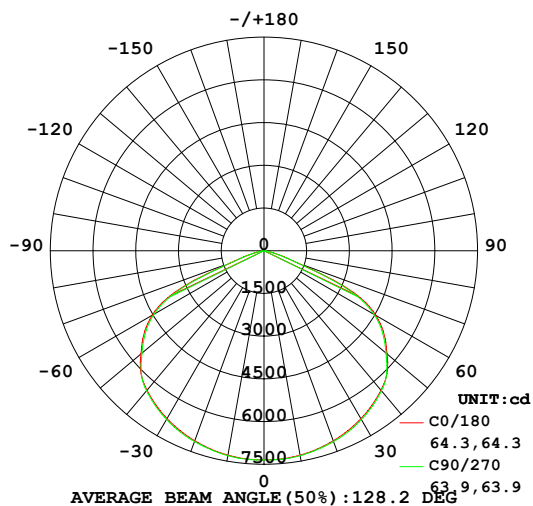


LUMINAIRE PHOTOMETRIC TEST REPORT

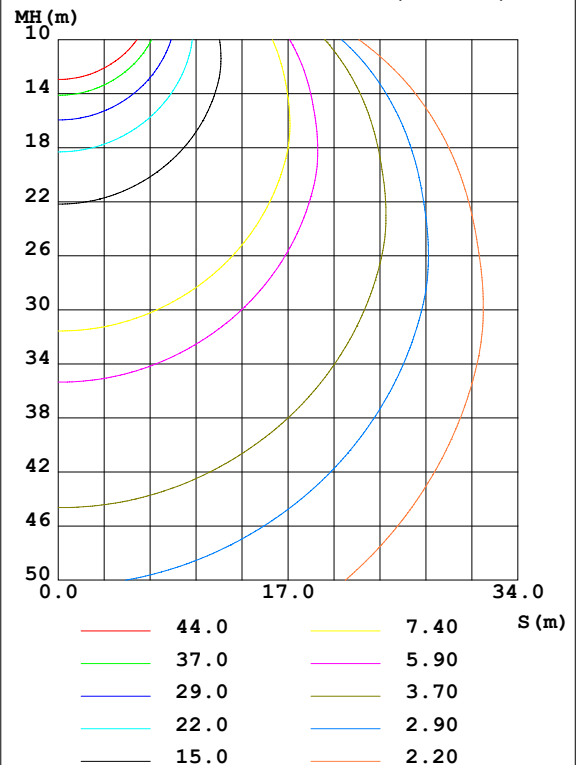
Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:4.6KG	
SPEC.:AOK-150WoH		DIM.: $\phi 0.318 \times 0.138\text{M}$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.24\text{M}$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.00 lm/W			
MODEL	5050	I _{max} (cd)	7350	S/MH (C0/180)	1.39
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.40
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	23104	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	23103.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.55

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: 2017-12-27

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=0.9852]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	7289	7311	7308	7311	7289	7311	7308	7311	0- 10	699.9	699.9	3.03,3.03
20	7103	7137	7129	7137	7103	7137	7129	7137	10- 20	2045	2745	11.9,11.9
30	6808	6854	6842	6854	6808	6854	6842	6854	20- 30	3236	5981	25.9,25.9
40	6389	6423	6415	6423	6389	6423	6415	6423	30- 40	4167	10148	43.9,43.9
50	5644	5661	5591	5661	5644	5661	5591	5661	40- 50	4705	14853	64.3,64.3
60	4535	4446	4452	4446	4535	4446	4452	4446	50- 60	4562	19415	84,84
70	1271	1185	1196	1185	1271	1185	1196	1185	60- 70	3079	22494	97.4,97.4
80	152.5	143.6	138.7	143.6	152.5	143.6	138.7	143.6	70- 80	577.3	23071	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	32.62	23104	100,100
100	0	0	0	0	0	0	0	0	90-100	0	23104	100,100
110	0	0	0	0	0	0	0	0	100-110	0	23104	100,100
120	0	0	0	0	0	0	0	0	110-120	0	23104	100,100
130	0	0	0	0	0	0	0	0	120-130	0	23104	100,100
140	0	0	0	0	0	0	0	0	130-140	0	23104	100,100
150	0	0	0	0	0	0	0	0	140-150	0	23104	100,100
160	0	0	0	0	0	0	0	0	150-160	0	23104	100,100
170	0	0	0	0	0	0	0	0	160-170	0	23104	100,100
180	0	0	0	0	0	0	0	0	170-180	0	23104	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12473 lm

%lum = 54.0%

%lamp = 54.0%

Conical surface Flux(120deg): 19415 lm

%lum = 84.0%

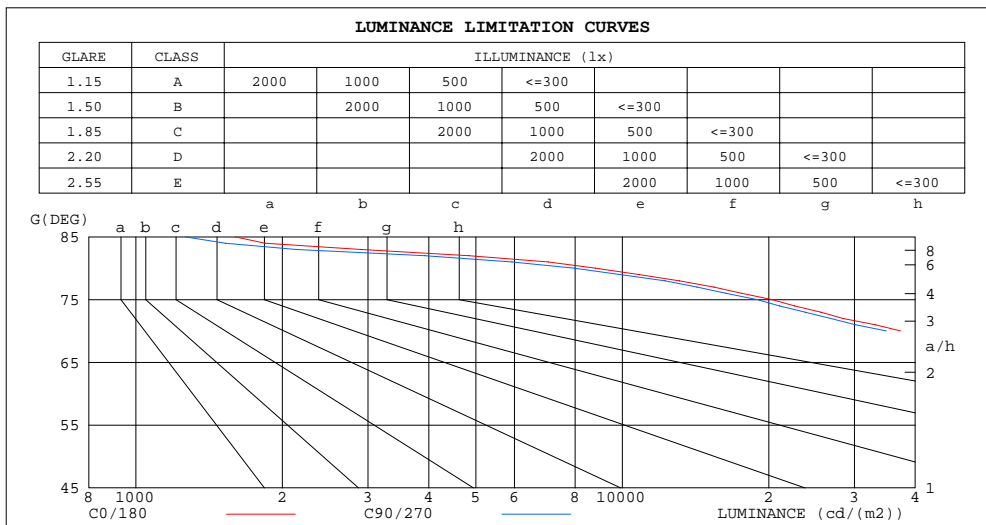
%lamp = 84.0%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-27

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=0.9852]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\Phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\Phi 0.24\text{M}$	Shielding Angle:



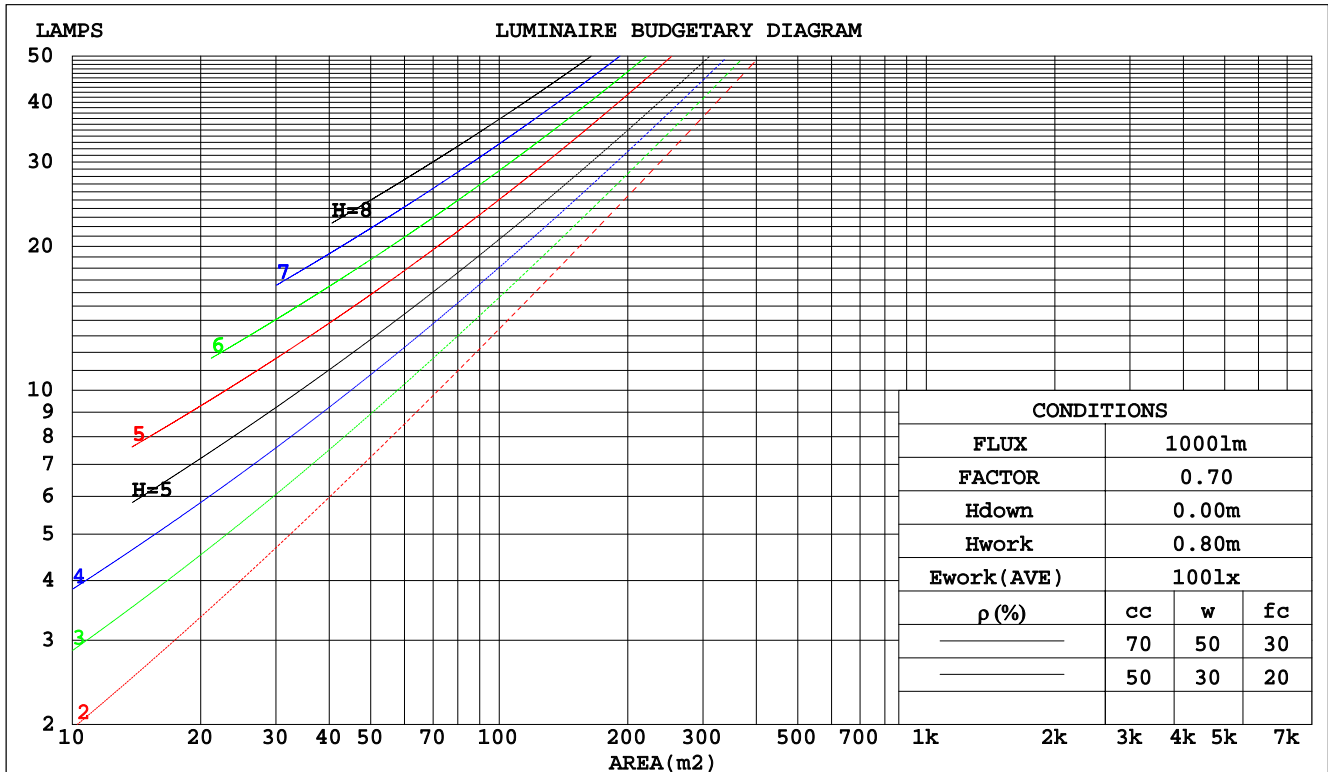
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-27

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=0.9852]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	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	1.06	1.02	.98	1.03	.90	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.92	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.66	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.52
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.41	.54	.47	.41	.53	.46	.41	.51	.45	.40	.38
7.0	.51	.43	.36	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-12-27

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=0.9852]
 Remarks:

WEC AND CCEC

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: ϕ 0.318*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.24M	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	.277	.158	.050	.270	.154	.049	.257	.147	.047	.245	.141	.045	.234	.136	.044		
2.0	.273	.149	.046	.267	.147	.045	.255	.142	.044	.244	.137	.043	.235	.133	.042		
3.0	.259	.138	.041	.253	.136	.041	.243	.132	.040	.234	.128	.039	.225	.125	.039		
4.0	.243	.126	.037	.238	.125	.037	.229	.121	.036	.221	.118	.036	.213	.116	.035		
5.0	.227	.116	.033	.223	.114	.033	.215	.112	.033	.207	.109	.032	.200	.107	.032		
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029		
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021		

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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.060	.057	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-27

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=0.9852]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm												
NAME: AOK-øH					TYPE:LED			WEIGHT:4.6KG				
SPEC.:AOK-150WøH					DIM.: ø0.318*0.138M			SERIAL No.:1				
MFR.: AOK					SUR.:ø0.24M			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	18.3	19.8	18.6	20.0	20.2	18.2	19.7	18.4	19.9	20.1	
	3H	19.1	20.4	19.4	20.7	20.9	18.8	20.2	19.1	20.5	20.7	
	4H	19.0	20.4	19.4	20.6	20.9	18.8	20.1	19.1	20.4	20.6	
	6H	19.0	20.2	19.3	20.5	20.7	18.7	20.0	19.1	20.2	20.5	
	8H	18.9	20.1	19.3	20.4	20.7	18.7	19.9	19.0	20.1	20.4	
	12H	18.9	20.0	19.2	20.3	20.6	18.6	19.8	19.0	20.1	20.4	
	4H	2H	18.8	20.1	19.1	20.4	20.6	18.7	20.0	19.0	20.2	20.5
	3H	19.5	20.7	19.9	21.0	21.3	19.3	20.5	19.7	20.8	21.1	
	4H	19.5	20.6	19.9	20.9	21.2	19.3	20.4	19.7	20.7	21.0	
	6H	19.5	20.4	19.9	20.7	21.1	19.3	20.2	19.7	20.5	20.9	
	8H	19.4	20.3	19.9	20.6	21.0	19.2	20.1	19.6	20.4	20.8	
	12H	19.4	20.2	19.8	20.6	21.0	19.2	19.9	19.6	20.3	20.7	
8H	4H	19.5	20.3	19.9	20.7	21.0	19.3	20.1	19.7	20.5	20.8	
6H	19.4	20.1	19.9	20.5	20.9	19.2	19.9	19.7	20.3	20.7		
8H	19.4	20.0	19.9	20.4	20.9	19.2	19.8	19.6	20.2	20.7		
12H	19.4	19.9	19.8	20.3	20.8	19.1	19.7	19.6	20.1	20.6		
12H	4H	19.4	20.2	19.8	20.6	21.0	19.2	20.0	19.6	20.4	20.8	
6H	19.4	20.0	19.8	20.4	20.9	19.2	19.8	19.6	20.2	20.7		
8H	19.4	19.9	19.8	20.3	20.8	19.1	19.7	19.6	20.1	20.6		
Variations with the observer position at spacings:												
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5						
1.5H	+ 0.3 / - 0.5					+ 0.4 / - 0.5						
2.0H	+ 0.5 / - 1.2					+ 0.5 / - 1.1						

CIE Pub.117, 23104 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 10.9$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-27

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=0.9852]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

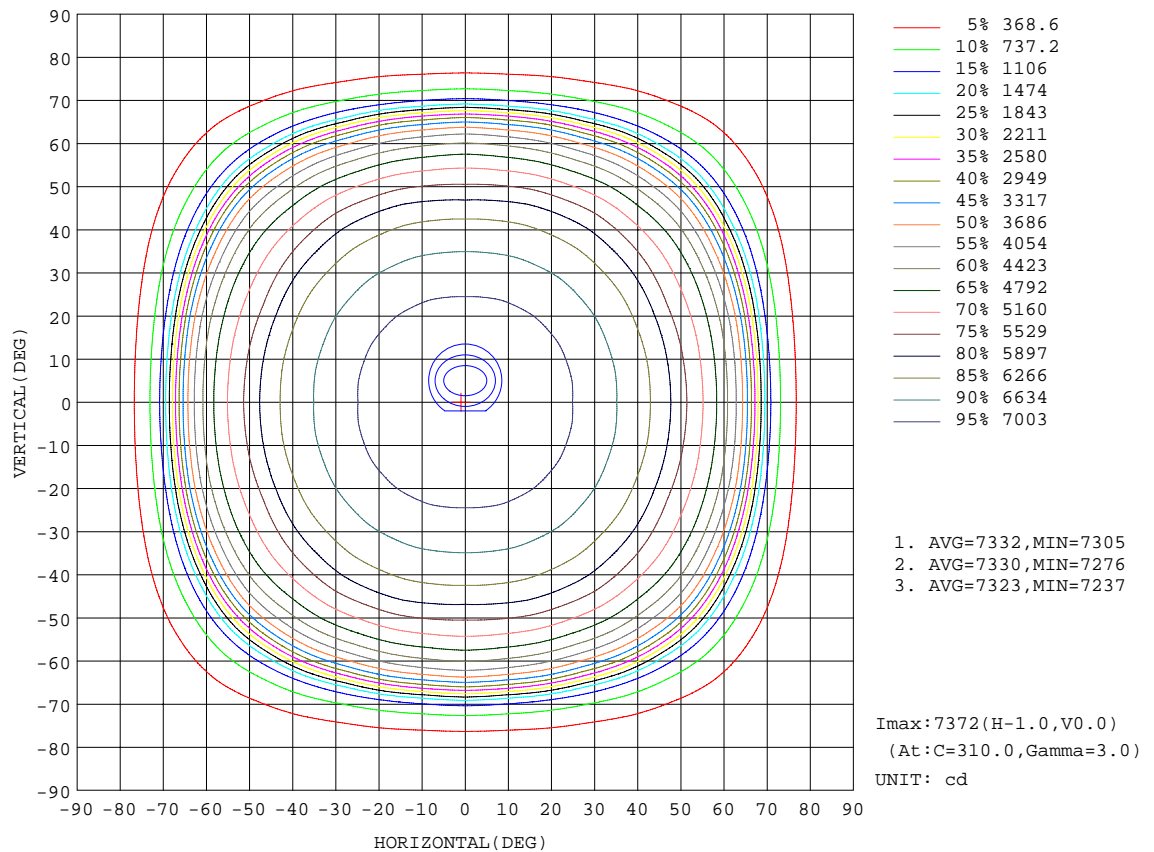
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	56	45	37	56	44	37	54	44	37	31
0.80	67	55	48	66	55	48	64	54	48	41
1.00	76	66	58	75	65	58	73	66	57	50
1.25	84	74	67	83	73	66	80	72	66	58
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	95	87	82	91	85	80	72
2.50	100	93	87	98	92	86	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	104	100	103	100	97	88
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:2017-12-27

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=0.9852]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



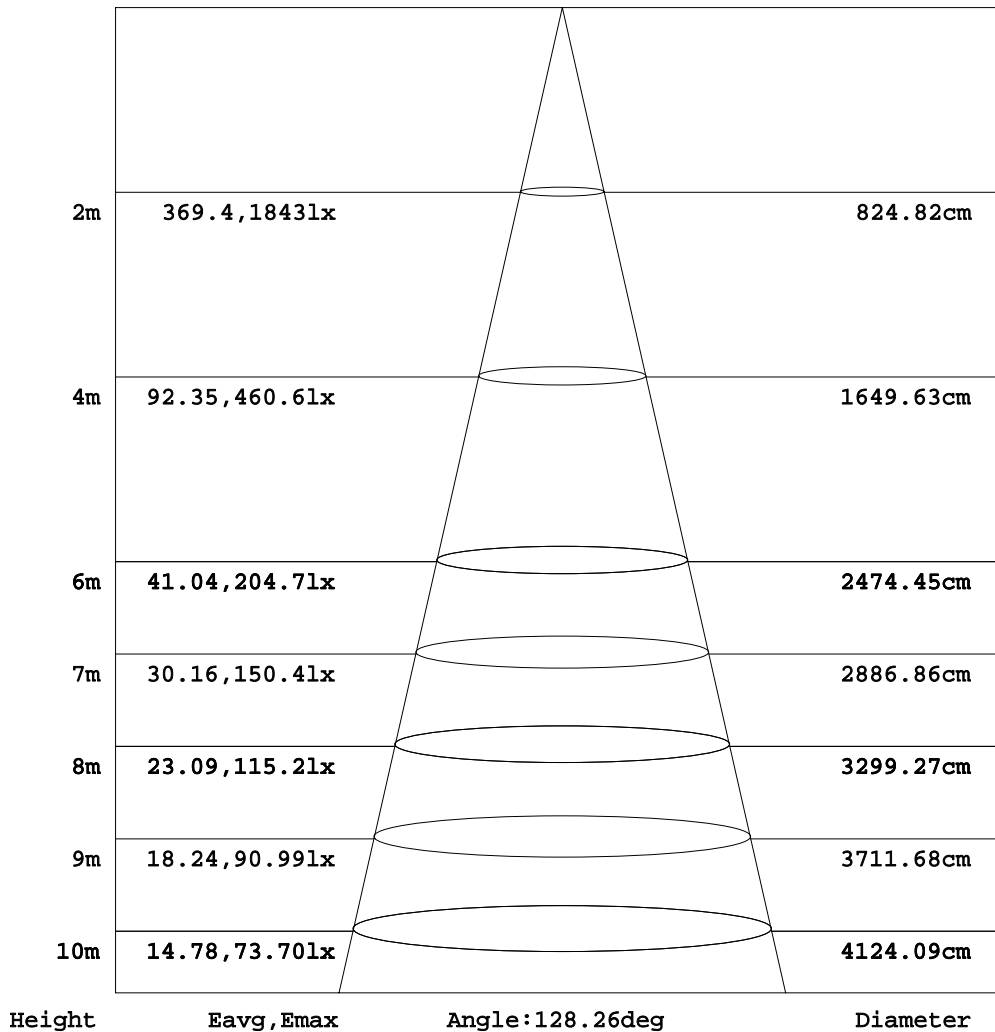
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-27

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=0.9852]
Remarks:

AAI Figure

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

Flux out:21348 lm



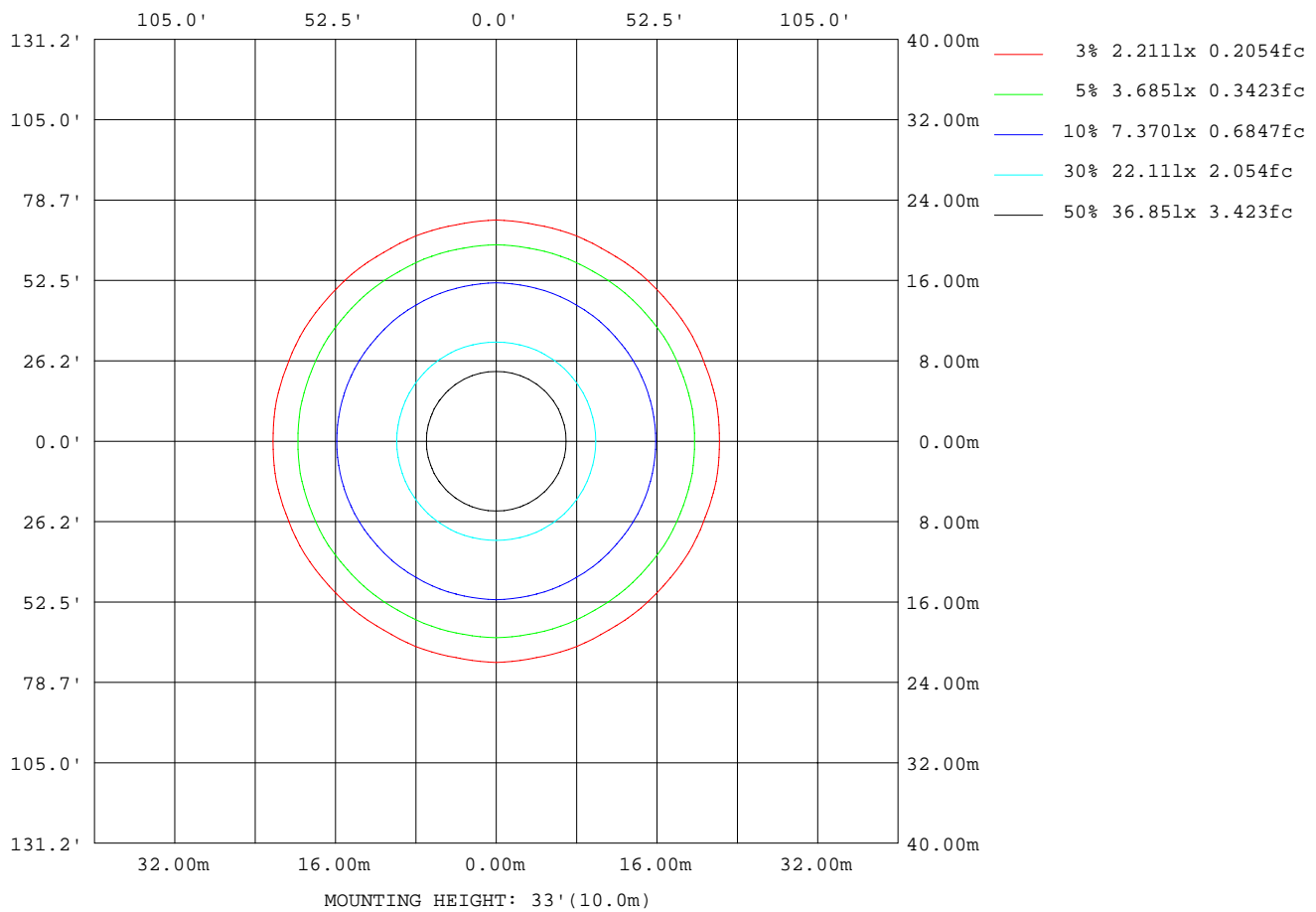
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-12-27

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=0.9852]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-12-27

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=0.9852]
Remarks:

LED Avg.L Report

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh	DIM.: ϕ 0.318*0.138M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.24M	Shielding Angle:

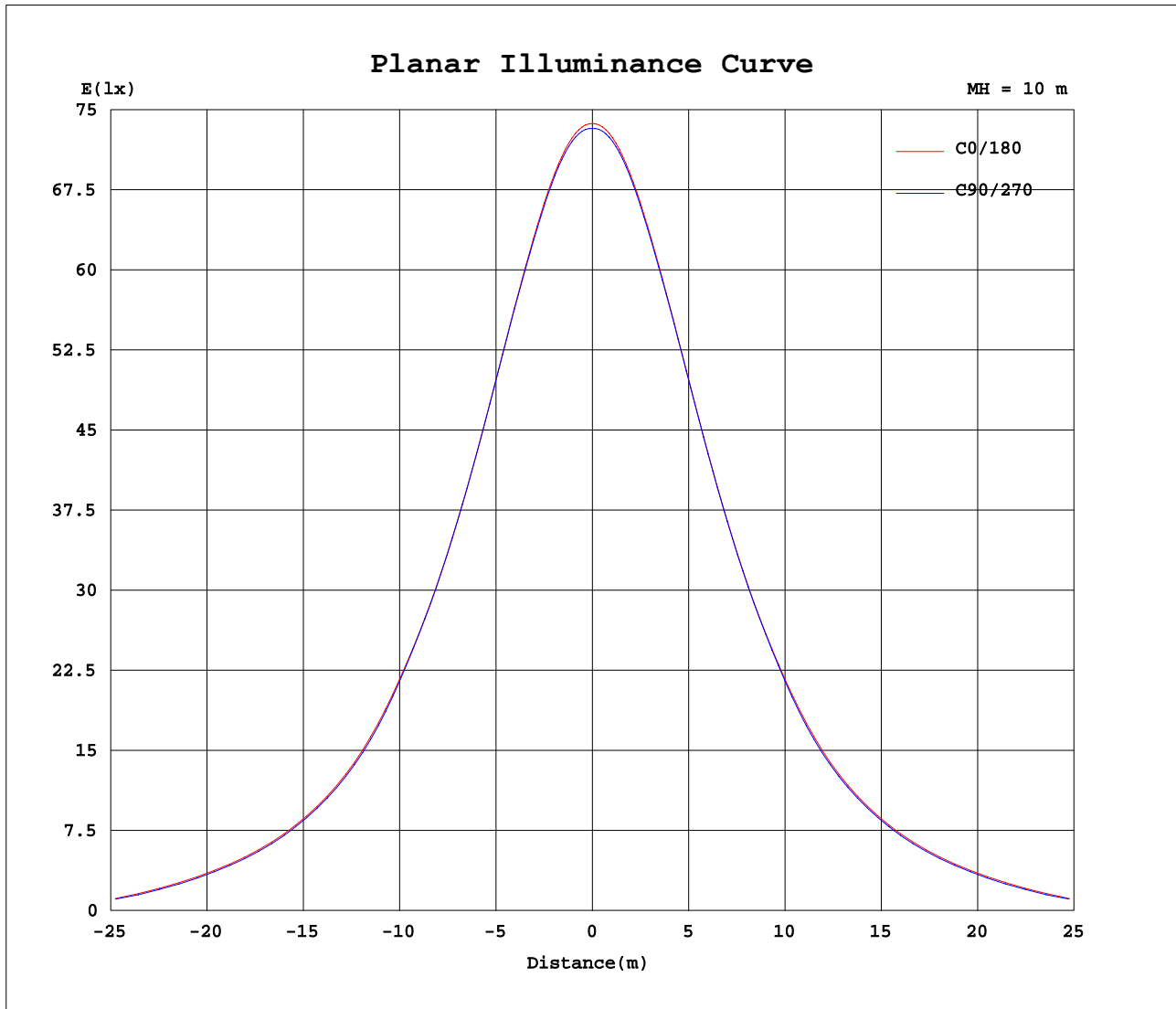
AvgL	cd/m2
L_0~180 (65) av	81999
L_0~180 (75) av	20219
L_0~180 (85) av	1593
L_90~270 (65) av	78553
L_90~270 (75) av	18968
L_90~270 (85) av	1265
L_45 (65) av	78434
L_45 (75) av	19178
L_45 (85) av	1351

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-27

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=0.9852]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-12-27

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=0.9852]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342
5	7334	7339	7343	7345	7346	7348	7348	7348	7347	7345	7347	7348	7348	7348	7346	7345	7343	7339	7334
10	7289	7298	7302	7308	7309	7313	7312	7312	7309	7308	7309	7312	7312	7313	7309	7308	7302	7298	7289
15	7209	7220	7224	7232	7231	7236	7233	7234	7229	7229	7229	7234	7233	7236	7231	7232	7224	7220	7209
20	7103	7117	7123	7133	7134	7140	7136	7138	7132	7129	7132	7138	7136	7140	7134	7133	7123	7117	7103
25	6972	6990	6997	7009	7010	7017	7014	7015	7008	7006	7008	7015	7014	7017	7010	7009	6997	6990	6972
30	6808	6828	6834	6848	6849	6859	6852	6855	6845	6842	6845	6855	6852	6859	6849	6848	6834	6828	6808
35	6615	6634	6636	6651	6652	6664	6658	6660	6649	6647	6649	6660	6658	6664	6652	6651	6636	6634	6615
40	6389	6404	6403	6416	6417	6430	6425	6430	6420	6415	6420	6430	6425	6430	6417	6416	6403	6404	6389
45	6106	6121	6111	6126	6121	6142	6137	6140	6109	6092	6109	6140	6137	6142	6121	6126	6111	6121	6106
50	5644	5635	5606	5635	5645	5677	5656	5657	5612	5591	5612	5657	5656	5677	5645	5635	5606	5635	5644
55	5155	5153	5128	5132	5111	5121	5098	5103	5081	5098	5081	5103	5098	5121	5111	5132	5128	5153	5155
60	4535	4557	4525	4514	4445	4446	4404	4424	4420	4452	4420	4424	4404	4446	4445	4514	4525	4557	4535
65	3465	3492	3423	3416	3327	3305	3238	3284	3261	3320	3261	3284	3238	3305	3327	3416	3423	3492	3465
70	1271	1278	1222	1230	1183	1187	1188	1166	1161	1196	1161	1166	1188	1187	1183	1230	1222	1278	1271
75	523	527	509	511	493	499	476	487	478	491	478	487	476	499	493	511	509	527	523
80	152	155	147	149	142	145	138	141	136	139	136	141	138	145	142	149	147	155	152
85	13.9	14.5	13.5	13.5	11.8	11.7	10.5	10.9	10.2	11.0	10.2	10.9	10.5	11.7	11.8	13.5	13.5	14.5	13.9
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:2017-12-27

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=0.9852]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.7246A P:148.1W PF:0.9577 Freq:49.99Hz Lamp Flux:23103.5x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342	7342		
5	7339	7343	7345	7346	7348	7348	7348	7347	7345	7347	7348	7348	7348	7346	7345	7343	7339		
10	7298	7302	7308	7309	7313	7312	7312	7309	7308	7309	7312	7312	7313	7309	7308	7302	7298		
15	7220	7224	7232	7231	7236	7233	7234	7229	7229	7229	7234	7233	7236	7231	7232	7224	7220		
20	7117	7123	7133	7134	7140	7136	7138	7132	7129	7132	7138	7136	7140	7134	7133	7123	7117		
25	6990	6997	7009	7010	7017	7014	7015	7008	7006	7008	7015	7014	7017	7010	7009	6997	6990		
30	6828	6834	6848	6849	6859	6852	6855	6845	6842	6845	6855	6852	6859	6849	6848	6834	6828		
35	6634	6636	6651	6652	6664	6658	6660	6649	6647	6649	6660	6658	6664	6652	6651	6636	6634		
40	6404	6403	6416	6417	6430	6425	6430	6420	6415	6420	6430	6425	6430	6417	6416	6403	6404		
45	6121	6111	6126	6121	6142	6137	6140	6109	6092	6109	6140	6137	6142	6121	6126	6111	6121		
50	5635	5606	5635	5645	5677	5656	5657	5612	5591	5612	5657	5656	5677	5645	5635	5606	5635		
55	5153	5128	5132	5111	5121	5098	5103	5081	5098	5081	5103	5098	5121	5111	5132	5128	5153		
60	4557	4525	4514	4445	4446	4404	4424	4420	4452	4420	4424	4404	4446	4445	4514	4525	4557		
65	3492	3423	3416	3327	3305	3238	3284	3261	3320	3261	3284	3238	3305	3327	3416	3423	3492		
70	1278	1222	1230	1183	1187	1188	1166	1161	1196	1161	1166	1188	1187	1183	1230	1222	1278		
75	527	509	511	493	499	476	487	478	491	478	487	476	499	493	511	509	527		
80	155	147	149	142	145	138	141	136	139	136	141	138	145	142	149	147	155		
85	14.5	13.5	13.5	11.8	11.7	10.5	10.9	10.2	11.0	10.2	10.9	10.5	11.7	11.8	13.5	13.5	14.5		
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:2017-12-27

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=0.9852]
 Remarks: