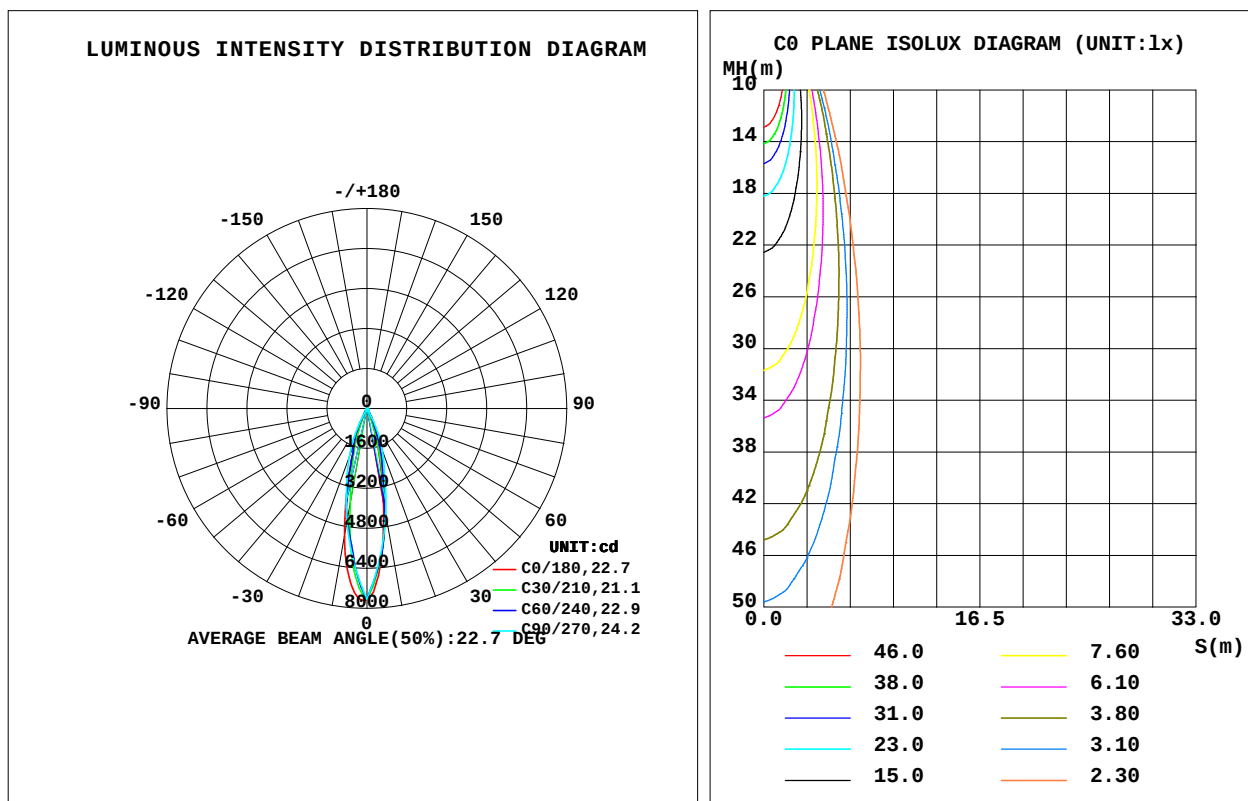


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.65 lm/W			
MODEL		I _{max} (cd)	7683	S/MH(C0/180)	0.43
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	1583.9	h UP, DN(C0-180)	0.0,48.5
NOMINAL FLUX(lm)	1583.92	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.5
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



H_b Range: -90 - 90DEG
H_b Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-10

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:7.900m [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	3778	4091	4321	4105	5211	4253	4610	4231	0- 10	529.9	529.9	33.5, 33.5
20	764.3	1061	1812	970.2	1275	1060	2107	1214	10- 20	679.4	1209	76.4, 76.4
30	91.62	170.0	110.6	197.7	131.3	208.3	127.8	184.3	20- 30	275.1	1484	93.7, 93.7
40	33.78	25.65	56.66	32.55	49.50	32.32	59.39	25.91	30- 40	44.07	1528	96.5, 96.5
50	22.85	15.38	26.10	20.74	33.12	19.46	21.69	14.64	40- 50	21.29	1550	97.8, 97.8
60	15.02	10.36	18.96	14.48	22.39	12.60	14.74	9.409	50- 60	15.64	1565	98.8, 98.8
70	9.017	7.005	10.83	10.01	13.75	8.365	9.409	6.350	60- 70	11.32	1577	99.5, 99.5
80	4.453	2.847	0	3.720	6.452	3.832	0	3.240	70- 80	6.261	1583	99.9, 99.9
90	2.877	0	0	0	2.441	0	0	0	80- 90	0.9220	1584	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): 1540.4 lm

%lum = 97.3%

%lamp = 97.3%

Conical surface Flux(120deg): 1565.4 lm

%lum = 98.8%

%lamp = 98.8%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-10

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:7.900m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	352	0
80	256	0
75	234	263
70	264	317
65	277	357
60	300	379
55	330	397
50	355	406
45	374	423

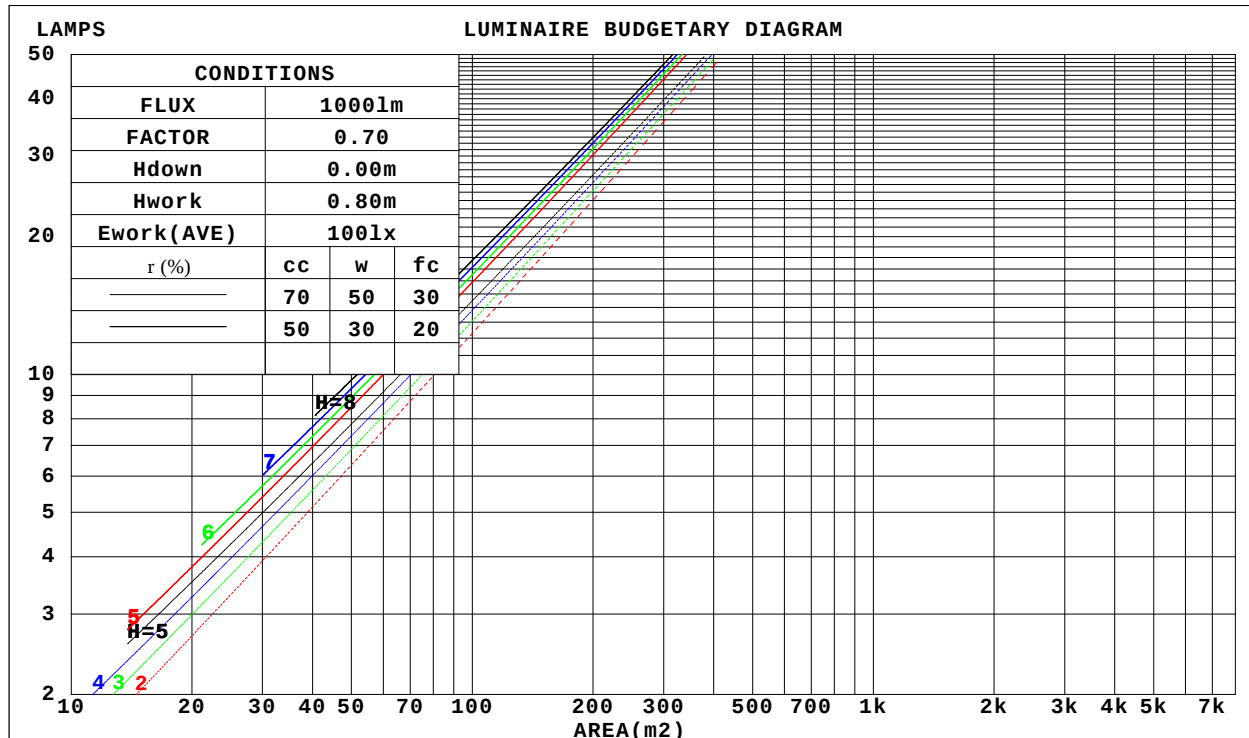
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

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	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.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	.94	.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	.93	.89	.86	.92	.88	.85	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.86	.83	.90	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
7.0	.88	.83	.80	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.78
8.0	.85	.80	.77	.84	.80	.77	.83	.80	.77	.82	.79	.77	.82	.79	.76	.75
9.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.79	.77	.74	.73
10.0	.80	.76	.73	.79	.75	.73	.79	.75	.73	.78	.75	.72	.77	.74	.72	.71



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

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 Wall Exitance Coefficients(WEC)															
0.0																
1.0	.144	.082	.026	.137	.078	.025	.125	.072	.023	.114	.066	.021	.103	.060	.019	
2.0	.134	.073	.022	.128	.071	.022	.118	.066	.020	.109	.061	.019	.100	.056	.018	
3.0	.125	.066	.020	.120	.064	.019	.111	.060	.018	.103	.057	.017	.096	.053	.016	
4.0	.117	.061	.018	.113	.059	.017	.105	.056	.017	.099	.053	.016	.092	.050	.015	
5.0	.110	.056	.016	.106	.055	.016	.100	.052	.015	.094	.050	.015	.089	.048	.014	
6.0	.104	.052	.015	.101	.051	.015	.095	.049	.014	.090	.047	.014	.086	.045	.013	
7.0	.098	.049	.014	.096	.048	.014	.091	.046	.013	.087	.044	.013	.083	.043	.013	
8.0	.093	.046	.013	.091	.045	.013	.087	.044	.012	.083	.042	.012	.080	.041	.012	
9.0	.089	.043	.012	.087	.043	.012	.084	.041	.012	.080	.040	.012	.077	.039	.011	
10.0	.085	.041	.011	.084	.040	.011	.081	.039	.011	.077	.038	.011	.075	.038	.011	

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	.169	.158	.147	.144	.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	.107	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.078	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.080	.051	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm											
NAME: 6810-18W-4000K					TYPE:室内			WEIGHT:			
SPEC.:					DIM.: 102*102*92mm			SERIAL No.:01			
MFR.: NORDECOR					SUR.:			Shielding Angle:24°			
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	2H	-2.6	-1.9	-2.4	-1.8	-1.6	-1.1	-0.4	-0.9	-0.3	-0.1
	3H	-1.4	-0.8	-1.2	-0.6	-0.4	0.3	0.9	0.5	1.1	1.3
	4H	-0.9	-0.3	-0.6	-0.1	0.1	0.7	1.4	1.0	1.6	1.8
	6H	-0.5	0.1	-0.2	0.3	0.6	0.8	1.4	1.1	1.6	1.8
	8H	-0.3	0.3	0.0	0.5	0.8	0.7	1.3	1.0	1.6	1.8
	12H	-0.1	0.5	0.2	0.7	1.0	0.7	1.2	1.0	1.5	1.8
4H	2H	-2.2	-1.6	-2.0	-1.4	-1.2	-0.9	-0.3	-0.7	-0.1	0.1
	3H	-1.0	-0.4	-0.7	-0.2	0.1	0.6	1.2	0.9	1.4	1.7
	4H	-0.4	0.1	-0.1	0.4	0.7	1.2	1.7	1.6	2.0	2.3
	6H	0.1	0.5	0.4	0.8	1.2	1.3	1.7	1.7	2.1	2.4
	8H	0.3	0.7	0.7	1.1	1.4	1.2	1.6	1.6	2.0	2.3
	12H	0.5	0.9	0.9	1.3	1.7	1.2	1.6	1.6	1.9	2.3
8H	4H	-0.2	0.2	0.2	0.6	0.9	1.3	1.7	1.7	2.0	2.4
	6H	0.4	0.8	0.8	1.1	1.6	1.4	1.7	1.8	2.1	2.5
	8H	0.7	1.0	1.2	1.5	1.9	1.3	1.6	1.8	2.0	2.5
	12H	1.0	1.3	1.5	1.7	2.2	1.3	1.5	1.7	2.0	2.4
12H	4H	-0.2	0.1	0.2	0.5	0.9	1.3	1.6	1.7	2.0	2.4
	6H	0.4	0.7	0.8	1.1	1.5	1.4	1.7	1.8	2.1	2.5
	8H	0.7	1.0	1.2	1.4	1.9	1.3	1.6	1.8	2.0	2.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.8 / - 0.5					
1.5H	+ 0.5 / - 0.8					+ 1.9 / - 0.7					
2.0H	+ 1.2 / - 1.5					+ 0.8 / - 1.3					

CIE Pub.117, 1584 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.1 m2

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

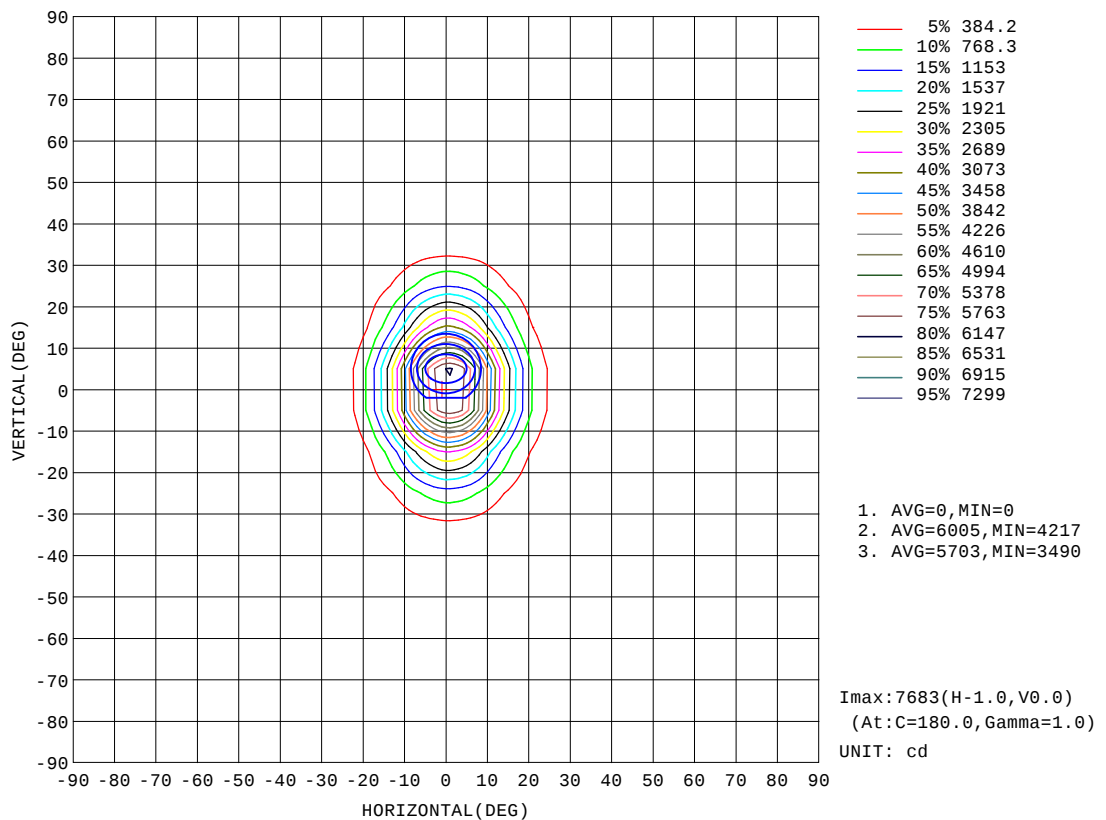
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	80	89	83	80	88	83	80	76
0.80	96	91	88	96	91	87	95	90	87	84
1.00	100	95	92	100	95	91	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	101	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	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:2026-08-10

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:7.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



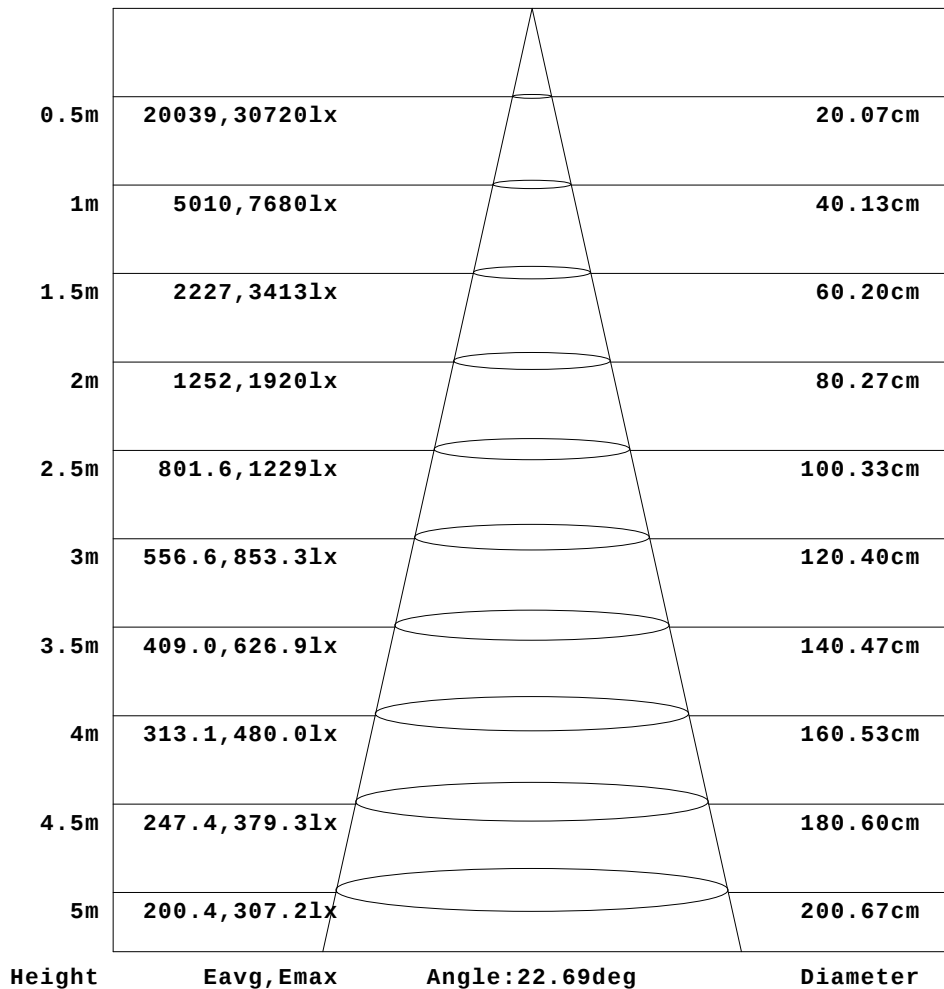
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

Flux out:651.5 lm



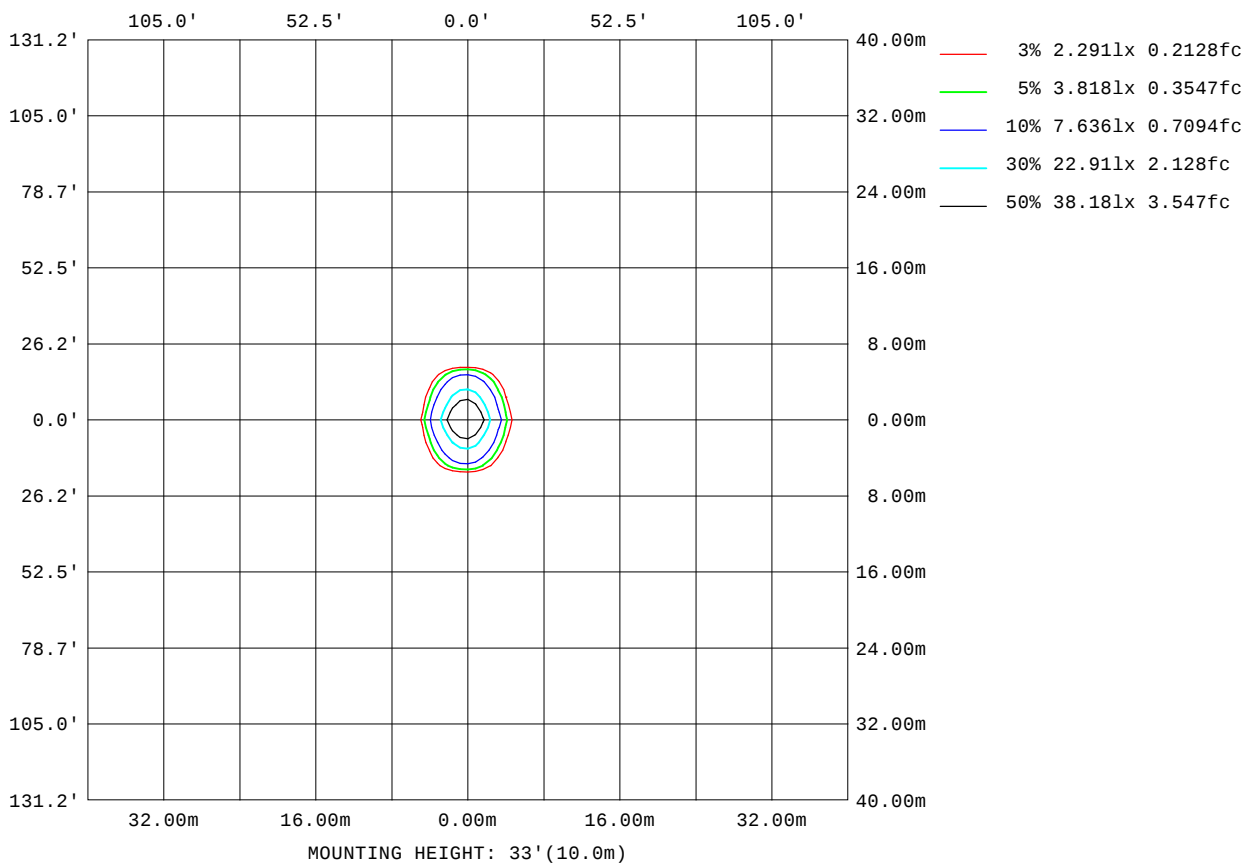
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.32V I:0.1645A P:16.560W PF:0.4570 Freq:50.00Hz Lamp Flux:1583.92x1 lm		
NAME: 6810-18W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

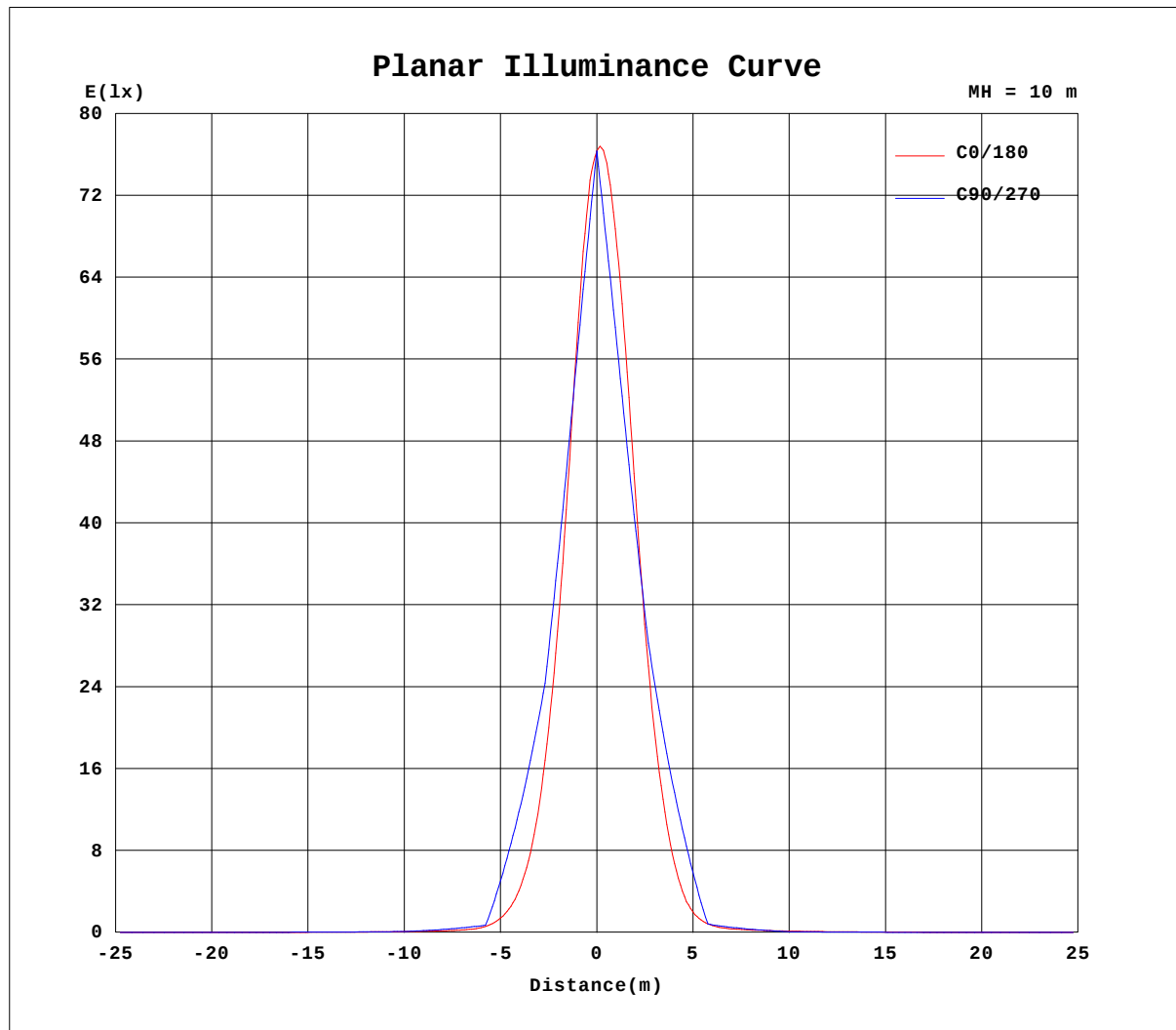
AvgL	cd/m2
L_0~180(65)av	347
L_0~180(75)av	311
L_0~180(85)av	404
L_90~270(65)av	322
L_90~270(75)av	263
L_90~270(85)av	0
L_45(65)av	232
L_45(75)av	229
L_45(85)av	0

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-10

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:7.900m [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: 2026-08-10

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: 7.900m [K=1.0000]
Remarks:

