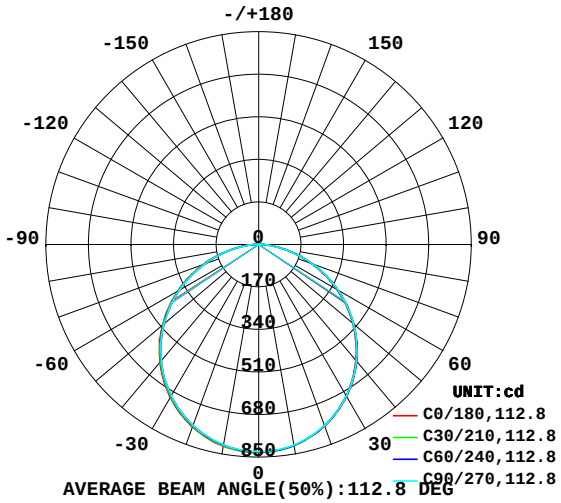
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

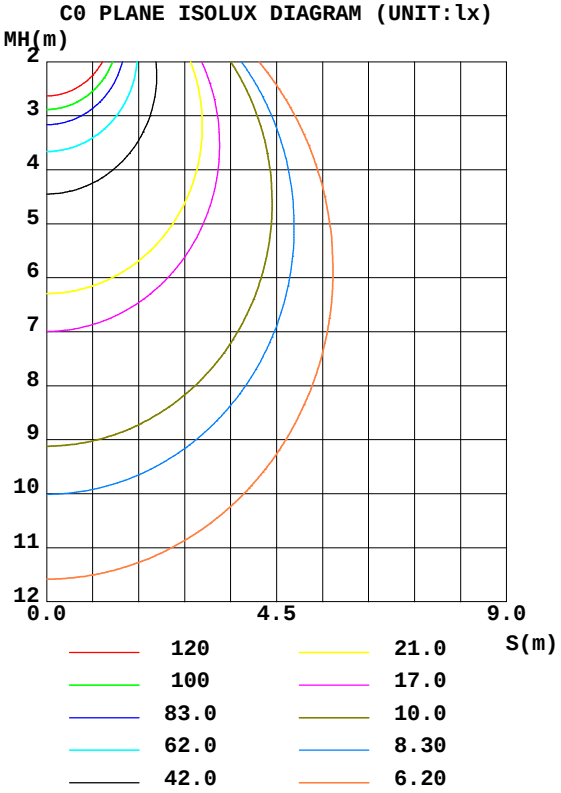
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 111.14 lm/W	
MODEL		Imax(cd)	831.6	S/MH(C0/180)	1.26
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2400.7	η UP,DN(C0-180)	0.2,49.5
NOMINAL FLUX(lm)	2400.65	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.7
LAMPS INSIDE	1	η up(%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	99.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):112.8 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

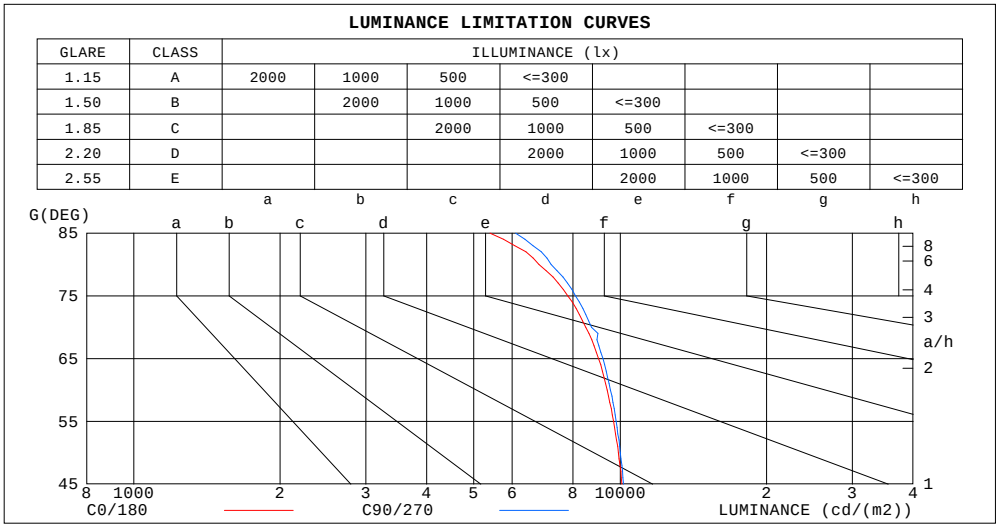
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	815.6	815.4	814.0	813.3	818.2	814.8	812.8	811.9	0- 10	78.44	78.44	3.27,3.27
20	770.3	771.7	770.5	769.5	775.4	770.9	768.9	768.1	10- 20	224.6	303.0	12.6,12.6
30	698.4	701.8	700.6	699.9	706.0	700.6	698.8	698.2	20- 30	340.4	643.4	26.8,26.8
40	604.3	609.0	607.8	607.4	614.1	607.7	606.3	605.5	30- 40	410.8	1054	43.9,43.9
50	490.7	494.9	495.5	494.2	502.3	495.5	494.0	493.5	40- 50	426.9	1481	61.7,61.7
60	362.2	367.4	367.7	366.5	374.1	367.3	365.3	366.1	50- 60	386.4	1867	77.8,77.8
70	223.7	230.3	229.8	229.9	237.2	230.9	230.0	229.9	60- 70	296.1	2164	90.1,90.1
80	91.07	97.46	96.50	97.50	104.2	98.55	97.55	98.03	70- 80	171.6	2335	97.3,97.3
90	2.877	3.865	4.302	4.371	7.229	6.183	6.296	6.083	80- 90	48.49	2384	99.3,99.3
100	1.460	1.462	1.461	1.760	3.747	3.798	3.735	3.556	90-100	3.126	2387	99.4,99.4
110	1.515	1.511	1.509	1.795	3.678	3.721	3.659	3.490	100-110	2.772	2390	99.5,99.5
120	1.631	1.622	1.622	1.899	3.696	3.732	3.677	3.508	110-120	2.620	2392	99.6,99.6
130	1.752	1.748	1.744	2.000	3.672	3.700	3.638	3.489	120-130	2.428	2395	99.7,99.7
140	1.832	1.823	1.831	2.054	3.556	3.575	3.520	3.385	130-140	2.104	2397	99.8,99.8
150	1.945	1.934	1.937	2.126	3.372	3.380	3.334	3.221	140-150	1.683	2398	99.9,99.9
160	2.165	2.164	2.163	2.304	3.162	3.169	3.136	3.055	150-160	1.231	2400	100,100
170	2.432	2.431	2.435	2.506	2.944	2.945	2.925	2.891	160-170	0.7591	2400	100,100
180	2.656	2.647	2.631	2.650	2.659	2.644	2.630	2.643	170-180	0.2561	2401	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

LUMINANCE LIMITATION CURVES

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5398	6099
80	6811	7217
75	7802	8093
70	8494	8726
65	9026	9220
60	9407	9550
55	9693	9814
50	9915	10010
45	10077	10159

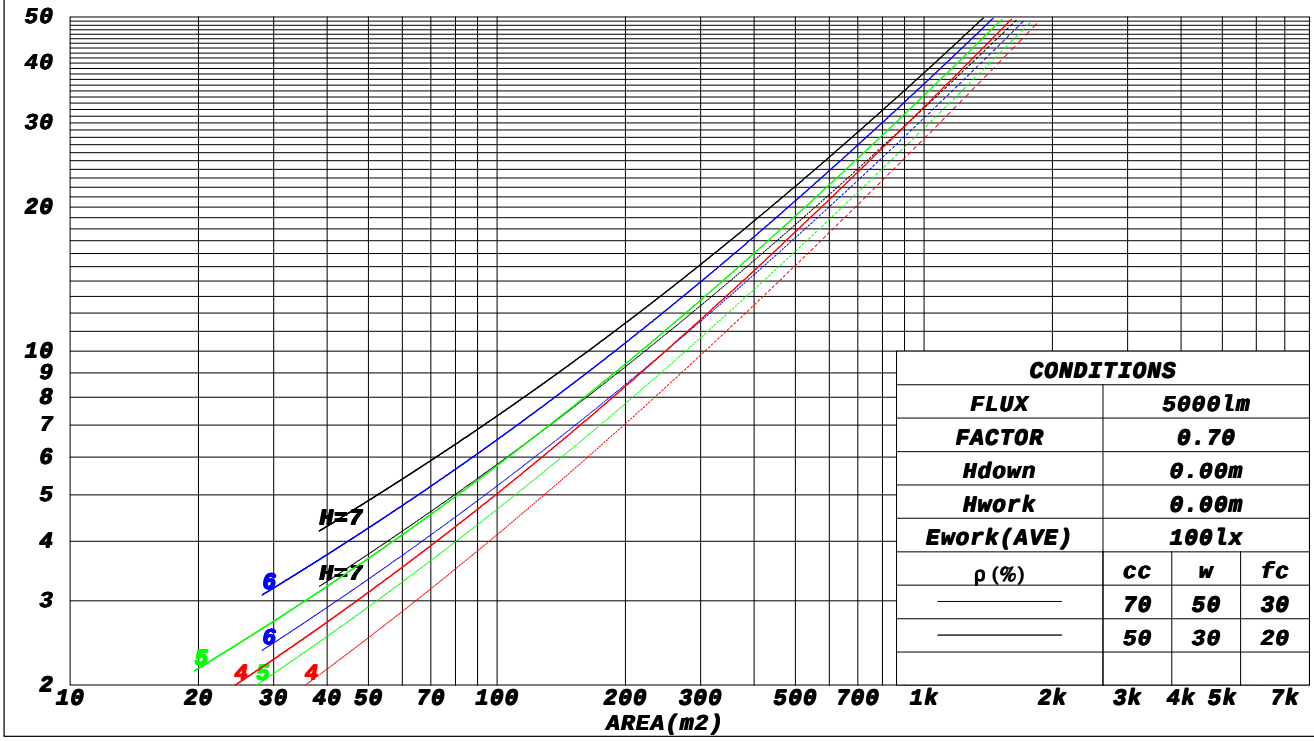
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
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Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

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			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	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

WEC AND CCEC

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

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 Coeffcients(WEC)												
0.0																
1.0	.312	.178	.056	.305	.174	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.047	.264	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.095	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.021	

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	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.162	.140	.159	.139	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.152	.118	.089	.104	.082	.062	.060	.048	.037	.019	.015	.012	
3.0	.170	.120	.080	.146	.103	.069	.100	.072	.048	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.092	.055	.096	.064	.039	.055	.038	.023	.018	.012	.008	
5.0	.155	.096	.053	.133	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.045	.127	.076	.039	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.081	.039	.121	.070	.034	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.116	.065	.030	.080	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.070	.031	.111	.061	.027	.077	.043	.019	.045	.025	.011	.014	.008	.004	
10.0	.123	.066	.028	.106	.057	.024	.073	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

UGR(Unified Glare Rating) Table

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

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	20.0	21.6	20.4	22.0	22.3	20.0	21.7	20.4	22.0	22.3
3H	21.8	23.3	22.2	23.6	24.0	21.9	23.4	22.3	23.7	24.1
4H	22.5	23.9	22.9	24.2	24.6	22.6	24.0	23.0	24.3	24.7
6H	23.0	24.2	23.4	24.6	25.0	23.1	24.4	23.5	24.7	25.1
8H	23.1	24.3	23.5	24.7	25.1	23.2	24.5	23.7	24.9	25.3
12H	23.2	24.4	23.6	24.8	25.2	23.3	24.5	23.8	24.9	25.3
4H 2H	20.7	22.1	21.1	22.4	22.8	20.7	22.1	21.1	22.4	22.8
3H	22.7	23.9	23.1	24.3	24.7	22.7	23.9	23.2	24.3	24.7
4H	23.5	24.5	23.9	25.0	25.4	23.5	24.6	24.0	25.0	25.5
6H	24.1	25.0	24.6	25.5	25.9	24.2	25.1	24.6	25.5	26.0
8H	24.3	25.1	24.8	25.6	26.1	24.4	25.2	24.8	25.7	26.2
12H	24.4	25.2	24.9	25.7	26.2	24.5	25.3	25.0	25.8	26.3
8H 4H	23.8	24.7	24.3	25.1	25.6	23.9	24.7	24.3	25.2	25.7
6H	24.5	25.3	25.1	25.8	26.3	24.6	25.3	25.1	25.8	26.3
8H	24.8	25.5	25.3	26.0	26.5	24.9	25.5	25.4	26.0	26.5
12H	25.0	25.6	25.5	26.1	26.7	25.1	25.7	25.6	26.2	26.7
12H 4H	23.9	24.6	24.3	25.1	25.6	23.9	24.7	24.4	25.2	25.7
6H	24.6	25.3	25.1	25.7	26.3	24.7	25.3	25.2	25.8	26.4
8H	24.9	25.5	25.4	26.0	26.6	25.0	25.6	25.5	26.1	26.6
CIE190: 2010										

CIE190: 2010
Area: 0.077 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

UTILIZATION FACTORS TABLE

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

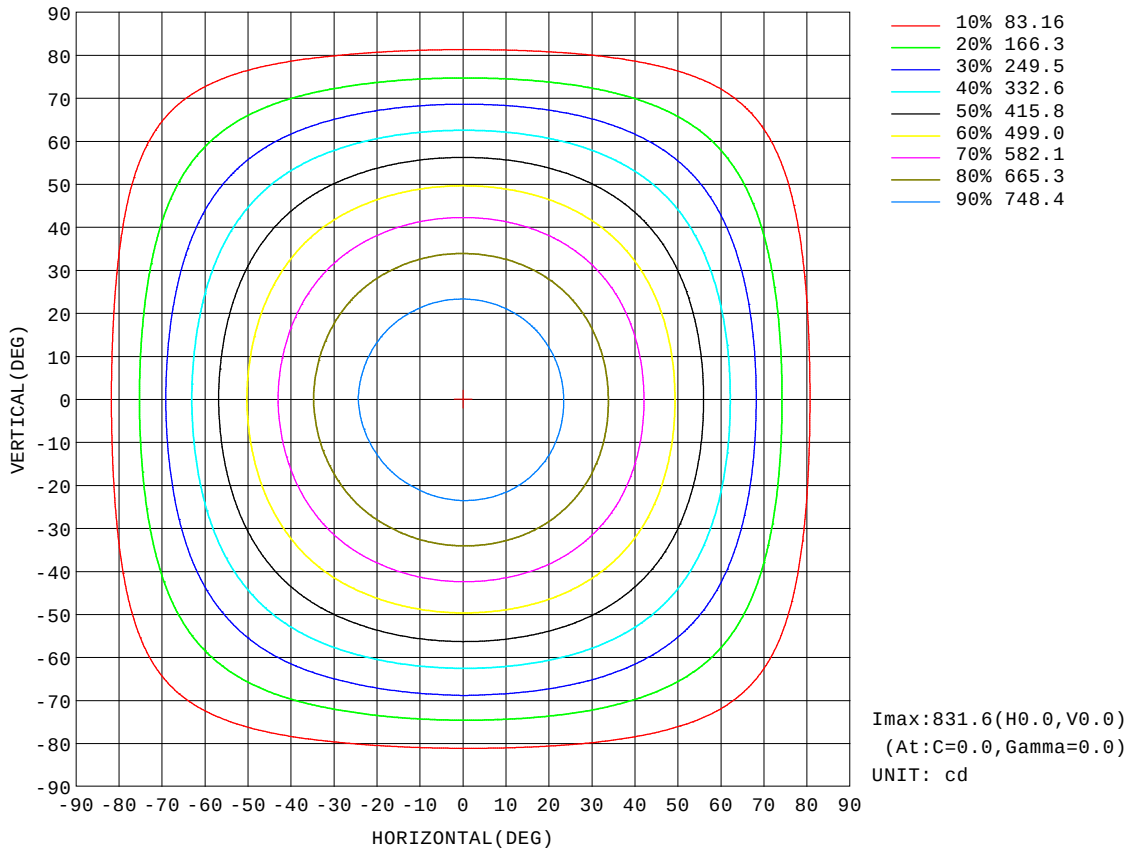
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	84	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

ISOCANDELA DIAGRAM

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

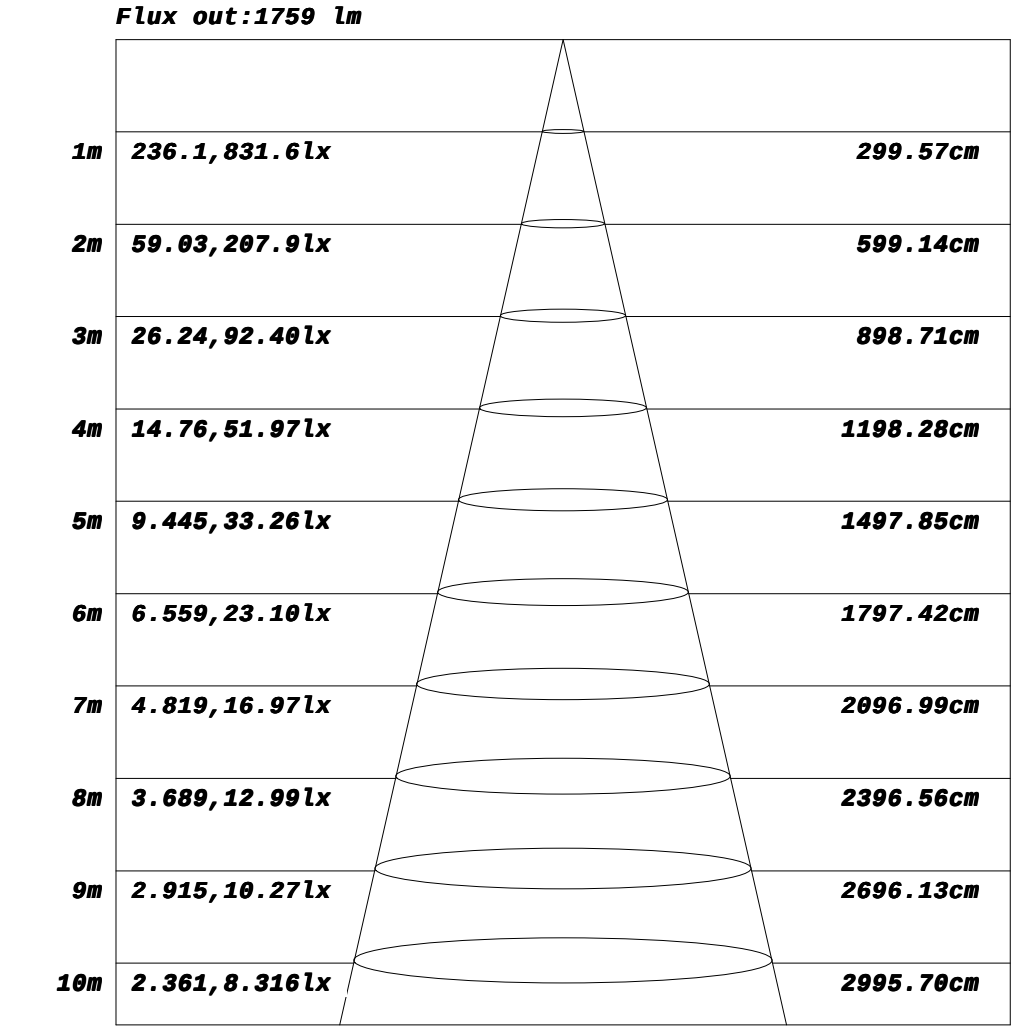


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γ Range: 0 - 180DEG
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Remarks: 电源:***AGT-I781g-0550(550mA),***
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效灯珠,***0.2W 4000K***

AAI Figure

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	



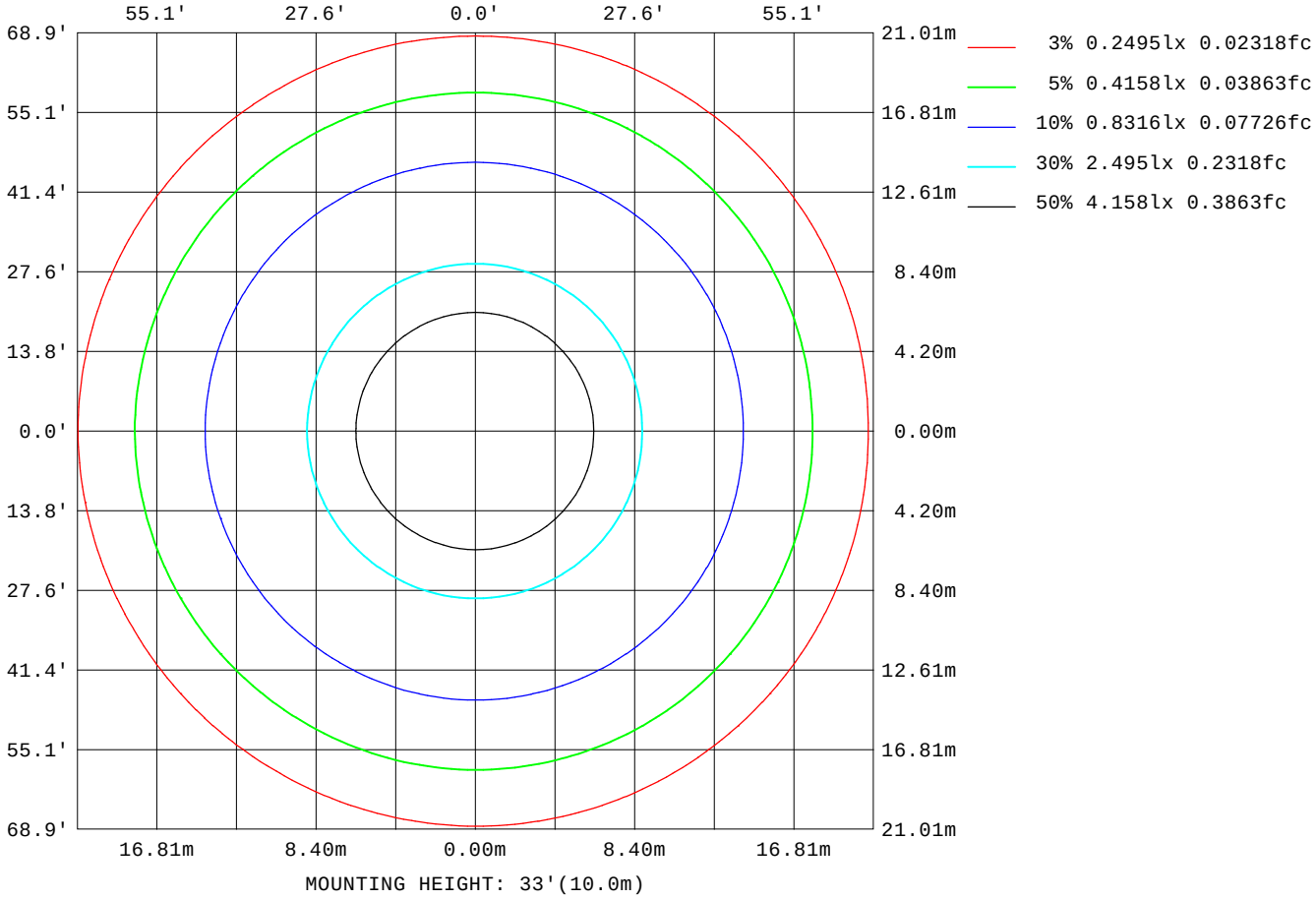
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

ISOLUX DIAGRAM

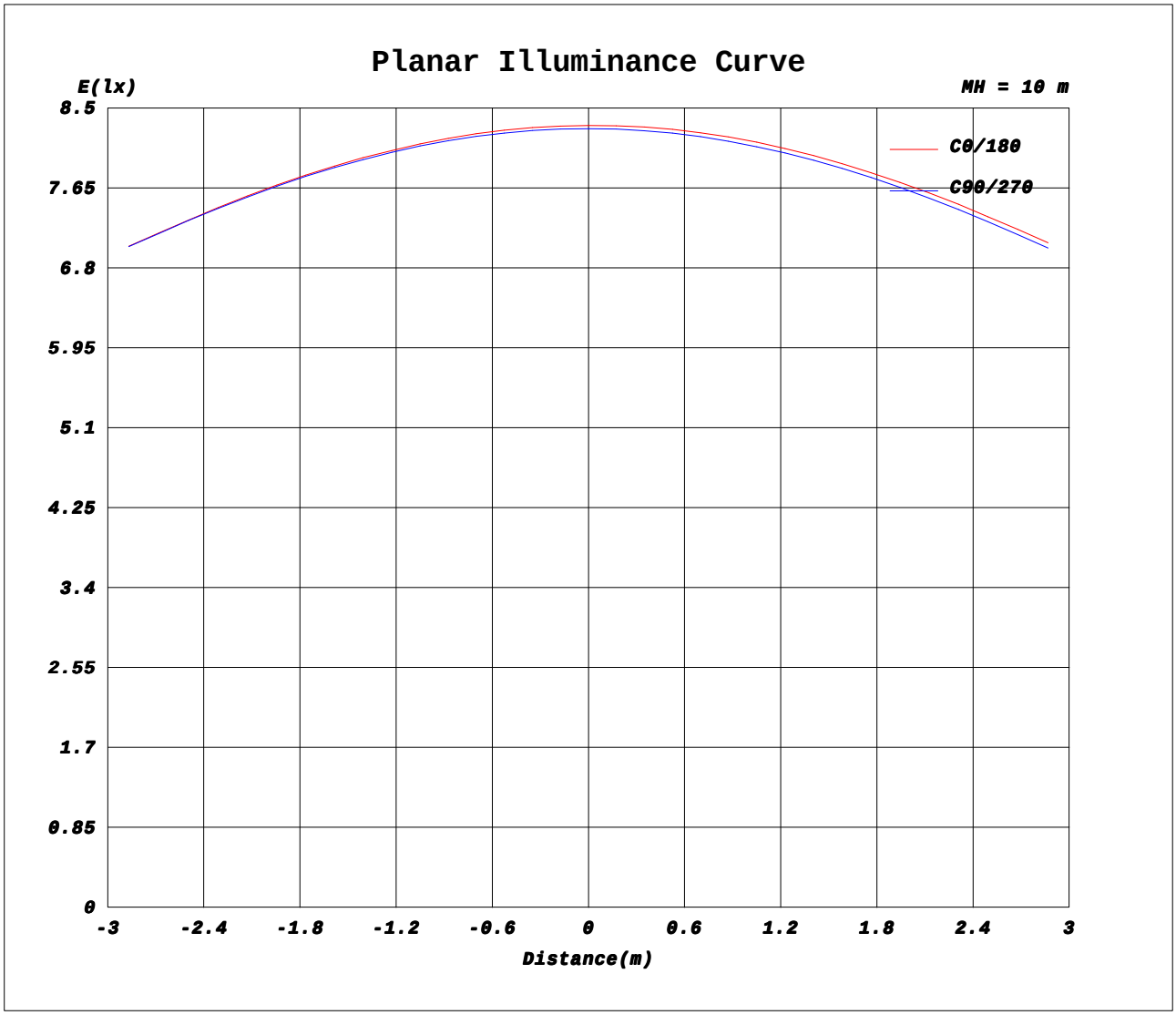
Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:***AGT-I781g-0550(550mA),***
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,***0.2W 4000K***

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-2X12S24P-V7.0,
LED:Lumileds（亮锐）普通光效
灯珠,0.2W 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.80V I:0.1010A P:21.600W PF:0.9660 Freq:50.00Hz Lamp Flux:2400.65x1 lm		
Name: A320 22W 000 4000K	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	832	831	829	828	827	828	832	831	829	828	827	828
5	827	827	826	825	823	825	829	827	825	824	823	824
10	816	816	815	814	812	814	818	816	814	813	812	812
15	796	797	797	795	794	796	800	797	795	794	793	793
20	770	772	772	771	768	771	775	772	770	769	768	768
25	738	740	740	739	737	739	744	741	737	737	736	736
30	698	702	702	701	699	701	706	702	699	699	698	698
35	654	658	659	657	655	658	663	659	655	655	655	654
40	604	609	609	608	606	609	614	609	606	606	606	605
45	549	555	555	553	552	556	561	556	552	554	553	551
50	491	494	496	495	493	496	502	497	494	494	494	493
55	428	432	434	433	431	433	439	435	431	431	432	431
60	362	367	368	368	365	368	374	369	365	365	366	366
65	294	299	300	300	298	300	306	302	299	299	300	299
70	224	229	231	230	228	232	237	232	229	230	231	229
75	155	161	163	161	160	164	170	165	161	162	163	161
80	91.1	96.8	98.1	96.5	95.8	99.2	104	100	97.0	97.6	98.9	97.2
85	36.2	40.1	41.5	40.9	39.6	42.3	47.2	43.4	41.1	42.2	42.8	41.1
90	2.88	3.62	4.11	4.30	3.79	4.96	7.23	6.45	5.92	6.30	6.57	5.59
95	1.46	1.46	1.46	1.47	1.32	2.22	3.82	3.92	3.78	3.78	3.93	3.27
100	1.46	1.46	1.46	1.46	1.32	2.20	3.75	3.86	3.74	3.73	3.88	3.23
105	1.48	1.48	1.48	1.48	1.34	2.20	3.71	3.82	3.70	3.69	3.83	3.21
110	1.51	1.51	1.51	1.51	1.38	2.21	3.68	3.78	3.66	3.66	3.79	3.19
115	1.57	1.56	1.55	1.55	1.43	2.24	3.67	3.77	3.66	3.65	3.78	3.19
120	1.63	1.62	1.62	1.62	1.50	2.30	3.70	3.79	3.68	3.68	3.80	3.22
125	1.70	1.69	1.69	1.68	1.57	2.34	3.69	3.78	3.68	3.67	3.79	3.23
130	1.75	1.75	1.75	1.74	1.63	2.37	3.67	3.75	3.65	3.64	3.76	3.22
135	1.79	1.79	1.79	1.78	1.67	2.38	3.62	3.70	3.60	3.59	3.70	3.19
140	1.83	1.82	1.82	1.83	1.72	2.38	3.56	3.62	3.53	3.52	3.62	3.15
145	1.87	1.86	1.86	1.87	1.77	2.38	3.47	3.53	3.44	3.43	3.53	3.09
150	1.94	1.94	1.93	1.94	1.85	2.40	3.37	3.42	3.34	3.33	3.42	3.02
155	2.05	2.04	2.03	2.04	1.97	2.44	3.27	3.31	3.24	3.24	3.31	2.97
160	2.17	2.16	2.16	2.16	2.11	2.50	3.16	3.20	3.14	3.14	3.19	2.92
165	2.30	2.30	2.30	2.30	2.26	2.55	3.06	3.08	3.04	3.03	3.08	2.87
170	2.43	2.43	2.43	2.43	2.41	2.60	2.94	2.96	2.93	2.92	2.96	2.82
175	2.55	2.55	2.55	2.54	2.54	2.64	2.81	2.81	2.79	2.78	2.80	2.74
180	2.66	2.65	2.64	2.63	2.64	2.66	2.66	2.65	2.64	2.63	2.64	2.65

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