

LED Downlight FUSION Series FF3-7W-930-40D



Light Output Ratio:	100.0%	
Luminaire Power:	8.045 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

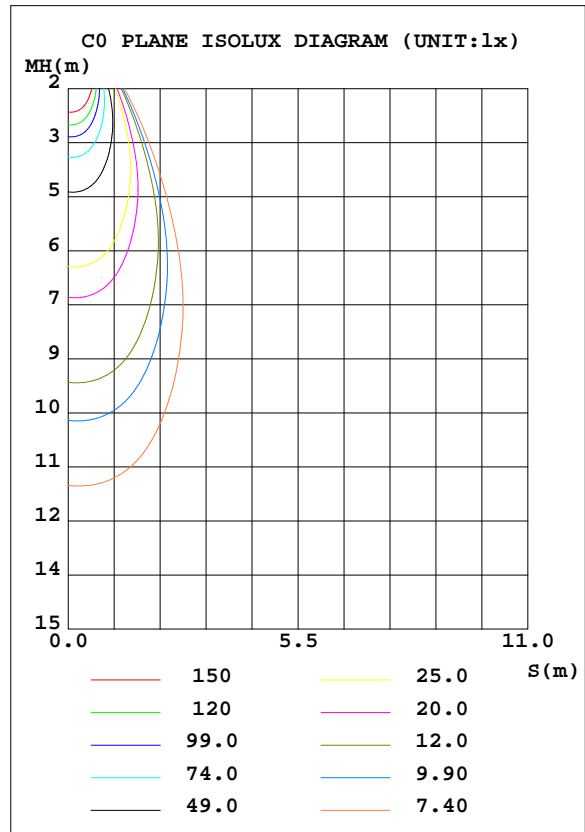
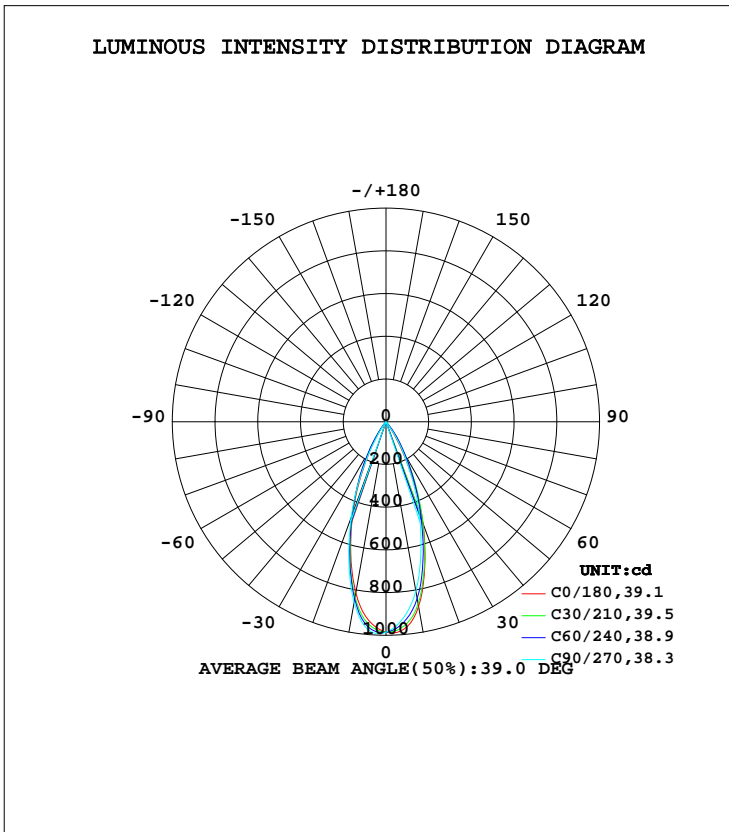
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng yongjian
Test Date: 2018-06-08

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:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:0.0442A P:8.045W PF:0.8115 Freq:49.90Hz Lamp Flux:452.633x1 lm		
NAME: FF3-7W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.26 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	994.2	S/MH(C0/180)	0.61
NOMINAL POWER(W)	8.5	LOR(%)	100.0	S/MH(C90/270)	0.63
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	452.63	η UP, DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	452.633	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.70



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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	878.9	861.8	805.0	804.7	813.9	833.7	859.3	867.4	0- 10	87.41	87.41	19.3,19.3
20	506.6	501.1	455.4	447.1	454.0	455.5	477.9	489.0	10- 20	181.6	269.1	59.4,59.4
30	133.6	205.7	150.0	183.1	133.7	179.4	121.5	191.1	20- 30	137.2	406.3	89.8,89.8
40	4.897	38.56	7.724	37.37	6.482	29.94	5.854	28.86	30- 40	42.76	449.0	99.2,99.2
50	0.4160	0.9567	0.5256	0.9257	0.4651	0.7981	0.3488	0.7666	40- 50	3.271	452.3	99.9,99.9
60	0.1466	0.1074	0.1913	0.1085	0.1506	0.0900	0.1031	0.0870	50- 60	0.2230	452.5	100,100
70	0.0569	0.0285	0.0769	0.0282	0.0349	0.0395	0.0351	0.0370	60- 70	0.0765	452.6	100,100
80	0.0219	0.0154	0.0352	0.0152	0.0066	0.0197	0.0066	0.0174	70- 80	0.0292	452.6	100,100
90	0.0153	0.0154	0.0154	0.0152	0.0066	0.0088	0.0066	0.0087	80- 90	0.0153	452.6	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): 451.79 lm

%lum = 99.8%

%lamp = 99.8%

Conical surface Flux(120deg): 452.51 lm

%lum = 100.0%

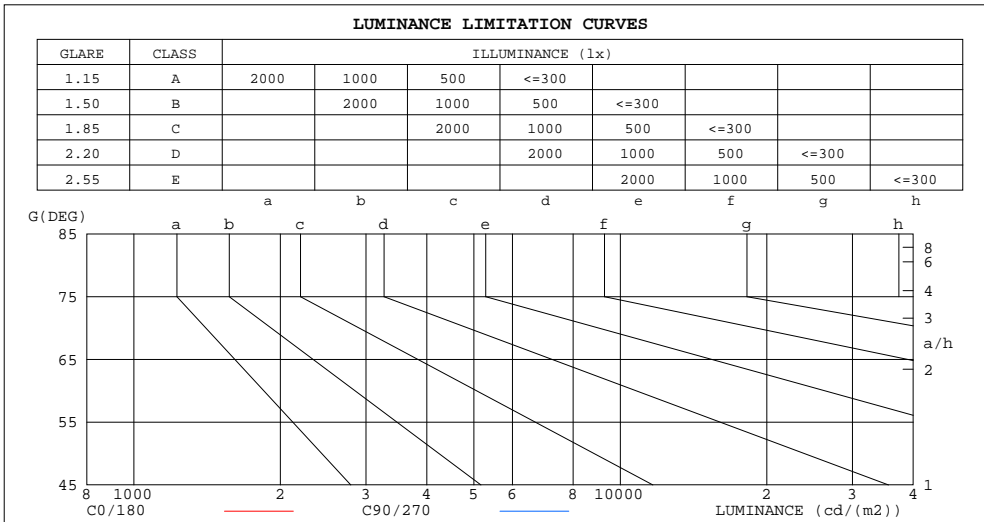
%lamp = 100.0%

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Humidity:52%
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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	40	57
80	29	46
75	31	46
70	38	51
65	49	60
60	66	86
55	95	132
50	147	185
45	239	292

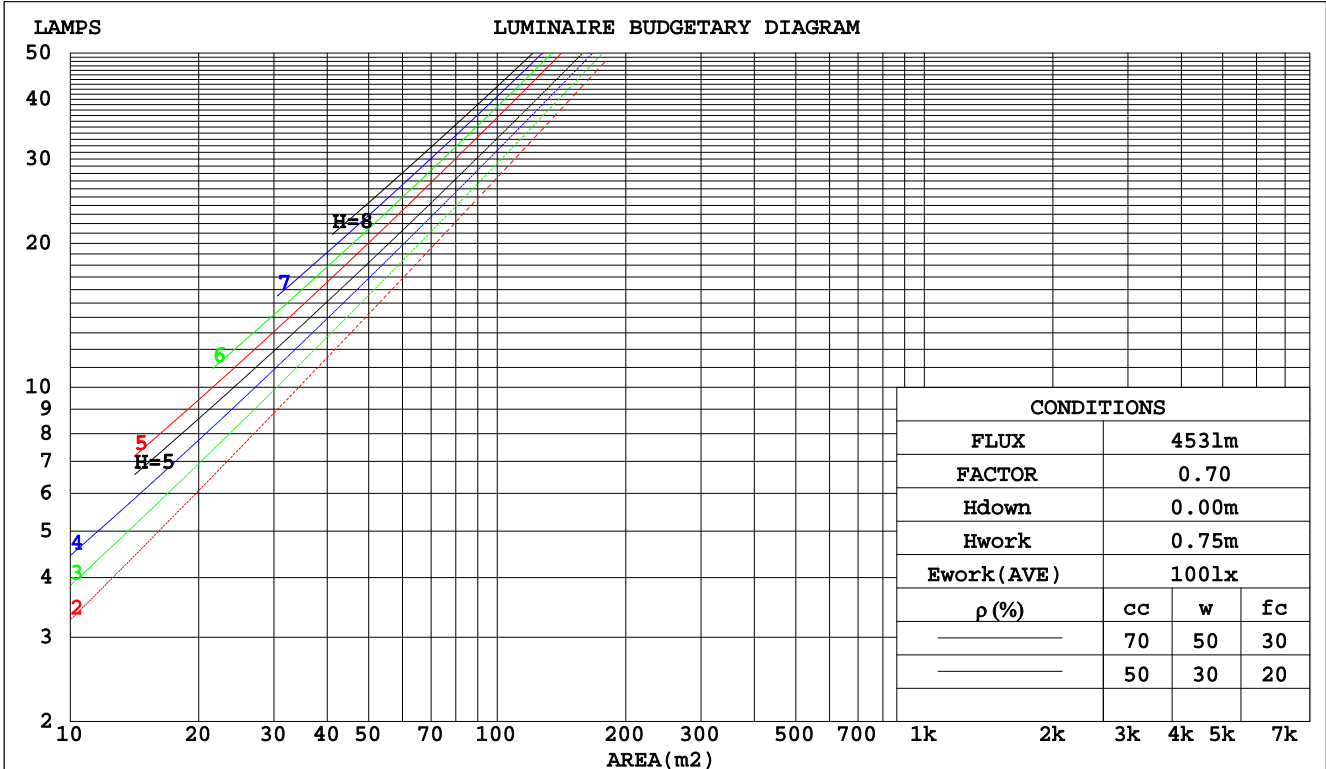
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.86	.92	.88	.85	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.86	.81	.78	.86	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
7.0	.82	.77	.74	.82	.77	.74	.81	.76	.73	.80	.76	.73	.79	.75	.73	.72
8.0	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.73	.70	.76	.72	.70	.68
9.0	.76	.71	.67	.75	.71	.67	.74	.70	.67	.74	.70	.67	.73	.69	.67	.66
10.0	.73	.68	.65	.72	.68	.64	.71	.67	.64	.71	.67	.64	.70	.67	.64	.63



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WEC AND CCEC

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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	.154	.087	.028	.147	.084	.027	.135	.077	.025	.123	.071	.023	.113	.065	.021	
2.0	.145	.079	.024	.139	.077	.024	.129	.072	.022	.119	.067	.021	.111	.063	.020	
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018	
4.0	.130	.067	.020	.126	.066	.019	.118	.063	.019	.111	.060	.018	.105	.057	.017	
5.0	.123	.063	.018	.120	.062	.018	.113	.059	.017	.107	.057	.017	.102	.054	.016	
6.0	.117	.059	.017	.115	.058	.017	.109	.056	.016	.104	.054	.016	.099	.052	.015	
7.0	.112	.056	.016	.110	.055	.016	.105	.053	.015	.100	.051	.015	.096	.050	.015	
8.0	.108	.053	.015	.105	.052	.015	.101	.050	.014	.097	.049	.014	.093	.048	.014	
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.094	.047	.013	.090	.046	.013	
10.0	.099	.048	.013	.098	.047	.013	.094	.046	.013	.091	.045	.013	.088	.044	.013	

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	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005	
8.0	.097	.062	.039	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.034	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.045	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	

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 Remarks:

UGR(Unified Glare Rating) Table

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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	12.8	13.5	13.0	13.7	13.9	14.4	15.2	14.6	15.3	15.5
3H	12.6	13.3	12.8	13.5	13.7	14.2	14.9	14.5	15.1	15.3
4H	12.5	13.2	12.8	13.4	13.6	14.1	14.8	14.4	15.0	15.2
6H	12.4	13.1	12.7	13.3	13.6	14.1	14.7	14.3	14.9	15.2
8H	12.4	13.0	12.7	13.3	13.5	14.0	14.6	14.3	14.9	15.1
12H	12.3	12.9	12.7	13.2	13.5	14.0	14.6	14.3	14.8	15.1
4H 2H	12.5	13.2	12.8	13.4	13.6	14.1	14.8	14.4	15.0	15.2
3H	12.3	12.9	12.7	13.2	13.5	14.0	14.6	14.3	14.8	15.1
4H	12.2	12.8	12.6	13.1	13.4	13.9	14.4	14.2	14.7	15.0
6H	12.1	12.6	12.5	13.0	13.3	13.8	14.2	14.1	14.6	14.9
8H	12.1	12.5	12.5	12.9	13.3	13.7	14.2	14.1	14.5	14.9
12H	12.0	12.4	12.4	12.8	13.2	13.7	14.1	14.1	14.4	14.8
8H 4H	12.1	12.5	12.5	12.9	13.3	13.7	14.2	14.1	14.5	14.9
6H	12.0	12.4	12.4	12.7	13.2	13.6	14.0	14.0	14.4	14.8
8H	11.9	12.3	12.4	12.7	13.1	13.5	13.9	14.0	14.3	14.7
12H	11.9	12.1	12.3	12.6	13.1	13.5	13.8	14.0	14.2	14.7
12H 4H	12.0	12.4	12.4	12.8	13.2	13.7	14.1	14.1	14.4	14.8
6H	11.9	12.3	12.4	12.7	13.1	13.5	13.9	14.0	14.3	14.7
8H	11.9	12.1	12.3	12.6	13.1	13.5	13.8	14.0	14.2	14.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / -19.3					+ 3.0 / -19.8				
1.5H	+ 5.4 / -17.5					+ 5.8 / -18.3				
2.0H	+ 4.2 / - 3.8					+ 4.1 / - 3.5				

CIE Pub.117, 452.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.8)

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UTILIZATION FACTORS TABLE

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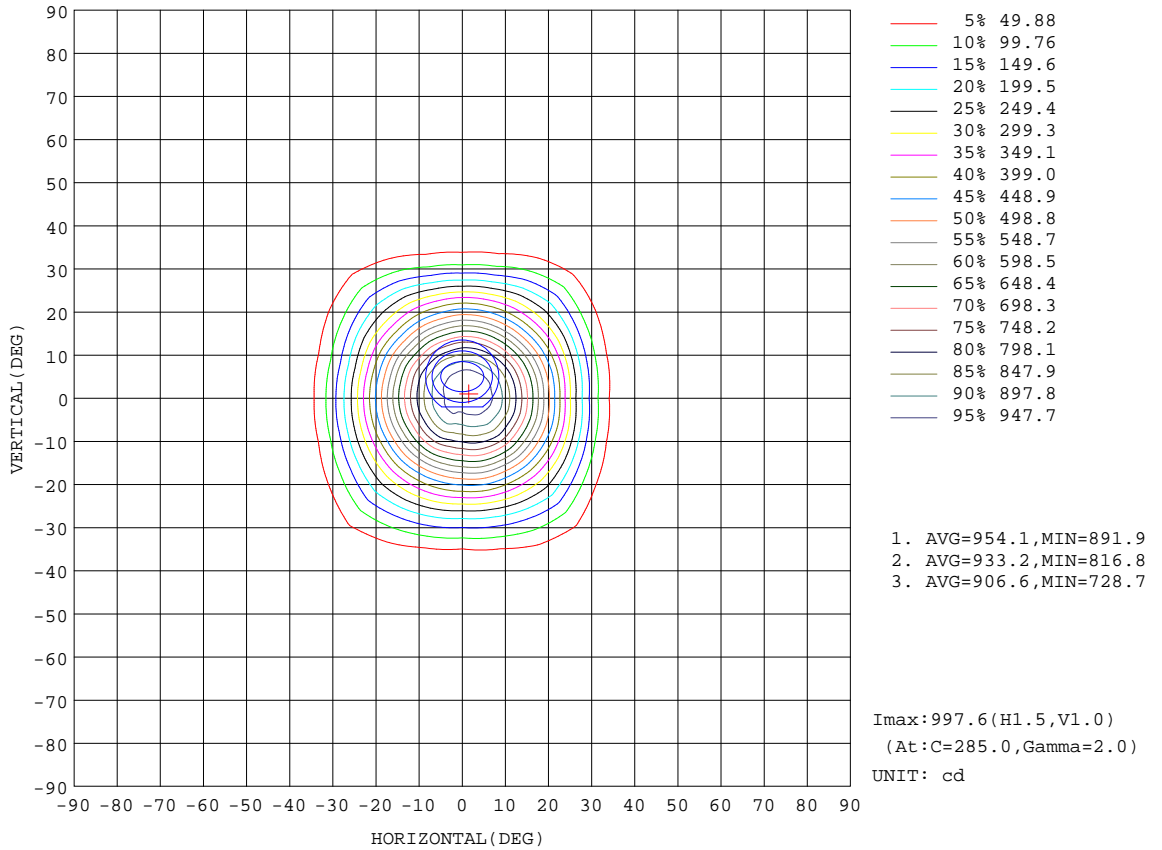
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	85	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	89	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	110	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

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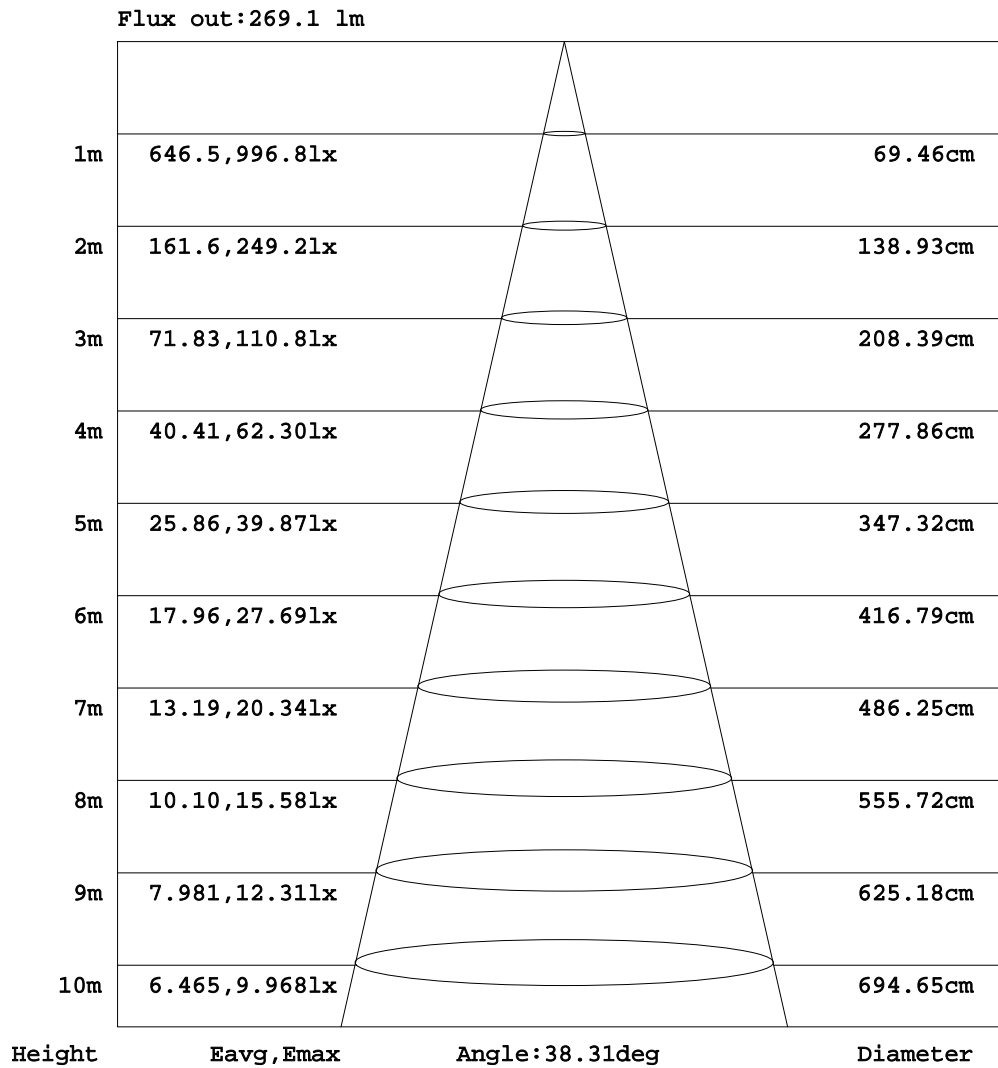


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AAI Figure

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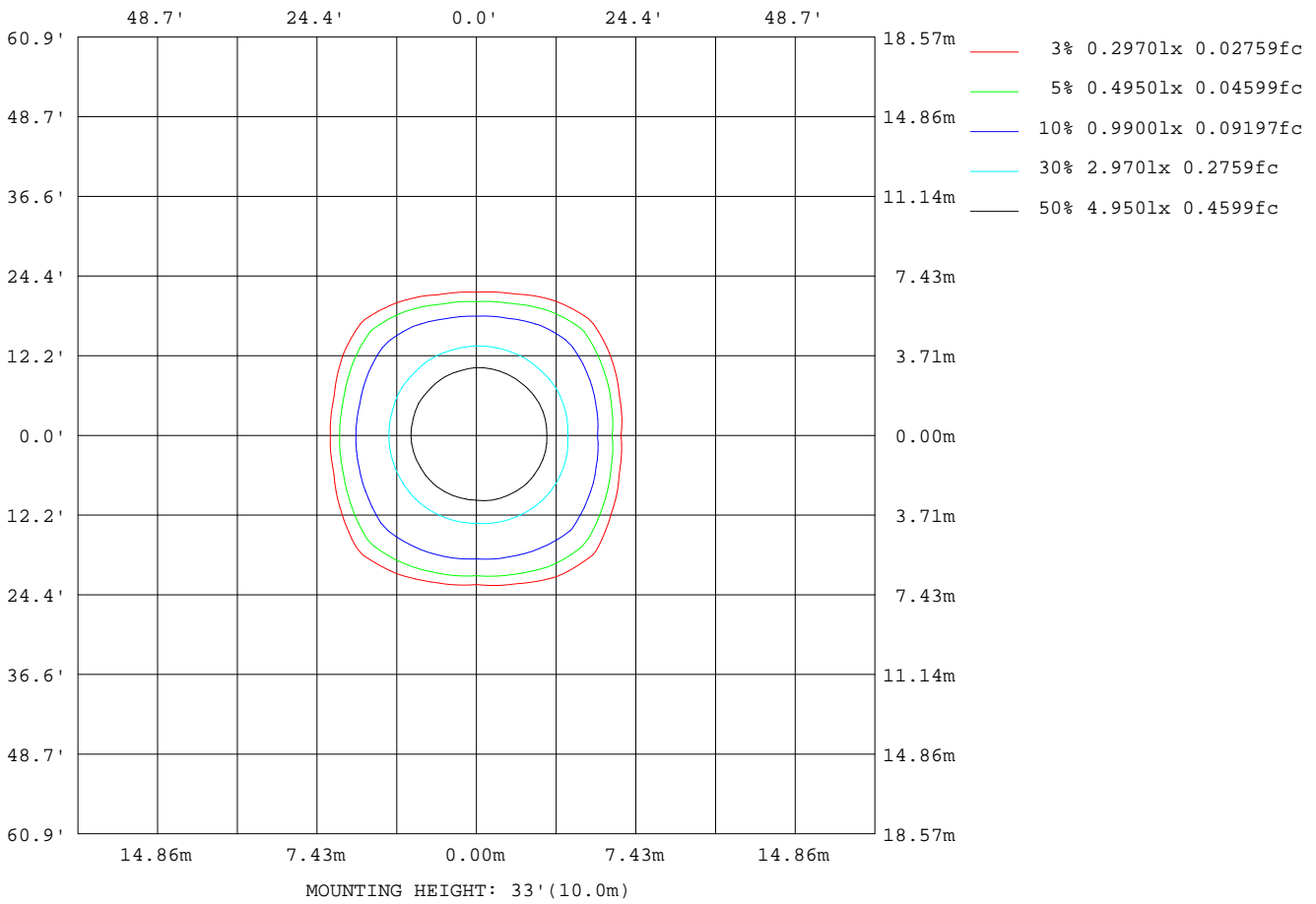
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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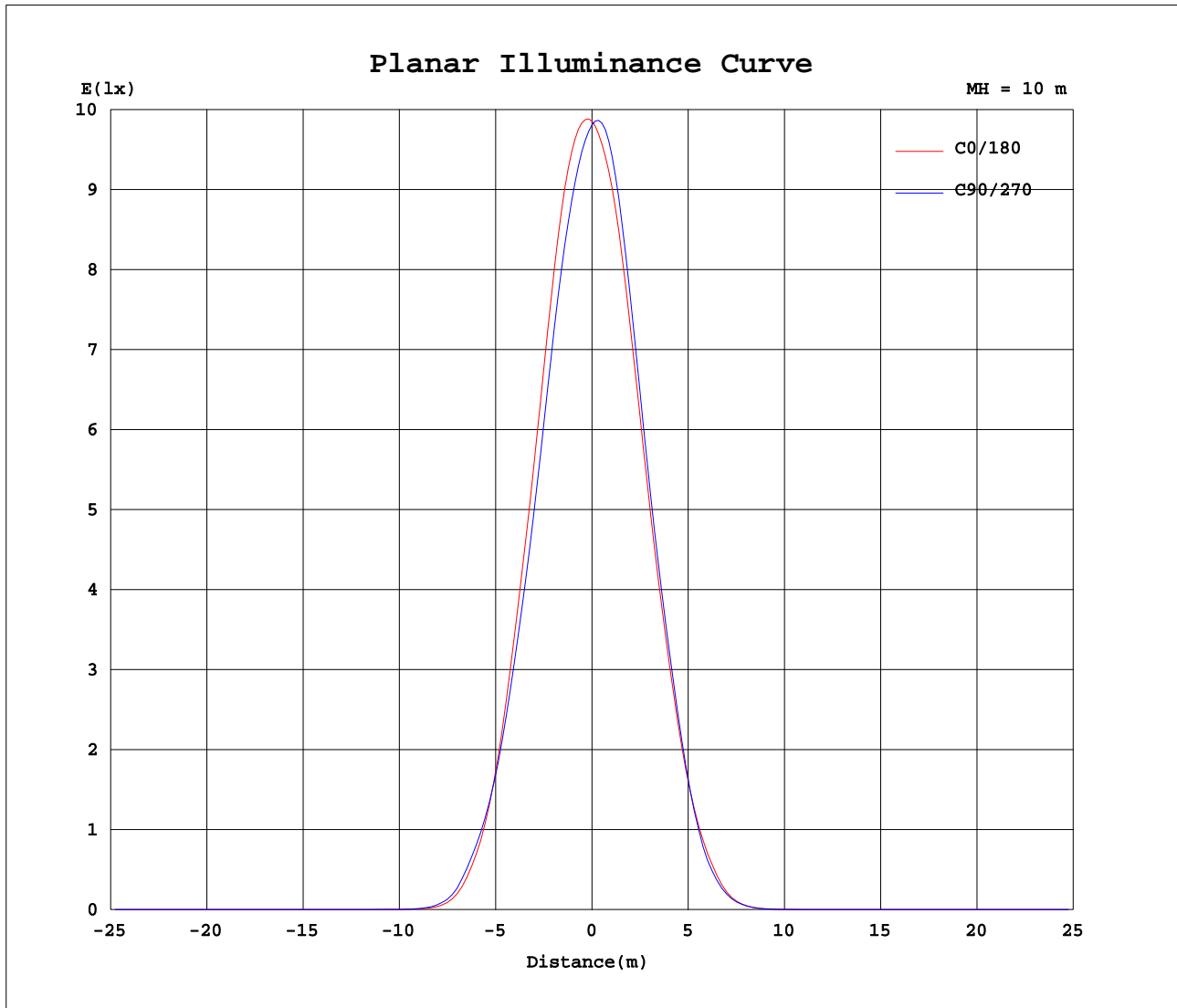
AvgL	cd/m2
L_0~180(65)av	45
L_0~180(75)av	22
L_0~180(85)av	28
L_90~270(65)av	47
L_90~270(75)av	33
L_90~270(85)av	37
L_45(65)av	32
L_45(75)av	19
L_45(85)av	38

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng yongjian
Test Date:2018-06-08

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: 2018-06-08

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:220.5V I:0.0442A P:8.045W PF:0.8115 Freq:49.90Hz Lamp Flux:452.633x1 lm		
NAME: FF3-7W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985
5	974	970	961	956	943	934	924	921	930	929	929	936	934	940	950	955	964	968	976
10	879	879	867	862	841	824	805	802	808	805	800	811	814	819	833	834	845	846	859
15	703	705	695	691	671	655	633	628	629	626	622	635	639	640	649	646	657	658	673
20	507	514	507	501	483	473	455	450	446	447	442	450	454	452	459	456	465	465	478
25	301	320	332	333	320	300	285	292	296	296	286	278	274	276	295	298	303	288	287
30	134	152	179	206	183	162	150	159	171	183	156	138	134	133	157	179	165	131	121
35	35.9	46.0	71.0	102	90.2	65.2	48.9	60.8	80.2	92.6	68.1	44.8	39.9	44.7	66.4	84.6	64.6	40.7	35.6
40	4.90	7.45	15.7	38.6	23.8	11.2	7.72	10.1	19.6	37.4	16.3	7.70	6.48	8.10	17.3	29.9	15.5	7.37	5.85
45	0.74	1.08	2.79	7.12	3.68	1.64	0.92	1.48	3.28	7.39	2.93	1.08	0.87	1.15	3.16	6.00	2.75	1.13	0.75
50	0.42	0.41	0.45	0.96	0.48	0.50	0.53	0.48	0.44	0.93	0.48	0.46	0.47	0.45	0.41	0.80	0.35	0.36	0.35
55	0.24	0.23	0.24	0.20	0.30	0.31	0.33	0.29	0.27	0.20	0.26	0.27	0.27	0.27	0.20	0.16	0.18	0.22	0.20
60	0.15	0.13	0.13	0.11	0.17	0.17	0.19	0.17	0.15	0.11	0.15	0.15	0.15	0.16	0.10	0.09	0.09	0.12	0.10
65	0.09	0.07	0.09	0.06	0.10	0.09	0.11	0.09	0.09	0.06	0.09	0.08	0.08	0.09	0.05	0.06	0.04	0.07	0.06
70	0.06	0.03	0.05	0.03	0.07	0.05	0.08	0.05	0.06	0.03	0.05	0.03	0.03	0.05	0.03	0.04	0.03	0.05	0.04
75	0.04	0.02	0.03	0.02	0.04	0.03	0.05	0.03	0.04	0.02	0.03	0.02	0.02	0.03	0.01	0.03	0.01	0.04	0.02
80	0.02	0.01	0.03	0.02	0.03	0.02	0.04	0.01	0.03	0.02	0.02	0.02	0.01	0.02	0.00	0.02	0.01	0.03	0.01
85	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.00	0.02	0.01	0.02	0.01
90	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.01	0.01	0.01	0.01

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Temperature:25.3DEG	Humidity:52%
Operators:Meng yongjian	Test Distance:5.850m [K=1.0000]
Test Date:2018-06-08	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:0.0442A P:8.045W PF:0.8115 Freq:49.90Hz Lamp Flux:452.633x1 lm		
NAME: FF3-7W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	985	985	985	985	985													
5	979	972	974	973	973													
10	865	863	867	872	878													
15	680	678	686	694	704													
20	481	483	489	501	511													
25	296	314	320	323	316													
30	134	170	191	170	149													
35	42.8	67.9	87.8	67.5	46.7													
40	7.63	17.0	28.9	17.0	7.49													
45	1.12	2.82	6.04	2.95	1.10													
50	0.35	0.32	0.77	0.36	0.39													
55	0.21	0.17	0.15	0.17	0.22													
60	0.12	0.08	0.09	0.09	0.14													
65	0.07	0.04	0.06	0.04	0.08													
70	0.05	0.03	0.04	0.03	0.05													
75	0.04	0.01	0.03	0.01	0.03													
80	0.02	0.01	0.02	0.01	0.02													
85	0.02	0.01	0.01	0.01	0.01													
90	0.01	0.01	0.01	0.01	0.01													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng yongjian
 Test Date:2018-06-08

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: