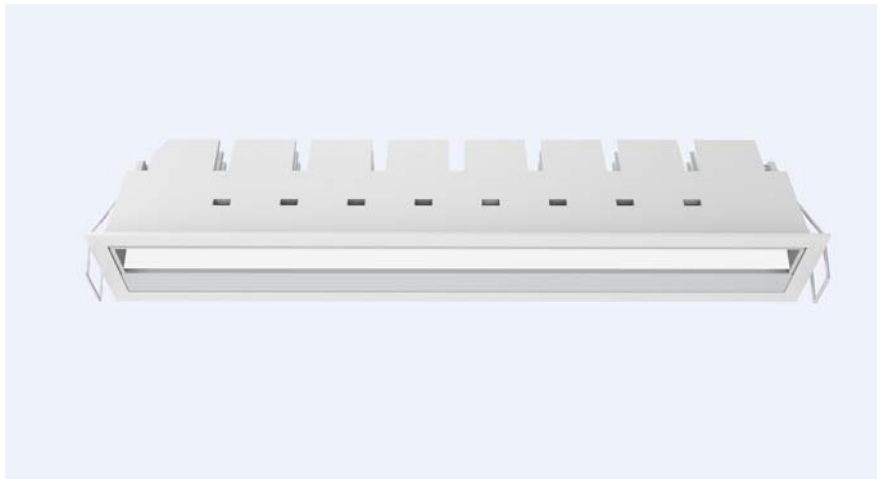


LED Downlight FUSION Series FW10-22W-930



Light Output Ratio:	100.0%	
Luminaire Power:	24.42 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

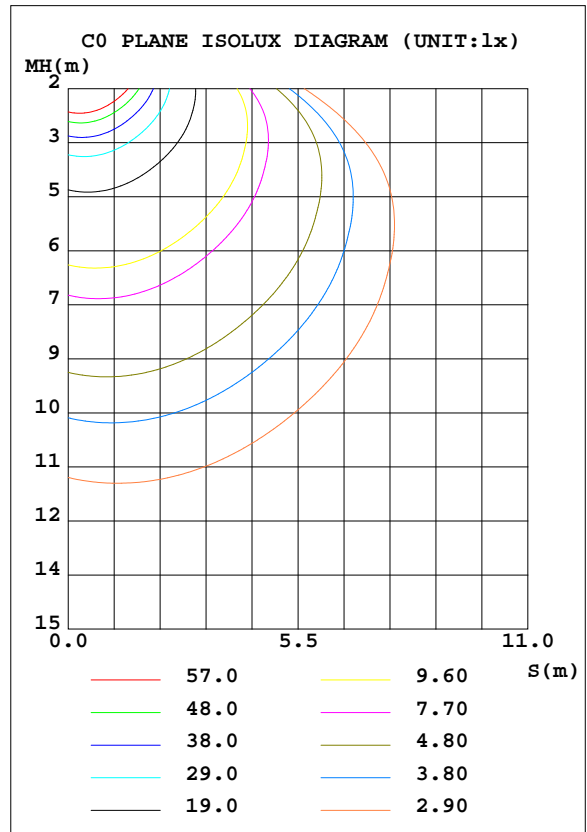
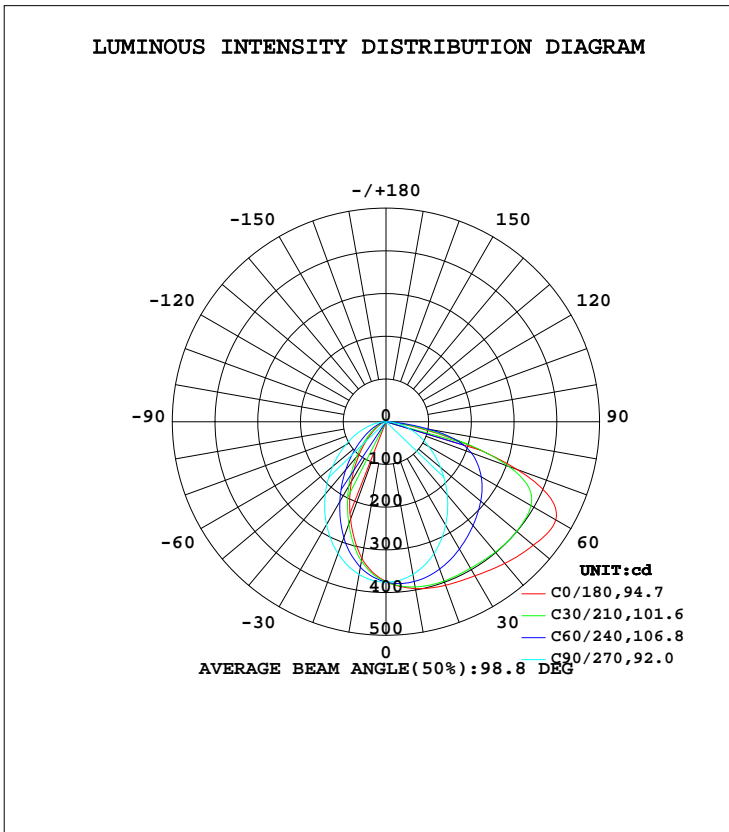
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-06-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	OSRAM-3000K	Imax(cd)	461.1	S/MH(C0/180)	0.78
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1054.2	η UP, DN(C0-180)	0.0,53.2
NOMINAL FLUX(lm)	1054.24	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,46.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	396.5	387.0	362.8	338.4	325.3	336.9	363.0	388.1	0- 10	35.21	35.21	3.34,3.34
20	407.2	383.9	328.5	270.5	243.0	268.2	328.3	384.9	10- 20	97.57	132.8	12.6,12.6
30	416.5	372.7	279.3	193.2	162.0	190.5	278.5	373.4	20- 30	140.8	273.5	25.9,25.9
40	432.7	360.4	223.1	123.7	95.13	121.7	221.4	360.5	30- 40	164.5	438.0	41.5,41.5
50	449.8	347.8	166.9	71.07	48.80	69.69	163.2	346.9	40- 50	174.0	612.0	58.1,58.1
60	458.9	325.4	115.5	36.63	22.47	35.45	109.5	323.0	50- 60	173.9	785.9	74.5,74.5
70	326.0	270.7	70.66	17.18	10.01	16.28	63.57	270.1	60- 70	158.3	944.3	89.6,89.6
80	64.87	90.37	32.18	6.680	4.143	6.292	25.76	96.86	70- 80	93.66	1038	98.5,98.5
90	0.1684	0.4526	0.8309	0.7653	0.5641	0.6450	0.4876	0.2821	80- 90	16.32	1054	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 524.53 lm

%lum = 49.8%  
%lamp = 49.8%

Conical surface Flux(120deg): 785.9 lm

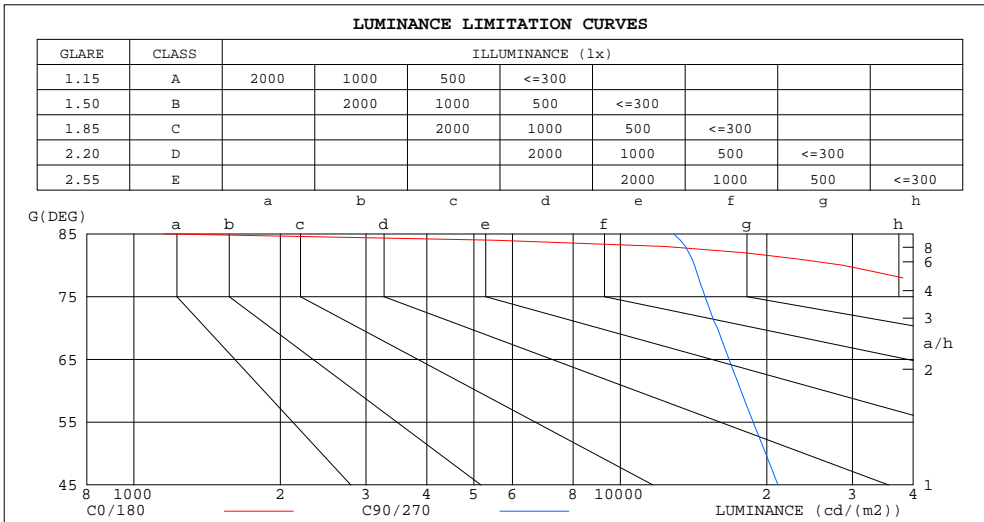
%lum = 74.5%  
%lamp = 74.5%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-06-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1152	12865
80	28627	14202
75	53112	14934
70	73036	15830
65	77210	16727
60	70336	17694
55	61299	18751
50	53623	19894
45	47864	21088

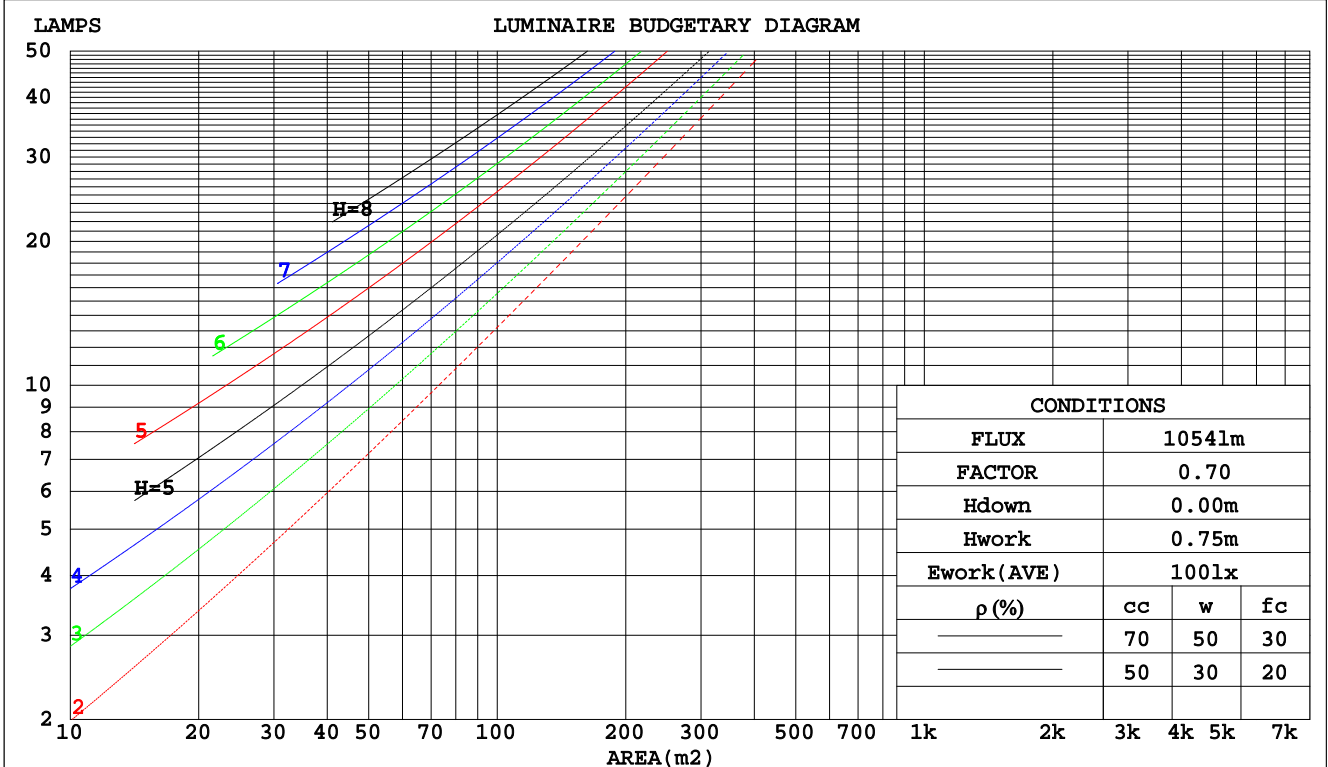
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
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	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.73	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.61	.70	.65	.60	.68	.63	.59	.56
4.0	.69	.59	.52	.67	.59	.52	.65	.57	.51	.62	.56	.51	.60	.54	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.43	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.322	.183	.058	.315	.180	.057	.302	.173	.055	.290	.167	.054	.278	.161	.052	
2.0	.304	.167	.051	.298	.164	.051	.286	.159	.049	.275	.154	.048	.265	.150	.047	
3.0	.280	.149	.045	.275	.147	.044	.264	.143	.044	.255	.139	.043	.246	.136	.042	
4.0	.257	.134	.039	.253	.132	.039	.243	.129	.039	.235	.126	.038	.227	.123	.037	
5.0	.237	.121	.035	.233	.119	.035	.224	.117	.034	.217	.114	.034	.209	.112	.034	
6.0	.219	.110	.031	.215	.109	.031	.208	.106	.031	.201	.104	.031	.194	.102	.030	
7.0	.203	.100	.028	.200	.099	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.175	.088	.026	.169	.087	.025	
9.0	.177	.085	.024	.174	.085	.024	.169	.083	.024	.164	.082	.023	.159	.081	.023	
10.0	.166	.080	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.097	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.085	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	29.9	31.5	30.2	31.7	31.9	25.3	26.9	25.6	27.1	27.3
3H	32.4	33.9	32.7	34.1	34.4	26.8	28.3	27.1	28.5	28.8
4H	33.0	34.4	33.4	34.7	34.9	27.4	28.8	27.8	29.1	29.3
6H	33.2	34.5	33.5	34.8	35.1	27.9	29.2	28.2	29.5	29.7
8H	33.2	34.4	33.5	34.7	35.0	28.0	29.3	28.4	29.6	29.9
12H	33.1	34.3	33.5	34.6	35.0	28.1	29.3	28.4	29.6	29.9
4H 2H	30.5	31.8	30.8	32.1	32.4	27.4	28.8	27.7	29.1	29.3
3H	33.2	34.4	33.5	34.7	35.0	29.3	30.5	29.6	30.8	31.1
4H	33.9	35.0	34.3	35.3	35.7	30.1	31.2	30.4	31.5	31.8
6H	34.1	35.1	34.5	35.5	35.8	30.7	31.7	31.1	32.0	32.4
8H	34.1	35.1	34.5	35.4	35.8	30.9	31.8	31.3	32.2	32.5
12H	34.1	34.9	34.5	35.3	35.7	31.0	31.8	31.4	32.2	32.6
8H 4H	34.1	35.0	34.5	35.4	35.8	31.0	31.9	31.4	32.3	32.7
6H	34.4	35.2	34.9	35.6	36.0	31.8	32.6	32.3	33.0	33.4
8H	34.4	35.1	34.9	35.5	36.0	32.1	32.8	32.6	33.2	33.7
12H	34.4	35.0	34.9	35.4	35.9	32.3	32.9	32.8	33.3	33.8
12H 4H	34.1	34.9	34.5	35.3	35.7	31.0	31.9	31.4	32.3	32.7
6H	34.4	35.1	34.9	35.5	36.0	31.9	32.6	32.3	33.0	33.4
8H	34.5	35.1	35.0	35.5	36.0	32.2	32.8	32.7	33.3	33.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.7				

CIE Pub.117, 1054 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	53	46	39
1.00	74	62	55	73	62	55	71	63	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	69	85	75	68	82	73	67	59
2.00	94	84	78	92	83	77	88	81	75	67
2.50	98	90	83	96	88	82	92	85	80	72
3.00	101	94	88	99	93	87	95	90	85	76
4.00	106	100	95	103	98	93	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

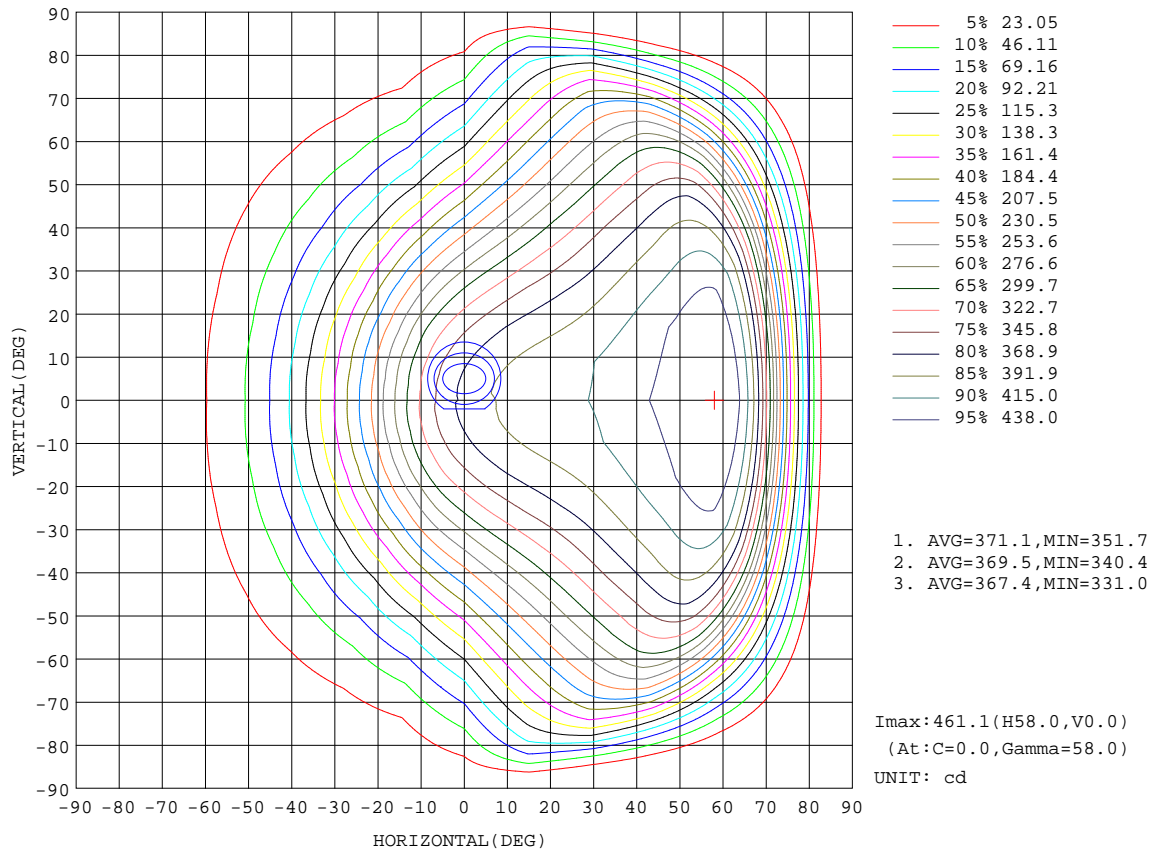
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:



**ISOCANDELA DIAGRAM**

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



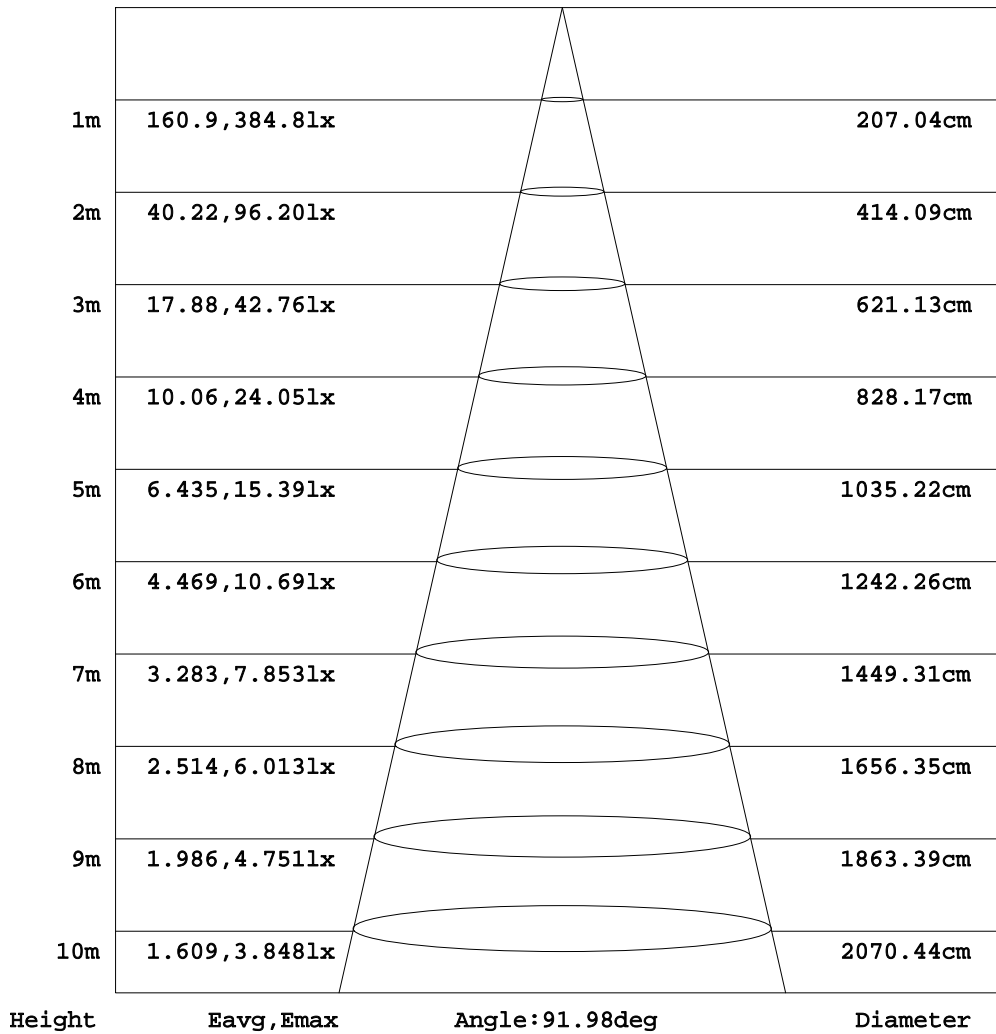
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-06-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Flux out:542.0 lm



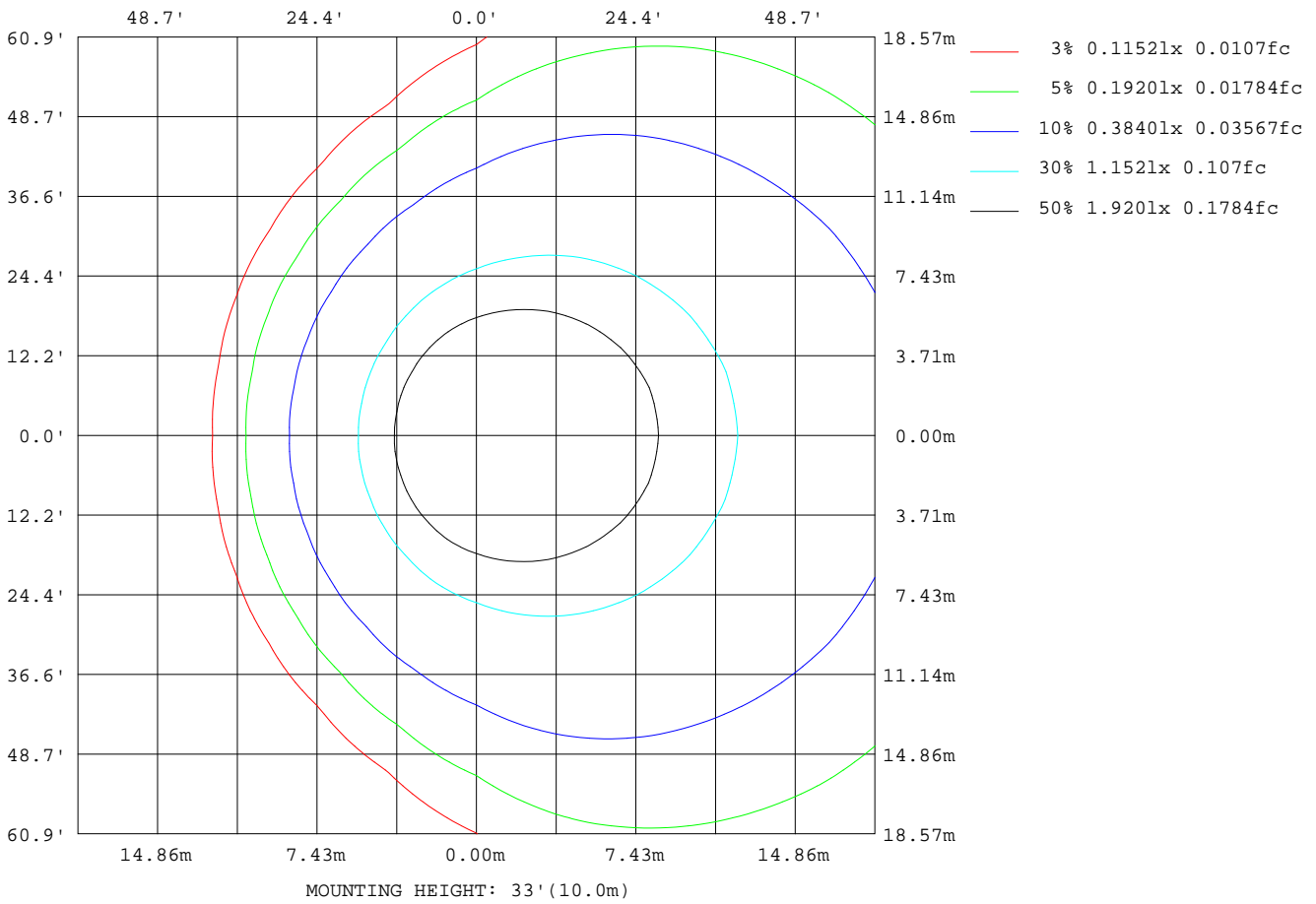
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-06-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

LED Avg.L Report

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

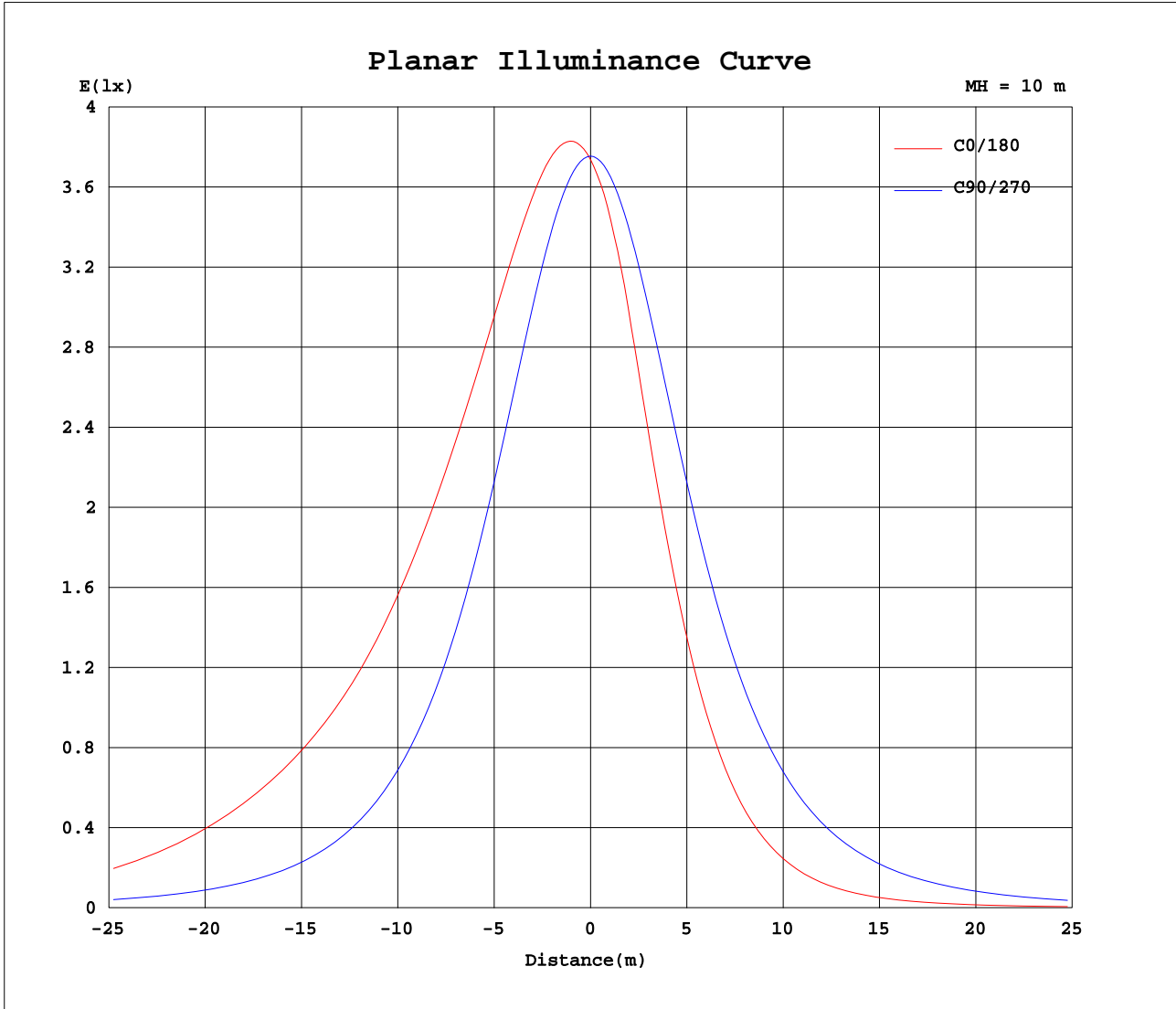
AvgL	cd/m2
L_0~180(65)av	39969
L_0~180(75)av	27530
L_0~180(85)av	1483
L_90~270(65)av	16121
L_90~270(75)av	13920
L_90~270(85)av	10946
L_45(65)av	29929
L_45(75)av	30809
L_45(85)av	8288

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-06-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-06-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C( DEG ) γ ( DEG )	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	374	374	375	375	375	375	375	376	376	376	376	376	374	374	375	375	375	375	375
5	387	387	386	383	380	376	372	368	364	361	358	357	354	355	358	360	364	368	372
10	397	396	393	387	380	372	363	355	346	338	332	328	325	326	332	337	346	354	363
15	403	401	396	387	375	362	348	335	321	308	295	289	285	287	295	306	320	334	348
20	407	405	397	384	367	348	329	310	290	271	255	247	243	245	255	268	289	308	328
25	411	408	396	379	356	331	305	281	254	231	214	205	201	204	214	229	253	279	305
30	416	411	396	373	344	312	279	250	218	193	175	166	162	164	175	191	216	247	278
35	424	417	397	366	330	291	252	217	182	157	139	130	126	129	139	154	180	214	250
40	433	424	398	360	317	270	223	184	148	124	107	98.3	95.1	97.7	107	122	147	180	221
45	442	431	400	355	303	250	195	152	118	95.2	80.4	72.5	69.6	72.0	79.9	93.5	116	148	192
50	450	436	400	348	290	229	167	122	90.3	71.1	58.6	51.5	48.8	51.0	58.5	69.7	88.4	118	163
55	459	443	398	338	275	208	140	94.9	67.3	51.8	41.7	35.8	33.4	35.3	41.5	50.5	65.3	90.9	136
60	459	442	392	325	257	188	115	71.3	48.2	36.6	29.2	24.6	22.5	24.2	29.0	35.4	46.6	67.3	109
65	426	414	370	307	237	167	92.3	51.0	33.6	25.3	20.2	16.8	15.0	16.4	20.0	24.3	32.1	47.2	85.6
70	326	325	306	271	213	144	70.7	34.2	22.4	17.2	13.6	11.3	10.0	11.0	13.4	16.3	21.0	30.9	63.6
75	179	185	188	195	174	119	50.4	21.1	14.3	11.2	8.89	7.44	6.58	7.21	8.71	10.5	13.3	18.5	43.6
80	64.9	67.7	74.3	90.4	104	88.4	32.2	11.6	8.45	6.68	5.40	4.65	4.14	4.48	5.31	6.29	7.71	9.74	25.8
85	1.31	1.81	3.93	13.8	25.6	39.3	14.6	4.91	4.03	3.32	2.69	2.32	2.06	2.23	2.65	3.12	3.77	4.20	10.3
90	0.17	0.28	0.42	0.45	0.51	0.56	0.83	0.67	0.75	0.77	0.77	0.72	0.56	0.61	0.63	0.65	0.58	0.64	0.49

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1148A P:24.42W PF:0.9632 Freq:49.90Hz Lamp Flux:1054.24x1 lm		
NAME: FW10-22W-930	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	376	376	376	376	376														
5	377	381	384	387	389														
10	372	380	388	394	398														
15	362	376	388	397	404														
20	348	368	385	398	407														
25	330	357	380	398	410														
30	311	344	373	398	414														
35	290	330	367	398	419														
40	268	316	360	399	426														
45	246	302	354	400	433														
50	224	287	347	400	438														
55	202	271	337	397	444														
60	181	254	323	391	443														
65	158	234	304	371	416														
70	135	211	270	312	329														
75	111	175	200	199	190														
80	84.5	112	96.9	81.9	70.9														
85	42.7	32.2	17.4	7.66	2.27														
90	0.46	0.32	0.28	0.25	0.22														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-06-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks: