

LED Downlight FUSION Series FF6-FS2-17W-840-24D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	19.61 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

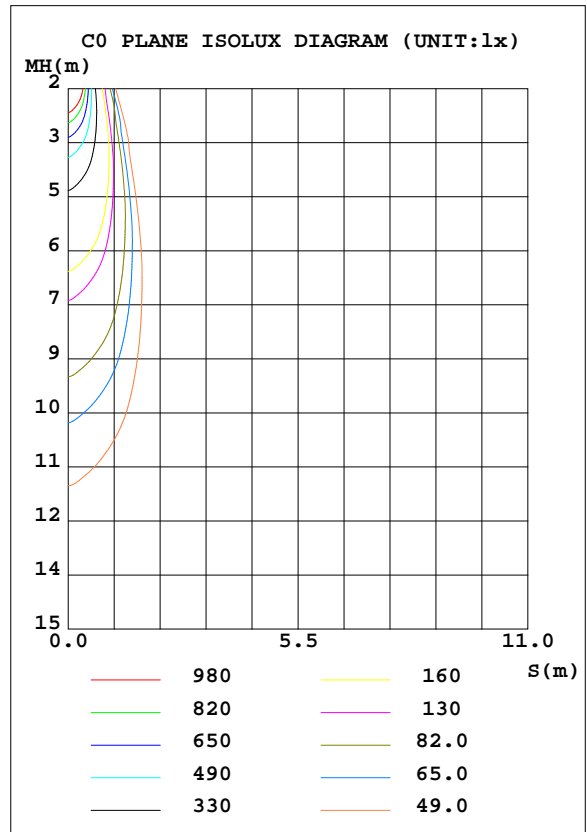
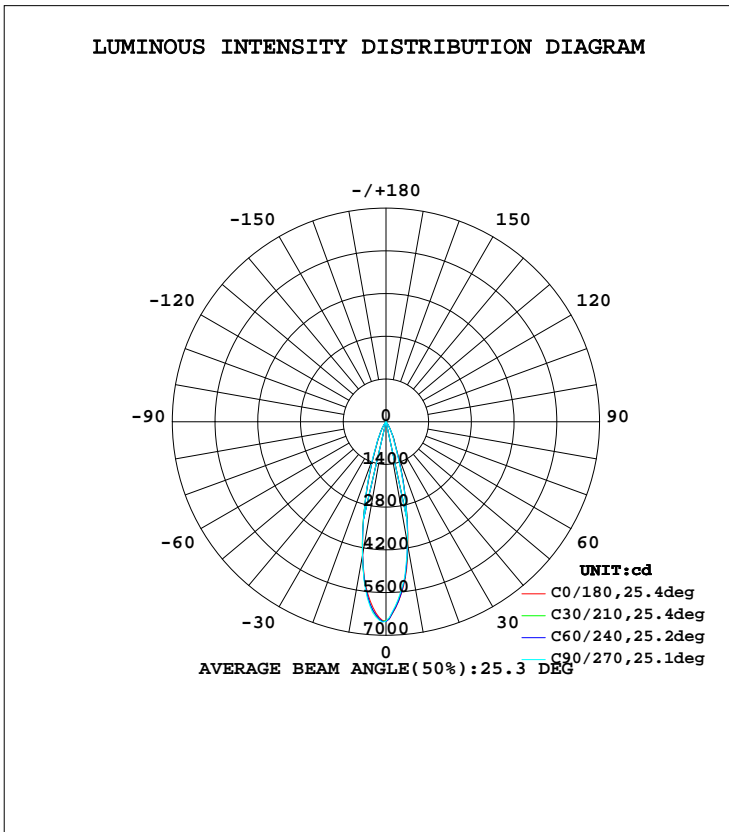
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-11

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:0.0933A P:19.61W PF:0.9531 Lamp Flux:1563.36x1 lm		
NAME: FF6-FS2-17W-840-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.70 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	6571	S/MH(C0/180)	0.44
NOMINAL POWER(W)	20.0	LOR(%)	100.0	S/MH(C90/270)	0.44
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1563.4	η UP, DN(C0-180)	0.0, 47.7
NOMINAL FLUX(lm)	1563.36	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00



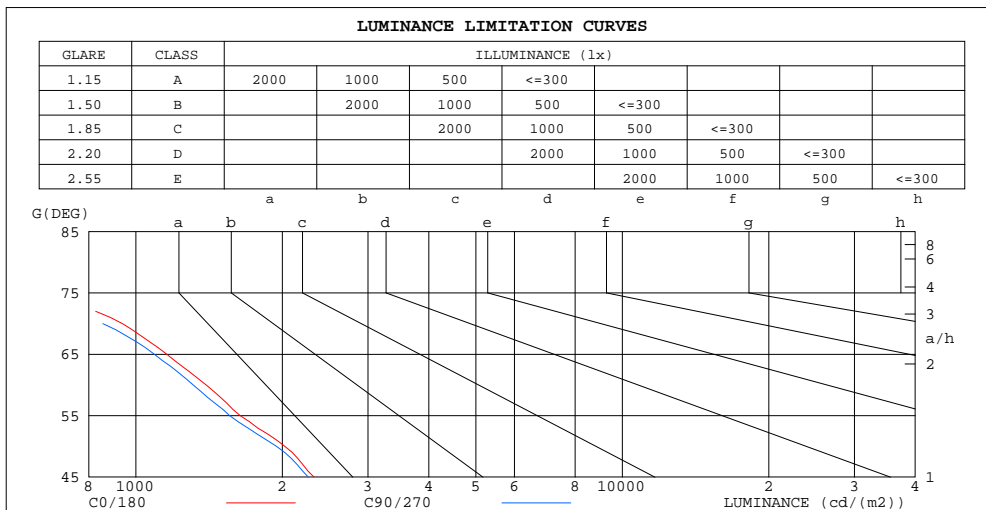
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	4130	4128	4056	4065	4411	4419	4445	4428	0- 10	506.6	506.6	32.4,32.4
20	1123	1107	1026	993.9	1173	1192	1291	1311	10- 20	671.9	1179	75.4,75.4
30	276.3	265.4	252.9	259.8	280.1	270.3	291.7	302.0	20- 30	271.0	1450	92.7,92.7
40	36.43	35.82	33.66	34.22	41.28	43.51	46.67	44.34	30- 40	72.18	1522	97.3,97.3
50	16.99	16.65	16.32	18.24	20.05	20.51	19.76	18.53	40- 50	19.23	1541	98.6,98.6
60	9.102	8.660	8.561	9.357	10.20	10.40	10.36	9.762	50- 60	11.92	1553	99.3,99.3
70	4.187	3.836	3.818	4.404	5.057	5.535	5.540	4.851	60- 70	6.873	1560	99.8,99.8
80	1.248	1.171	1.141	1.306	1.491	1.622	1.638	1.451	70- 80	2.822	1563	100,100
90	0.0700	0.0722	0.0787	0.0765	0.0743	0.1159	0.1115	0.0896	80- 90	0.7064	1563	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	442	405
80	551	503
75	629	576
70	938	855
65	1157	1091
60	1395	1312
55	1639	1559
50	2025	1946
45	2325	2261

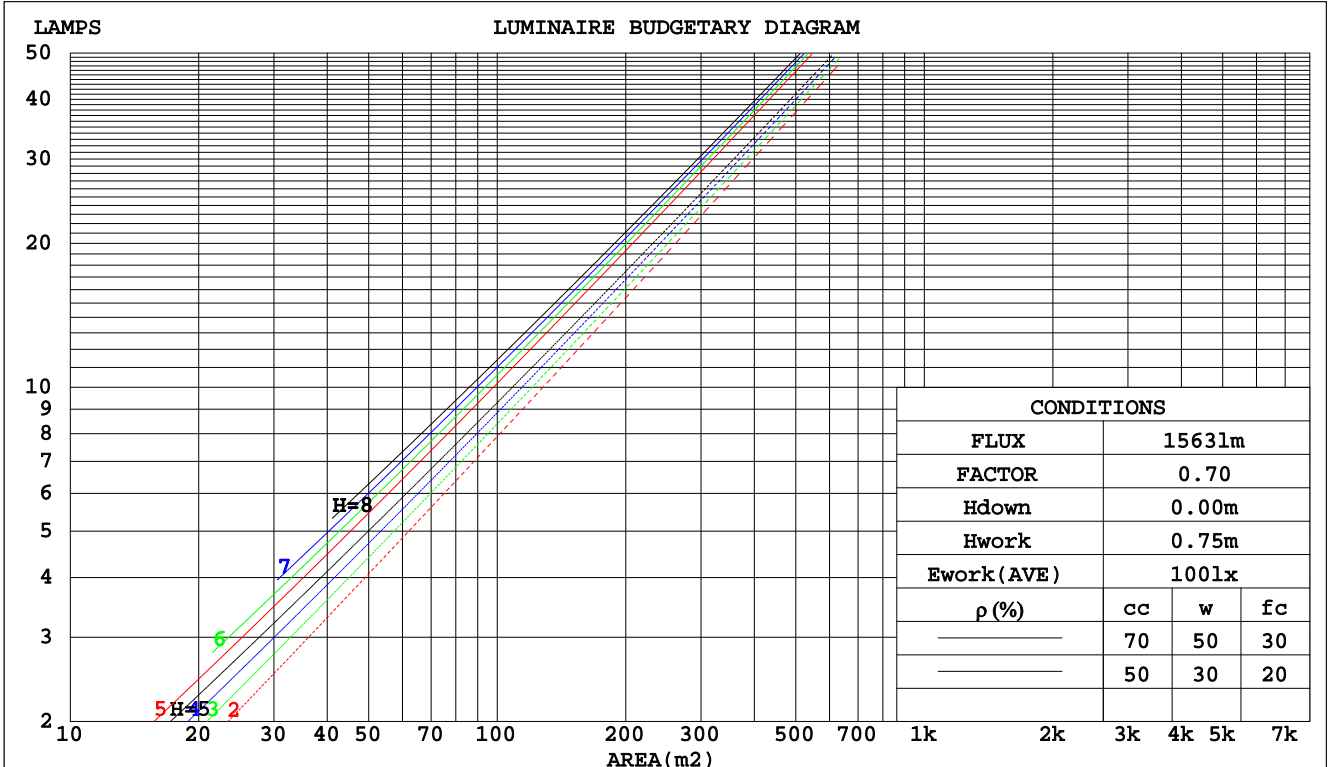
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Humidity:52%
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0933A P:19.61W PF:0.9531 Lamp Flux:1563.36x1 lm		
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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	.00
1.0	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	1.00	1.02	.99	.98	.99	.97	.96	.97	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.95	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.90	.97	.93	.90	.95	.91	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.86	.93	.89	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
6.0	.90	.86	.83	.90	.86	.83	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.84	.81	.79	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.78	.75	.81	.77	.75	.81	.77	.74	.80	.76	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.72	.71



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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	.143	.081	.026	.137	.078	.025	.124	.071	.023	.113	.065	.021	.102	.059	.019	
2.0	.133	.073	.022	.128	.070	.022	.117	.065	.020	.108	.061	.019	.099	.056	.018	
3.0	.124	.066	.020	.120	.064	.019	.111	.060	.018	.103	.057	.017	.096	.053	.016	
4.0	.117	.061	.018	.113	.059	.017	.106	.056	.017	.099	.053	.016	.093	.050	.015	
5.0	.110	.056	.016	.107	.055	.016	.101	.052	.015	.095	.050	.015	.089	.048	.014	
6.0	.104	.052	.015	.101	.051	.015	.096	.049	.014	.091	.047	.014	.086	.045	.013	
7.0	.099	.049	.014	.096	.048	.014	.092	.046	.013	.087	.045	.013	.083	.043	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.084	.043	.012	.081	.041	.012	
9.0	.090	.044	.012	.088	.043	.012	.085	.042	.012	.081	.041	.012	.078	.040	.011	
10.0	.086	.041	.011	.085	.041	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011	

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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.136	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.107	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.079	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.055	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.048	.031	.019	.028	.018	.011	.009	.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	7.4	8.1	7.6	8.3	8.4	7.1	7.8	7.3	7.9	8.1
3H	7.6	8.3	7.9	8.5	8.7	7.3	7.9	7.5	8.1	8.3
4H	7.7	8.3	7.9	8.5	8.7	7.3	7.9	7.5	8.1	8.3
6H	7.6	8.2	7.9	8.5	8.7	7.3	7.8	7.5	8.1	8.3
8H	7.6	8.2	7.9	8.4	8.7	7.2	7.8	7.5	8.0	8.3
12H	7.6	8.1	7.9	8.4	8.7	7.2	7.7	7.5	8.0	8.3
4H 2H	7.4	8.0	7.7	8.2	8.5	7.1	7.7	7.3	7.9	8.1
3H	7.7	8.2	8.0	8.5	8.7	7.3	7.9	7.6	8.1	8.4
4H	7.7	8.2	8.1	8.5	8.8	7.4	7.9	7.7	8.2	8.5
6H	7.7	8.2	8.1	8.5	8.8	7.4	7.8	7.8	8.1	8.5
8H	7.7	8.1	8.1	8.5	8.9	7.4	7.8	7.8	8.1	8.5
12H	7.7	8.1	8.1	8.5	8.8	7.4	7.7	7.8	8.1	8.5
8H 4H	7.7	8.1	8.0	8.4	8.8	7.3	7.7	7.7	8.1	8.4
6H	7.7	8.0	8.1	8.4	8.8	7.3	7.7	7.8	8.1	8.5
8H	7.7	8.0	8.1	8.4	8.9	7.3	7.6	7.8	8.1	8.5
12H	7.7	8.0	8.2	8.4	8.9	7.3	7.6	7.8	8.0	8.5
12H 4H	7.6	8.0	8.0	8.3	8.7	7.3	7.6	7.7	8.0	8.4
6H	7.7	8.0	8.1	8.4	8.8	7.3	7.6	7.7	8.0	8.5
8H	7.7	7.9	8.1	8.4	8.8	7.3	7.6	7.8	8.0	8.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 1.6					+ 1.4 / - 1.5				
1.5H	+ 2.6 / - 1.1					+ 2.4 / - 1.0				
2.0H	+ 1.2 / - 1.1					+ 1.3 / - 1.1				

CIE Pub.117 Corrected 1563 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.6)

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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	89	84	80	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	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	103	108	104	102	105	102	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	115	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

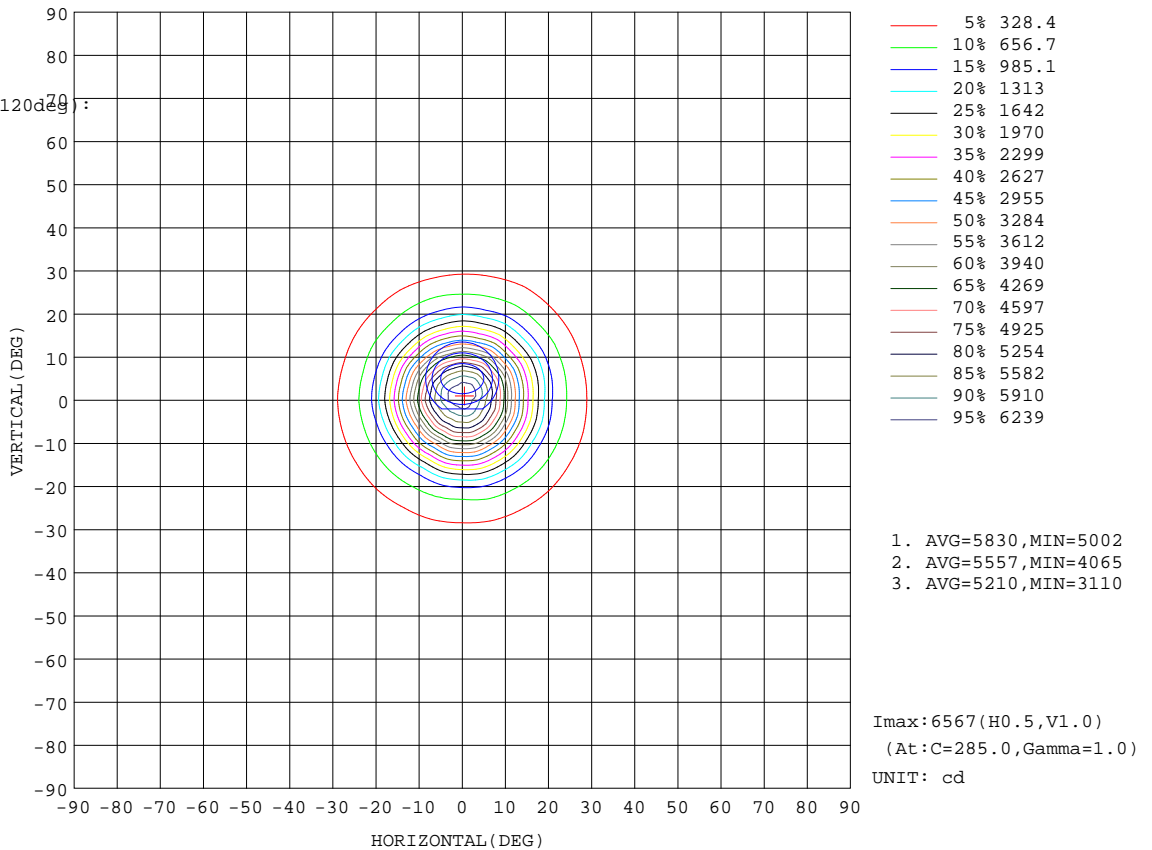
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Conical surface Flux(90deg):

1532.6 lm
%lum = 98.0%
%lamp = 98.0%

Conical surface Flux(120deg):

1553 lm
%lum = 99.3%
%lamp = 99.3%



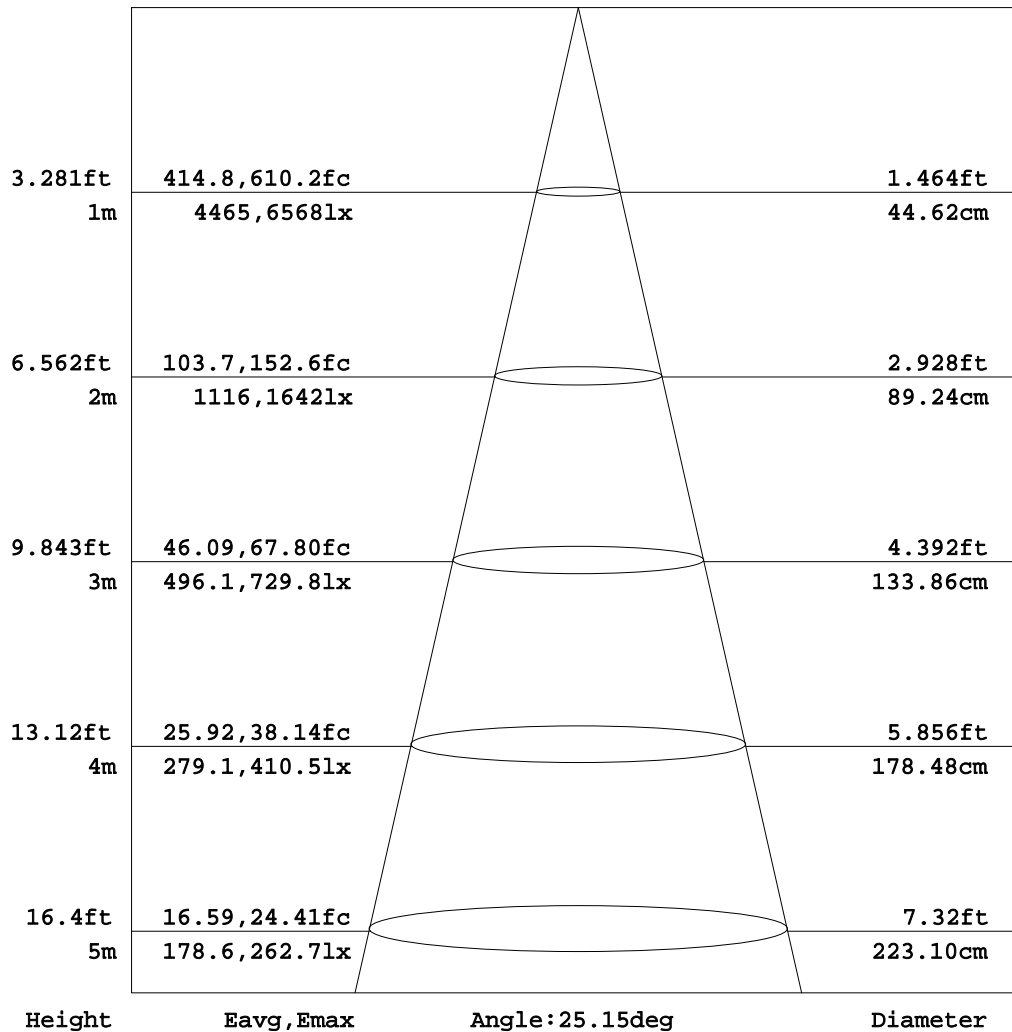
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AAI Figure

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Flux out:747.6 lm



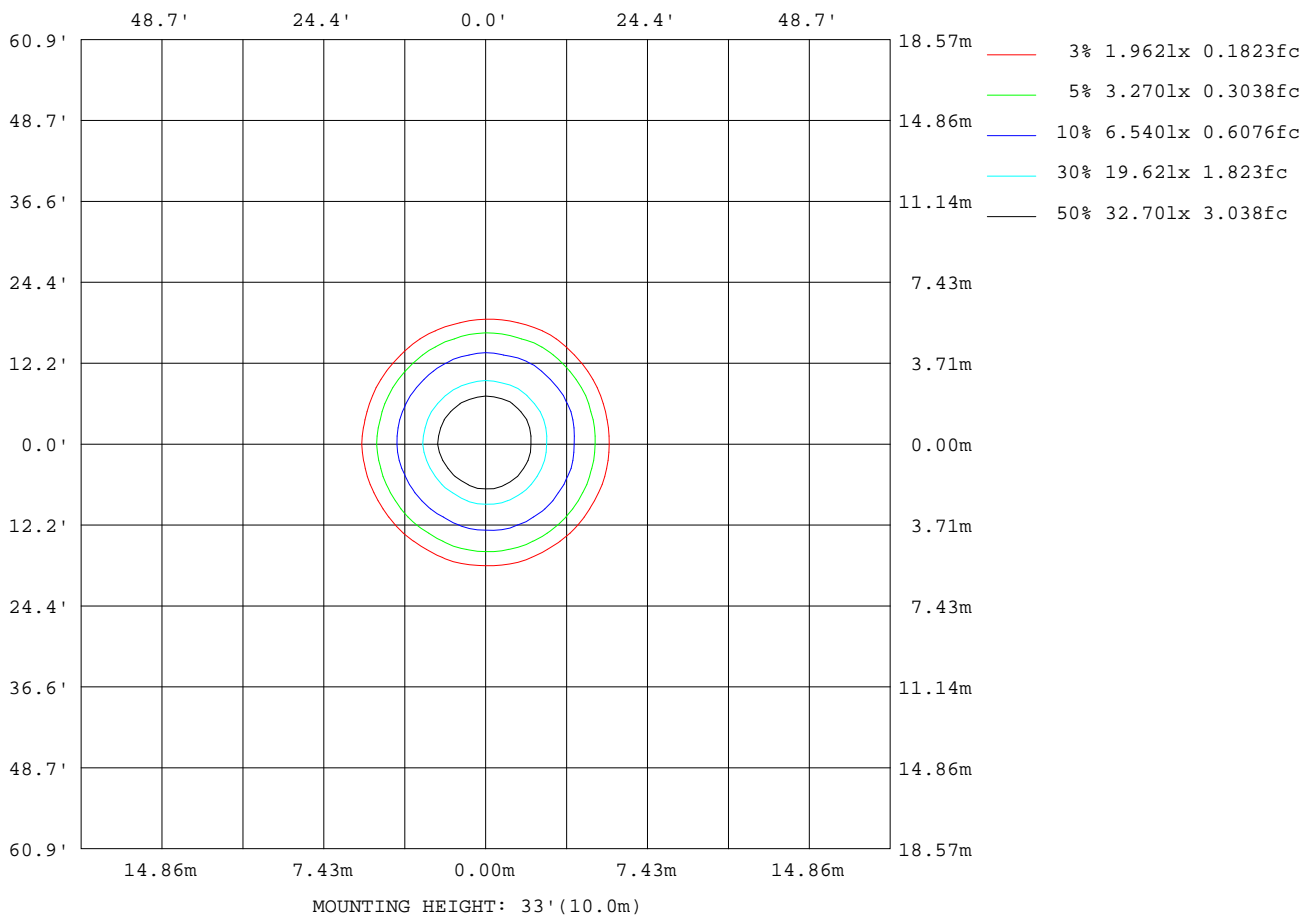
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

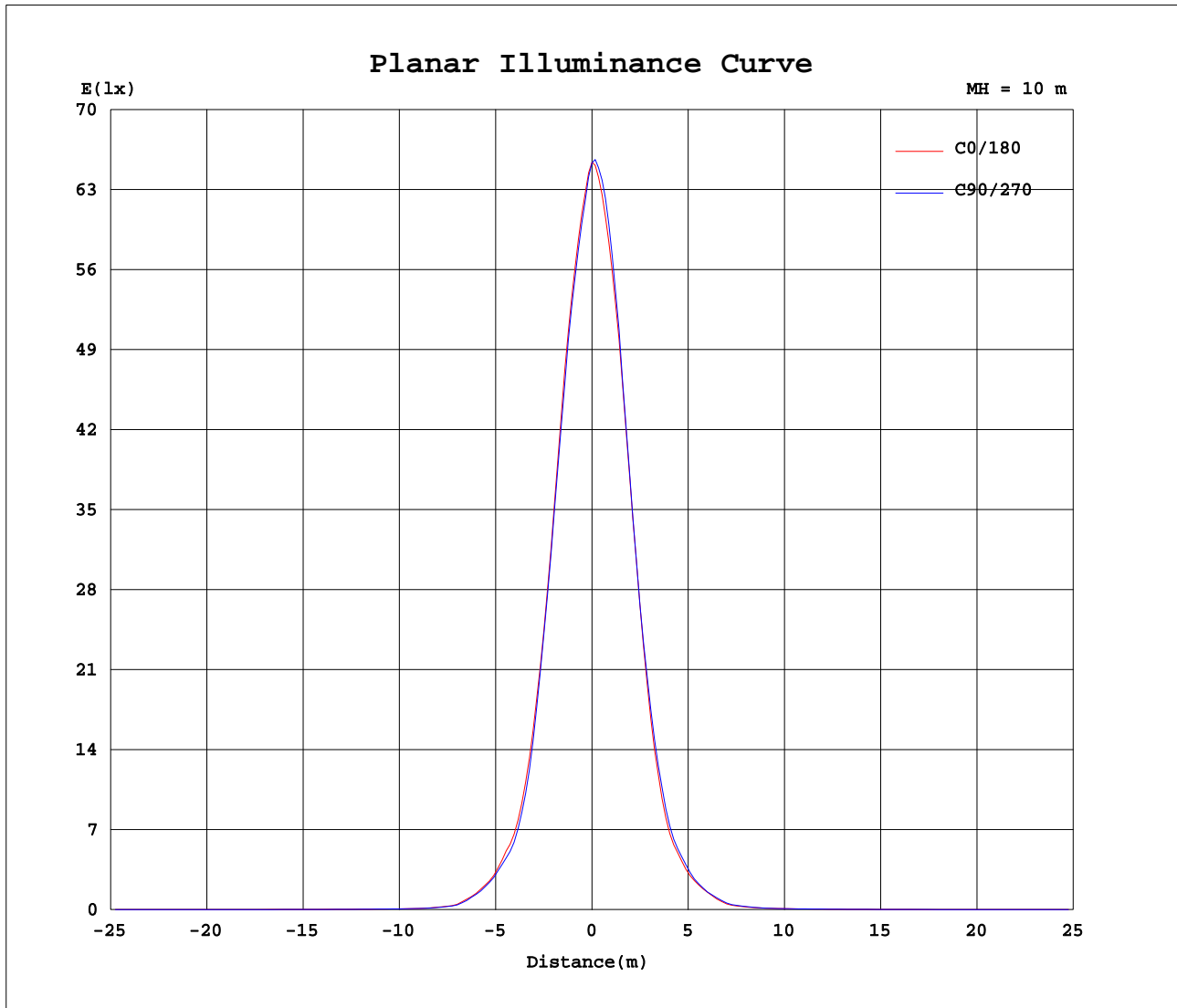
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Planar Illuminance Curve



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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	6540	6531	6522	6538	6544	6539	6535	6536	6508	6521	6522	6535	6540	6531	6522	6538	6544	6539	6535
5	5680	5658	5628	5676	5656	5670	5594	5621	5574	5662	5681	5789	5911	5926	6010	6004	6004	5994	6068
10	4130	4157	4087	4128	4076	4123	4056	4089	3975	4065	4090	4249	4411	4387	4468	4419	4438	4378	4445
15	2369	2393	2361	2385	2357	2383	2318	2319	2192	2285	2303	2437	2563	2528	2597	2559	2587	2561	2599
20	1123	1125	1094	1107	1086	1076	1026	1014	957	994	1015	1066	1173	1170	1208	1192	1235	1225	1291
25	583	585	567	574	561	560	532	536	515	516	529	533	570	552	576	575	605	618	623
30	276	276	263	265	258	263	253	259	251	260	258	268	280	271	273	270	282	279	292
35	85.6	85.9	81.9	83.0	77.2	78.8	75.2	75.7	75.3	81.0	82.9	86.4	91.2	92.0	96.4	94.9	96.7	98.2	105
40	36.4	36.1	35.5	35.8	35.2	35.5	33.7	34.1	32.9	34.2	35.4	37.5	41.3	40.8	43.0	43.5	45.6	45.2	46.7
45	21.5	21.2	21.1	21.1	20.9	21.2	20.9	21.4	22.3	23.3	24.0	24.7	26.0	26.1	26.7	26.9	26.9	26.0	25.7
50	17.0	16.9	16.8	16.7	16.3	16.4	16.3	16.7	17.5	18.2	18.7	19.3	20.0	20.1	20.5	20.5	20.5	20.0	19.8
55	12.3	12.1	11.8	11.8	11.7	11.7	11.7	12.0	12.4	13.0	13.2	13.6	14.1	14.2	14.5	14.3	14.3	14.0	14.1
60	9.10	8.92	8.69	8.66	8.54	8.60	8.56	8.87	9.04	9.36	9.49	9.82	10.2	10.3	10.4	10.4	10.5	10.3	10.4
65	6.38	6.21	6.01	6.03	5.91	5.98	6.02	6.26	6.43	6.60	6.74	7.04	7.40	7.51	7.74	7.80	7.92	7.85	7.77
70	4.19	4.03	3.83	3.84	3.76	3.82	3.82	3.99	4.17	4.40	4.47	4.74	5.06	5.24	5.48	5.54	5.61	5.50	5.54
75	2.12	2.09	2.02	2.00	1.96	1.97	1.95	1.99	2.07	2.22	2.31	2.49	2.72	2.78	2.93	2.91	2.96	2.79	2.83
80	1.25	1.23	1.19	1.17	1.15	1.16	1.14	1.18	1.23	1.31	1.35	1.41	1.49	1.54	1.60	1.62	1.64	1.63	1.64
85	0.50	0.51	0.48	0.48	0.46	0.48	0.46	0.49	0.53	0.58	0.62	0.66	0.69	0.73	0.77	0.78	0.80	0.78	0.79
90	0.07	0.07	0.08	0.07	0.07	0.07	0.08	0.07	0.08	0.08	0.08	0.08	0.07	0.09	0.09	0.12	0.11	0.11	0.11

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-11

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:0.0933A P:19.61W PF:0.9531 Lamp Flux:1563.36x1 lm		
NAME: FF6-FS2-17W-840-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG)\ γ (DEG)	285	300	315	330	345														
0	6536	6508	6521	6522	6535														
5	6057	6115	6020	5959	5877														
10	4420	4535	4428	4416	4258														
15	2562	2679	2584	2589	2469														
20	1271	1362	1311	1319	1239														
25	637	667	641	652	617														
30	301	317	302	296	284														
35	103	120	105	102	90.3														
40	45.7	48.0	44.3	43.3	38.9														
45	25.0	24.4	23.6	22.9	21.9														
50	19.4	19.2	18.5	18.1	17.3														
55	13.8	13.7	13.1	12.7	12.3														
60	10.2	10.1	9.76	9.52	9.23														
65	7.70	7.48	7.11	6.82	6.55														
70	5.41	5.16	4.85	4.58	4.31														
75	2.69	2.62	2.43	2.34	2.21														
80	1.59	1.54	1.45	1.40	1.31														
85	0.76	0.71	0.65	0.62	0.56														
90	0.11	0.10	0.09	0.07	0.06														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-11

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	733.6	718.4	706.2	700.5
27.0	484.6	461.2	461.9	438.8
30.0	317.1	302.0	295.6	283.6
33.0	186.4	176.1	171.6	158.0
36.0	85.07	78.64	75.31	70.22
39.0	56.67	53.46	52.14	48.70
42.0	32.72	30.69	29.66	27.74
45.0	24.42	23.56	22.89	21.87
48.0	21.06	20.49	20.07	19.24
51.0	18.06	17.37	17.01	16.25
54.0	14.63	14.04	13.78	13.21
57.0	11.97	11.58	11.31	10.98
60.0	10.13	9.762	9.524	9.227
63.0	8.484	8.121	7.836	7.574
66.0	6.992	6.644	6.353	6.078
69.0	5.603	5.284	5.026	4.726
72.0	4.269	4.012	3.727	3.489
75.0	2.623	2.427	2.344	2.215
78.0	1.902	1.808	1.754	1.650
81.0	1.362	1.280	1.238	1.156
84.0	0.8640	0.8018	0.7656	0.7032
87.0	0.4075	0.3598	0.3266	0.2920
90.0	0.0984	0.0896	0.0678	0.0612

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-11

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: