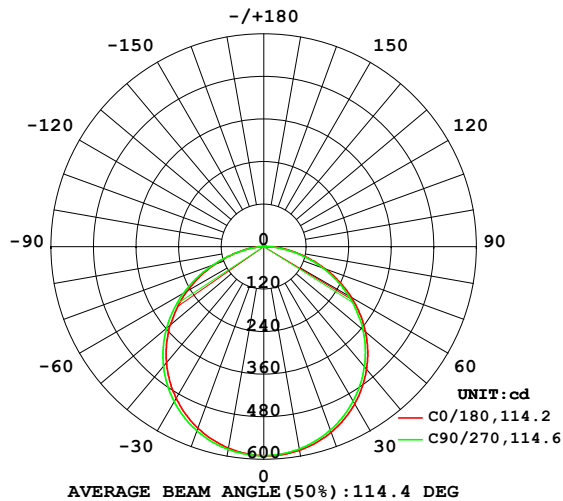


LUMINAIRE PHOTOMETRIC TEST REPORT

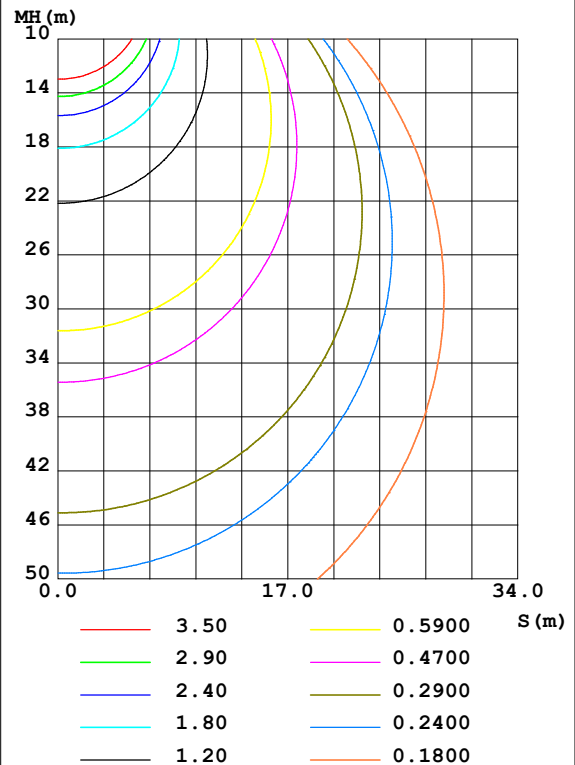
Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.49 lm/W			
MODEL		Imax(cd)	590.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1742.1	η UP,DN(C0-180)	0.6,51.3
NOMINAL FLUX(lm)	1742.08	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,47.6
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.9	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	582.9	579.2	576.8	580.7					0- 10	55.82	55.82	3.2,3.2
20	556.9	550.2	544.8	552.6					10- 20	160.3	216.1	12.4,12.4
30	512.5	503.9	494.2	505.3					20- 30	244.2	460.3	26.4,26.4
40	451.2	441.8	427.2	440.1					30- 40	296.6	756.9	43.4,43.4
50	374.7	365.8	344.7	357.9					40- 50	310.2	1067	61.3,61.3
60	284.9	275.9	248.8	260.9					50- 60	281.6	1349	77.4,77.4
70	185.2	178.2	147.2	152.7					60- 70	215.0	1564	89.8,89.8
80	87.07	79.29	56.70	51.20					70- 80	121.9	1686	96.8,96.8
90	20.13	8.095	10.53	1.212					80- 90	37.20	1723	98.9,98.9
100	2.650	1.484	1.921	1.398					90-100	4.478	1727	99.2,99.2
110	1.858	2.013	1.990	1.898					100-110	1.873	1729	99.3,99.3
120	2.346	2.605	2.501	2.443					110-120	2.173	1731	99.4,99.4
130	2.791	3.156	2.990	2.927					120-130	2.435	1734	99.5,99.5
140	3.234	3.632	3.456	3.387					130-140	2.474	1736	99.7,99.7
150	3.655	4.008	3.865	3.768					140-150	2.278	1739	99.8,99.8
160	4.024	4.331	4.388	4.223					150-160	1.869	1740	99.9,99.9
170	4.388	4.576	4.644	4.564					160-170	1.244	1742	100,100
180	4.638	4.655	4.729	4.649					170-180	0.4400	1742	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 912.85 lm

%lum = 52.4%

%lamp = 52.4%

Conical surface Flux(120deg): 1348.7 lm

%lum = 77.4%

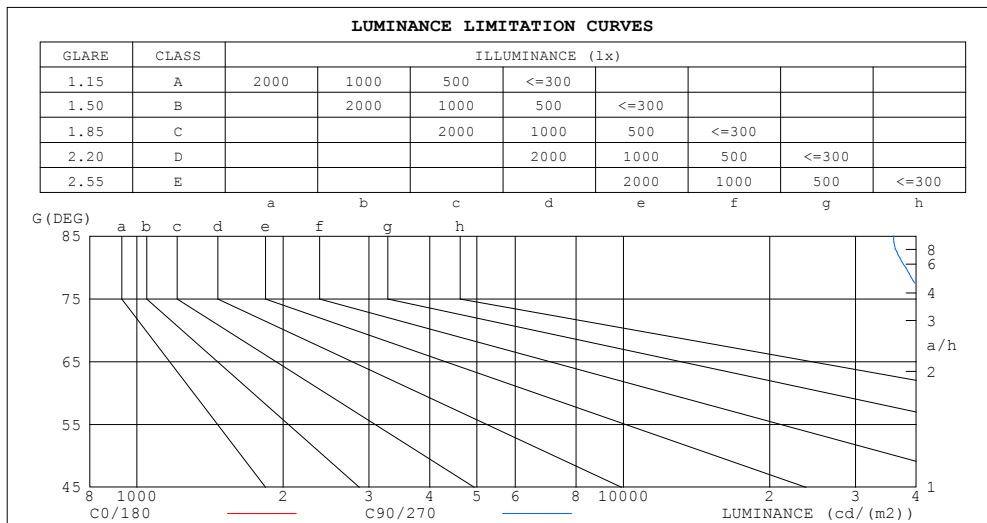
%lamp = 77.4%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	45191	36013
80	41784	38050
75	43192	41135
70	45128	43414
65	46542	44955
60	47482	45975
55	48140	46641
50	48582	47429
45	48884	47784

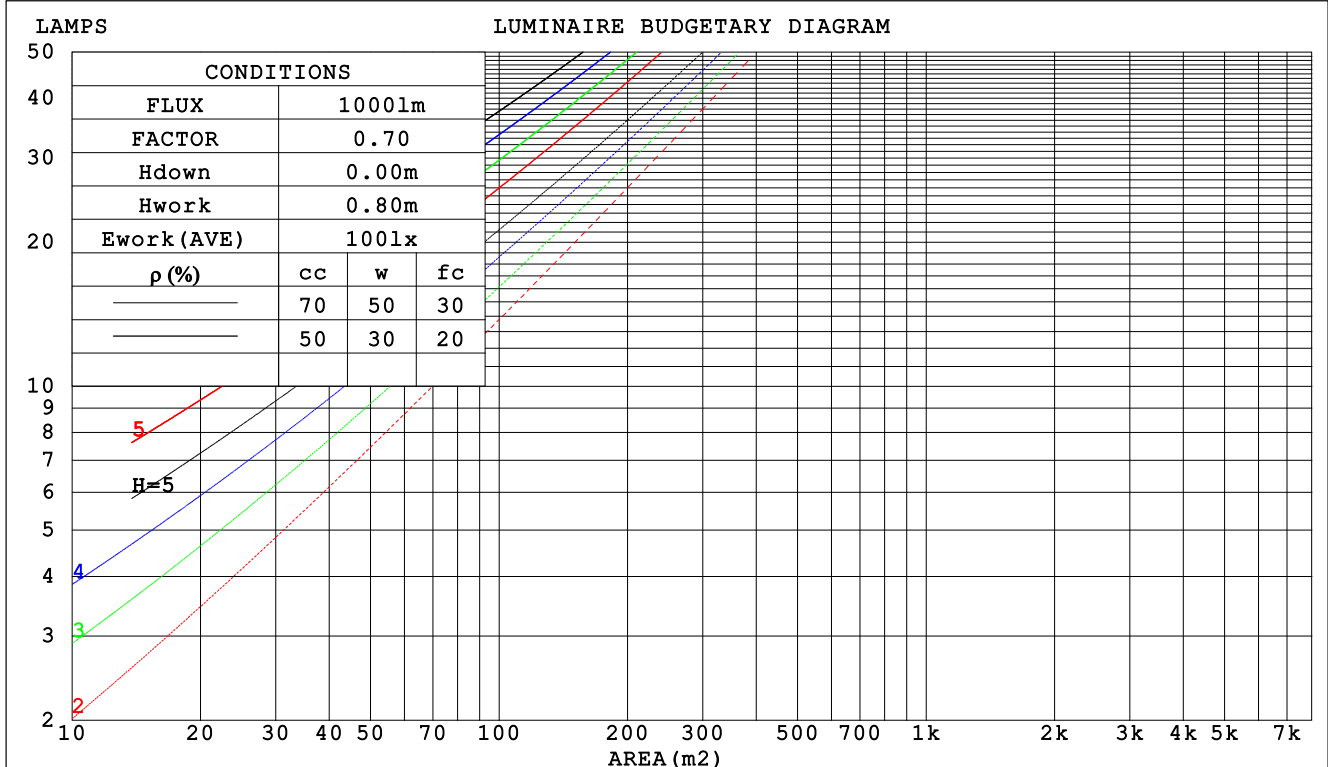
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.92	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.67	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.30	.25	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm									
NAME: 7422 2835 240LED. 2700K IRC97 24V					TYPE:				
SPEC.:									
MFR.: NORDECOR									

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						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.313	.178	.056	.306	.174	.055	.292	.167	.053	.279	.161	.052	.267	.155	.050		
2.0	.294	.161	.049	.287	.158	.049	.275	.153	.047	.264	.148	.046	.253	.143	.045		
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.235	.130	.040		
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.226	.122	.037	.218	.118	.036		
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.210	.111	.033	.202	.108	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.195	.102	.030	.189	.099	.029		
7.0	.199	.099	.028	.196	.098	.028	.189	.095	.028	.182	.094	.027	.176	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.165	.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	.151	.075	.021	.147	.074	.021		

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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021		
1.0	.189	.165	.143	.162	.141	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016		
2.0	.181	.140	.106	.155	.121	.092	.106	.084	.064	.061	.049	.038	.020	.016	.012		
3.0	.173	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010		
4.0	.166	.110	.067	.142	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008		
5.0	.158	.099	.056	.136	.086	.048	.094	.060	.034	.054	.035	.020	.017	.011	.007		
6.0	.151	.091	.048	.130	.079	.042	.090	.055	.029	.052	.032	.017	.017	.011	.006		
7.0	.144	.084	.042	.124	.073	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005		
8.0	.138	.078	.037	.119	.068	.033	.082	.048	.023	.048	.028	.014	.015	.009	.005		
9.0	.132	.073	.034	.114	.064	.030	.079	.045	.021	.046	.026	.013	.015	.009	.004		
10.0	.126	.069	.031	.109	.060	.027	.075	.042	.019	.044	.025	.012	.014	.008	.004		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm										
NAME: 7422 2835 240LED. 2700K IRC97 24V					TYPE:					
SPEC.:										
MFR.: NORDECOR										
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	24.5	26.0	24.8	26.3	26.5	24.4	25.9	24.7	26.1	26.4
3H	26.2	27.6	26.5	27.8	28.1	26.0	27.4	26.3	27.7	27.9
4H	26.9	28.2	27.2	28.5	28.7	26.7	28.0	27.0	28.3	28.6
6H	27.4	28.7	27.7	28.9	29.2	27.2	28.4	27.5	28.7	29.0
8H	27.6	28.8	28.0	29.1	29.4	27.3	28.6	27.7	28.9	29.2
12H	27.8	28.9	28.1	29.3	29.6	27.5	28.6	27.8	28.9	29.3
4H 2H	25.2	26.5	25.5	26.8	27.0	25.1	26.4	25.4	26.7	26.9
3H	27.0	28.2	27.4	28.5	28.8	26.9	28.0	27.2	28.3	28.7
4H	27.8	28.9	28.2	29.2	29.6	27.7	28.7	28.1	29.1	29.4
6H	28.5	29.4	28.9	29.8	30.2	28.3	29.2	28.7	29.6	30.0
8H	28.8	29.6	29.2	30.0	30.4	28.5	29.4	28.9	29.8	30.2
12H	29.0	29.8	29.4	30.2	30.6	28.7	29.5	29.1	29.9	30.3
8H 4H	28.1	29.0	28.5	29.4	29.8	28.0	28.9	28.4	29.2	29.6
6H	28.9	29.7	29.4	30.1	30.6	28.8	29.5	29.2	29.9	30.4
8H	29.3	30.0	29.8	30.4	30.9	29.1	29.7	29.6	30.2	30.7
12H	29.7	30.2	30.2	30.7	31.2	29.4	29.9	29.9	30.4	30.9
12H 4H	28.1	28.9	28.6	29.3	29.8	28.0	28.8	28.4	29.2	29.6
6H	29.0	29.7	29.5	30.1	30.6	28.8	29.5	29.3	29.9	30.4
8H	29.4	30.0	29.9	30.5	31.0	29.2	29.8	29.7	30.2	30.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1742 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)
Area: 0.012 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

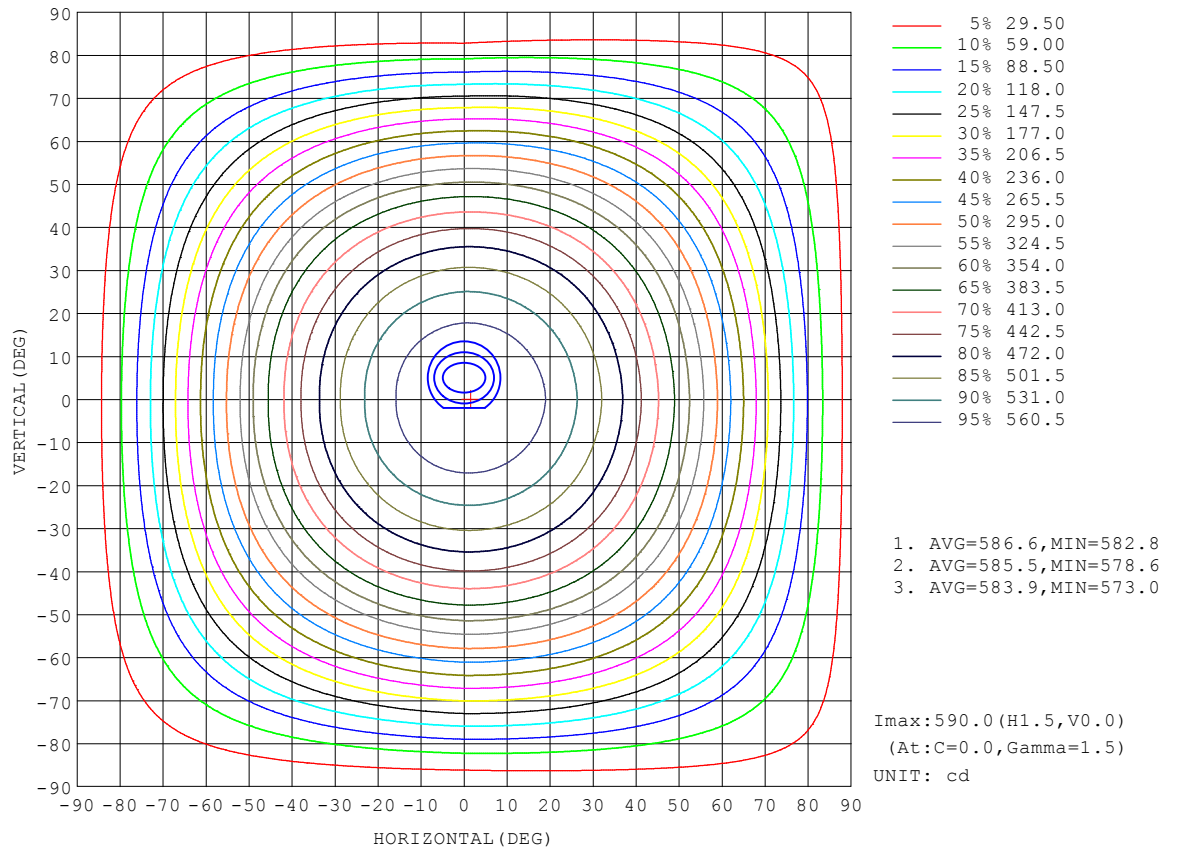
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	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	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-04

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

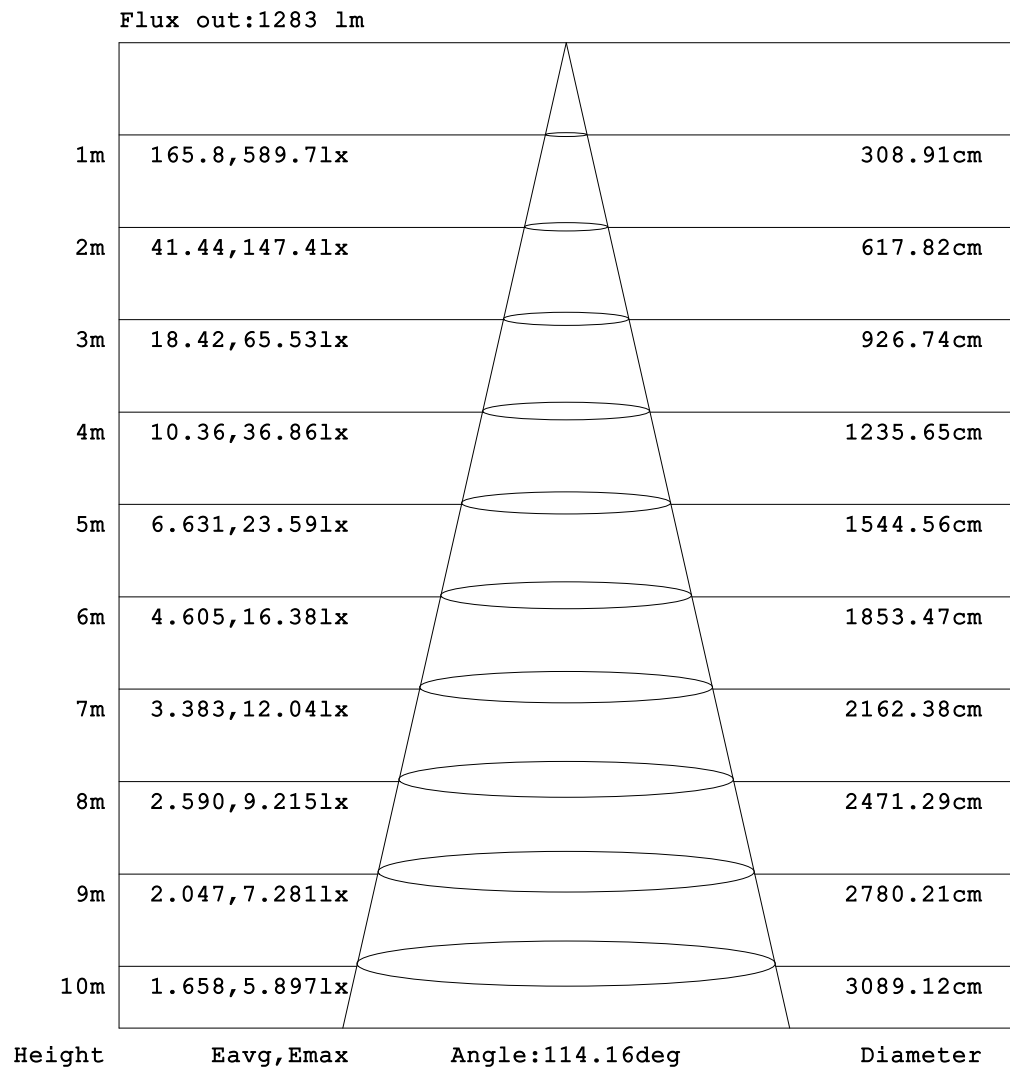


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



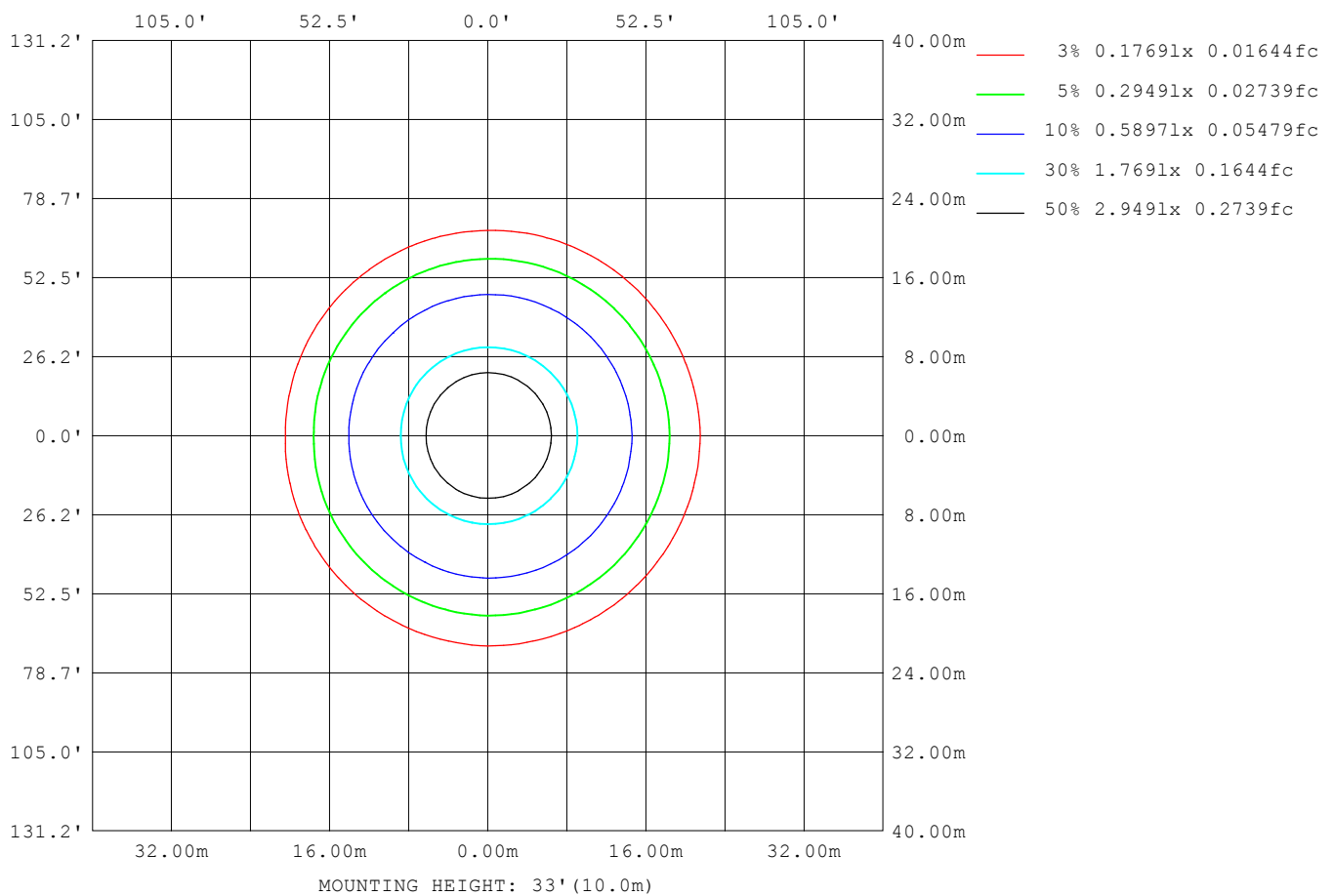
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

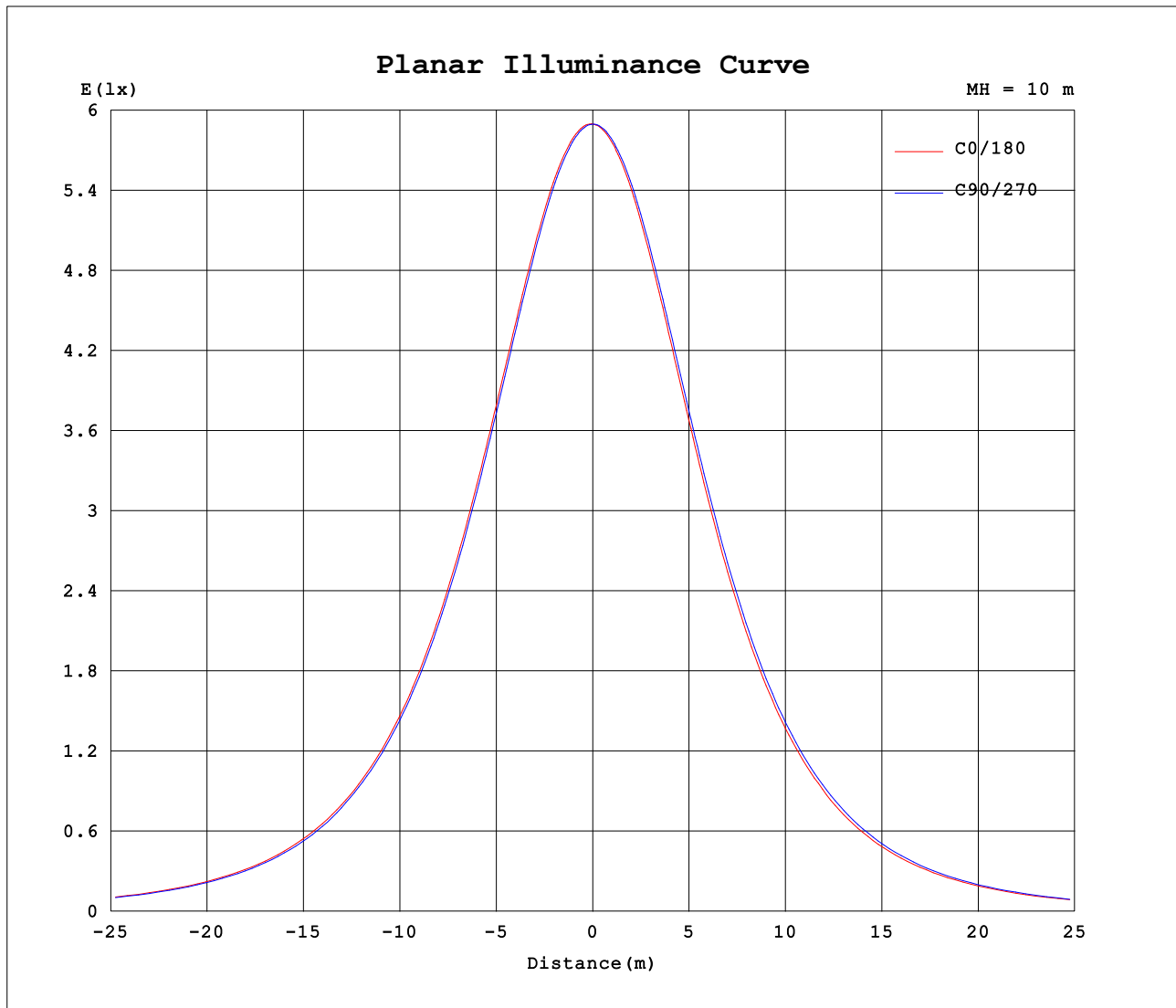
AvgL	cd/m2
L_0~180 (65) av	42820
L_0~180 (75) av	37443
L_0~180 (85) av	35127
L_90~270 (65) av	42989
L_90~270 (75) av	36502
L_90~270 (85) av	25220
L_45 (65) av	42693
L_45 (75) av	36495
L_45 (85) av	28306

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1742.08x1 lm		
NAME: 7422 2835 240LED. 2700K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	590	590	590	590															
5	589	587	586	588															
10	583	579	577	581															
15	572	567	563	569															
20	557	550	545	553															
25	537	529	522	531															
30	512	504	494	505															
35	484	475	463	475															
40	451	442	427	440															
45	415	405	388	401															
50	375	366	345	358															
55	331	321	297	311															
60	285	276	249	261															
65	236	228	198	208															
70	185	178	147	153															
75	134	128	98.4	99.0															
80	87.1	79.3	56.7	51.2															
85	47.3	37.7	26.2	15.1															
90	20.1	8.09	10.5	1.21															
95	7.18	1.31	3.80	1.22															
100	2.65	1.48	1.92	1.40															
105	1.74	1.73	1.78	1.65															
110	1.86	2.01	1.99	1.90															
115	2.07	2.30	2.23	2.18															
120	2.35	2.60	2.50	2.44															
125	2.53	2.88	2.75	2.72															
130	2.79	3.16	2.99	2.93															
135	3.00	3.41	3.24	3.16															
140	3.23	3.63	3.46	3.39															
145	3.47	3.84	3.68	3.57															
150	3.65	4.01	3.87	3.77															
155	3.85	4.17	4.20	4.07															
160	4.02	4.33	4.39	4.22															
165	4.20	4.49	4.53	4.37															
170	4.39	4.58	4.64	4.56															
175	4.57	4.66	4.72	4.61															
180	4.64	4.66	4.73	4.65															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: