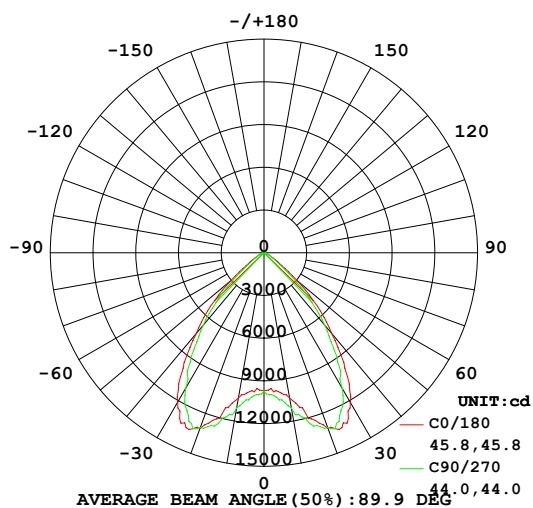


LUMINAIRE PHOTOMETRIC TEST REPORT

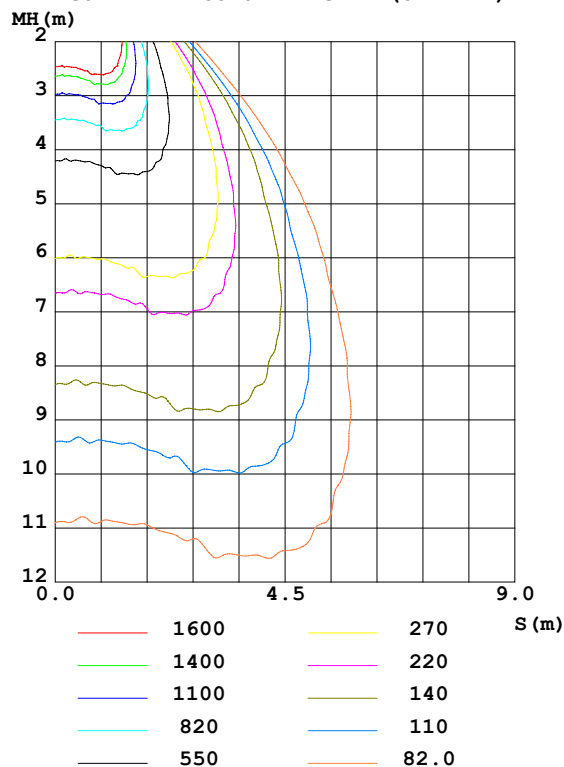
Test:U:219.9V I:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.47 lm/W			
MODEL	5050	I _{max} (cd)	13693	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	21684	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	21684.3	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	100.0	CIBSE SHR MAX	1.25

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:

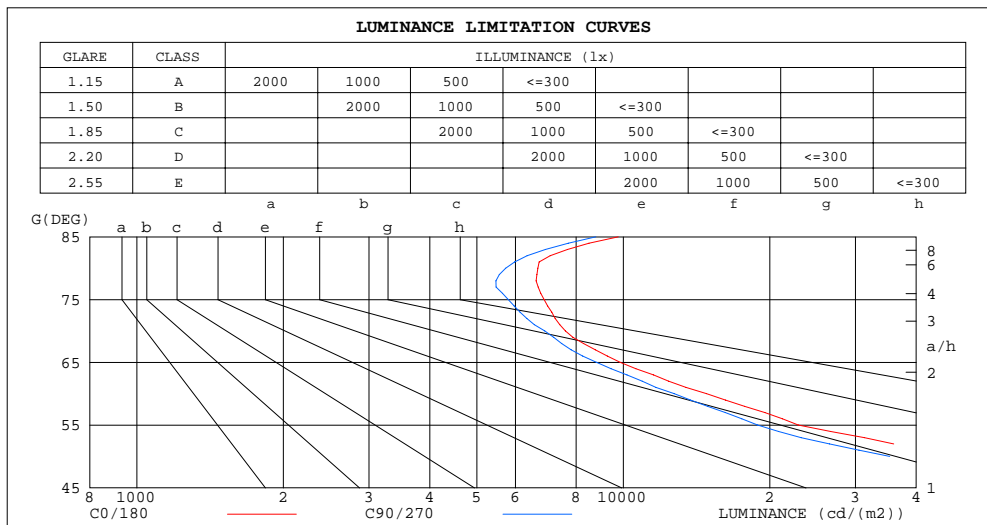
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1036	1084	1107	1084	1036	1084	1107	1084	0- 10	978.1	978.1	4.51,4.51
20	1314	1303	1307	1303	1314	1303	1307	1303	10- 20	3446	4424	20.4,20.4
30	1212	1158	1101	1158	1212	1158	1101	1158	20- 30	5893	10317	47.6,47.6
40	736.2	702.9	663.7	702.9	736.2	702.9	663.7	702.9	30- 40	5815	16131	74.4,74.4
50	303.4	259.2	227.8	259.2	303.4	259.2	227.8	259.2	40- 50	3683	19815	91.4,91.4
60	73.78	68.82	63.92	68.82	73.78	68.82	63.92	68.82	50- 60	1196	21010	96.9,96.9
70	25.88	24.96	23.68	24.96	25.88	24.96	23.68	24.96	60- 70	410.2	21420	98.8,98.8
80	11.53	10.50	9.992	10.50	11.53	10.50	9.992	10.50	70- 80	176.6	21597	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	87.44	21684	100,100
100	0	0	0	0	0	0	0	0	90-100	0	21684	100,100
110	0	0	0	0	0	0	0	0	100-110	0	21684	100,100
120	0	0	0	0	0	0	0	0	110-120	0	21684	100,100
130	0	0	0	0	0	0	0	0	120-130	0	21684	100,100
140	0	0	0	0	0	0	0	0	130-140	0	21684	100,100
150	0	0	0	0	0	0	0	0	140-150	0	21684	100,100
160	0	0	0	0	0	0	0	0	150-160	0	21684	100,100
170	0	0	0	0	0	0	0	0	160-170	0	21684	100,100
180	0	0	0	0	0	0	0	0	170-180	0	21684	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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	9762	8777
80	6672	5728
75	6871	5801
70	7604	6892
65	9847	8809
60	14828	12727
55	22897	18881
50	47428	35282
45	75493	62822

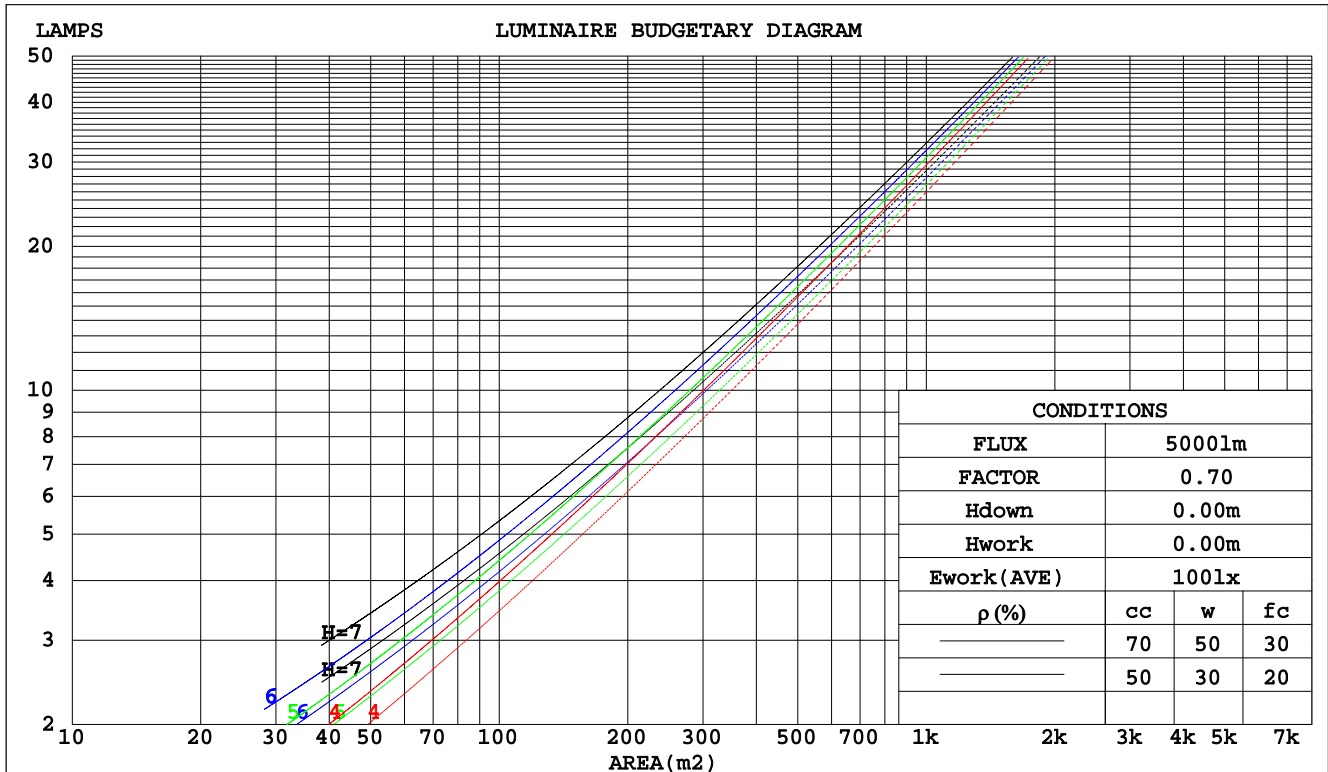
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	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	1.00
1.0	1.09	1.06	1.03	1.07	1.04	1.01	1.02	1.00	.98	.99	.97	.95	.95	.94	.92	.91
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81
3.0	.90	.84	.79	.89	.83	.79	.86	.81	.77	.83	.79	.76	.81	.78	.75	.73
4.0	.82	.76	.71	.81	.75	.70	.79	.73	.69	.77	.72	.68	.75	.71	.68	.66
5.0	.76	.68	.63	.74	.68	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
6.0	.69	.62	.57	.68	.62	.57	.67	.61	.56	.65	.60	.56	.64	.59	.55	.54
7.0	.64	.57	.52	.63	.56	.51	.62	.56	.51	.60	.55	.51	.59	.54	.50	.49
8.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.44
9.0	.55	.48	.43	.54	.47	.43	.53	.47	.43	.52	.47	.42	.51	.46	.42	.41
10.0	.51	.44	.39	.50	.44	.39	.49	.43	.39	.49	.43	.39	.48	.43	.39	.37



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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150WoH-5050-90D-PC-ALL	DIM.: ϕ 0.319*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	.217	.123	.039	.210	.120	.038	.197	.113	.036	.185	.107	.034	.174	.101	.033		
2.0	.210	.115	.035	.204	.112	.035	.193	.107	.033	.183	.102	.032	.173	.098	.031		
3.0	.200	.107	.032	.195	.105	.031	.186	.101	.031	.177	.097	.030	.169	.093	.029		
4.0	.191	.099	.029	.186	.097	.029	.178	.094	.028	.170	.091	.028	.163	.088	.027		
5.0	.181	.092	.027	.177	.091	.026	.170	.088	.026	.163	.086	.026	.157	.084	.025		
6.0	.172	.086	.025	.169	.085	.025	.162	.083	.024	.156	.081	.024	.150	.079	.023		
7.0	.164	.081	.023	.161	.080	.023	.155	.078	.023	.149	.077	.022	.144	.075	.022		
8.0	.156	.076	.021	.153	.075	.021	.148	.074	.021	.143	.072	.021	.138	.071	.021		
9.0	.148	.072	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	.133	.067	.019		
10.0	.142	.068	.019	.139	.067	.019	.135	.066	.019	.131	.065	.019	.127	.064	.018		

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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.129	.098	.073	.089	.068	.051	.051	.040	.030	.016	.013	.010	
4.0	.142	.100	.067	.122	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.054	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
6.0	.128	.080	.045	.110	.069	.039	.076	.048	.028	.044	.028	.017	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.033	.100	.058	.028	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.096	.054	.025	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-150WoH-5050-90D-PC-ALL					DIM.: ϕ 0.319*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	13.4	14.6	13.6	14.7	14.9	12.6	13.8	12.8	14.0	14.2
3H	13.3	14.4	13.6	14.6	14.8	12.5	13.6	12.8	13.8	14.0
4H	13.2	14.3	13.5	14.5	14.7	12.5	13.5	12.8	13.7	14.0
6H	13.2	14.2	13.5	14.4	14.7	12.4	13.4	12.7	13.6	13.9
8H	13.2	14.1	13.5	14.4	14.6	12.4	13.3	12.7	13.6	13.9
12H	13.2	14.0	13.5	14.3	14.6	12.4	13.3	12.7	13.5	13.8
4H 2H	13.2	14.2	13.5	14.4	14.7	12.4	13.5	12.7	13.7	13.9
3H	13.1	14.0	13.5	14.3	14.6	12.4	13.3	12.7	13.6	13.9
4H	13.1	13.9	13.5	14.2	14.5	12.4	13.2	12.7	13.5	13.8
6H	13.1	13.8	13.5	14.1	14.5	12.4	13.1	12.8	13.4	13.8
8H	13.1	13.8	13.5	14.1	14.5	12.4	13.0	12.8	13.4	13.7
12H	13.1	13.7	13.5	14.1	14.5	12.4	13.0	12.8	13.3	13.7
8H 4H	13.0	13.7	13.4	14.0	14.4	12.3	12.9	12.7	13.3	13.7
6H	13.0	13.6	13.5	14.0	14.4	12.3	12.8	12.7	13.2	13.7
8H	13.1	13.5	13.5	13.9	14.4	12.3	12.8	12.8	13.2	13.7
12H	13.1	13.5	13.6	14.0	14.4	12.4	12.8	12.9	13.2	13.7
12H 4H	13.0	13.6	13.4	13.9	14.3	12.3	12.9	12.7	13.2	13.6
6H	13.0	13.5	13.5	13.9	14.3	12.3	12.8	12.7	13.2	13.6
8H	13.0	13.4	13.5	13.9	14.4	12.3	12.7	12.8	13.2	13.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.1					+ 2.0 / - 4.4				
1.5H	+ 2.4 / - 4.1					+ 2.4 / - 3.8				
2.0H	+ 4.9 / - 4.5					+ 4.6 / - 3.9				

CIE Pub.117, 21684 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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150WoH-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:

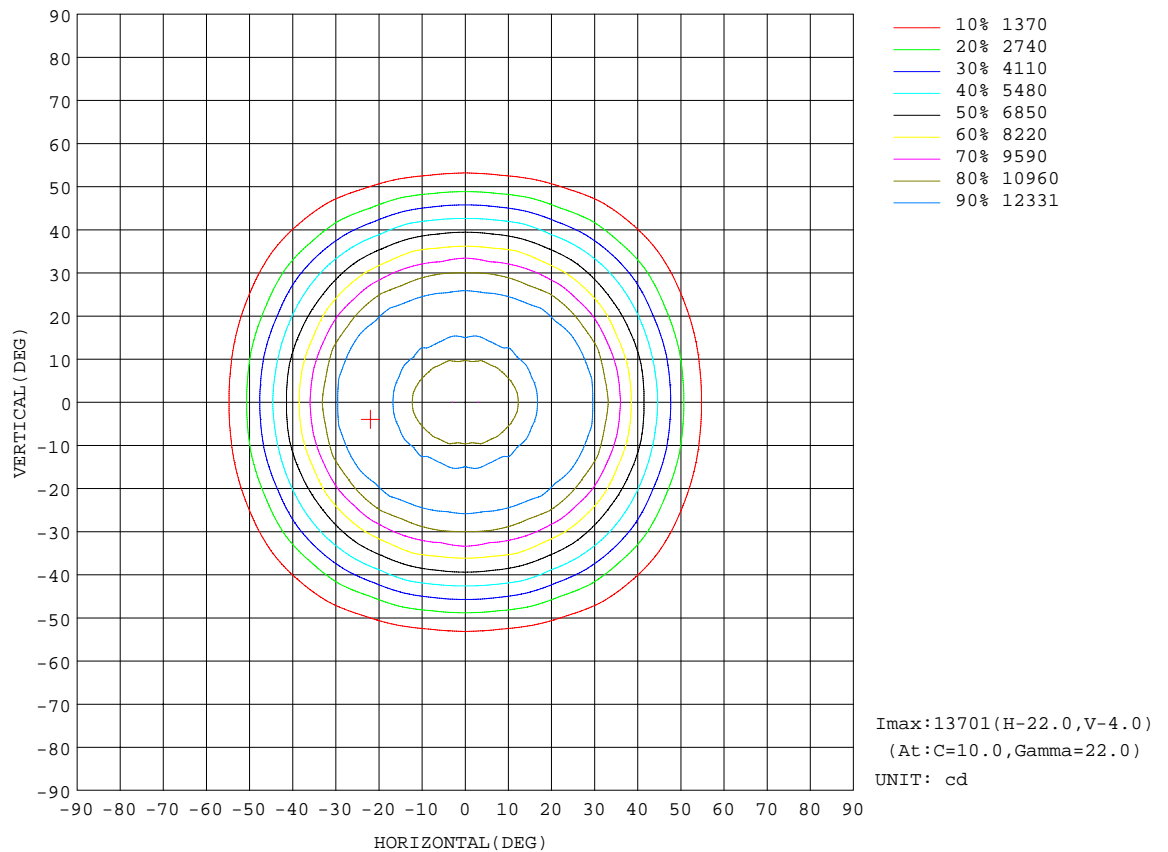
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	67	62	75	67	62	74	66	61	57
0.80	84	76	71	84	76	71	82	75	71	66
1.00	91	84	79	90	83	79	89	84	78	73
1.25	97	90	85	96	89	85	93	88	84	79
1.50	100	94	90	99	93	89	97	92	88	83
2.00	105	99	95	103	98	94	100	96	93	87
2.50	107	102	98	105	101	97	102	98	95	89
3.00	109	105	101	107	103	100	104	100	98	91
4.00	111	108	105	109	106	103	106	103	101	93
5.00	113	110	107	111	108	106	107	104	103	94
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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24\text{M}$	Shielding Angle:

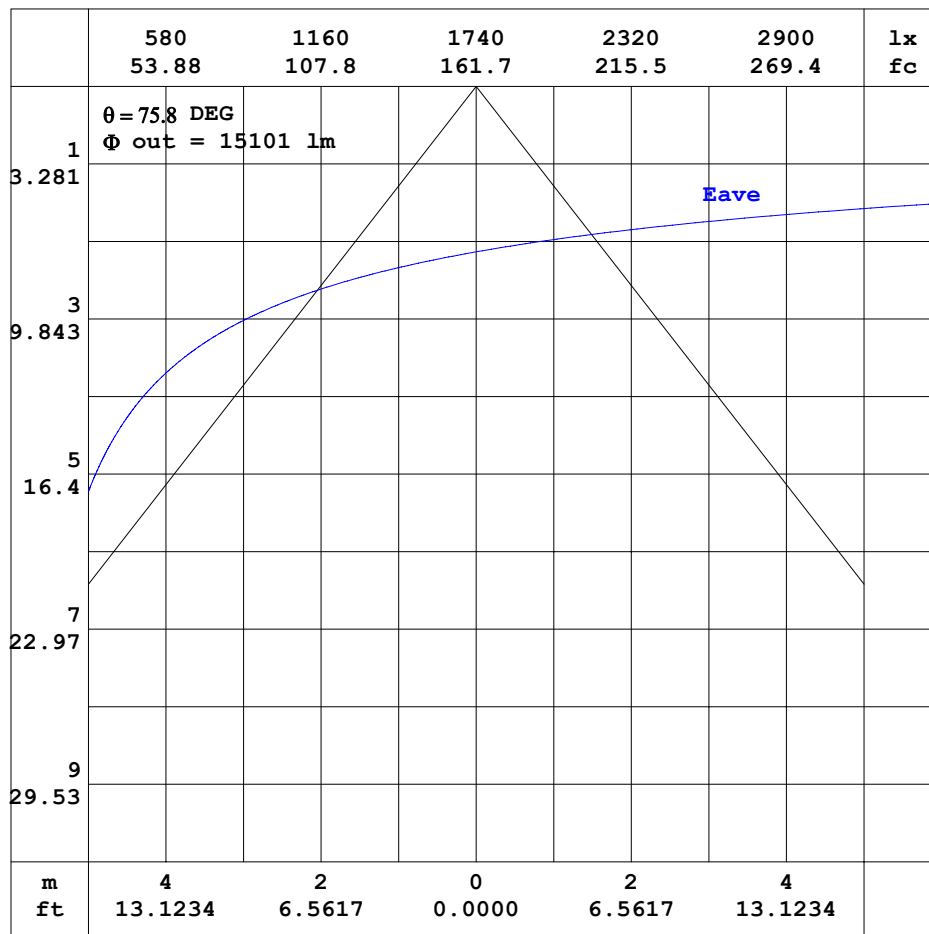


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-09

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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	Shielding Angle:



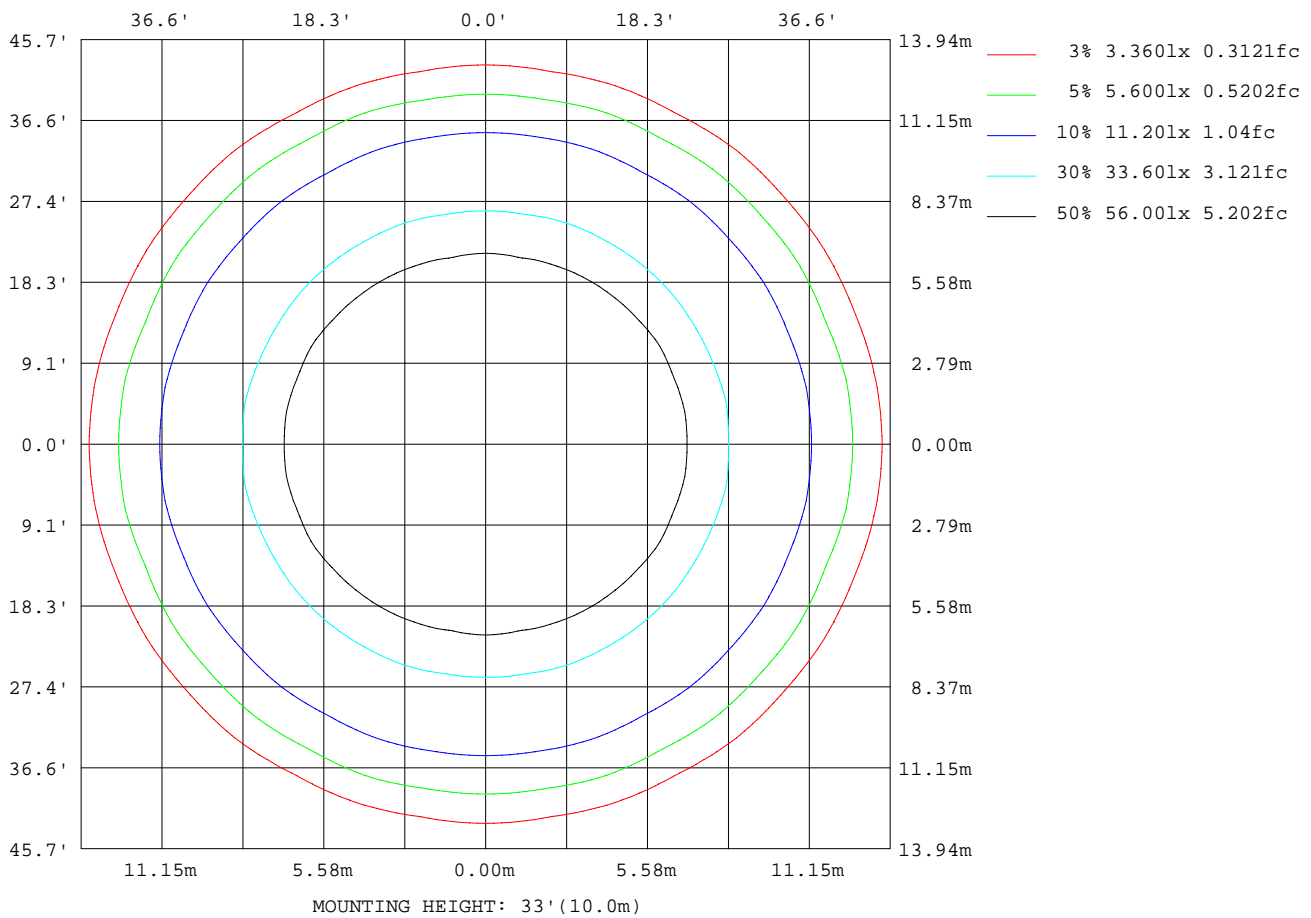
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138\text{M}$	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:

LED Avg.L Report

Test:U:219.9V I:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150Woh-5050-90D-PC-ALL	DIM.: ϕ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.24M	Shielding Angle:

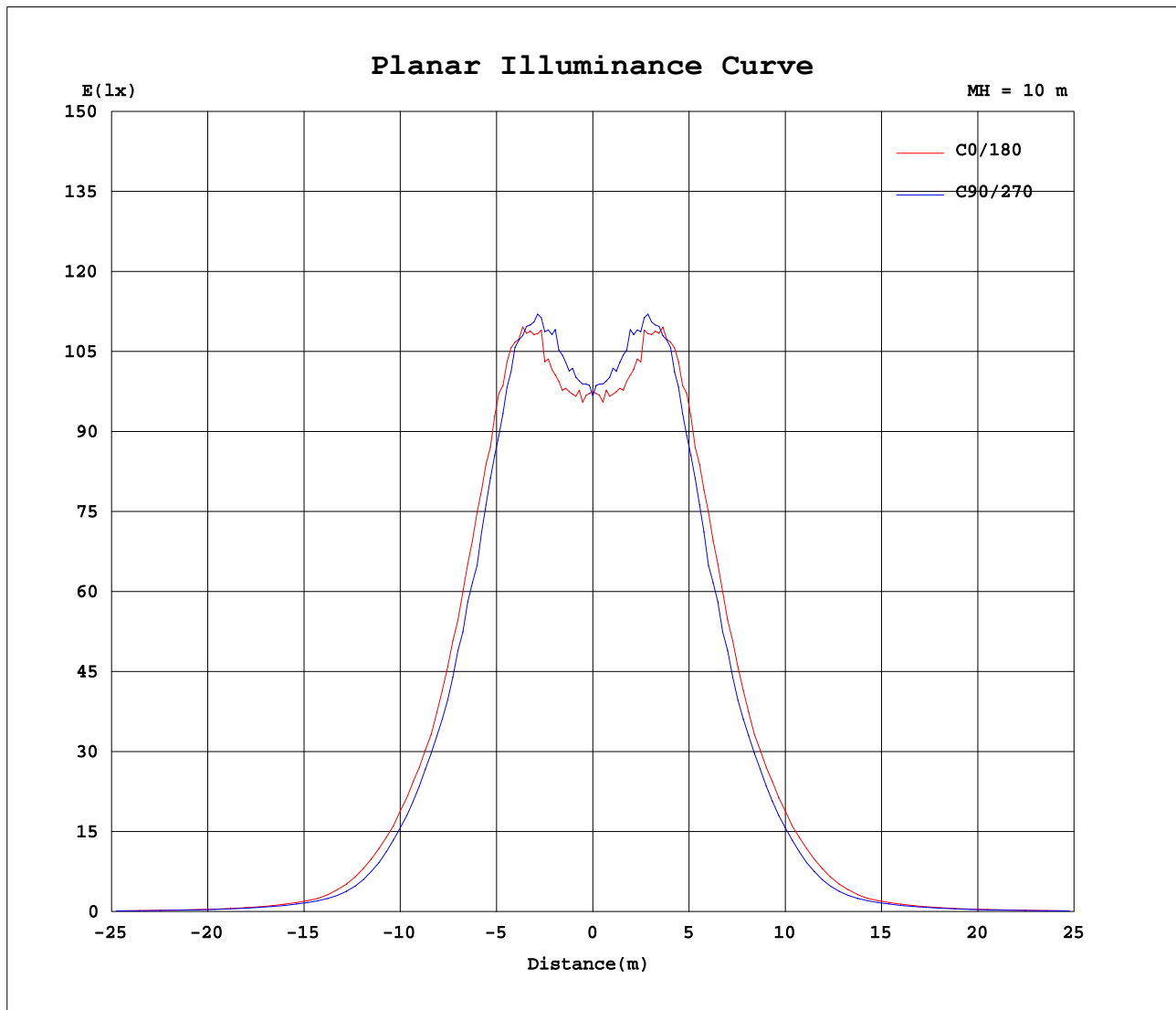
AvgL	cd/m2
L_0~180 (65) av	9799
L_0~180 (75) av	6838
L_0~180 (85) av	9715
L_90~270 (65) av	8848
L_90~270 (75) av	5827
L_90~270 (85) av	8816
L_45 (65) av	9496
L_45 (75) av	6343
L_45 (85) av	9260

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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150WoH-5050-90D-PC-ALL	DIM.: $\phi 0.319 \times 0.138M$	SERIAL No.:
MFR.: AOK	SUR.: $\phi 0.24M$	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	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971
5	973	1007	989	992	986	1002	1018	1009	1026	1018	1026	1009	1018	1002	986	992	989	1007	973
10	1036	1041	1052	1066	1076	1092	1087	1099	1111	1107	1111	1099	1087	1092	1076	1066	1052	1041	1036
15	1204	1185	1214	1174	1205	1229	1229	1235	1215	1241	1215	1235	1229	1229	1205	1174	1214	1185	1204
20	1314	1310	1299	1318	1298	1307	1302	1316	1299	1307	1299	1316	1302	1307	1298	1318	1299	1310	1314
25	1318	1319	1332	1330	1299	1282	1276	1281	1257	1260	1257	1281	1276	1282	1299	1330	1332	1319	1318
30	1212	1226	1194	1186	1156	1161	1125	1117	1109	1101	1109	1117	1125	1161	1156	1186	1194	1226	1212
35	990	1006	974	976	933	943	897	894	882	895	882	894	897	943	933	976	974	1006	990
40	736	751	725	704	709	696	677	676	662	664	662	676	677	696	709	704	725	751	736
45	531	520	509	498	487	481	458	461	450	446	450	461	458	481	487	498	509	520	531
50	303	302	281	281	259	260	237	241	225	228	225	241	237	260	259	281	281	302	303
55	131	132	124	124	121	120	116	112	109	109	109	112	116	120	121	124	124	132	131
60	73.8	73.6	69.8	68.4	68.3	69.3	66.4	64.7	61.8	63.9	61.8	64.7	66.4	69.3	68.3	68.4	69.8	73.6	73.8
65	41.4	41.8	39.9	39.2	39.0	40.9	38.0	37.4	36.1	37.4	36.1	37.4	38.0	40.9	39.0	39.2	39.9	41.8	41.4
70	25.9	26.3	25.5	25.6	25.0	24.9	23.6	23.8	22.9	23.7	22.9	23.8	23.6	24.9	25.0	25.6	25.5	26.3	25.9
75	17.7	17.5	17.0	16.9	16.4	16.4	15.9	15.7	15.1	15.1	15.1	15.7	15.9	16.4	16.4	16.9	17.0	17.5	17.7
80	11.5	11.2	11.0	10.9	10.5	10.5	10.2	10.2	9.98	9.99	9.98	10.2	10.2	10.5	10.5	10.9	11.0	11.2	11.5
85	8.47	8.32	8.22	8.20	8.09	8.05	7.94	7.94	7.74	7.68	7.74	7.94	7.94	8.05	8.09	8.20	8.22	8.32	8.47
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:0.7199A P:150.1W PF:0.9575 Freq:49.99Hz Lamp Flux:21684.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-150WoH-5050-90D-PC-ALL	DIM.: ϕ 0.319*0.138M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.24M	Shielding Angle:

Table--2

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

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971		
5	1007	989	992	986	1002	1018	1009	1026	1018	1026	1009	1018	1002	986	992	989	1007		
10	1041	1052	1066	1076	1092	1087	1099	1111	1107	1111	1099	1087	1092	1076	1066	1052	1041		
15	1185	1214	1174	1205	1229	1229	1235	1215	1241	1215	1235	1229	1229	1205	1174	1214	1185		
20	1310	1299	1318	1298	1307	1302	1316	1299	1307	1299	1316	1302	1307	1298	1318	1299	1310		
25	1319	1332	1330	1299	1282	1276	1281	1257	1260	1257	1281	1276	1282	1299	1330	1332	1319		
30	1226	1194	1186	1156	1161	1125	1117	1109	1101	1109	1117	1125	1161	1156	1186	1194	1226		
35	1006	974	976	933	943	897	894	882	895	882	894	897	943	933	976	974	1006		
40	751	725	704	709	696	677	676	662	664	662	676	677	696	709	704	725	751		
45	520	509	498	487	481	458	461	450	446	450	461	458	481	487	498	509	520		
50	302	281	281	259	260	237	241	225	228	225	241	237	260	259	281	281	302		
55	132	124	124	121	120	116	112	109	109	109	112	116	120	121	124	124	132		
60	73.6	69.8	68.4	68.3	69.3	66.4	64.7	61.8	63.9	61.8	64.7	66.4	69.3	68.3	68.4	69.8	73.6		
65	41.8	39.9	39.2	39.0	40.9	38.0	37.4	36.1	37.4	36.1	37.4	38.0	40.9	39.0	39.2	39.9	41.8		
70	26.3	25.5	25.6	25.0	24.9	23.6	23.8	22.9	23.7	22.9	23.8	23.6	24.9	25.0	25.6	25.5	26.3		
75	17.5	17.0	16.9	16.4	16.4	15.9	15.7	15.1	15.1	15.1	15.7	15.9	16.4	16.4	16.9	17.0	17.5		
80	11.2	11.0	10.9	10.5	10.5	10.2	10.2	9.98	9.99	9.98	10.2	10.2	10.5	10.5	10.9	11.0	11.2		
85	8.32	8.22	8.20	8.09	8.05	7.94	7.94	7.74	7.68	7.74	7.94	7.94	8.05	8.09	8.20	8.22	8.32		
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: