

LED Downlight FUSION Series FS2-4W-830-30D



Light Output Ratio:	100.0%	
Luminaire Power:	5.724 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

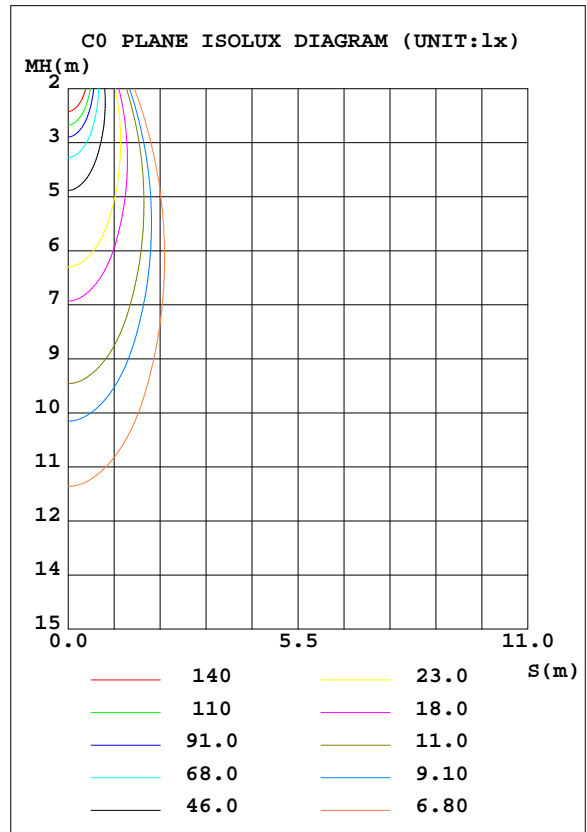
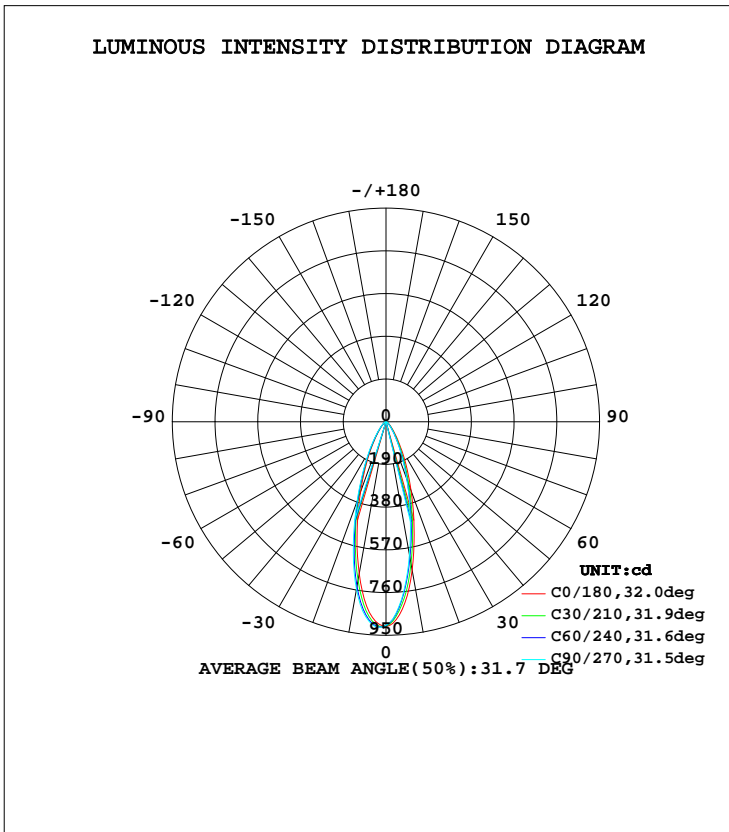
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2017-01-06

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:0.0329A P:5.724W PF:0.7877 Lamp Flux:393.514x1 lm		
NAME: FS2-4W-830-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.75 lm/W
MODEL	CREE-3000K	I _{max} (cd)	915.2	S/MH(C0/180)	0.53	
NOMINAL POWER(W)	6.0	LOR(%)	100.0	S/MH(C90/270)	0.58	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	393.51	η UP, DN(C0-180)	0.0, 45.1	
NOMINAL FLUX(lm)	393.514	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 54.9	
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	



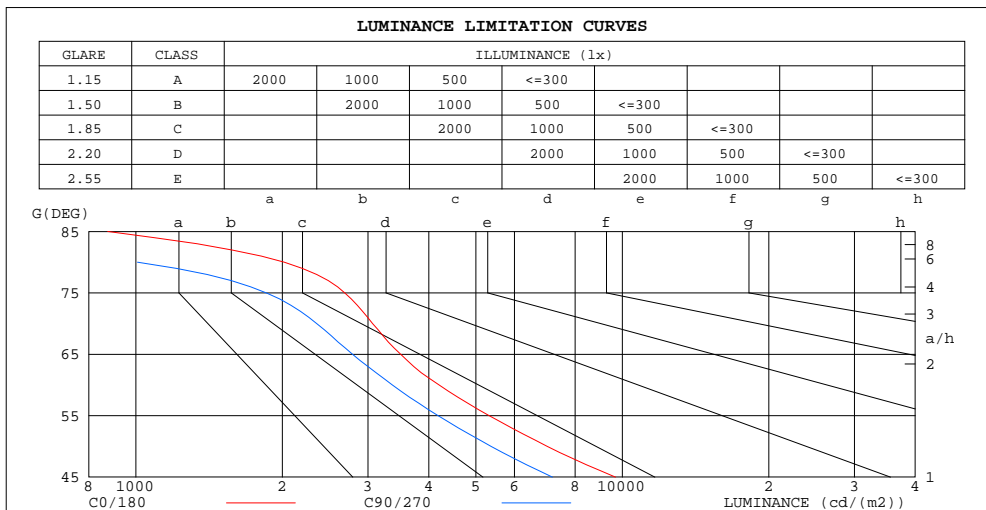
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	671.7	630.9	601.2	625.2	686.9	727.6	757.6	724.4	0- 10	75.04	75.04	19.1,19.1
20	328.0	286.6	271.1	276.1	331.0	358.8	375.7	368.1	10- 20	134.3	209.3	53.2,53.2
30	129.2	106.1	98.38	96.44	124.6	134.3	145.3	146.6	20- 30	94.71	304.0	77.3,77.3
40	47.85	38.58	34.59	35.12	43.32	46.74	52.08	51.24	30- 40	46.71	350.7	89.1,89.1
50	19.87	16.83	15.23	15.47	18.08	19.36	21.19	20.93	40- 50	22.00	372.7	94.7,94.7
60	9.263	8.165	7.425	7.270	8.205	8.995	9.742	9.809	50- 60	11.42	384.1	97.6,97.6
70	4.624	4.064	3.550	3.476	3.959	4.461	4.730	4.870	60- 70	6.094	390.2	99.2,99.2
80	1.546	1.095	0.7717	0.6628	1.017	1.432	1.686	1.819	70- 80	2.854	393.1	99.9,99.9
90	0.0383	0.0256	0.0234	0.0234	0.0149	0.0383	0.0490	0.0788	80- 90	0.4358	393.5	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	875	384
80	2018	1008
75	2689	1854
70	3066	2354
65	3503	2788
60	4201	3367
55	5322	4182
50	7011	5374
45	9680	7180

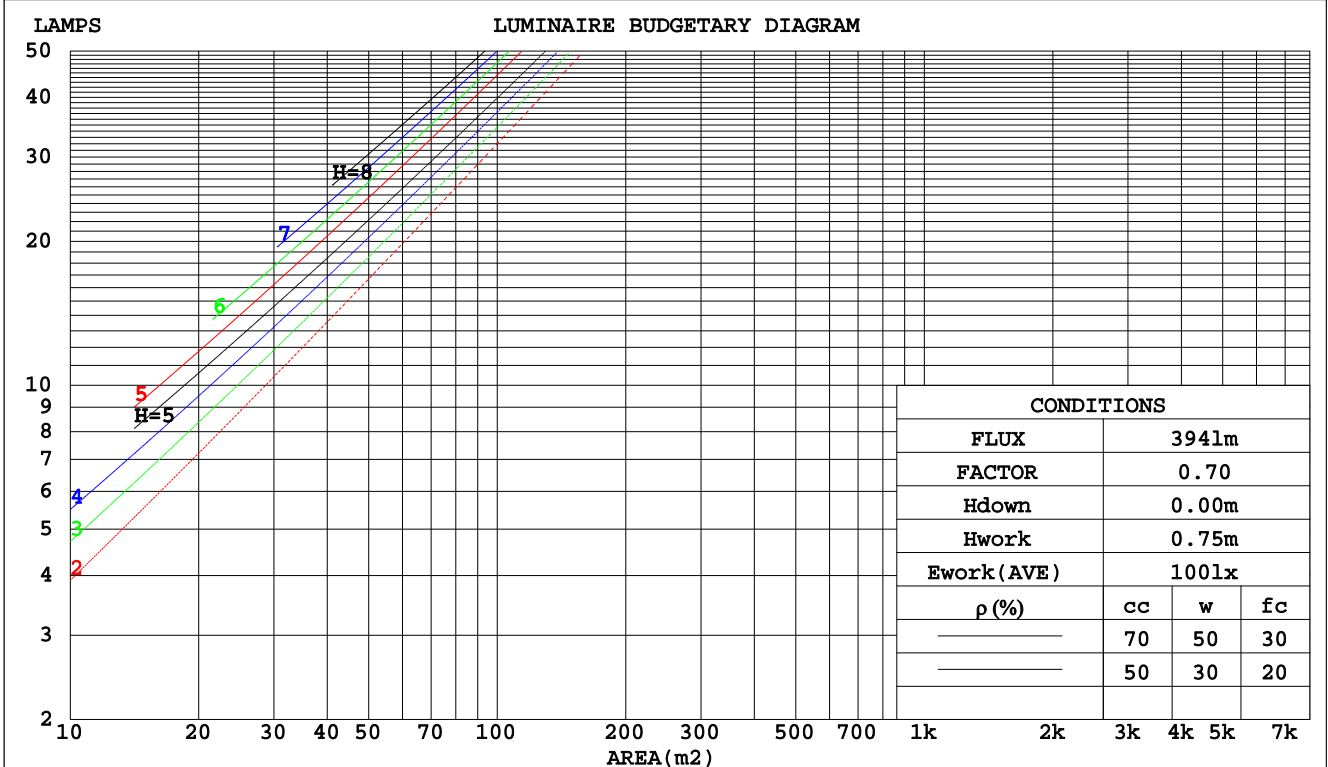
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0329A P:5.724W PF:0.7877 Lamp Flux:393.514x1 lm		
NAME: FS2-4W-830-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*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																
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	1.00
1.0	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.04	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.89	.96	.91	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.81	.77	.85	.80	.77	.84	.79	.76	.82	.78	.75	.81	.77	.75	.73
6.0	.82	.76	.72	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.73	.71	.69
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.66
8.0	.74	.69	.65	.74	.68	.65	.72	.68	.64	.72	.67	.64	.71	.67	.64	.63
9.0	.71	.65	.62	.70	.65	.62	.69	.65	.61	.69	.64	.61	.68	.64	.61	.60
10.0	.68	.62	.59	.67	.62	.59	.67	.62	.59	.66	.62	.59	.65	.61	.58	.57



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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	.174	.099	.031	.167	.096	.030	.155	.089	.028	.143	.083	.027	.133	.077	.025	
2.0	.165	.091	.028	.160	.088	.027	.149	.083	.026	.139	.078	.024	.130	.074	.023	
3.0	.156	.083	.025	.151	.081	.024	.142	.077	.023	.134	.073	.023	.126	.070	.022	
4.0	.147	.076	.022	.143	.075	.022	.135	.072	.021	.128	.069	.021	.122	.066	.020	
5.0	.139	.071	.021	.136	.070	.020	.129	.067	.020	.123	.065	.019	.117	.062	.019	
6.0	.132	.066	.019	.129	.065	.019	.123	.063	.018	.118	.061	.018	.112	.059	.018	
7.0	.125	.062	.018	.123	.061	.017	.117	.059	.017	.113	.058	.017	.108	.056	.017	
8.0	.119	.058	.016	.117	.058	.016	.112	.056	.016	.108	.055	.016	.104	.053	.016	
9.0	.114	.055	.015	.112	.054	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015	
10.0	.109	.052	.014	.107	.052	.014	.103	.051	.014	.100	.050	.014	.097	.049	.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	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.074	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.087	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.054	.028	.079	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
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 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	14.7	15.6	14.9	15.8	15.9	13.5	14.3	13.7	14.5	14.7
3H	15.1	15.9	15.4	16.1	16.3	13.8	14.6	14.1	14.8	15.0
4H	15.3	16.0	15.5	16.3	16.5	13.9	14.7	14.2	14.9	15.2
6H	15.3	16.1	15.6	16.3	16.6	13.9	14.7	14.2	14.9	15.2
8H	15.3	16.0	15.6	16.3	16.5	13.9	14.6	14.2	14.9	15.1
12H	15.3	16.0	15.6	16.2	16.5	13.9	14.5	14.2	14.8	15.1
4H 2H	14.8	15.5	15.0	15.7	16.0	13.6	14.4	13.9	14.6	14.8
3H	15.3	15.9	15.6	16.2	16.5	14.1	14.8	14.4	15.1	15.3
4H	15.5	16.1	15.8	16.4	16.7	14.3	14.9	14.6	15.2	15.5
6H	15.6	16.2	16.0	16.5	16.9	14.3	14.9	14.7	15.2	15.6
8H	15.6	16.1	16.0	16.5	16.9	14.3	14.8	14.7	15.2	15.5
12H	15.6	16.1	16.0	16.4	16.8	14.3	14.7	14.7	15.1	15.5
8H 4H	15.5	16.0	15.9	16.3	16.7	14.3	14.8	14.7	15.2	15.6
6H	15.6	16.1	16.1	16.5	16.9	14.4	14.8	14.8	15.2	15.6
8H	15.7	16.0	16.1	16.5	16.9	14.4	14.7	14.8	15.2	15.6
12H	15.6	16.0	16.1	16.4	16.9	14.3	14.6	14.8	15.1	15.6
12H 4H	15.4	15.9	15.8	16.3	16.7	14.3	14.8	14.7	15.1	15.5
6H	15.6	16.0	16.1	16.4	16.8	14.4	14.7	14.8	15.2	15.6
8H	15.6	15.9	16.1	16.4	16.9	14.3	14.7	14.8	15.1	15.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 1.5					+ 1.1 / - 1.5				
1.5H	+ 2.4 / - 1.3					+ 1.7 / - 1.1				
2.0H	+ 2.3 / - 1.5					+ 1.7 / - 1.3				

CIE Pub.117 Corrected 393.5 lm Total Lamp Luminous Flux. (8log(F/F0) = -3.2)

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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	84	78	74	83	77	74	70
0.80	92	86	82	92	86	82	91	85	82	78
1.00	97	91	87	96	91	87	95	91	87	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	97
5.00	115	112	110	112	110	109	108	107	105	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

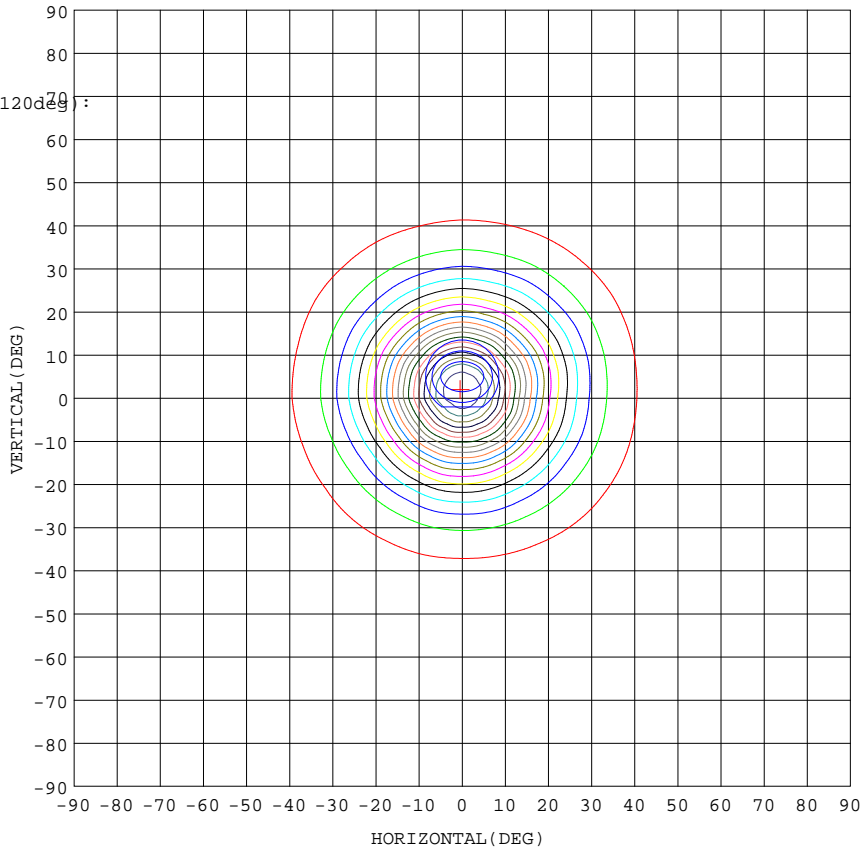
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Conical surface Flux(90deg):

363.6 lm
%lum = 92.4%
%lamp = 92.4%

Conical surface Flux(120deg):

384.13 lm
%lum = 97.6%
%lamp = 97.6%



1. AVG=864.8, MIN=800.8
2. AVG=837.3, MIN=719.1
3. AVG=802.9, MIN=622.6

Imax:914.9(H=0.5,V2.0)
(At:C=255.0,Gamma=2.0)
UNIT: cd

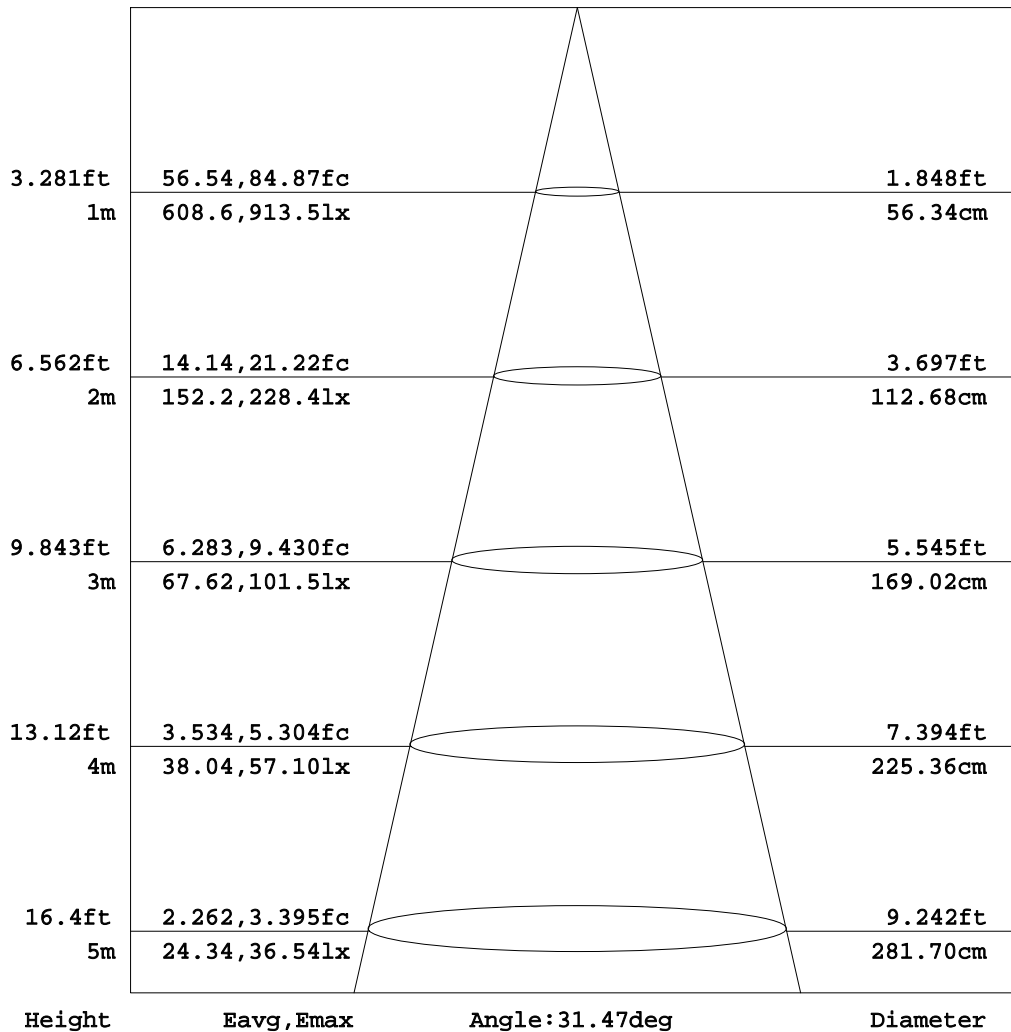
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AAI Figure

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Flux out:157.2 lm



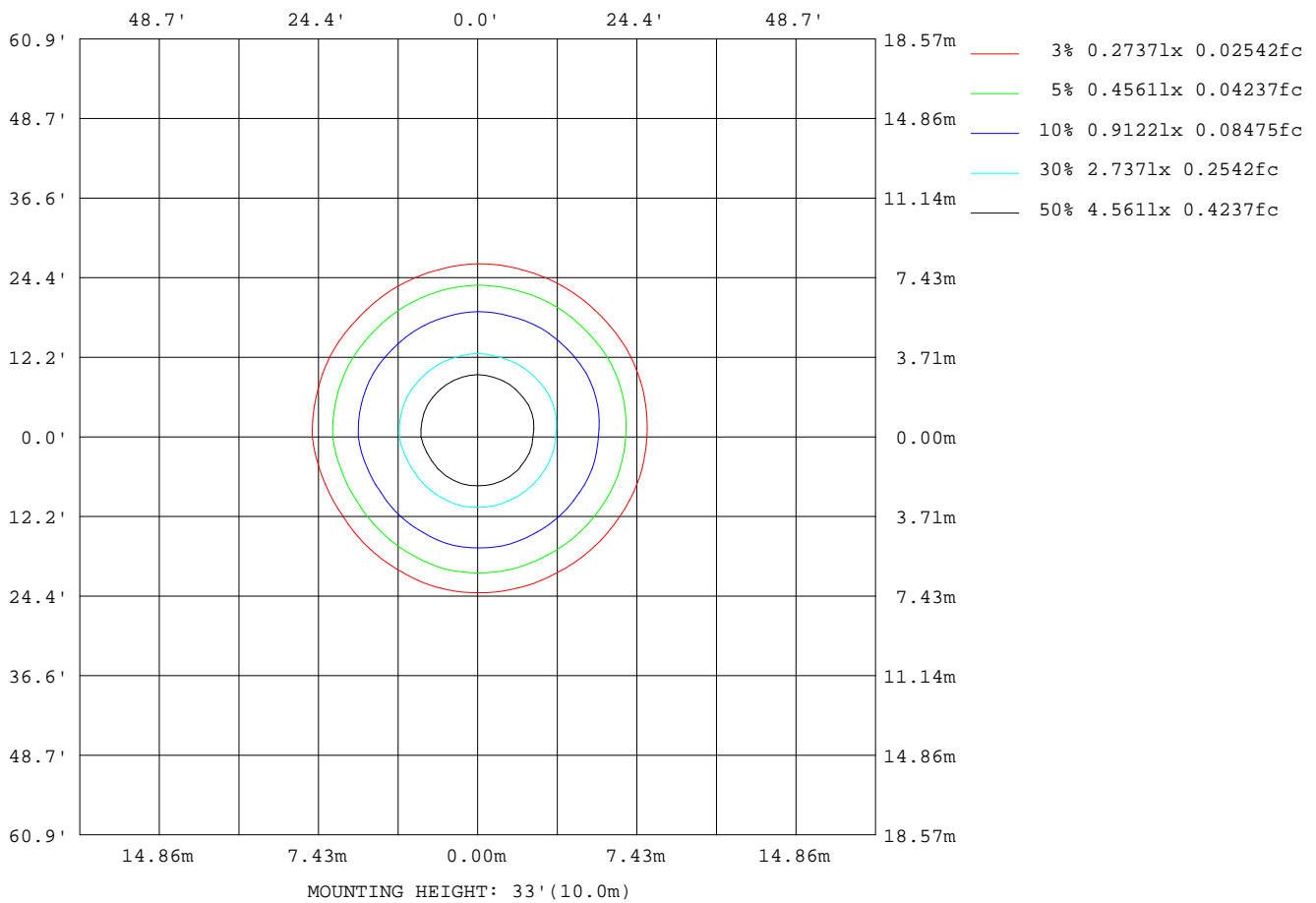
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

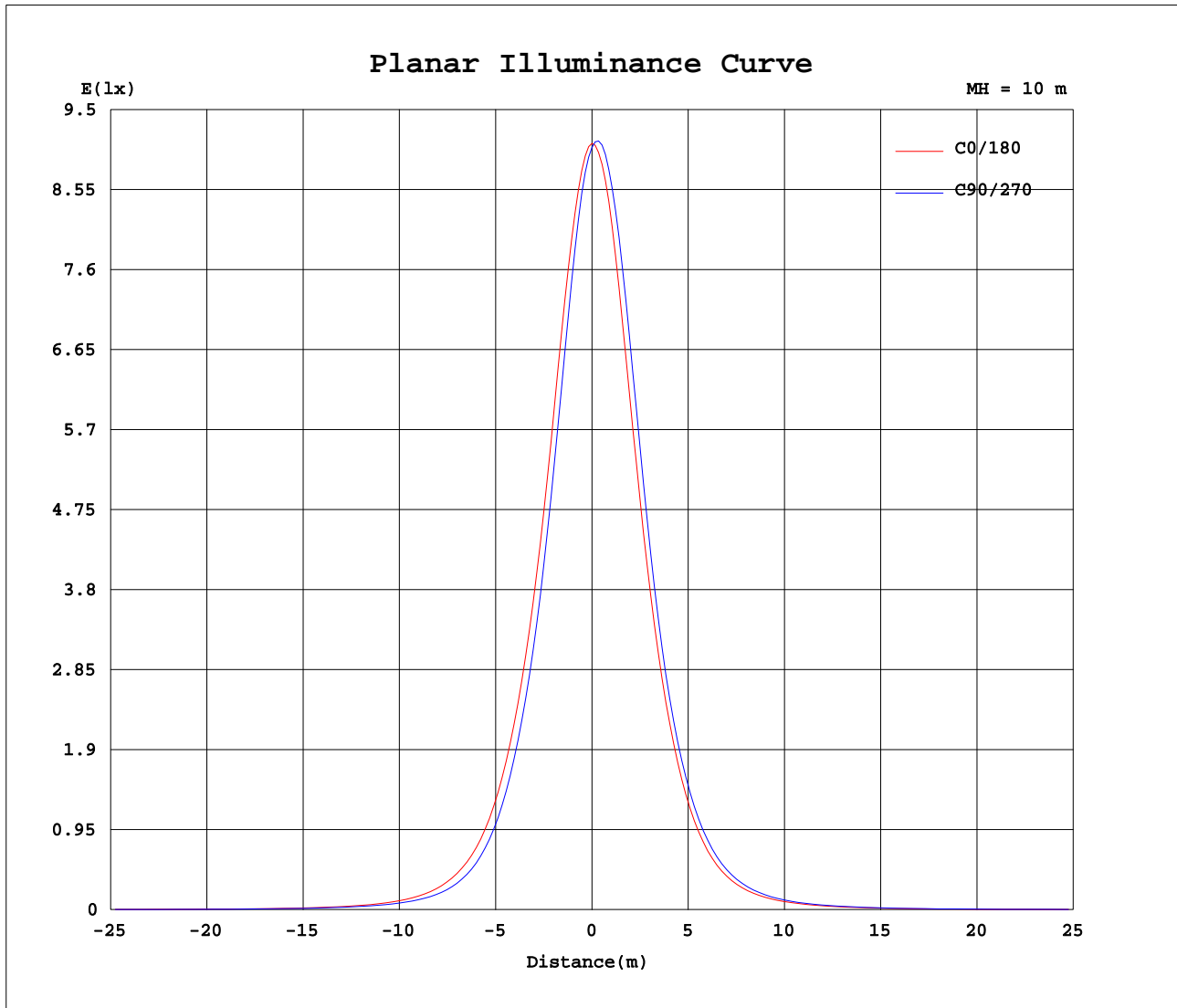
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Planar Illuminance Curve



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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	910.1	909.7	909.1	909.5	907.1	907.8	905.1	905.5	904.5	905.3
3.0	881.1	876.1	866.6	864.2	857.2	857.2	854.0	858.0	856.8	861.5
6.0	809.5	802.0	786.5	778.9	766.0	763.8	758.8	765.4	765.0	776.1
9.0	709.6	702.1	680.6	670.1	652.9	648.6	641.5	649.6	650.4	665.5
12.0	593.5	584.6	565.1	555.1	538.3	531.3	523.3	529.7	532.4	545.8
15.0	483.4	473.9	454.3	443.9	427.4	421.1	414.5	421.0	421.2	433.1
18.0	385.9	373.8	355.7	344.1	330.2	326.7	323.4	327.3	325.7	333.7
21.0	301.6	290.1	272.6	261.7	251.7	250.0	247.3	249.0	245.8	250.5
24.0	231.4	221.6	206.9	196.6	189.1	188.0	184.8	185.6	181.5	184.6
27.0	174.3	166.0	153.4	145.8	139.0	138.0	135.5	136.1	131.8	134.8
30.0	129.2	123.7	113.0	106.1	100.9	99.14	98.38	97.68	95.18	96.44
33.0	95.83	90.30	82.93	77.24	73.16	71.68	70.53	70.53	68.88	69.55
36.0	70.96	66.73	60.78	56.87	53.49	52.38	51.50	51.68	50.47	51.22
39.0	52.70	49.76	45.39	42.45	39.84	38.75	38.11	38.43	37.88	38.51
42.0	39.64	37.59	34.41	32.11	30.18	29.25	28.85	29.25	29.11	29.45
45.0	30.19	28.86	26.49	24.84	23.33	22.68	22.39	22.77	22.70	22.93
48.0	23.35	22.54	20.74	19.56	18.45	17.91	17.69	17.97	17.87	18.07
51.0	18.38	17.82	16.53	15.64	14.72	14.32	14.15	14.32	14.17	14.31
54.0	14.55	14.15	13.20	12.54	11.82	11.54	11.37	11.45	11.27	11.38
57.0	11.57	11.30	10.58	10.10	9.577	9.347	9.178	9.214	9.029	9.076
60.0	9.263	9.054	8.525	8.165	7.764	7.569	7.425	7.415	7.250	7.270
63.0	7.462	7.298	6.931	6.655	6.356	6.174	6.009	5.967	5.827	5.867
66.0	6.095	5.955	5.633	5.431	5.155	5.012	4.838	4.812	4.695	4.741
69.0	4.971	4.835	4.556	4.386	4.151	4.015	3.855	3.832	3.746	3.777
72.0	3.985	3.851	3.606	3.444	3.244	3.110	2.969	2.941	2.873	2.892
75.0	3.069	2.942	2.711	2.558	2.372	2.252	2.117	2.086	2.012	2.032
78.0	2.159	2.030	1.810	1.668	1.511	1.400	1.285	1.248	1.179	1.180
81.0	1.249	1.131	0.9529	0.8352	0.7183	0.6246	0.5477	0.5033	0.4560	0.4480
84.0	0.5033	0.4310	0.3556	0.2823	0.2380	0.1891	0.1882	0.1636	0.1689	0.1466
87.0	0.1647	0.1275	0.1241	0.0892	0.0899	0.0594	0.0623	0.0361	0.0473	0.0277
90.0	0.0383	0.0277	0.0341	0.0256	0.0234	0.0234	0.0234	0.0213	0.0234	0.0234
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	904.7	907.5	910.1	909.7	909.1	909.5	907.1	907.8	905.1	905.3
3.0	862.4	873.0	888.7	893.3	900.7	905.0	908.1	911.1	911.6	909.7
6.0	782.2	798.9	824.5	831.7	846.0	853.6	863.2	867.8	870.9	865.3
9.0	671.7	692.9	724.5	733.5	753.2	763.5	778.8	786.5	797.3	781.6
12.0	553.4	576.8	610.7	620.8	641.2	650.1	667.9	676.5	682.0	672.5
15.0	440.1	461.6	496.6	509.3	527.4	533.8	547.1	555.7	562.2	554.3
18.0	340.4	360.9	393.2	406.5	421.2	424.8	434.3	440.1	445.7	438.2
21.0	256.5	275.2	303.2	314.5	326.6	329.1	336.2	338.5	343.5	337.9
24.0	189.4	206.0	229.8	238.8	248.0	249.0	254.9	257.3	261.8	258.3
27.0	137.5	150.7	170.0	177.1	183.9	184.3	189.0	192.0	196.9	194.7
30.0	99.24	108.5	124.6	128.7	134.4	134.3	138.5	141.4	145.3	144.4
33.0	71.49	78.51	89.62	93.21	96.41	97.25	100.5	103.3	106.2	105.6
36.0	52.26	57.29	65.01	67.72	69.88	70.60	73.23	75.45	77.97	77.42
39.0	39.18	42.53	47.79	49.13	51.41	51.68	53.92	55.43	57.55	57.27
42.0	29.88	32.19	35.76	36.61	38.33	38.53	40.37	41.20	42.87	42.74
45.0	23.25	24.90	27.32	27.84	29.08	29.31	30.60	31.12	32.48	32.47
48.0	18.35	19.49	21.25	21.59	22.42	22.75	23.65	24.01	24.98	25.04
51.0	14.54	15.36	16.70	16.96	17.61	17.87	18.54	18.84	19.56	19.59
54.0	11.51	12.10	13.11	13.35	13.87	14.12	14.67	14.94	15.47	15.48
57.0	9.127	9.527	10.30	10.55	11.03	11.24	11.67	11.87	12.27	12.23
60.0	7.302	7.594	8.205	8.426	8.812	8.995	9.325	9.464	9.742	9.745
63.0	5.883	6.120	6.573	6.785	7.117	7.269	7.532	7.644	7.828	7.828
66.0	4.740	4.946	5.324	5.491	5.777	5.913	6.129	6.188	6.301	6.318
69.0	3.776	3.949	4.276	4.432	4.676	4.802	4.972	5.007	5.094	5.086
72.0	2.888	3.044	3.349	3.488	3.707	3.831	3.978	4.010	4.076	4.070
75.0	2.014	2.171	2.462	2.595	2.798	2.917	3.058	3.098	3.156	3.164
78.0	1.170	1.308	1.586	1.715	1.899	2.011	2.155	2.207	2.272	2.292
81.0	0.4474	0.5374	0.7514	0.8670	1.030	1.142	1.271	1.334	1.396	1.421
84.0	0.1668	0.1636	0.2207	0.2932	0.3542	0.4237	0.4899	0.5519	0.5981	0.6244
87.0	0.0473	0.0404	0.0636	0.1047	0.1040	0.1431	0.1380	0.1773	0.1721	0.1987
90.0	0.0234	0.0234	0.0149	0.0213	0.0213	0.0383	0.0383	0.0511	0.0490	0.0660
G/C	300.0	315.0	330.0	345.0						
0.0	904.5	905.3	904.7	907.5						
3.0	908.4	903.9	899.8	892.7						
6.0	862.4	851.7	845.2	830.5						
9.0	776.8	760.2	752.9	733.4						
12.0	667.6	649.1	642.6	622.5						
15.0	552.6	536.6	532.4	512.9						
18.0	439.7	431.7	429.7	413.8						
21.0	341.9	339.2	339.7	325.8						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2017-01-06

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	262.5	261.7	263.1	251.9
27.0	199.1	198.2	199.9	190.7
30.0	148.0	146.6	148.1	141.9
33.0	107.7	106.9	107.8	104.0
36.0	78.39	77.72	78.58	75.75
39.0	57.39	56.77	57.34	55.72
42.0	42.57	42.03	42.52	41.57
45.0	32.15	31.70	32.21	31.55
48.0	24.78	24.55	24.84	24.39
51.0	19.52	19.35	19.47	19.14
54.0	15.52	15.39	15.45	15.20
57.0	12.36	12.30	12.35	12.12
60.0	9.855	9.809	9.874	9.709
63.0	7.939	7.924	7.984	7.834
66.0	6.429	6.446	6.512	6.393
69.0	5.213	5.229	5.309	5.203
72.0	4.184	4.213	4.287	4.202
75.0	3.267	3.290	3.356	3.277
78.0	2.387	2.408	2.455	2.378
81.0	1.513	1.523	1.552	1.468
84.0	0.6809	0.7012	0.7110	0.6606
87.0	0.1933	0.2139	0.2039	0.2033
90.0	0.0660	0.0788	0.0724	0.0554

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Cao Chengpei
 Test Date: 2017-01-06

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: