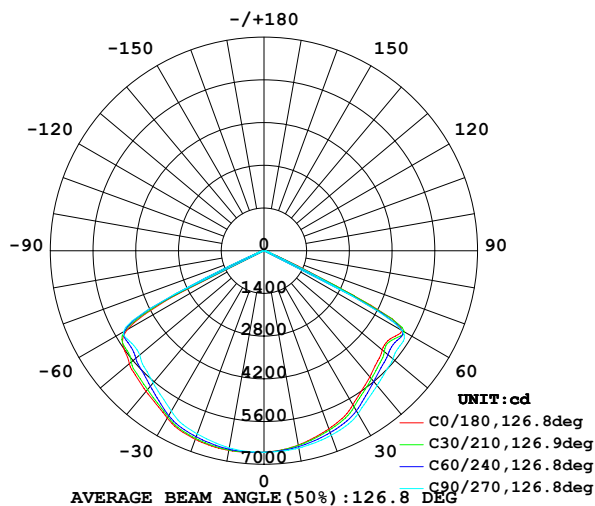


LUMINAIRE PHOTOMETRIC TEST REPORT

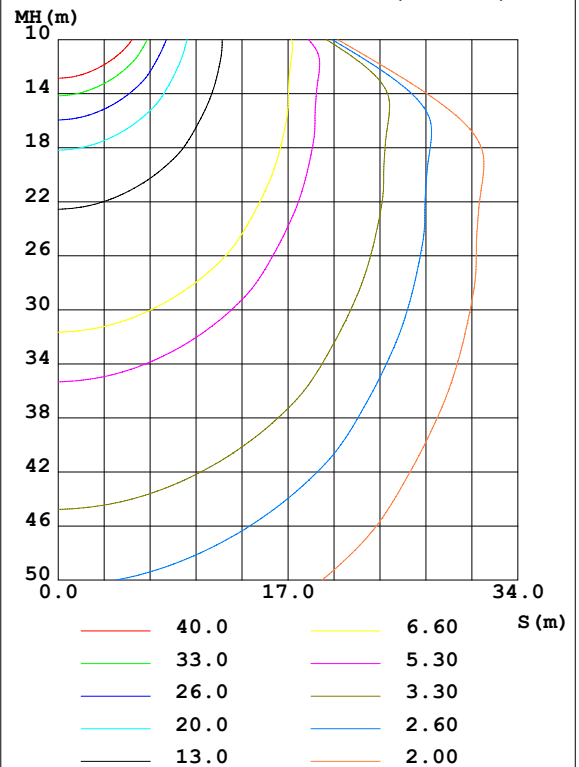
Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150Woh	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150Woh	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.44 lm/W			
MODEL	3030	I _{max} (cd)	6645	S/MH (C0/180)	1.43
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.37
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	20626	η UP,DN (C0-180)	0.1,49.4
NOMINAL FLUX (lm)	20626	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,50.4
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	99.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:OUYANG
 Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.633m [K=1.0022]
 Remarks: 3030

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	6467	6499	6565	6621	6645	6617	6560	6508	0- 10	628.4	628.4	3.05,3.05
20	6211	6300	6437	6534	6578	6517	6390	6270	10- 20	1837	2465	12,12
30	5830	5982	6168	6312	6336	6265	6071	5916	20- 30	2905	5371	26,26
40	5396	5537	5769	5942	6013	5865	5653	5464	30- 40	3698	9068	44,44
50	5060	5228	5518	5713	5761	5579	5318	5090	40- 50	4297	13366	64.8,64.8
60	5225	5277	5215	5169	5181	5278	5315	5269	50- 60	4787	18152	88,88
70	263.9	256.8	254.1	254.3	265.5	279.0	298.4	292.9	60- 70	2236	20388	98.8,98.8
80	59.77	58.71	65.01	72.45	74.94	75.65	71.71	65.71	70- 80	162.7	20551	99.6,99.6
90	0.5556	0.5283	0.5168	0.5296	0.3517	0.3724	0.4053	0.3731	80- 90	21.10	20572	99.7,99.7
100	1.668	1.788	1.857	1.838	0.9177	0.8326	0.8199	0.8323	90-100	0.7370	20572	99.7,99.7
110	5.961	6.089	6.121	5.981	4.525	4.372	4.338	4.415	100-110	3.257	20576	99.8,99.8
120	10.54	10.46	10.24	9.938	8.452	8.493	8.713	8.927	110-120	7.365	20583	99.8,99.8
130	13.32	13.09	12.68	12.32	11.01	11.18	11.63	11.93	120-130	9.796	20593	99.8,99.8
140	14.82	14.54	14.09	13.69	13.20	13.51	14.07	14.39	130-140	10.26	20603	99.9,99.9
150	15.75	15.54	15.18	14.82	14.22	14.48	14.96	15.30	140-150	9.109	20612	99.9,99.9
160	16.90	16.76	16.53	16.28	15.60	15.78	16.12	16.38	150-160	7.220	20619	100,100
170	17.92	17.86	17.77	17.63	17.17	17.24	17.44	17.61	160-170	4.793	20624	100,100
180	17.92	17.92	17.97	18.01	17.93	17.92	17.97	18.00	170-180	1.697	20626	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

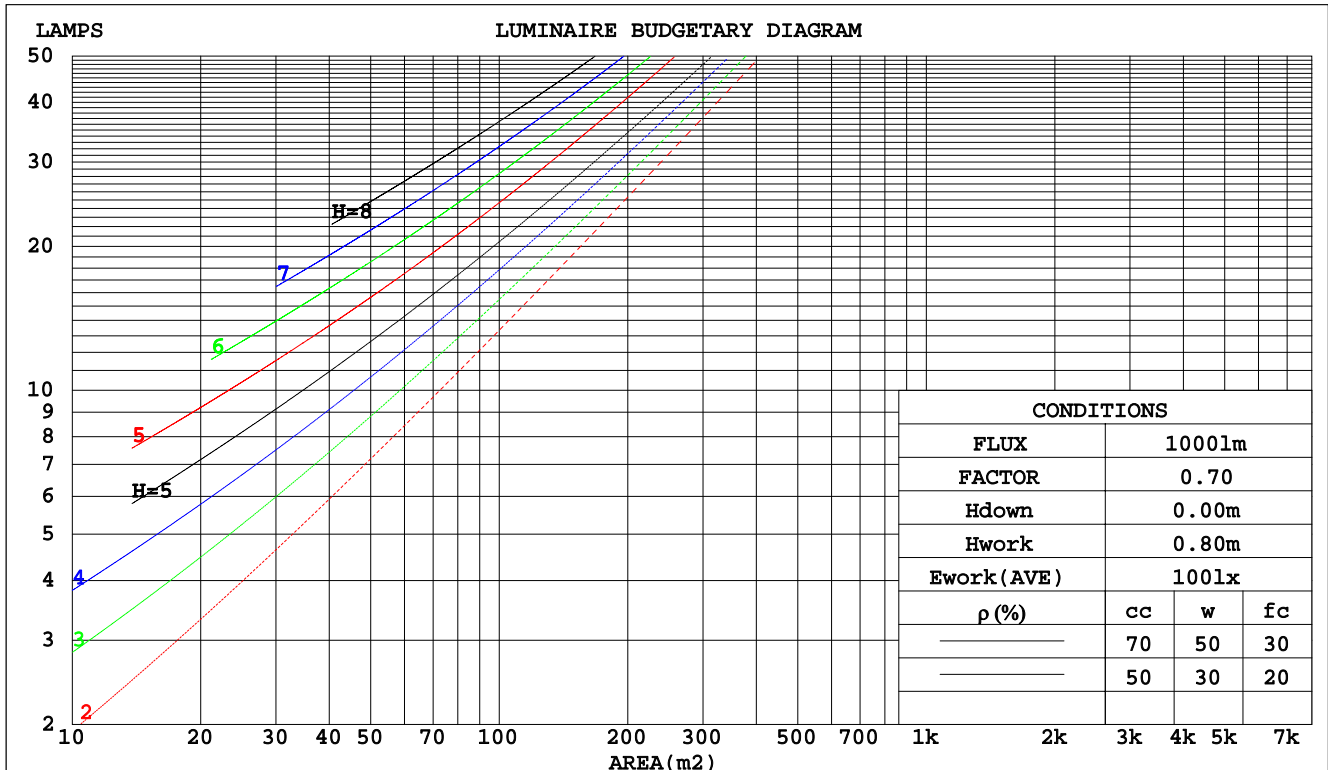
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:OUYANG
 Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.633m [K=1.0022]
 Remarks: 3030

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION 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	.99	1.04	1.00	.97	.00	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.85	.81	.77	.82	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.68	.77	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.72	.64	.57	.71	.63	.57	.69	.62	.56	.66	.60	.55	.64	.59	.55	.53
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.51	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:OUYANG
 Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.633m [K=1.0022]
 Remarks: 3030

WEC AND CCEC

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: ϕ 0.248*0.138m	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16m	PROTECTION 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	.266	.151	.048	.259	.148	.047	.246	.141	.045	.234	.135	.043	.223	.129	.042		
2.0	.264	.145	.044	.258	.142	.044	.246	.137	.043	.236	.132	.041	.226	.128	.040		
3.0	.253	.134	.040	.247	.132	.040	.237	.128	.039	.227	.125	.038	.219	.121	.037		
4.0	.239	.124	.036	.234	.122	.036	.225	.119	.036	.216	.116	.035	.208	.113	.034		
5.0	.224	.114	.033	.220	.113	.033	.211	.110	.032	.204	.108	.032	.197	.105	.032		
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.185	.098	.029		
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027		
8.0	.185	.090	.025	.181	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.080	.023	.156	.079	.023		
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.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	.192	.192	.192	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.179	.159	.140	.153	.136	.120	.105	.094	.083	.060	.054	.048	.019	.017	.016	
2.0	.171	.134	.103	.146	.115	.089	.100	.080	.062	.058	.046	.037	.019	.015	.012	
3.0	.163	.116	.079	.140	.100	.068	.096	.070	.048	.055	.041	.028	.018	.013	.009	
4.0	.156	.103	.062	.134	.089	.054	.092	.062	.038	.053	.036	.022	.017	.012	.007	
5.0	.150	.092	.050	.128	.080	.044	.088	.056	.031	.051	.033	.018	.017	.011	.006	
6.0	.143	.084	.042	.123	.073	.036	.085	.051	.026	.049	.030	.015	.016	.010	.005	
7.0	.137	.077	.036	.118	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.112	.062	.027	.078	.044	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.067	.027	.107	.058	.024	.074	.041	.017	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.025	.103	.054	.021	.071	.038	.015	.042	.023	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OUYANG
Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.633m [K=1.0022]
Remarks: 3030

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm											
NAME: AOK-150WoH					TYPE:LED			WEIGHT:2.9KG			
SPEC.:AOK-150WoH					DIM.: ϕ 0.248*0.138m			SERIAL No.:1			
MFR.: AOK					SUR.: ϕ 0.16m			PROTECTION 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	29.7	31.1	29.9	31.4	31.6	29.6	31.0	29.8	31.3	31.5	
	3H	29.6	30.9	29.9	31.2	31.4	29.4	30.8	29.7	31.0	31.2
	4H	29.5	30.7	29.8	31.0	31.3	29.3	30.6	29.6	30.8	31.1
	6H	29.4	30.6	29.7	30.8	31.1	29.2	30.4	29.5	30.7	31.0
	8H	29.3	30.5	29.6	30.7	31.0	29.2	30.3	29.5	30.6	30.9
	12H	29.3	30.4	29.6	30.7	31.0	29.1	30.2	29.5	30.5	30.8
4H	2H	29.9	31.2	30.2	31.5	31.7	29.8	31.1	30.1	31.4	31.6
	3H	29.8	30.9	30.2	31.2	31.5	29.7	30.8	30.0	31.1	31.4
	4H	29.7	30.7	30.1	31.1	31.4	29.6	30.6	30.0	30.9	31.3
	6H	29.7	30.5	30.1	30.9	31.3	29.5	30.4	29.9	30.7	31.1
	8H	29.6	30.4	30.0	30.8	31.2	29.5	30.3	29.9	30.7	31.0
	12H	29.6	30.3	30.0	30.7	31.1	29.4	30.2	29.9	30.6	31.0
8H	4H	29.6	30.4	30.0	30.8	31.2	29.5	30.3	29.9	30.6	31.0
	6H	29.5	30.2	30.0	30.6	31.0	29.4	30.1	29.8	30.5	30.9
	8H	29.5	30.1	30.0	30.5	31.0	29.4	29.9	29.8	30.4	30.8
	12H	29.5	30.0	29.9	30.4	30.9	29.3	29.8	29.8	30.3	30.7
12H	4H	29.6	30.3	30.0	30.7	31.1	29.4	30.2	29.9	30.6	31.0
	6H	29.5	30.1	30.0	30.5	31.0	29.4	29.9	29.8	30.4	30.8
	8H	29.5	30.0	29.9	30.4	30.9	29.3	29.8	29.8	30.3	30.7
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 0.7					+ 0.9 / - 0.6					
1.5H	+ 1.6 / - 2.3					+ 1.6 / - 2.6					
2.0H	+ 1.6 / - 3.1					+ 1.4 / - 3.3					

CIE Pub.117 Corrected 20626 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.5)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OUYANG
Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.633m [K=1.0022]
Remarks: 3030

UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION 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	44	36	55	43	36	54	43	36	29
0.80	67	55	48	66	55	48	64	54	47	40
1.00	77	66	59	76	65	59	74	67	58	51
1.25	85	75	68	83	74	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	73	65
2.00	97	89	84	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	86	78
3.00	104	98	93	102	96	92	98	94	90	82
4.00	108	103	99	105	101	97	101	98	94	86
5.00	110	106	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: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OUYANG
Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.633m [K=1.0022]
Remarks: 3030

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION ANGLE:

Conical surface Flux(90deg):

11150 lm

%lum = 54.1%

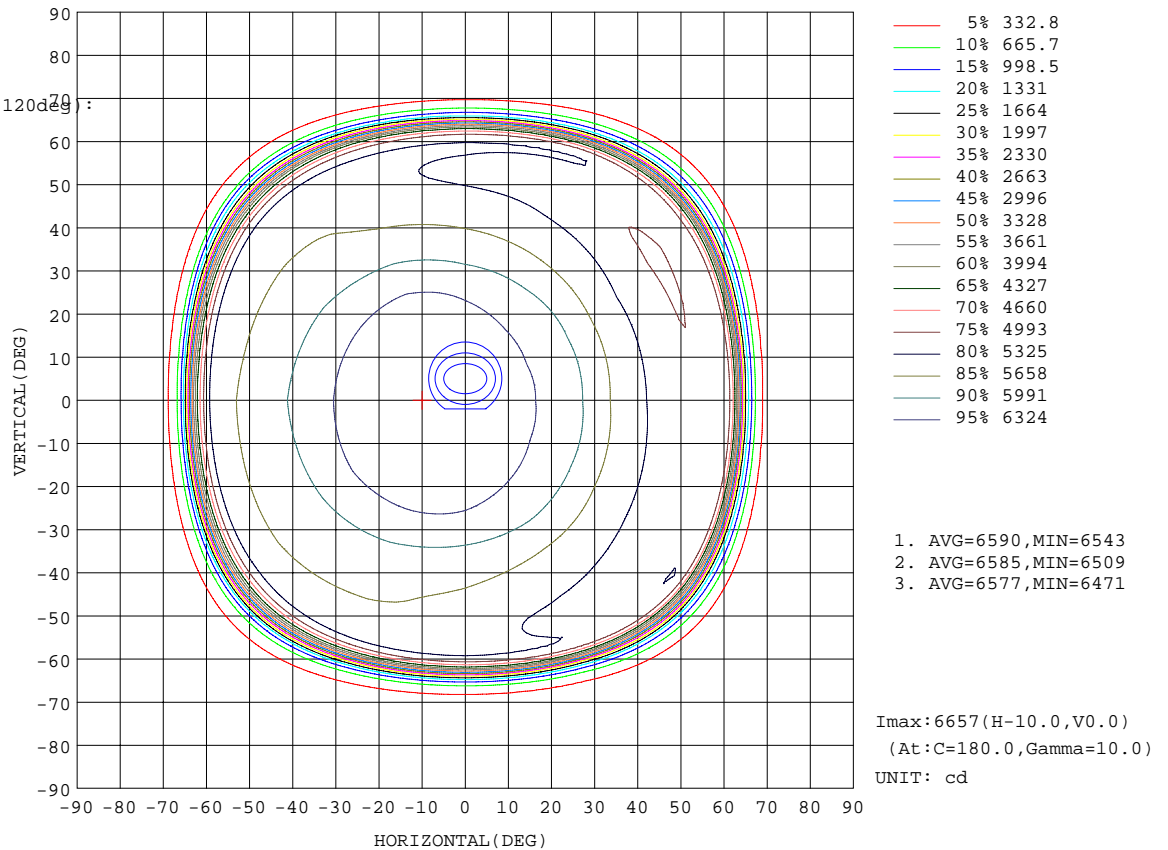
%lamp = 54.1%

Conical surface Flux(120deg):

18152 lm

%lum = 88.0%

%lamp = 88.0%



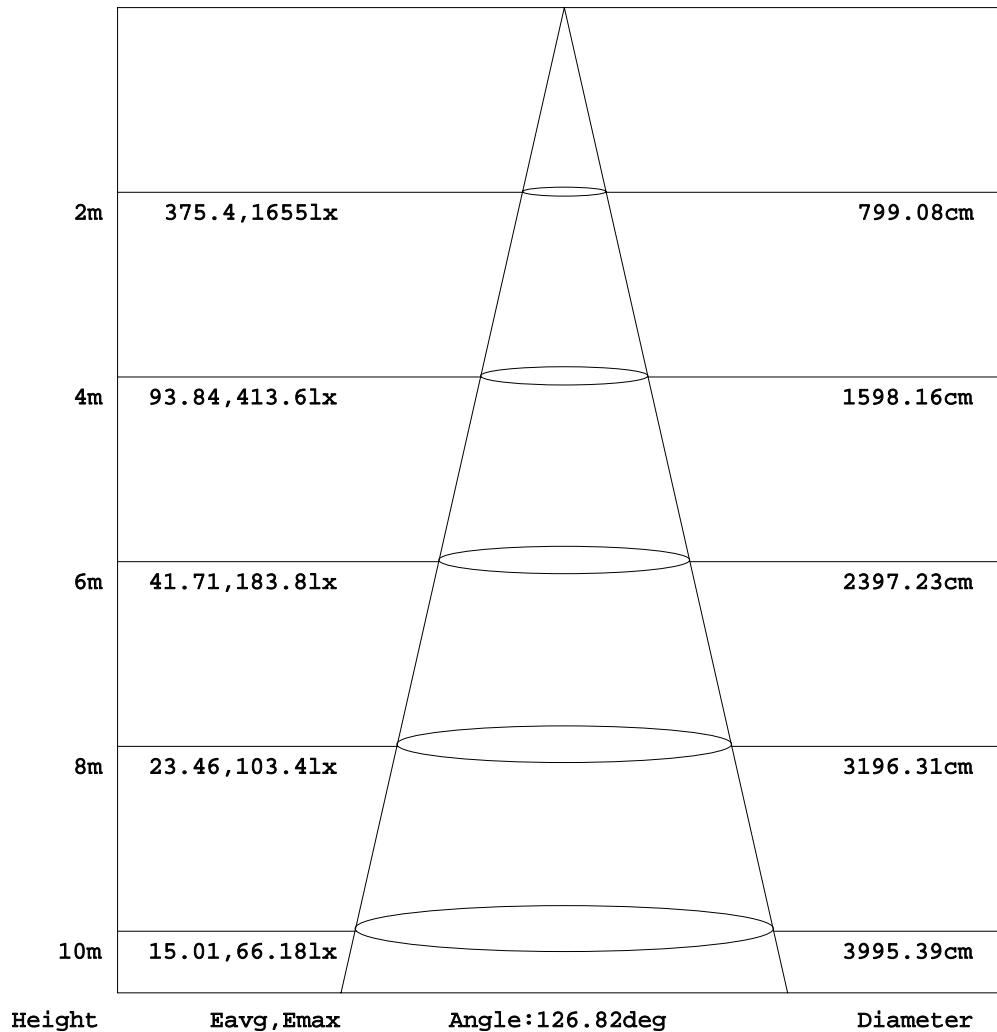
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OUYANG
Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.633m [K=1.0022]
Remarks: 3030

AAI Figure

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION ANGLE:

Flux out:19829 lm



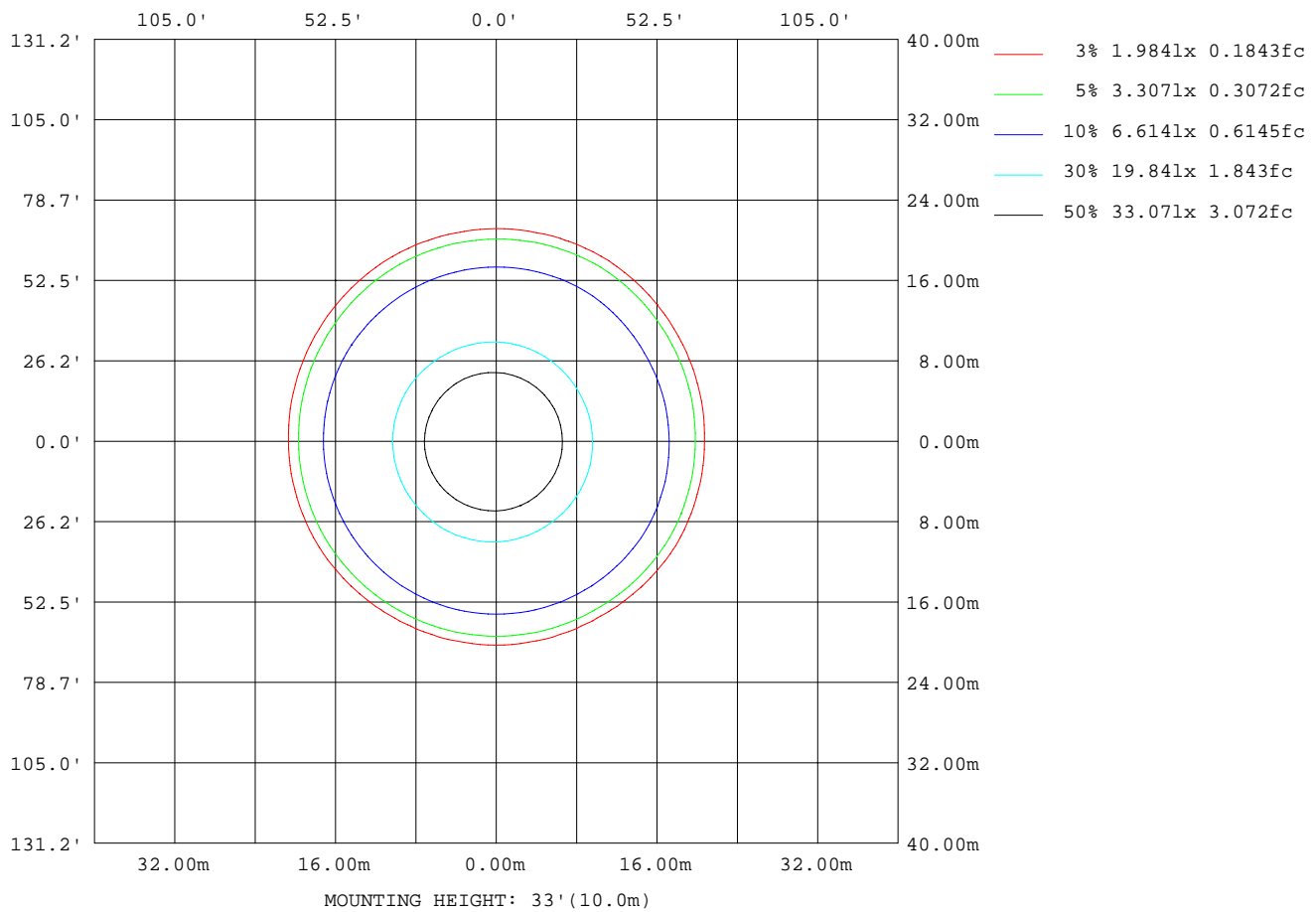
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: OUYANG
 Test Date: 2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.633m [K=1.0022]
 Remarks: 3030

ISOLUX DIAGRAM

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OUYANG
Test Date: 2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.633m [K=1.0022]
Remarks: 3030

LED Avg.L Report

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: $\phi 0.248 \times 0.138\text{m}$	SERIAL No.:1
MFR.: AOK	SUR.: $\phi 0.16\text{m}$	PROTECTION ANGLE:

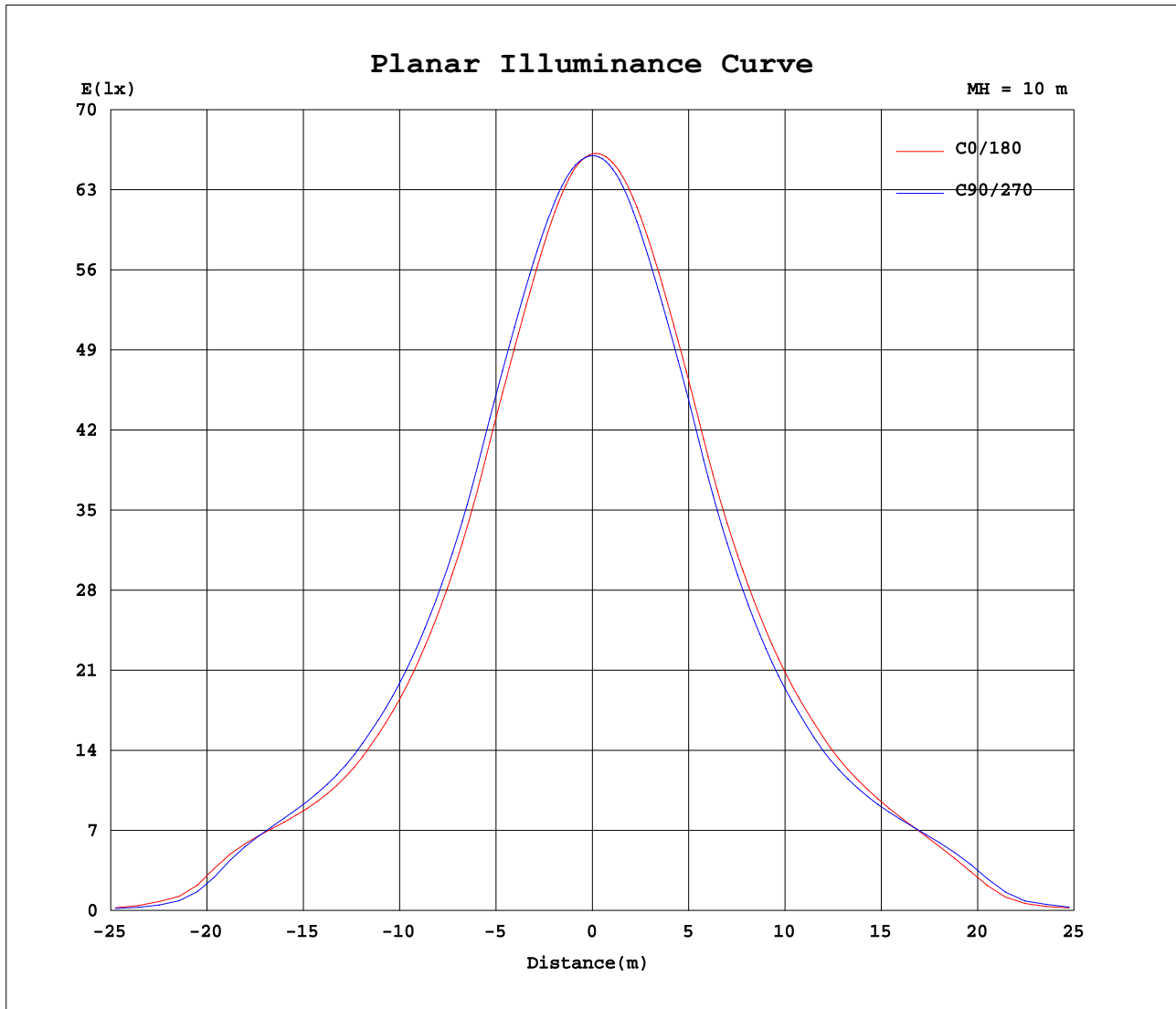
AvgL	cd/m2
L_0~180 (65) av	37949
L_0~180 (75) av	5766
L_0~180 (85) av	1581
L_90~270 (65) av	38870
L_90~270 (75) av	5742
L_90~270 (85) av	1593
L_45 (65) av	38593
L_45 (75) av	5796
L_45 (85) av	1550

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OUYANG
Test Date:2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.633m [K=1.0022]
Remarks: 3030

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OUYANG
Test Date: 2017-11-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.633m [K=1.0022]
Remarks: 3030

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.6964A P:146.9W PF:0.9578 Lamp Flux:20626x1 lm		
NAME: AOK-150WoH	TYPE:LED	WEIGHT:2.9KG
SPEC.:AOK-150WoH	DIM.: ϕ 0.248*0.138m	SERIAL No.:1
MFR.: AOK	SUR.: ϕ 0.16m	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	6602	6602	6602	6602	6602	6602	6602	6602	6602	6602	6602	6602							
5	6557	6560	6574	6594	6615	6624	6630	6623	6613	6596	6581	6566							
10	6467	6478	6520	6565	6607	6636	6645	6630	6604	6560	6524	6492							
15	6346	6373	6440	6509	6567	6613	6626	6601	6556	6480	6420	6375							
20	6211	6257	6344	6437	6506	6561	6578	6546	6489	6390	6301	6239							
25	6065	6127	6229	6340	6425	6487	6500	6463	6399	6285	6175	6094							
30	5830	5907	6057	6168	6269	6356	6336	6288	6243	6071	5947	5885							
35	5587	5670	5811	5938	6056	6149	6146	6089	6005	5840	5722	5629							
40	5396	5479	5595	5769	5903	5982	6013	5939	5792	5653	5527	5400							
45	5215	5312	5426	5625	5774	5845	5883	5816	5623	5489	5342	5208							
50	5060	5152	5304	5518	5672	5754	5761	5674	5484	5318	5140	5040							
55	5044	5112	5240	5437	5532	5579	5604	5551	5378	5292	5120	5000							
60	5225	5319	5234	5215	5183	5155	5181	5273	5283	5315	5346	5191							
65	1651	1455	1157	1146	1166	1349	1556	1800	2124	2139	2156	1834							
70	264	264	250	254	250	259	266	271	287	298	308	278							
75	147	144	144	145	148	154	152	151	154	152	152	152							
80	59.8	57.6	59.8	65.0	68.6	76.3	74.9	74.8	76.5	71.7	67.4	64.0							
85	10.0	10.4	9.14	12.0	13.5	15.6	17.5	17.7	17.1	15.8	14.3	10.6							
90	0.56	0.52	0.54	0.52	0.54	0.52	0.35	0.39	0.35	0.41	0.36	0.39							
95	0.69	0.69	0.73	0.72	0.74	0.70	0.42	0.42	0.41	0.44	0.43	0.44							
100	1.67	1.72	1.85	1.86	1.90	1.78	0.92	0.87	0.79	0.82	0.81	0.86							
105	3.57	3.63	3.80	3.79	3.85	3.63	2.45	2.38	2.21	2.23	2.22	2.31							
110	5.96	6.02	6.16	6.12	6.11	5.85	4.52	4.46	4.28	4.34	4.36	4.47							
115	8.43	8.44	8.47	8.37	8.27	8.00	6.68	6.66	6.56	6.68	6.74	6.88							
120	10.5	10.5	10.4	10.2	10.1	9.79	8.45	8.50	8.49	8.71	8.84	9.02							
125	12.2	12.1	11.9	11.7	11.5	11.2	9.87	9.97	10.1	10.4	10.6	10.8							
130	13.3	13.2	13.0	12.7	12.4	12.2	11.0	11.1	11.2	11.6	11.8	12.0							
135	14.3	14.2	13.9	13.6	13.4	13.1	12.5	12.6	12.8	13.2	13.4	13.6							
140	14.8	14.7	14.4	14.1	13.8	13.6	13.2	13.4	13.6	14.1	14.3	14.5							
145	15.3	15.2	14.9	14.6	14.3	14.1	13.7	13.8	14.1	14.5	14.8	14.9							
150	15.8	15.6	15.4	15.2	14.9	14.7	14.2	14.4	14.6	15.0	15.2	15.4							
155	16.3	16.2	16.0	15.8	15.6	15.4	14.9	15.0	15.2	15.5	15.7	15.9							
160	16.9	16.8	16.7	16.5	16.3	16.2	15.6	15.7	15.9	16.1	16.3	16.5							
165	17.5	17.5	17.4	17.2	17.1	17.0	16.4	16.5	16.6	16.8	17.0	17.1							
170	17.9	17.9	17.8	17.8	17.7	17.6	17.2	17.2	17.3	17.4	17.6	17.6							
175	18.0	18.0	18.0	18.0	17.9	17.9	17.7	17.7	17.7	17.8	17.9	17.9							
180	17.9	17.9	17.9	18.0	18.0	18.0	17.9	17.9	17.9	18.0	18.0	18.0							

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