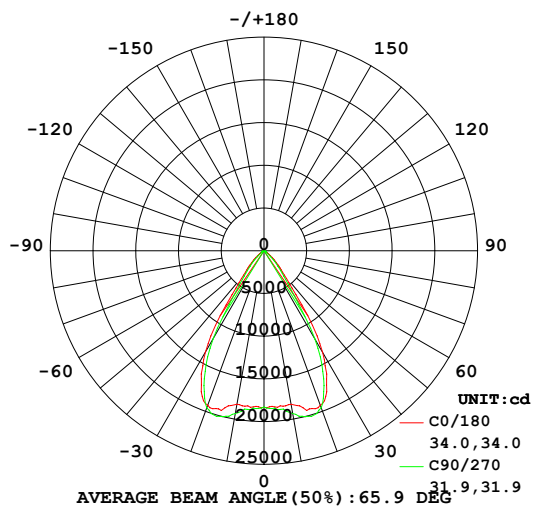


LUMINAIRE PHOTOMETRIC TEST REPORT

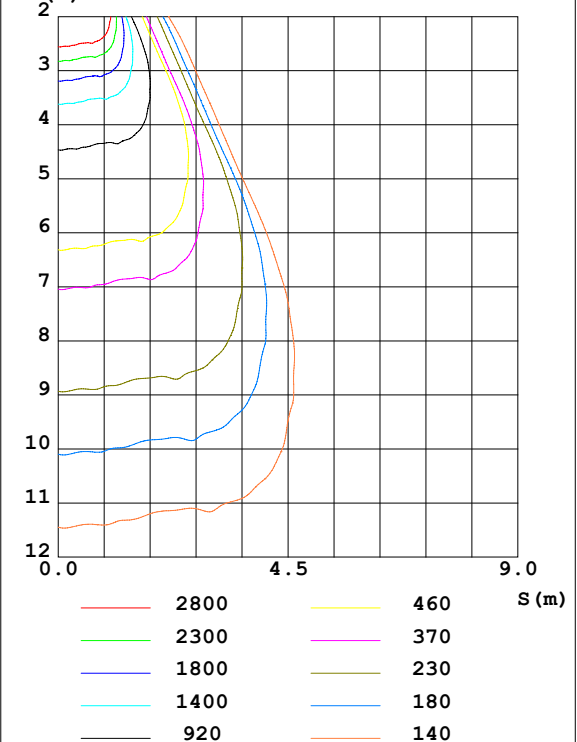
Test:U:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:4.6KG	
SPEC.:AOK-150Woh-5050-60D-PC-ALL		DIM.: $\phi 0.318 \times 0.138\text{M}$		SERIAL No.:	
MFR.: AOK		SUR.: $\phi 0.24\text{M}$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 145.14 lm/W
MODEL	5050	I _{max} (cd)	20164	S/MH (C0/180)	0.98	
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.91	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	21786	η UP, DN (C0-180)	0.0, 50.0	
NOMINAL FLUX (lm)	21785.8	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)	220.0	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: 2018-01-09

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:

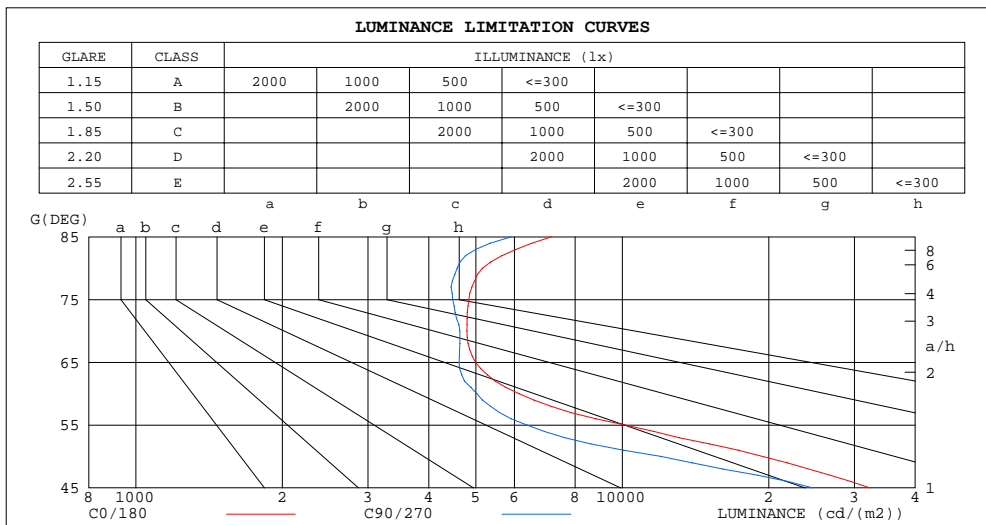
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1825	1875	1935	1875	1825	1875	1935	1875	0- 10	1767	1767	8.11,8.11
20	1925	1940	1957	1940	1925	1940	1957	1940	10- 20	5513	7280	33.4,33.4
30	1372	1277	1193	1277	1372	1277	1193	1277	20- 30	7623	14903	68.4,68.4
40	372.6	346.7	307.5	346.7	372.6	346.7	307.5	346.7	30- 40	4405	19308	88.6,88.6
50	124.8	104.4	77.19	104.4	124.8	104.4	77.19	104.4	40- 50	1621	20929	96.1,96.1
60	30.65	26.06	25.11	26.06	30.65	26.06	25.11	26.06	50- 60	466.8	21396	98.2,98.2
70	16.39	15.62	15.85	15.62	16.39	15.62	15.85	15.62	60- 70	201.2	21597	99.1,99.1
80	8.959	8.286	7.944	8.286	8.959	8.286	7.944	8.286	70- 80	126.4	21723	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	62.57	21786	100,100
100	0	0	0	0	0	0	0	0	90-100	0	21786	100,100
110	0	0	0	0	0	0	0	0	100-110	0	21786	100,100
120	0	0	0	0	0	0	0	0	110-120	0	21786	100,100
130	0	0	0	0	0	0	0	0	120-130	0	21786	100,100
140	0	0	0	0	0	0	0	0	130-140	0	21786	100,100
150	0	0	0	0	0	0	0	0	140-150	0	21786	100,100
160	0	0	0	0	0	0	0	0	150-160	0	21786	100,100
170	0	0	0	0	0	0	0	0	160-170	0	21786	100,100
180	0	0	0	0	0	0	0	0	170-180	0	21786	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7149	5910
80	5159	4575
75	4835	4478
70	4794	4634
65	4991	4616
60	6129	5023
55	10148	6366
50	19409	12009
45	32287	24648

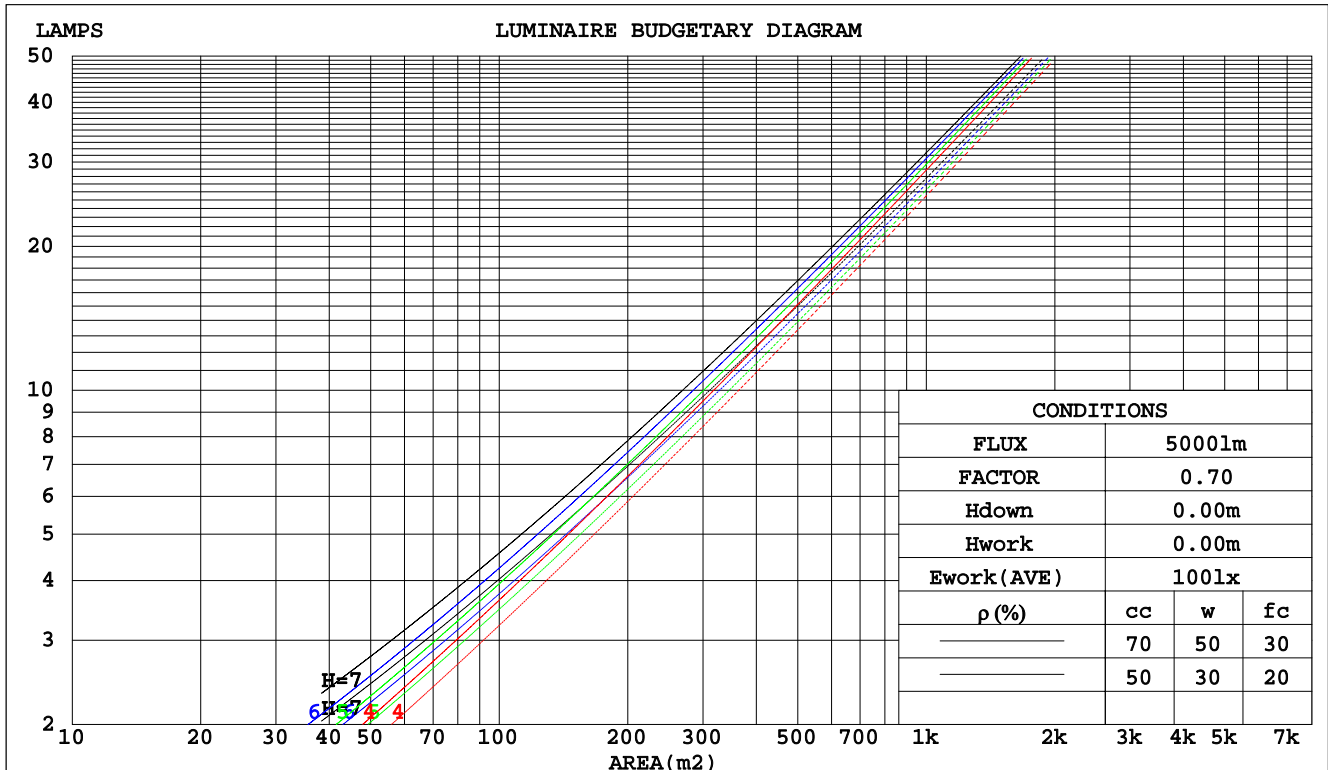
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	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						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	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.89	.85	.93	.88	.84	.90	.86	.83	.88	.85	.82	.86	.83	.80	.79
4.0	.88	.82	.78	.87	.81	.77	.85	.80	.76	.83	.79	.75	.81	.77	.74	.73
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.68
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
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	.56	.53	.61	.56	.52	.60	.56	.52	.51
10.0	.60	.54	.50	.59	.53	.49	.58	.53	.49	.58	.53	.49	.57	.52	.49	.48



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-60D-PC-ALL	DIM.: ϕ 0.318*0.138M	SERIAL No.:
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	.190	.108	.034	.183	.105	.033	.171	.098	.031	.159	.092	.029	.148	.086	.028	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.155	.087	.027	.146	.083	.026	
3.0	.173	.092	.028	.168	.090	.027	.159	.086	.026	.150	.082	.025	.142	.079	.024	
4.0	.164	.085	.025	.160	.084	.025	.152	.081	.024	.145	.078	.023	.138	.075	.023	
5.0	.156	.080	.023	.153	.078	.023	.146	.076	.022	.139	.073	.022	.133	.071	.021	
6.0	.149	.075	.021	.146	.074	.021	.140	.072	.021	.134	.070	.020	.128	.068	.020	
7.0	.142	.070	.020	.139	.069	.020	.134	.068	.019	.129	.066	.019	.124	.064	.019	
8.0	.136	.066	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	.119	.061	.018	
9.0	.130	.063	.018	.128	.062	.017	.123	.061	.017	.119	.060	.017	.115	.059	.017	
10.0	.125	.060	.017	.122	.059	.017	.119	.058	.016	.115	.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	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.050	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.048	.103	.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:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:4.6KG		
SPEC.:AOK-150WoH-5050-60D-PC-ALL					DIM.: ϕ 0.318*0.138M			SERIAL No.:		
MFR.: AOK					SUR.: ϕ 0.24M			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	9.8	10.8	10.0	11.0	11.1	8.3	9.3	8.5	9.5	9.7
3H	9.7	10.6	10.0	10.8	11.1	8.3	9.2	8.5	9.4	9.6
4H	9.7	10.6	10.0	10.8	11.0	8.3	9.2	8.6	9.4	9.6
6H	9.7	10.5	10.0	10.7	11.0	8.3	9.1	8.6	9.3	9.6
8H	9.7	10.5	10.0	10.7	11.0	8.3	9.1	8.6	9.3	9.6
12H	9.7	10.4	10.0	10.7	11.0	8.3	9.0	8.6	9.3	9.6
4H 2H	9.6	10.4	9.9	10.7	10.9	8.1	9.0	8.4	9.2	9.5
3H	9.5	10.3	9.9	10.6	10.8	8.1	8.9	8.5	9.2	9.5
4H	9.6	10.2	9.9	10.5	10.9	8.2	8.9	8.5	9.2	9.5
6H	9.6	10.2	10.0	10.5	10.9	8.3	8.9	8.6	9.2	9.5
8H	9.6	10.2	10.0	10.5	10.9	8.3	8.9	8.7	9.2	9.6
12H	9.7	10.2	10.1	10.6	10.9	8.3	8.8	8.7	9.2	9.6
8H 4H	9.5	10.0	9.9	10.4	10.8	8.1	8.7	8.5	9.0	9.4
6H	9.6	10.0	10.0	10.4	10.8	8.3	8.7	8.7	9.1	9.5
8H	9.6	10.0	10.1	10.4	10.9	8.3	8.7	8.8	9.2	9.6
12H	9.7	10.1	10.2	10.5	11.0	8.4	8.8	8.9	9.2	9.7
12H 4H	9.4	9.9	9.8	10.3	10.7	8.1	8.6	8.5	9.0	9.4
6H	9.5	9.9	10.0	10.4	10.8	8.3	8.7	8.7	9.1	9.5
8H	9.6	10.0	10.1	10.4	10.9	8.4	8.7	8.8	9.1	9.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 3.8					+ 1.9 / - 3.8				
1.5H	+ 3.7 / - 4.2					+ 3.1 / - 3.8				
2.0H	+ 4.3 / - 2.8					+ 4.0 / - 2.1				

CIE Pub.117, 21786 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 10.7$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

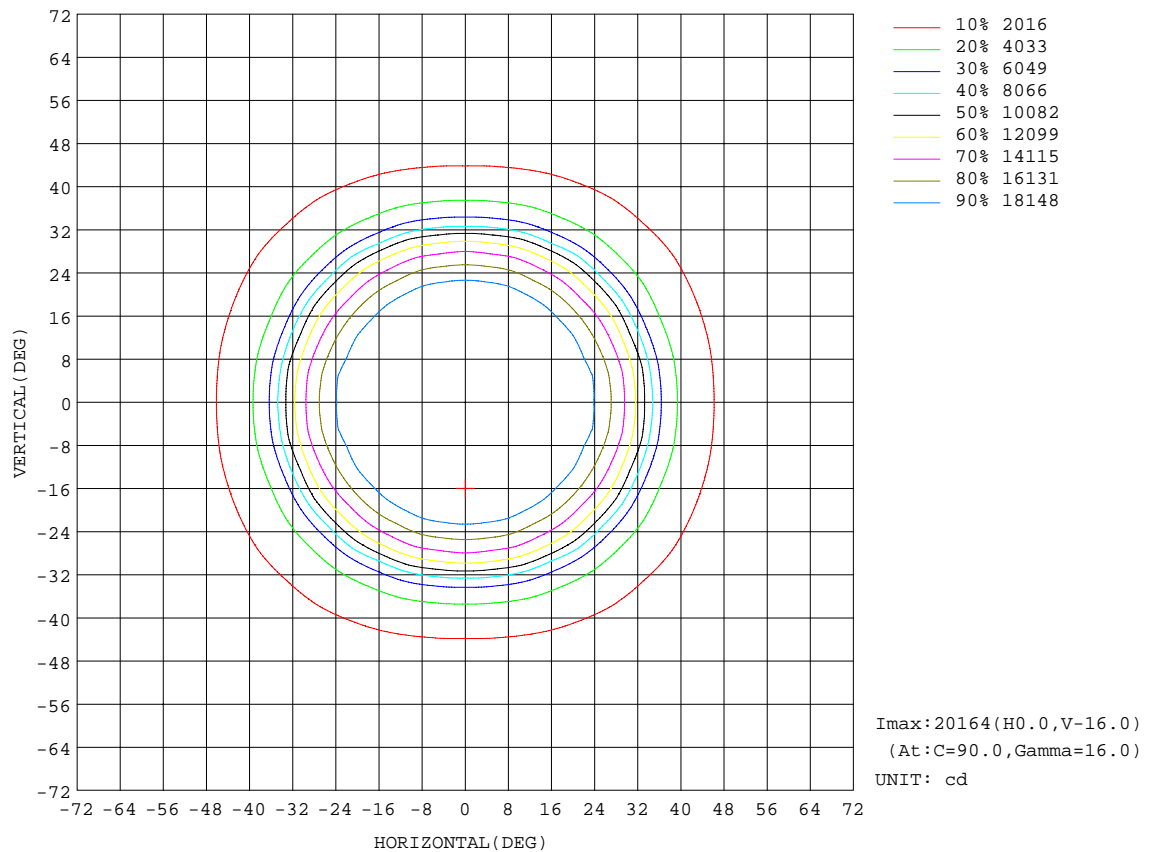
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	78	73	84	77	73	83	77	73	69
0.80	92	86	82	92	86	82	90	85	81	77
1.00	97	91	87	96	91	87	95	91	86	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	98
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:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

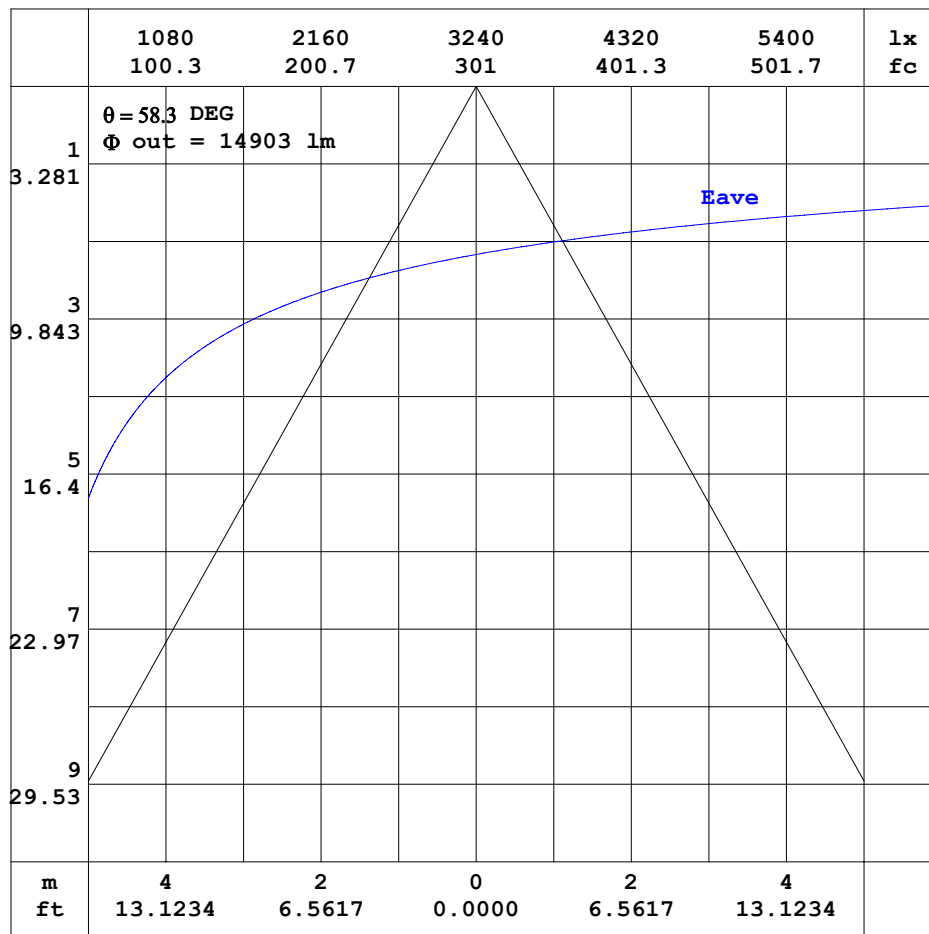


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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 CURVES

Test:U:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



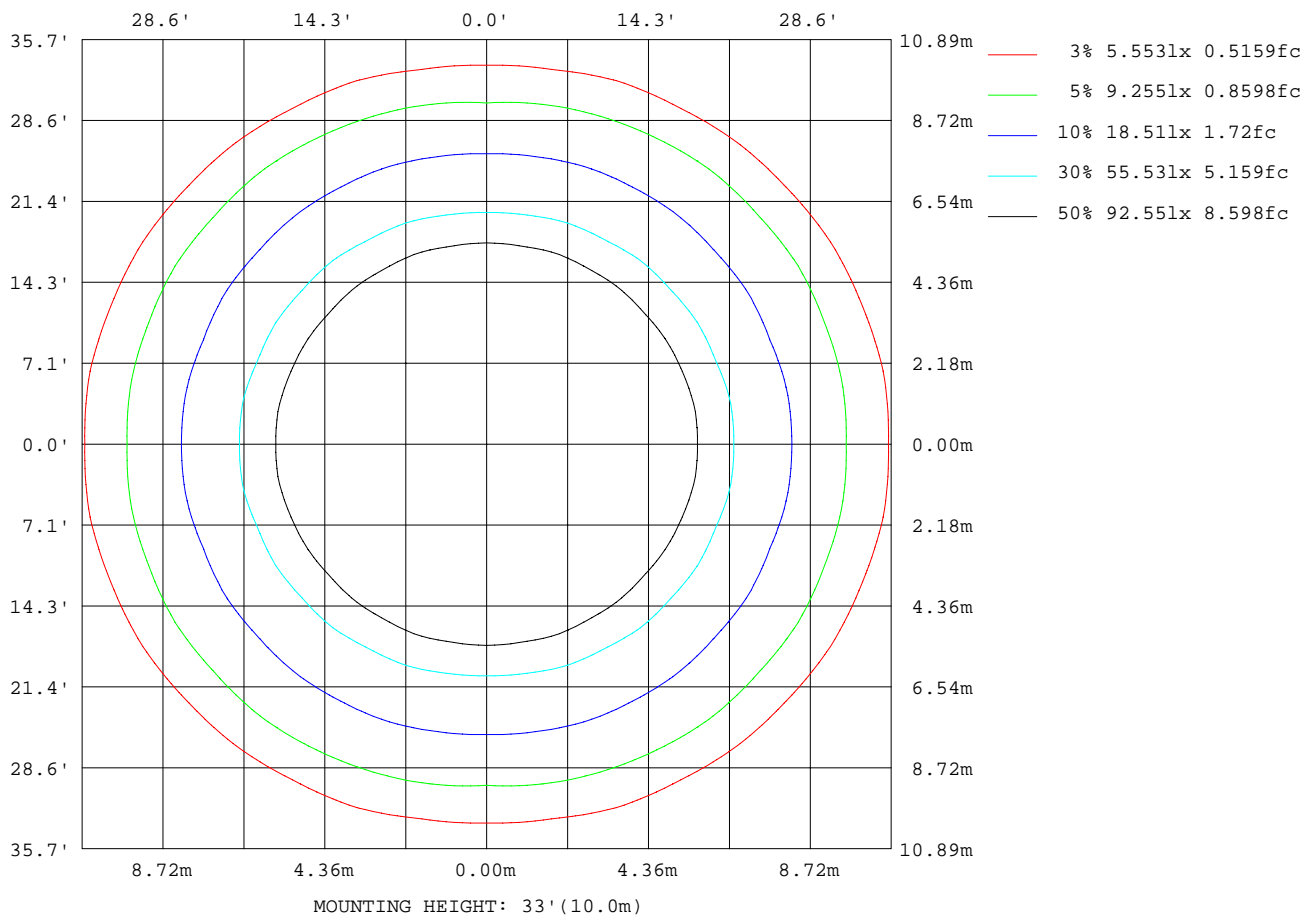
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-60D-PC-ALL	DIM.: ϕ 0.318*0.138M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.24M	Shielding Angle:

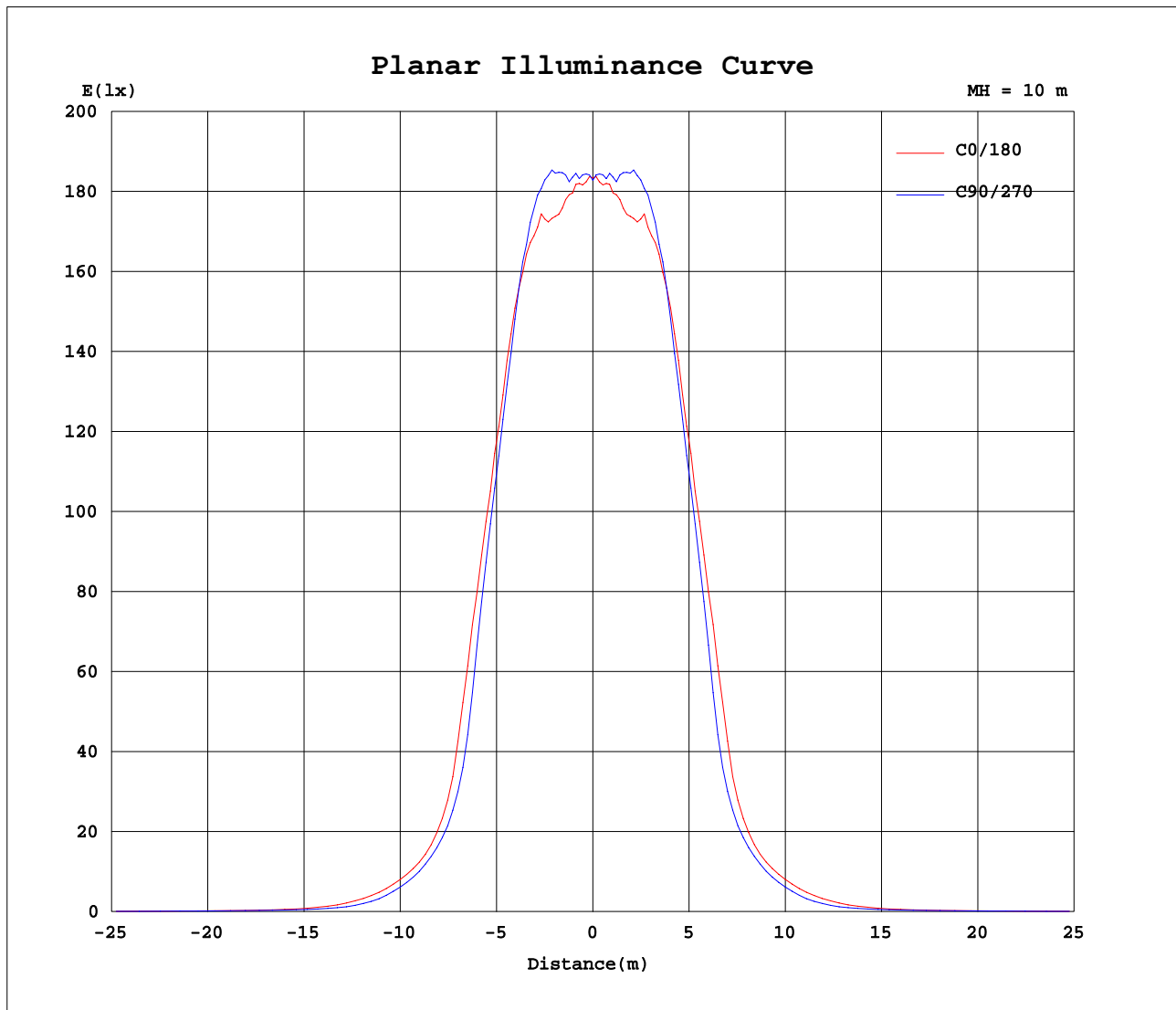
AvgL	cd/m2
L_0~180 (65) av	4991
L_0~180 (75) av	4835
L_0~180 (85) av	7149
L_90~270 (65) av	4616
L_90~270 (75) av	4478
L_90~270 (85) av	5910
L_45 (65) av	4624
L_45 (75) av	4600
L_45 (85) av	6247

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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: 2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150Woh-5050-60D-PC-ALL	DIM.: ϕ 0.318*0.138M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.24M	Shielding Angle:

Table--1

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

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1834	1833	1833	1832	1833	1830	1832	1829	1831	1828	1831	1829	1832	1830	1833	1832	1833	1833	1834
5	1839	1841	1822	1831	1826	1840	1844	1853	1862	1867	1862	1853	1844	1840	1826	1831	1822	1841	1839
10	1825	1837	1836	1851	1867	1884	1893	1904	1921	1935	1921	1904	1893	1884	1867	1851	1836	1837	1825
15	1935	1943	1933	1940	1936	1958	1981	1991	2001	2006	2001	1991	1981	1958	1936	1940	1933	1943	1935
20	1925	1914	1926	1938	1933	1948	1941	1950	1938	1957	1938	1950	1941	1948	1933	1938	1926	1914	1925
25	1735	1737	1713	1698	1683	1693	1672	1683	1647	1653	1647	1683	1672	1693	1683	1698	1713	1737	1735
30	1372	1379	1337	1317	1275	1279	1240	1233	1198	1193	1198	1233	1240	1279	1275	1317	1337	1379	1372
35	775	757	717	693	650	638	601	591	556	546	556	591	601	638	650	693	717	757	775
40	373	372	359	359	349	345	332	325	313	307	313	325	332	345	349	359	359	372	373
45	228	229	227	225	212	210	198	191	178	174	178	191	198	210	212	225	227	229	228
50	125	127	118	116	107	102	97.0	93.6	78.6	77.2	78.6	93.6	97.0	102	107	116	118	127	125
55	58.2	59.4	53.2	48.2	43.6	43.3	40.8	40.0	38.0	36.5	38.0	40.0	40.8	43.3	43.6	48.2	53.2	59.4	58.2
60	30.6	30.4	28.5	27.5	26.3	25.8	25.2	25.4	24.9	25.1	24.9	25.4	25.2	25.8	26.3	27.5	28.5	30.4	30.6
65	21.1	21.0	20.6	20.3	19.7	19.4	19.0	19.2	19.3	19.5	19.3	19.2	19.0	19.4	19.7	20.3	20.6	21.0	21.1
70	16.4	16.4	16.2	16.0	15.7	15.5	15.0	15.1	15.4	15.8	15.4	15.1	15.0	15.5	15.7	16.0	16.2	16.4	16.4
75	12.5	12.6	12.5	12.3	11.9	11.8	11.4	11.4	11.5	11.6	11.5	11.4	11.4	11.8	11.9	12.3	12.5	12.6	12.5
80	8.96	8.99	8.79	8.59	8.30	8.27	8.05	8.11	8.01	7.94	8.01	8.11	8.05	8.27	8.30	8.59	8.79	8.99	8.96
85	6.23	6.12	5.84	5.68	5.47	5.43	5.30	5.33	5.20	5.15	5.20	5.33	5.30	5.43	5.47	5.68	5.84	6.12	6.23
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:2018-01-09

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:219.9V I:0.7202A P:150.1W PF:0.9573 Freq:49.99Hz Lamp Flux:21785.8x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:4.6KG
SPEC.:AOK-150WoH-5050-60D-PC-ALL	DIM.: $\phi 0.318 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

Table--2

UNIT: $\times 10cd$

γ (DEG) \ C (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1833	1833	1832	1833	1830	1832	1829	1831	1828	1831	1829	1832	1830	1833	1832	1833	1833		
5	1841	1822	1831	1826	1840	1844	1853	1862	1867	1862	1853	1844	1840	1826	1831	1822	1841		
10	1837	1836	1851	1867	1884	1893	1904	1921	1935	1921	1904	1893	1884	1867	1851	1836	1837		
15	1943	1933	1940	1936	1958	1981	1991	2001	2006	2001	1991	1981	1958	1936	1940	1933	1943		
20	1914	1926	1938	1933	1948	1941	1950	1938	1957	1938	1950	1941	1948	1933	1938	1926	1914		
25	1737	1713	1698	1683	1693	1672	1683	1647	1653	1647	1683	1672	1693	1683	1698	1713	1737		
30	1379	1337	1317	1275	1279	1240	1233	1198	1193	1198	1233	1240	1279	1275	1317	1337	1379		
35	757	717	693	650	638	601	591	556	546	556	591	601	638	650	693	717	757		
40	372	359	359	349	345	332	325	313	307	313	325	332	345	349	359	359	372		
45	229	227	225	212	210	198	191	178	174	178	191	198	210	212	225	227	229		
50	127	118	116	107	102	97.0	93.6	78.6	77.2	78.6	93.6	97.0	102	107	116	118	127		
55	59.4	53.2	48.2	43.6	43.3	40.8	40.0	38.0	36.5	38.0	40.0	40.8	43.3	43.6	48.2	53.2	59.4		
60	30.4	28.5	27.5	26.3	25.8	25.2	25.4	24.9	25.1	24.9	25.4	25.2	25.8	26.3	27.5	28.5	30.4		
65	21.0	20.6	20.3	19.7	19.4	19.0	19.2	19.3	19.5	19.3	19.2	19.0	19.4	19.7	20.3	20.6	21.0		
70	16.4	16.2	16.0	15.7	15.5	15.0	15.1	15.4	15.8	15.4	15.1	15.0	15.5	15.7	16.0	16.2	16.4		
75	12.6	12.5	12.3	11.9	11.8	11.4	11.4	11.5	11.6	11.5	11.4	11.4	11.8	11.9	12.3	12.5	12.6		
80	8.99	8.79	8.59	8.30	8.27	8.05	8.11	8.01	7.94	8.01	8.11	8.05	8.27	8.30	8.59	8.79	8.99		
85	6.12	5.84	5.68	5.47	5.43	5.30	5.33	5.20	5.15	5.20	5.33	5.30	5.43	5.47	5.68	5.84	6.12		
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: 2018-01-09

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: