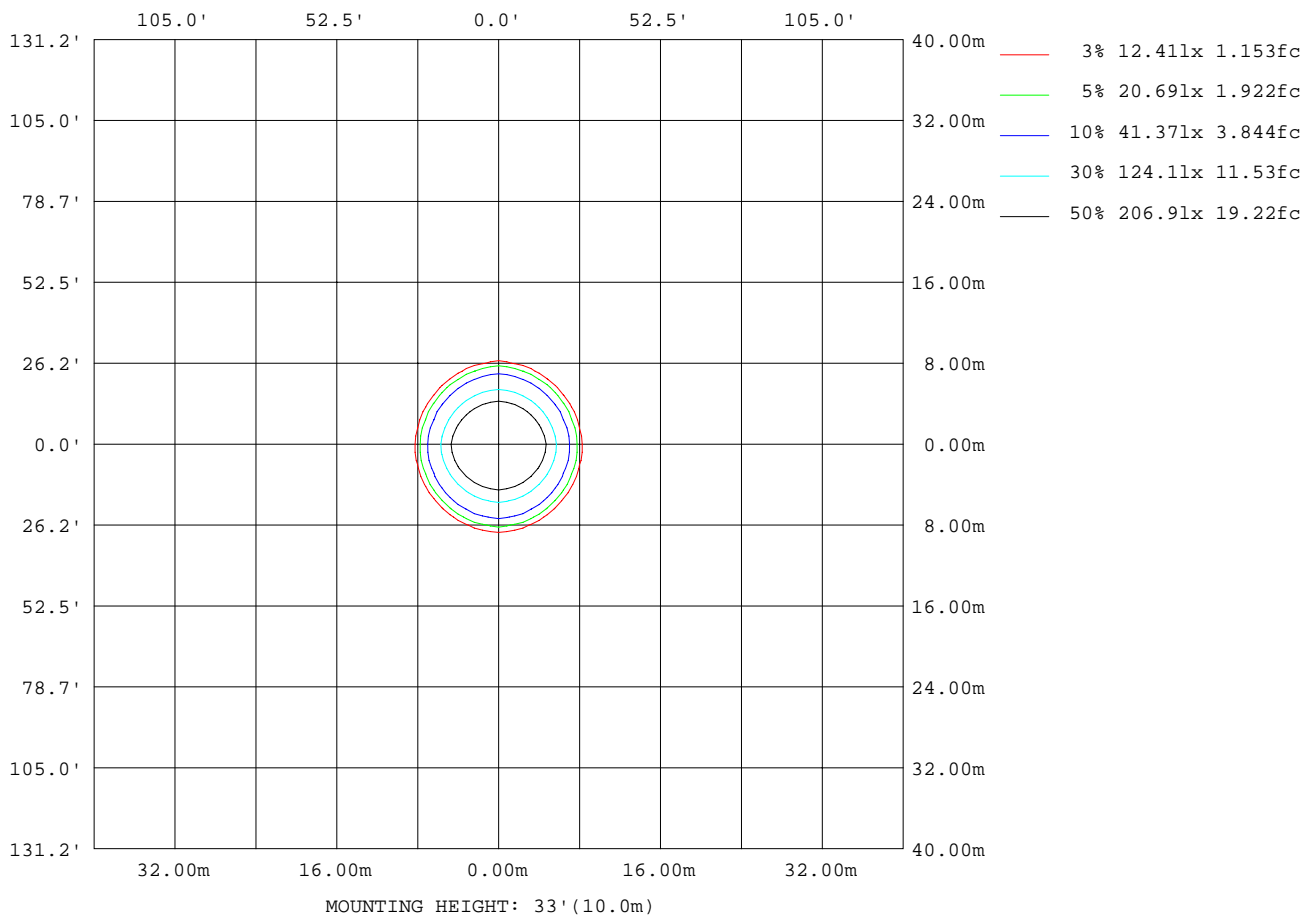
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

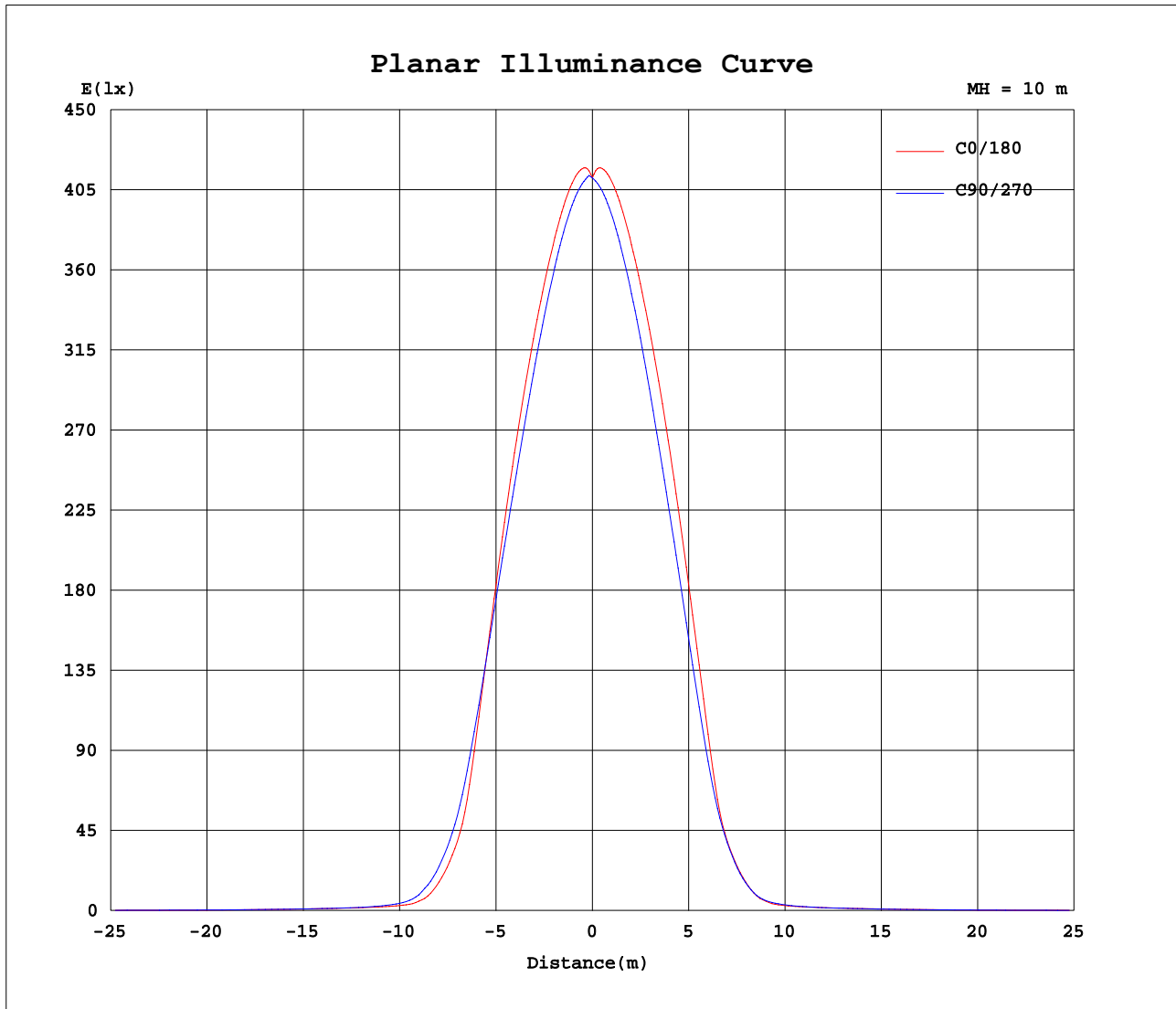
AvgL	cd/m2
L_0~180 (65) av	8010
L_0~180 (75) av	6651
L_0~180 (85) av	830
L_90~270 (65) av	8073
L_90~270 (75) av	6608
L_90~270 (85) av	1553
L_45 (65) av	8068
L_45 (75) av	6323
L_45 (85) av	820

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	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	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117
5	4172	4189	4201	4198	4187	4173	4159	4147	4136	4125	4114	4104	4095	4086	4078	4072	4066	4061	4058
10	4037	4056	4048	4032	4014	3997	3982	3968	3953	3938	3928	3918	3906	3897	3890	3883	3876	3874	3874
15	3799	3813	3796	3774	3748	3725	3707	3688	3667	3651	3639	3626	3612	3603	3598	3592	3585	3587	3592
20	3432	3440	3416	3387	3355	3327	3305	3280	3255	3237	3224	3209	3194	3188	3187	3182	3176	3184	3196
25	2821	2826	2803	2773	2739	2715	2697	2673	2648	2636	2632	2622	2609	2612	2619	2619	2619	2637	2660
30	1831	1839	1833	1812	1787	1779	1780	1772	1760	1767	1780	1781	1779	1796	1817	1825	1831	1862	1896
35	708	724	736	742	744	759	778	786	792	811	833	845	853	875	899	911	921	948	971
40	217	228	236	237	238	246	257	260	261	273	286	291	293	310	327	331	335	353	367
45	80.6	81.8	82.9	83.7	84.8	87.0	89.4	91.1	92.5	95.1	97.7	99.7	101	104	108	109	111	114	115
50	63.5	63.7	63.6	63.6	63.6	64.2	64.8	65.2	65.6	66.1	66.6	66.8	66.9	67.7	68.5	69.0	69.4	70.5	71.2
55	55.5	55.6	55.7	55.6	55.5	55.8	56.1	56.1	56.2	56.4	56.6	56.4	56.2	56.4	56.7	56.8	57.0	57.4	57.8
60	44.1	44.4	44.7	44.7	44.6	45.0	45.3	45.4	45.5	45.8	46.1	46.0	45.8	46.0	46.1	46.1	46.2	46.5	46.9
65	33.9	34.0	34.2	34.2	34.2	34.5	34.8	35.0	35.0	35.2	35.4	35.3	35.2	35.3	35.4	35.4	35.4	35.6	35.9
70	25.8	25.9	26.0	26.0	25.9	26.1	26.3	26.5	26.6	26.7	26.7	26.8	26.9	26.9	26.9	27.0	27.2	27.3	27.5
75	17.2	17.3	17.3	17.2	17.1	17.3	17.4	17.5	17.5	17.6	17.7	17.7	17.8	17.9	18.0	18.2	18.4	18.6	18.8
80	7.92	8.04	8.15	8.04	7.93	8.13	8.34	8.38	8.40	8.63	8.84	8.92	8.99	9.24	9.49	9.62	9.75	10.0	10.3
85	0.72	0.76	0.79	0.79	0.79	0.83	0.88	0.91	0.93	0.98	1.06	1.12	1.18	1.24	1.44	1.53	1.58	1.82	2.03
90	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10
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: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	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)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117
5	4061	4066	4072	4078	4086	4095	4104	4114	4125	4136	4147	4159	4173	4187	4198	4201	4189	4172	4155
10	3874	3876	3883	3890	3897	3906	3918	3928	3938	3953	3968	3982	3997	4014	4032	4048	4056	4037	4013
15	3587	3585	3592	3598	3603	3612	3626	3639	3651	3667	3688	3707	3725	3748	3774	3796	3813	3799	3767
20	3184	3176	3182	3187	3188	3194	3209	3224	3237	3255	3280	3305	3327	3355	3387	3416	3440	3432	3389
25	2637	2619	2619	2619	2612	2609	2622	2632	2636	2648	2673	2697	2715	2739	2773	2803	2826	2821	2768
30	1862	1831	1825	1817	1796	1779	1781	1780	1767	1760	1772	1780	1779	1787	1812	1833	1839	1831	1778
35	948	921	911	899	875	853	845	833	811	792	786	778	759	744	742	736	724	708	703
40	353	335	331	327	310	293	291	286	273	261	260	257	246	238	237	236	228	217	217
45	114	111	109	108	104	101	99.7	97.7	95.1	92.5	91.1	89.4	87.0	84.8	83.7	82.9	81.8	80.6	80.9
50	70.5	69.4	69.0	68.5	67.7	66.9	66.8	66.6	66.1	65.6	65.2	64.8	64.2	63.6	63.6	63.6	63.7	63.5	63.3
55	57.4	57.0	56.8	56.7	56.4	56.2	56.4	56.6	56.4	56.2	56.1	56.1	55.8	55.5	55.6	55.7	55.6	55.5	55.2
60	46.5	46.2	46.1	46.1	46.0	45.8	46.0	46.1	45.8	45.5	45.4	45.3	45.0	44.6	44.7	44.7	44.4	44.1	44.0
65	35.6	35.4	35.4	35.4	35.3	35.2	35.3	35.4	35.2	35.0	35.0	34.8	34.5	34.2	34.2	34.2	34.0	33.9	33.8
70	27.3	27.2	27.0	26.9	26.9	26.9	26.8	26.7	26.7	26.6	26.5	26.3	26.1	25.9	26.0	26.0	25.9	25.8	25.6
75	18.6	18.4	18.2	18.0	17.9	17.8	17.7	17.7	17.6	17.5	17.5	17.4	17.3	17.1	17.2	17.3	17.3	17.2	17.0
80	10.0	9.75	9.62	9.49	9.24	8.99	8.92	8.84	8.63	8.40	8.38	8.34	8.13	7.93	8.04	8.15	8.04	7.92	7.68
85	1.82	1.58	1.53	1.44	1.24	1.18	1.12	1.06	0.98	0.93	0.91	0.88	0.83	0.79	0.79	0.79	0.76	0.72	0.69
90	0.10	0.10	0.09	0.09	0.09	0.09	0.08	0.07	0.07	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01	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: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--3

UNIT: $\times 10cd$

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117
5	4140	4126	4112	4099	4086	4075	4064	4054	4043	4033	4025	4018	4011	4004	4000	3997	3995	3997	4000
10	3988	3964	3943	3922	3900	3879	3863	3847	3832	3816	3804	3796	3787	3778	3771	3771	3770	3771	3771
15	3732	3696	3666	3638	3608	3578	3553	3532	3512	3491	3474	3465	3456	3447	3439	3443	3447	3443	3439
20	3342	3293	3250	3212	3173	3133	3100	3077	3052	3027	3008	2999	2992	2983	2977	2987	2997	2987	2977
25	2713	2653	2600	2560	2518	2470	2433	2413	2393	2368	2350	2348	2348	2342	2340	2359	2379	2359	2340
30	1726	1662	1612	1583	1553	1516	1488	1481	1472	1455	1443	1454	1465	1463	1466	1495	1524	1495	1466
35	689	670	657	655	651	638	630	634	636	631	629	640	651	653	658	676	695	676	658
40	211	201	195	194	192	187	184	187	188	186	186	193	198	198	201	210	220	210	201
45	80.5	80.2	80.2	81.1	81.8	81.9	82.1	82.9	83.6	83.8	84.0	85.5	86.8	87.0	87.8	89.5	91.2	89.5	87.8
50	62.9	62.6	62.4	62.6	62.8	62.8	62.8	62.8	62.8	62.5	62.3	62.6	62.9	63.1	63.4	63.9	64.4	63.9	63.4
55	55.0	54.6	54.2	54.2	54.2	53.9	53.7	53.7	53.6	53.3	52.9	52.9	52.9	52.9	52.9	53.3	53.6	53.3	52.9
60	43.8	43.4	43.0	43.0	43.0	42.7	42.5	42.6	42.6	42.2	41.9	41.8	41.8	41.7	41.7	42.0	42.2	42.0	41.7
65	33.7	33.4	33.2	33.2	33.3	33.2	33.1	33.0	32.9	32.6	32.4	32.3	32.2	32.2	32.1	32.2	32.3	32.2	32.1
70	25.4	25.1	24.7	24.7	24.6	24.4	24.3	24.1	24.0	23.9	23.8	23.6	23.5	23.6	23.7	23.9	24.0	23.9	23.7
75	16.7	16.3	15.9	15.8	15.7	15.4	15.2	15.1	15.1	15.0	14.9	14.9	14.9	15.0	15.1	15.3	15.4	15.3	15.1
80	7.44	6.98	6.55	6.46	6.39	6.15	5.93	5.93	5.94	5.83	5.72	5.84	5.99	6.05	6.13	6.43	6.73	6.43	6.13
85	0.66	0.60	0.54	0.53	0.51	0.48	0.45	0.45	0.45	0.44	0.43	0.46	0.49	0.51	0.53	0.60	0.68	0.60	0.53
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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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:1.150A P:236.6W PF:0.9797 Freq:49.99Hz Lamp Flux:32208.7x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-240WoH									DIM.: ϕ 0.4*0.141M						SERIAL No.:1		
MFR.: AOK									SUR.: ϕ 0.29M						Shielding Angle:		

Table--4

UNIT: x10cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117	4117				
5	4004	4011	4018	4025	4033	4043	4054	4064	4075	4086	4099	4112	4126	4140	4155				
10	3778	3787	3796	3804	3816	3832	3847	3863	3879	3900	3922	3943	3964	3988	4013				
15	3447	3456	3465	3474	3491	3512	3532	3553	3578	3608	3638	3666	3696	3732	3767				
20	2983	2992	2999	3008	3027	3052	3077	3100	3133	3173	3212	3250	3293	3342	3389				
25	2342	2348	2348	2350	2368	2393	2413	2433	2470	2518	2560	2600	2653	2713	2768				
30	1463	1465	1454	1443	1455	1472	1481	1488	1516	1553	1583	1612	1662	1726	1778				
35	653	651	640	629	631	636	634	630	638	651	655	657	670	689	703				
40	198	198	193	186	186	188	187	184	187	192	194	195	201	211	217				
45	87.0	86.8	85.5	84.0	83.8	83.6	82.9	82.1	81.9	81.8	81.1	80.2	80.2	80.5	80.9				
50	63.1	62.9	62.6	62.3	62.5	62.8	62.8	62.8	62.8	62.8	62.6	62.4	62.6	62.9	63.3				
55	52.9	52.9	52.9	52.9	53.3	53.6	53.7	53.7	53.9	54.2	54.2	54.2	54.6	55.0	55.2				
60	41.7	41.8	41.8	41.9	42.2	42.6	42.6	42.5	42.7	43.0	43.0	43.0	43.4	43.8	44.0				
65	32.2	32.2	32.3	32.4	32.6	32.9	33.0	33.1	33.2	33.3	33.2	33.2	33.4	33.7	33.8				
70	23.6	23.5	23.6	23.8	23.9	24.0	24.1	24.3	24.4	24.6	24.7	24.7	25.1	25.4	25.6				
75	15.0	14.9	14.9	14.9	15.0	15.1	15.1	15.2	15.4	15.7	15.8	15.9	16.3	16.7	17.0				
80	6.05	5.99	5.84	5.72	5.83	5.94	5.93	5.93	6.15	6.39	6.46	6.55	6.98	7.44	7.68				
85	0.51	0.49	0.46	0.43	0.44	0.45	0.45	0.45	0.48	0.51	0.53	0.54	0.60	0.66	0.69				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				

C Range: 0 - 360DEG
C Interval: 5.0DEG
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Operators:
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