

LED Downlight FUSION Series FA5-11W-830-40D Black



Light Output Ratio:	100.0%	
Luminaire Power:	13.14 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

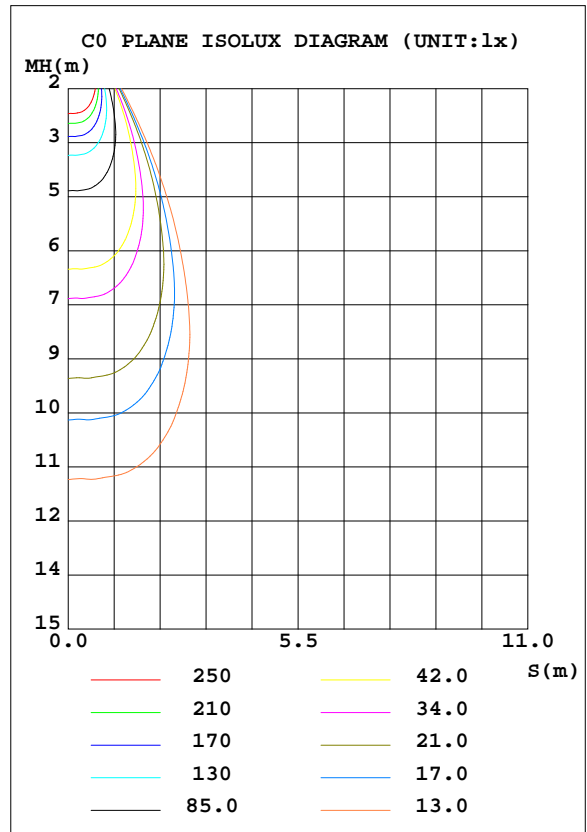
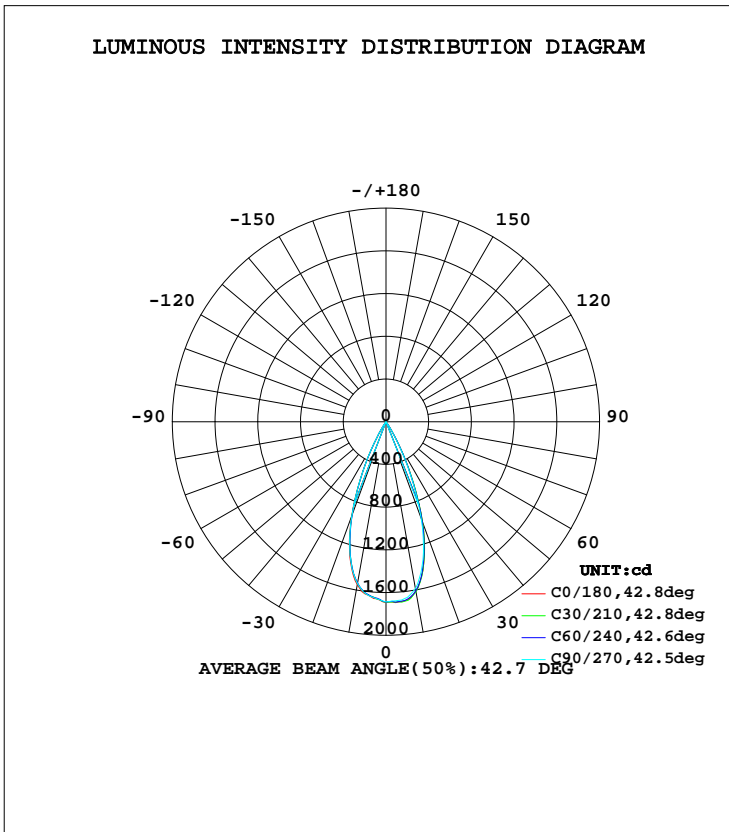
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.0659A P:13.14W PF:0.9038 Lamp Flux:790.337x1 lm		
NAME: FA5-11W-830-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.13 lm/W			
MODEL	CREE-3000K	I _{max} (cd)	1697	S/MH(C0/180)	0.64
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	790.34	η UP, DN(C0-180)	0.0, 50.7
NOMINAL FLUX(lm)	790.337	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.3
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



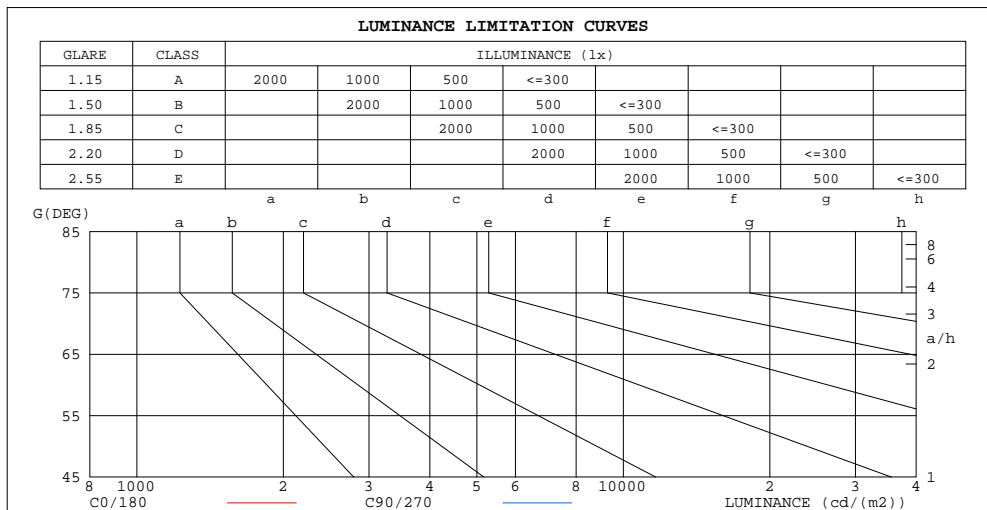
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	1611	1622	1587	1568	1550	1532	1539	1578	0- 10	156.2	156.2	19.8,19.8
20	1002	1012	967.1	951.1	945.6	917.4	937.0	966.0	10- 20	361.2	517.4	65.5,65.5
30	202.9	209.2	181.6	174.9	173.7	165.1	178.8	189.7	20- 30	242.2	759.5	96.1,96.1
40	3.529	4.108	3.292	3.382	3.534	3.548	3.323	3.717	30- 40	29.93	789.5	99.9,99.9
50	0.1813	0.1873	0.1962	0.1788	0.1702	0.1833	0.1575	0.1876	40- 50	0.5597	790.0	100,100
60	0.1066	0.0937	0.1151	0.0979	0.0916	0.1108	0.0831	0.1065	50- 60	0.1191	790.1	100,100
70	0.0788	0.0618	0.0810	0.0618	0.0618	0.0810	0.0595	0.0746	60- 70	0.0819	790.2	100,100
80	0.0639	0.0469	0.0490	0.0490	0.0426	0.0575	0.0426	0.0575	70- 80	0.0622	790.3	100,100
90	0.0575	0.0533	0.0490	0.0533	0.0426	0.0405	0.0426	0.0426	80- 90	0.0522	790.3	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	96	82
80	53	41
75	39	37
70	33	34
65	31	33
60	31	33
55	34	37
50	41	44
45	68	70

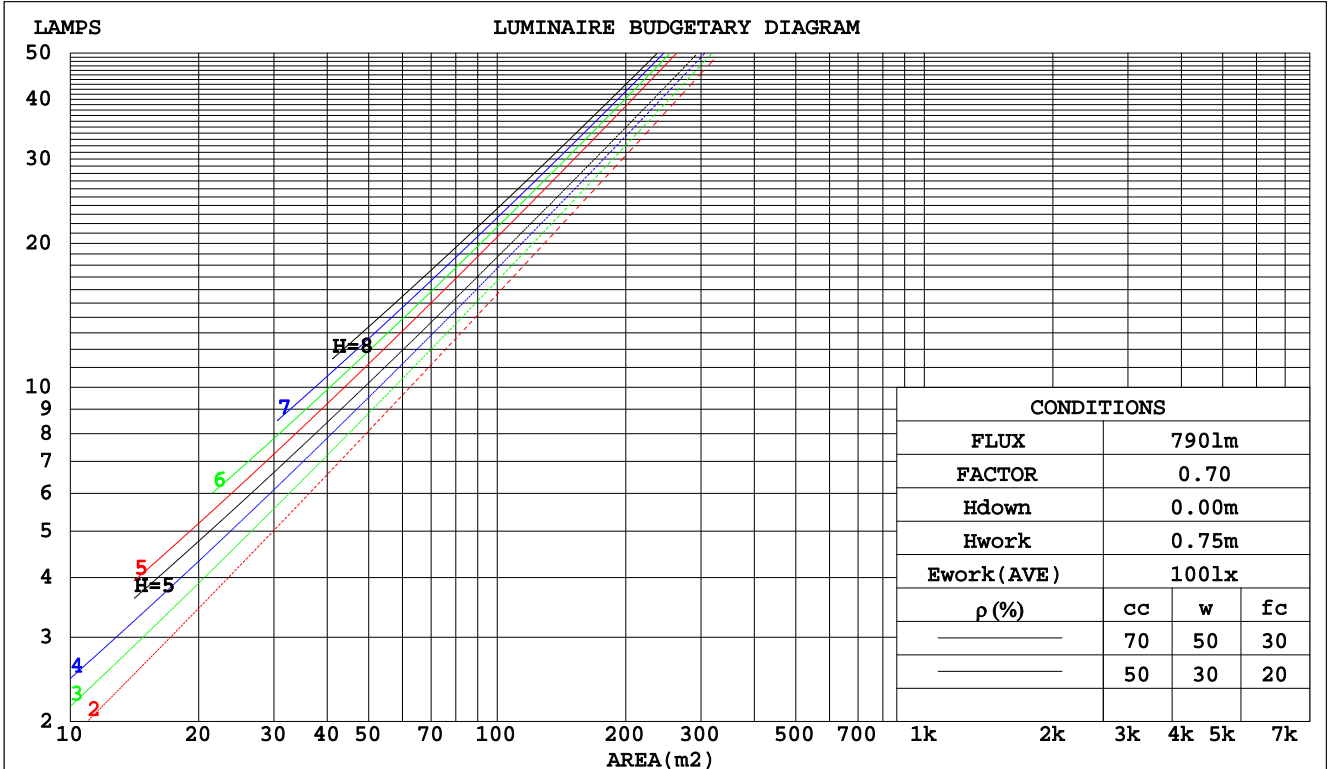
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: FA5-11W-830-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.94	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.88	.86	.90	.87	.85	.84
5.0	.92	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.82	.86	.84	.82	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
8.0	.81	.76	.73	.80	.76	.73	.80	.75	.73	.79	.75	.72	.78	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
10.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.72	.69	.67	.66



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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	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020	
2.0	.139	.076	.023	.134	.074	.023	.123	.069	.021	.114	.064	.020	.105	.059	.019	
3.0	.131	.070	.021	.126	.068	.020	.118	.064	.019	.110	.060	.018	.102	.057	.018	
4.0	.124	.064	.019	.120	.063	.019	.113	.060	.018	.106	.057	.017	.099	.054	.016	
5.0	.118	.060	.017	.114	.059	.017	.108	.056	.017	.102	.054	.016	.096	.052	.015	
6.0	.112	.056	.016	.109	.055	.016	.104	.053	.015	.098	.051	.015	.094	.049	.015	
7.0	.107	.053	.015	.104	.052	.015	.100	.050	.015	.095	.049	.014	.091	.047	.014	
8.0	.103	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	
10.0	.095	.045	.013	.093	.045	.013	.090	.044	.012	.086	.043	.012	.083	.042	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.074	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004	

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 Humidity:53.0%
 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	5.2	5.9	5.4	6.1	6.2	4.6	5.3	4.8	5.5	5.6
3H	5.0	5.7	5.3	5.9	6.1	4.4	5.1	4.7	5.3	5.5
4H	4.9	5.6	5.2	5.8	6.0	4.3	5.0	4.6	5.2	5.4
6H	4.9	5.5	5.1	5.7	5.9	4.3	4.9	4.5	5.1	5.3
8H	4.8	5.4	5.1	5.6	5.9	4.2	4.8	4.5	5.1	5.3
12H	4.8	5.3	5.1	5.6	5.9	4.2	4.7	4.5	5.0	5.3
4H 2H	4.9	5.6	5.2	5.8	6.0	4.3	5.0	4.6	5.2	5.4
3H	4.8	5.3	5.1	5.6	5.9	4.2	4.7	4.5	5.0	5.3
4H	4.7	5.2	5.0	5.5	5.8	4.1	4.6	4.4	4.9	5.2
6H	4.6	5.0	4.9	5.4	5.7	4.0	4.4	4.3	4.8	5.1
8H	4.5	4.9	4.9	5.3	5.7	3.9	4.4	4.3	4.7	5.1
12H	4.5	4.9	4.9	5.2	5.6	3.9	4.3	4.3	4.6	5.0
8H 4H	4.5	4.9	4.9	5.3	5.7	3.9	4.4	4.3	4.7	5.1
6H	4.4	4.8	4.8	5.2	5.6	3.8	4.2	4.2	4.6	5.0
8H	4.4	4.7	4.8	5.1	5.5	3.8	4.1	4.2	4.5	4.9
12H	4.3	4.6	4.8	5.0	5.5	3.7	4.0	4.2	4.4	4.9
12H 4H	4.5	4.9	4.9	5.2	5.6	3.9	4.3	4.3	4.6	5.0
6H	4.3	4.7	4.8	5.1	5.5	3.8	4.1	4.2	4.5	4.9
8H	4.3	4.6	4.8	5.0	5.5	3.7	4.0	4.2	4.4	4.9
Variations with the observer position at spacings:										
S = 1.0H	+ 5.5 / -10.8					+ 5.2 / -10.9				
1.5H	+ 8.2 / -10.7					+ 8.0 / -10.7				
2.0H	+ 0.8 / - 0.5					+ 1.0 / - 0.5				

CIE Pub.117 Corrected 790.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.8)

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 Remarks:

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	92	86	83	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	90	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	106	101	98	105	100	98	103	99	97	93
1.50	108	104	101	107	103	100	105	102	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	105	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	108	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

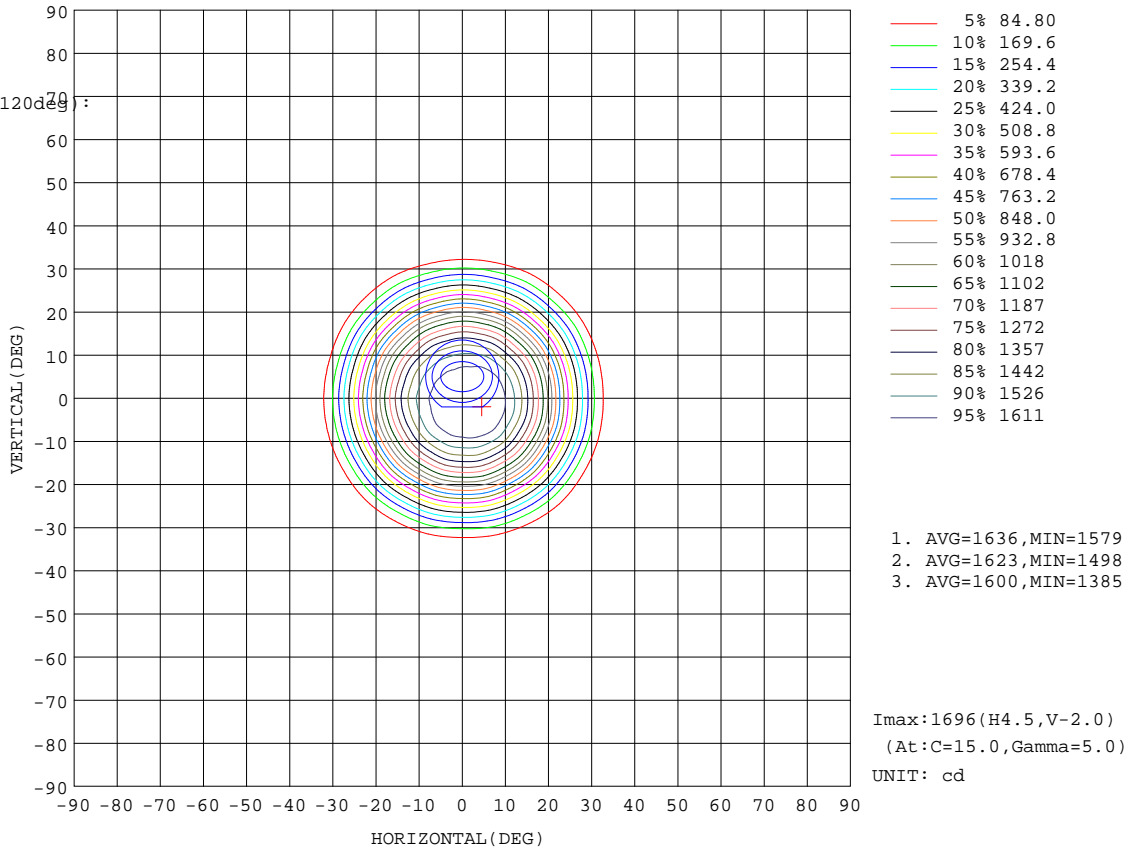
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Conical surface Flux(90deg):

789.93 lm
%lum = 99.9%
%lamp = 99.9%

Conical surface Flux(120deg):

790.14 lm
%lum = 100.0%
%lamp = 100.0%

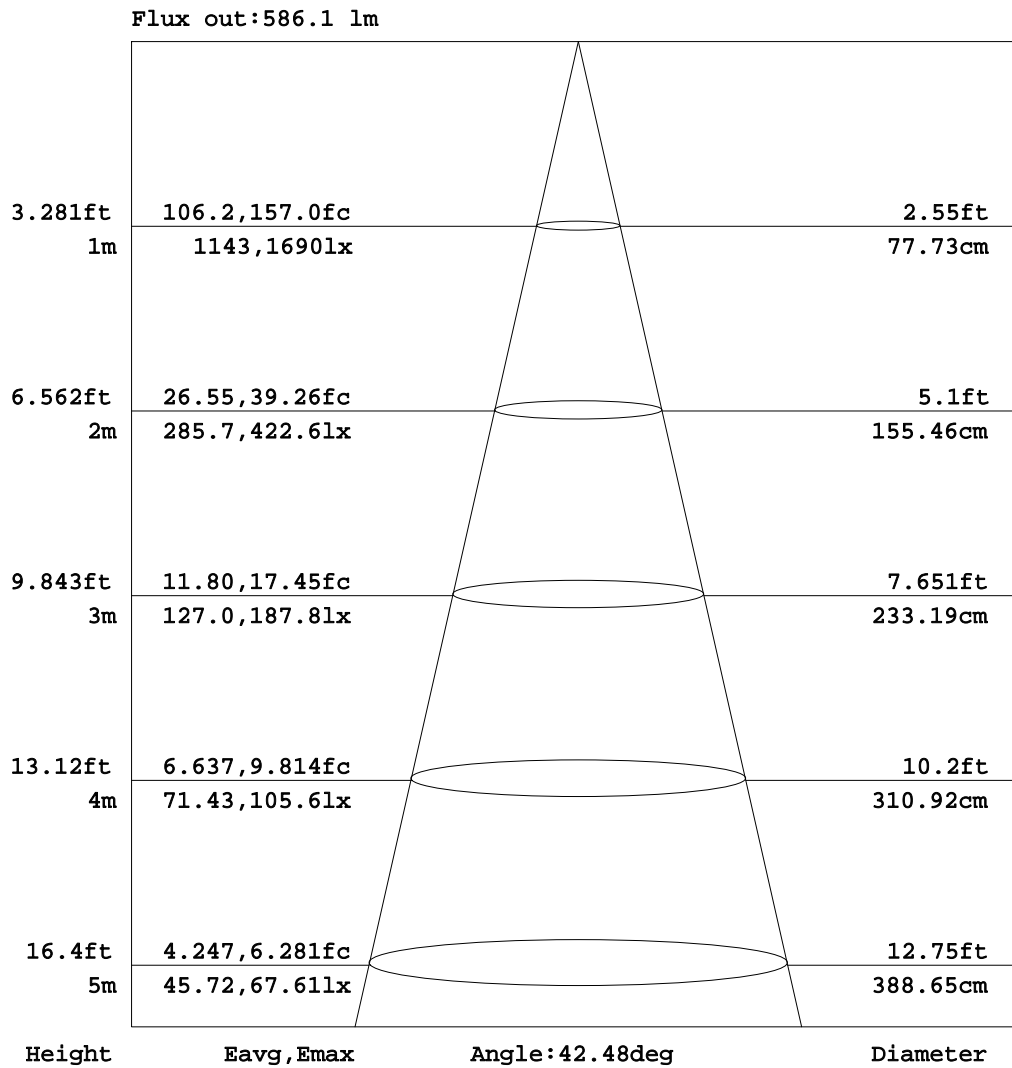


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AAI Figure

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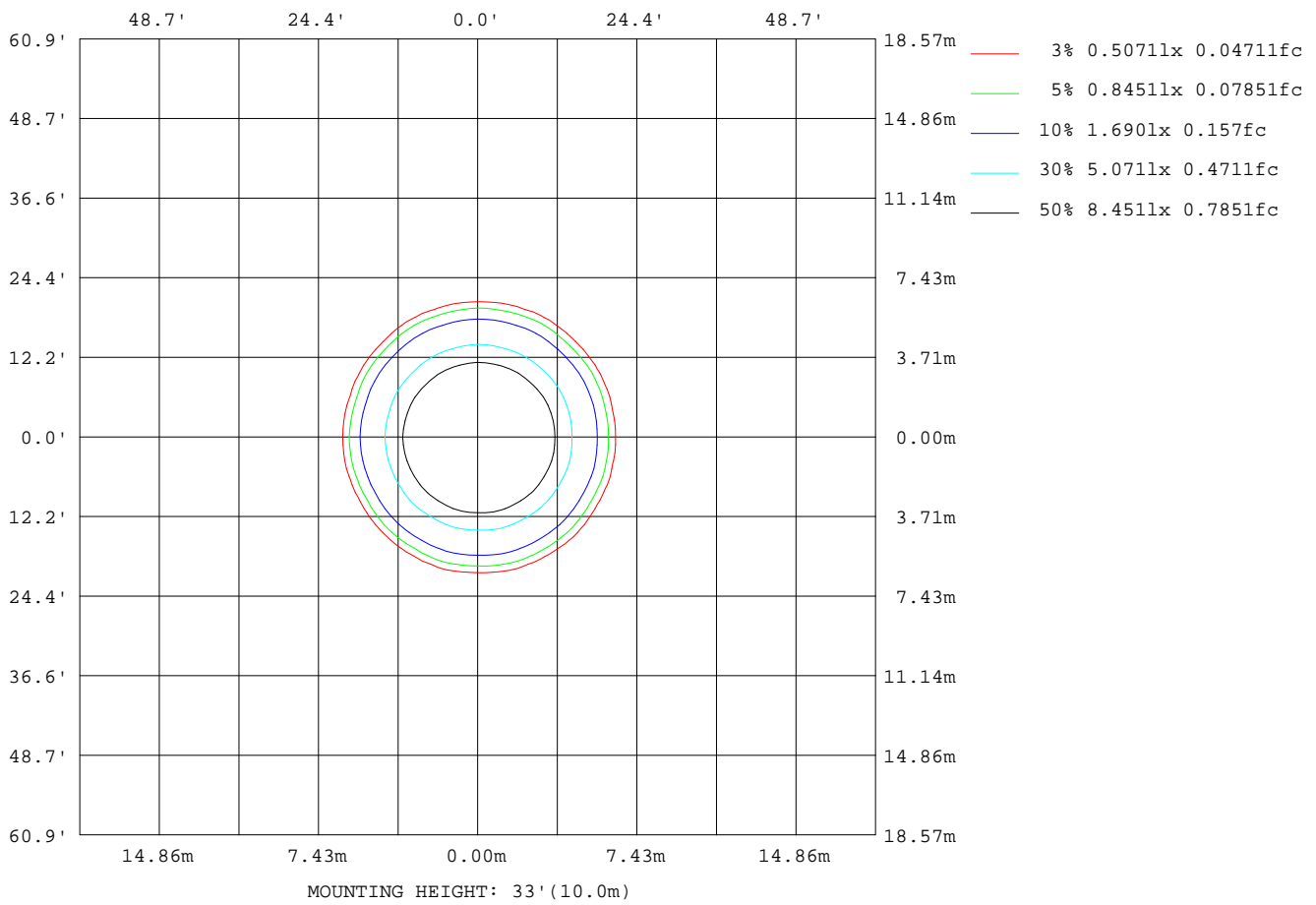
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

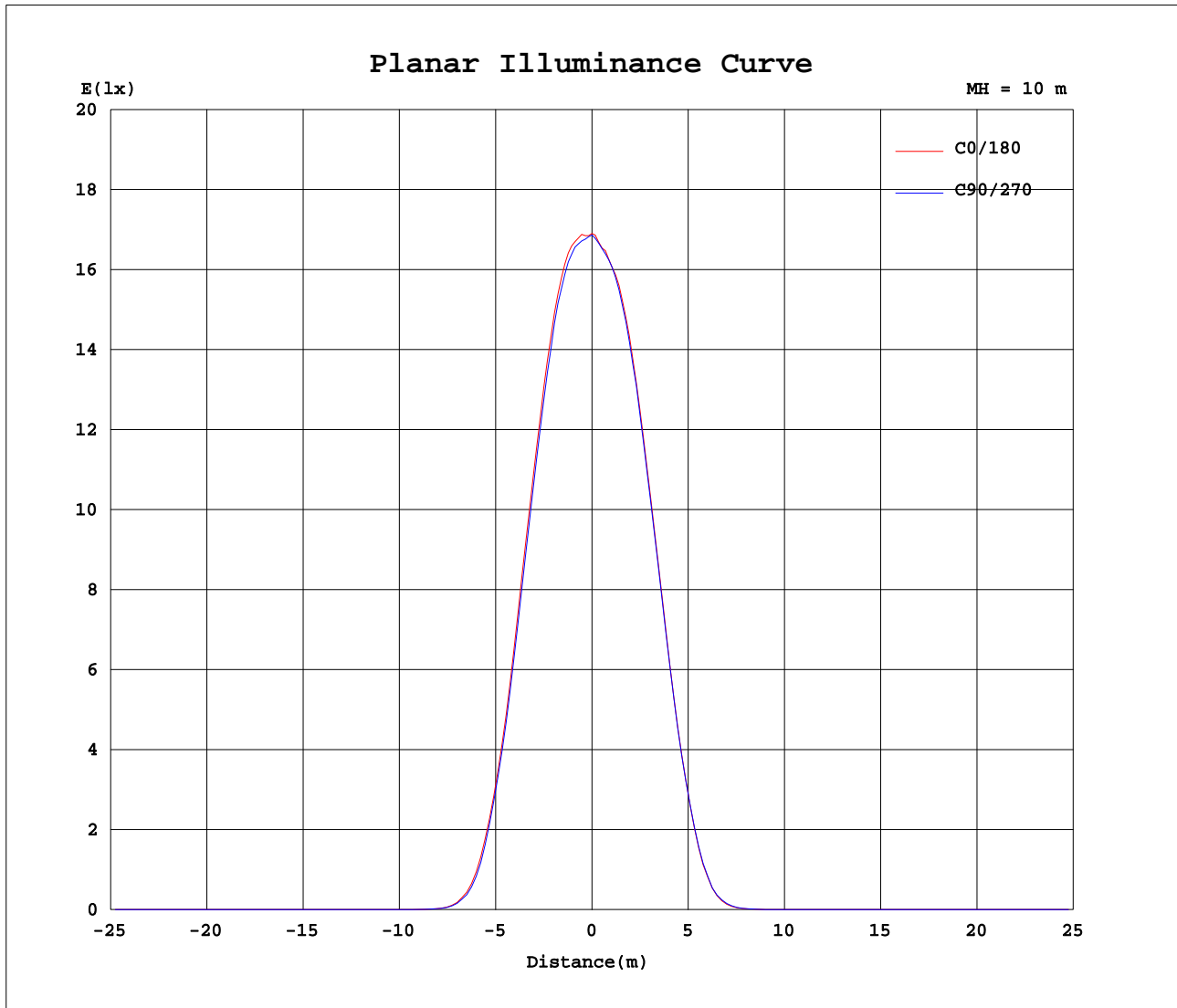
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Planar Illuminance Curve



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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	1690	1690	1689	1688	1687	1687	1687	1685	1685	1685	1684	1684	1690	1690	1689	1688	1687	1687	1687
5	1689	1697	1696	1694	1685	1684	1676	1671	1663	1666	1652	1646	1645	1644	1640	1636	1639	1639	1643
10	1611	1618	1618	1622	1607	1596	1587	1581	1573	1568	1554	1548	1550	1537	1538	1532	1533	1529	1539
15	1369	1379	1369	1377	1360	1357	1337	1337	1317	1315	1300	1303	1309	1289	1293	1282	1293	1281	1297
20	1002	1016	1006	1012	991	991	967	970	950	951	938	941	946	929	935	917	928	920	937
25	557	568	560	565	549	551	534	533	520	523	510	512	520	510	515	504	511	507	517
30	203	210	201	209	199	197	182	186	174	175	163	168	174	162	169	165	174	168	179
35	32.9	35.0	33.5	35.0	32.4	32.4	29.1	29.2	26.8	26.9	24.0	24.2	25.1	24.1	25.6	25.1	27.3	26.1	28.0
40	3.53	3.71	3.75	4.11	3.81	3.69	3.29	3.45	3.37	3.38	3.23	3.45	3.53	3.31	3.51	3.55	3.59	3.34	3.32
45	0.33	0.36	0.36	0.38	0.37	0.37	0.34	0.35	0.33	0.33	0.31	0.31	0.31	0.29	0.31	0.30	0.31	0.28	0.29
50	0.18	0.17	0.20	0.19	0.20	0.19	0.20	0.19	0.20	0.18	0.19	0.18	0.17	0.18	0.17	0.18	0.17	0.17	0.16
55	0.13	0.12	0.14	0.13	0.15	0.13	0.14	0.13	0.14	0.13	0.14	0.13	0.12	0.14	0.12	0.13	0.12	0.13	0.11
60	0.11	0.09	0.11	0.09	0.12	0.10	0.12	0.10	0.12	0.10	0.11	0.10	0.09	0.11	0.09	0.11	0.09	0.10	0.08
65	0.09	0.07	0.09	0.07	0.09	0.07	0.10	0.08	0.10	0.08	0.09	0.07	0.07	0.09	0.07	0.09	0.07	0.09	0.07
70	0.08	0.06	0.08	0.06	0.08	0.06	0.08	0.06	0.08	0.06	0.08	0.06	0.06	0.08	0.06	0.08	0.06	0.07	0.06
75	0.07	0.06	0.07	0.05	0.07	0.04	0.07	0.05	0.07	0.05	0.07	0.05	0.05	0.07	0.05	0.07	0.04	0.06	0.04
80	0.06	0.05	0.06	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.06	0.05	0.04	0.06	0.04	0.06	0.04	0.05	0.04
85	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04
90	0.06	0.06	0.05	0.05	0.04	0.04	0.05	0.05	0.04	0.05	0.06	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04

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:53.0%
 Operators:Cao Chengpei Test Distance:5.850m [K=1.0000]
 Test Date:2016-06-24 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0659A P:13.14W PF:0.9038 Lamp Flux:790.337x1 lm		
NAME: FA5-11W-830-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1685	1685	1685	1684	1684														
5	1648	1655	1670	1678	1684														
10	1548	1567	1578	1598	1602														
15	1300	1325	1328	1353	1363														
20	938	960	966	995	1000														
25	518	534	537	558	558														
30	179	193	190	205	204														
35	28.4	31.7	31.8	34.6	34.7														
40	3.49	3.90	3.72	3.95	3.70														
45	0.30	0.33	0.34	0.36	0.34														
50	0.17	0.17	0.19	0.17	0.19														
55	0.13	0.11	0.13	0.12	0.14														
60	0.10	0.09	0.11	0.09	0.11														
65	0.08	0.07	0.09	0.07	0.09														
70	0.07	0.06	0.07	0.06	0.08														
75	0.06	0.04	0.07	0.05	0.07														
80	0.05	0.04	0.06	0.04	0.07														
85	0.05	0.04	0.04	0.04	0.05														
90	0.04	0.04	0.04	0.04	0.04														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Cao Chengpei
 Test Date:2016-06-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 Test Distance:5.850m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

24.0	615.8	619.5	643.6	642.2
27.0	386.8	387.3	404.4	403.9
30.0	192.5	189.7	204.8	204.5
33.0	70.26	68.96	74.76	75.61
36.0	20.28	20.23	22.31	21.96
39.0	5.748	5.490	5.770	5.482
42.0	1.173	1.129	1.380	1.259
45.0	0.3314	0.3355	0.3632	0.3441
48.0	0.2022	0.2196	0.2128	0.2174
51.0	0.1554	0.1727	0.1639	0.1748
54.0	0.1256	0.1428	0.1278	0.1407
57.0	0.1022	0.1193	0.1064	0.1193
60.0	0.0873	0.1065	0.0894	0.1065
63.0	0.0745	0.0916	0.0767	0.0959
66.0	0.0681	0.0831	0.0681	0.0852
69.0	0.0618	0.0788	0.0596	0.0810
72.0	0.0532	0.0703	0.0575	0.0746
75.0	0.0447	0.0660	0.0532	0.0682
78.0	0.0426	0.0618	0.0447	0.0660
81.0	0.0426	0.0533	0.0426	0.0618
84.0	0.0426	0.0448	0.0426	0.0596
87.0	0.0426	0.0426	0.0426	0.0469
90.0	0.0426	0.0426	0.0426	0.0447

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2016-06-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 53.0%
 Test Distance: 5.850m [K=1.0000]
 Remarks: