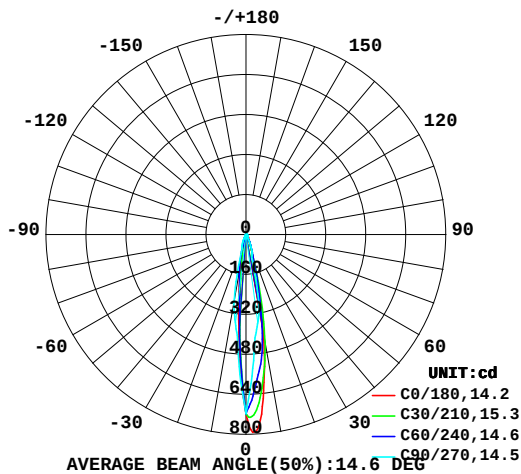


LUMINAIRE PHOTOMETRIC TEST REPORT

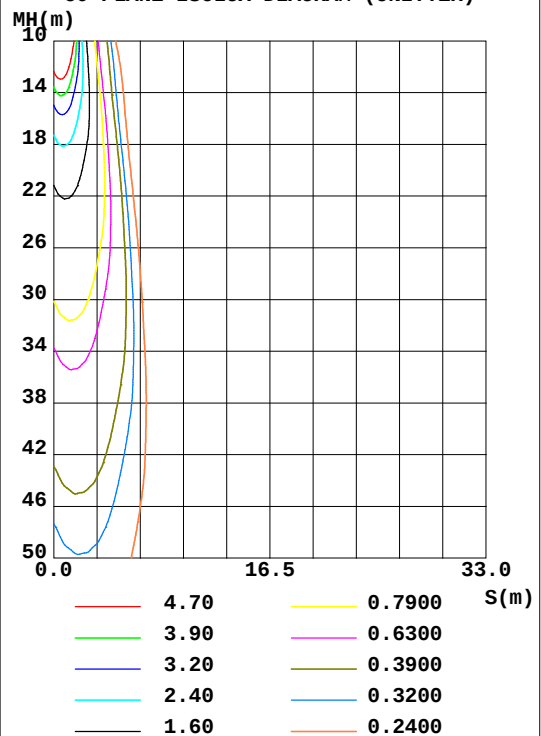
Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 43.72 lm/W			
MODEL		I _{max} (cd)	791.8	S/MH(C0/180)	0.16
NOMINAL POWER(W)	2	LOR(%)	100.0	S/MH(C90/270)	0.23
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	91.816	h UP, DN(C0-180)	0.0,52.5
NOMINAL FLUX(lm)	91.8158	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,47.5
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H_b Range: -90 - 90DEG
H_b Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	399.9	406.3	306.4	120.0	126.5	112.5	281.7	390.9	0- 10	37.92	37.92	41.3, 41.3
20	63.28	72.39	70.77	27.17	27.99	23.33	46.34	56.41	10- 20	31.89	69.81	76, 76
30	16.97	21.13	10.45	8.532	8.217	8.588	11.28	19.22	20- 30	12.60	82.41	89.8, 89.8
40	5.557	4.640	5.291	2.934	3.334	2.961	4.937	5.569	30- 40	4.788	87.20	95, 95
50	1.863	2.113	2.175	1.511	1.365	1.100	1.411	1.746	40- 50	2.110	89.31	97.3, 97.3
60	0.8276	1.020	1.104	0.8657	0.7950	0.6480	0.7028	0.6911	50- 60	1.019	90.33	98.4, 98.4
70	0.6523	0.7290	0.8310	0.6926	0.6693	0.5768	0.6191	0.6098	60- 70	0.7200	91.05	99.2, 99.2
80	0.6103	0.5223	0	0.4888	0.5774	0.4419	0	0.4545	70- 80	0.6031	91.65	99.8, 99.8
90	0.5857	0	0	0	0.5356	0	0	0	80- 90	0.1673	91.82	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 88.488 lm

%lum = 96.4%

%lamp = 96.4%

Conical surface Flux(120deg): 90.325 lm

%lum = 98.4%

%lamp = 98.4%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-18

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	63	0
80	35	0
75	23	26
70	19	24
65	17	22
60	17	22
55	19	28
50	29	34
45	48	38

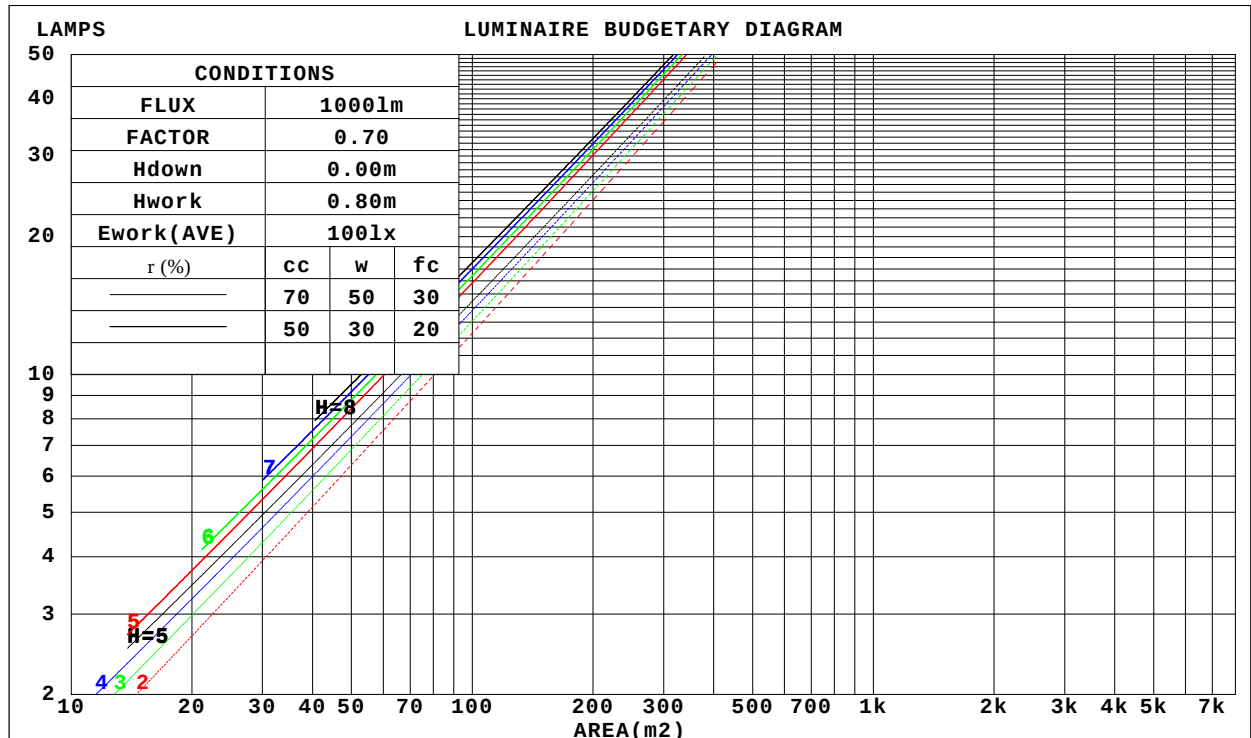
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°

r CC	80%			70%			50%			30%			10%			0
r W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r 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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.97	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.95	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.87	.94	.90	.87	.92	.88	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.87	.84	.90	.86	.83	.89	.86	.83	.88	.85	.82	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.85	.82	.80	.79
8.0	.86	.81	.79	.85	.81	.78	.84	.81	.78	.83	.80	.78	.82	.80	.77	.76
9.0	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.74	.73



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.145	.082	.026	.138	.079	.025	.126	.072	.023	.114	.066	.021	.104	.060	.019	
2.0	.134	.073	.022	.128	.071	.022	.118	.066	.020	.109	.061	.019	.100	.056	.018	
3.0	.124	.066	.020	.120	.064	.019	.111	.060	.018	.103	.056	.017	.096	.053	.016	
4.0	.116	.060	.018	.112	.059	.017	.105	.055	.017	.098	.053	.016	.092	.050	.015	
5.0	.108	.055	.016	.105	.054	.016	.099	.052	.015	.093	.049	.015	.088	.047	.014	
6.0	.102	.051	.015	.099	.050	.014	.094	.048	.014	.089	.046	.014	.084	.044	.013	
7.0	.096	.048	.014	.094	.047	.013	.089	.045	.013	.085	.044	.013	.081	.042	.012	
8.0	.091	.045	.013	.089	.044	.012	.085	.043	.012	.081	.041	.012	.078	.040	.012	
9.0	.087	.042	.012	.085	.041	.012	.082	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010	

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.136	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.104	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.078	.053	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm											
NAME: 6441-2W-3000K						TYPE:室内			WEIGHT:		
SPEC.:						DIM.: 52*52*100mm			SERIAL No.:01		
MFR.: NORDECOR						SUR.:			Shielding Angle:15°		
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	2.5	3.2	2.7	3.3	3.5	2.4	3.0	2.6	3.2	3.3	
	3H	3.0	3.7	3.3	3.8	4.0	3.3	3.9	3.5	4.1	4.3
	4H	3.5	4.1	3.8	4.3	4.5	3.9	4.5	4.2	4.7	4.9
	6H	4.3	4.8	4.5	5.1	5.3	4.0	4.6	4.3	4.8	5.0
	8H	4.8	5.3	5.1	5.6	5.8	3.9	4.5	4.2	4.7	5.0
	12H	5.5	6.0	5.8	6.3	6.5	3.9	4.4	4.2	4.7	5.0
4H	2H	2.7	3.3	2.9	3.5	3.7	2.5	3.1	2.8	3.3	3.5
	3H	3.4	3.9	3.7	4.2	4.5	3.7	4.3	4.0	4.5	4.8
	4H	4.1	4.6	4.4	4.9	5.2	4.6	5.0	4.9	5.3	5.6
	6H	5.1	5.5	5.5	5.9	6.2	4.7	5.1	5.1	5.5	5.8
	8H	5.8	6.2	6.2	6.6	6.9	4.6	5.0	5.0	5.4	5.8
	12H	6.7	7.1	7.2	7.5	7.9	4.6	5.0	5.0	5.3	5.7
8H	4H	4.5	4.9	4.9	5.2	5.6	4.9	5.3	5.3	5.6	6.0
	6H	5.8	6.2	6.3	6.6	7.0	5.1	5.4	5.5	5.8	6.2
	8H	6.8	7.1	7.2	7.5	7.9	5.0	5.3	5.5	5.7	6.2
	12H	8.0	8.2	8.4	8.7	9.1	5.0	5.2	5.4	5.7	6.1
12H	4H	4.5	4.8	4.9	5.2	5.6	5.0	5.3	5.4	5.7	6.1
	6H	5.8	6.1	6.3	6.6	7.0	5.2	5.5	5.6	5.9	6.3
	8H	6.8	7.1	7.3	7.5	8.0	5.1	5.4	5.6	5.8	6.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.7					+ 0.7 / - 0.8					
1.5H	+ 1.0 / - 0.6					+ 1.3 / - 0.8					
2.0H	+ 0.9 / - 0.4					+ 0.6 / - 0.5					

CIE Pub.117, 91.82 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.3)
Area: 0.1 m2

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°

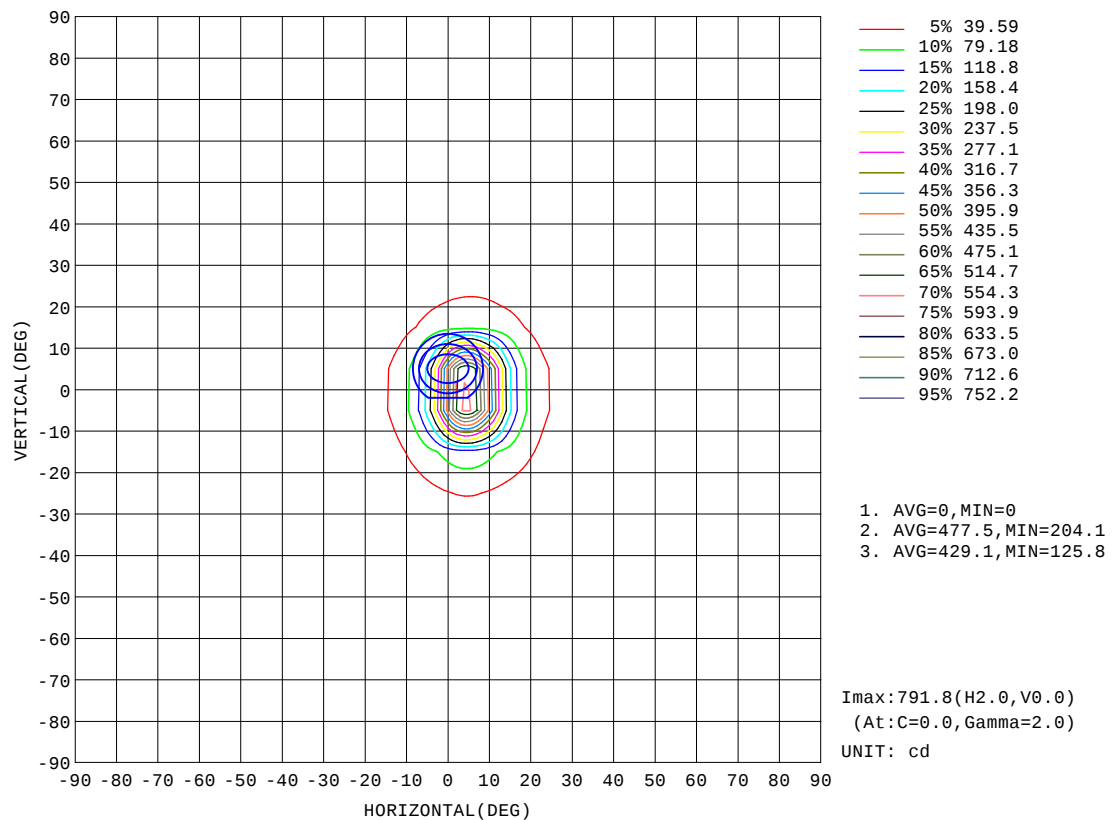
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	82	79	88	82	79	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	101	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H_b Range:-90 - 90DEG
H_b Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°



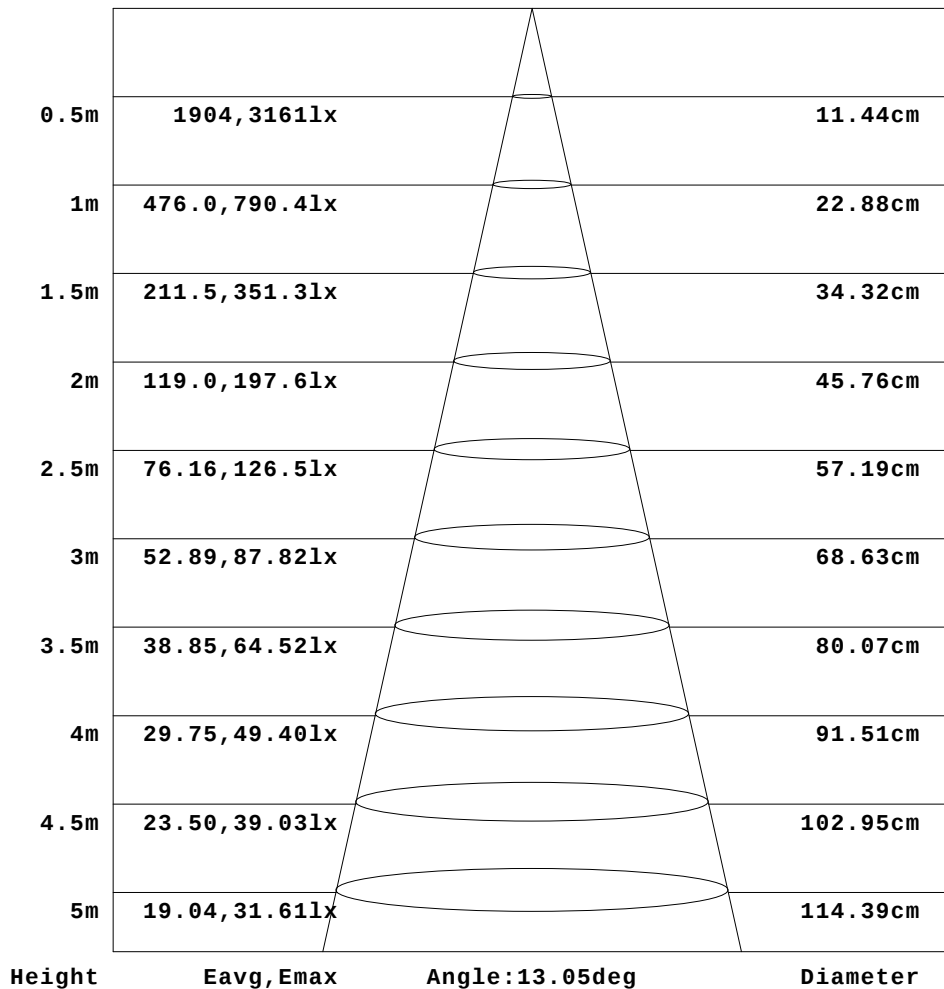
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°

Flux out:22.54 lm



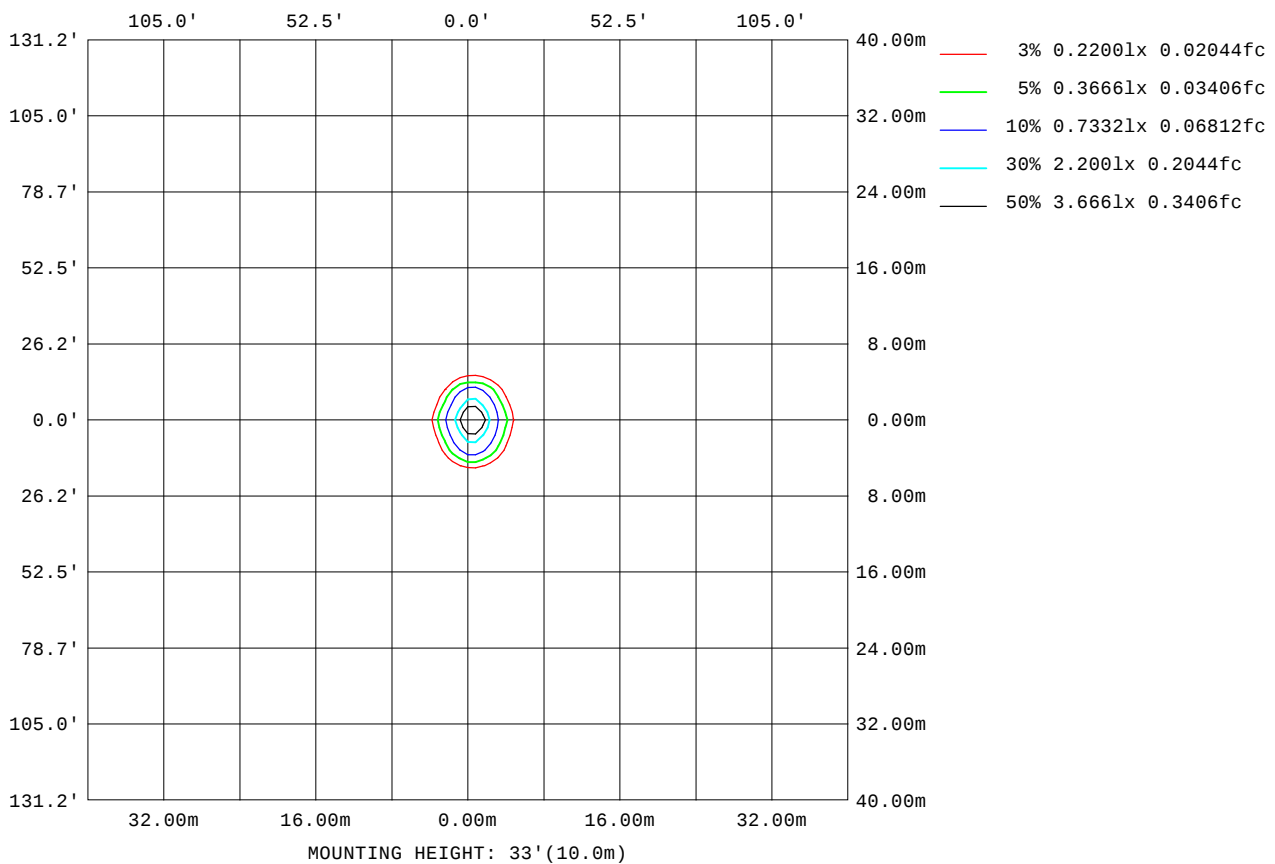
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.31V I:0.0224A P:2.1002W PF:0.4261 Freq:50.00Hz Lamp Flux:91.8158x1 lm		
NAME: 6441-2W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 52*52*100mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:15°

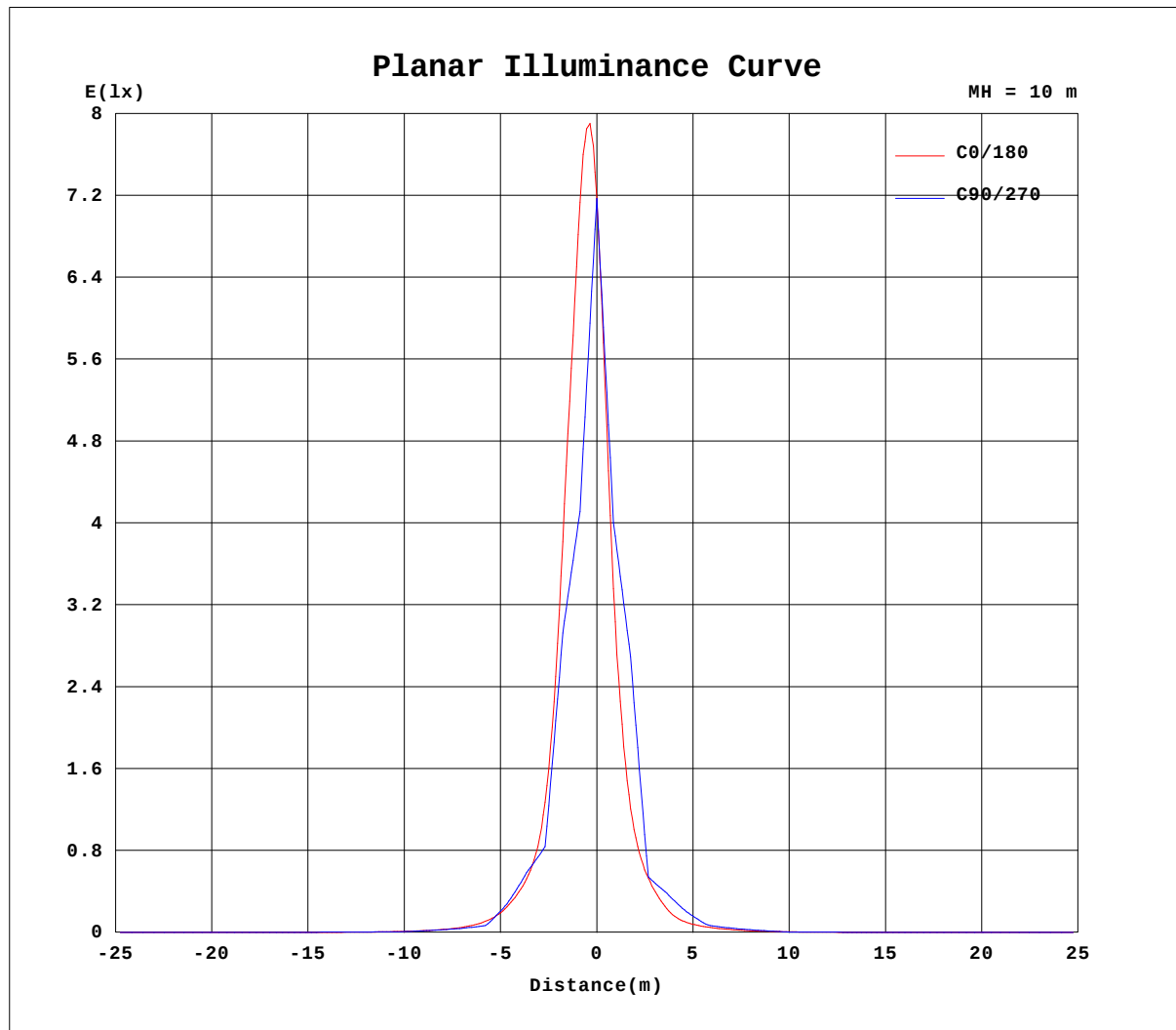
AvgL	cd/m2
L_0~180(65)av	17
L_0~180(75)av	24
L_0~180(85)av	63
L_90~270(65)av	19
L_90~270(75)av	24
L_90~270(85)av	0
L_45(65)av	17
L_45(75)av	24
L_45(85)av	0

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



H_b Range: -90 - 90DEG
H_b Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-18

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

