

LED Downlight FUSION Series FS3-7W-830-30D



Light Output Ratio:	100.0%	
Luminaire Power:	8.198 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

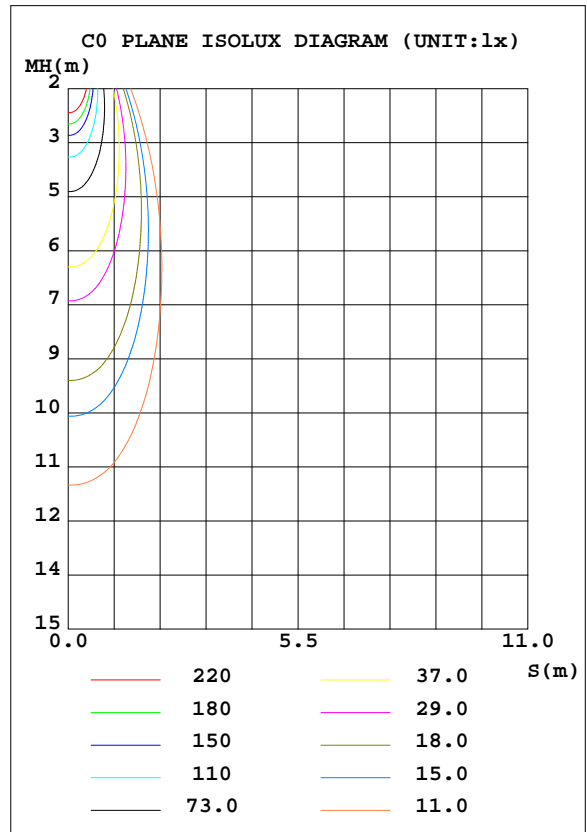
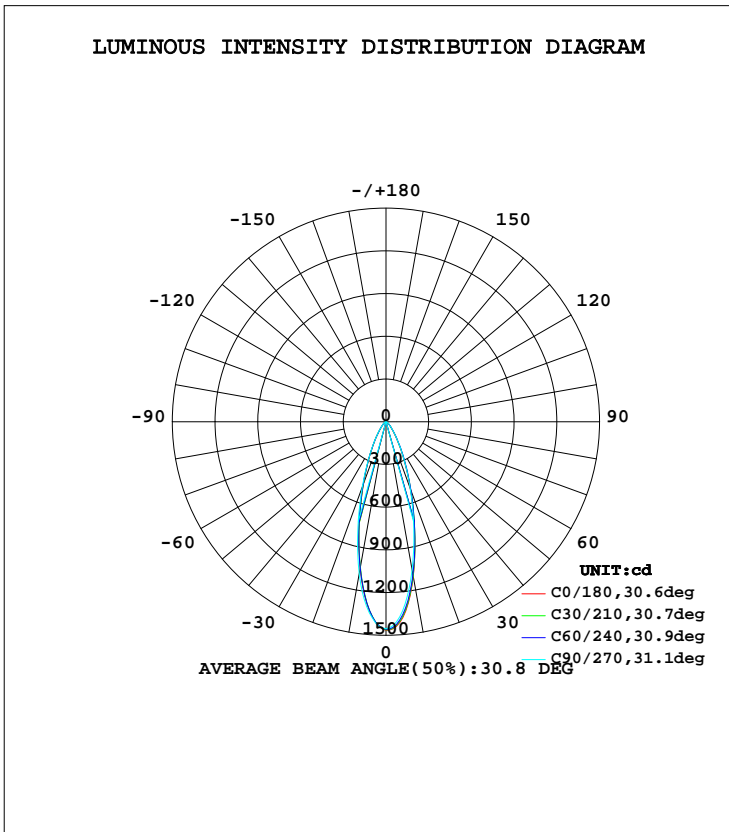
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2017-01-07

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:0.0455A P:8.198W PF:0.8168 Lamp Flux:594.445x1 lm		
NAME: FS3-7W-830-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L152mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.51 lm/W			
MODEL	CREE-3000K	I _{max} (cd)	1463	S/MH(C0/180)	0.49
NOMINAL POWER(W)	9.0	LOR(%)	100.0	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	594.44	η UP, DN(C0-180)	0.0, 50.0
NOMINAL FLUX(lm)	594.445	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.0
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



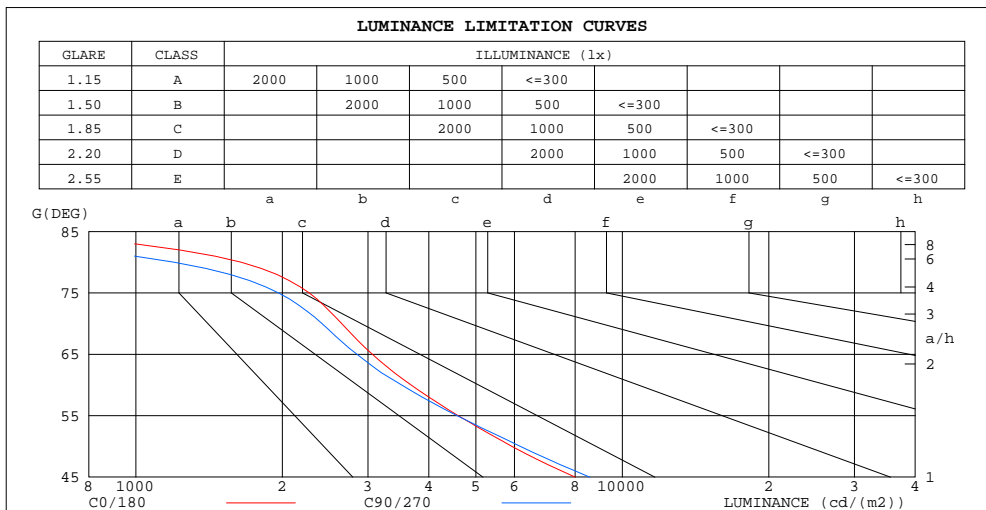
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1104	1102	1057	1024	1047	1034	1084	1130	0- 10	119.6	119.6	20.1,20.1
20	502.5	515.3	499.1	457.8	463.4	467.4	487.1	510.6	10- 20	207.4	327.0	55,55
30	179.4	191.3	186.2	169.2	166.2	169.5	171.7	182.0	20- 30	139.2	466.2	78.4,78.4
40	61.15	67.44	66.30	62.51	59.31	59.03	60.09	62.90	30- 40	66.88	533.1	89.7,89.7
50	26.08	28.28	27.13	26.24	25.28	25.15	25.82	26.46	40- 50	31.37	564.5	95,95
60	12.58	12.62	12.03	11.76	11.92	12.32	12.82	13.11	50- 60	16.37	580.8	97.7,97.7
70	6.200	5.882	5.646	5.548	5.930	6.394	6.729	6.708	60- 70	8.799	589.6	99.2,99.2
80	1.954	1.660	1.423	1.356	1.666	2.023	2.334	2.391	70- 80	4.172	593.8	99.9,99.9
90	0.0447	0.0341	0.0426	0.0362	0.0213	0.0383	0.0703	0.1001	80- 90	0.6300	594.4	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	597	417
80	1645	1198
75	2271	1964
70	2650	2413
65	3062	2846
60	3680	3517
55	4595	4574
50	5931	6171
45	7999	8569

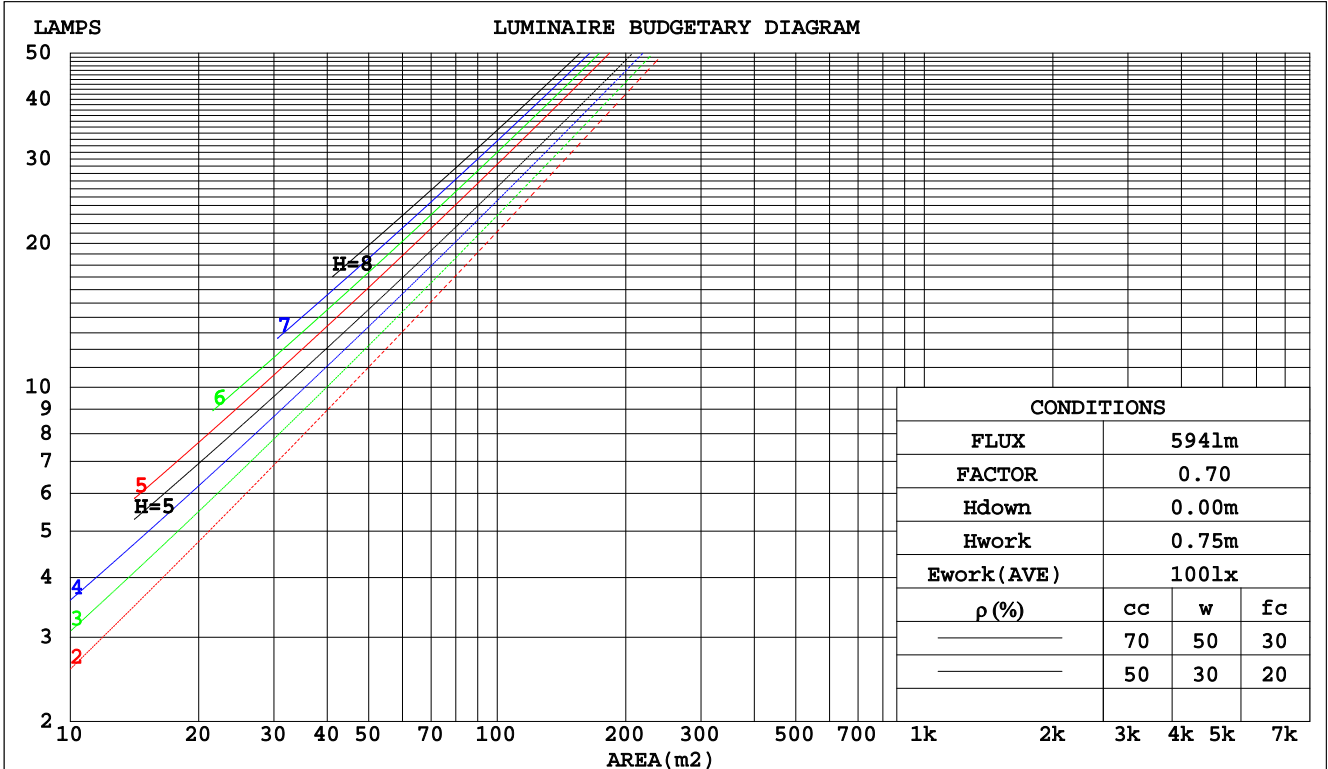
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.8V I:0.0455A P:8.198W PF:0.8168 Lamp Flux:594.445x1 lm		
NAME: FS3-7W-830-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L152mm*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	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.88	.94	.90	.87	.91	.88	.86	.89	.86	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.83	.77	.73	.82	.77	.73	.80	.76	.72	.79	.75	.72	.78	.74	.71	.70
7.0	.79	.73	.69	.78	.73	.69	.77	.72	.69	.75	.71	.68	.74	.71	.68	.67
8.0	.75	.69	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.71	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.66	.62	.59	.58



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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	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.081	.026	.130	.076	.024	
2.0	.163	.089	.027	.157	.087	.027	.147	.082	.025	.137	.077	.024	.128	.072	.023	
3.0	.154	.082	.024	.149	.080	.024	.140	.076	.023	.132	.072	.022	.124	.069	.021	
4.0	.145	.075	.022	.141	.074	.022	.133	.071	.021	.126	.068	.020	.119	.065	.020	
5.0	.137	.070	.020	.133	.068	.020	.127	.066	.019	.121	.064	.019	.115	.061	.018	
6.0	.130	.065	.019	.127	.064	.018	.121	.062	.018	.115	.060	.018	.110	.058	.017	
7.0	.123	.061	.017	.121	.060	.017	.115	.058	.017	.111	.057	.017	.106	.055	.016	
8.0	.117	.057	.016	.115	.057	.016	.110	.055	.016	.106	.054	.016	.102	.052	.015	
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.068	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.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

Test:U:220.8V I:0.0455A P:8.198W PF:0.8168 Lamp Flux:594.445x1 lm		
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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	14.5	15.3	14.7	15.5	15.6	14.6	15.4	14.8	15.6	15.8
3H	14.8	15.6	15.0	15.8	16.0	14.8	15.6	15.1	15.8	16.0
4H	14.9	15.6	15.2	15.9	16.1	14.9	15.7	15.2	15.9	16.1
6H	14.9	15.6	15.2	15.9	16.1	14.9	15.6	15.2	15.9	16.1
8H	14.9	15.6	15.2	15.9	16.1	14.9	15.6	15.2	15.8	16.1
12H	14.9	15.5	15.2	15.8	16.1	14.8	15.5	15.1	15.8	16.0
4H 2H	14.5	15.3	14.8	15.5	15.7	14.6	15.4	14.9	15.6	15.8
3H	14.9	15.6	15.2	15.9	16.1	15.0	15.6	15.3	15.9	16.2
4H	15.1	15.7	15.5	16.0	16.3	15.1	15.7	15.4	16.0	16.3
6H	15.2	15.8	15.6	16.1	16.4	15.1	15.7	15.5	16.0	16.4
8H	15.2	15.7	15.6	16.1	16.4	15.1	15.6	15.5	16.0	16.3
12H	15.2	15.6	15.6	16.0	16.4	15.1	15.5	15.5	15.9	16.3
8H 4H	15.1	15.6	15.5	16.0	16.3	15.1	15.6	15.5	15.9	16.3
6H	15.2	15.6	15.7	16.0	16.5	15.2	15.6	15.6	16.0	16.4
8H	15.2	15.6	15.7	16.0	16.5	15.1	15.5	15.6	15.9	16.3
12H	15.2	15.5	15.7	15.9	16.4	15.1	15.4	15.5	15.8	16.3
12H 4H	15.1	15.5	15.5	15.9	16.3	15.0	15.5	15.5	15.9	16.3
6H	15.2	15.6	15.6	16.0	16.4	15.1	15.5	15.6	15.9	16.3
8H	15.2	15.5	15.7	16.0	16.4	15.1	15.4	15.6	15.8	16.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.7					+ 1.3 / - 2.0				
1.5H	+ 1.8 / - 1.2					+ 2.1 / - 1.4				
2.0H	+ 2.0 / - 1.5					+ 2.3 / - 1.7				

CIE Pub.117 Corrected 594.4 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.8)

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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	85	78	74	85	78	74	84	78	74	70
0.80	93	86	82	92	86	82	91	86	82	78
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	92	101	96	92	99	94	91	87
1.50	105	100	96	103	99	95	101	97	94	90
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	108	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

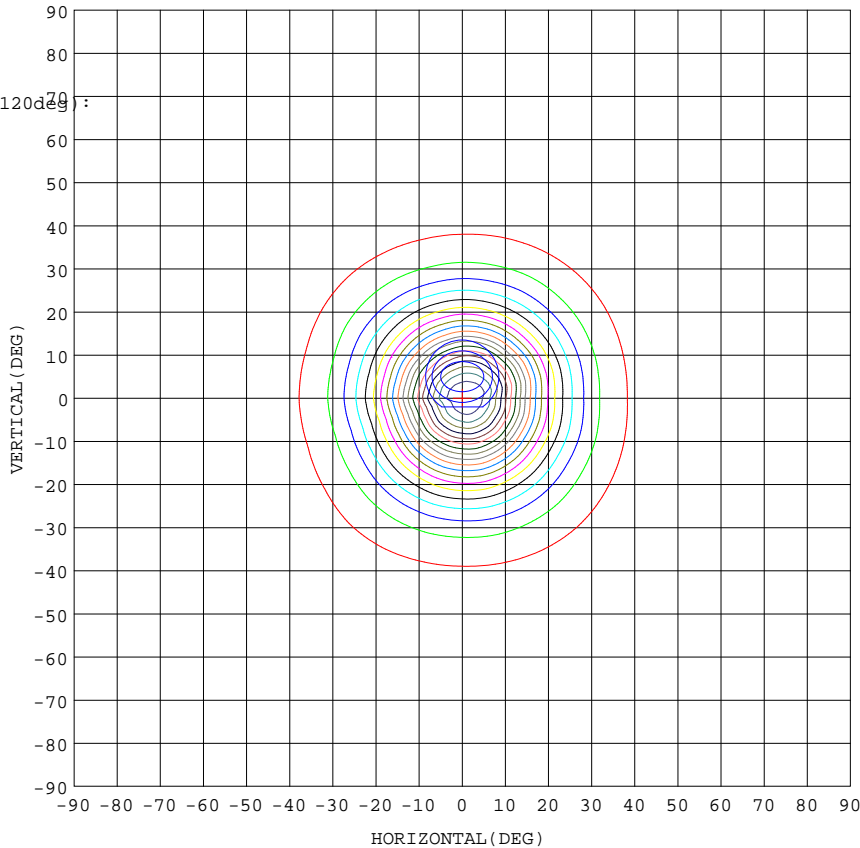
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Conical surface Flux(90deg):

551.46 lm
%lum = 92.8%
%lamp = 92.8%

Conical surface Flux(120deg):

580.84 lm
%lum = 97.7%
%lamp = 97.7%



1. AVG=1314,MIN=1154
2. AVG=1276,MIN=1008
3. AVG=1222,MIN=854.4

Imax:1463(H0.0,V0.0)
(At:C=0.0,Gamma=0.0)
UNIT: cd

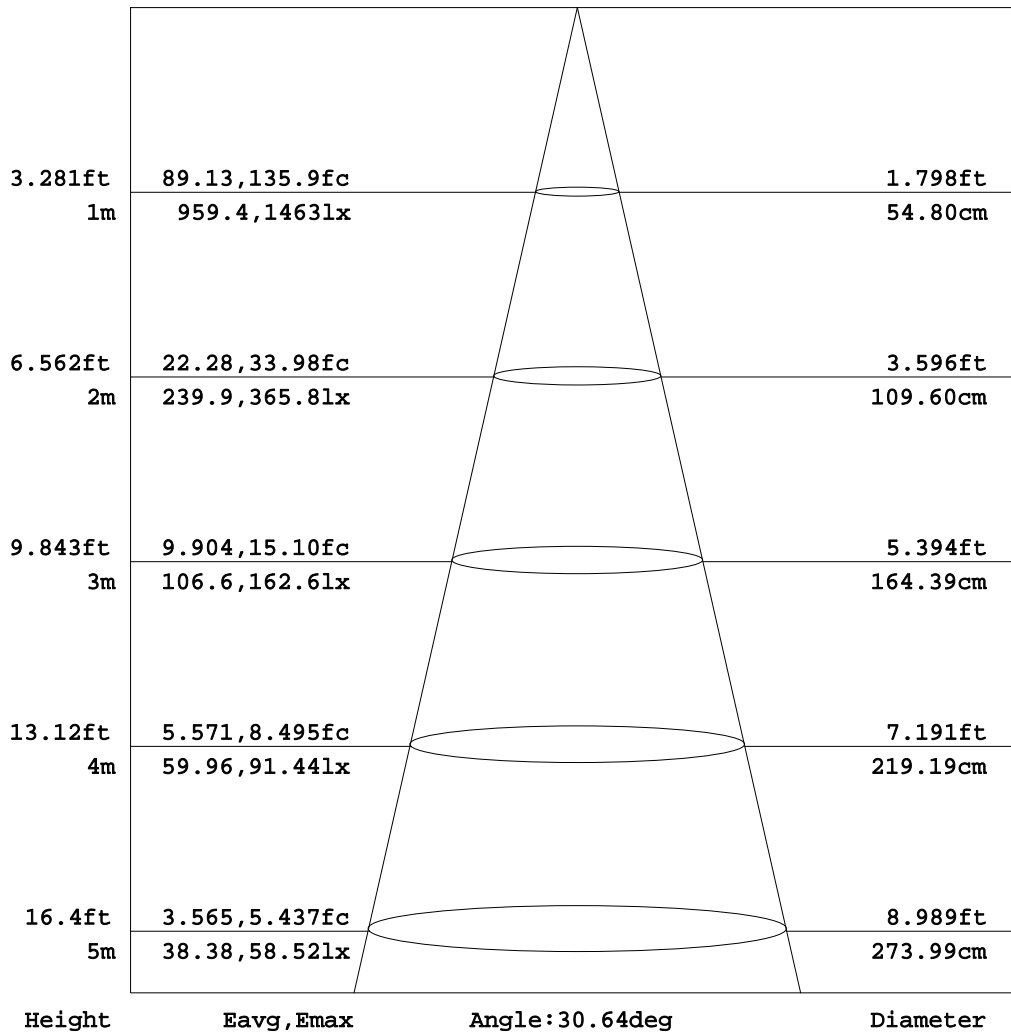
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AAI Figure

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Flux out:247.8 lm



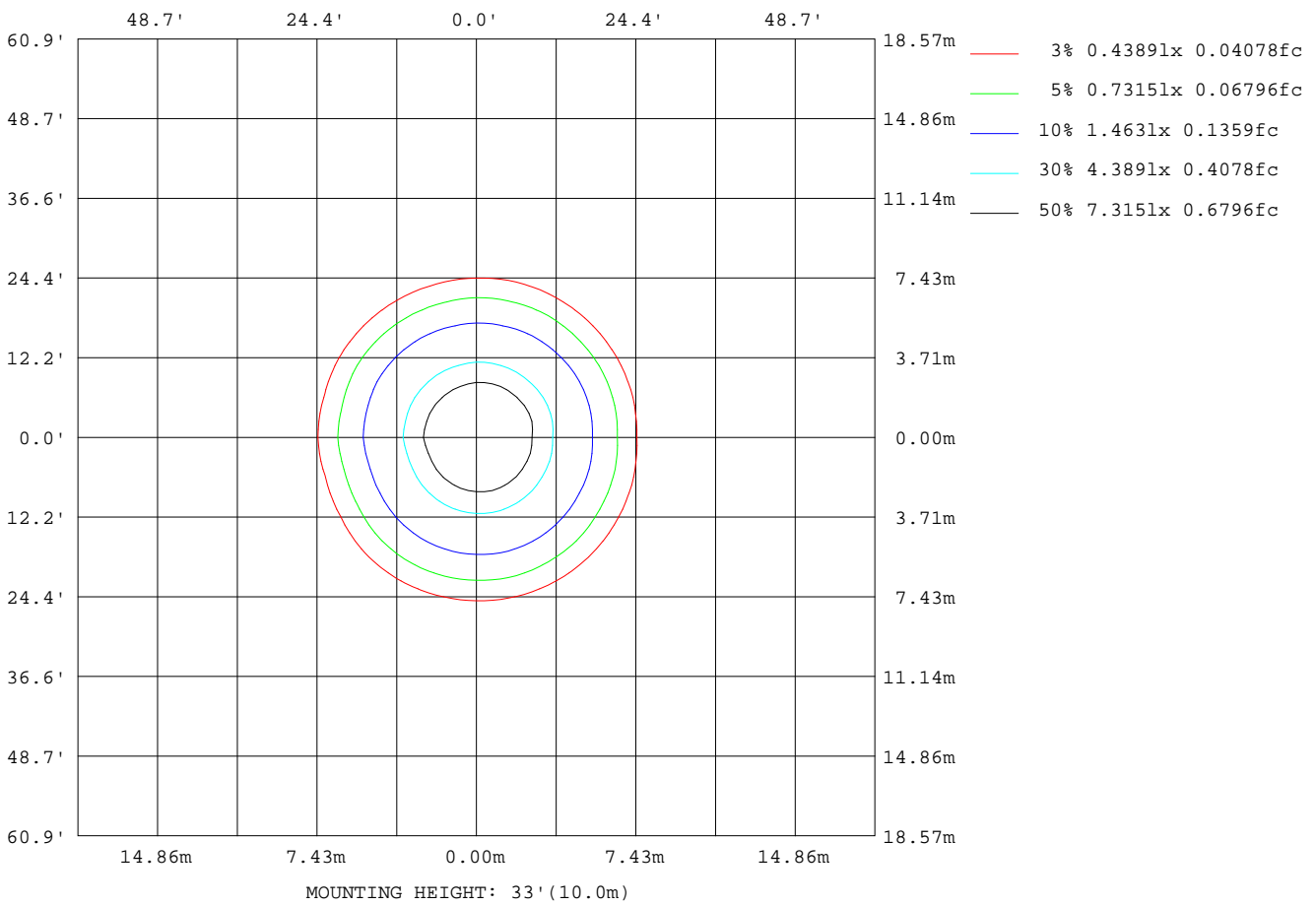
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

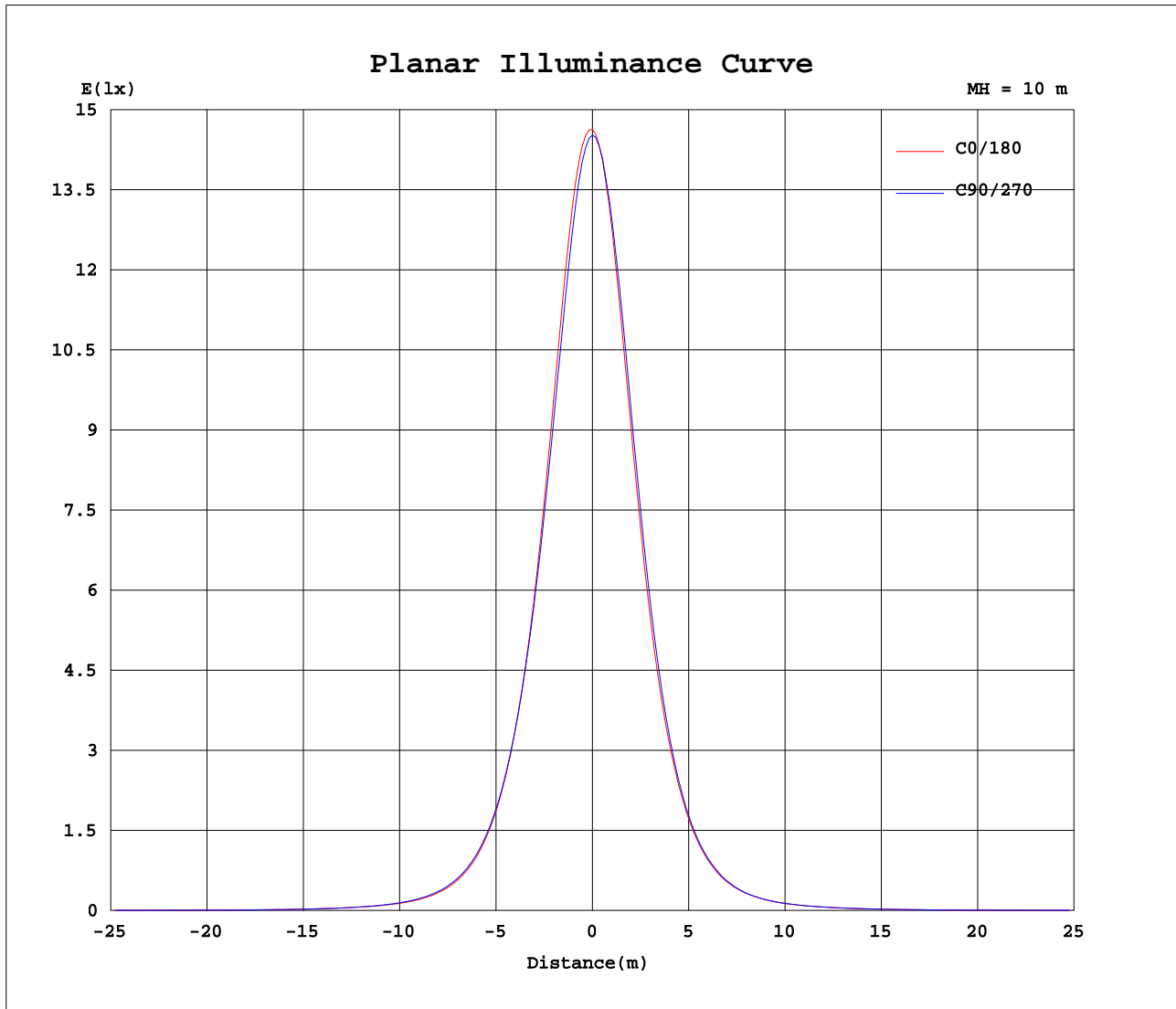
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Planar Illuminance Curve



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Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	1463	1461	1461	1459	1457	1456	1452	1451	1449	1450
3.0	1437	1438	1431	1431	1425	1421	1408	1398	1394	1387
6.0	1335	1338	1326	1325	1315	1308	1288	1279	1268	1262
9.0	1168	1174	1162	1165	1152	1143	1118	1108	1095	1089
12.0	972.5	980.8	972.0	975.1	963.9	955.7	934.5	919.8	902.9	893.8
15.0	776.1	787.1	780.0	784.5	778.9	775.0	755.1	741.5	722.5	709.7
18.0	603.2	612.6	609.2	614.1	612.9	610.1	594.8	582.2	564.6	550.0
21.0	457.3	466.5	464.3	470.6	469.8	468.2	455.8	446.4	430.9	417.5
24.0	339.6	348.8	347.4	353.7	354.4	352.2	343.5	336.0	323.8	311.5
27.0	248.3	256.5	255.8	261.7	262.8	261.2	254.2	248.4	240.3	230.2
30.0	179.4	185.8	186.4	191.3	191.8	191.6	186.2	182.2	176.8	169.2
33.0	128.8	134.5	135.1	138.8	138.7	138.9	135.4	133.8	130.0	124.9
36.0	92.72	96.40	98.34	100.7	101.1	101.0	98.84	97.28	95.80	91.91
39.0	67.75	70.96	72.67	74.44	74.74	74.34	72.86	72.03	71.16	68.82
42.0	50.62	53.19	54.48	55.93	55.98	55.68	54.42	54.17	53.52	51.96
45.0	38.69	40.68	41.62	42.83	42.75	42.50	41.45	41.39	40.82	39.90
48.0	30.34	31.77	32.42	33.28	33.23	32.92	32.01	31.94	31.49	30.96
51.0	24.22	25.13	25.48	26.11	25.96	25.74	25.00	24.90	24.56	24.19
54.0	19.42	19.93	20.08	20.49	20.24	20.07	19.50	19.46	19.19	18.92
57.0	15.61	15.86	15.81	16.02	15.80	15.67	15.25	15.23	15.04	14.84
60.0	12.58	12.68	12.56	12.62	12.40	12.30	12.03	12.00	11.86	11.76
63.0	10.18	10.18	9.979	9.986	9.802	9.726	9.535	9.497	9.399	9.360
66.0	8.253	8.203	8.017	7.967	7.836	7.771	7.633	7.597	7.531	7.499
69.0	6.675	6.591	6.426	6.357	6.253	6.204	6.108	6.069	6.023	5.997
72.0	5.293	5.241	5.067	5.009	4.890	4.864	4.756	4.736	4.677	4.678
75.0	4.021	3.978	3.797	3.738	3.618	3.589	3.477	3.465	3.407	3.407
78.0	2.774	2.726	2.552	2.483	2.367	2.329	2.224	2.202	2.158	2.153
81.0	1.555	1.492	1.342	1.269	1.178	1.139	1.063	1.041	1.022	1.003
84.0	0.5446	0.4693	0.4121	0.3908	0.3962	0.3758	0.3705	0.3566	0.3578	0.3269
87.0	0.2138	0.1785	0.1754	0.1380	0.1456	0.1125	0.1221	0.0956	0.1136	0.0892
90.0	0.0447	0.0320	0.0362	0.0341	0.0383	0.0383	0.0426	0.0405	0.0426	0.0362
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1450	1453	1463	1461	1461	1459	1457	1456	1452	1451
3.0	1380	1380	1412	1404	1409	1405	1408	1407	1415	1419
6.0	1245	1246	1288	1276	1281	1276	1281	1287	1304	1317
9.0	1068	1066	1111	1096	1102	1098	1106	1118	1146	1164
12.0	872.5	873.9	917.6	903.1	909.6	905.5	915.9	928.0	953.4	972.1
15.0	689.4	687.4	726.4	713.0	721.7	722.2	731.2	739.5	762.5	776.8
18.0	530.6	525.6	558.3	549.6	558.7	561.3	566.7	570.7	588.6	599.8
21.0	400.9	395.2	421.2	416.0	424.4	425.6	429.7	430.7	441.1	448.1
24.0	297.9	292.7	313.6	310.4	317.5	318.4	320.0	318.6	325.5	330.1
27.0	217.9	213.5	229.2	227.1	233.9	233.7	233.7	232.0	237.1	241.0
30.0	158.7	155.2	166.2	164.2	170.2	169.5	169.1	167.8	171.7	174.3
33.0	115.6	112.5	120.0	118.7	123.8	122.4	121.1	121.0	125.1	126.3
36.0	85.24	82.96	87.96	86.47	88.69	88.65	87.87	87.89	90.09	92.11
39.0	64.10	61.88	65.27	64.35	65.22	65.58	64.75	65.21	66.32	67.76
42.0	48.51	47.00	49.24	48.28	48.98	48.86	48.72	48.83	49.79	50.69
45.0	37.39	36.28	37.78	37.12	37.57	37.43	37.51	37.53	38.30	38.79
48.0	29.20	28.42	29.56	29.11	29.33	29.30	29.39	29.42	30.03	30.31
51.0	22.99	22.46	23.39	23.07	23.29	23.35	23.45	23.51	24.00	24.20
54.0	18.12	17.76	18.59	18.44	18.68	18.76	18.87	19.00	19.38	19.54
57.0	14.32	14.12	14.82	14.75	15.04	15.15	15.33	15.40	15.73	15.87
60.0	11.41	11.33	11.92	11.94	12.21	12.32	12.51	12.58	12.82	12.96
63.0	9.149	9.152	9.708	9.750	10.01	10.14	10.32	10.40	10.58	10.67
66.0	7.367	7.418	7.893	7.972	8.221	8.364	8.543	8.626	8.769	8.820
69.0	5.904	5.961	6.381	6.478	6.705	6.855	7.022	7.110	7.220	7.260
72.0	4.583	4.670	5.067	5.132	5.359	5.492	5.657	5.733	5.836	5.854
75.0	3.318	3.410	3.790	3.862	4.075	4.190	4.348	4.416	4.522	4.533
78.0	2.067	2.146	2.507	2.577	2.782	2.894	3.031	3.097	3.210	3.242
81.0	0.9346	0.9686	1.268	1.326	1.510	1.601	1.718	1.786	1.902	1.965
84.0	0.3065	0.2932	0.3631	0.3985	0.4689	0.5587	0.6106	0.6932	0.7913	0.8893
87.0	0.1050	0.0933	0.1314	0.1667	0.1697	0.2030	0.1995	0.2350	0.2294	0.2673
90.0	0.0362	0.0341	0.0213	0.0234	0.0234	0.0383	0.0362	0.0639	0.0703	0.0980
G/C	300.0	315.0	330.0	345.0						
0.0	1449	1450	1450	1453						
3.0	1425	1434	1444	1447						
6.0	1332	1344	1362	1364						
9.0	1182	1192	1210	1208						
12.0	990.9	998.4	1017	1014						
15.0	792.4	800.3	817.8	814.5						
18.0	610.0	618.6	634.1	629.0						
21.0	456.1	463.6	476.0	476.2						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2017-01-07

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	338.4	344.5	353.7	352.9
27.0	248.0	251.9	258.4	257.5
30.0	180.0	182.0	185.9	185.4
33.0	130.5	131.1	133.5	132.7
36.0	93.45	94.41	95.18	95.11
39.0	68.74	69.17	69.69	69.17
42.0	51.40	51.58	51.79	51.37
45.0	39.20	39.41	39.41	39.11
48.0	30.64	30.79	30.76	30.57
51.0	24.52	24.57	24.59	24.49
54.0	19.80	19.84	19.88	19.77
57.0	16.03	16.09	16.15	16.03
60.0	13.09	13.11	13.16	13.02
63.0	10.74	10.75	10.79	10.64
66.0	8.852	8.816	8.834	8.663
69.0	7.244	7.202	7.195	7.049
72.0	5.844	5.784	5.789	5.650
75.0	4.533	4.480	4.495	4.369
78.0	3.250	3.218	3.236	3.118
81.0	1.985	1.978	2.000	1.897
84.0	0.8913	0.8999	0.8829	0.8063
87.0	0.2528	0.2781	0.2635	0.2649
90.0	0.0873	0.1001	0.0895	0.0660

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Cao Chengpei
 Test Date: 2017-01-07

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: