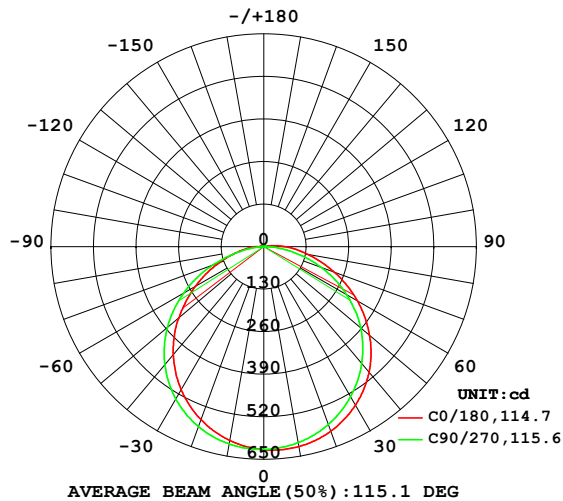


LUMINAIRE PHOTOMETRIC TEST REPORT

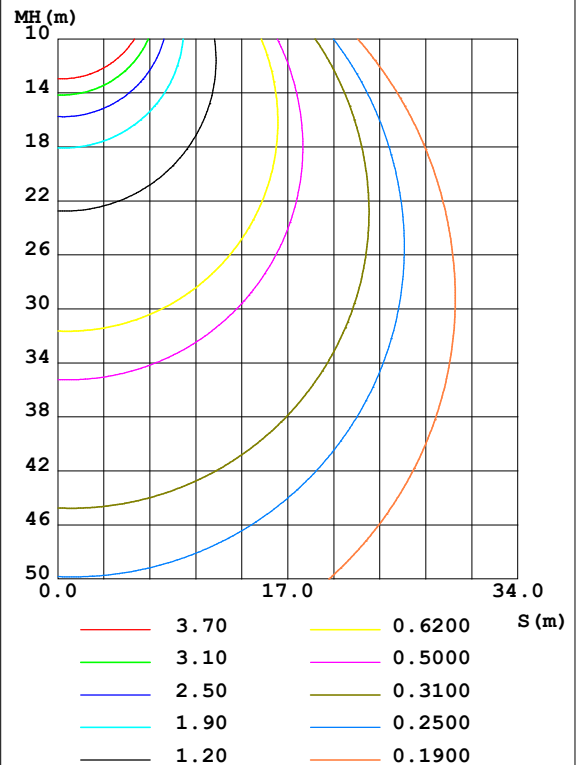
Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.45 lm/W			
MODEL		I _{max} (cd)	622.8	S/MH (C0/180)	1.22
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	1889.1	η UP, DN (C0-180)	1.0, 52.5
NOMINAL FLUX (lm)	1889.09	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 45.9
LAMPS INSIDE	1	η up (%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	98.3	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: 2026-05-06

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	620.1	608.1	601.4	612.1					0- 10	58.73	58.73	3.11,3.11
20	600.0	577.9	562.6	584.9					10- 20	168.9	227.6	12.1,12.1
30	559.8	530.3	505.1	537.6					20- 30	258.0	485.6	25.7,25.7
40	500.8	465.9	430.3	470.7					30- 40	314.2	799.8	42.3,42.3
50	422.1	386.8	339.2	384.8					40- 50	329.4	1129	59.8,59.8
60	330.0	291.9	240.6	281.7					50- 60	300.0	1429	75.7,75.7
70	229.7	188.0	146.4	165.6					60- 70	232.2	1661	87.9,87.9
80	136.0	83.74	69.63	56.25					70- 80	140.1	1802	95.4,95.4
90	65.73	8.949	23.28	1.285					80- 90	56.12	1858	98.3,98.3
100	12.47	1.637	4.875	1.478					90-100	14.94	1873	99.1,99.1
110	2.256	2.195	2.331	1.995					100-110	2.697	1875	99.3,99.3
120	2.512	2.802	2.746	2.546					110-120	2.398	1878	99.4,99.4
130	2.938	3.405	3.246	3.091					120-130	2.611	1880	99.5,99.5
140	3.369	3.916	3.718	3.529					130-140	2.628	1883	99.7,99.7
150	3.819	4.280	4.121	3.972					140-150	2.406	1885	99.8,99.8
160	4.262	4.610	4.621	4.450					150-160	1.973	1887	99.9,99.9
170	4.644	4.860	4.860	4.746					160-170	1.313	1889	100,100
180	4.894	4.934	4.888	4.911					170-180	0.4623	1889	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 965.39 lm

%lum = 51.1%

%lamp = 51.1%

Conical surface Flux(120deg): 1429.2 lm

%lum = 75.7%

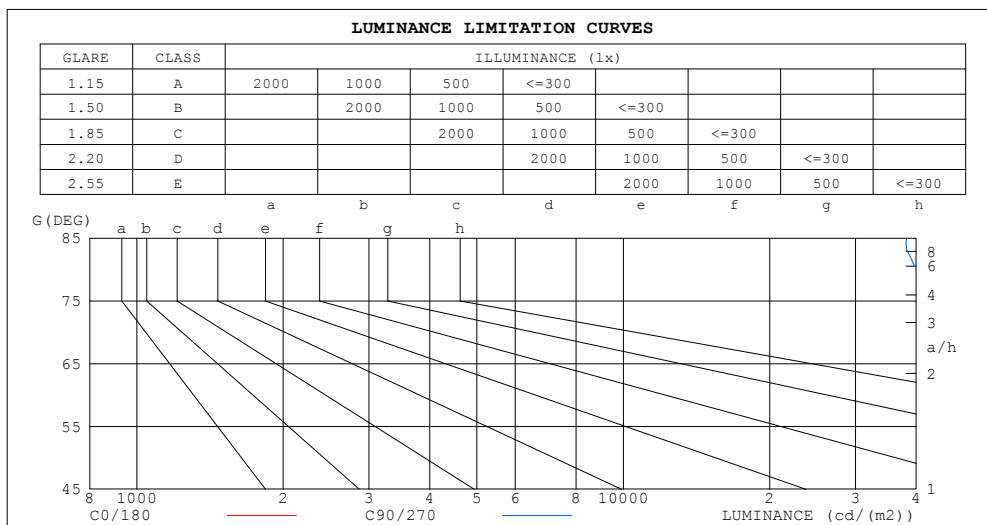
%lamp = 75.7%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	93324	38226
80	65275	40186
75	58113	43382
70	55978	45807
65	55274	47526
60	55004	48655
55	54839	49504
50	54720	50145
45	54662	50448

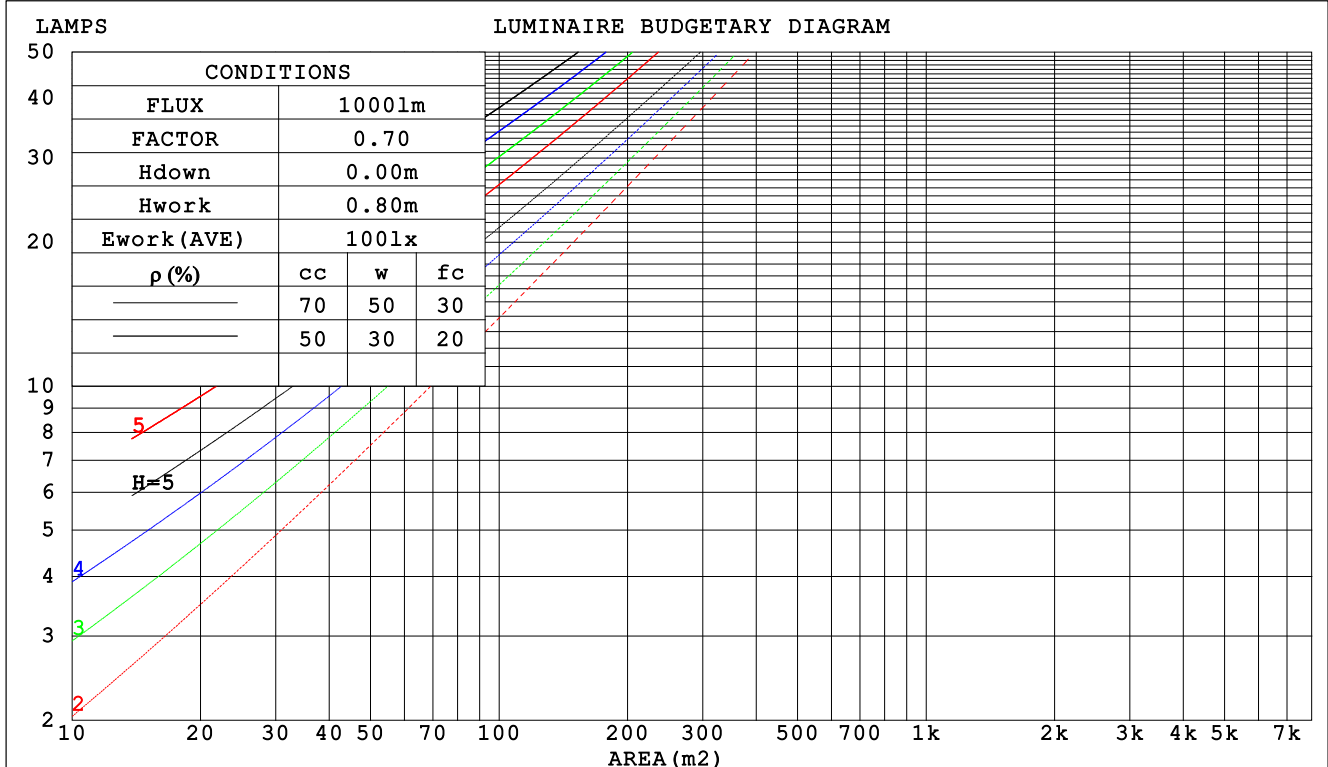
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K 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	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.03	.98	.94	1.00	.96	.92	.96	.92	.89	.91	.89	.86	.88	.85	.83	.81
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.80	.75	.71	.76	.73	.69	.67
3.0	.78	.70	.63	.76	.69	.62	.73	.66	.61	.70	.64	.60	.67	.63	.58	.56
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.62	.56	.51	.60	.55	.50	.48
5.0	.62	.52	.46	.60	.52	.45	.58	.50	.45	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.40	.54	.46	.39	.52	.45	.39	.50	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.34	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K 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	.324	.184	.058	.317	.181	.057	.302	.173	.055	.289	.167	.054	.277	.161	.052	
2.0	.300	.164	.050	.293	.162	.050	.281	.156	.048	.269	.151	.047	.258	.146	.046	
3.0	.275	.147	.044	.270	.144	.043	.258	.140	.043	.248	.136	.042	.238	.132	.041	
4.0	.253	.132	.039	.248	.130	.038	.238	.126	.038	.229	.123	.037	.220	.119	.036	
5.0	.233	.119	.034	.229	.117	.034	.220	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.201	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.177	.089	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.194	.169	.146	.166	.145	.126	.114	.100	.087	.065	.058	.051	.021	.019	.016	
2.0	.186	.145	.110	.159	.125	.095	.109	.086	.066	.063	.050	.039	.020	.016	.013	
3.0	.178	.127	.086	.153	.110	.075	.105	.076	.053	.061	.045	.031	.019	.014	.010	
4.0	.171	.114	.071	.147	.099	.061	.101	.069	.043	.058	.040	.026	.019	.013	.008	
5.0	.163	.104	.060	.140	.090	.052	.097	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.156	.095	.052	.134	.083	.045	.093	.058	.032	.054	.034	.019	.017	.011	.006	
7.0	.149	.089	.046	.128	.077	.040	.089	.054	.028	.052	.032	.017	.017	.010	.006	
8.0	.143	.083	.042	.123	.072	.036	.085	.050	.026	.049	.030	.015	.016	.010	.005	
9.0	.137	.078	.038	.118	.068	.033	.081	.047	.024	.047	.028	.014	.015	.009	.005	
10.0	.131	.074	.035	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-06

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:1889.09x1 lm										
NAME: 7424 2835 240LED. 4000K 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	24.8	26.3	25.1	26.5	26.8	24.3	25.9	24.6	26.1	26.3
3H	26.6	28.0	26.9	28.3	28.6	26.0	27.4	26.3	27.6	27.9
4H	27.5	28.8	27.8	29.1	29.4	26.6	28.0	27.0	28.2	28.5
6H	28.3	29.6	28.7	29.9	30.2	27.1	28.4	27.5	28.7	29.0
8H	28.7	29.9	29.1	30.2	30.6	27.3	28.5	27.7	28.8	29.2
12H	29.1	30.3	29.5	30.6	31.0	27.4	28.6	27.8	28.9	29.3
4H 2H	25.4	26.7	25.7	27.0	27.3	25.1	26.4	25.4	26.7	27.0
3H	27.4	28.6	27.8	28.9	29.3	26.9	28.1	27.3	28.4	28.7
4H	28.4	29.5	28.8	29.9	30.2	27.7	28.8	28.1	29.1	29.5
6H	29.4	30.4	29.8	30.8	31.2	28.3	29.3	28.8	29.7	30.1
8H	29.9	30.8	30.4	31.2	31.6	28.6	29.5	29.0	29.9	30.3
12H	30.4	31.3	30.9	31.7	32.1	28.8	29.6	29.2	30.0	30.4
8H 4H	28.7	29.6	29.2	30.0	30.5	28.1	29.0	28.5	29.4	29.8
6H	29.9	30.7	30.4	31.1	31.6	28.9	29.7	29.4	30.1	30.6
8H	30.6	31.2	31.0	31.7	32.2	29.3	30.0	29.8	30.4	30.9
12H	31.3	31.8	31.8	32.3	32.8	29.6	30.2	30.1	30.7	31.2
12H 4H	28.8	29.6	29.2	30.0	30.4	28.2	29.0	28.6	29.4	29.8
6H	30.0	30.7	30.5	31.1	31.6	29.1	29.7	29.6	30.2	30.7
8H	30.7	31.3	31.2	31.8	32.3	29.5	30.1	30.0	30.6	31.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.4				

CIE Pub.117, 1889 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.2$)
Area: 0.012 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

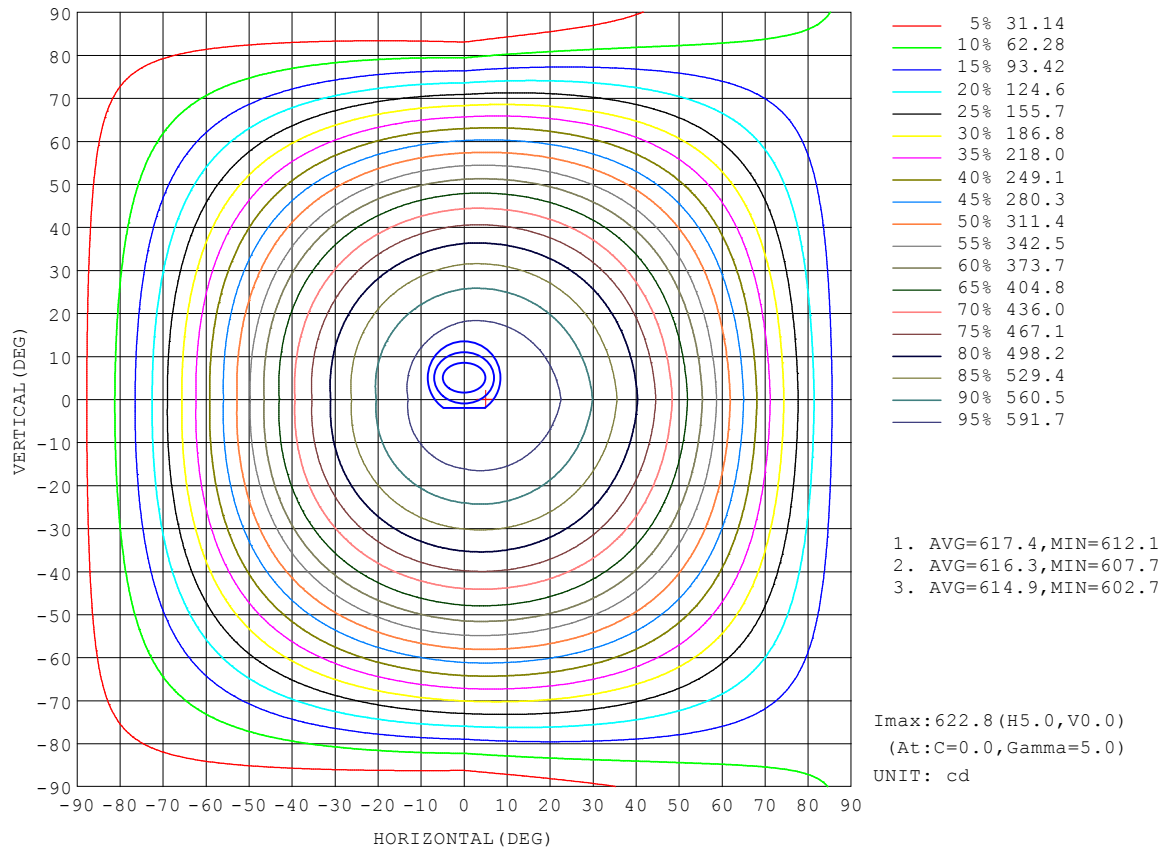
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	44	37	30
0.80	66	54	47	65	54	47	63	53	46	39
1.00	74	63	56	73	62	55	71	64	55	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	69	82	73	67	59
2.00	93	85	78	92	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	84	75
4.00	105	99	94	102	97	93	98	93	90	80
5.00	108	102	98	105	100	96	100	96	93	83
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:2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

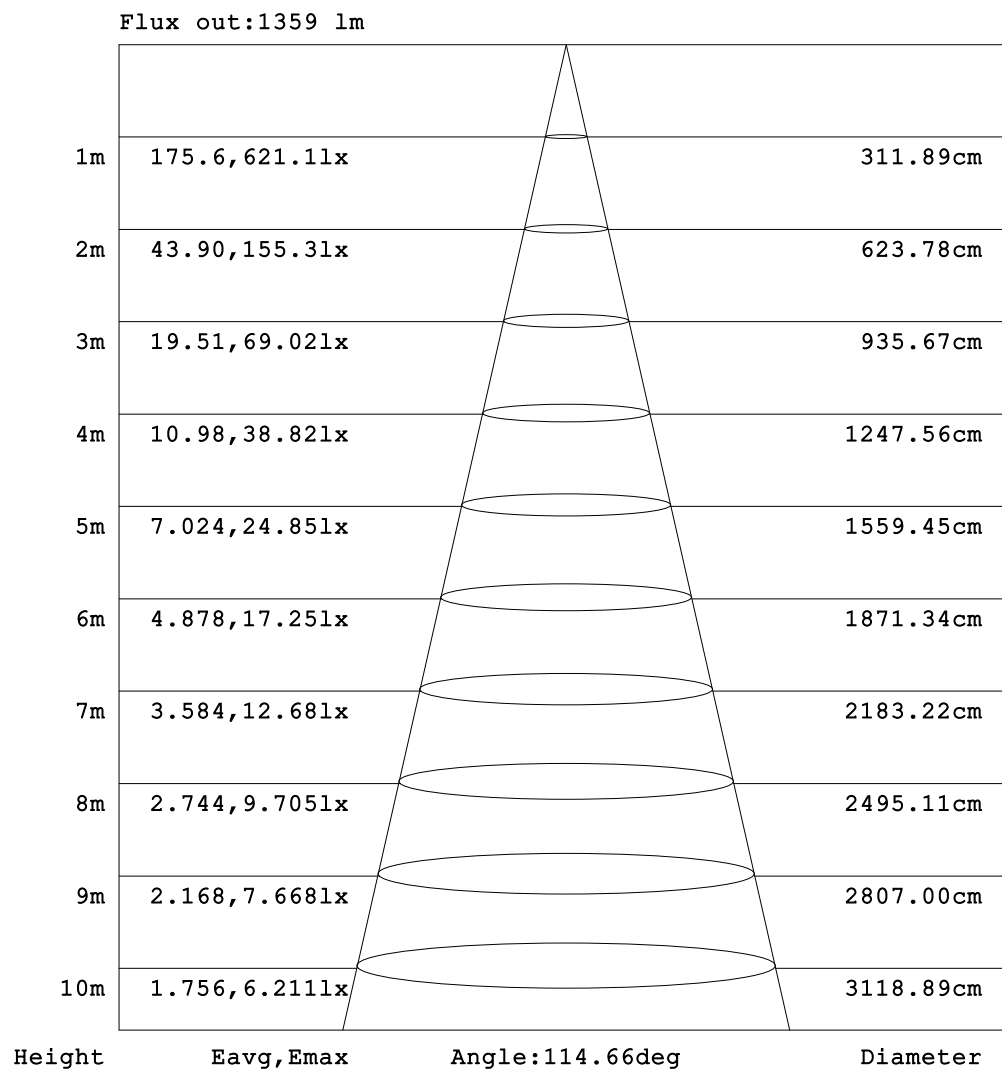


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



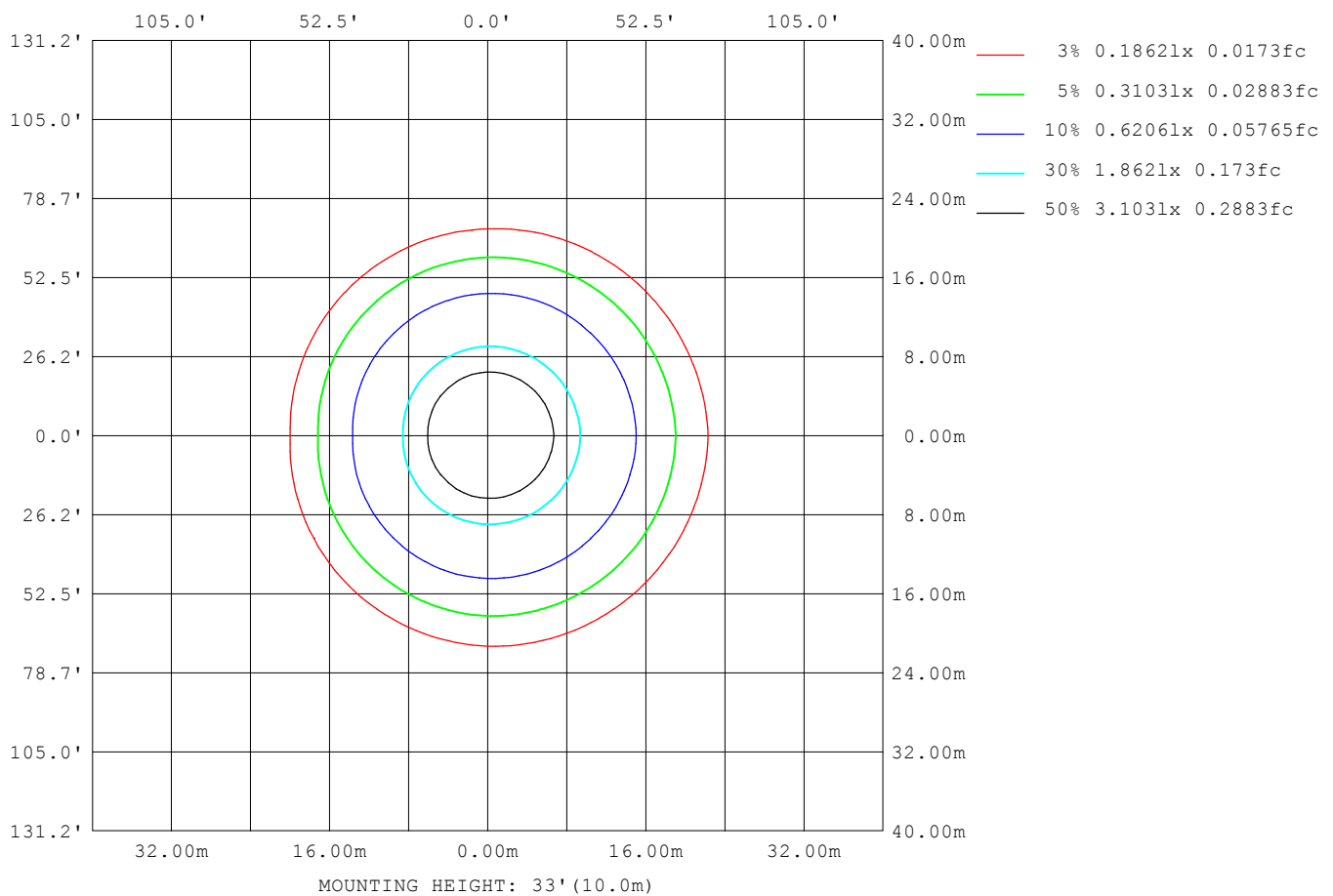
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

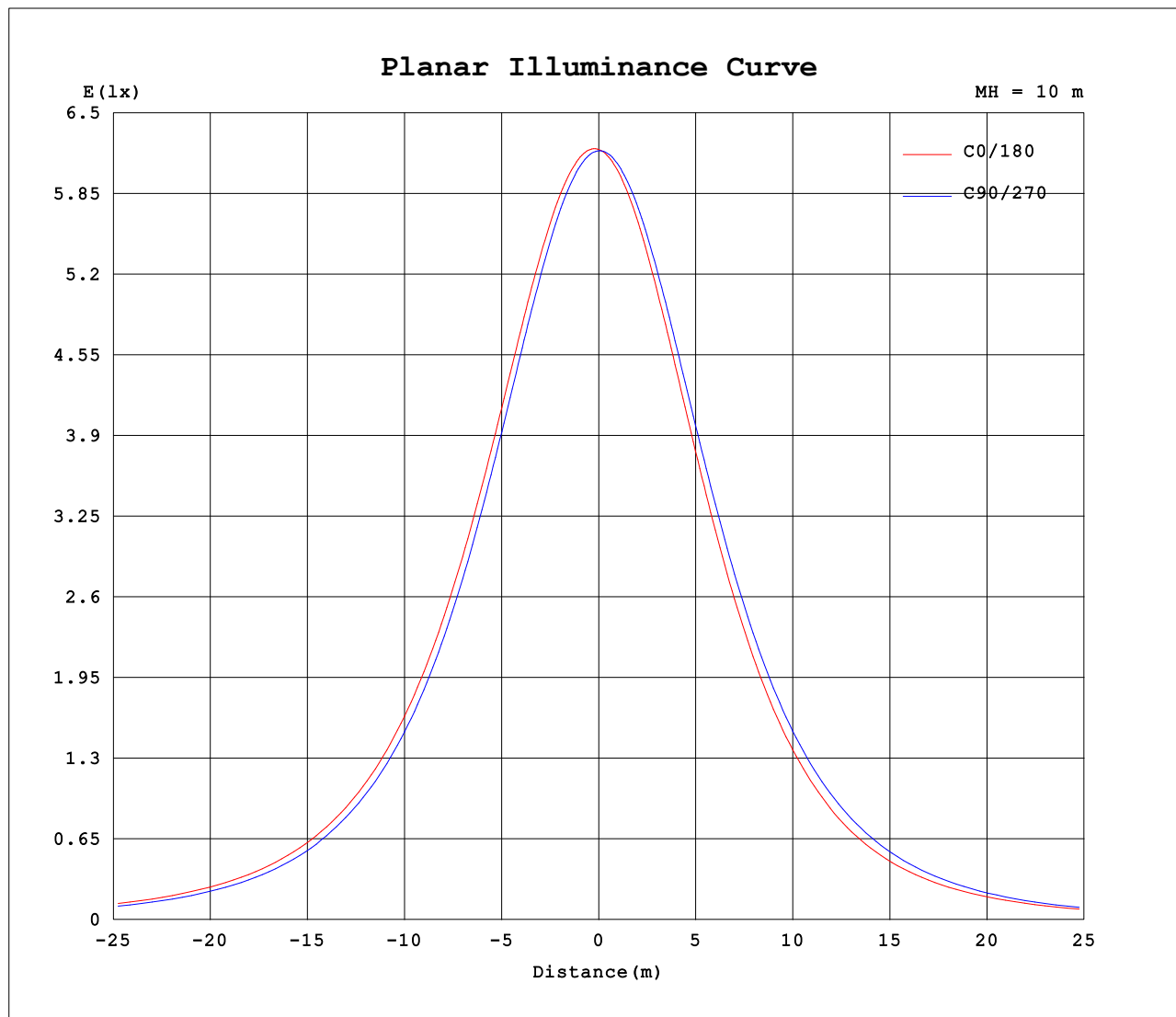
AvgL	cd/m2
L_0~180 (65) av	46630
L_0~180 (75) av	45904
L_0~180 (85) av	67098
L_90~270 (65) av	45971
L_90~270 (75) av	39085
L_90~270 (85) av	27542
L_45 (65) av	45678
L_45 (75) av	40879
L_45 (85) av	40736

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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: 2026-05-06

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:1889.09x1 lm		
NAME: 7424 2835 240LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	621	620	621	620															
5	623	616	613	618															
10	620	608	601	612															
15	613	595	584	601															
20	600	578	563	585															
25	582	556	536	564															
30	560	530	505	538															
35	533	500	470	507															
40	501	466	430	471															
45	464	428	387	430															
50	422	387	339	385															
55	377	341	290	335															
60	330	292	241	282															
65	280	241	193	225															
70	230	188	146	166															
75	180	135	105	108															
80	136	83.7	69.6	56.3															
85	97.6	40.0	42.7	17.6															
90	65.7	8.95	23.3	1.28															
95	39.7	1.46	11.3	1.29															
100	12.5	1.64	4.87	1.48															
105	2.39	1.89	2.37	1.74															
110	2.26	2.20	2.33	2.00															
115	2.36	2.50	2.52	2.28															
120	2.51	2.80	2.75	2.55															
125	2.73	3.11	3.01	2.82															
130	2.94	3.41	3.25	3.09															
135	3.10	3.68	3.48	3.32															
140	3.37	3.92	3.72	3.53															
145	3.57	4.12	3.93	3.75															
150	3.82	4.28	4.12	3.97															
155	4.01	4.46	4.43	4.27															
160	4.26	4.61	4.62	4.45															
165	4.47	4.78	4.76	4.62															
170	4.64	4.86	4.86	4.75															
175	4.77	4.93	4.92	4.89															
180	4.89	4.93	4.89	4.91															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yuan
 Test Date:2026-05-06

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: