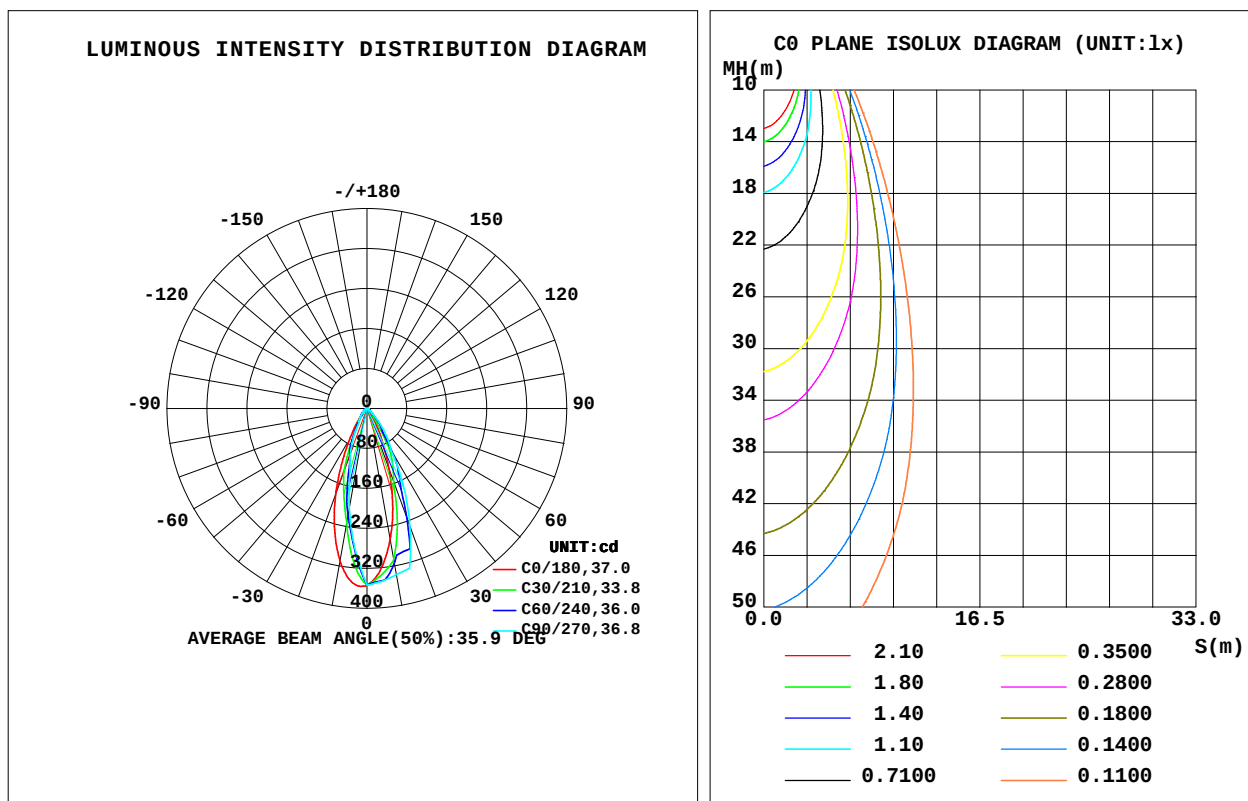


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 29.36 lm/W			
MODEL		I _{max} (cd)	356.2	S/MH(C0/180)	0.66
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.40
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	178.53	h UP, DN(C0-180)	0.0,60.8
NOMINAL FLUX(lm)	178.534	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,39.2
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	100.0	CIBSE SHR MAX	0.65



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-20

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:7.700m [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	266.7	307.0	337.7	308.4	310.3	226.2	204.5	225.8	0- 10	28.95	28.95	16.2, 16.2
20	129.8	226.9	252.2	203.0	184.6	104.0	97.63	102.9	10- 20	59.72	88.67	49.7, 49.7
30	37.76	82.69	96.89	96.20	66.85	49.51	32.97	40.54	20- 30	48.44	137.1	76.8, 76.8
40	8.342	21.93	43.21	32.06	17.84	17.56	19.22	13.45	30- 40	23.73	160.8	90.1, 90.1
50	2.317	5.160	11.83	9.252	3.335	10.06	9.690	8.023	40- 50	9.823	170.7	95.6, 95.6
60	1.305	1.591	2.759	2.085	1.712	5.204	4.368	4.459	50- 60	4.296	175.0	98, 98
70	1.088	1.174	1.817	1.276	1.200	1.568	2.489	1.504	60- 70	2.080	177.0	99.2, 99.2
80	0.9461	0.8492	0	0.8727	1.073	0.8096	0	0.7878	70- 80	1.229	178.3	99.8, 99.8
90	0.8706	0	0	0	0.8655	0	0	0	80- 90	0.2728	178.5	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): 167 lm

%lum = 93.5%

%lamp = 93.5%

Conical surface Flux(120deg): 174.95 lm

%lum = 98.0%

%lamp = 98.0%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-20

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:7.700m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	99	0
80	54	0
75	40	52
70	32	53
65	27	55
60	26	55
55	30	130
50	36	184
45	49	236

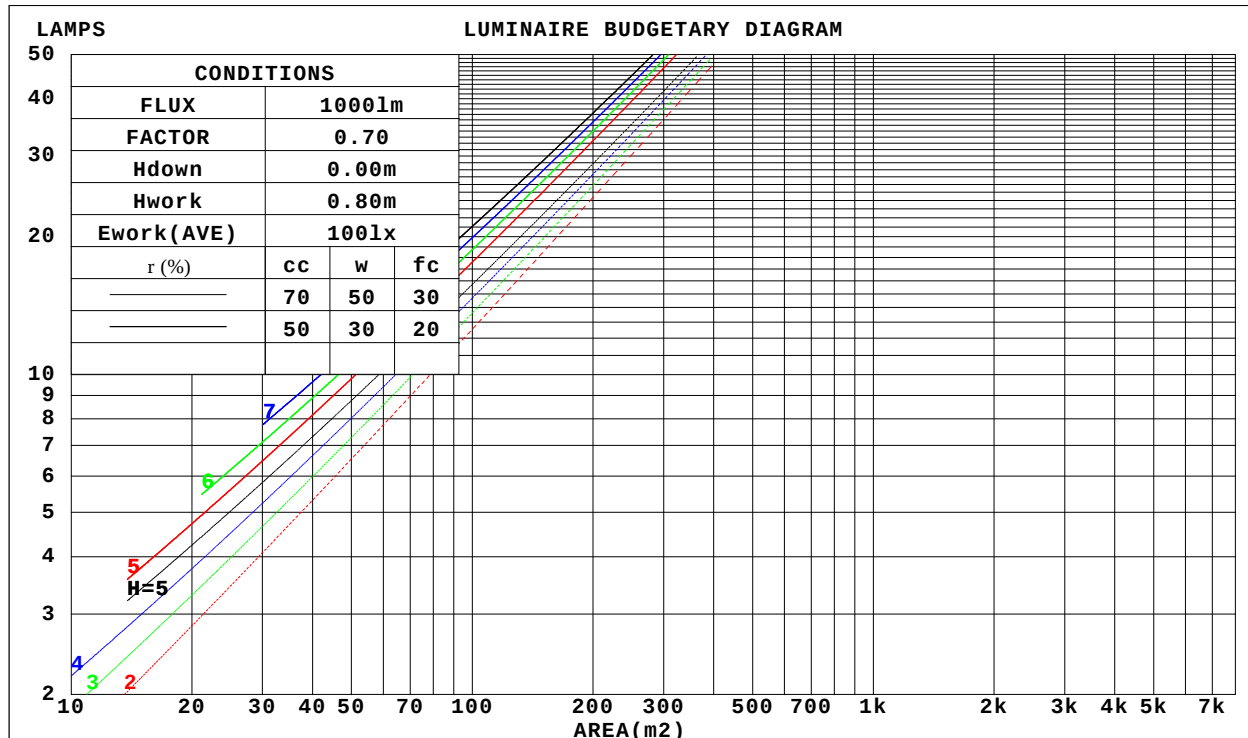
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°

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	.00
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.98	.98	.98	.96	.95	.94
2.0	1.03	.98	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.88	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.81	.78	.74	.80	.77	.74	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.78	.73	.70	.76	.73	.70	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.65
8.0	.73	.67	.64	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.61
9.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.63	.60	.58
10.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.64	.60	.57	.56



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°

r c c	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 f c	20%			20%			20%			20%			20%			0
R C R	R C R:Room Cavity Ratio Wall Exitance Coefficients(W E C)															
0.0																
1.0	.176	.100	.032	.169	.097	.031	.157	.090	.029	.145	.084	.027	.134	.078	.025	
2.0	.167	.092	.028	.161	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024	
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.136	.074	.023	.128	.071	.022	
4.0	.149	.078	.023	.145	.076	.022	.137	.073	.022	.130	.070	.021	.123	.067	.020	
5.0	.141	.072	.021	.138	.071	.021	.131	.068	.020	.125	.066	.020	.119	.064	.019	
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.120	.062	.018	.115	.060	.018	
7.0	.128	.063	.018	.125	.062	.018	.120	.061	.017	.115	.059	.017	.110	.057	.017	
8.0	.122	.060	.017	.119	.059	.017	.115	.057	.016	.110	.056	.016	.106	.055	.016	
9.0	.116	.056	.016	.114	.056	.016	.110	.054	.015	.106	.053	.015	.103	.052	.015	
10.0	.111	.053	.015	.110	.053	.015	.106	.052	.015	.102	.051	.014	.099	.050	.014	

r c c	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 f c	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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.123	.087	.060	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.093	.061	.037	.065	.043	.026	.037	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.055	.033	.017	.032	.019	.010	.010	.006	.003	

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm											
NAME: 6446-7W-2700K						TYPE:室内			WEIGHT:		
SPEC.:						DIM.: 88*88*165mm			SERIAL No.:01		
MFR.: NORDECOR						SUR.:			Shielding Angle:45°		
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	4.2	5.1	4.4	5.3	5.4	9.8	10.7	10.0	10.8	11.0	
	3H	4.3	5.1	4.6	5.3	5.5	9.8	10.6	10.0	10.8	
	4H	4.5	5.3	4.8	5.5	5.7	9.8	10.6	10.1	10.8	
	6H	4.9	5.6	5.2	5.9	6.1	9.7	10.5	10.0	10.7	
	8H	5.1	5.9	5.5	6.1	6.4	9.7	10.4	10.0	10.7	
	12H	5.5	6.2	5.9	6.5	6.8	9.6	10.3	10.0	10.6	
4H	2H	4.2	4.9	4.4	5.2	5.4	9.5	10.3	9.8	10.5	
	3H	4.4	5.1	4.7	5.3	5.6	9.6	10.3	9.9	10.6	
	4H	4.7	5.3	5.1	5.6	6.0	9.7	10.3	10.0	10.6	
	6H	5.3	5.9	5.7	6.2	6.5	9.6	10.2	10.0	10.5	
	8H	5.7	6.2	6.1	6.6	7.0	9.6	10.1	10.0	10.4	
	12H	6.3	6.8	6.7	7.1	7.5	9.5	10.0	9.9	10.4	
8H	4H	4.9	5.4	5.3	5.8	6.1	9.6	10.1	10.0	10.5	
	6H	5.7	6.1	6.2	6.5	7.0	9.6	10.0	10.0	10.4	
	8H	6.3	6.7	6.8	7.1	7.6	9.5	9.9	10.0	10.3	
	12H	7.1	7.4	7.6	7.9	8.4	9.5	9.8	9.9	10.2	
12H	4H	4.9	5.3	5.3	5.7	6.1	9.6	10.0	10.0	10.4	
	6H	5.7	6.1	6.2	6.5	6.9	9.5	9.9	10.0	10.3	
	8H	6.3	6.7	6.8	7.1	7.6	9.5	9.8	10.0	10.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 1.6 / - 1.9					+ 2.7 / - 4.5					
1.5H	+ 2.7 / - 1.8					+ 4.7 / - 5.0					
2.0H	+ 1.1 / - 0.4					+ 3.6 / - 3.5					

CIE Pub.117, 178.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.0)
Area: 0.1 m2

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°

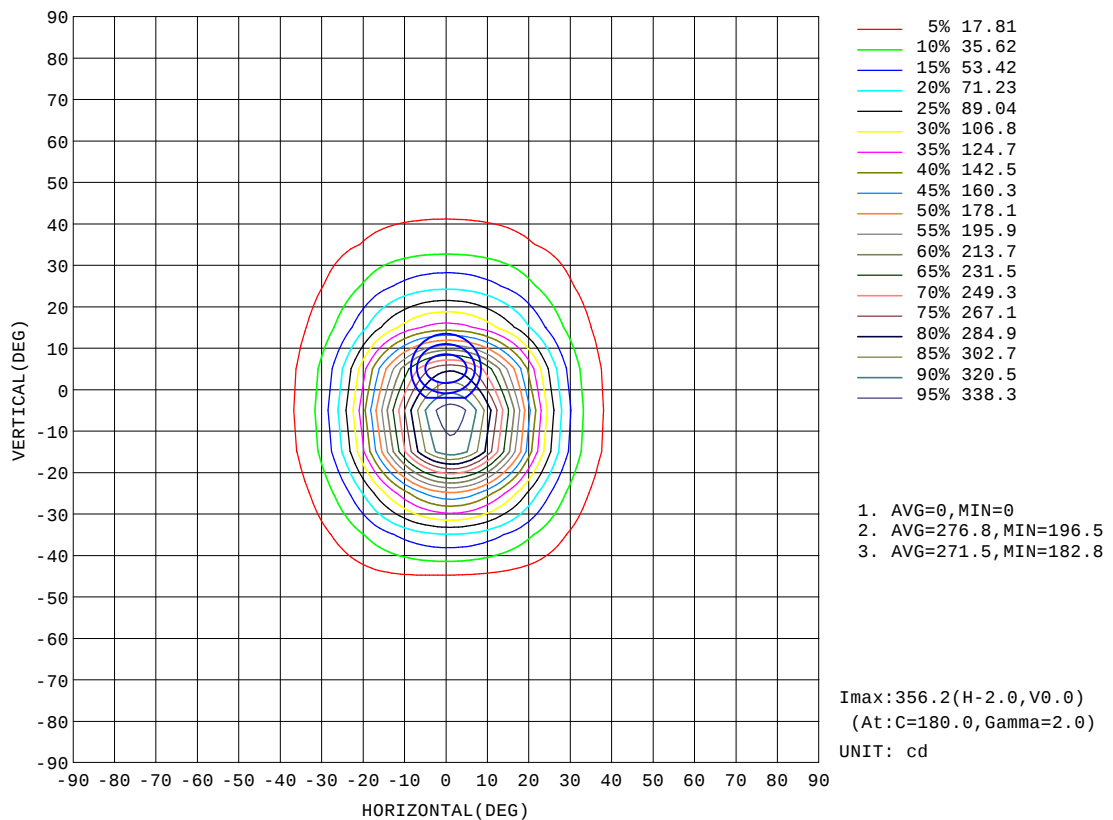
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	101	105	102	100	94
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	109	107	106	98
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:2026-08-20

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:7.700m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°



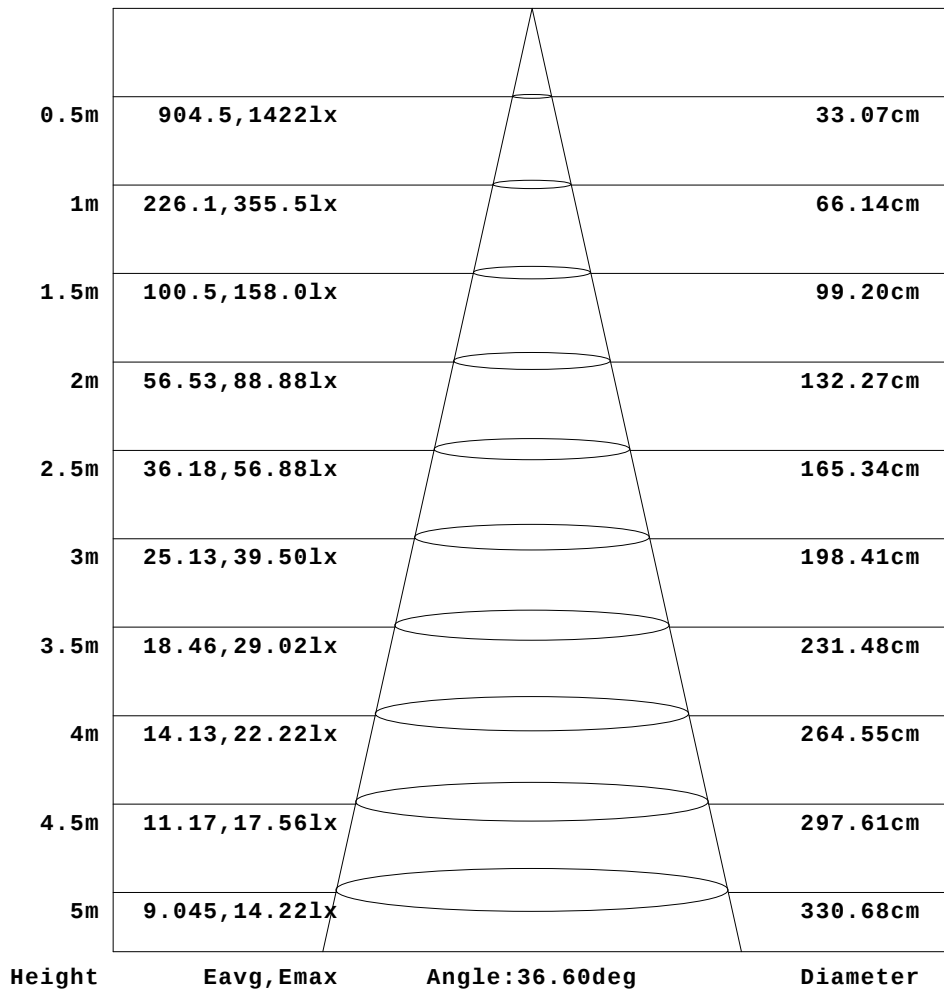
H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-20

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:7.700m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°

Flux out:79.53 lm



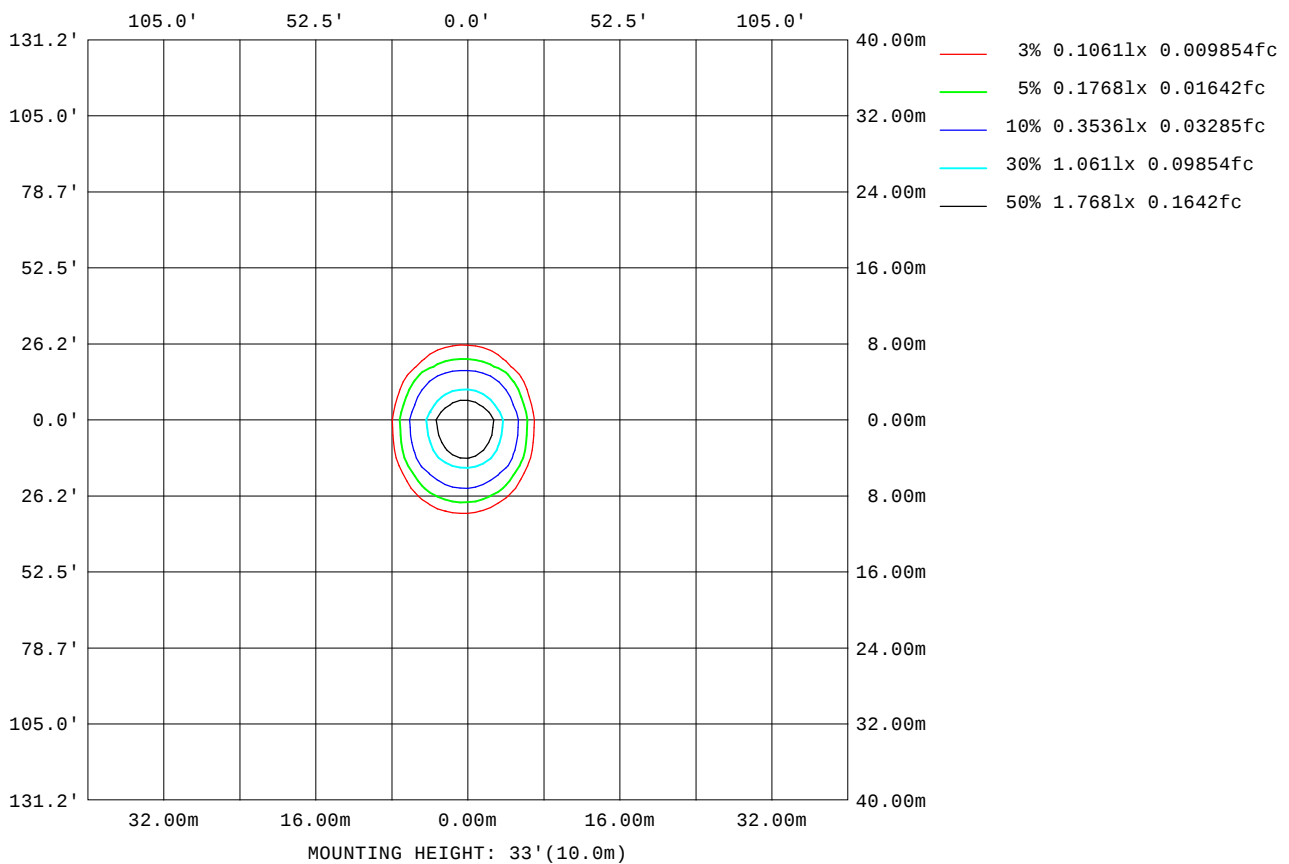
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.29V I:0.0607A P:6.0799W PF:0.4546 Freq:50.00Hz Lamp Flux:178.534x1 lm		
NAME: 6446-7W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 88*88*165mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:45°

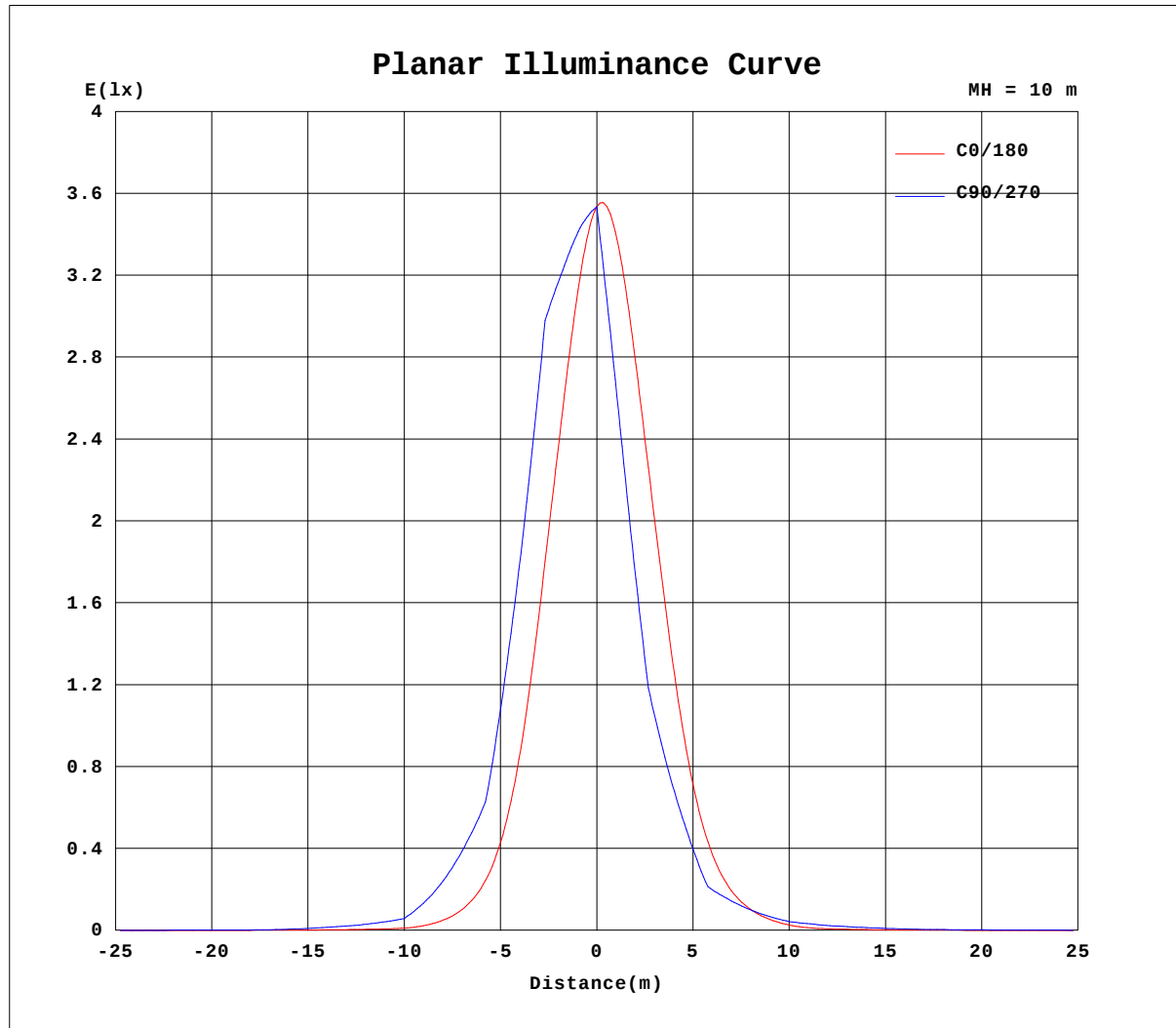
AvgL	cd/m2
L_0~180(65)av	29
L_0~180(75)av	42
L_0~180(85)av	105
L_90~270(65)av	68
L_90~270(75)av	56
L_90~270(85)av	0
L_45(65)av	50
L_45(75)av	45
L_45(85)av	0

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-20

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:7.700m [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: 2026-08-20

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: 7.700m [K=1.0000]
Remarks:

