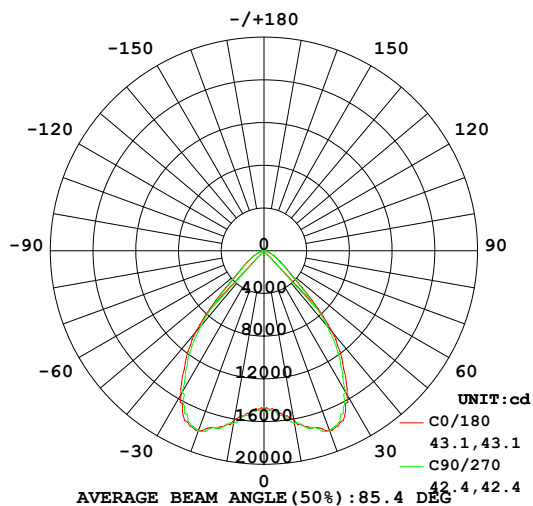


LUMINAIRE PHOTOMETRIC TEST REPORT

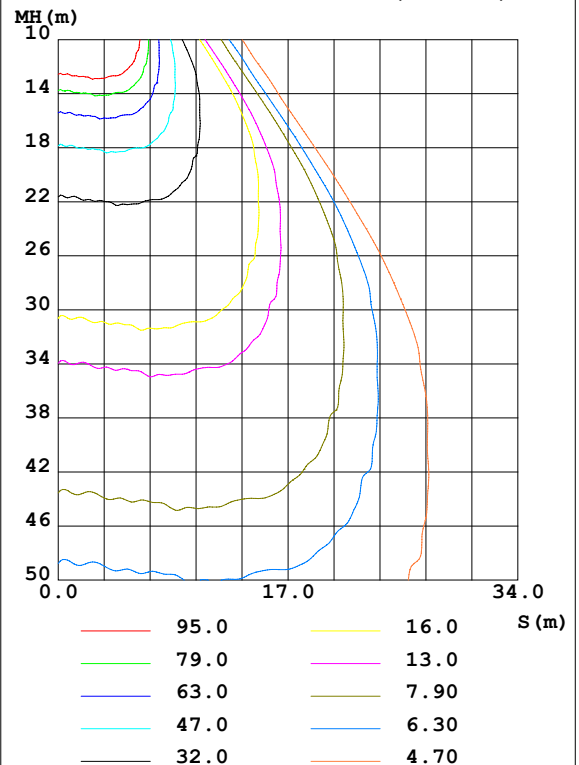
Test:U:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm					
NAME: AOK-oH		TYPE:LED		WEIGHT:6.0KG	
SPEC.:AOK-240Woh-3030-90D-PC-ALL		DIM.: $\phi 0.4 \times 0.141M$		SERIAL No.:1	
MFR.: AOK		SUR.: $\phi 0.29M$		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.57 lm/W			
MODEL	3030	I _{max} (cd)	17974	S/MH (C0/180)	1.25
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	28823	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	28823.3	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.15

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: 2018-01-02

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	1606	1639	1642	1639	1606	1639	1642	1639	0- 10	1488	1488	5.16, 5.16
20	1795	1765	1797	1765	1795	1765	1797	1765	10- 20	4868	6356	22.1, 22.1
30	1553	1491	1532	1491	1553	1491	1532	1491	20- 30	7749	14104	48.9, 48.9
40	996.9	889.6	920.1	889.6	996.9	889.6	920.1	889.6	30- 40	7591	21696	75.3, 75.3
50	309.0	279.0	290.1	279.0	309.0	279.0	290.1	279.0	40- 50	4151	25846	89.7, 89.7
60	137.2	123.7	129.6	123.7	137.2	123.7	129.6	123.7	50- 60	1727	27573	95.7, 95.7
70	56.07	46.58	52.99	46.58	56.07	46.58	52.99	46.58	60- 70	833.3	28406	98.6, 98.6
80	17.27	14.63	16.90	14.63	17.27	14.63	16.90	14.63	70- 80	313.0	28719	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	103.8	28823	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	28823	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	28823	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	28823	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	28823	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	28823	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	28823	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	28823	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	28823	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	28823	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 24324 lm

%lum = 84.4%

%lamp = 84.4%

Conical surface Flux(120deg): 27573 lm

%lum = 95.7%

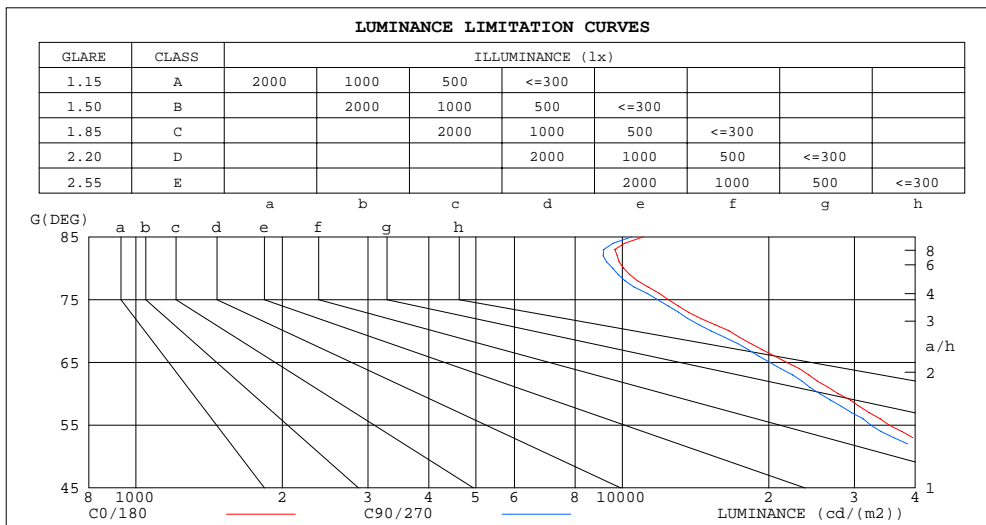
%lamp = 95.7%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



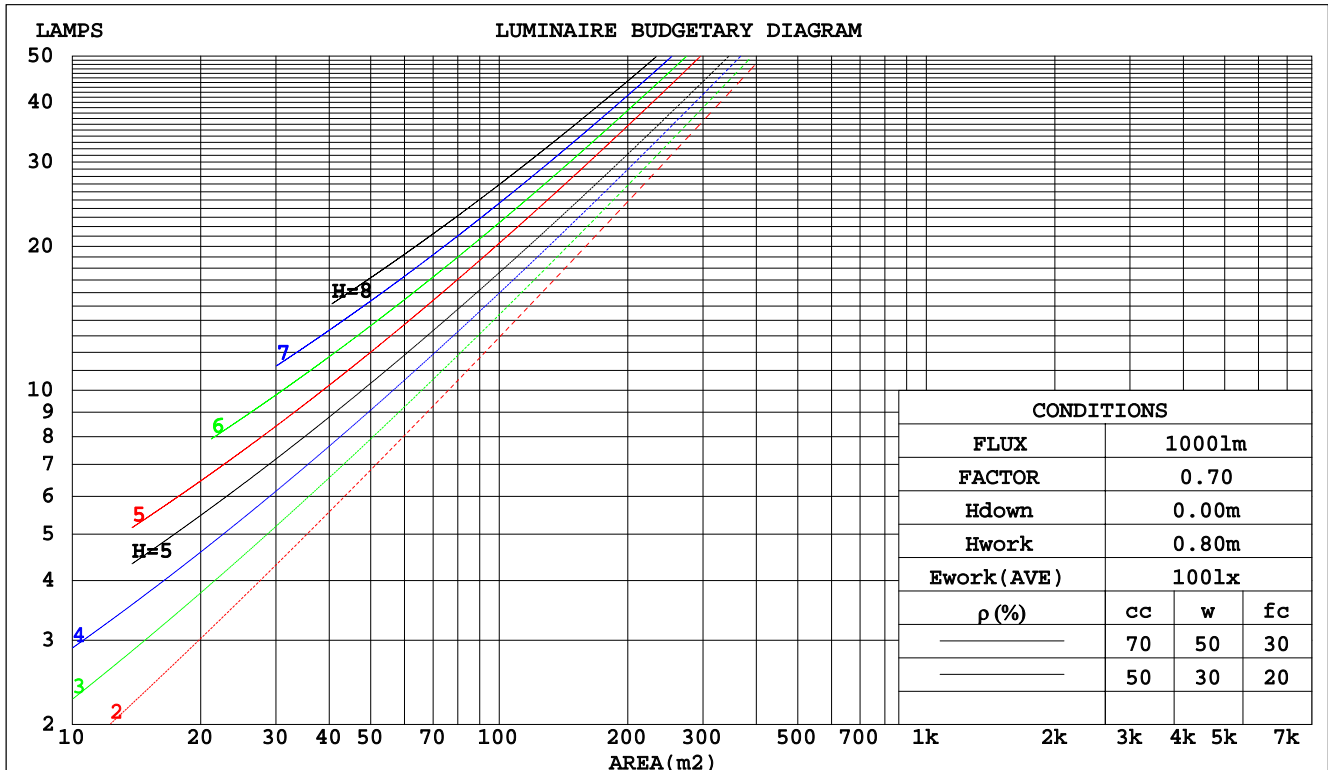
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.09	1.06	1.03	1.06	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	.74	.69	.77	.72	.68	.75	.71	.68	.66
5.0	.76	.69	.63	.75	.68	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
6.0	.70	.62	.57	.69	.62	.57	.67	.61	.57	.66	.60	.56	.64	.59	.56	.54
7.0	.64	.57	.52	.64	.57	.52	.62	.56	.51	.61	.55	.51	.60	.55	.51	.49
8.0	.59	.52	.47	.59	.52	.47	.58	.51	.47	.57	.51	.47	.55	.50	.47	.45
9.0	.55	.48	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.47	.43	.41
10.0	.51	.45	.40	.51	.44	.40	.50	.44	.40	.49	.44	.40	.48	.43	.40	.38



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-90D-PC-ALL	DIM.: ϕ 0.4*0.141M	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.29M	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.218	.124	.039	.211	.120	.038	.198	.114	.036	.186	.108	.035	.176	.102	.033	
2.0	.211	.115	.035	.205	.113	.035	.194	.108	.033	.184	.103	.032	.174	.099	.031	
3.0	.201	.107	.032	.196	.105	.032	.186	.101	.031	.177	.097	.030	.169	.094	.029	
4.0	.190	.099	.029	.186	.097	.029	.178	.094	.028	.170	.091	.028	.163	.088	.027	
5.0	.181	.092	.027	.177	.091	.026	.169	.088	.026	.163	.086	.026	.156	.083	.025	
6.0	.171	.086	.025	.168	.085	.024	.161	.083	.024	.155	.081	.024	.150	.079	.023	
7.0	.163	.080	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	.143	.074	.022	
8.0	.155	.076	.021	.152	.075	.021	.147	.073	.021	.142	.072	.021	.137	.070	.021	
9.0	.147	.071	.020	.145	.071	.020	.140	.069	.020	.136	.068	.019	.132	.067	.019	
10.0	.140	.067	.019	.138	.067	.019	.134	.066	.018	.130	.065	.018	.126	.063	.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	.130	.098	.073	.089	.068	.051	.051	.040	.030	.017	.013	.010	
4.0	.142	.100	.067	.122	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.055	.116	.077	.047	.080	.054	.034	.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	.072	.044	.024	.042	.026	.014	.014	.009	.005	
8.0	.116	.067	.033	.100	.058	.028	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.111	.062	.028	.096	.054	.025	.066	.038	.018	.039	.022	.010	.013	.007	.003	
10.0	.106	.057	.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:2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm										
NAME: AOK-oH					TYPE:LED			WEIGHT:6.0KG		
SPEC.:AOK-240Woh-3030-90D-PC-ALL					DIM.: $\phi 0.4 \times 0.141M$			SERIAL No.:1		
MFR.: AOK					SUR.: $\phi 0.29M$			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	13.0	14.2	13.2	14.4	14.5	12.5	13.7	12.8	13.9	14.1
3H	13.1	14.2	13.4	14.4	14.6	12.6	13.7	12.9	13.9	14.1
4H	13.1	14.1	13.4	14.4	14.6	12.6	13.7	12.9	13.9	14.1
6H	13.1	14.0	13.4	14.3	14.5	12.6	13.6	12.9	13.8	14.1
8H	13.1	14.0	13.4	14.2	14.5	12.6	13.5	12.9	13.8	14.1
12H	13.0	13.9	13.4	14.2	14.5	12.6	13.5	12.9	13.7	14.0
4H 2H	12.9	13.9	13.2	14.2	14.4	12.5	13.5	12.8	13.7	14.0
3H	13.1	14.0	13.4	14.2	14.5	12.7	13.5	13.0	13.8	14.1
4H	13.1	13.9	13.5	14.2	14.5	12.7	13.5	13.1	13.8	14.1
6H	13.1	13.8	13.5	14.2	14.5	12.7	13.4	13.1	13.8	14.1
8H	13.1	13.8	13.5	14.1	14.5	12.7	13.4	13.1	13.7	14.1
12H	13.1	13.7	13.6	14.1	14.5	12.7	13.3	13.1	13.7	14.1
8H 4H	13.1	13.7	13.5	14.1	14.4	12.6	13.3	13.0	13.6	14.0
6H	13.1	13.6	13.5	14.0	14.4	12.7	13.2	13.1	13.6	14.0
8H	13.1	13.6	13.6	14.0	14.4	12.7	13.2	13.2	13.6	14.0
12H	13.1	13.5	13.6	14.0	14.5	12.7	13.1	13.2	13.6	14.0
12H 4H	13.0	13.6	13.4	14.0	14.4	12.6	13.2	13.0	13.6	14.0
6H	13.1	13.5	13.5	14.0	14.4	12.7	13.1	13.1	13.5	14.0
8H	13.1	13.5	13.6	13.9	14.4	12.7	13.1	13.2	13.5	14.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 2.9					+ 1.6 / - 2.8				
1.5H	+ 2.9 / - 2.4					+ 2.8 / - 2.4				
2.0H	+ 3.8 / - 2.2					+ 3.6 / - 2.0				

CIE Pub.117, 28823 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 11.7$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

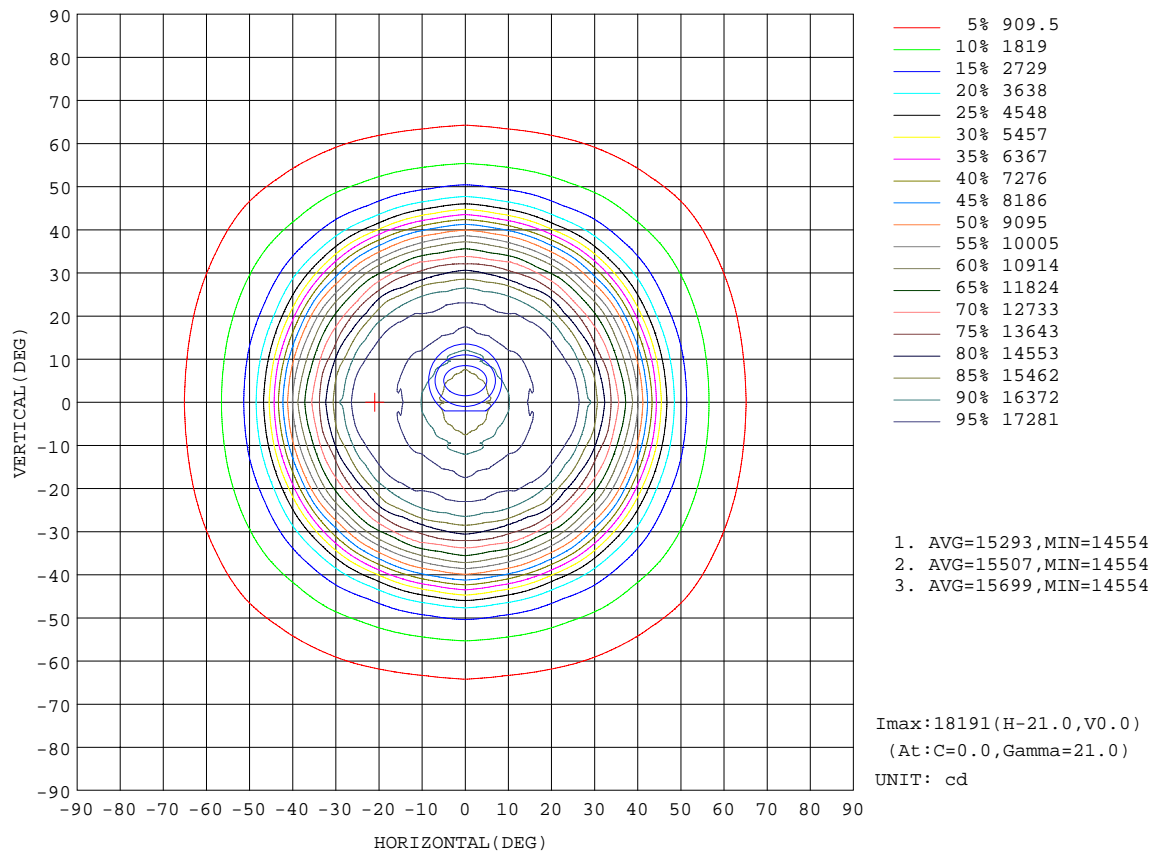
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	68	63	75	67	62	74	67	62	58
0.80	85	77	72	84	77	72	83	76	71	67
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	112	108	105	109	106	104	106	103	101	93
5.00	113	110	107	111	108	106	107	105	103	95
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:2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



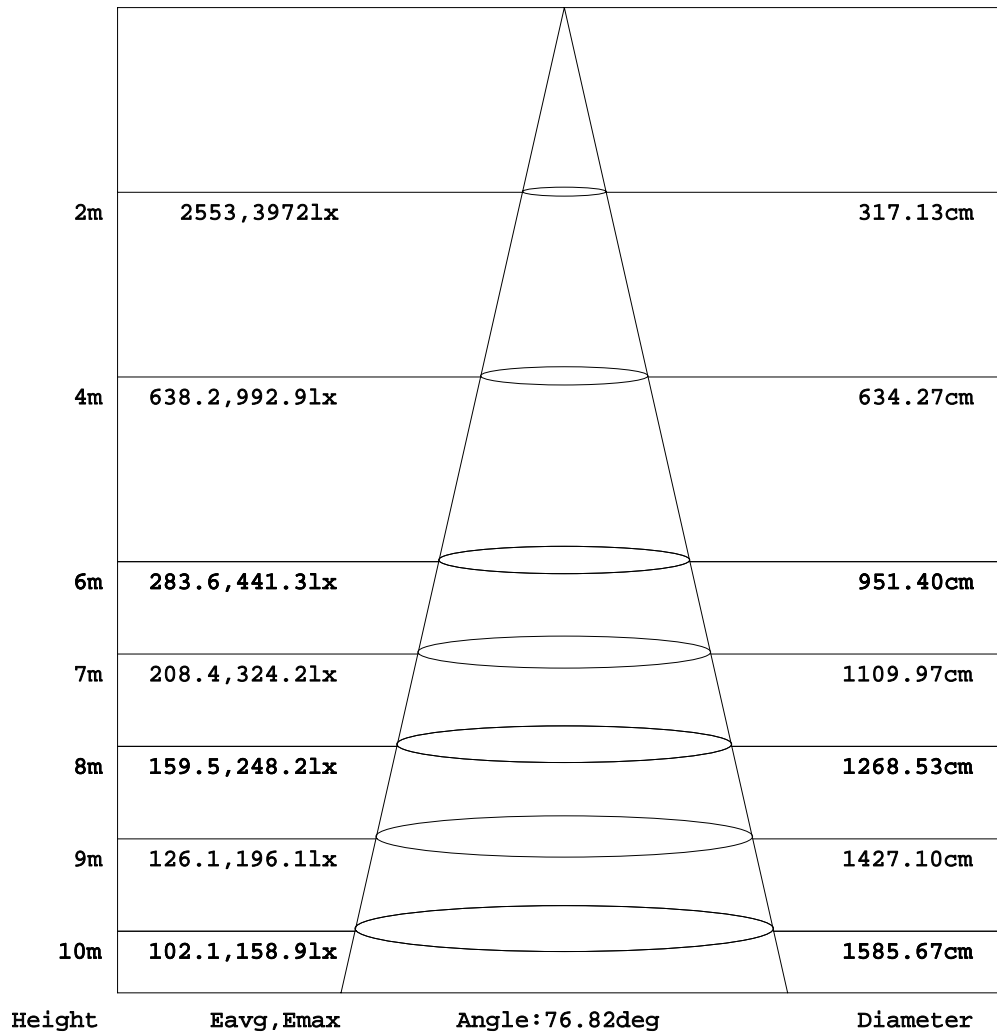
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.633m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Flux out:21036 lm



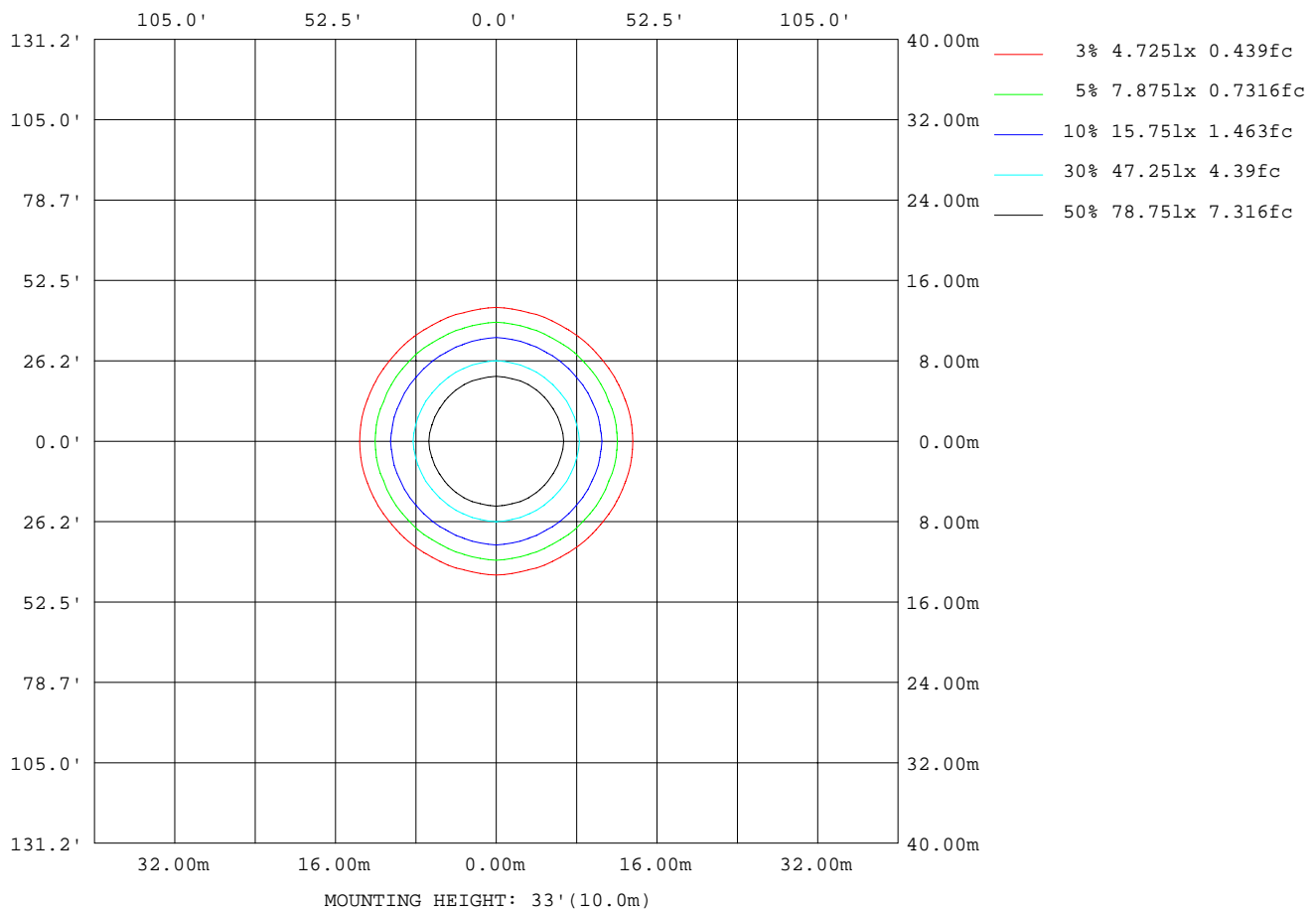
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240Woh-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

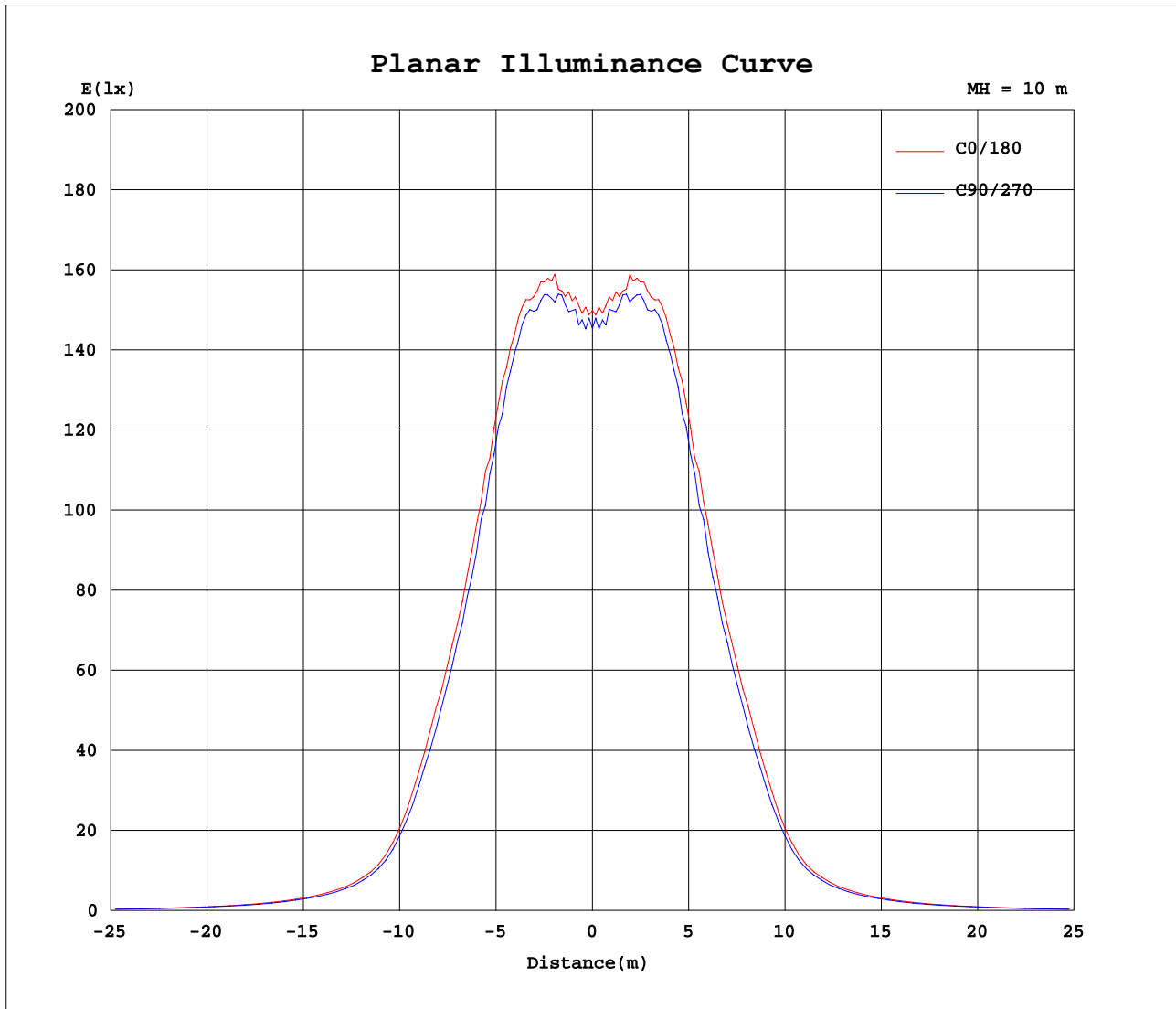
AvgL	cd/m2
L_0~180 (65) av	21499
L_0~180 (75) av	12285
L_0~180 (85) av	10921
L_90~270 (65) av	20449
L_90~270 (75) av	12035
L_90~270 (85) av	10648
L_45 (65) av	18468
L_45 (75) av	10177
L_45 (85) av	9791

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-01-02

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: 2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm		
NAME: AOK-oH	TYPE:LED	WEIGHT:6.0KG
SPEC.:AOK-240WoH-3030-90D-PC-ALL	DIM.: $\phi 0.4 \times 0.141M$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.29M$	Shielding Angle:

Table--1

UNIT: $\times 10cd$

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481
5	1532	1514	1523	1513	1533	1524	1530	1536	1506	1547	1506	1536	1530	1524	1533	1513	1523	1514	1532
10	1606	1607	1629	1635	1647	1630	1646	1652	1646	1642	1646	1652	1646	1630	1647	1635	1629	1607	1606
15	1721	1714	1699	1701	1700	1721	1717	1719	1701	1722	1701	1719	1717	1721	1700	1701	1699	1714	1721
20	1795	1767	1779	1781	1761	1770	1770	1761	1758	1797	1758	1761	1770	1770	1761	1781	1779	1767	1795
25	1755	1746	1722	1708	1704	1692	1685	1693	1678	1698	1678	1693	1685	1692	1704	1708	1722	1746	1755
30	1553	1560	1514	1491	1467	1515	1458	1462	1476	1532	1476	1462	1458	1515	1467	1491	1514	1560	1553
35	1287	1254	1251	1221	1220	1212	1186	1214	1196	1243	1196	1214	1186	1212	1220	1221	1251	1254	1287
40	997	967	945	920	887	892	872	893	885	920	885	893	872	892	887	920	945	967	997
45	574	556	528	511	493	499	476	494	496	537	496	494	476	499	493	511	528	556	574
50	309	302	289	289	278	280	267	275	275	290	275	275	267	280	278	289	289	302	309
55	200	198	195	189	183	184	180	183	185	189	185	183	180	184	183	189	195	198	200
60	137	134	130	126	123	125	123	125	125	130	125	125	123	125	123	126	130	134	137
65	90.9	87.6	82.4	81.2	78.0	78.7	80.1	81.5	82.7	86.4	82.7	81.5	80.1	78.7	78.0	81.2	82.4	87.6	90.9
70	56.1	52.2	49.5	48.7	46.0	47.2	48.4	49.8	49.4	53.0	49.4	49.8	48.4	47.2	46.0	48.7	49.5	52.2	56.1
75	31.8	30.5	28.6	27.4	26.2	26.8	27.9	28.7	29.3	31.2	29.3	28.7	27.9	26.8	26.2	27.4	28.6	30.5	31.8
80	17.3	16.6	15.6	15.0	14.6	14.7	15.0	15.6	15.9	16.9	15.9	15.6	15.0	14.7	14.6	15.0	15.6	16.6	17.3
85	9.52	9.29	8.94	8.74	8.52	8.57	8.55	8.85	8.89	9.28	8.89	8.85	8.55	8.57	8.52	8.74	8.94	9.29	9.52
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: 2018-01-02

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:219.8V I:1.142A P:237.1W PF:0.9798 Freq:49.99Hz Lamp Flux:28823.3x1 lm																	
NAME: AOK-oH									TYPE:LED						WEIGHT:6.0KG		
SPEC.:AOK-240WoH-3030-90D-PC-ALL									DIM.: ϕ 0.4*0.141M						SERIAL No.:1		
MFR.: AOK									SUR.: ϕ 0.29M						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	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481	1481		
5	1514	1523	1513	1533	1524	1530	1536	1506	1547	1506	1536	1530	1524	1533	1513	1523	1514		
10	1607	1629	1635	1647	1630	1646	1652	1646	1642	1646	1652	1646	1630	1647	1635	1629	1607		
15	1714	1699	1701	1700	1721	1717	1719	1701	1722	1701	1719	1717	1721	1700	1701	1699	1714		
20	1767	1779	1781	1761	1770	1770	1761	1758	1797	1758	1761	1770	1770	1761	1781	1779	1767		
25	1746	1722	1708	1704	1692	1685	1693	1678	1698	1678	1693	1685	1692	1704	1708	1722	1746		
30	1560	1514	1491	1467	1515	1458	1462	1476	1532	1476	1462	1458	1515	1467	1491	1514	1560		
35	1254	1251	1221	1220	1212	1186	1214	1196	1243	1196	1214	1186	1212	1220	1221	1251	1254		
40	967	945	920	887	892	872	893	885	920	885	893	872	892	887	920	945	967		
45	556	528	511	493	499	476	494	496	537	496	494	476	499	493	511	528	556		
50	302	289	289	278	280	267	275	275	290	275	275	267	280	278	289	289	302		
55	198	195	189	183	184	180	183	185	189	185	183	180	184	183	189	195	198		
60	134	130	126	123	125	123	125	125	130	125	125	123	125	123	126	130	134		
65	87.6	82.4	81.2	78.0	78.7	80.1	81.5	82.7	86.4	82.7	81.5	80.1	78.7	78.0	81.2	82.4	87.6		
70	52.2	49.5	48.7	46.0	47.2	48.4	49.8	49.4	53.0	49.4	49.8	48.4	47.2	46.0	48.7	49.5	52.2		
75	30.5	28.6	27.4	26.2	26.8	27.9	28.7	29.3	31.2	29.3	28.7	27.9	26.8	26.2	27.4	28.6	30.5		
80	16.6	15.6	15.0	14.6	14.7	15.0	15.6	15.9	16.9	15.9	15.6	15.0	14.7	14.6	15.0	15.6	16.6		
85	9.29	8.94	8.74	8.52	8.57	8.55	8.85	8.89	9.28	8.89	8.85	8.55	8.57	8.52	8.74	8.94	9.29		
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:2018-01-02

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: