

LED Downlight FUSION Series FF6-FS2-17W-830-40D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	19.57 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

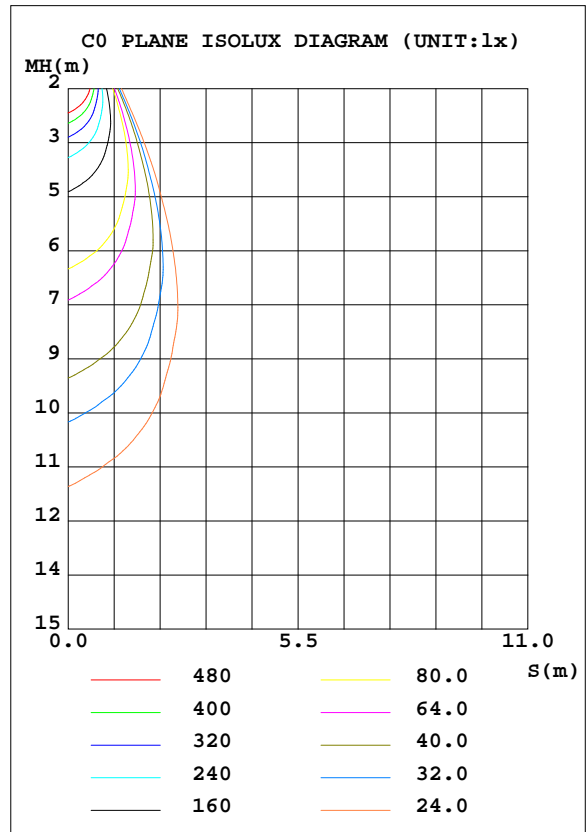
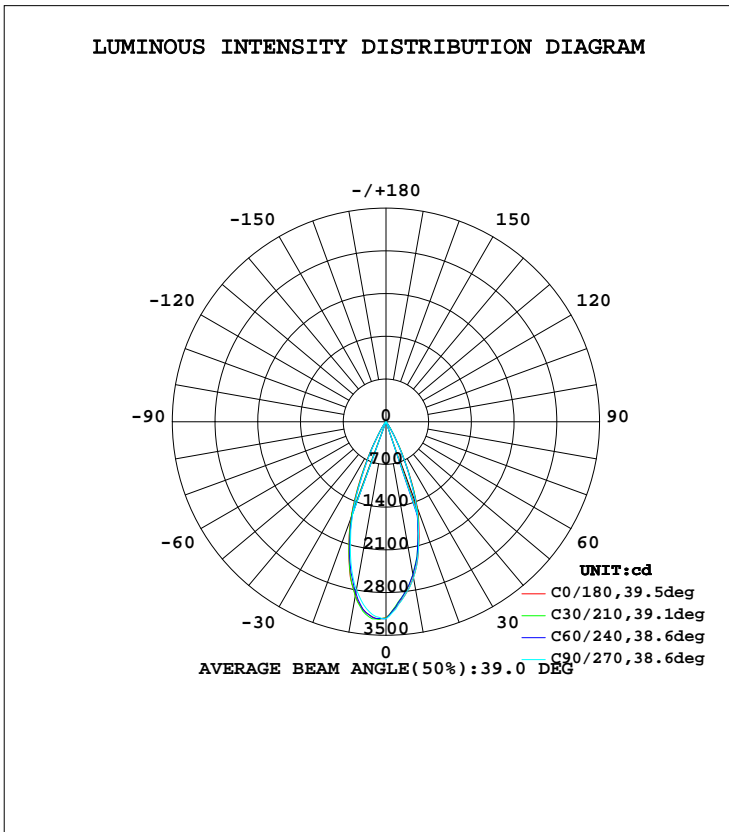
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-14

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:220.7V I:0.0928A P:19.57W PF:0.9621 Lamp Flux:1354.4lx1 lm		
NAME: FF6-FS2-17W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 69.20 lm/W
MODEL	CREE-3000K	I _{max} (cd)	3240	S/MH(C0/180)	0.63	
NOMINAL POWER(W)	20.0	LOR(%)	100.0	S/MH(C90/270)	0.61	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1354.4	η UP, DN(C0-180)	0.0, 48.5	
NOMINAL FLUX(lm)	1354.41	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.5	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.65	



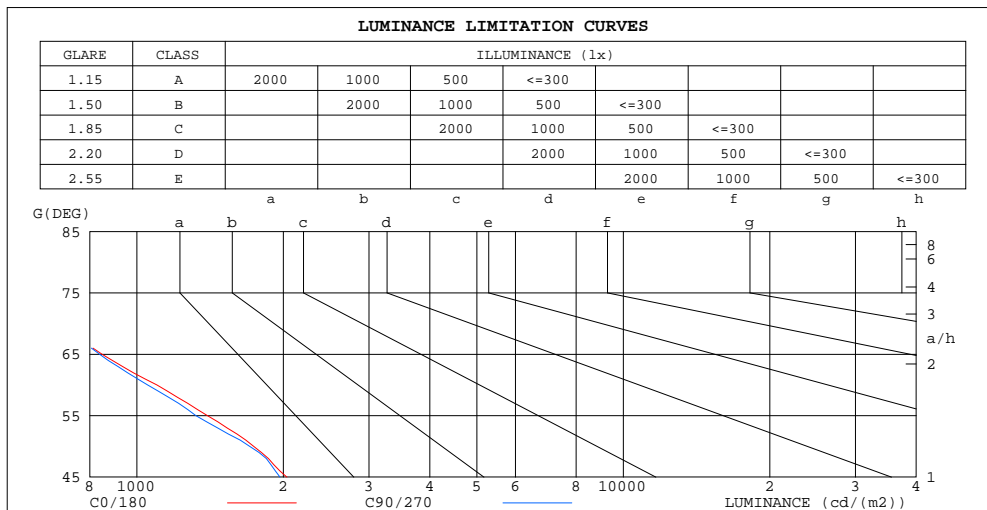
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2592	2548	2599	2710	2893	2861	2796	2682	0- 10	280.1	280.1	20.7,20.7
20	1504	1464	1454	1524	1678	1621	1598	1538	10- 20	593.8	873.9	64.5,64.5
30	296.5	296.4	277.8	288.9	324.6	298.4	295.3	304.3	20- 30	377.6	1251	92.4,92.4
40	31.63	30.99	29.98	32.93	39.64	37.74	36.53	33.74	30- 40	68.94	1320	97.5,97.5
50	14.58	14.42	14.31	16.87	18.23	17.58	15.99	14.58	40- 50	16.63	1337	98.7,98.7
60	7.175	6.810	6.867	7.446	8.080	7.405	7.188	7.046	50- 60	9.806	1347	99.4,99.4
70	2.867	2.948	3.095	3.472	3.764	3.645	3.556	2.931	60- 70	4.977	1352	99.8,99.8
80	0.8716	0.8670	0.9634	1.149	1.232	1.210	1.072	0.9171	70- 80	2.065	1354	100,100
90	0.0722	0.0678	0.0678	0.1509	0.1684	0.1290	0.0503	0.0503	80- 90	0.5339	1354	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	255	364
80	385	425
75	460	482
70	642	693
65	848	838
60	1100	1052
55	1397	1323
50	1738	1706
45	2034	1968

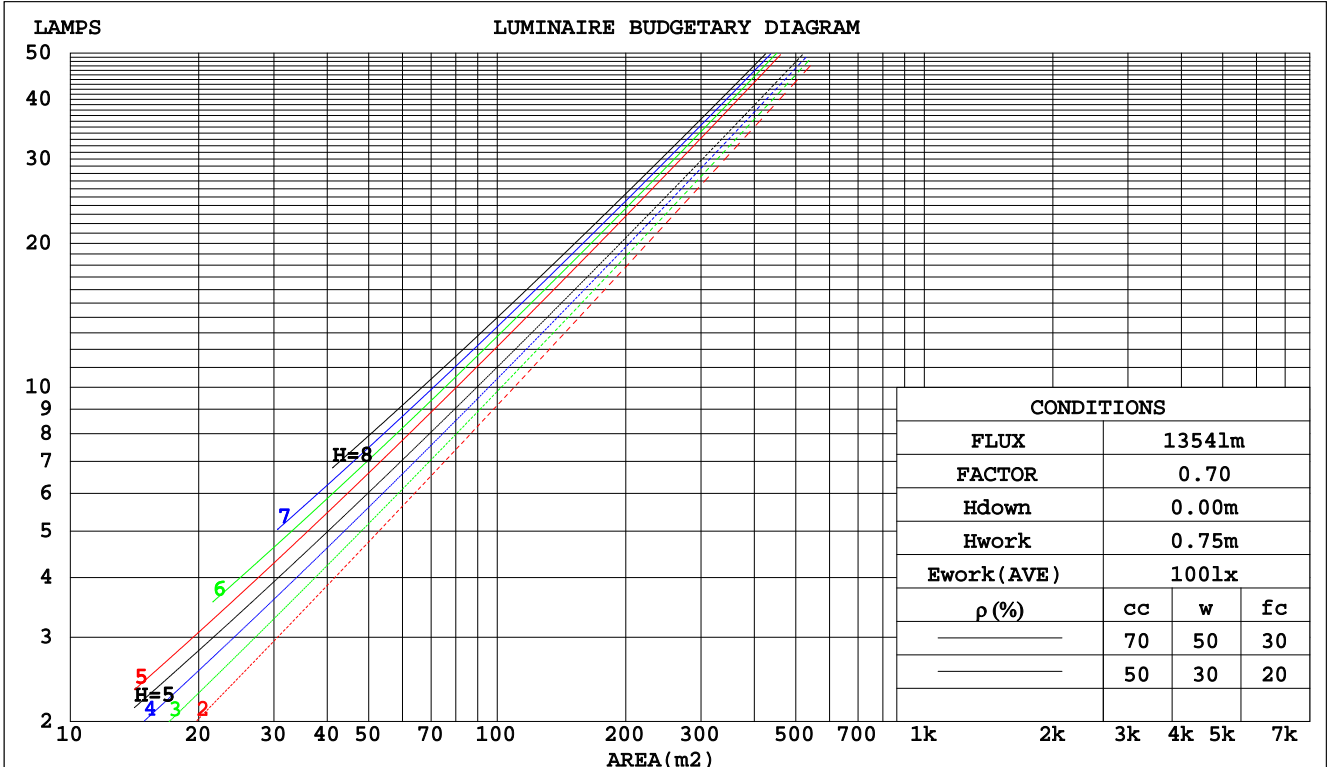
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0928A P:19.57W PF:0.9621 Lamp Flux:1354.4lx1 lm		
NAME: FF6-FS2-17W-830-40D Specular	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																0
pfc																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	1.00
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	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.96	.91	.88	.94	.90	.87	.92	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.82	.79	.77	.76
7.0	.83	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.74	.71	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.72	.68	.66	.65



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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	.153	.087	.028	.146	.084	.027	.134	.077	.025	.123	.071	.023	.112	.065	.021	
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.020	
3.0	.135	.072	.022	.130	.070	.021	.122	.066	.020	.114	.062	.019	.106	.059	.018	
4.0	.128	.066	.019	.124	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017	
5.0	.121	.062	.018	.117	.060	.018	.111	.058	.017	.105	.055	.017	.100	.053	.016	
6.0	.115	.058	.016	.112	.057	.016	.106	.055	.016	.101	.053	.015	.096	.051	.015	
7.0	.110	.054	.015	.107	.053	.015	.102	.052	.015	.098	.050	.015	.093	.049	.014	
8.0	.105	.051	.014	.103	.051	.014	.098	.049	.014	.094	.048	.014	.090	.046	.014	
9.0	.101	.049	.014	.099	.048	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013	
10.0	.097	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012	

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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.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	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.088	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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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	7.2	8.0	7.4	8.1	8.3	6.9	7.6	7.1	7.8	7.9
3H	7.3	8.0	7.5	8.2	8.3	7.0	7.7	7.2	7.9	8.0
4H	7.2	7.9	7.5	8.1	8.3	7.0	7.6	7.2	7.8	8.1
6H	7.2	7.8	7.5	8.1	8.3	6.9	7.6	7.2	7.8	8.0
8H	7.2	7.8	7.5	8.0	8.3	6.9	7.5	7.2	7.8	8.0
12H	7.1	7.7	7.5	8.0	8.3	6.9	7.5	7.2	7.7	8.0
4H 2H	7.1	7.8	7.4	8.0	8.2	6.8	7.5	7.1	7.7	7.9
3H	7.2	7.8	7.5	8.1	8.4	7.0	7.5	7.3	7.8	8.1
4H	7.2	7.8	7.6	8.1	8.4	7.0	7.5	7.3	7.8	8.1
6H	7.2	7.7	7.6	8.0	8.4	7.0	7.4	7.3	7.8	8.1
8H	7.2	7.6	7.6	8.0	8.3	7.0	7.4	7.3	7.7	8.1
12H	7.2	7.6	7.6	7.9	8.3	6.9	7.3	7.3	7.7	8.1
8H 4H	7.1	7.6	7.5	7.9	8.3	6.9	7.3	7.3	7.7	8.0
6H	7.1	7.5	7.6	7.9	8.3	6.9	7.3	7.3	7.7	8.1
8H	7.1	7.5	7.6	7.9	8.3	6.9	7.2	7.3	7.6	8.1
12H	7.1	7.4	7.6	7.8	8.3	6.9	7.2	7.4	7.6	8.1
12H 4H	7.1	7.5	7.5	7.9	8.3	6.8	7.2	7.2	7.6	8.0
6H	7.1	7.4	7.5	7.8	8.3	6.9	7.2	7.3	7.6	8.0
8H	7.1	7.4	7.6	7.8	8.3	6.9	7.1	7.3	7.6	8.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 1.9					+ 1.8 / - 1.8				
1.5H	+ 3.3 / - 1.3					+ 2.9 / - 1.1				
2.0H	+ 1.4 / - 1.7					+ 1.5 / - 1.5				

CIE Pub.117 Corrected 1354 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.1)

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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	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	112	110	109	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

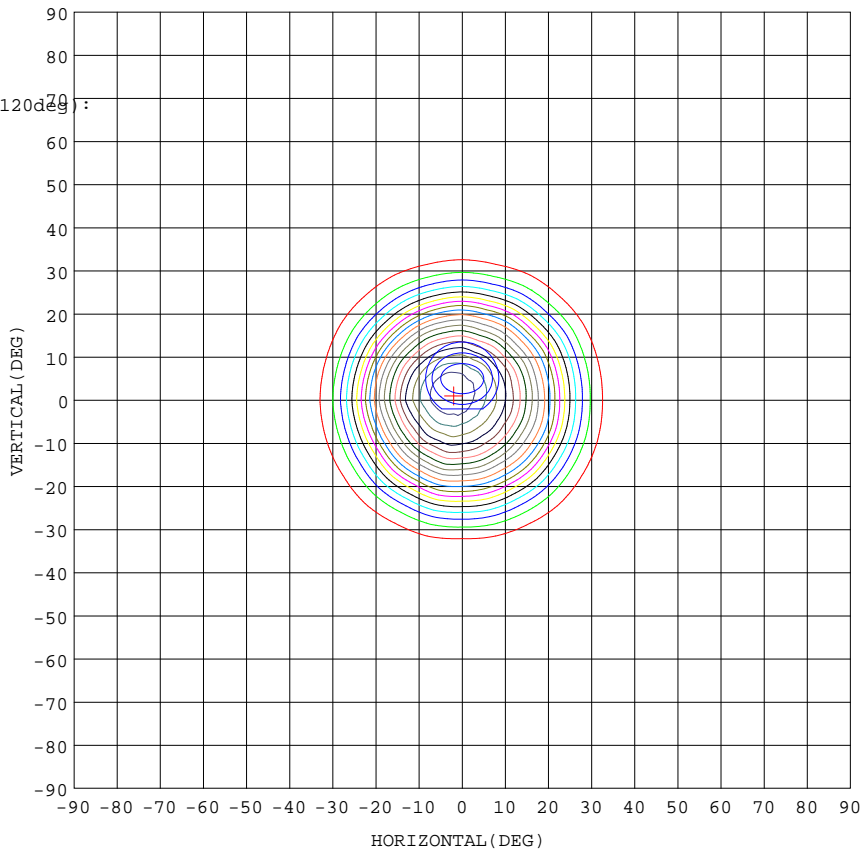
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Conical surface Flux(90deg):

1329.8 lm
%lum = 98.2%
%lamp = 98.2%

Conical surface Flux(120deg):

1346.8 lm
%lum = 99.4%
%lamp = 99.4%



1. AVG=3075, MIN=2856
2. AVG=3014, MIN=2668
3. AVG=2933, MIN=2407

Imax:3237(H=2.0,V1.0)
(At:C=210.0,Gamma=2.0)

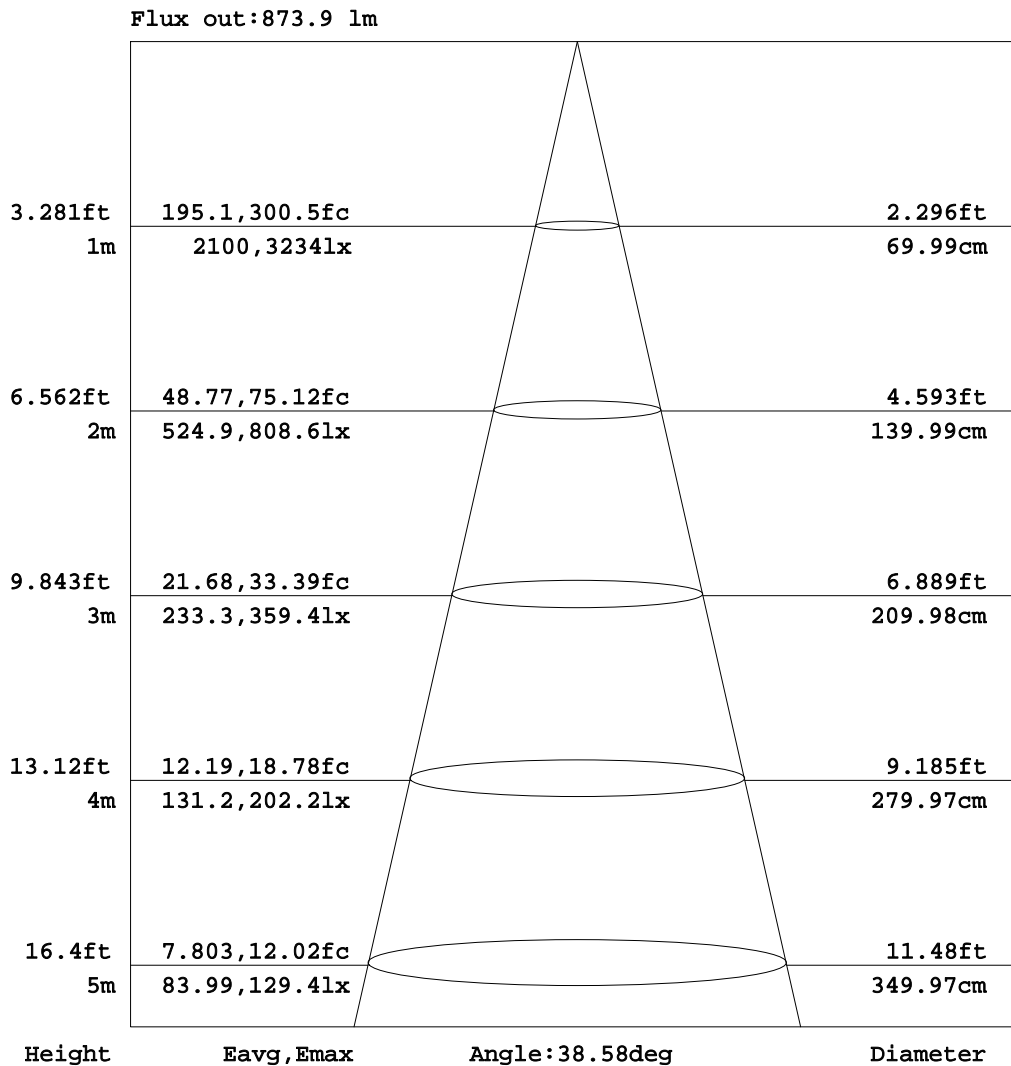
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AAI Figure

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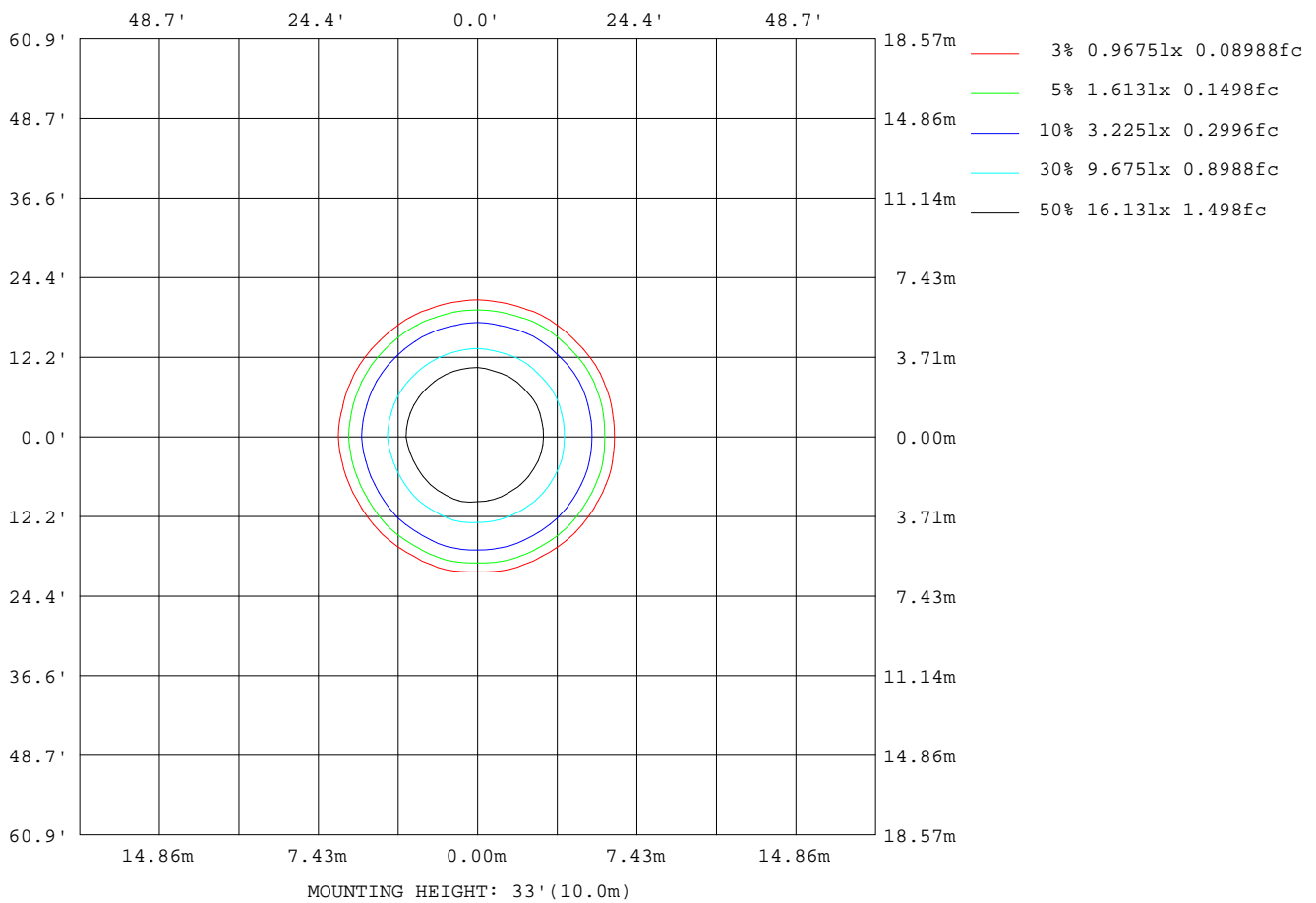
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

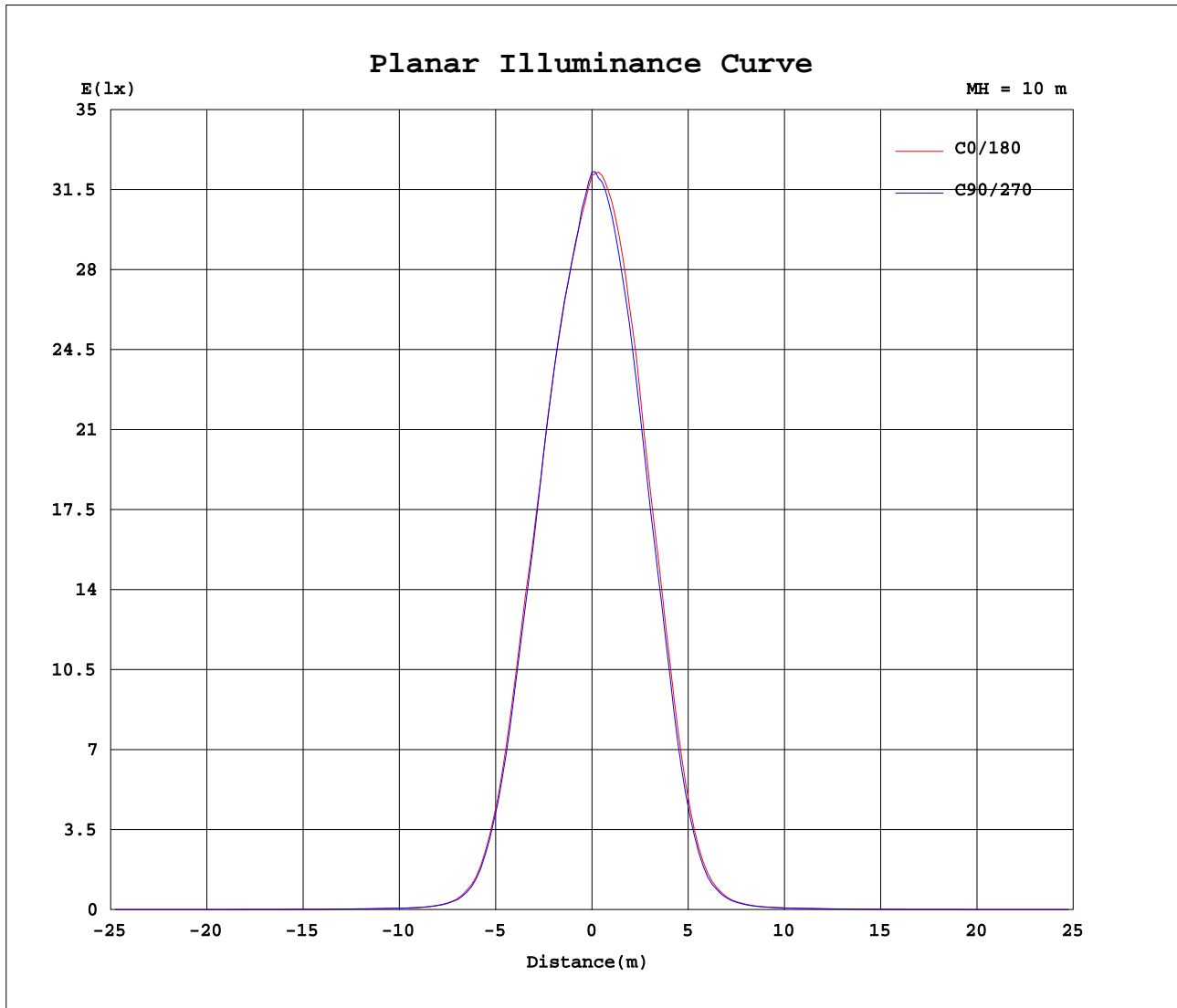
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	3211	3215	3217	3221	3227	3230	3227	3225	3220	3215	3203	3206	3211	3215	3217	3221	3227	3230	3227
5	2930	2916	2897	2912	2903	2923	2943	2992	3006	3061	3094	3128	3175	3190	3209	3198	3179	3158	3128
10	2592	2564	2544	2548	2545	2579	2599	2658	2666	2710	2739	2800	2893	2906	2904	2861	2852	2805	2796
15	2078	2063	2028	2028	2024	2046	2070	2144	2126	2166	2187	2242	2343	2342	2340	2304	2301	2257	2257
20	1504	1514	1478	1464	1443	1451	1454	1505	1487	1524	1532	1580	1678	1685	1669	1621	1615	1592	1598
25	803	802	780	789	766	779	769	799	775	799	791	826	893	875	871	832	831	810	824
30	296	305	292	296	286	291	278	294	276	289	281	296	325	314	312	298	298	287	295
35	85.3	86.4	83.3	82.8	79.9	80.9	79.0	83.8	81.3	86.7	86.4	93.1	100	98.0	98.1	92.5	92.2	90.5	93.1
40	31.6	31.5	30.6	31.0	30.1	30.5	30.0	31.5	31.3	32.9	33.2	35.8	39.6	39.2	39.0	37.7	37.5	36.7	36.5
45	18.8	18.5	18.3	18.4	18.0	18.2	18.2	19.1	19.7	20.6	20.9	21.5	23.2	23.3	23.2	22.9	22.3	21.7	21.1
50	14.6	14.4	14.2	14.4	14.1	14.2	14.3	15.4	16.0	16.9	17.1	17.4	18.2	18.0	18.1	17.6	17.2	16.4	16.0
55	10.5	10.3	10.1	10.1	9.91	9.97	9.90	10.6	10.7	11.3	11.6	11.9	12.4	11.9	11.9	11.3	11.0	10.6	10.4
60	7.18	6.99	6.80	6.81	6.77	6.89	6.87	7.24	7.22	7.45	7.52	7.68	8.08	7.81	7.72	7.41	7.44	7.25	7.19
65	4.68	4.62	4.48	4.58	4.52	4.63	4.62	4.93	4.91	5.05	5.09	5.20	5.44	5.38	5.39	5.21	5.28	5.11	5.06
70	2.87	2.88	2.84	2.95	2.92	3.04	3.09	3.33	3.31	3.47	3.50	3.63	3.76	3.74	3.74	3.64	3.68	3.57	3.56
75	1.55	1.54	1.53	1.54	1.55	1.59	1.63	1.79	1.90	2.08	2.11	2.24	2.24	2.16	2.16	2.16	1.99	1.83	1.78
80	0.87	0.86	0.86	0.87	0.89	0.92	0.96	1.06	1.09	1.15	1.18	1.19	1.23	1.24	1.24	1.21	1.17	1.12	1.07
85	0.29	0.30	0.31	0.31	0.34	0.36	0.41	0.48	0.52	0.56	0.60	0.61	0.61	0.64	0.63	0.61	0.57	0.54	0.49
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.09	0.14	0.15	0.17	0.17	0.17	0.17	0.15	0.13	0.09	0.07	0.05

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:220.7V I:0.0928A P:19.57W PF:0.9621 Lamp Flux:1354.41x1 lm		
NAME: FF6-FS2-17W-830-40D Specular	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	3225	3220	3215	3203	3206													
5	3071	3070	3023	2990	2958													
10	2731	2720	2682	2655	2625													
15	2177	2189	2142	2132	2109													
20	1552	1570	1538	1544	1515													
25	798	837	824	851	823													
30	287	311	304	326	309													
35	86.3	91.6	89.7	93.5	88.8													
40	34.5	35.5	33.7	33.6	32.1													
45	20.2	20.4	19.5	18.9	18.2													
50	15.0	15.2	14.6	14.5	14.1													
55	10.1	10.4	10.2	10.3	9.99													
60	7.09	7.23	7.05	7.06	6.90													
65	4.87	4.95	4.81	4.74	4.52													
70	3.30	3.26	2.93	2.89	2.75													
75	1.67	1.68	1.59	1.58	1.52													
80	0.99	0.96	0.92	0.89	0.86													
85	0.42	0.40	0.37	0.34	0.32													
90	0.05	0.05	0.05	0.05	0.05													

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:

Photometric Data Table [cd]

24.0	982.1	957.9	990.4	951.2
27.0	593.9	588.2	613.5	592.1
30.0	311.0	304.3	326.1	308.8
33.0	148.1	143.8	152.2	147.3
36.0	72.72	71.49	73.72	70.54
39.0	43.47	41.42	41.81	39.63
42.0	26.57	25.32	25.16	24.06
45.0	20.35	19.52	18.93	18.21
48.0	17.31	16.56	16.17	15.60
51.0	14.12	13.71	13.54	13.23
54.0	11.20	10.98	11.02	10.73
57.0	8.988	8.768	8.859	8.677
60.0	7.226	7.046	7.056	6.903
63.0	5.758	5.612	5.561	5.383
66.0	4.571	4.444	4.380	4.153
69.0	3.593	3.361	3.375	3.173
72.0	2.494	2.375	2.370	2.272
75.0	1.684	1.593	1.577	1.518
78.0	1.219	1.169	1.142	1.103
81.0	0.8427	0.8011	0.7706	0.7508
84.0	0.5038	0.4733	0.4426	0.4230
87.0	0.1917	0.1952	0.1721	0.1689
90.0	0.0481	0.0503	0.0503	0.0525

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: