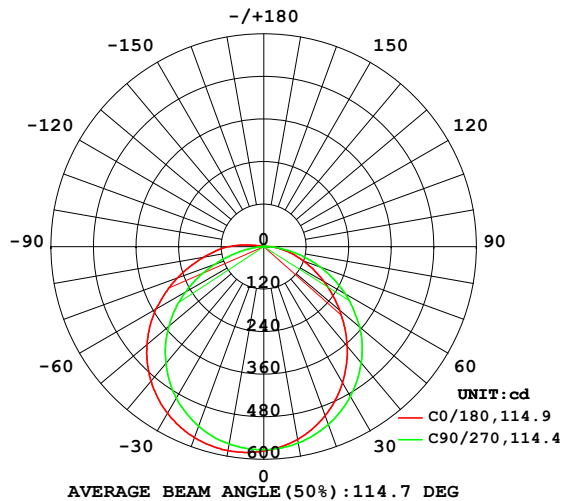


LUMINAIRE PHOTOMETRIC TEST REPORT

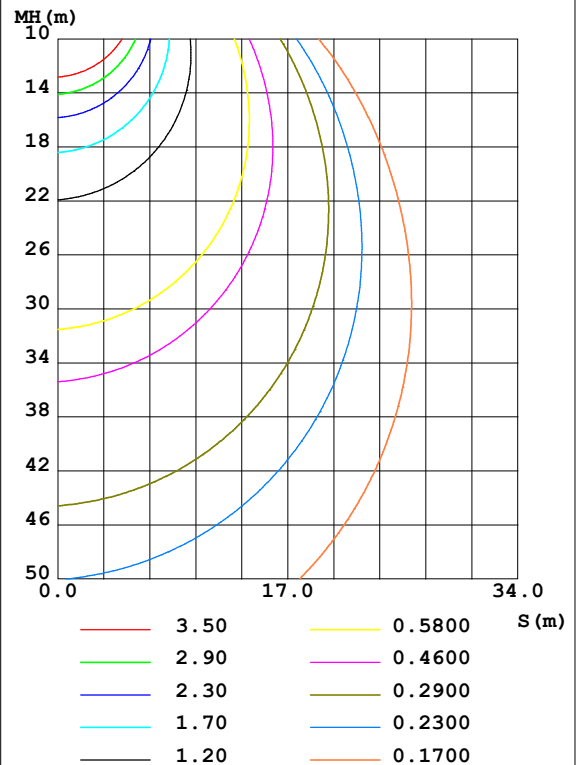
Test:U:24.000V I:0.8800A P:21.120W PF:1.0000 Freq:0Hz Lamp Flux:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.01 lm/W			
MODEL		Imax(cd)	584.1	S/MH(C0/180)	1.40
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1774.2	η UP,DN(C0-180)	0.7,44.0
NOMINAL FLUX(lm)	1774.24	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.4,53.9
LAMPS INSIDE	1	η up(%)	2.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.0	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	551.8	562.3	584.1	565.1					0- 10	54.44	54.44	3.07,3.07
20	507.2	533.5	573.0	538.5					10- 20	156.5	210.9	11.9,11.9
30	444.3	488.1	543.0	493.7					20- 30	238.4	449.3	25.3,25.3
40	366.1	427.7	495.1	429.2					30- 40	289.6	738.9	41.6,41.6
50	279.2	353.7	430.2	349.3					40- 50	303.1	1042	58.7,58.7
60	195.5	264.7	351.3	254.9					50- 60	277.5	1320	74.4,74.4
70	119.7	170.3	259.5	148.6					60- 70	218.1	1538	86.7,86.7
80	58.37	76.30	172.0	50.21					70- 80	137.9	1676	94.4,94.4
90	16.58	9.489	101.3	1.245					80- 90	62.39	1738	98,98
100	4.582	1.580	19.92	1.437					90-100	19.58	1757	99.1,99.1
110	3.461	2.109	2.075	1.898					100-110	3.367	1761	99.2,99.2
120	3.643	2.694	2.012	2.387					110-120	2.525	1763	99.4,99.4
130	3.746	3.229	2.490	2.893					120-130	2.596	1766	99.5,99.5
140	3.644	3.672	2.933	3.319					130-140	2.510	1768	99.7,99.7
150	3.978	4.036	3.399	3.717					140-150	2.253	1771	99.8,99.8
160	4.245	4.337	3.991	4.166					150-160	1.840	1773	99.9,99.9
170	4.473	4.553	4.354	4.456					160-170	1.225	1774	100,100
180	4.547	4.598	4.547	4.621					170-180	0.4309	1774	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 891.24 lm

%lum = 50.2%

%lamp = 50.2%

Conical surface Flux(120deg): 1319.6 lm

%lum = 74.4%

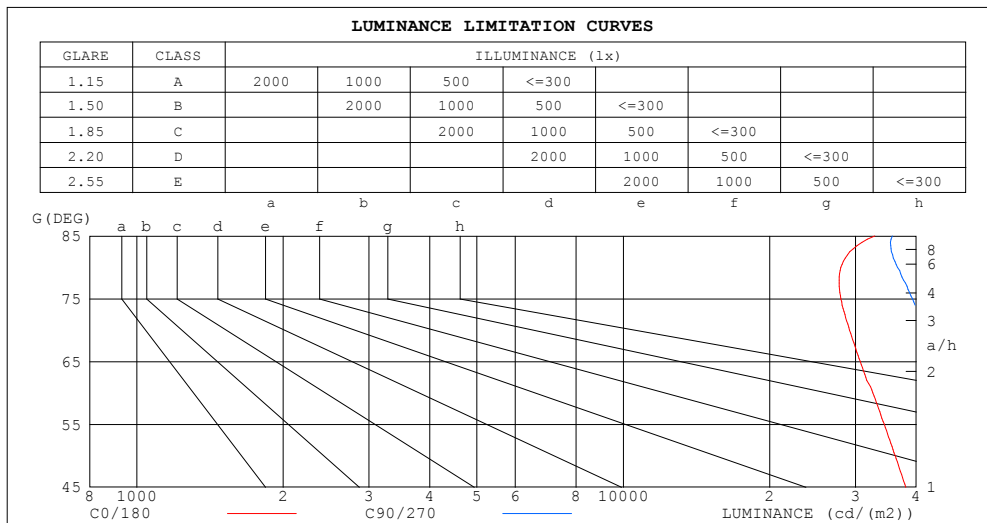
%lamp = 74.4%

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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32891	35723
80	28013	36614
75	28016	39307
70	29176	41489
65	30698	43044
60	32584	44118
55	34395	44942
50	36200	45859
45	38068	46282

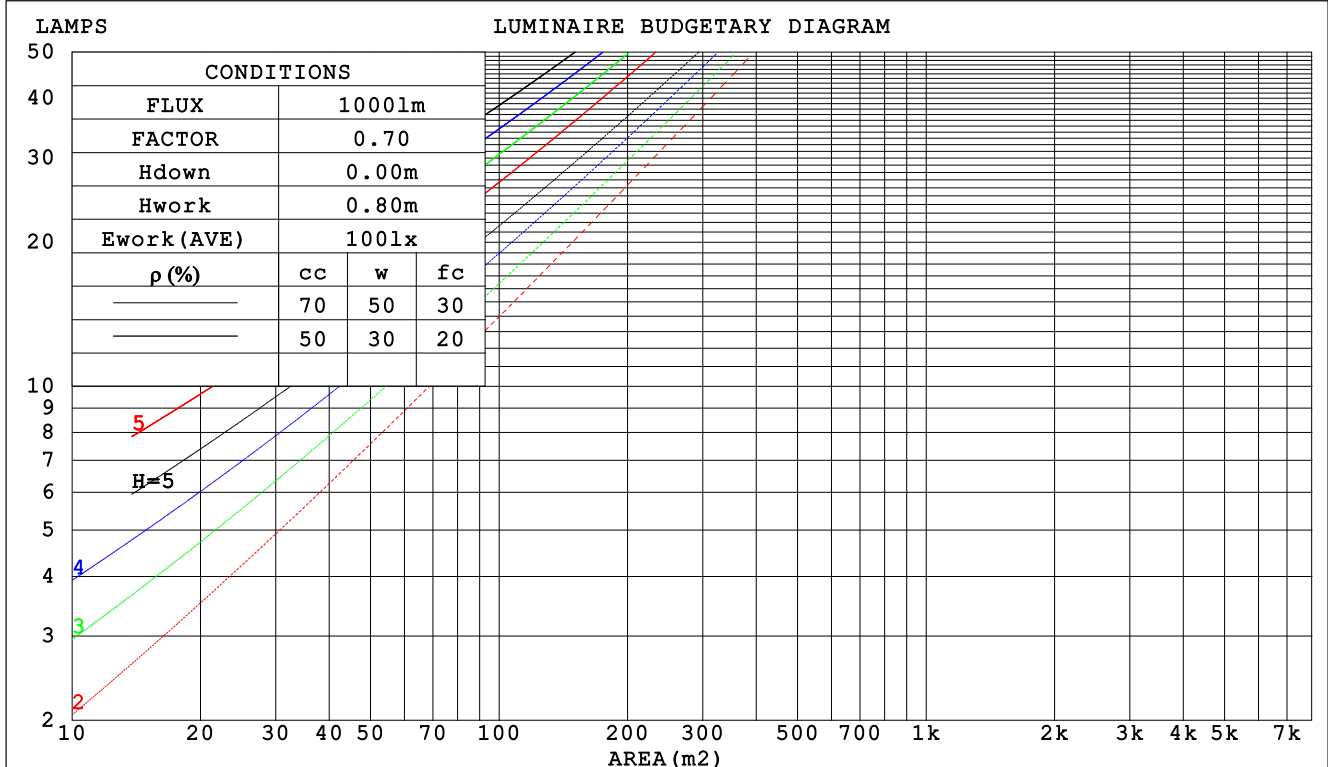
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K 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	1.00	1.00	1.00	.98
1.0	1.02	.98	.93	.90	.96	.92	.95	.92	.88	.91	.88	.85	.87	.85	.82	.80
2.0	.89	.81	.75	.87	.80	.74	.83	.77	.72	.79	.74	.70	.76	.72	.68	.66
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.60	.69	.64	.59	.67	.62	.58	.55
4.0	.69	.60	.53	.67	.59	.52	.64	.57	.51	.62	.55	.50	.59	.54	.49	.47
5.0	.61	.52	.45	.60	.51	.45	.57	.50	.44	.55	.49	.43	.53	.47	.43	.40
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.50	.41	.35	.49	.40	.34	.47	.40	.34	.45	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.24	.35	.29	.24	.22



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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K 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	.332	.189	.060	.324	.185	.059	.309	.177	.057	.296	.171	.055	.284	.164	.053	
2.0	.304	.167	.051	.297	.164	.050	.284	.158	.049	.273	.153	.048	.262	.148	.047	
3.0	.278	.148	.044	.272	.146	.044	.261	.141	.043	.250	.137	.042	.240	.133	.041	
4.0	.255	.133	.039	.250	.131	.039	.239	.127	.038	.230	.123	.037	.221	.120	.037	
5.0	.235	.120	.035	.230	.118	.034	.221	.115	.034	.212	.112	.033	.204	.109	.033	
6.0	.217	.109	.031	.213	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030	
7.0	.201	.100	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.188	.092	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.176	.085	.024	.173	.084	.024	.167	.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	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.198	.172	.148	.169	.147	.128	.116	.101	.088	.067	.059	.051	.021	.019	.017	
2.0	.190	.148	.112	.163	.127	.097	.111	.088	.068	.064	.051	.040	.021	.017	.013	
3.0	.182	.130	.089	.156	.112	.077	.107	.078	.054	.062	.046	.032	.020	.015	.010	
4.0	.174	.117	.073	.150	.101	.064	.103	.071	.045	.059	.041	.027	.019	.013	.009	
5.0	.167	.107	.063	.143	.092	.054	.099	.065	.038	.057	.038	.023	.018	.012	.008	
6.0	.159	.098	.055	.137	.085	.048	.095	.060	.034	.055	.035	.020	.018	.011	.007	
7.0	.152	.092	.049	.131	.079	.043	.091	.056	.030	.053	.033	.018	.017	.011	.006	
8.0	.146	.086	.045	.126	.074	.039	.087	.052	.028	.051	.031	.016	.016	.010	.005	
9.0	.140	.081	.041	.120	.070	.036	.083	.049	.026	.049	.029	.015	.016	.010	.005	
10.0	.134	.077	.038	.116	.067	.034	.080	.047	.024	.047	.028	.014	.015	.009	.005	

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:1774.24x1 lm										
NAME: 7423 2835 240LED. 3000K 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	22.5	24.0	22.8	24.3	24.5	23.6	25.1	23.9	25.4	25.6
3H	23.9	25.3	24.2	25.6	25.8	25.2	26.7	25.6	26.9	27.2
4H	24.4	25.8	24.8	26.1	26.4	25.9	27.3	26.3	27.6	27.9
6H	24.9	26.2	25.3	26.5	26.8	26.4	27.7	26.8	28.0	28.3
8H	25.1	26.3	25.5	26.6	27.0	26.6	27.8	27.0	28.2	28.5
12H	25.3	26.5	25.7	26.8	27.1	26.8	27.9	27.1	28.3	28.6
4H 2H	23.2	24.6	23.6	24.9	25.2	24.1	25.4	24.4	25.7	26.0
3H	24.8	26.0	25.2	26.3	26.7	25.9	27.1	26.3	27.4	27.8
4H	25.5	26.6	25.9	26.9	27.3	26.7	27.8	27.1	28.2	28.5
6H	26.1	27.1	26.5	27.4	27.9	27.4	28.3	27.8	28.7	29.2
8H	26.4	27.3	26.8	27.7	28.1	27.6	28.5	28.1	28.9	29.4
12H	26.6	27.4	27.0	27.8	28.3	27.8	28.7	28.3	29.1	29.5
8H 4H	25.9	26.8	26.3	27.2	27.6	26.9	27.8	27.4	28.2	28.7
6H	26.6	27.4	27.1	27.8	28.3	27.8	28.5	28.2	29.0	29.4
8H	27.0	27.7	27.5	28.1	28.6	28.1	28.8	28.6	29.2	29.7
12H	27.4	27.9	27.9	28.4	28.9	28.4	29.0	28.9	29.5	30.0
12H 4H	25.9	26.7	26.4	27.2	27.6	26.9	27.8	27.4	28.2	28.6
6H	26.7	27.4	27.2	27.9	28.4	27.8	28.5	28.3	29.0	29.4
8H	27.2	27.7	27.7	28.2	28.8	28.2	28.8	28.7	29.3	29.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 1774 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.0)
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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

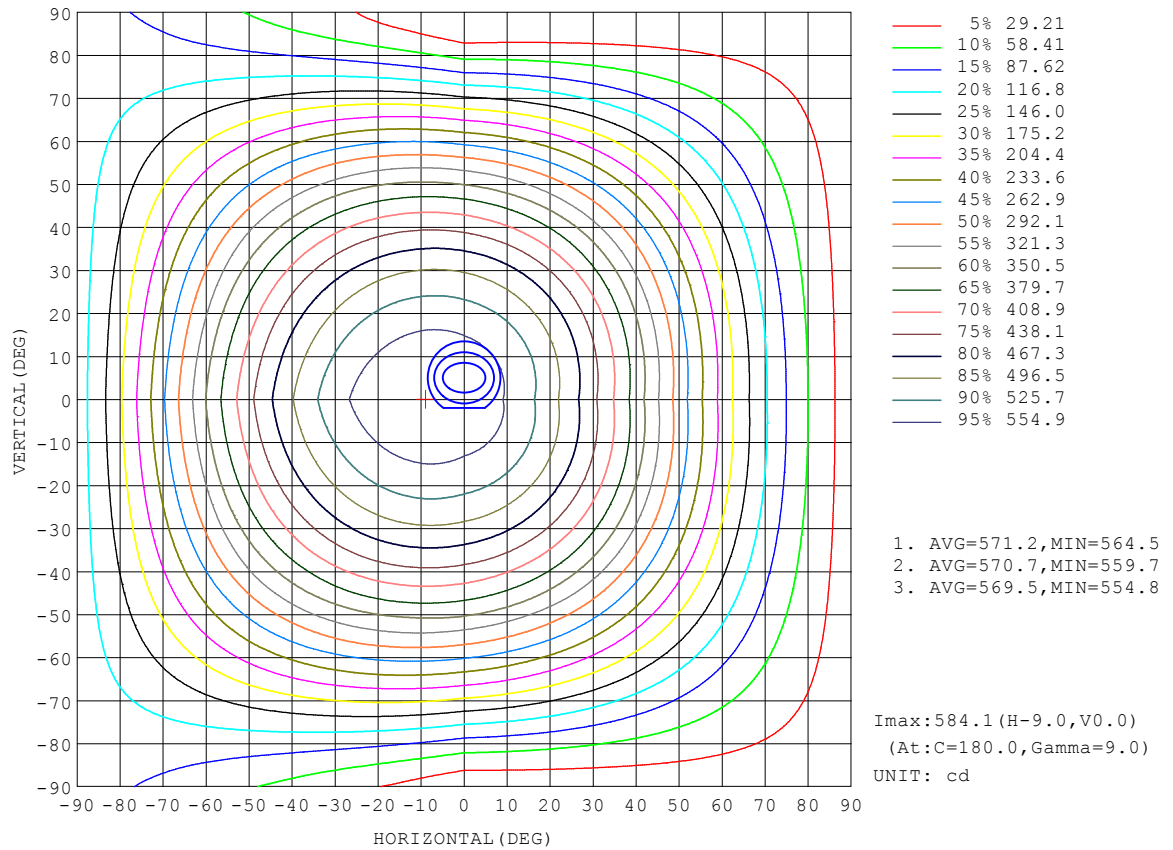
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	52	46	38
1.00	74	62	55	73	62	55	70	63	54	47
1.25	81	70	63	79	69	62	77	68	61	54
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	87	80	75	66
2.50	97	89	82	95	87	81	91	84	79	70
3.00	100	93	87	98	91	86	94	88	84	74
4.00	105	98	93	102	96	92	97	93	89	79
5.00	107	102	97	104	100	96	100	96	92	82
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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

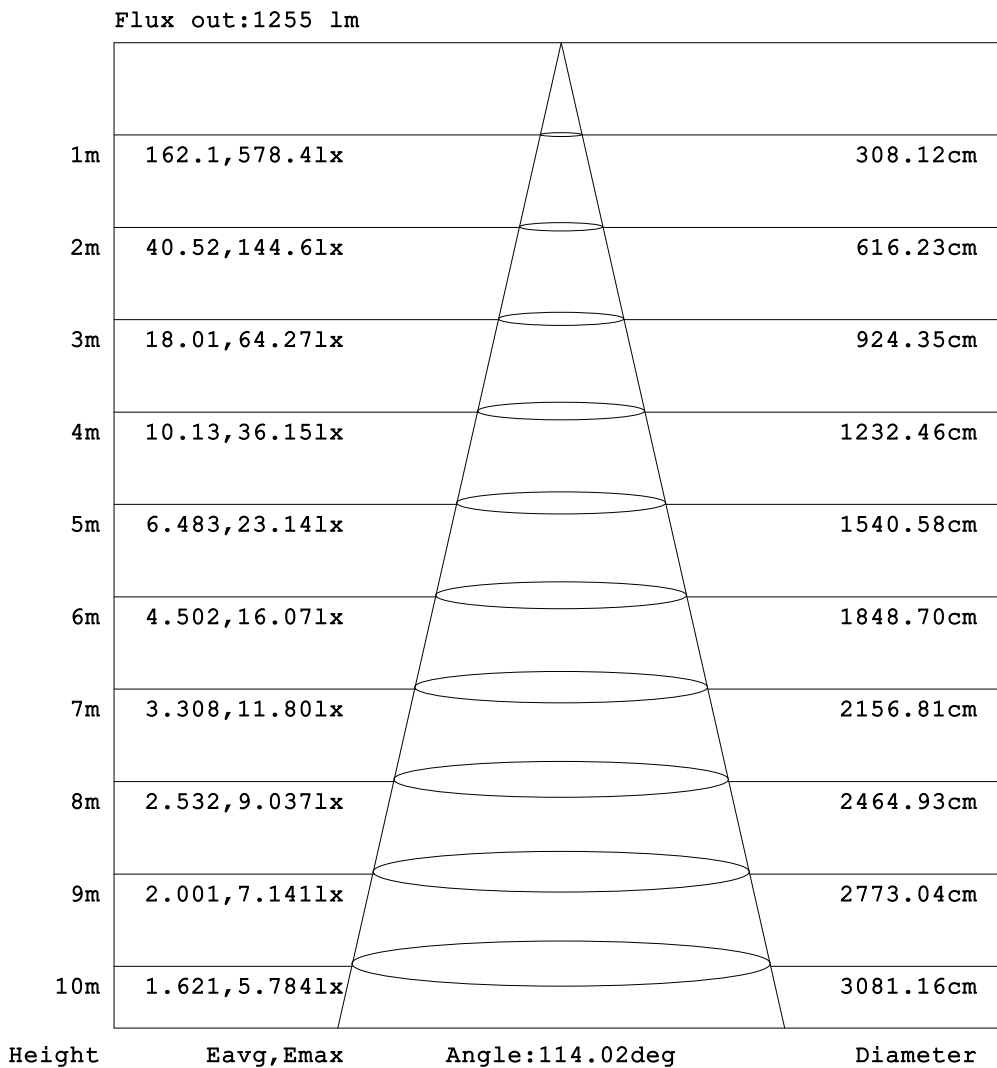


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-06

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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



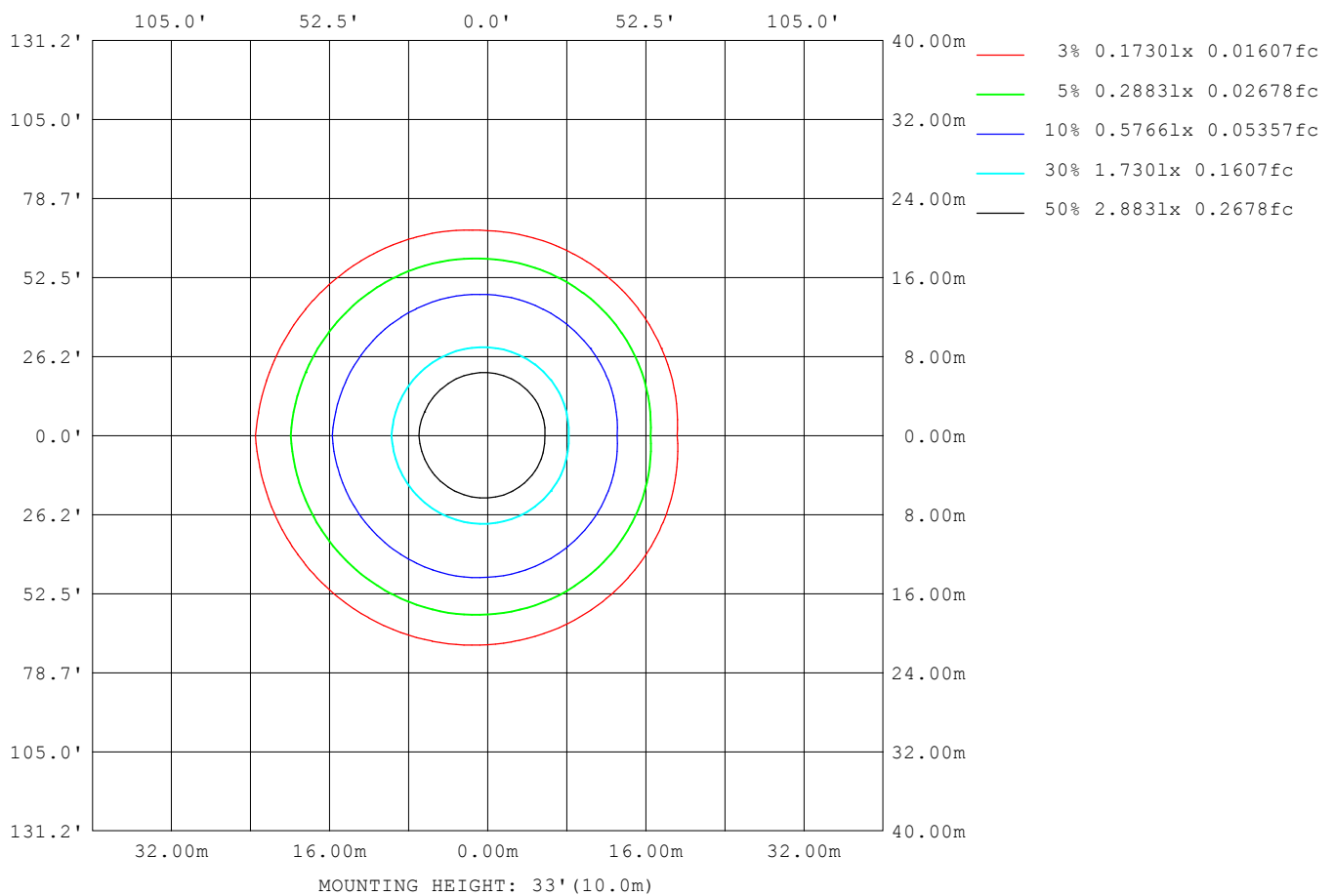
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K 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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

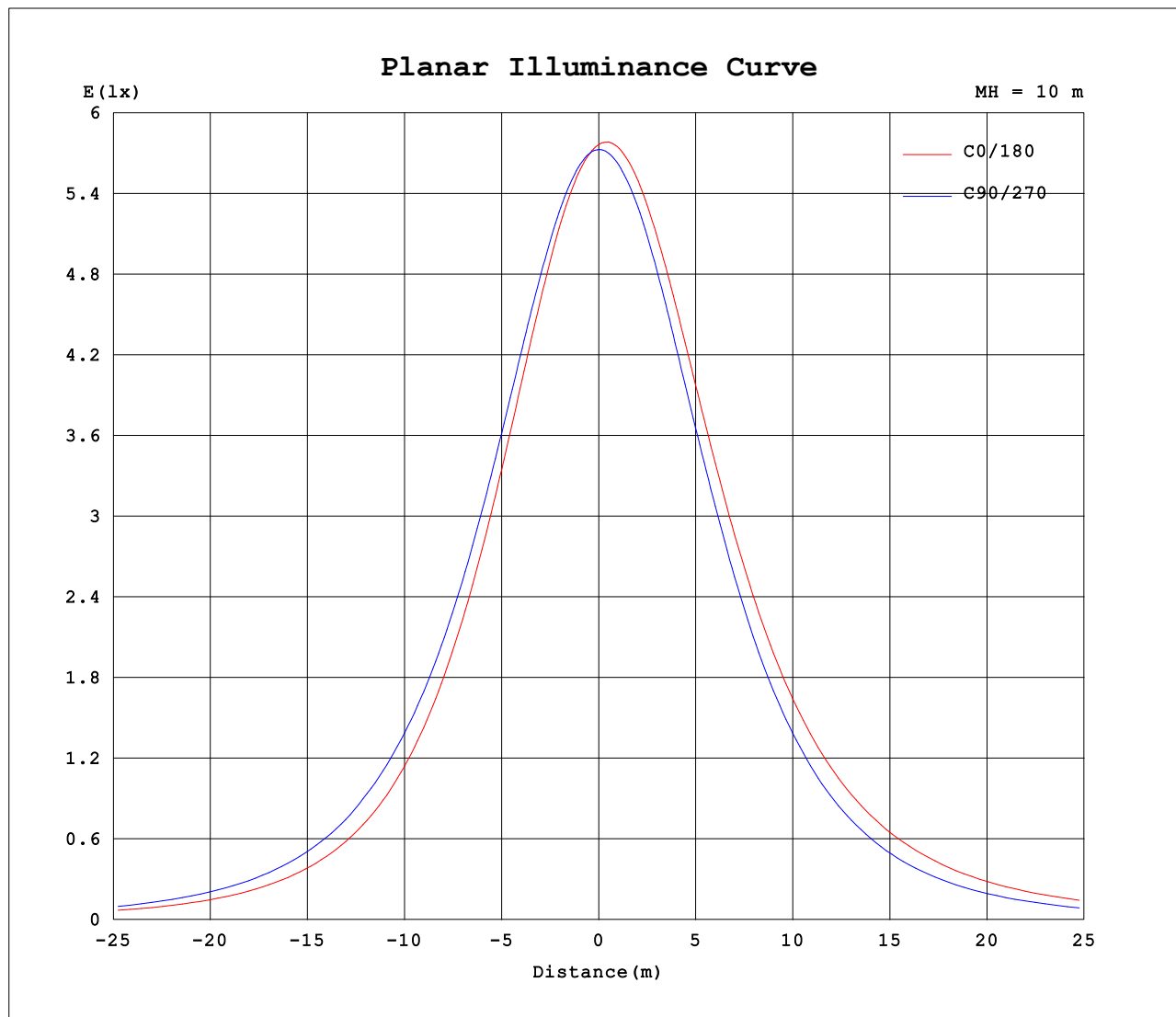
AvgL	cd/m2
L_0~180 (65) av	45404
L_0~180 (75) av	48551
L_0~180 (85) av	80587
L_90~270 (65) av	41528
L_90~270 (75) av	35202
L_90~270 (85) av	25591
L_45 (65) av	43900
L_45 (75) av	41491
L_45 (85) av	49196

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:1774.24x1 lm		
NAME: 7423 2835 240LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	576	573	576	573															
5	567	570	583	571															
10	552	562	584	565															
15	532	550	581	554															
20	507	534	573	538															
25	478	513	560	518															
30	444	488	543	494															
35	407	460	521	464															
40	366	428	495	429															
45	323	393	465	392															
50	279	354	430	349															
55	237	309	392	304															
60	196	265	351	255															
65	156	218	305	203															
70	120	170	259	149															
75	87.0	122	215	96.6															
80	58.4	76.3	172	50.2															
85	34.4	37.4	134	16.2															
90	16.6	9.49	101	1.24															
95	7.61	1.41	59.0	1.26															
100	4.58	1.58	19.9	1.44															
105	3.61	1.83	2.64	1.64															
110	3.46	2.11	2.07	1.90															
115	3.56	2.40	2.10	2.16															
120	3.64	2.69	2.01	2.39															
125	3.72	2.96	2.32	2.64															
130	3.75	3.23	2.49	2.89															
135	3.72	3.46	2.71	3.10															
140	3.64	3.67	2.93	3.32															
145	3.87	3.86	3.15	3.55															
150	3.98	4.04	3.40	3.72															
155	4.09	4.19	3.75	4.00															
160	4.24	4.34	3.99	4.17															
165	4.37	4.48	4.18	4.30															
170	4.47	4.55	4.35	4.46															
175	4.55	4.60	4.50	4.55															
180	4.55	4.60	4.55	4.62															

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: