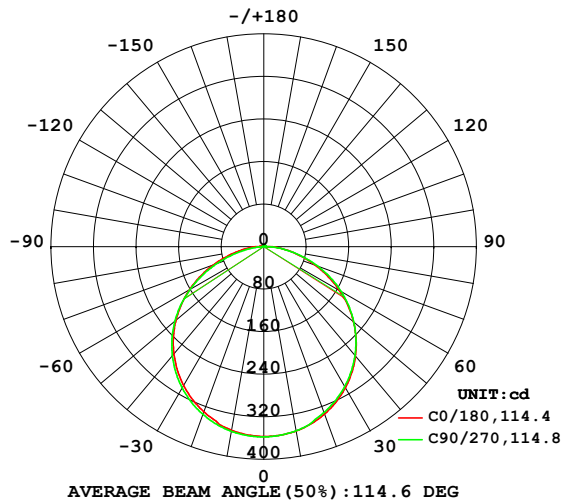


LUMINAIRE PHOTOMETRIC TEST REPORT

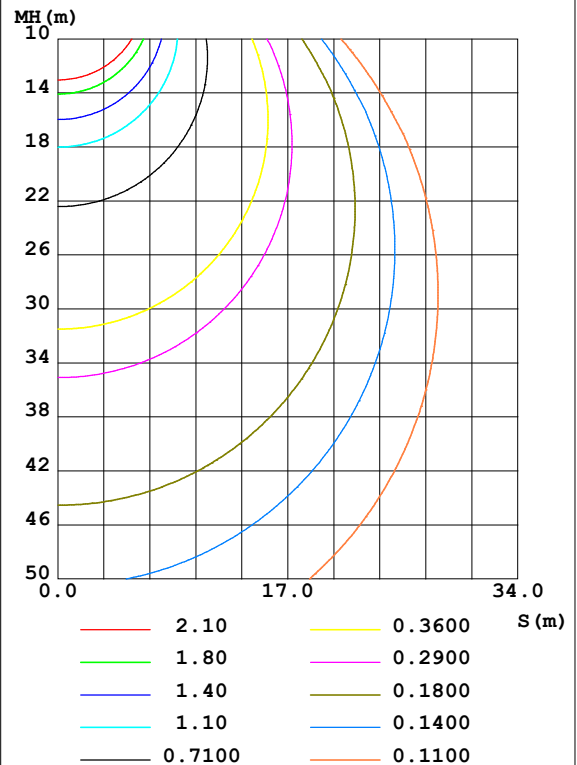
Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.84 lm/W			
MODEL		I _{max} (cd)	357.7	S/MH(C0/180)	1.26
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1066.1	η UP,DN(C0-180)	0.7,50.1
NOMINAL FLUX(lm)	1066.11	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,48.5
LAMPS INSIDE	1	η up(%)	1.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.6	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	351.9	351.6	350.7	352.6					0- 10	33.84	33.84	3.17,3.17
20	334.9	331.9	330.3	335.6					10- 20	97.05	130.9	12.3,12.3
30	306.8	304.2	301.6	306.9					20- 30	147.7	278.6	26.1,26.1
40	268.4	267.0	263.1	267.7					30- 40	179.5	458.0	43,43
50	220.6	221.2	215.7	218.5					40- 50	188.0	646.1	60.6,60.6
60	163.7	167.8	160.7	159.2					50- 60	171.4	817.5	76.7,76.7
70	104.0	108.4	101.0	94.44					60- 70	131.3	948.7	89,89
80	49.66	48.89	46.62	33.06					70- 80	76.31	1025	96.1,96.1
90	13.56	6.377	14.32	0.9157					80- 90	25.96	1051	98.6,98.6
100	2.436	1.188	3.807	1.000					90-100	4.656	1056	99,99
110	1.358	1.495	1.813	1.328					100-110	1.695	1057	99.2,99.2
120	1.631	1.853	1.791	1.637					110-120	1.590	1059	99.3,99.3
130	1.932	2.217	1.984	1.927					120-130	1.677	1061	99.5,99.5
140	2.256	2.479	2.239	2.194					130-140	1.667	1062	99.6,99.6
150	2.483	2.700	2.495	2.450					140-150	1.513	1064	99.8,99.8
160	2.717	2.876	2.825	2.745					150-160	1.233	1065	99.9,99.9
170	2.910	3.024	3.001	2.910					160-170	0.8152	1066	100,100
180	3.058	3.035	3.024	3.012					170-180	0.2854	1066	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 552.55 lm

%lum = 51.8%

%lamp = 51.8%

Conical surface Flux(120deg): 817.46 lm

%lum = 76.7%

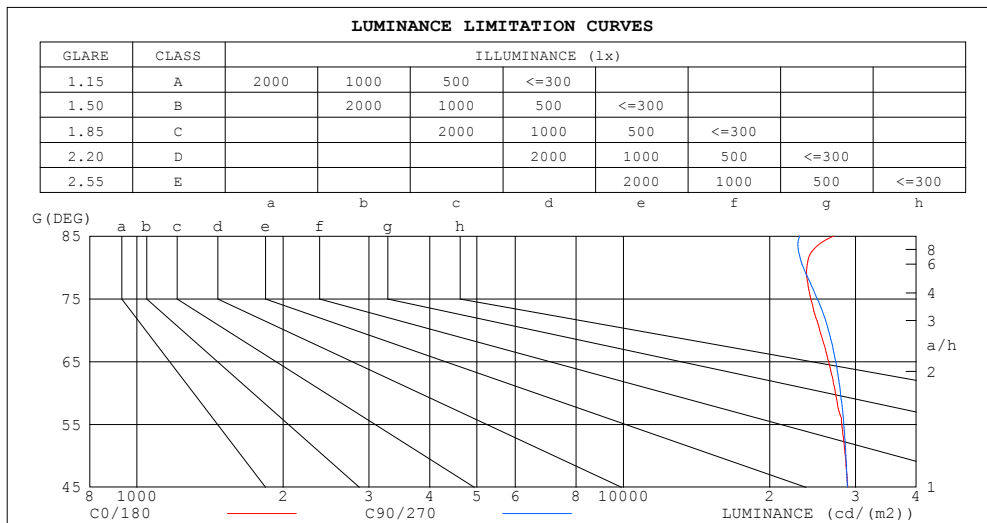
%lamp = 76.7%

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	27061	23057
80	23831	23461
75	24294	25045
70	25351	26407
65	26431	27333
60	27289	27962
55	28108	28392
50	28597	28678
45	28940	28889

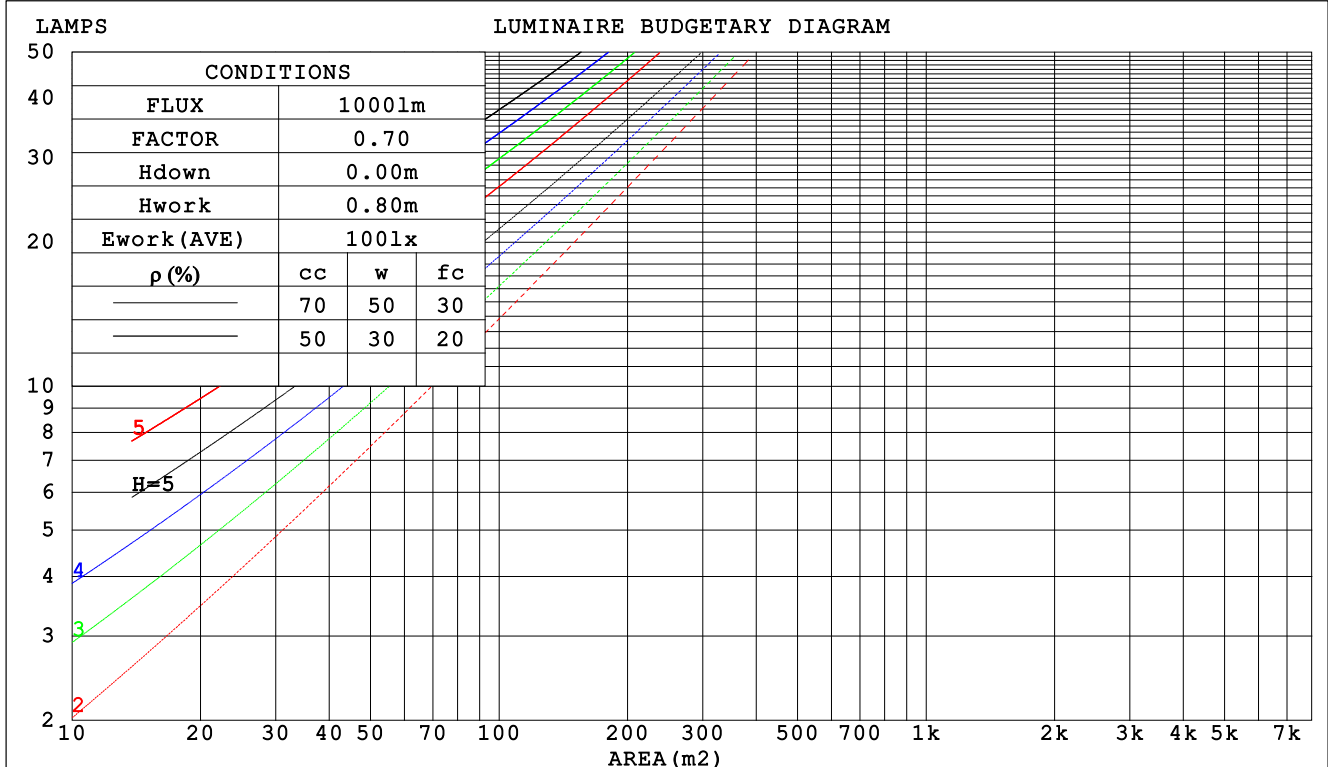
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 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	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.63	.57	.51	.60	.55	.51	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.36
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.34	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.32	.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:2026-05-06

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 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	.317	.180	.057	.310	.177	.056	.296	.170	.054	.283	.163	.052	.271	.157	.051		
2.0	.296	.162	.050	.289	.159	.049	.277	.154	.048	.265	.149	.047	.255	.144	.045		
3.0	.273	.145	.044	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040		
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.210	.111	.033	.203	.108	.033		
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030		
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.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	.175	.084	.024	.172	.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	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022		
1.0	.192	.167	.145	.164	.143	.125	.112	.099	.086	.065	.057	.050	.021	.018	.016		
2.0	.184	.143	.108	.157	.123	.094	.108	.085	.065	.062	.049	.038	.020	.016	.012		
3.0	.176	.125	.085	.151	.108	.074	.104	.075	.052	.060	.044	.030	.019	.014	.010		
4.0	.168	.112	.069	.145	.097	.060	.099	.068	.042	.058	.040	.025	.019	.013	.008		
5.0	.161	.102	.058	.138	.088	.050	.095	.062	.036	.055	.036	.021	.018	.012	.007		
6.0	.154	.093	.050	.132	.081	.044	.091	.057	.031	.053	.033	.018	.017	.011	.006		
7.0	.147	.087	.044	.126	.075	.039	.087	.053	.027	.051	.031	.016	.016	.010	.005		
8.0	.140	.081	.040	.121	.070	.035	.084	.049	.025	.049	.029	.015	.016	.010	.005		
9.0	.134	.076	.036	.116	.066	.032	.080	.046	.023	.047	.027	.013	.015	.009	.004		
10.0	.129	.072	.034	.111	.062	.029	.077	.044	.021	.045	.026	.012	.015	.008	.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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm										
NAME: 7417 2835 138LED. 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	24.2	25.7	24.5	26.0	26.2	24.3	25.8	24.6	26.0	26.3
3H	25.8	27.2	26.1	27.4	27.7	25.9	27.3	26.2	27.6	27.8
4H	26.4	27.8	26.8	28.0	28.3	26.6	27.9	26.9	28.2	28.5
6H	27.0	28.2	27.3	28.5	28.8	27.1	28.3	27.4	28.6	28.9
8H	27.2	28.4	27.5	28.7	29.0	27.3	28.5	27.6	28.8	29.1
12H	27.3	28.5	27.7	28.8	29.2	27.4	28.6	27.8	28.9	29.2
4H 2H	24.9	26.2	25.2	26.5	26.8	24.9	26.2	25.2	26.5	26.8
3H	26.6	27.8	27.0	28.1	28.4	26.7	27.9	27.1	28.2	28.5
4H	27.4	28.5	27.8	28.8	29.2	27.5	28.6	27.9	28.9	29.3
6H	28.1	29.0	28.5	29.4	29.8	28.1	29.1	28.6	29.5	29.9
8H	28.3	29.2	28.8	29.6	30.0	28.4	29.3	28.8	29.7	30.1
12H	28.6	29.4	29.0	29.8	30.2	28.6	29.4	29.0	29.8	30.2
8H 4H	27.7	28.6	28.1	29.0	29.4	27.8	28.7	28.2	29.1	29.5
6H	28.5	29.3	29.0	29.7	30.2	28.6	29.3	29.1	29.8	30.2
8H	28.9	29.6	29.4	30.0	30.5	29.0	29.6	29.4	30.1	30.5
12H	29.3	29.8	29.8	30.3	30.8	29.3	29.8	29.8	30.3	30.8
12H 4H	27.7	28.5	28.2	28.9	29.4	27.8	28.6	28.3	29.0	29.5
6H	28.6	29.3	29.1	29.7	30.2	28.7	29.3	29.2	29.8	30.3
8H	29.0	29.6	29.5	30.1	30.6	29.1	29.6	29.6	30.1	30.6
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, 1066 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.2$)
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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

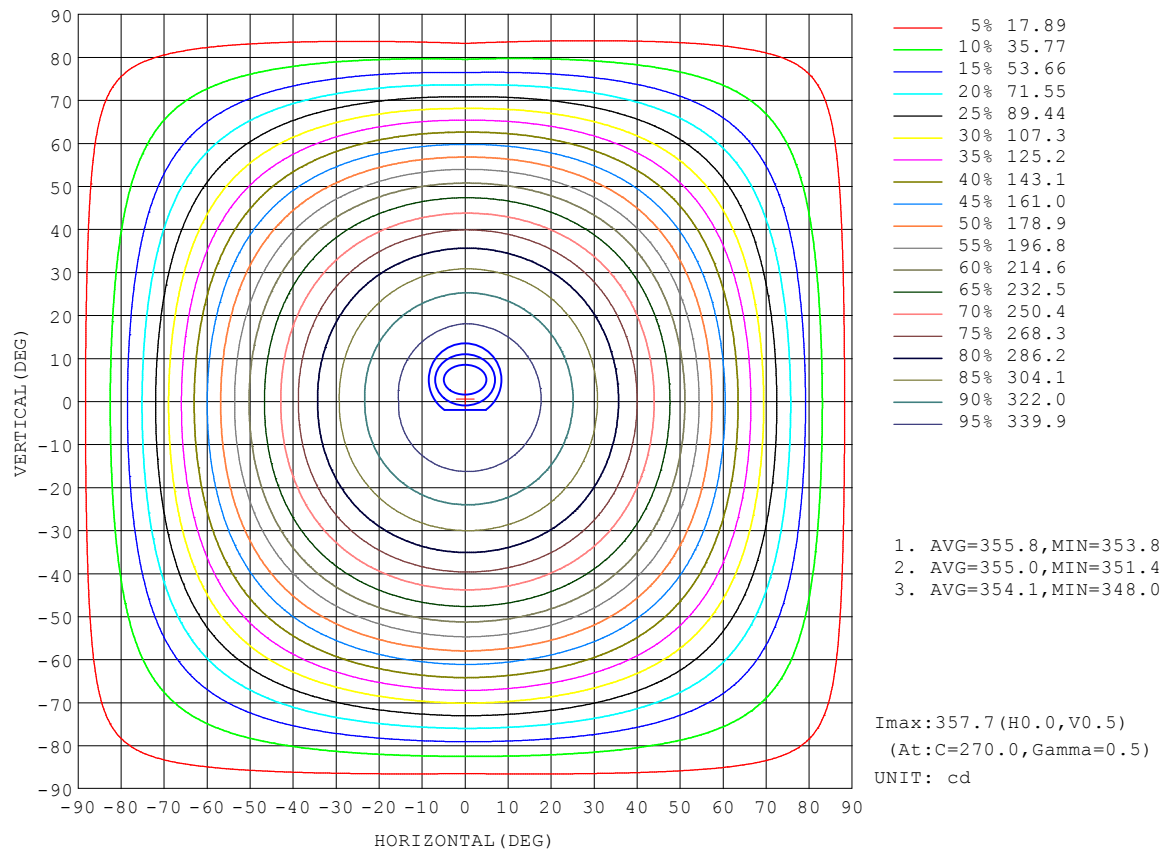
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	45	38	54	44	37	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	88	83	92	86	81	72
3.00	101	94	89	99	93	87	95	90	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	101	97	94	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:2026-05-06

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

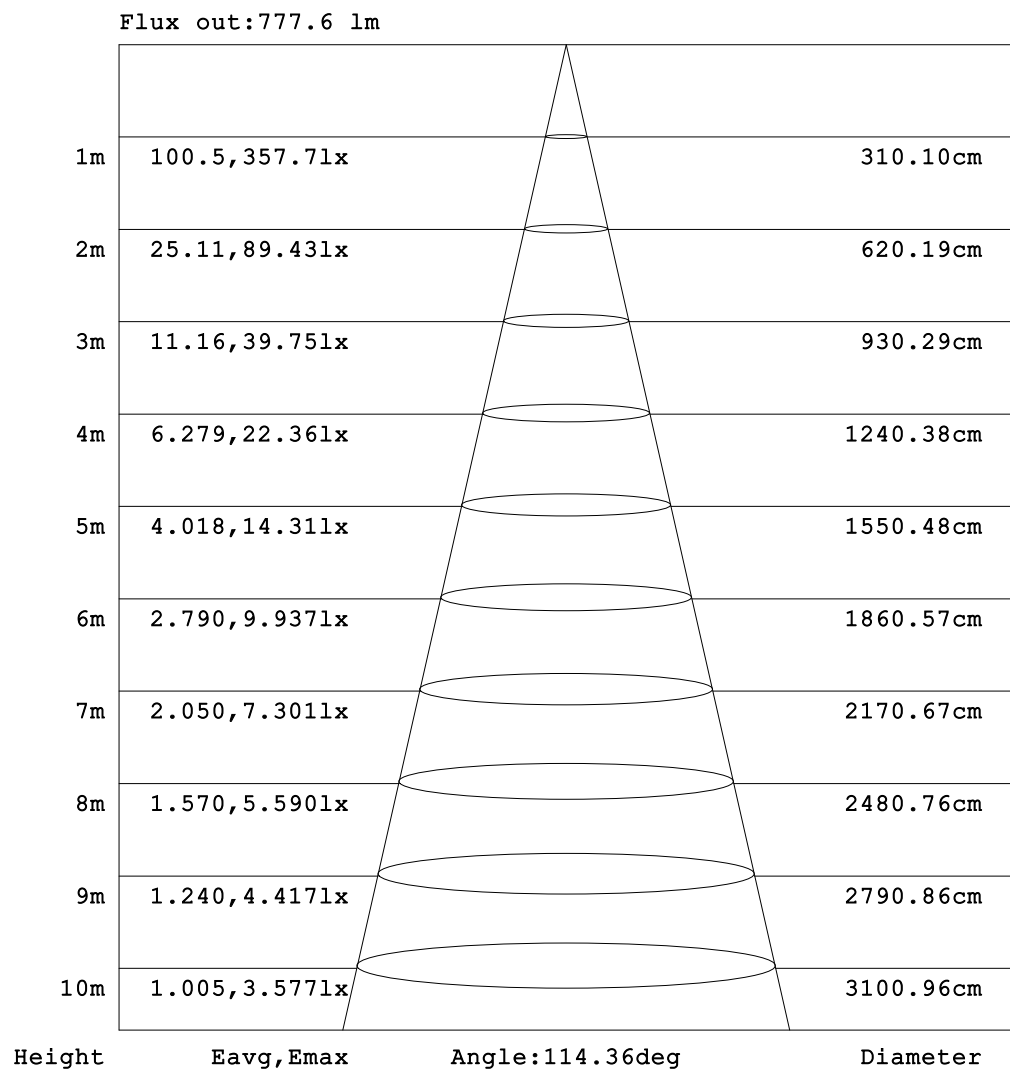


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yuan
Test Date:2026-05-06

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		



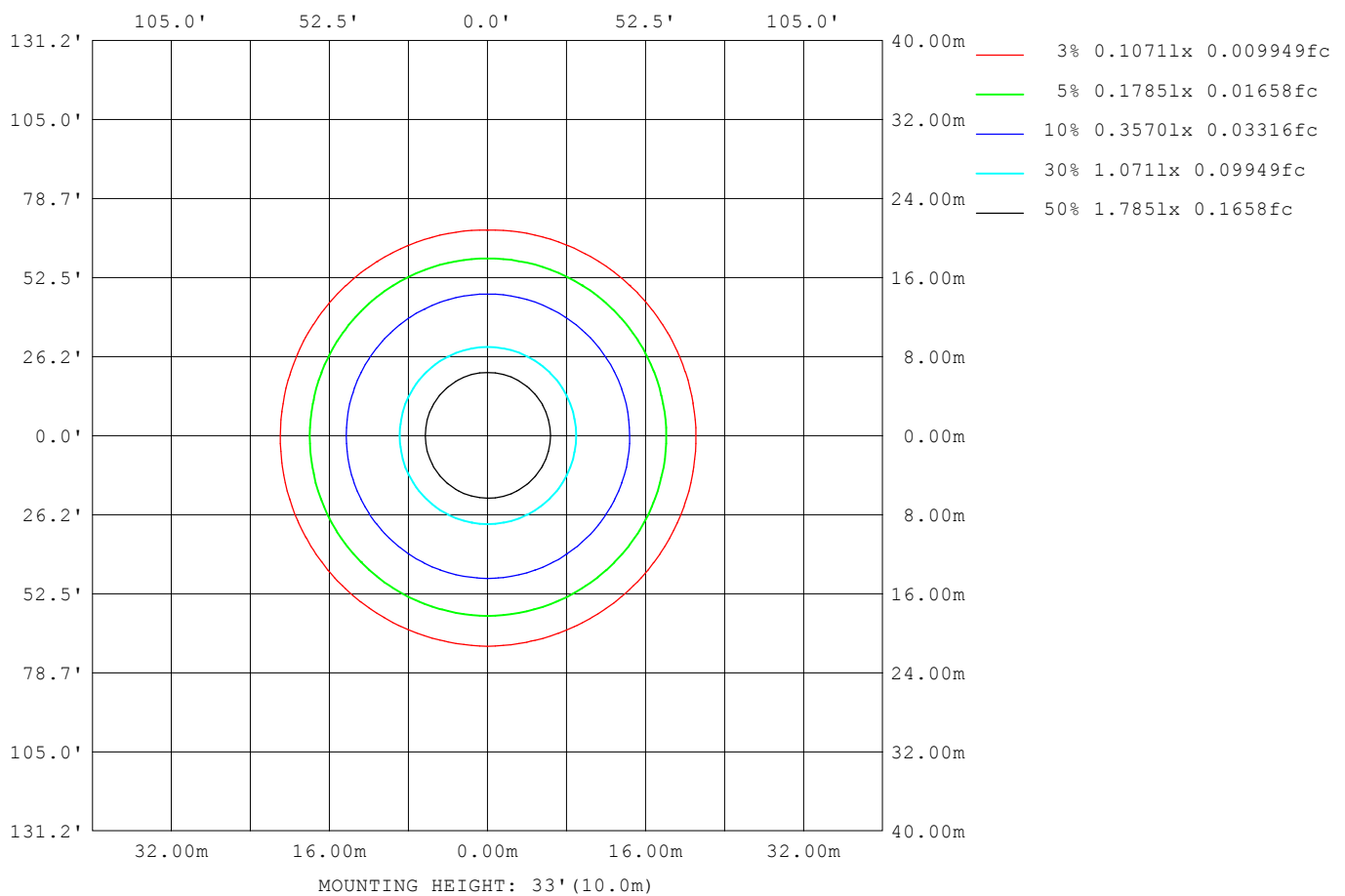
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

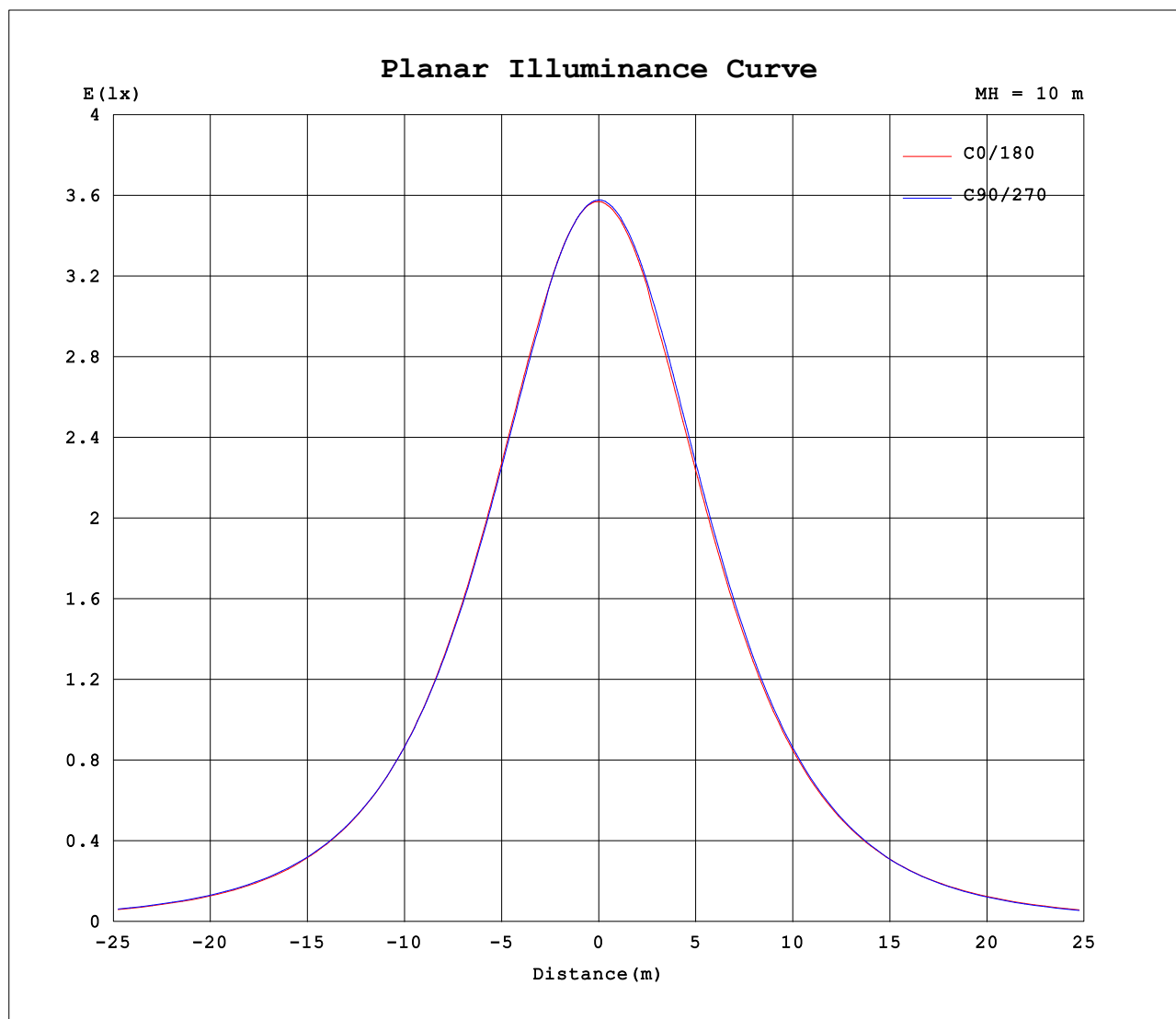
AvgL	cd/m2
L_0~180 (65) av	26140
L_0~180 (75) av	23771
L_0~180 (85) av	26391
L_90~270 (65) av	26224
L_90~270 (75) av	22532
L_90~270 (85) av	16655
L_45 (65) av	26174
L_45 (75) av	22964
L_45 (85) av	20264

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:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1066.11x1 lm		
NAME: 7417 2835 138LED. 3000K IRC97 24V	TYPE:	
SPEC.:		
MFR.: NORDECOR		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	357	358	357	358															
5	356	356	355	357															
10	352	352	351	353															
15	345	344	341	346															
20	335	332	330	336															
25	322	319	317	323															
30	307	304	302	307															
35	289	287	283	289															
40	268	267	263	268															
45	246	245	240	244															
50	221	221	216	219															
55	193	195	189	190															
60	164	168	161	159															
65	134	139	131	127															
70	104	108	101	94.4															
75	75.5	77.8	72.2	62.2															
80	49.7	48.9	46.6	33.1															
85	28.3	24.1	26.9	10.7															
90	13.6	6.38	14.3	0.92															
95	5.75	1.09	7.43	0.92															
100	2.44	1.19	3.81	1.00															
105	1.37	1.33	2.07	1.16															
110	1.36	1.50	1.81	1.33															
115	1.48	1.66	1.77	1.47															
120	1.63	1.85	1.79	1.64															
125	1.81	2.04	1.86	1.82															
130	1.93	2.22	1.98	1.93															
135	2.09	2.35	2.11	2.09															
140	2.26	2.48	2.24	2.19															
145	2.36	2.60	2.37	2.36															
150	2.48	2.70	2.50	2.45															
155	2.59	2.78	2.72	2.65															
160	2.72	2.88	2.83	2.75															
165	2.81	2.97	2.93	2.83															
170	2.91	3.02	3.00	2.91															
175	2.95	3.04	3.02	3.00															
180	3.06	3.04	3.02	3.01															

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: