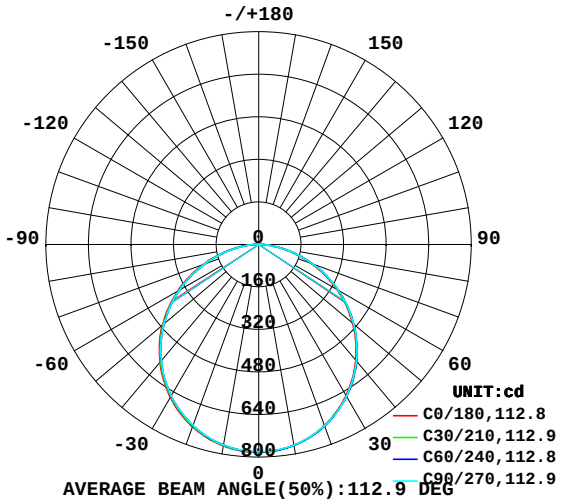
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

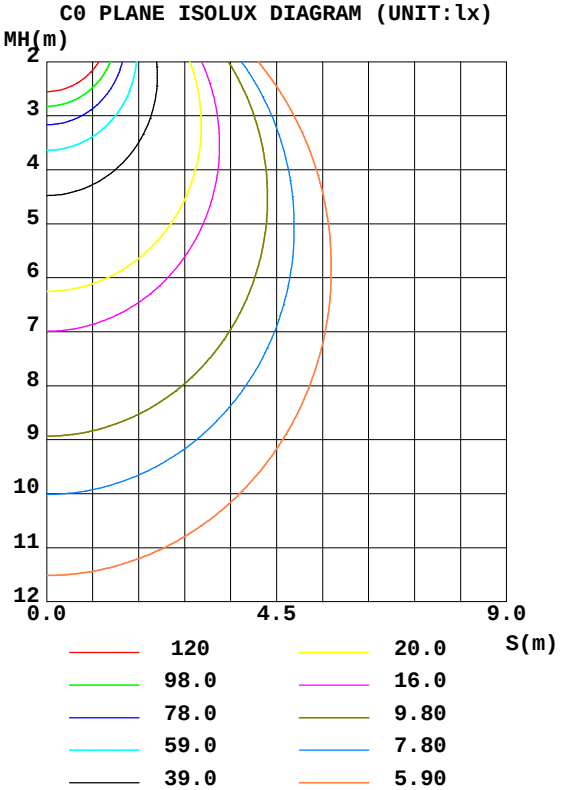
DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.23 lm/W			
MODEL		Imax(cd)	782.1	S/MH(C0/180)	1.26
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2261.8	η UP,DN(C0-180)	0.2,49.6
NOMINAL FLUX(lm)	2261.83	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.7
LAMPS INSIDE	1	η up(%)	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%):112.9 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:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	766.7	767.0	765.9	765.7	769.5	766.7	765.5	764.4	0- 10	73.82	73.82	3.26,3.26
20	724.6	726.3	725.7	725.0	729.8	725.8	724.3	723.6	10- 20	211.4	285.3	12.6,12.6
30	657.2	660.6	660.0	659.6	664.7	659.8	658.3	657.6	20- 30	320.4	605.7	26.8,26.8
40	568.3	573.4	572.7	572.7	578.2	572.1	570.7	570.0	30- 40	386.8	992.4	43.9,43.9
50	461.4	466.0	467.2	466.0	473.1	466.4	465.4	464.5	40- 50	401.9	1394	61.6,61.6
60	340.6	346.5	347.0	345.9	352.4	345.9	344.3	344.6	50- 60	364.0	1758	77.7,77.7
70	210.8	217.9	217.4	217.9	223.9	217.5	217.0	216.7	60- 70	279.2	2038	90.1,90.1
80	85.98	92.62	91.56	92.75	98.73	93.10	92.37	92.49	70- 80	162.2	2200	97.3,97.3
90	2.745	3.721	3.906	4.219	7.523	6.105	6.108	5.891	80- 90	46.02	2246	99.3,99.3
100	1.341	1.337	1.337	1.628	3.579	3.628	3.571	3.391	90-100	2.968	2249	99.4,99.4
110	1.375	1.370	1.364	1.645	3.490	3.538	3.480	3.312	100-110	2.607	2251	99.5,99.5
120	1.488	1.478	1.469	1.738	3.506	3.560	3.496	3.324	110-120	2.455	2254	99.6,99.6
130	1.612	1.600	1.591	1.841	3.485	3.544	3.488	3.324	120-130	2.282	2256	99.7,99.7
140	1.701	1.679	1.674	1.895	3.379	3.439	3.403	3.256	130-140	1.989	2258	99.8,99.8
150	1.808	1.801	1.793	1.979	3.202	3.256	3.234	3.107	140-150	1.597	2260	99.9,99.9
160	2.033	2.043	2.022	2.157	3.006	3.010	2.997	2.900	150-160	1.168	2261	100,100
170	2.297	2.288	2.278	2.353	2.791	2.836	2.773	2.733	160-170	0.7178	2262	100,100
180	2.519	2.515	2.498	2.513	2.523	2.512	2.500	2.511	170-180	0.2429	2262	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:2023-11-07

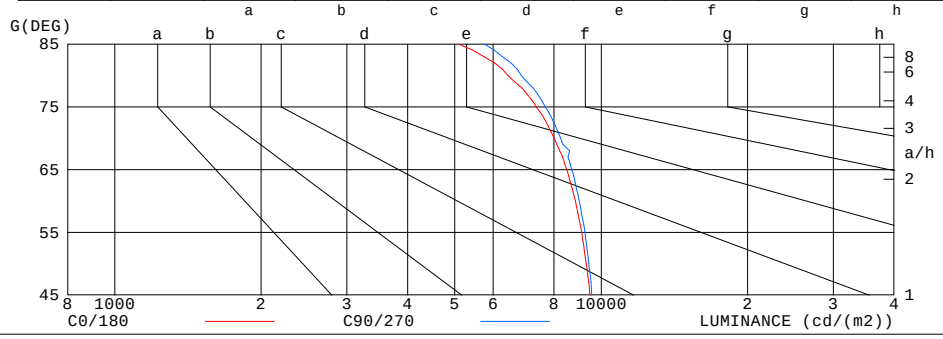
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-12S24P-V4.0,
LED:亮锐普通光效

LUMINANCE LIMITATION CURVES

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5097	5756
80	6431	6847
75	7355	7672
70	8005	8256
65	8499	8701
60	8846	9012
55	9117	9257
50	9322	9439
45	9478	9568

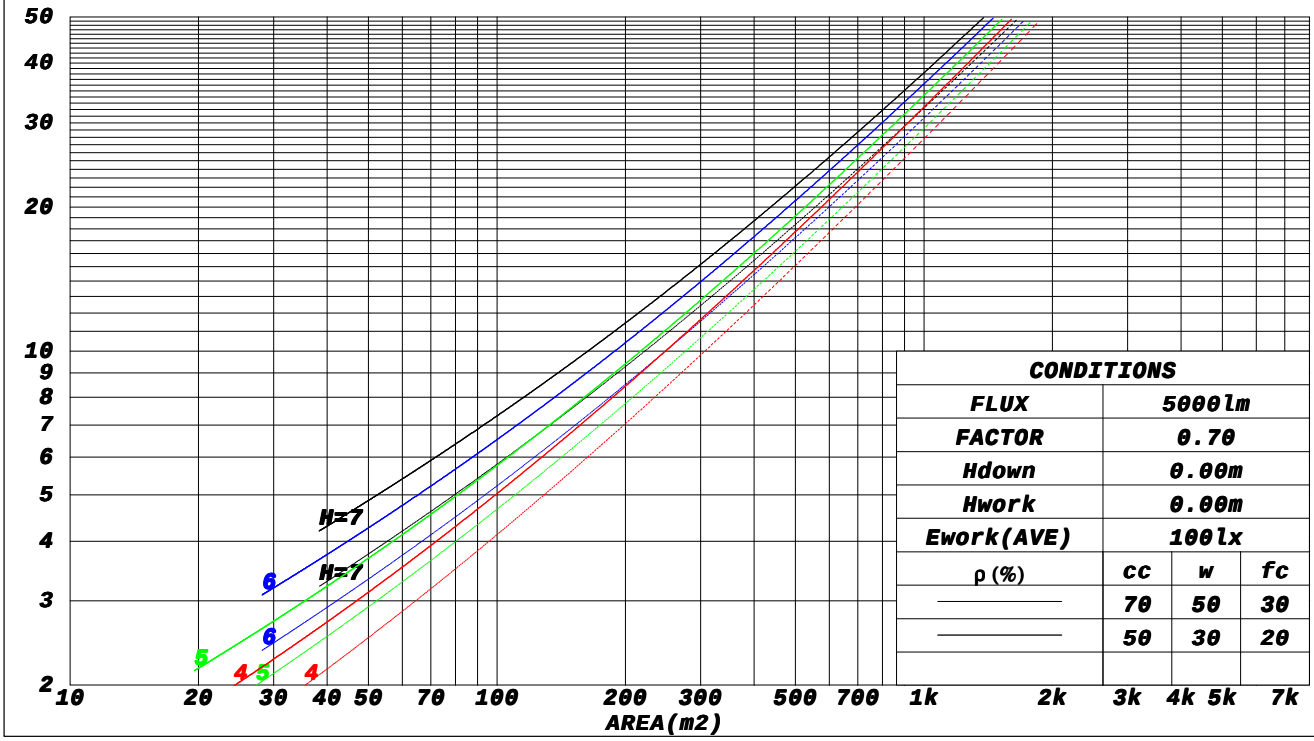
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	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	.74	.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	.51	.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	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.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:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

WEC AND CCEC

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	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	.313	.178	.056	.305	.174	.055	.292	.167	.053	.279	.161	.052	.267	.155	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.047	.264	.148	.046	.254	.143	.045	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.231	.118	.034	.227	.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	.099	.028	.196	.097	.028	.189	.096	.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	.056	.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:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

UGR(Unified Glare Rating) Table

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	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	19.8	21.4	20.2	21.8	22.1	19.8	21.5	20.2	21.8	22.1
3H	21.6	23.1	22.0	23.4	23.8	21.7	23.2	22.1	23.5	23.9
4H	22.3	23.7	22.7	24.0	24.4	22.4	23.8	22.8	24.1	24.5
6H	22.7	24.0	23.2	24.4	24.8	22.9	24.2	23.3	24.5	25.0
8H	22.9	24.1	23.3	24.5	24.9	23.0	24.3	23.5	24.7	25.1
12H	23.0	24.2	23.4	24.6	25.0	23.1	24.3	23.6	24.7	25.2
4H 2H	20.5	21.9	20.9	22.2	22.6	20.5	21.9	20.9	22.2	22.6
3H	22.5	23.7	22.9	24.1	24.5	22.6	23.7	23.0	24.1	24.5
4H	23.3	24.3	23.7	24.8	25.2	23.4	24.4	23.8	24.8	25.3
6H	23.9	24.8	24.4	25.3	25.7	24.0	24.9	24.5	25.4	25.8
8H	24.1	25.0	24.6	25.4	25.9	24.2	25.1	24.7	25.5	26.0
12H	24.2	25.0	24.7	25.5	26.0	24.3	25.1	24.8	25.6	26.1
8H 4H	23.6	24.5	24.1	24.9	25.4	23.7	24.6	24.2	25.0	25.5
6H	24.4	25.1	24.9	25.6	26.1	24.4	25.2	24.9	25.7	26.1
8H	24.6	25.3	25.1	25.8	26.3	24.7	25.4	25.2	25.9	26.4
12H	24.8	25.4	25.3	25.9	26.5	24.9	25.5	25.4	26.0	26.6
12H 4H	23.7	24.4	24.1	24.9	25.4	23.7	24.5	24.2	25.0	25.5
6H	24.4	25.1	25.0	25.6	26.1	24.5	25.2	25.0	25.6	26.2
8H	24.7	25.3	25.3	25.8	26.4	24.8	25.4	25.3	25.9	26.5
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:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

UTILIZATION FACTORS TABLE

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

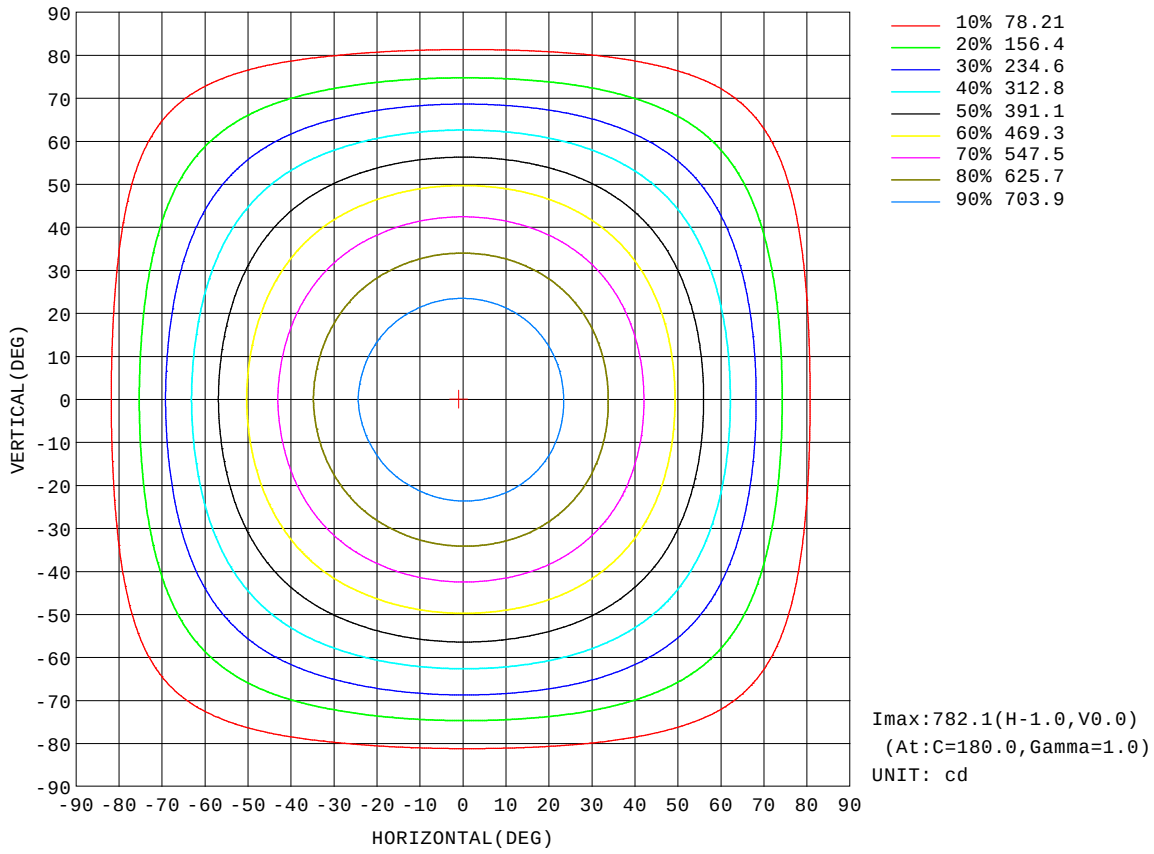
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	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:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

ISOCANDELA DIAGRAM

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	



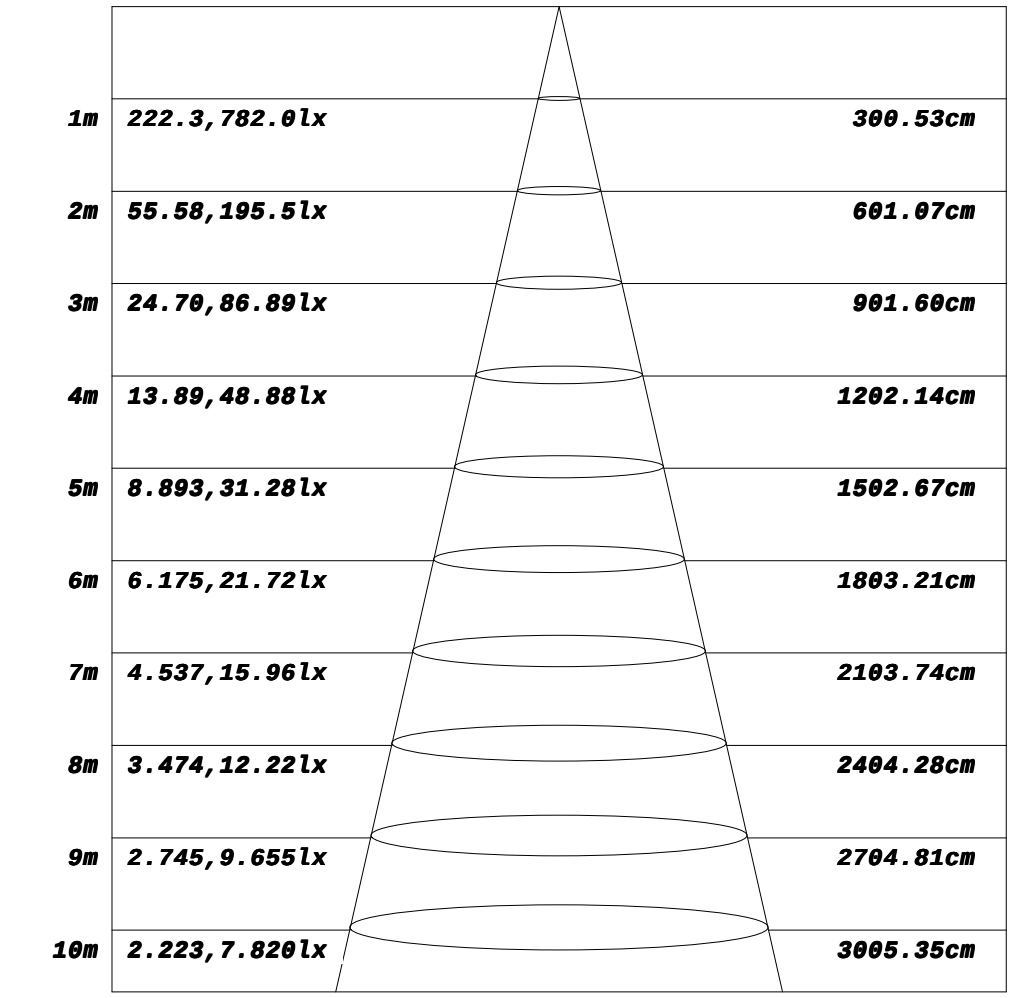
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Remarks: 电源:AGT-I781g-0550(550mA),
PCB:A320-12S24P-V4.0,
LED:亮锐普通光效

AAI Figure

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	

Flux out:1656 lm



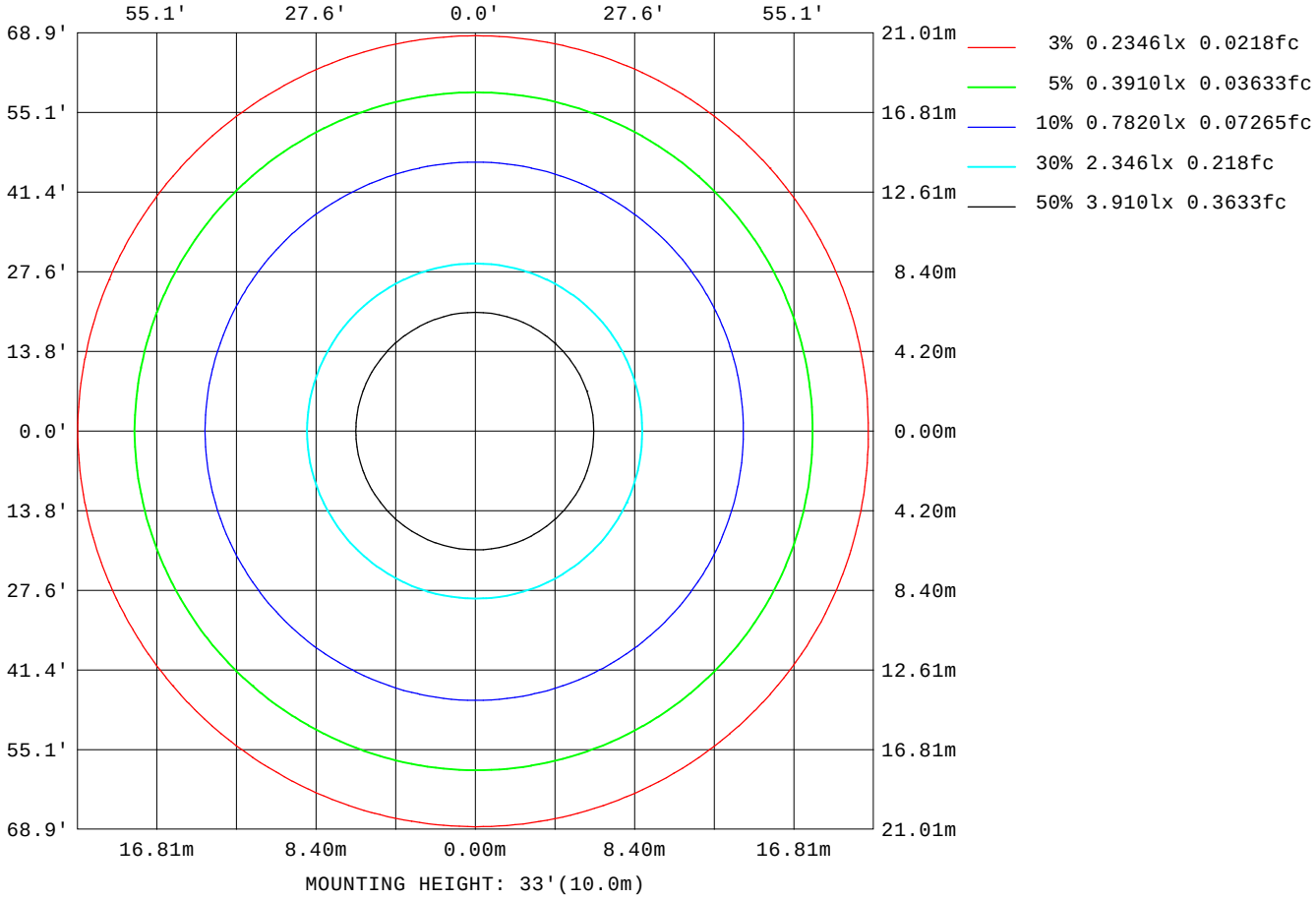
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

ISOLUX DIAGRAM

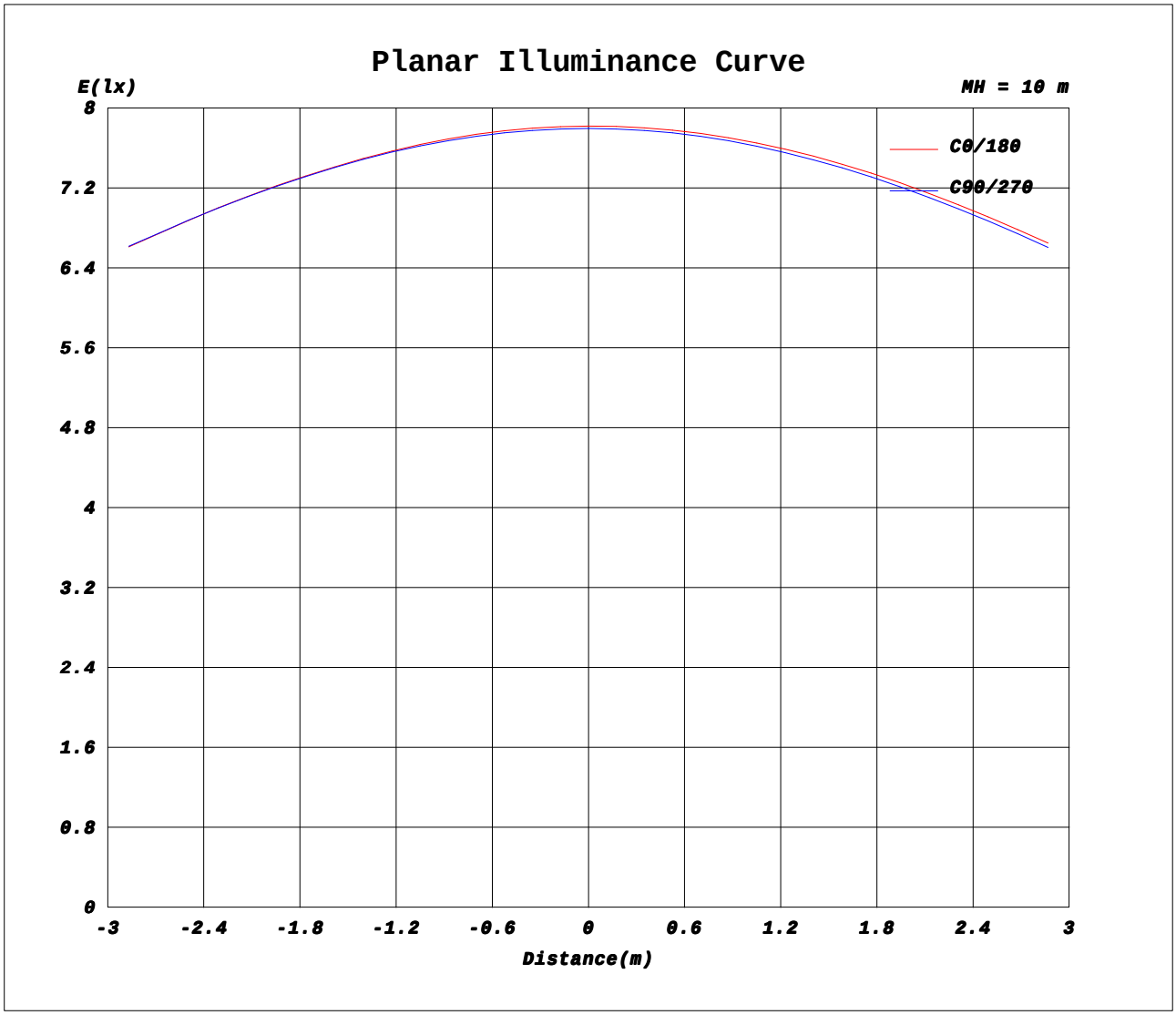
Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	Type: 圆柱形	
MFR.:	DIM.: Φ320*57mm	
	SUR.: Φ315mm	



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-07

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:A320-12S24P-V4.0,
LED:亮锐普通光效

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.80V I:0.1010A P:21.700W PF:0.9670 Freq:50.00Hz Lamp Flux:2261.83x1 lm		
Name: A320 22W 000 3000K(Black)	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	782	781	780	780	779	780	782	781	780	780	779	779
5	778	778	777	776	775	776	779	778	777	776	775	775
10	767	767	767	766	765	766	770	768	766	766	764	764
15	749	750	750	749	748	749	753	751	749	748	747	747
20	725	726	726	726	724	726	730	727	725	724	724	724
25	694	696	696	696	694	696	700	697	694	694	693	693
30	657	660	661	660	659	661	665	661	658	658	658	657
35	615	619	620	619	617	620	624	620	617	617	616	616
40	568	573	574	573	571	574	578	574	571	571	570	570
45	516	520	521	521	519	522	528	523	520	521	520	518
50	461	465	467	467	465	467	473	468	465	465	465	464
55	403	407	409	409	406	408	414	409	406	406	407	406
60	341	345	347	347	345	347	352	348	344	344	345	344
65	277	282	284	283	282	284	289	284	281	282	282	281
70	211	217	219	217	216	219	224	219	216	217	218	216
75	147	152	154	153	152	155	160	155	152	153	154	152
80	86.0	92.0	93.3	91.6	91.2	94.3	98.7	94.5	91.7	92.4	93.3	91.6
85	34.2	38.1	39.3	38.6	37.6	40.4	44.9	41.3	39.1	40.1	40.6	38.9
90	2.75	3.54	3.90	3.91	3.49	4.95	7.52	6.47	5.74	6.11	6.37	5.41
95	1.35	1.35	1.35	1.36	1.21	2.09	3.65	3.75	3.62	3.62	3.76	3.12
100	1.34	1.34	1.34	1.34	1.20	2.06	3.58	3.68	3.57	3.57	3.71	3.07
105	1.35	1.35	1.34	1.34	1.21	2.05	3.53	3.64	3.53	3.52	3.66	3.04
110	1.38	1.37	1.37	1.36	1.24	2.05	3.49	3.59	3.48	3.48	3.61	3.01
115	1.42	1.41	1.41	1.41	1.28	2.07	3.48	3.58	3.47	3.47	3.59	3.01
120	1.49	1.48	1.47	1.47	1.35	2.13	3.51	3.61	3.51	3.50	3.61	3.04
125	1.55	1.55	1.54	1.53	1.41	2.17	3.51	3.62	3.51	3.49	3.61	3.06
130	1.61	1.60	1.60	1.59	1.48	2.20	3.49	3.59	3.50	3.49	3.59	3.06
135	1.66	1.65	1.64	1.64	1.52	2.22	3.45	3.55	3.47	3.46	3.56	3.04
140	1.70	1.68	1.67	1.67	1.57	2.22	3.38	3.48	3.40	3.40	3.50	3.01
145	1.75	1.73	1.72	1.72	1.62	2.22	3.30	3.39	3.33	3.33	3.41	2.96
150	1.81	1.80	1.80	1.79	1.71	2.25	3.20	3.28	3.23	3.23	3.31	2.90
155	1.91	1.94	1.93	1.90	1.83	2.29	3.10	3.14	3.10	3.14	3.17	2.81
160	2.03	2.05	2.04	2.02	1.97	2.35	3.01	3.03	2.98	3.00	3.04	2.76
165	2.20	2.17	2.15	2.15	2.11	2.41	2.92	2.94	2.88	2.87	2.91	2.73
170	2.30	2.29	2.28	2.28	2.26	2.45	2.79	2.85	2.82	2.77	2.80	2.67
175	2.41	2.41	2.40	2.39	2.39	2.49	2.66	2.71	2.71	2.69	2.67	2.59
180	2.52	2.52	2.51	2.50	2.51	2.52	2.52	2.52	2.51	2.50	2.51	2.51

C Range: 0 - 360DEG
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