

LED Downlight FUSION Series FS3-7W-940-30D



Light Output Ratio:	100.0%	
Luminaire Power:	7.665 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

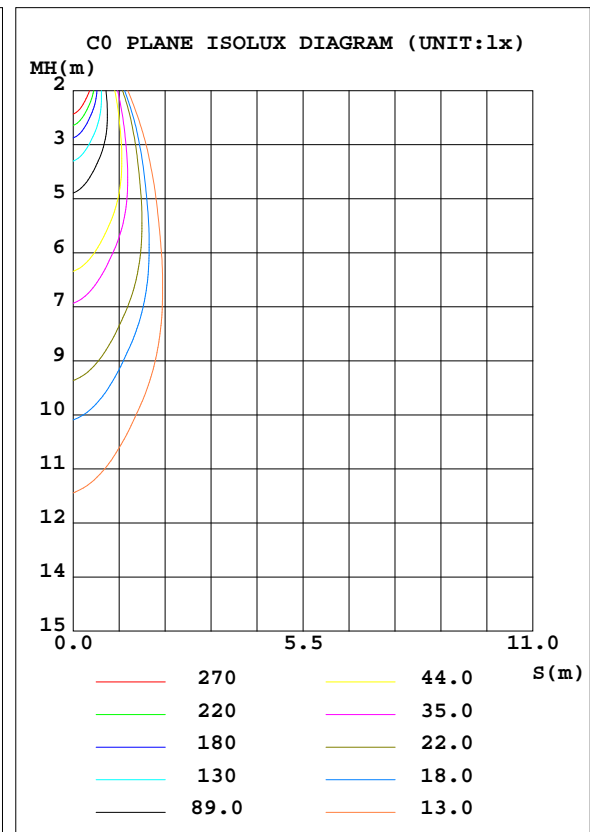
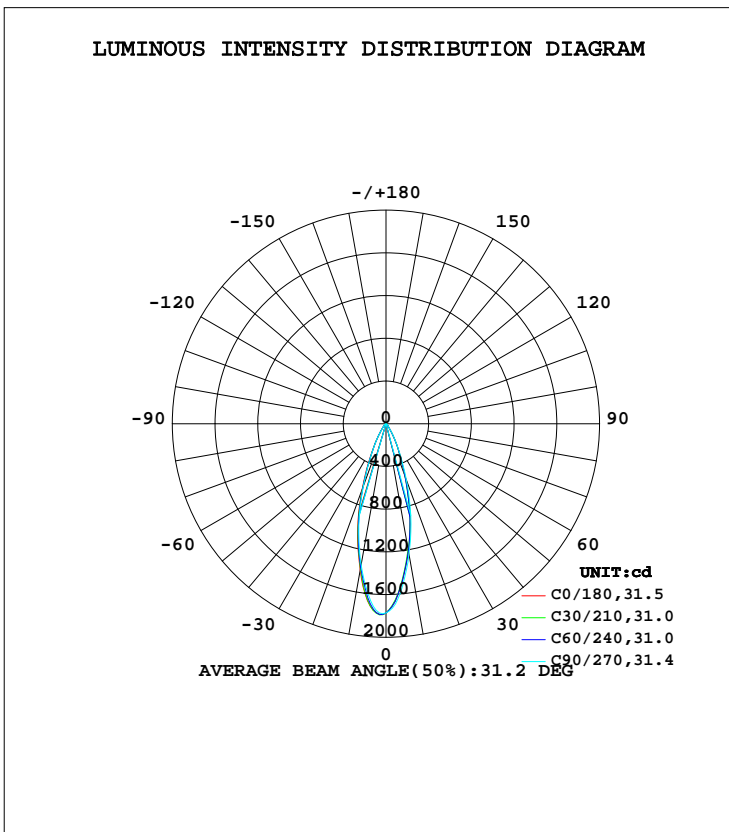
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-16

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:220.8V I:0.0429A P:7.665W PF:0.8092 Freq:50.00Hz Lamp Flux:652.053x1 lm		
NAME: FS3-7W-940-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L152mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	OSRAM-4000K	Imax(cd)	1790	S/MH(C0/180)	0.56
NOMINAL POWER(W)	9.0	LOR(%)	100.0	S/MH(C90/270)	0.54
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	652.05	η UP, DN(C0-180)	0.0,48.4
NOMINAL FLUX(lm)	652.053	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,51.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.55



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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	1213	1206	1241	1327	1394	1360	1344	1256	0- 10	143.9	143.9	22.1,22.1
20	522.8	517.4	558.1	596.6	656.0	621.5	621.5	547.8	10- 20	254.3	398.2	61.1,61.1
30	150.0	148.8	157.8	167.0	188.0	176.7	181.3	155.0	20- 30	150.0	548.1	84.1,84.1
40	36.45	36.99	40.69	45.98	50.38	47.88	46.32	39.66	30- 40	52.92	601.1	92.2,92.2
50	19.08	19.73	20.62	22.87	24.13	23.80	22.62	21.02	40- 50	23.57	624.6	95.8,95.8
60	10.79	10.89	11.23	12.09	12.16	12.15	12.09	11.15	50- 60	13.91	638.5	97.9,97.9
70	5.690	5.726	6.016	6.533	6.870	6.911	6.377	6.145	60- 70	8.759	647.3	99.3,99.3
80	1.686	1.675	1.732	1.891	2.022	2.018	1.954	1.790	70- 80	3.856	651.2	99.9,99.9
90	0.0350	0.0350	0.0350	0.0372	0.0372	0.0634	0.0525	0.0678	80- 90	0.8952	652.1	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): 614.25 lm

%lum = 94.2%
%lamp = 94.2%

Conical surface Flux(120deg): 638.54 lm

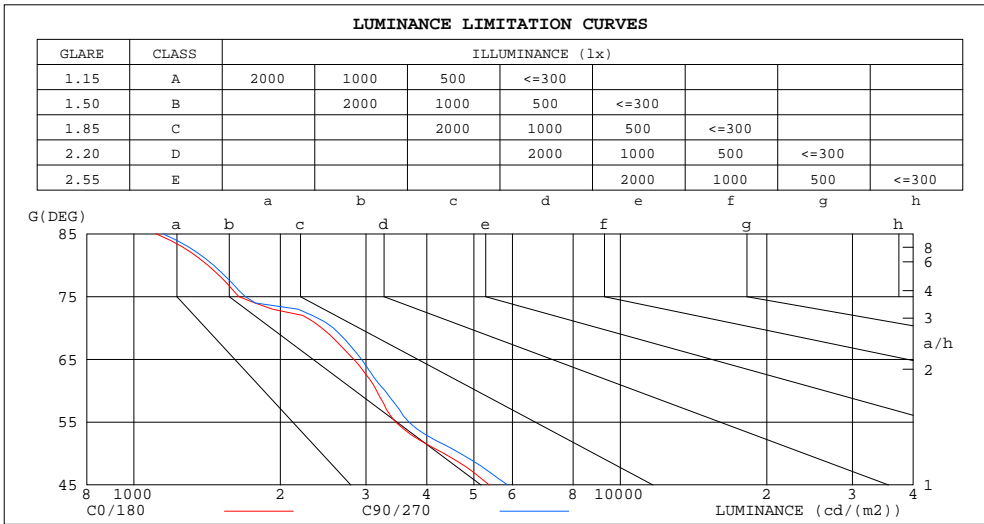
%lum = 97.9%
%lamp = 97.9%

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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	1111	1148
80	1420	1458
75	1643	1694
70	2432	2571
65	2832	2938
60	3155	3283
55	3450	3676
50	4340	4689
45	5376	5866

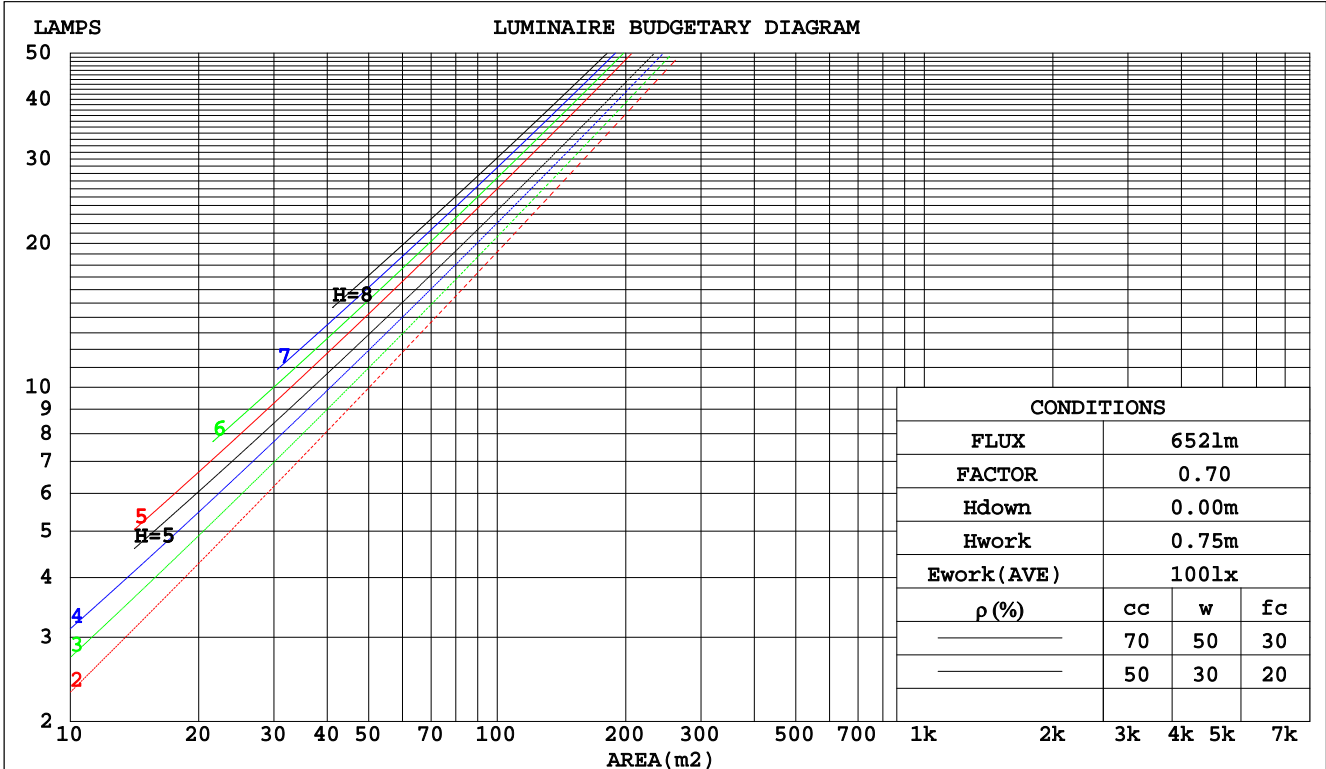
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.94	.89	.85	.92	.88	.84	.90	.87	.83	.88	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.85	.80	.76	.84	.79	.76	.83	.78	.75	.81	.77	.75	.80	.77	.74	.73
7.0	.81	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
8.0	.78	.72	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.74	.71	.68	.67
9.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.71	.68	.65	.64
10.0	.72	.67	.63	.71	.66	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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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	.165	.094	.030	.158	.090	.029	.145	.083	.027	.134	.077	.025	.123	.071	.023	
2.0	.155	.085	.026	.149	.082	.025	.139	.077	.024	.129	.073	.023	.120	.068	.021	
3.0	.146	.078	.023	.141	.075	.023	.132	.072	.022	.124	.068	.021	.116	.064	.020	
4.0	.137	.071	.021	.133	.070	.021	.126	.067	.020	.119	.064	.019	.112	.061	.019	
5.0	.129	.066	.019	.126	.065	.019	.119	.062	.018	.113	.060	.018	.108	.058	.017	
6.0	.123	.061	.018	.120	.060	.017	.114	.058	.017	.109	.056	.017	.104	.055	.016	
7.0	.117	.058	.016	.114	.057	.016	.109	.055	.016	.104	.053	.016	.100	.052	.015	
8.0	.111	.054	.015	.109	.054	.015	.104	.052	.015	.100	.051	.015	.096	.049	.014	
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.093	.047	.014	
10.0	.101	.049	.014	.100	.048	.013	.096	.047	.013	.093	.046	.013	.090	.045	.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	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.120	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.111	.077	.052	.096	.067	.045	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

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 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

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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	13.1	13.9	13.3	14.1	14.2	13.4	14.2	13.6	14.4	14.6
3H	13.8	14.5	14.0	14.7	14.9	14.1	14.8	14.3	15.0	15.2
4H	13.9	14.6	14.2	14.8	15.0	14.2	14.9	14.5	15.2	15.4
6H	14.0	14.6	14.3	14.9	15.1	14.3	15.0	14.6	15.2	15.4
8H	14.0	14.6	14.3	14.9	15.1	14.3	14.9	14.6	15.2	15.5
12H	14.0	14.6	14.3	14.9	15.1	14.3	14.9	14.6	15.2	15.4
4H 2H	13.3	14.1	13.6	14.3	14.5	13.6	14.4	13.9	14.6	14.8
3H	14.1	14.8	14.5	15.0	15.3	14.4	15.0	14.7	15.3	15.6
4H	14.3	14.9	14.7	15.2	15.5	14.6	15.2	15.0	15.5	15.8
6H	14.5	15.0	14.8	15.3	15.6	14.7	15.2	15.1	15.6	15.9
8H	14.5	15.0	14.9	15.3	15.7	14.8	15.2	15.2	15.6	15.9
12H	14.5	14.9	14.9	15.3	15.7	14.8	15.2	15.2	15.6	16.0
8H 4H	14.4	14.8	14.7	15.2	15.5	14.6	15.1	15.0	15.4	15.8
6H	14.5	14.9	15.0	15.3	15.7	14.8	15.2	15.2	15.6	16.0
8H	14.6	15.0	15.1	15.4	15.8	14.9	15.2	15.3	15.6	16.1
12H	14.6	14.9	15.1	15.4	15.8	14.9	15.2	15.3	15.6	16.1
12H 4H	14.3	14.8	14.7	15.1	15.5	14.6	15.0	15.0	15.4	15.8
6H	14.5	14.9	15.0	15.3	15.7	14.8	15.1	15.2	15.5	16.0
8H	14.6	14.9	15.1	15.3	15.8	14.8	15.1	15.3	15.6	16.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.8 / - 1.0				
1.5H	+ 1.1 / - 0.6					+ 1.3 / - 0.7				
2.0H	+ 1.3 / - 0.6					+ 1.4 / - 0.8				

CIE Pub.117, 652.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.5)

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UTILIZATION FACTORS TABLE

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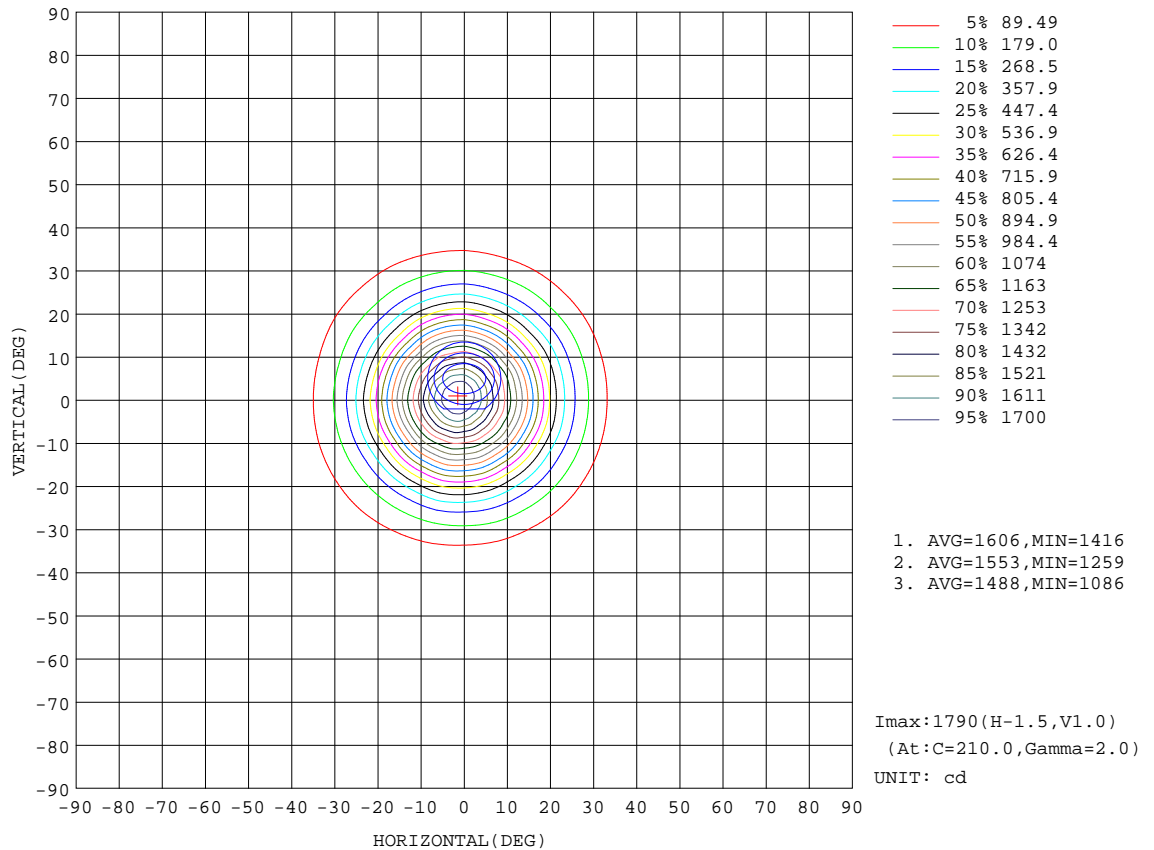
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	80	76	86	80	76	85	80	76	73
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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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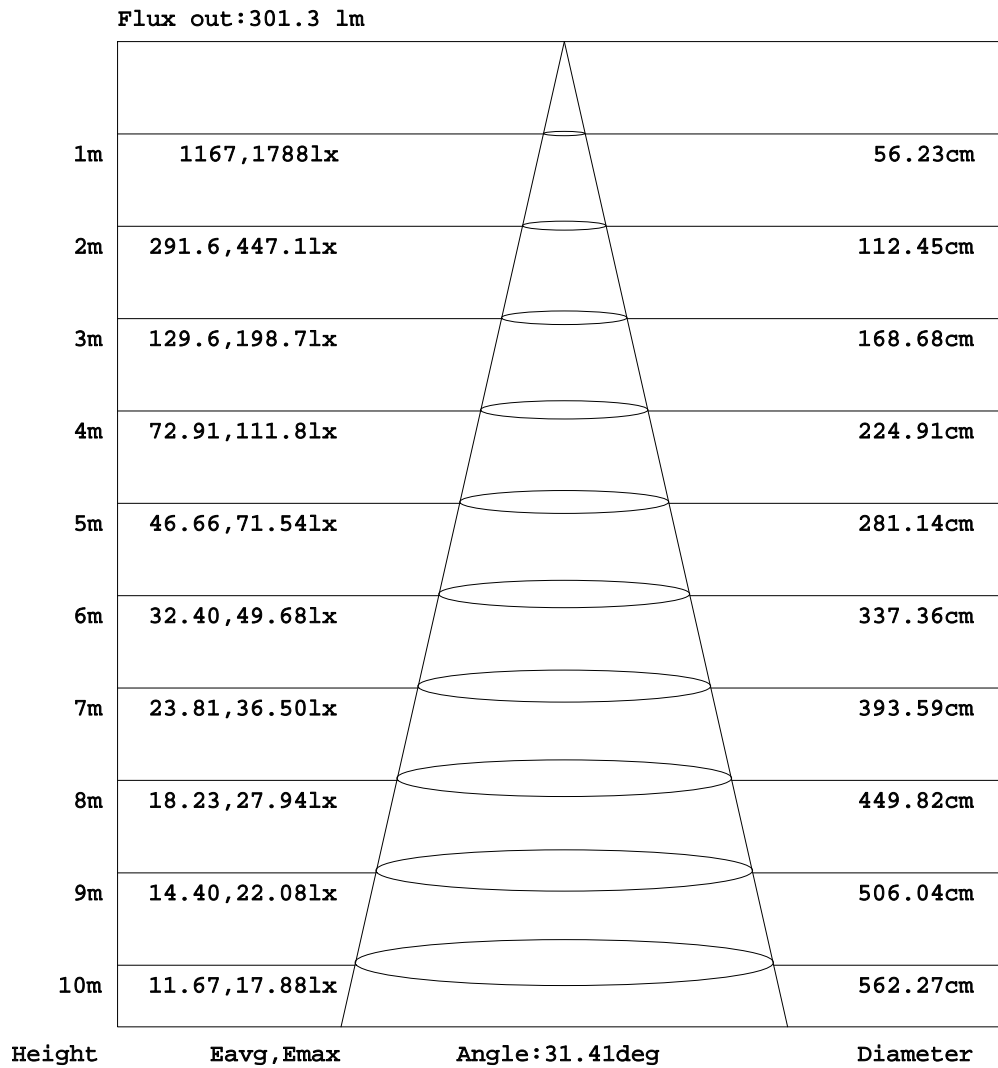


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AAI Figure

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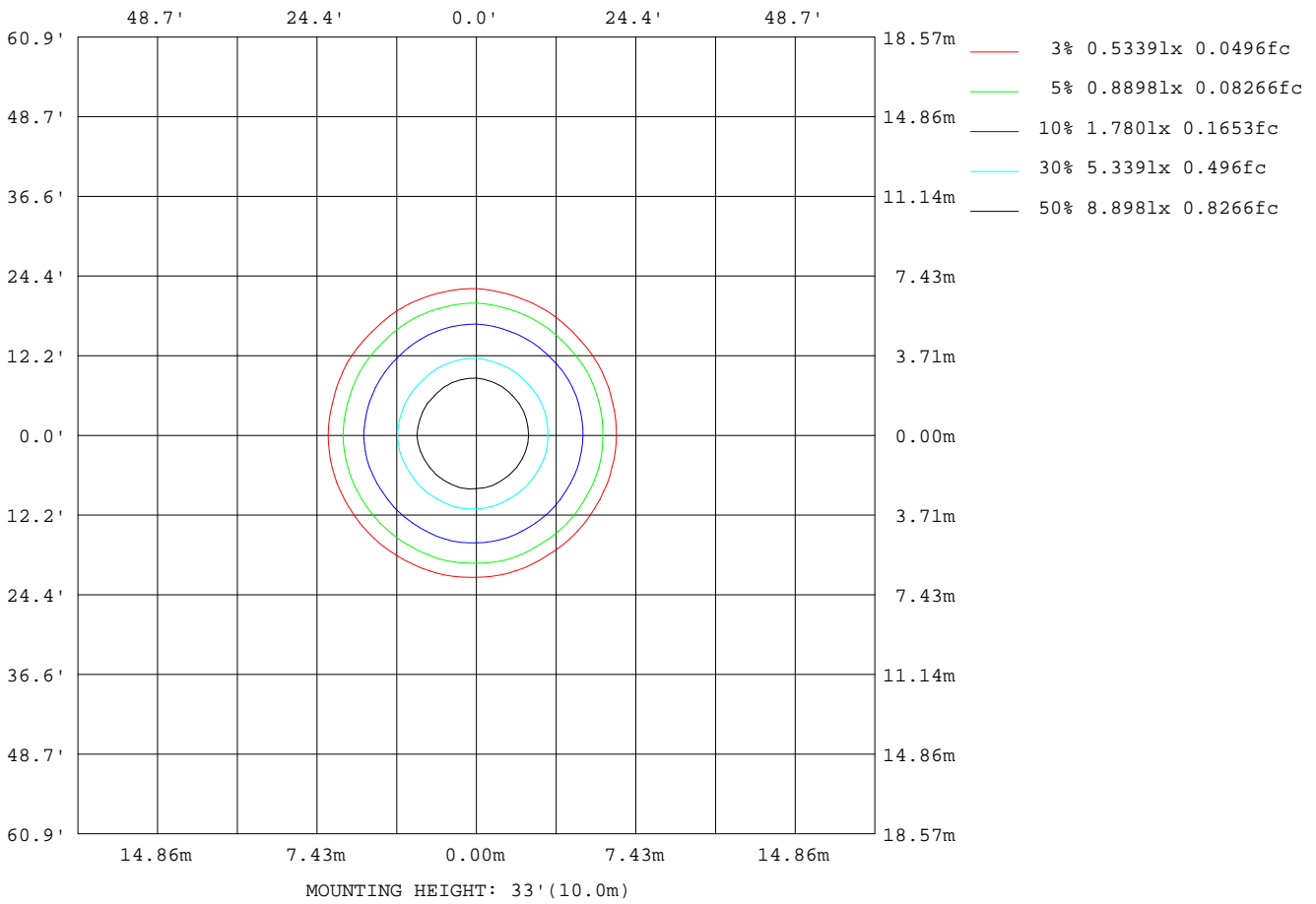
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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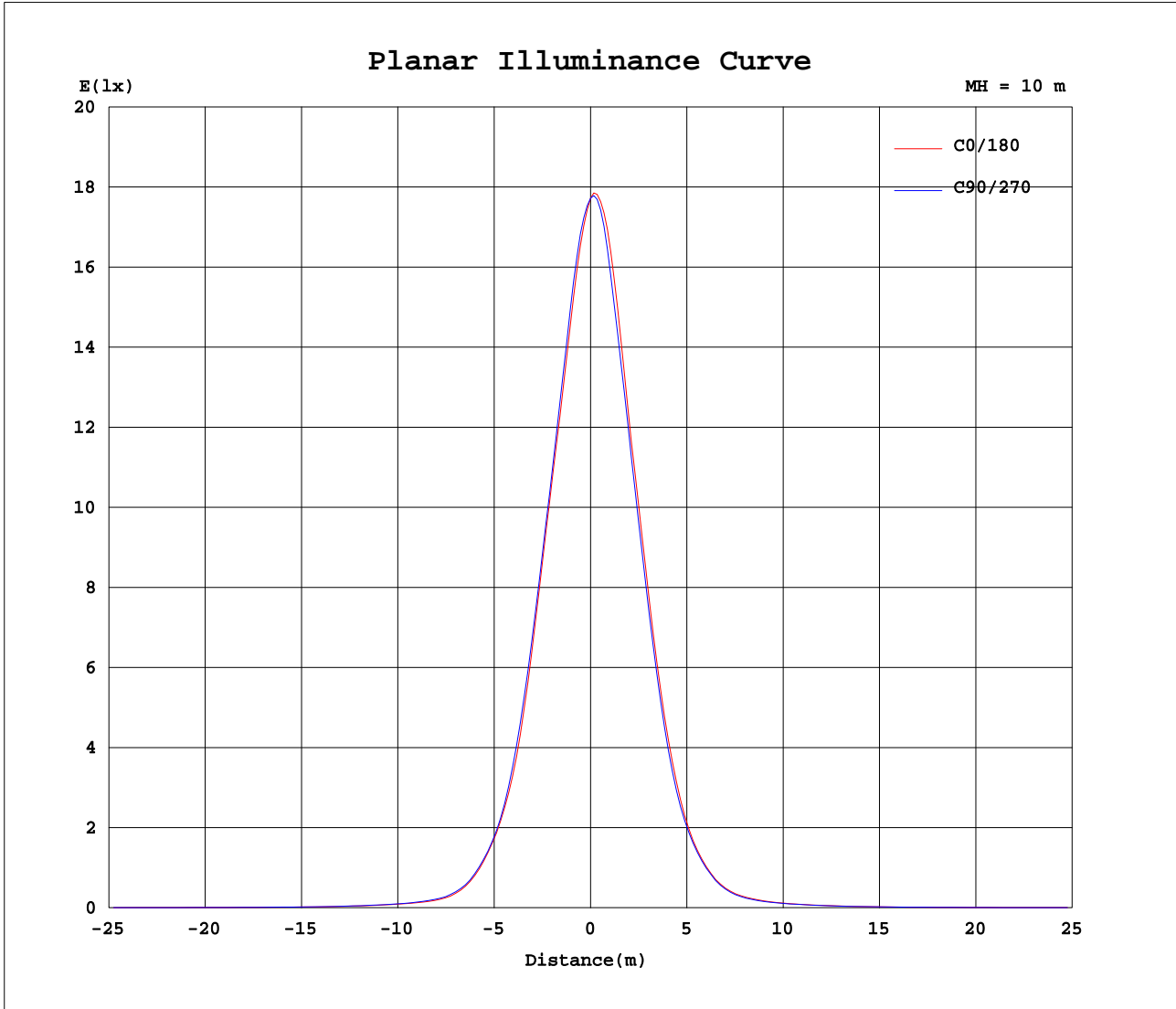
AvgL	cd/m2
L_0~180(65)av	3037
L_0~180(75)av	1909
L_0~180(85)av	1309
L_90~270(65)av	3030
L_90~270(75)av	1800
L_90~270(85)av	1306
L_45(65)av	3050
L_45(75)av	1831
L_45(85)av	1301

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-05-16

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: 2017-05-16

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:220.8V I:0.0429A P:7.665W PF:0.8092 Freq:50.00Hz Lamp Flux:652.053x1 lm		
NAME: FS3-7W-940-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L152mm*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	1772	1774	1771	1774	1772	1774	1772	1773	1773	1773	1775	1775	1772	1774	1771	1774	1772	1774	1772
5	1544	1544	1532	1541	1542	1568	1583	1619	1637	1660	1669	1697	1714	1709	1710	1693	1692	1676	1664
10	1213	1210	1195	1206	1209	1232	1241	1278	1290	1327	1344	1370	1394	1385	1380	1360	1366	1343	1344
15	875	868	856	862	860	889	899	932	936	961	971	1004	1030	1014	1014	992	1003	994	985
20	523	524	513	517	518	543	558	577	578	597	608	638	656	652	636	621	633	629	621
25	292	289	281	284	287	297	302	314	310	319	328	352	364	354	347	337	345	344	341
30	150	150	146	149	149	157	158	162	162	167	173	180	188	182	183	177	182	182	181
35	66.4	64.2	64.6	64.7	66.5	70.3	72.5	76.1	78.4	82.4	84.6	88.9	89.4	88.4	90.5	87.4	89.0	86.7	85.4
40	36.4	36.3	36.1	37.0	38.0	39.6	40.7	42.9	43.9	46.0	47.3	49.0	50.4	49.6	49.0	47.9	48.1	47.1	46.3
45	26.0	26.0	26.2	27.2	27.6	28.1	28.4	29.3	30.2	31.6	32.4	33.0	33.6	33.6	33.4	32.6	32.6	31.7	31.3
50	19.1	18.9	19.1	19.7	20.0	20.4	20.6	21.2	21.8	22.9	23.3	23.7	24.1	24.4	24.2	23.8	23.6	23.0	22.6
55	13.5	13.3	13.3	13.7	13.8	14.4	14.4	14.5	14.9	15.7	15.7	15.9	16.1	16.1	16.3	16.3	16.4	15.9	15.6
60	10.8	10.7	10.8	10.9	10.9	11.1	11.2	11.3	11.7	12.1	12.0	12.1	12.2	11.9	12.2	12.1	12.4	12.8	12.1
65	8.19	8.25	8.19	8.40	8.33	8.35	8.49	8.67	8.80	9.05	9.34	9.50	9.37	9.31	9.35	9.33	9.63	9.30	9.03
70	5.69	5.69	5.62	5.73	5.81	6.00	6.02	6.21	6.33	6.53	6.64	6.92	6.87	6.66	6.93	6.91	6.74	6.57	6.38
75	2.91	2.91	2.87	2.91	2.91	2.98	3.00	3.12	3.18	3.32	3.35	3.66	3.85	3.64	3.81	3.64	3.50	3.35	3.37
80	1.69	1.68	1.66	1.68	1.68	1.71	1.73	1.79	1.83	1.89	1.92	1.97	2.02	2.02	2.04	2.02	2.01	1.98	1.95
85	0.66	0.64	0.63	0.63	0.64	0.66	0.68	0.72	0.77	0.80	0.83	0.86	0.90	0.92	0.92	0.92	0.91	0.90	0.87
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.06	0.05	0.04	0.06	0.07	0.06	0.05	0.06	0.05

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:2017-05-16	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0429A P:7.665W PF:0.8092 Freq:50.00Hz Lamp Flux:652.053x1 lm		
NAME: FS3-7W-940-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L152mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1773	1773	1773	1775	1775														
5	1633	1614	1586	1571	1551														
10	1311	1286	1256	1250	1221														
15	954	927	897	894	877														
20	589	572	548	546	531														
25	321	310	300	302	295														
30	171	164	155	156	152														
35	78.5	74.4	69.2	68.8	67.2														
40	43.9	41.7	39.7	38.9	37.0														
45	30.1	29.6	28.8	27.9	26.6														
50	22.0	21.8	21.0	20.5	19.5														
55	15.0	15.1	14.8	14.4	13.9														
60	11.7	11.5	11.2	11.3	11.1														
65	8.74	8.65	8.48	8.57	8.43														
70	6.23	6.22	6.15	6.00	5.86														
75	3.31	3.34	3.10	3.06	2.95														
80	1.90	1.85	1.79	1.76	1.71														
85	0.84	0.79	0.76	0.72	0.69														
90	0.07	0.07	0.07	0.06	0.05														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-05-16

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: