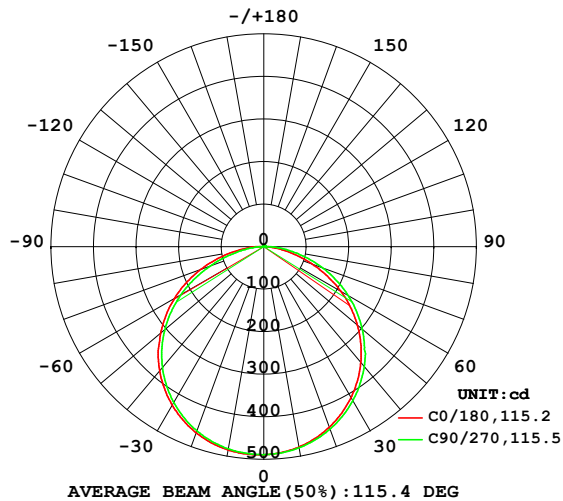


LUMINAIRE PHOTOMETRIC TEST REPORT

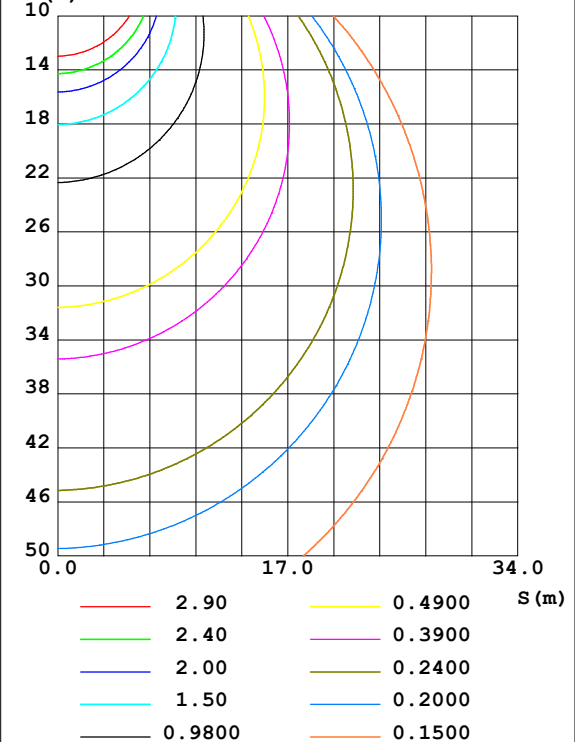
Test:U:24.000V I:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.05 lm/W			
MODEL		I _{max} (cd)	489.6	S/MH (C0/180)	1.31
NOMINAL POWER (W)	16	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	1462.4	η UP, DN (C0-180)	0.6, 48.3
NOMINAL FLUX (lm)	1462.41	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 50.6
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	478.0	480.0	485.0	482.5					0- 10	46.31	46.31	3.17,3.17
20	451.4	456.2	465.6	460.6					10- 20	133.2	179.5	12.3,12.3
30	410.1	418.5	430.3	423.0					20- 30	203.4	382.9	26.2,26.2
40	355.0	367.4	381.1	370.7					30- 40	247.9	630.8	43.1,43.1
50	287.4	302.3	316.3	303.8					40- 50	259.9	890.7	60.9,60.9
60	208.7	228.9	242.0	223.9					50- 60	237.1	1128	77.1,77.1
70	122.4	147.8	158.2	134.2					60- 70	181.7	1309	89.5,89.5
80	43.74	68.05	73.13	51.18					70- 80	104.1	1414	96.7,96.7
90	4.588	10.45	15.06	1.298					80- 90	32.06	1446	98.9,98.9
100	1.546	1.541	2.425	1.353					90-100	3.473	1449	99.1,99.1
110	1.802	1.956	1.654	1.722					100-110	1.788	1451	99.2,99.2
120	2.216	2.467	2.013	2.165					110-120	1.980	1453	99.3,99.3
130	2.649	2.916	2.445	2.580					120-130	2.188	1455	99.5,99.5
140	3.023	3.308	2.831	2.983					130-140	2.198	1457	99.6,99.6
150	3.353	3.609	3.195	3.296					140-150	2.005	1459	99.8,99.8
160	3.649	3.865	3.700	3.723					150-160	1.642	1461	99.9,99.9
170	3.905	4.047	3.956	3.939					160-170	1.092	1462	100,100
180	4.030	4.098	4.030	4.098					170-180	0.3831	1462	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 761.55 lm

%lum = 52.1%

%lamp = 52.1%

Conical surface Flux(120deg): 1127.8 lm

%lum = 77.1%

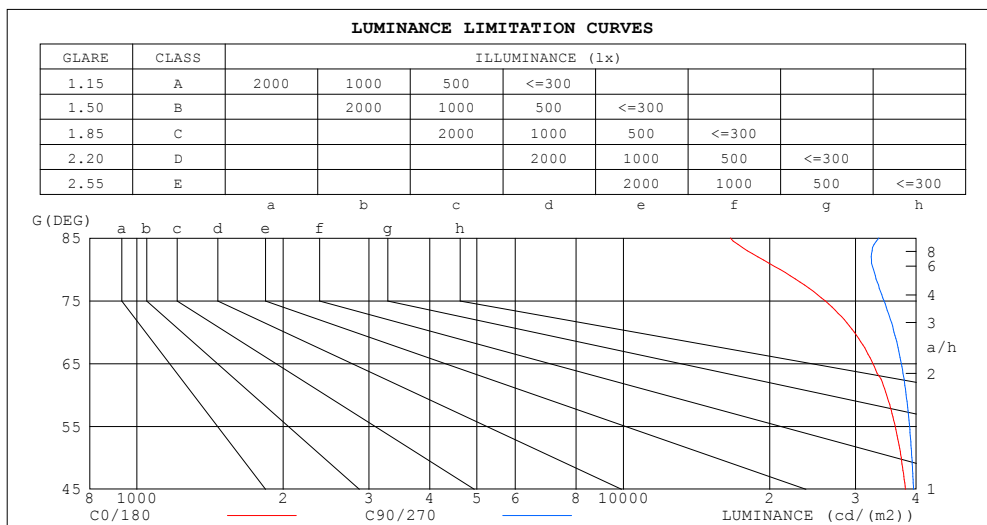
%lamp = 77.1%

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16595	33512
80	20993	32657
75	25991	34355
70	29823	36014
65	32595	37283
60	34778	38150
55	36215	38769
50	37265	39189
45	38036	39501

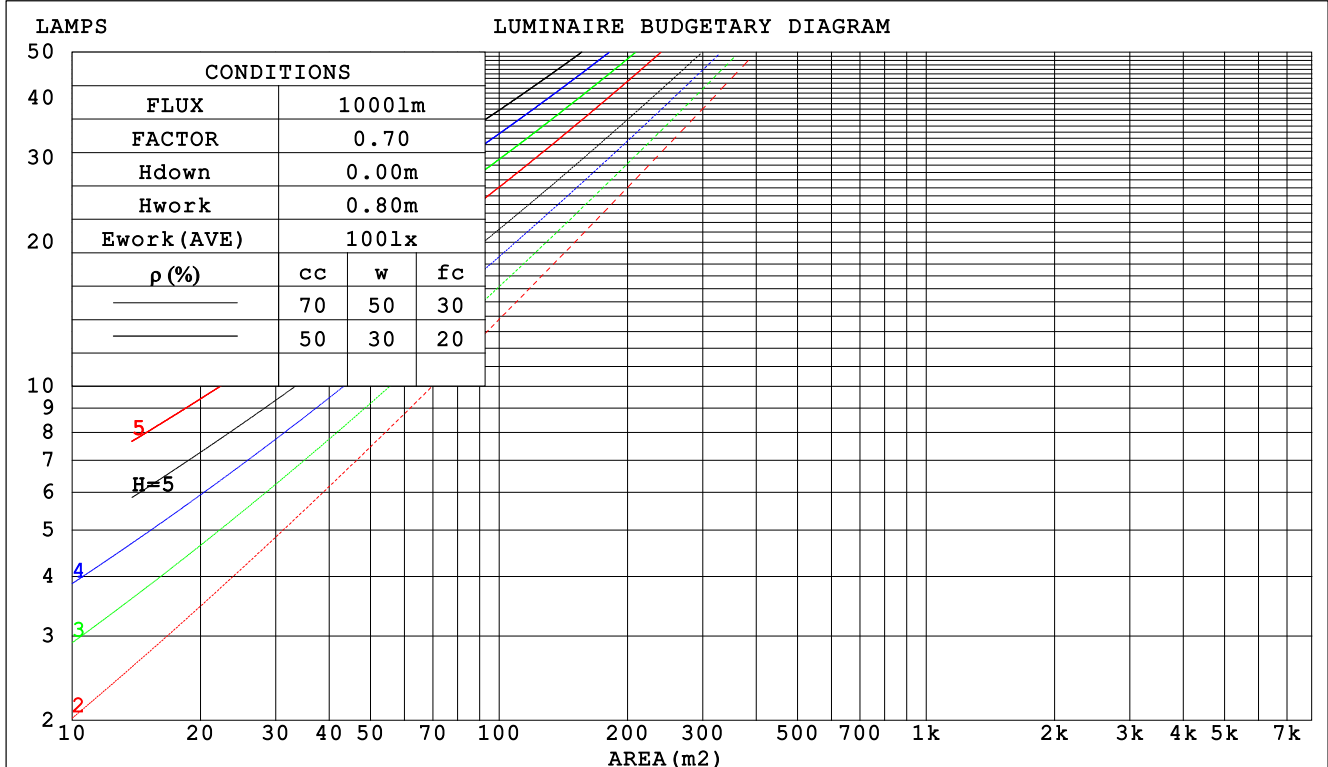
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 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	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.56	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



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

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 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	.315	.179	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.269	.156	.050		
2.0	.295	.162	.050	.288	.159	.049	.276	.154	.048	.265	.148	.046	.254	.144	.045		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040		
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.203	.108	.033		
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.187	.091	.026	.183	.090	.026	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.175	.085	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.079	.022	.162	.078	.022	.156	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.189	.165	.143	.162	.142	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.182	.141	.106	.155	.121	.092	.107	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.174	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.143	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.100	.056	.136	.086	.049	.094	.060	.034	.054	.035	.020	.018	.012	.007	
6.0	.152	.091	.048	.130	.079	.042	.090	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.084	.042	.125	.073	.037	.086	.051	.026	.050	.030	.015	.016	.010	.005	
8.0	.138	.079	.038	.119	.068	.033	.082	.048	.023	.048	.028	.014	.016	.009	.005	
9.0	.132	.074	.034	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.127	.069	.031	.109	.060	.027	.076	.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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm										
NAME: 7421 2835 168LED. 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	23.9	25.4	24.1	25.6	25.8	24.2	25.7	24.5	25.9	26.1
3H	25.3	26.7	25.6	26.9	27.2	25.8	27.2	26.1	27.4	27.7
4H	25.7	27.1	26.1	27.4	27.6	26.5	27.8	26.8	28.1	28.3
6H	26.0	27.3	26.4	27.6	27.9	27.0	28.2	27.3	28.5	28.8
8H	26.1	27.3	26.5	27.6	28.0	27.2	28.4	27.5	28.7	29.0
12H	26.1	27.3	26.5	27.6	28.0	27.3	28.5	27.7	28.8	29.1
4H 2H	24.5	25.8	24.8	26.1	26.4	24.7	26.1	25.1	26.4	26.6
3H	26.1	27.2	26.4	27.6	27.9	26.5	27.7	26.9	28.0	28.3
4H	26.7	27.8	27.1	28.1	28.5	27.3	28.4	27.7	28.7	29.1
6H	27.1	28.1	27.5	28.4	28.8	28.0	28.9	28.4	29.3	29.7
8H	27.2	28.1	27.7	28.5	28.9	28.2	29.1	28.6	29.5	29.9
12H	27.3	28.1	27.7	28.5	28.9	28.4	29.2	28.9	29.6	30.1
8H 4H	27.0	27.9	27.4	28.3	28.7	27.5	28.4	28.0	28.8	29.2
6H	27.5	28.3	28.0	28.7	29.2	28.3	29.1	28.8	29.5	29.9
8H	27.7	28.4	28.2	28.8	29.3	28.7	29.3	29.2	29.8	30.3
12H	27.9	28.4	28.4	28.9	29.4	29.0	29.5	29.5	30.0	30.5
12H 4H	27.0	27.8	27.4	28.2	28.7	27.5	28.4	28.0	28.8	29.2
6H	27.6	28.3	28.1	28.7	29.2	28.4	29.0	28.9	29.5	29.9
8H	27.8	28.4	28.3	28.9	29.4	28.8	29.3	29.3	29.8	30.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1462 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.3$)
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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

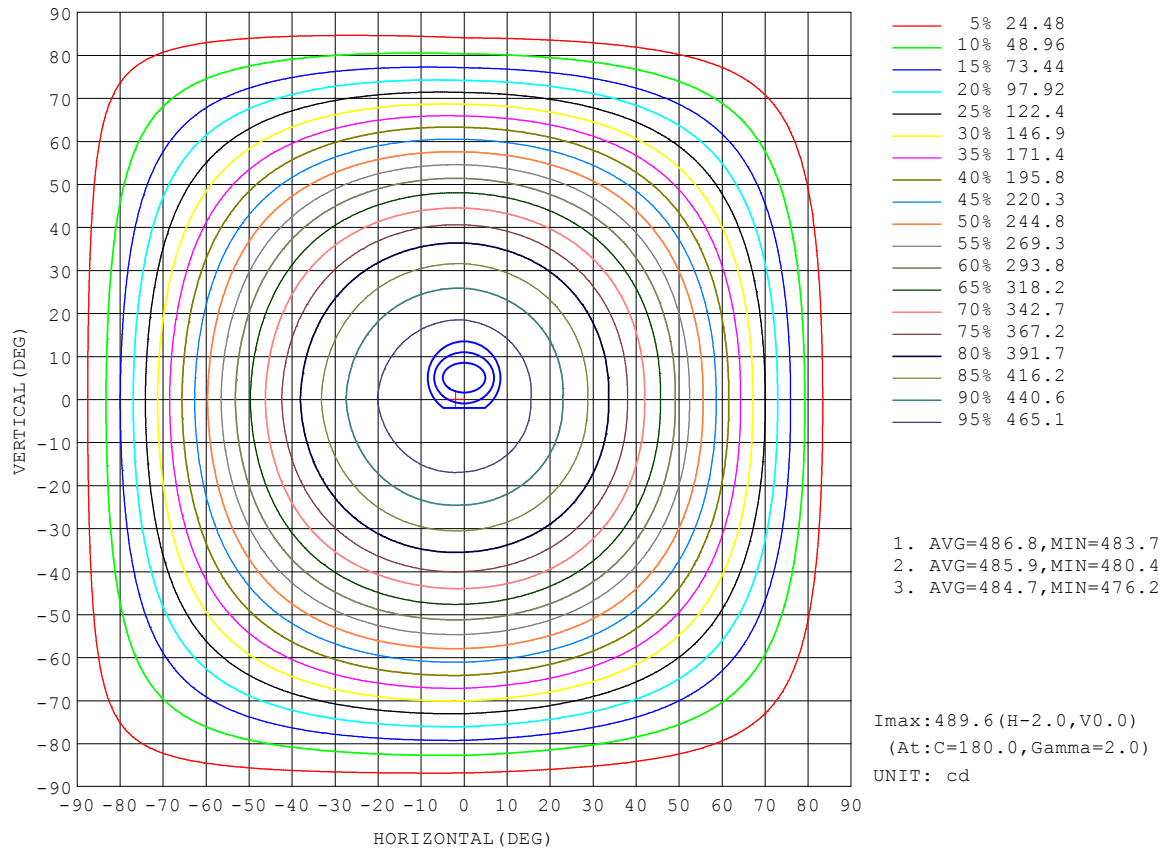
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	65	55	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	70	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	81
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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

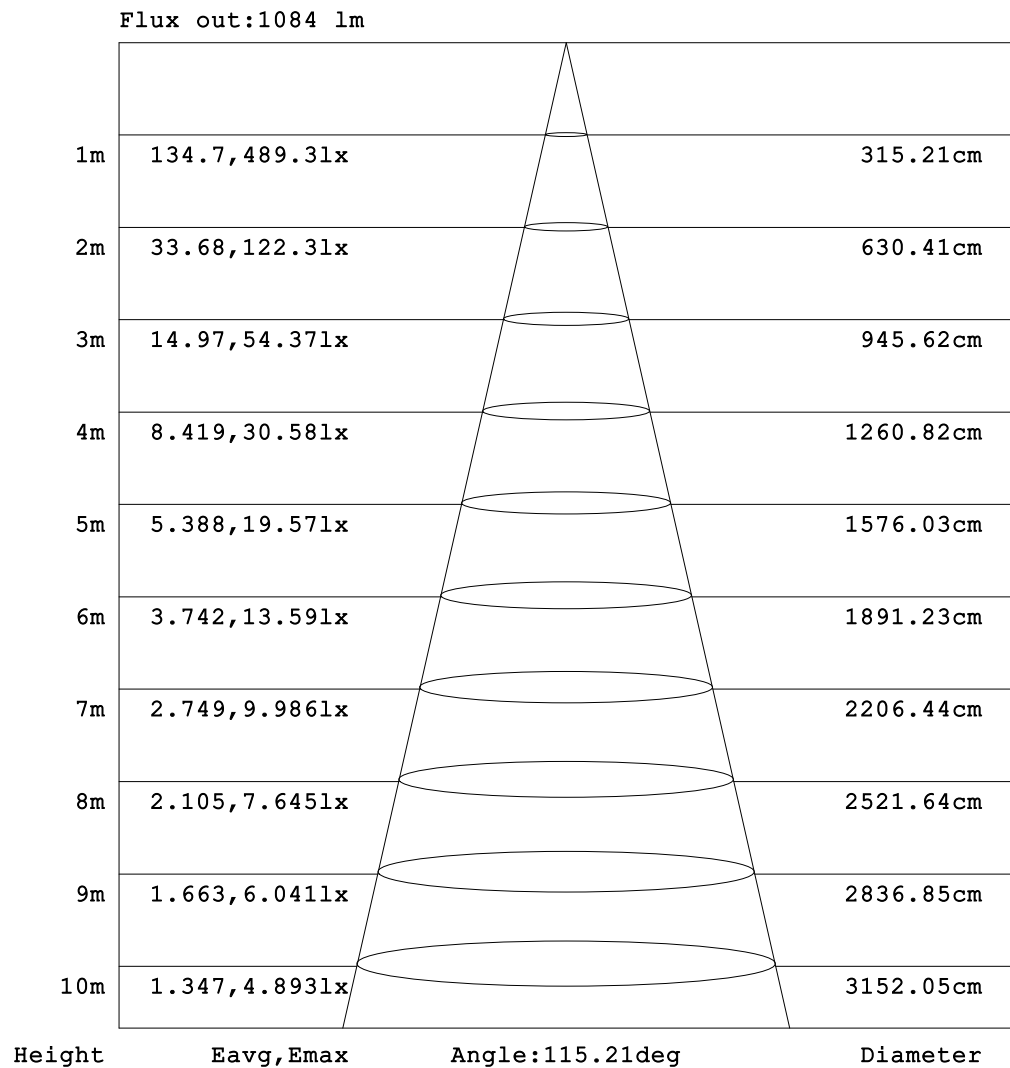


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-04

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



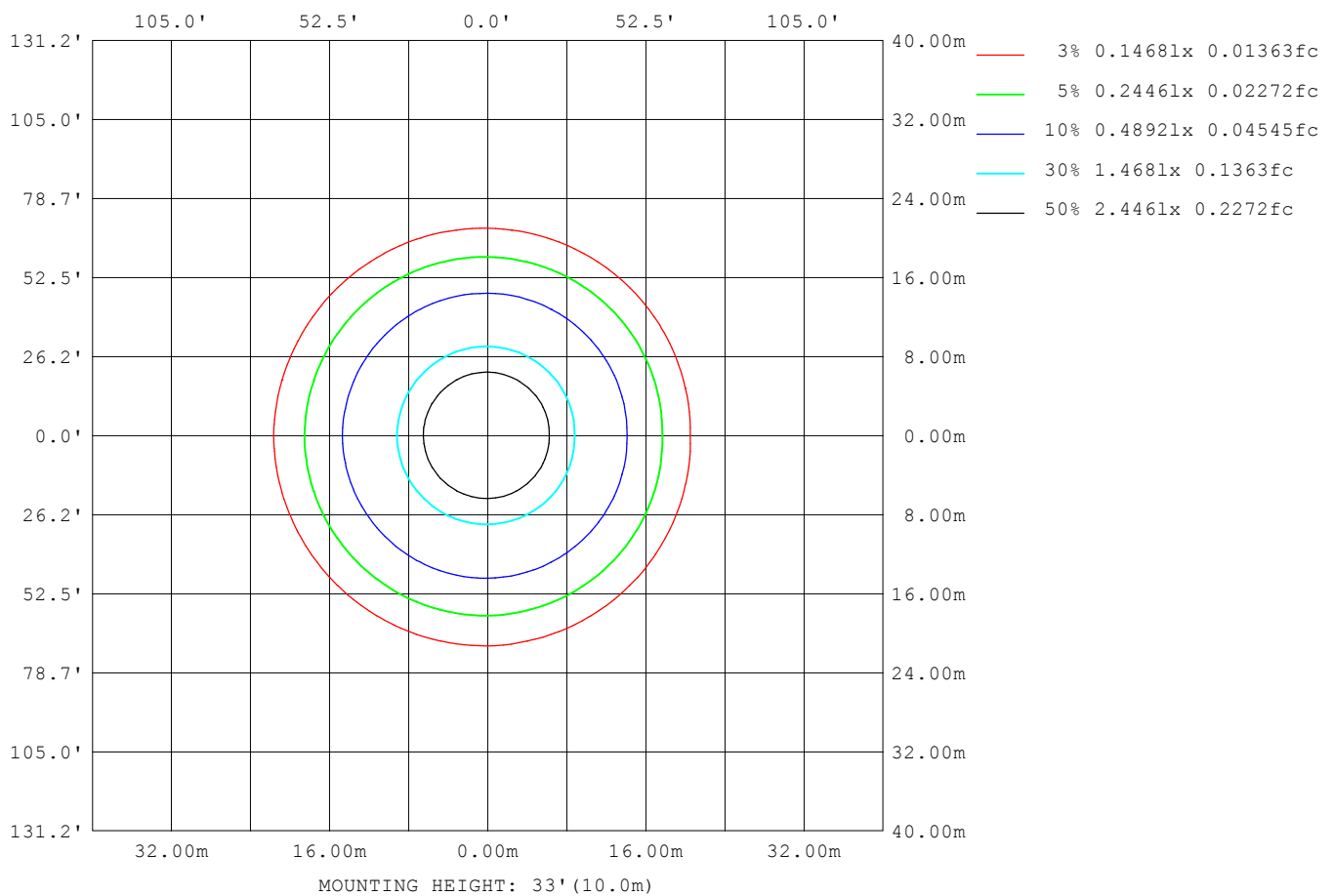
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 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: 2026-05-04

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

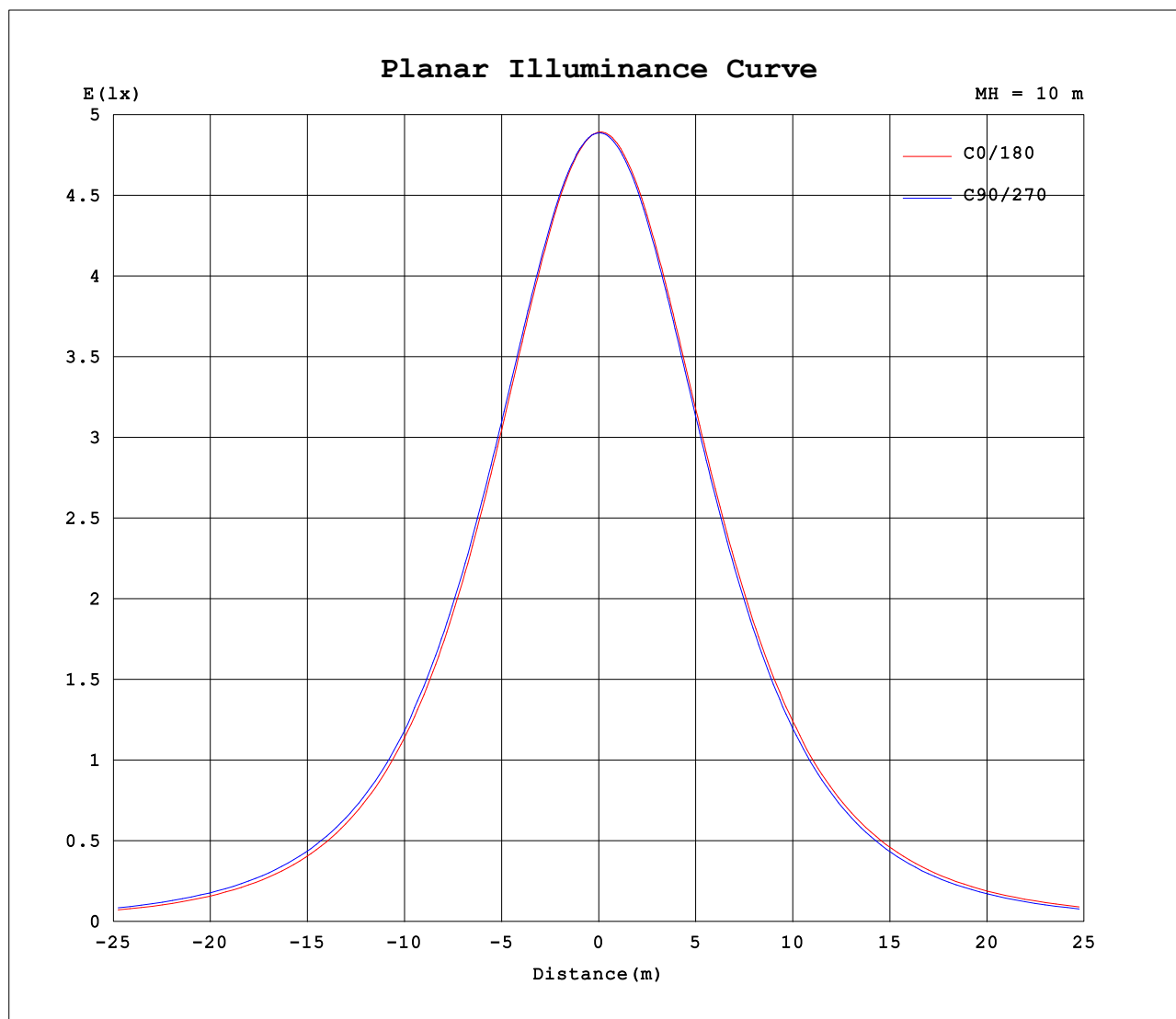
AvgL	cd/m2
L_0~180 (65) av	36119
L_0~180 (75) av	31475
L_0~180 (85) av	26407
L_90~270 (65) av	36315
L_90~270 (75) av	31735
L_90~270 (85) av	26251
L_45 (65) av	36462
L_45 (75) av	31980
L_45 (85) av	26923

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:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1462.41x1 lm		
NAME: 7421 2835 168LED. 4000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	489	489	489	489															
5	485	486	489	487															
10	478	480	485	482															
15	467	470	477	474															
20	451	456	466	461															
25	432	439	450	444															
30	410	419	430	423															
35	384	394	407	399															
40	355	367	381	371															
45	323	335	352	339															
50	287	302	316	304															
55	249	267	281	265															
60	209	229	242	224															
65	165	189	201	179															
70	122	148	158	134															
75	80.7	107	115	90.4															
80	43.7	68.1	73.1	51.2															
85	17.4	35.0	37.9	19.9															
90	4.59	10.5	15.1	1.30															
95	1.60	1.39	5.01	1.19															
100	1.55	1.54	2.43	1.35															
105	1.64	1.73	1.73	1.55															
110	1.80	1.96	1.65	1.72															
115	2.01	2.21	1.81	1.93															
120	2.22	2.47	2.01	2.17															
125	2.45	2.71	2.24	2.39															
130	2.65	2.92	2.44	2.58															
135	2.84	3.11	2.64	2.78															
140	3.02	3.31	2.83	2.98															
145	3.19	3.46	3.01	3.12															
150	3.35	3.61	3.20	3.30															
155	3.51	3.72	3.52	3.58															
160	3.65	3.87	3.70	3.72															
165	3.81	3.98	3.83	3.84															
170	3.90	4.05	3.96	3.94															
175	4.00	4.09	4.01	4.06															
180	4.03	4.10	4.03	4.10															

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: