

LED Downlight SENSE Series S125R2-18W-930-N



Light Output Ratio:	100.0%	
Luminaire Power:	19.51 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: 2017-07-14

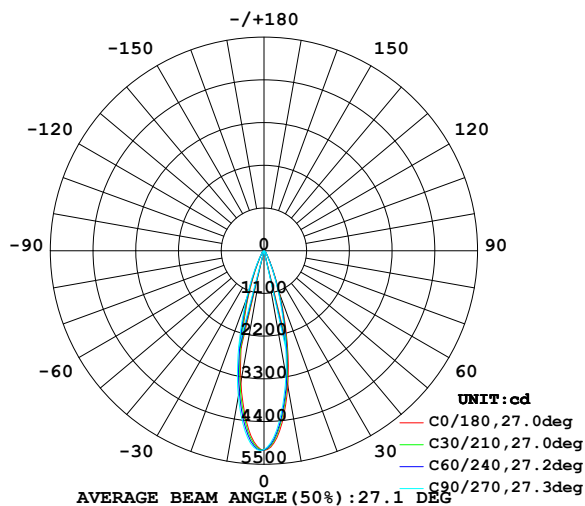
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

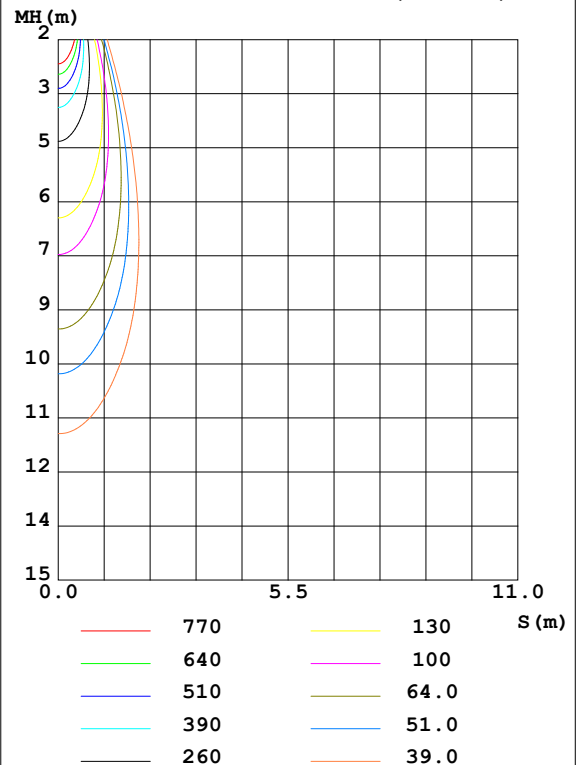
Test:U:220.7V I:0.0938A P:19.51W PF:0.9426 Lamp Flux:1445.81x1 lm		
NAME: S125R2-18W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 135mm*H157mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.11 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	5147	S/MH (C0/180)	0.45
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.49
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1445.8	η UP, DN (C0-180)	0.0, 47.5
NOMINAL FLUX (lm)	1445.81	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.5
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



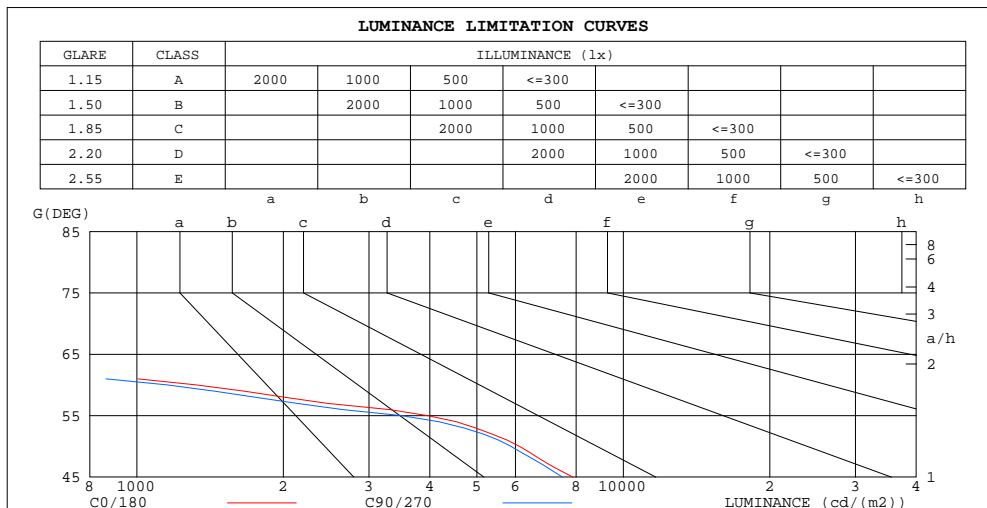
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
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Remarks:

**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	3535	3424	3263	3257	3437	3584	3811	3757	0- 10	405.1	405.1	28,28
20	1160	1103	1011	988.1	1072	1170	1350	1310	10- 20	601.0	1006	69.6,69.6
30	255.0	244.0	228.5	219.8	230.8	246.8	287.8	283.3	20- 30	257.6	1264	87.4,87.4
40	101.0	99.04	95.53	90.68	91.61	91.89	99.98	103.2	30- 40	94.03	1358	93.9,93.9
50	56.31	56.17	54.05	52.24	52.54	52.88	54.71	56.88	40- 50	58.02	1416	97.9,97.9
60	9.487	9.199	8.271	8.724	9.526	10.15	10.75	10.44	50- 60	27.24	1443	99.8,99.8
70	0.5281	0.5260	0.5107	0.5565	0.5170	0.5914	0.5955	0.6154	60- 70	2.527	1446	100,100
80	0.0744	0.0547	0.0656	0.0568	0.0722	0.0634	0.0657	0.0656	70- 80	0.2310	1446	100,100
90	0.0656	0.0547	0.0568	0.0568	0.0415	0.0437	0.0525	0.0481	80- 90	0.0789	1446	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		



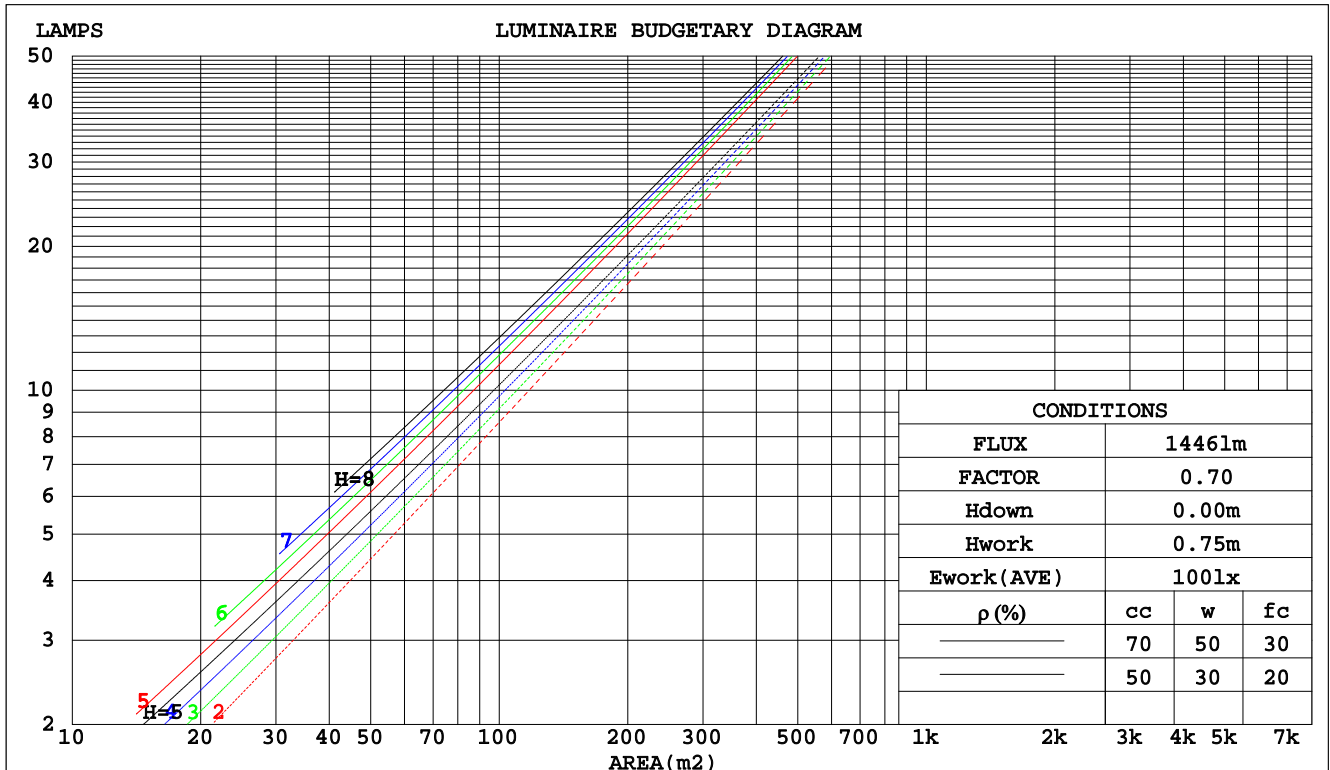
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Humidity:52%
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0938A P:19.51W PF:0.9426 Lamp Flux:1445.81x1 lm		
NAME: S125R2-18W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 135mm*H157mm	
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	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.87	.83	.89	.85	.83	.88	.84	.82	.86	.83	.81	.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	.77	.73	.81	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.72	.71
9.0	.78	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.76	.72	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.68	.67



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WEC AND CCEC

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MFR.: NEKO LIGHTING AG		

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.150	.085	.027	.143	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020		
2.0	.141	.077	.024	.136	.075	.023	.125	.070	.022	.116	.065	.020	.107	.061	.019		
3.0	.133	.071	.021	.128	.069	.021	.120	.065	.020	.111	.061	.019	.104	.058	.018		
4.0	.125	.065	.019	.121	.064	.019	.114	.060	.018	.107	.058	.017	.101	.055	.017		
5.0	.118	.060	.017	.115	.059	.017	.109	.057	.017	.103	.054	.016	.097	.052	.016		
6.0	.112	.056	.016	.109	.055	.016	.104	.053	.016	.099	.051	.015	.094	.049	.015		
7.0	.107	.053	.015	.104	.052	.015	.100	.050	.014	.095	.049	.014	.091	.047	.014		
8.0	.102	.050	.014	.100	.049	.014	.095	.048	.014	.091	.046	.013	.088	.045	.013		
9.0	.097	.047	.013	.095	.046	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012		
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.051	.046	.041	.017	.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	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.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	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.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

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SPEC.:3000K					DIM.: ϕ 135mm*H157mm					
MFR.: NEKO LIGHTING AG										
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	11.9	12.6	12.1	12.8	13.0	11.7	12.4	11.9	12.6	12.7
3H	11.7	12.4	12.0	12.6	12.8	11.5	12.2	11.8	12.4	12.6
4H	11.7	12.3	11.9	12.5	12.7	11.4	12.1	11.7	12.3	12.5
6H	11.6	12.2	11.9	12.4	12.7	11.3	12.0	11.6	12.2	12.4
8H	11.5	12.1	11.8	12.4	12.6	11.3	11.9	11.6	12.1	12.4
12H	11.5	12.1	11.8	12.3	12.6	11.3	11.8	11.6	12.1	12.4
4H 2H	11.7	12.4	12.0	12.6	12.8	11.5	12.2	11.8	12.4	12.6
3H	11.6	12.1	11.9	12.4	12.7	11.3	11.9	11.7	12.2	12.5
4H	11.5	12.0	11.8	12.3	12.6	11.3	11.8	11.6	12.1	12.4
6H	11.4	11.8	11.7	12.2	12.5	11.2	11.6	11.5	11.9	12.3
8H	11.3	11.8	11.7	12.1	12.5	11.1	11.5	11.5	11.9	12.2
12H	11.3	11.7	11.7	12.0	12.4	11.0	11.4	11.5	11.8	12.2
8H 4H	11.3	11.8	11.7	12.1	12.5	11.1	11.5	11.5	11.9	12.2
6H	11.2	11.6	11.6	12.0	12.4	11.0	11.3	11.4	11.7	12.1
8H	11.2	11.5	11.6	11.9	12.3	10.9	11.2	11.4	11.7	12.1
12H	11.1	11.4	11.6	11.8	12.3	10.9	11.1	11.3	11.6	12.0
12H 4H	11.3	11.7	11.7	12.0	12.4	11.0	11.4	11.5	11.8	12.2
6H	11.2	11.5	11.6	11.9	12.3	10.9	11.2	11.4	11.7	12.1
8H	11.1	11.4	11.6	11.8	12.3	10.9	11.1	11.3	11.6	12.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 4.8					+ 2.1 / - 5.5				
1.5H	+ 1.2 / - 2.5					+ 1.0 / - 3.0				
2.0H	+ 3.9 / -17.1					+ 4.0 / -16.5				

CIE Pub.117 Corrected 1446 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.3)

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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:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0938A P:19.51W PF:0.9426 Lamp Flux:1445.81x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	77	86	81	77	74
0.80	95	89	86	94	89	85	93	88	85	81
1.00	100	94	91	99	94	90	97	93	90	86
1.25	104	98	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
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):

1389.6 lm

%lum = 96.1%

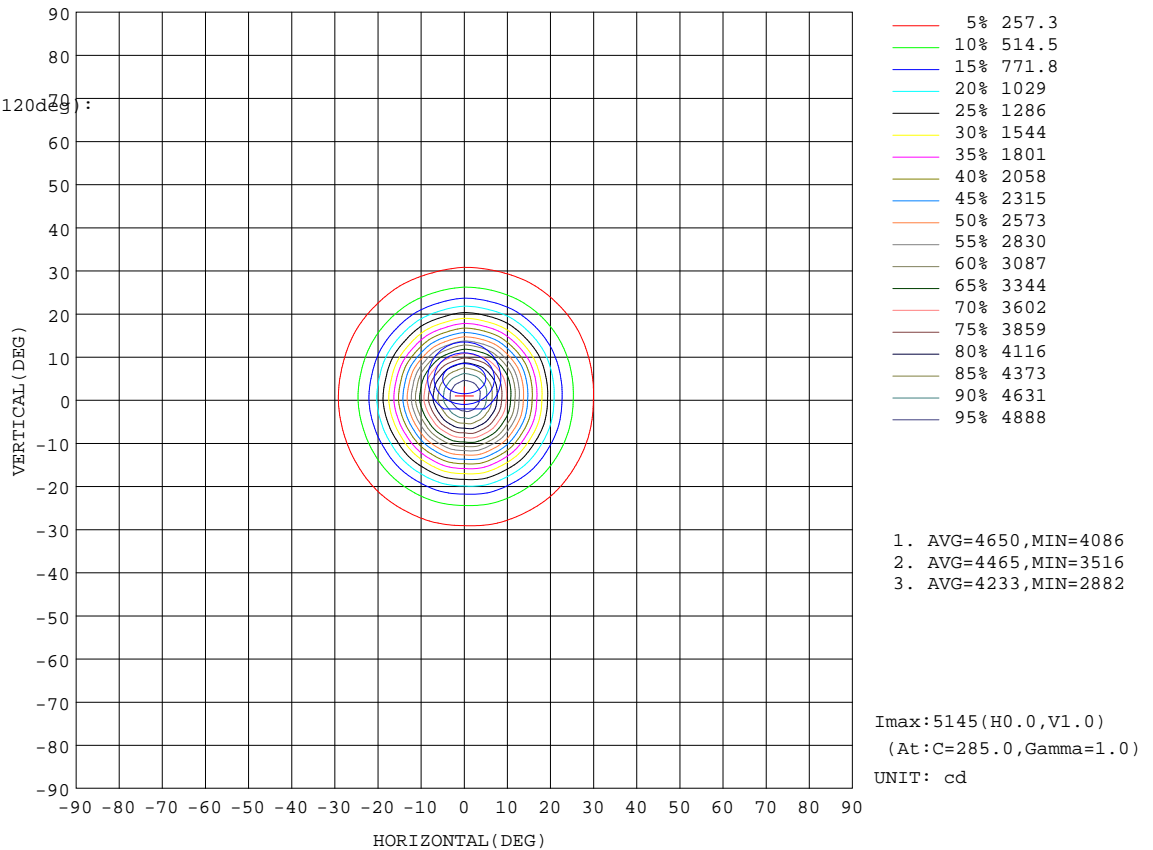
%lamp = 96.1%

Conical surface Flux(120deg):

1443 lm

%lum = 99.8%

%lamp = 99.8%



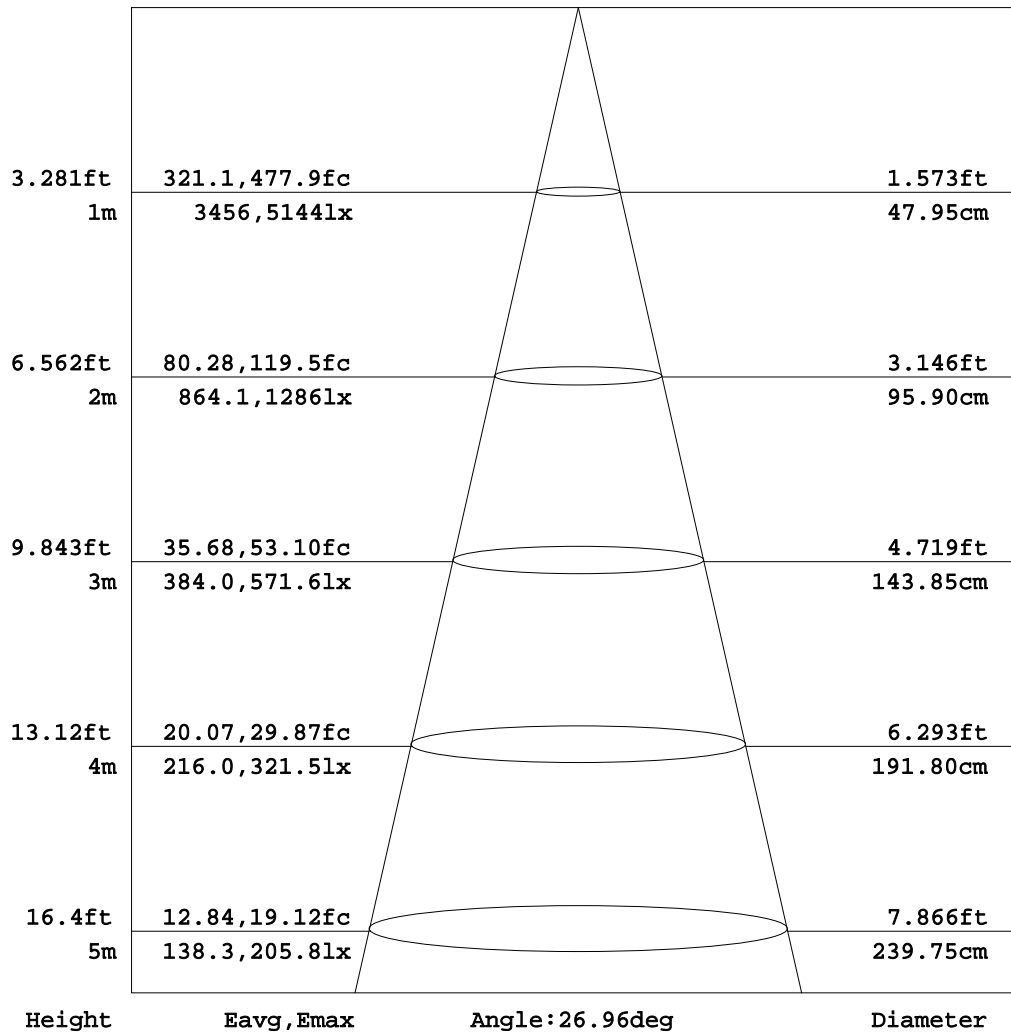
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AAI Figure

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Flux out:675.0 lm



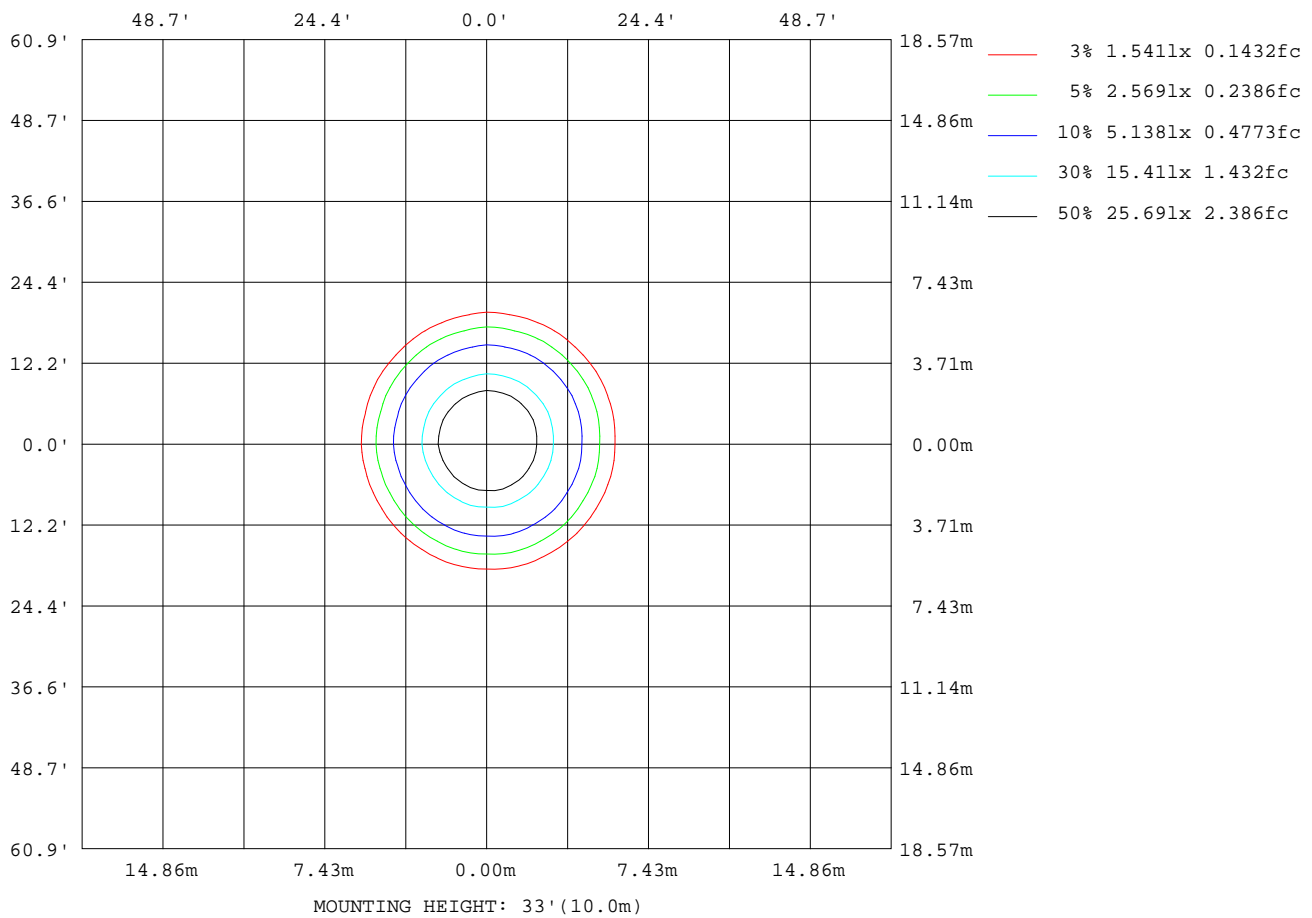
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

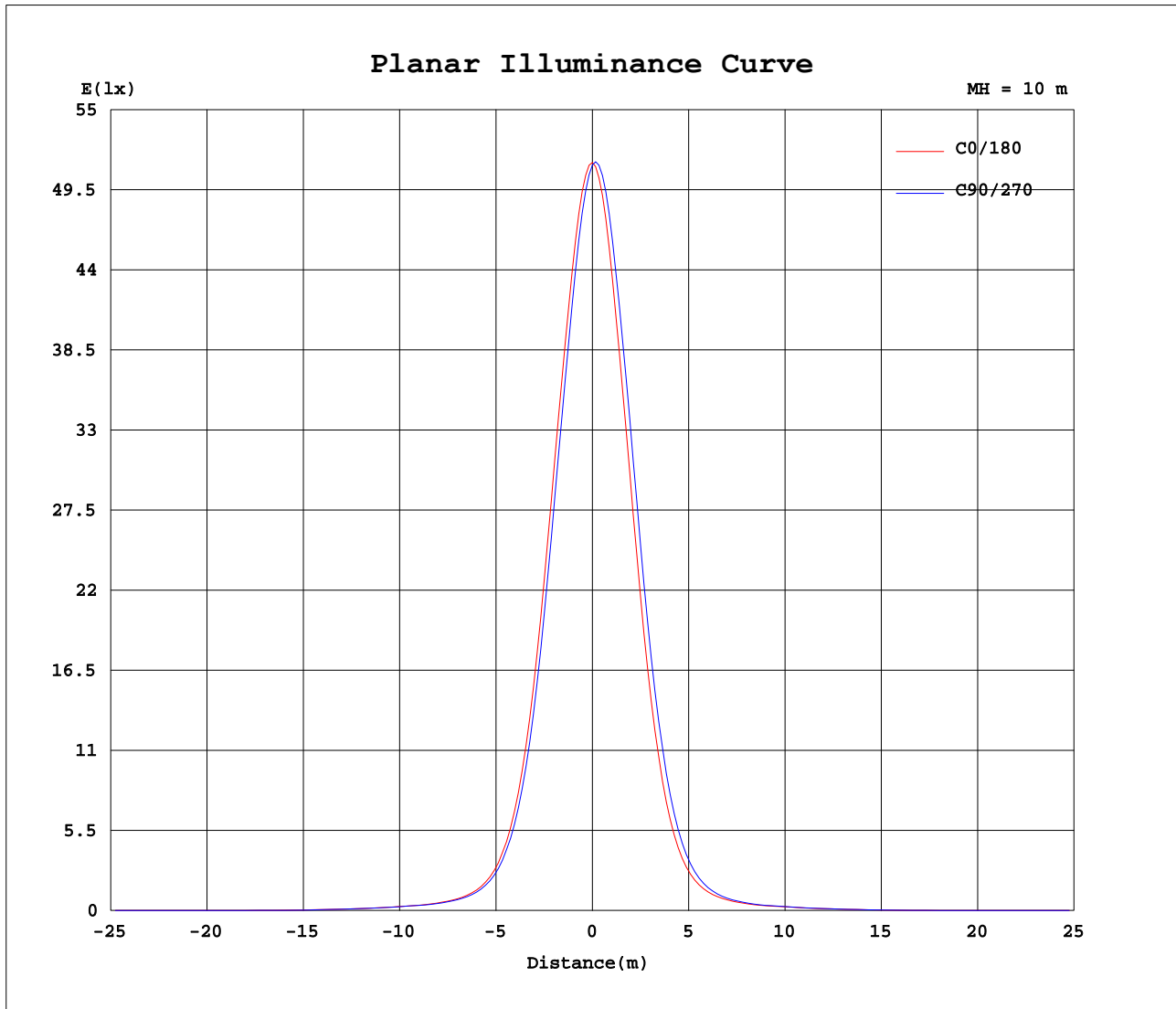
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Planar Illuminance Curve



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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	5138	5136	5135	5135	5131	5134	5120	5126	5120	5121
3.0	4958	4947	4908	4899	4866	4865	4810	4826	4808	4822
6.0	4455	4436	4371	4360	4305	4305	4224	4244	4215	4237
9.0	3778	3757	3683	3673	3609	3609	3511	3535	3494	3516
12.0	3019	2998	2922	2912	2846	2846	2744	2764	2716	2733
15.0	2234	2218	2148	2141	2080	2081	1989	2005	1957	1970
18.0	1540	1529	1474	1469	1421	1422	1349	1370	1322	1337
21.0	997.5	989.9	951.5	948.9	917.4	917.3	868.3	873.8	845.8	847.3
24.0	621.7	616.6	593.3	591.7	572.9	574.5	549.7	546.6	533.7	526.4
27.0	389.0	386.0	371.7	370.6	360.0	361.6	343.4	344.8	332.8	331.3
30.0	255.0	253.4	245.1	244.0	237.9	238.4	228.5	228.6	221.1	219.8
33.0	179.2	178.6	173.7	172.6	168.8	168.8	163.0	162.3	157.1	156.3
36.0	135.3	135.7	132.8	133.2	129.7	130.1	126.1	125.2	121.8	119.9
39.0	108.5	108.5	107.0	105.8	104.5	104.1	101.6	100.0	97.40	96.49
42.0	90.25	90.34	90.03	89.61	89.43	89.60	87.83	86.44	84.99	83.82
45.0	79.72	80.08	79.20	78.84	77.66	77.17	75.86	74.68	72.90	72.70
48.0	64.33	64.73	64.28	64.11	63.38	63.34	62.21	61.27	59.94	59.63
51.0	51.99	52.41	51.75	51.82	50.82	51.01	49.88	49.43	48.20	48.20
54.0	38.17	38.68	37.89	37.93	36.63	36.58	35.15	35.08	34.15	34.68
57.0	19.20	19.21	18.36	18.35	17.11	17.15	16.61	16.85	16.63	17.27
60.0	9.487	9.556	9.156	9.199	8.634	8.640	8.271	8.401	8.305	8.724
63.0	2.176	2.315	1.953	2.001	2.022	2.130	2.142	2.144	2.113	2.122
66.0	1.078	1.090	1.069	1.085	1.096	1.177	1.190	1.221	1.208	1.214
69.0	0.6376	0.6594	0.6440	0.6375	0.6136	0.6418	0.6357	0.6723	0.6707	0.6833
72.0	0.3356	0.3492	0.3464	0.3382	0.3289	0.3274	0.3311	0.3340	0.3443	0.3536
75.0	0.1993	0.1943	0.2016	0.1746	0.1754	0.1658	0.1842	0.1768	0.1864	0.1701
78.0	0.0878	0.0612	0.0747	0.0568	0.0703	0.0568	0.0703	0.0590	0.0681	0.0568
81.0	0.0743	0.0568	0.0634	0.0547	0.0634	0.0547	0.0634	0.0568	0.0591	0.0568
84.0	0.0895	0.0568	0.0591	0.0547	0.0591	0.0547	0.0612	0.0568	0.0590	0.0568
87.0	0.0745	0.0568	0.0569	0.0547	0.0568	0.0547	0.0569	0.0568	0.0568	0.0568
90.0	0.0656	0.0568	0.0547	0.0547	0.0568	0.0568	0.0568	0.0568	0.0568	0.0568

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5116	5119	5136	5135	5135	5135	5131	5134	5120	5126
3.0	4824	4867	4931	4940	4979	4994	5028	5037	5069	5063
6.0	4240	4304	4398	4414	4487	4512	4581	4600	4671	4654
9.0	3511	3584	3689	3709	3799	3832	3922	3947	4044	4022
12.0	2723	2794	2903	2923	3019	3056	3159	3189	3300	3279
15.0	1957	2019	2116	2129	2219	2255	2356	2384	2495	2473
18.0	1314	1371	1440	1449	1525	1554	1640	1664	1757	1739
21.0	836.4	865.3	919.6	928.4	981.4	1006	1070	1091	1160	1144
24.0	525.0	535.3	568.0	573.1	607.6	624.1	668.1	683.7	731.4	721.3
27.0	325.9	335.3	352.9	356.1	375.1	385.3	411.8	423.2	453.1	448.5
30.0	216.7	221.7	230.8	232.0	242.0	246.8	262.4	269.3	287.8	285.3
33.0	154.7	157.5	162.2	162.5	167.2	169.4	177.9	182.4	193.3	192.4
36.0	119.3	120.1	121.9	122.2	125.7	125.8	131.2	133.1	139.8	139.8
39.0	96.31	97.18	98.26	97.99	98.84	99.04	101.4	104.0	108.3	108.5
42.0	83.26	82.45	81.88	81.55	81.86	82.15	83.55	85.48	87.96	88.39
45.0	72.70	73.64	75.21	74.63	74.99	74.74	75.28	75.21	77.61	77.71
48.0	59.62	59.71	60.17	60.28	60.38	60.34	60.86	61.33	62.48	62.51
51.0	47.85	48.72	49.33	48.87	49.56	49.33	49.93	49.45	50.75	50.95
54.0	34.36	34.96	35.40	35.06	35.99	35.56	35.93	35.73	36.50	36.45
57.0	17.33	18.28	19.33	19.19	19.94	19.65	20.32	20.04	20.56	20.13
60.0	8.631	9.173	9.526	9.564	10.20	10.15	10.66	10.40	10.75	10.38
63.0	2.053	2.043	1.991	1.987	2.228	2.185	2.638	2.464	2.918	2.685
66.0	1.159	1.159	1.105	1.154	1.222	1.255	1.332	1.323	1.318	1.275
69.0	0.6443	0.6440	0.6414	0.6702	0.7243	0.7337	0.7723	0.7492	0.7547	0.7316
72.0	0.3312	0.3252	0.3250	0.3507	0.3753	0.3813	0.3927	0.3683	0.3684	0.3639
75.0	0.1733	0.1637	0.1658	0.1950	0.2008	0.2169	0.2094	0.2016	0.1745	0.1818
78.0	0.0723	0.0568	0.0678	0.0746	0.0678	0.0812	0.0677	0.0833	0.0612	0.0811
81.0	0.0634	0.0568	0.0722	0.0700	0.0722	0.0656	0.0678	0.0612	0.0745	0.0634
84.0	0.0612	0.0568	0.0631	0.0851	0.0740	0.0937	0.0913	0.0699	0.1179	0.1507
87.0	0.0568	0.0568	0.0415	0.0481	0.0415	0.0503	0.0437	0.0613	0.0763	0.1422
90.0	0.0568	0.0568	0.0415	0.0459	0.0437	0.0437	0.0437	0.0525	0.0525	0.0700

G/C	300.0	315.0	330.0	345.0
0.0	5120	5121	5116	5119
3.0	5066	5045	5030	4988
6.0	4667	4624	4600	4520
9.0	4044	3991	3960	3862
12.0	3309	3253	3220	3115
15.0	2505	2454	2428	2323
18.0	1767	1721	1701	1616
21.0	1166	1132	1117	1053

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-14

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	735.8	712.1	700.8	659.3
27.0	456.3	442.8	435.3	411.1
30.0	290.7	283.3	279.9	267.3
33.0	196.4	193.2	192.4	186.3
36.0	142.6	141.7	142.4	139.5
39.0	110.7	111.1	112.2	111.4
42.0	89.78	90.75	91.68	91.77
45.0	80.03	81.24	82.42	81.76
48.0	63.75	64.70	65.64	65.72
51.0	52.71	52.90	53.78	53.31
54.0	37.76	38.67	39.61	39.36
57.0	20.65	20.27	21.02	20.34
60.0	10.69	10.44	10.69	10.24
63.0	3.123	3.083	3.335	2.994
66.0	1.305	1.314	1.288	1.224
69.0	0.7505	0.7468	0.7113	0.7008
72.0	0.3992	0.4033	0.3970	0.3530
75.0	0.2027	0.2124	0.1724	0.1906
78.0	0.0612	0.0944	0.1203	0.1050
81.0	0.0678	0.0656	0.1749	0.1376
84.0	0.1814	0.0699	0.2052	0.1812
87.0	0.1573	0.0591	0.1659	0.1488
90.0	0.0678	0.0481	0.0743	0.0722

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-14

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: