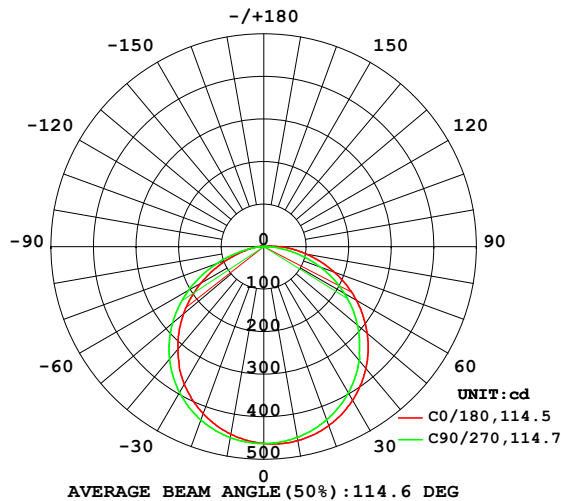


LUMINAIRE PHOTOMETRIC TEST REPORT

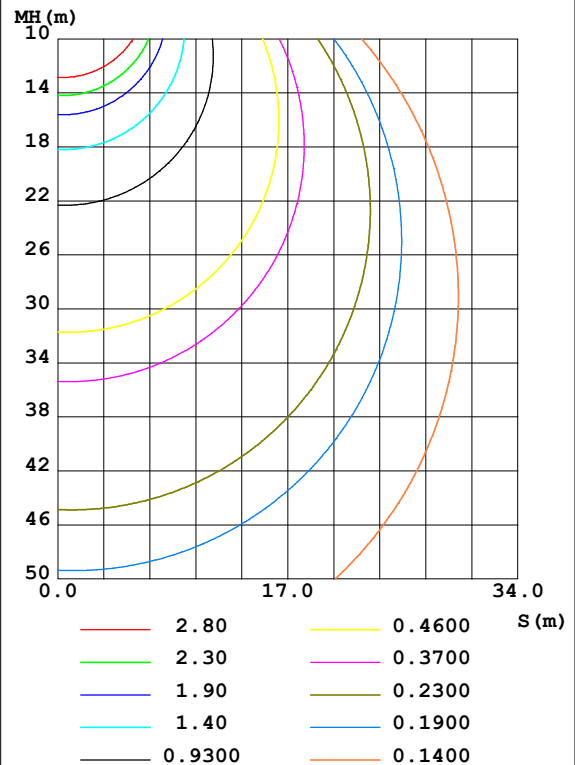
Test:U:24.000V I:0.7000A P:16.800W PF:1.0000 Freq:0Hz Lamp Flux:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.68 lm/W			
MODEL		I _{max} (cd)	464.7	S/MH(C0/180)	1.21
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1388.9	η UP,DN(C0-180)	0.9,53.5
NOMINAL FLUX(lm)	1388.95	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,44.9
LAMPS INSIDE	1	η up(%)	1.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.4	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	462.7	455.2	447.6	455.7					0- 10	43.82	43.82	3.15,3.15
20	447.5	433.0	417.7	433.5					10- 20	125.9	169.7	12.2,12.2
30	417.4	397.3	373.5	396.2					20- 30	191.8	361.6	26,26
40	373.6	349.6	314.5	344.8					30- 40	233.0	594.5	42.8,42.8
50	317.4	287.7	246.5	280.1					40- 50	243.2	837.7	60.3,60.3
60	251.0	218.6	169.8	203.7					50- 60	221.4	1059	76.3,76.3
70	176.6	141.8	92.90	118.3					60- 70	170.0	1229	88.5,88.5
80	101.4	64.27	34.96	39.86					70- 80	100.3	1329	95.7,95.7
90	37.53	8.385	12.71	1.296					80- 90	37.31	1367	98.4,98.4
100	6.356	1.398	5.849	1.250					90-100	8.477	1375	99,99
110	1.831	1.797	2.756	1.626					100-110	2.785	1378	99.2,99.2
120	1.824	2.269	2.257	2.051					110-120	1.953	1380	99.4,99.4
130	2.256	2.706	2.637	2.438					120-130	2.065	1382	99.5,99.5
140	2.637	3.053	2.956	2.791					130-140	2.076	1384	99.7,99.7
150	2.984	3.354	3.246	3.086					140-150	1.892	1386	99.8,99.8
160	3.352	3.615	3.666	3.535					150-160	1.553	1388	99.9,99.9
170	3.643	3.802	3.842	3.723					160-170	1.033	1389	100,100
180	3.831	3.831	3.854	3.831					170-180	0.3614	1389	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 716.85 lm

%lum = 51.6%

%lamp = 51.6%

Conical surface Flux(120deg): 1059.2 lm

%lum = 76.3%

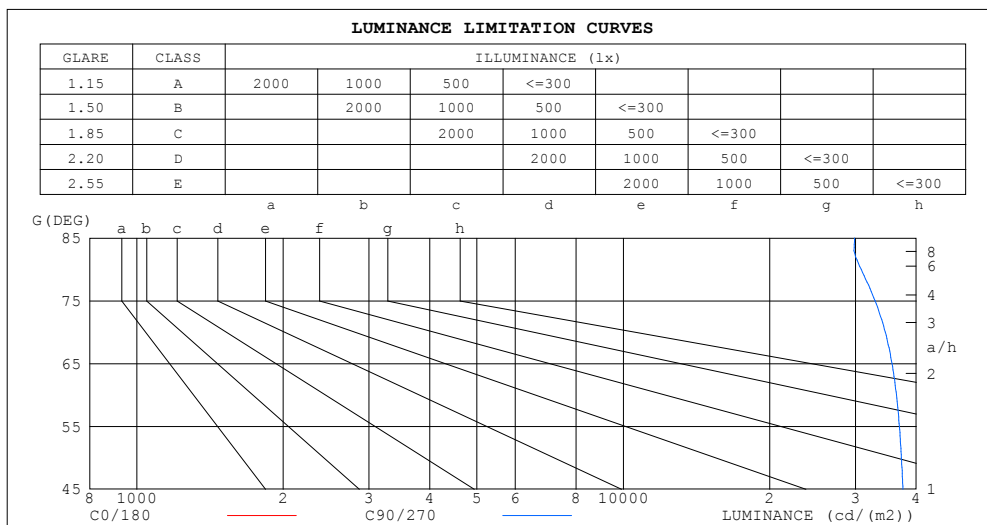
%lamp = 76.3%

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:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	63655	29892
80	48658	30844
75	44672	32908
70	43021	34555
65	42420	35678
60	41836	36433
55	41457	36945
50	41147	37302
45	40887	37555

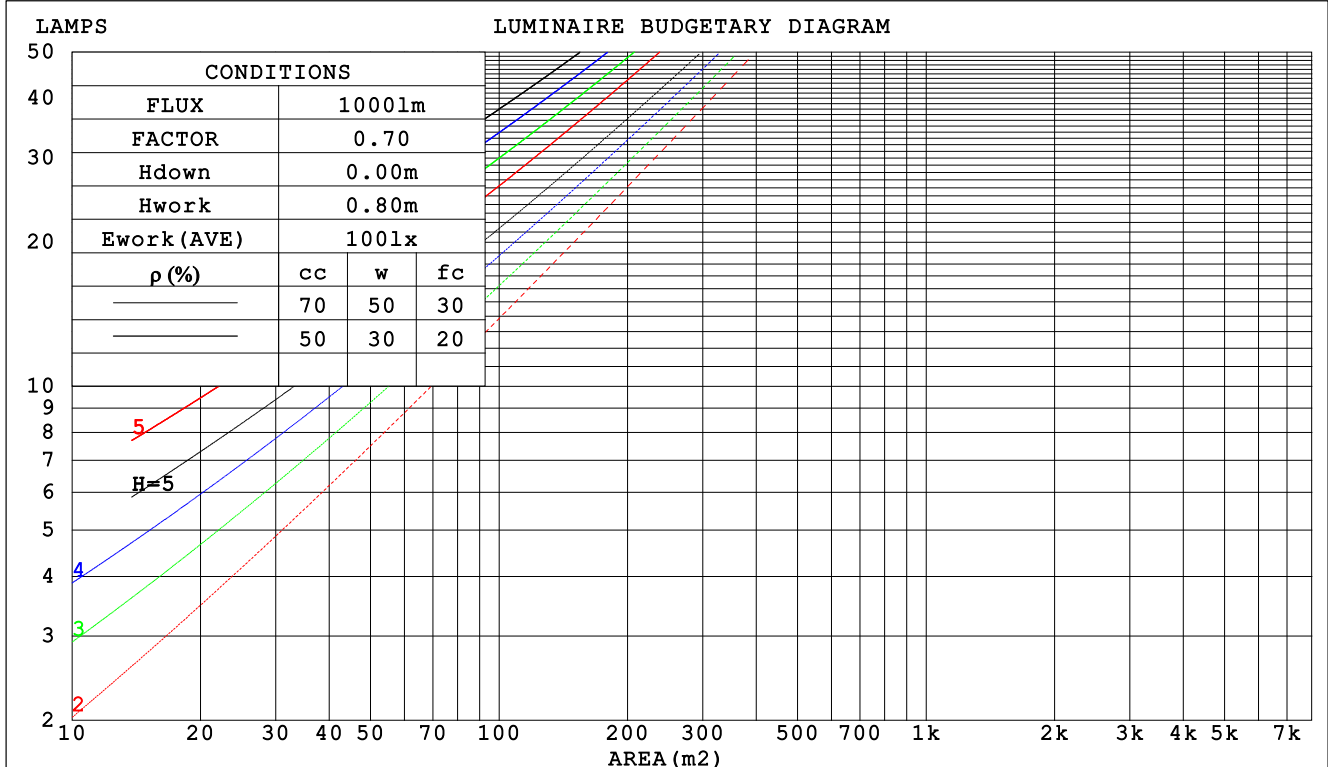
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ 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:1388.95x1 lm		
NAME: 7420 2835 168LED. 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	1.01	1.01	1.01	.98
1.0	1.03	.99	.95	1.01	.96	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.81
2.0	.89	.82	.77	.87	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.67
3.0	.78	.70	.63	.77	.69	.63	.73	.67	.61	.70	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.54	.68	.60	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.44	.54	.48	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.42	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26
10.0	.39	.31	.26	.38	.31	.25	.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:1388.95x1 lm									
NAME: 7420 2835 168LED. 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	.320	.182	.058	.312	.178	.057	.298	.171	.055	.285	.164	.053	.273	.158	.051	
2.0	.297	.163	.050	.291	.160	.049	.278	.155	.048	.266	.149	.047	.256	.145	.046	
3.0	.274	.146	.044	.268	.143	.043	.257	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.252	.131	.038	.247	.129	.038	.237	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.107	.031	.203	.104	.030	.196	.102	.030	.189	.099	.029	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.182	.094	.027	.176	.092	.027	
8.0	.187	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.165	.085	.025	
9.0	.175	.085	.024	.172	.084	.023	.166	.082	.023	.161	.080	.023	.155	.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	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022		
1.0	.193	.168	.146	.165	.144	.126	.113	.099	.087	.065	.058	.050	.021	.019	.016		
2.0	.185	.144	.110	.159	.124	.095	.109	.086	.066	.063	.050	.039	.020	.016	.013		
3.0	.178	.127	.086	.152	.109	.075	.105	.076	.052	.060	.044	.031	.019	.014	.010		
4.0	.170	.114	.070	.146	.098	.061	.100	.068	.043	.058	.040	.025	.019	.013	.008		
5.0	.163	.103	.059	.140	.089	.052	.096	.062	.036	.056	.037	.022	.018	.012	.007		
6.0	.155	.095	.051	.133	.082	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006		
7.0	.148	.088	.046	.128	.076	.040	.088	.053	.028	.051	.032	.017	.017	.010	.006		
8.0	.142	.082	.041	.122	.071	.036	.085	.050	.025	.049	.030	.015	.016	.010	.005		
9.0	.136	.077	.038	.117	.067	.033	.081	.047	.023	.047	.028	.014	.015	.009	.005		
10.0	.130	.073	.035	.112	.063	.031	.078	.045	.022	.045	.026	.013	.015	.009	.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:1388.95x1 lm										
NAME: 7420 2835 168LED. 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	25.0	26.5	25.3	26.7	27.0	24.5	26.0	24.8	26.2	26.5
3H	26.9	28.3	27.2	28.5	28.8	26.1	27.5	26.4	27.8	28.1
4H	27.7	29.1	28.1	29.4	29.6	26.8	28.1	27.1	28.4	28.7
6H	28.5	29.8	28.9	30.1	30.4	27.3	28.6	27.7	28.9	29.2
8H	28.9	30.1	29.3	30.4	30.8	27.5	28.7	27.9	29.0	29.3
12H	29.3	30.4	29.7	30.8	31.1	27.6	28.8	28.0	29.1	29.5
4H 2H	25.6	26.9	25.9	27.2	27.5	25.2	26.6	25.6	26.8	27.1
3H	27.7	28.8	28.1	29.2	29.5	27.1	28.2	27.4	28.6	28.9
4H	28.7	29.8	29.1	30.1	30.5	27.9	28.9	28.3	29.3	29.7
6H	29.7	30.6	30.1	31.0	31.4	28.5	29.5	29.0	29.9	30.3
8H	30.1	31.0	30.6	31.4	31.8	28.8	29.7	29.2	30.1	30.5
12H	30.6	31.4	31.0	31.8	32.2	29.0	29.8	29.4	30.2	30.6
8H 4H	29.0	29.9	29.4	30.3	30.7	28.3	29.2	28.7	29.6	30.0
6H	30.2	30.9	30.6	31.3	31.8	29.2	29.9	29.6	30.3	30.8
8H	30.7	31.4	31.2	31.9	32.3	29.5	30.2	30.0	30.6	31.1
12H	31.4	31.9	31.9	32.4	32.9	29.8	30.4	30.3	30.9	31.4
12H 4H	29.0	29.8	29.5	30.3	30.7	28.4	29.2	28.8	29.6	30.0
6H	30.2	30.9	30.7	31.4	31.8	29.3	30.0	29.8	30.4	30.9
8H	30.9	31.5	31.4	31.9	32.5	29.7	30.3	30.2	30.8	31.3
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, 1389 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.1$)
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:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

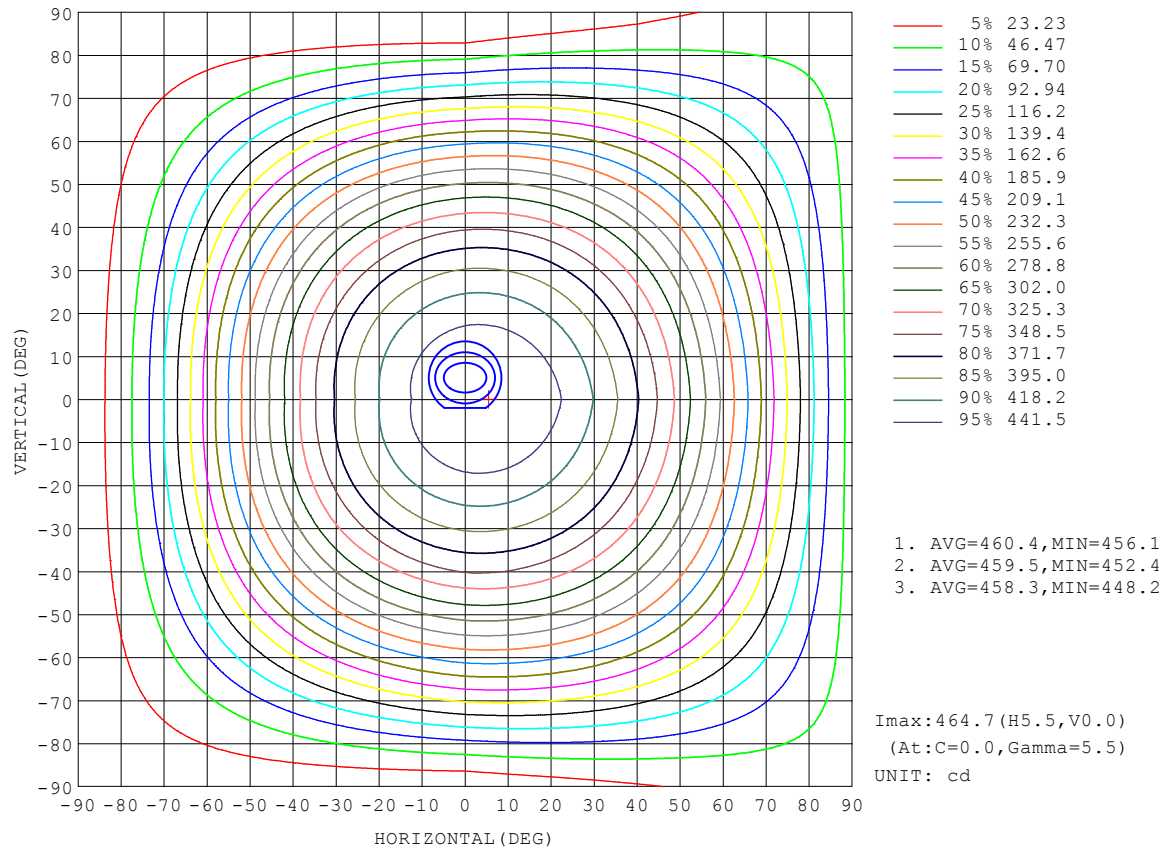
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	54	44	37	31
0.80	66	55	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	48
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	68
2.50	98	90	83	96	88	82	92	85	80	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	103	98	105	101	97	100	97	93	84
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:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

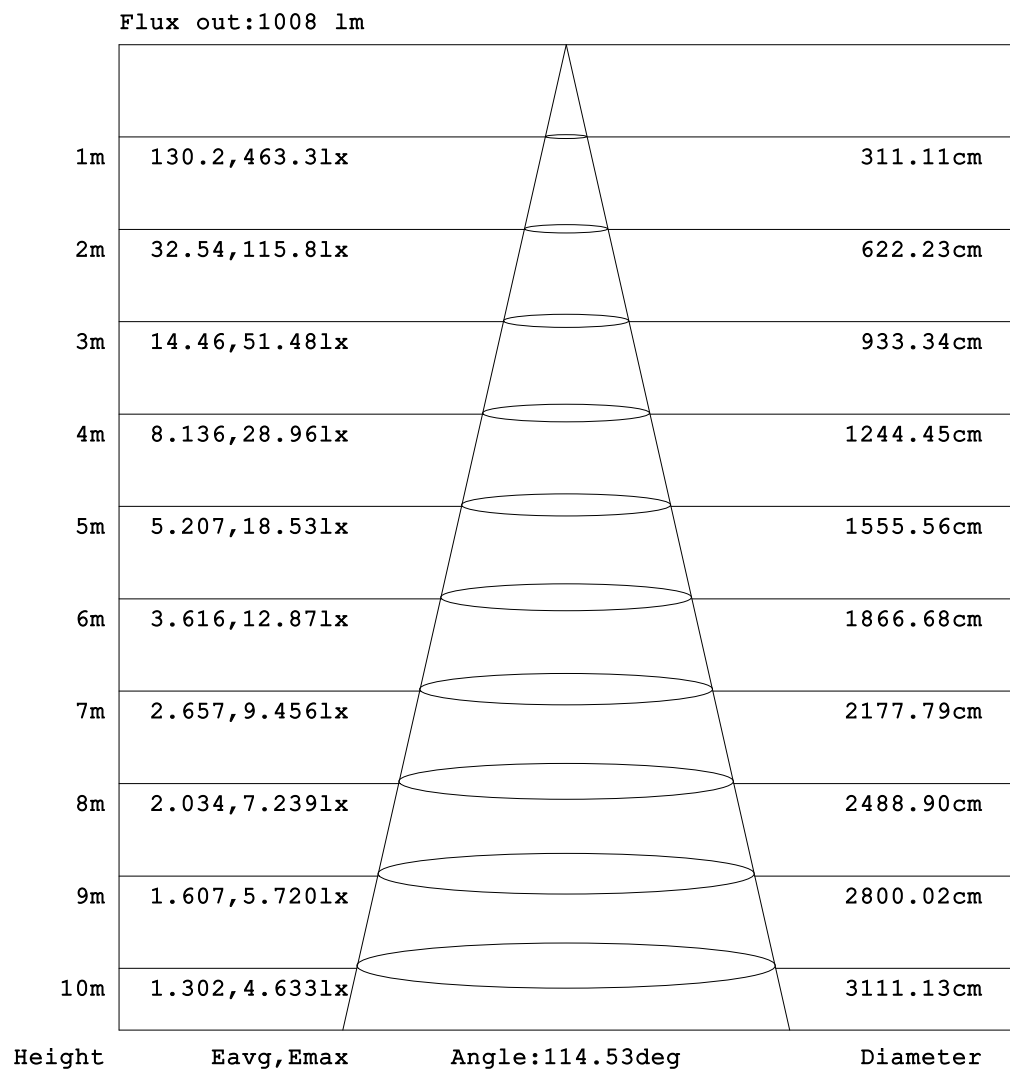


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yuan
Test Date: 2026-05-04

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:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



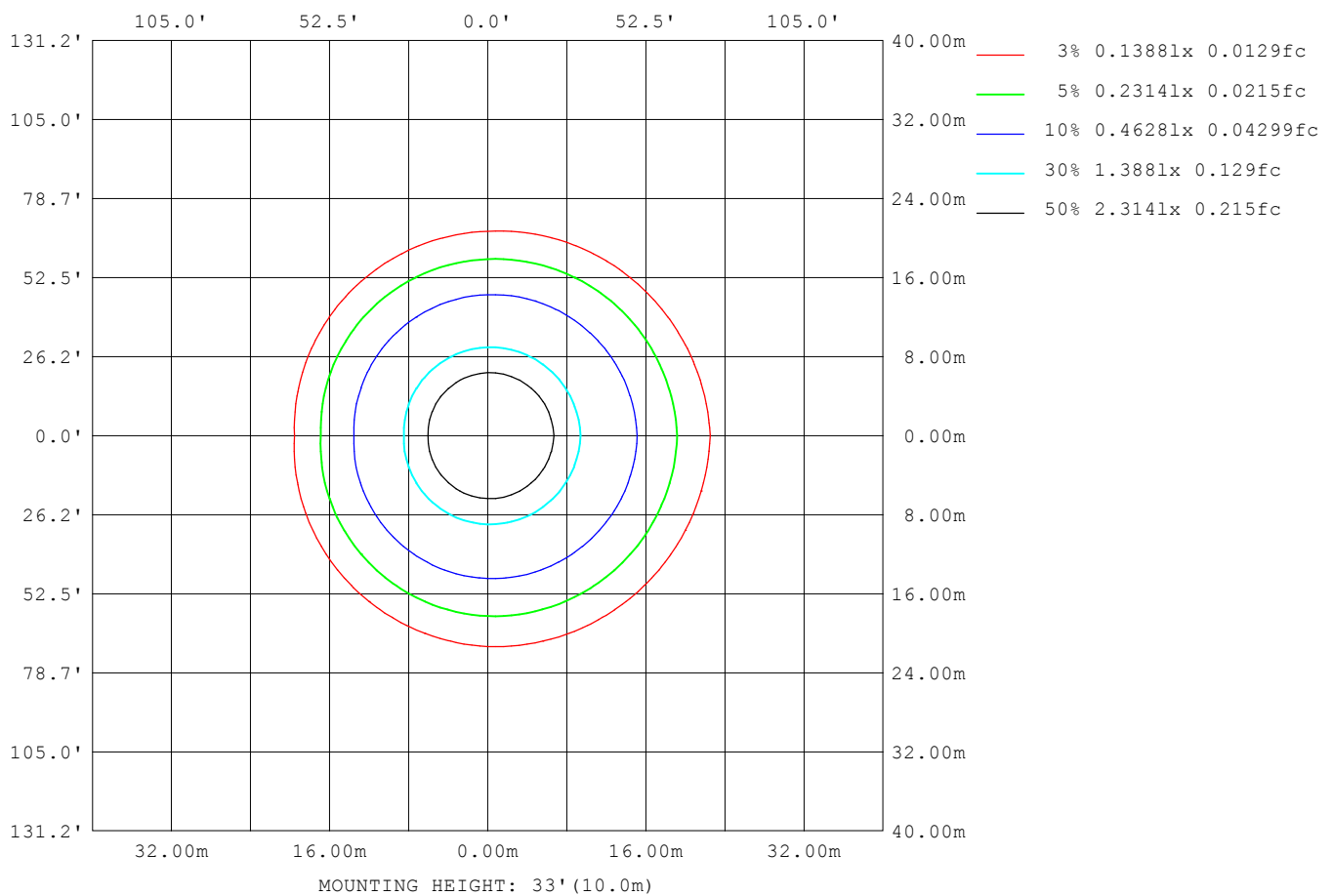
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:1388.95x1 lm		
NAME: 7420 2835 168LED. 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: 2026-05-04

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:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

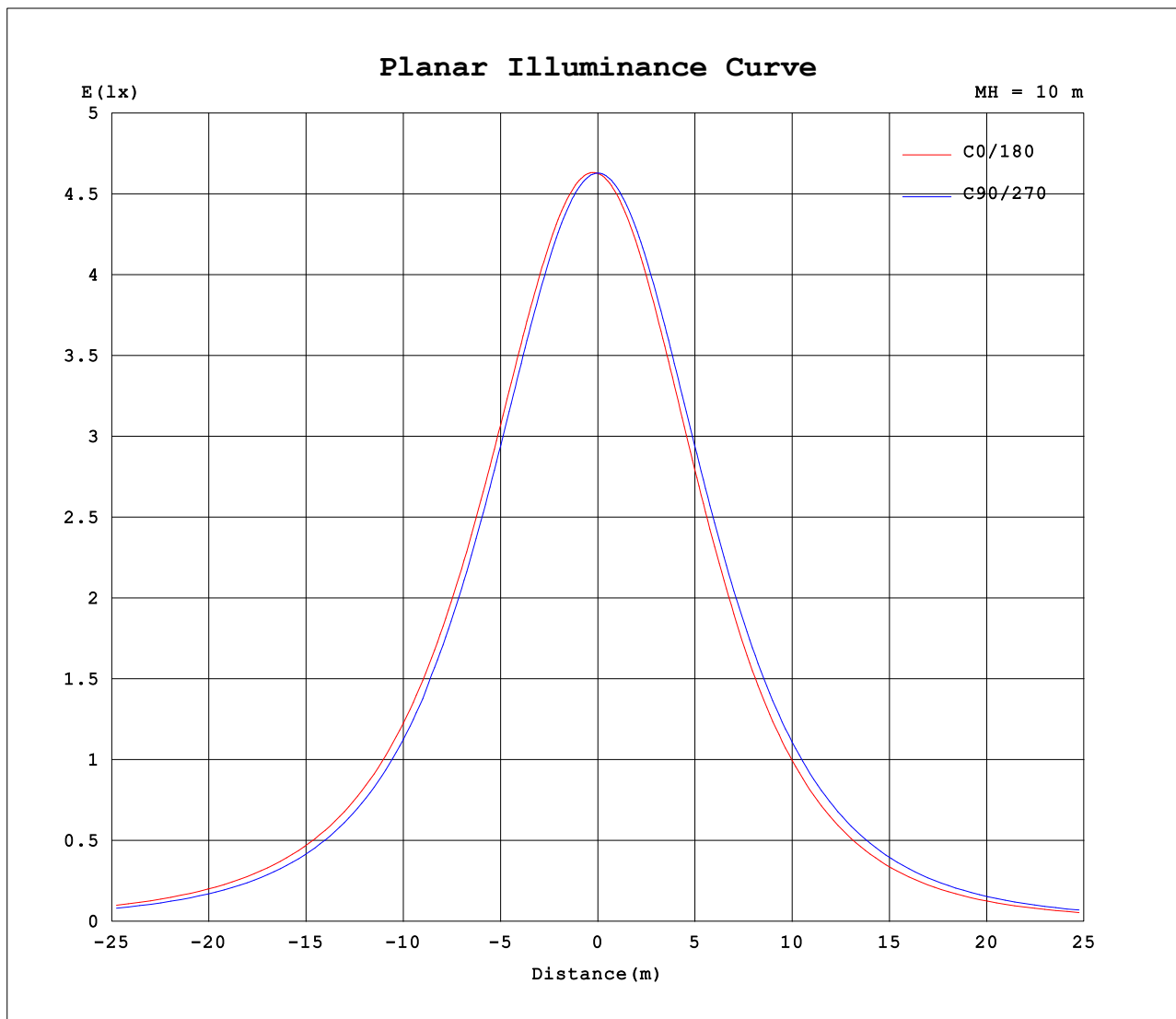
AvgL	cd/m2
L_0~180 (65) av	34066
L_0~180 (75) av	31975
L_0~180 (85) av	41581
L_90~270 (65) av	33710
L_90~270 (75) av	28828
L_90~270 (85) av	21060
L_45 (65) av	33321
L_45 (75) av	29214
L_45 (85) av	27376

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:1388.95x1 lm		
NAME: 7420 2835 168LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	463	463	463	463															
5	465	461	457	461															
10	463	455	448	456															
15	457	446	434	446															
20	447	433	418	433															
25	434	417	397	417															
30	417	397	374	396															
35	397	375	346	372															
40	374	350	315	345															
45	347	319	282	314															
50	317	288	246	280															
55	285	254	209	243															
60	251	219	170	204															
65	215	181	130	161															
70	177	142	92.9	118															
75	139	102	59.9	76.9															
80	101	64.3	35.0	39.9															
85	66.6	31.3	20.4	12.8															
90	37.5	8.38	12.7	1.30															
95	17.4	1.26	8.46	1.13															
100	6.36	1.40	5.85	1.25															
105	3.02	1.58	4.02	1.43															
110	1.83	1.80	2.76	1.63															
115	1.63	2.02	2.23	1.84															
120	1.82	2.27	2.26	2.05															
125	2.03	2.50	2.44	2.26															
130	2.26	2.71	2.64	2.44															
135	2.45	2.88	2.80	2.63															
140	2.64	3.05	2.96	2.79															
145	2.81	3.22	3.10	2.93															
150	2.98	3.35	3.25	3.09															
155	3.18	3.47	3.54	3.36															
160	3.35	3.61	3.67	3.54															
165	3.49	3.74	3.77	3.62															
170	3.64	3.80	3.84	3.72															
175	3.72	3.84	3.85	3.81															
180	3.83	3.83	3.85	3.83															

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: