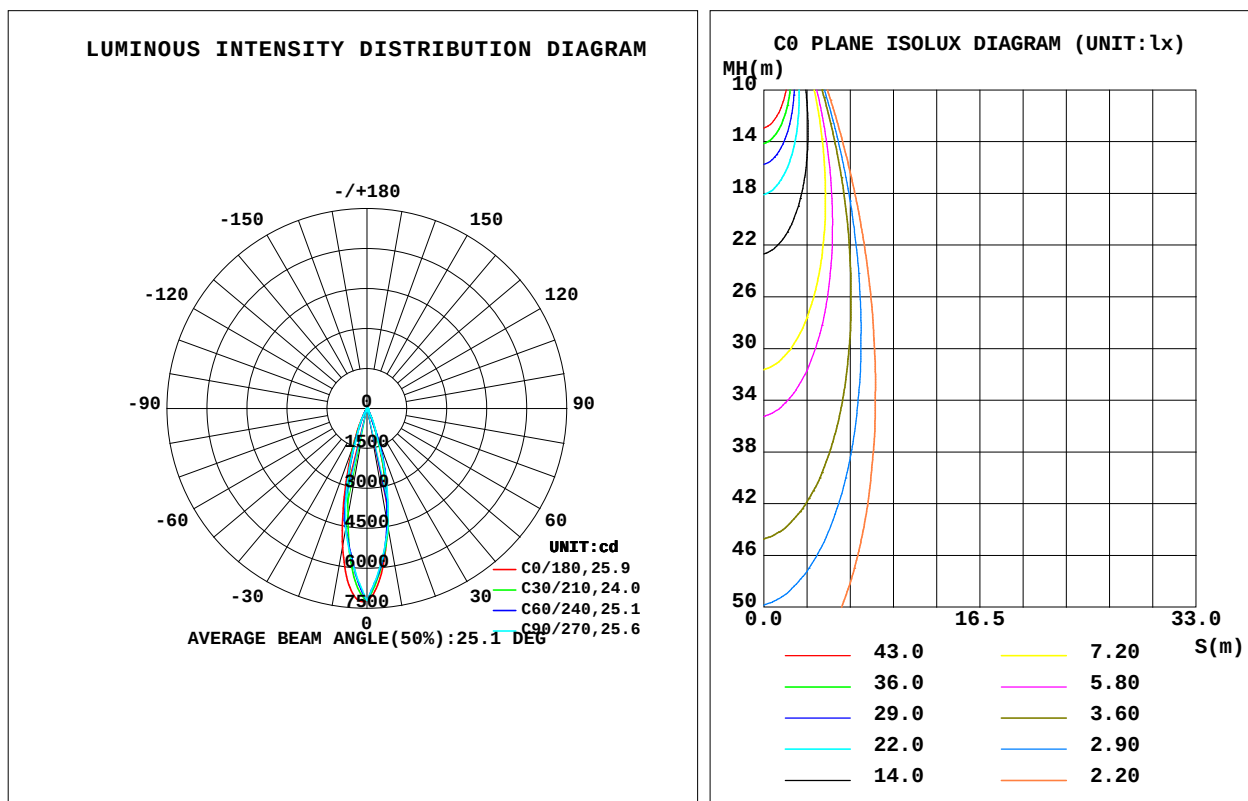


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.54 lm/W			
MODEL		I _{max} (cd)	7246	S/MH(C0/180)	0.47
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	1638.5	h UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	1638.48	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,50.3
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:2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.100m [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	4376	4383	4544	4329	5289	4372	4611	4419	0- 10	528.0	528.0	32.2, 32.2
20	1095	1423	1040	1299	1630	1270	1080	1450	10- 20	739.2	1267	77.3, 77.3
30	116.6	145.6	115.8	200.5	248.7	185.6	112.3	142.3	20- 30	254.5	1522	92.9, 92.9
40	39.40	33.24	41.00	39.67	56.00	40.95	38.34	35.22	30- 40	49.16	1571	95.9, 95.9
50	25.84	19.85	29.25	21.88	31.27	21.22	24.38	19.83	40- 50	23.47	1594	97.3, 97.3
60	18.11	14.80	21.58	17.19	21.84	15.77	17.95	14.56	50- 60	18.40	1613	98.4, 98.4
70	11.71	10.46	12.94	12.14	13.80	10.99	11.89	10.48	60- 70	13.95	1627	99.3, 99.3
80	7.413	5.523	5.655	5.935	7.940	6.979	7.169	6.860	70- 80	9.035	1636	99.8, 99.8
90	4.475	0	0	0	3.916	0	0	0	80- 90	2.847	1638	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): 1583.6 lm

%lum = 96.6%

%lamp = 96.6%

Conical surface Flux(120deg): 1612.6 lm

%lum = 98.4%

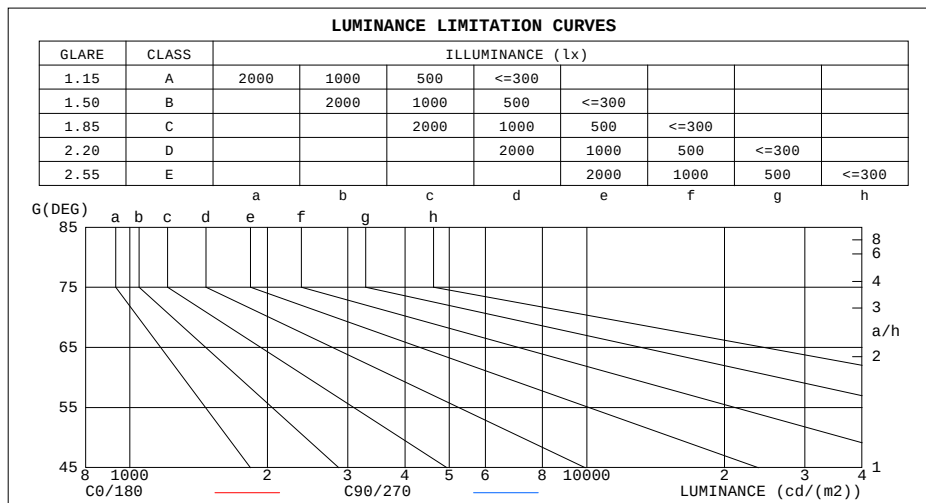
%lamp = 98.4%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-31

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.100m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	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	569	0
80	427	326
75	360	360
70	342	378
65	345	411
60	362	432
55	383	445
50	402	455
45	417	499

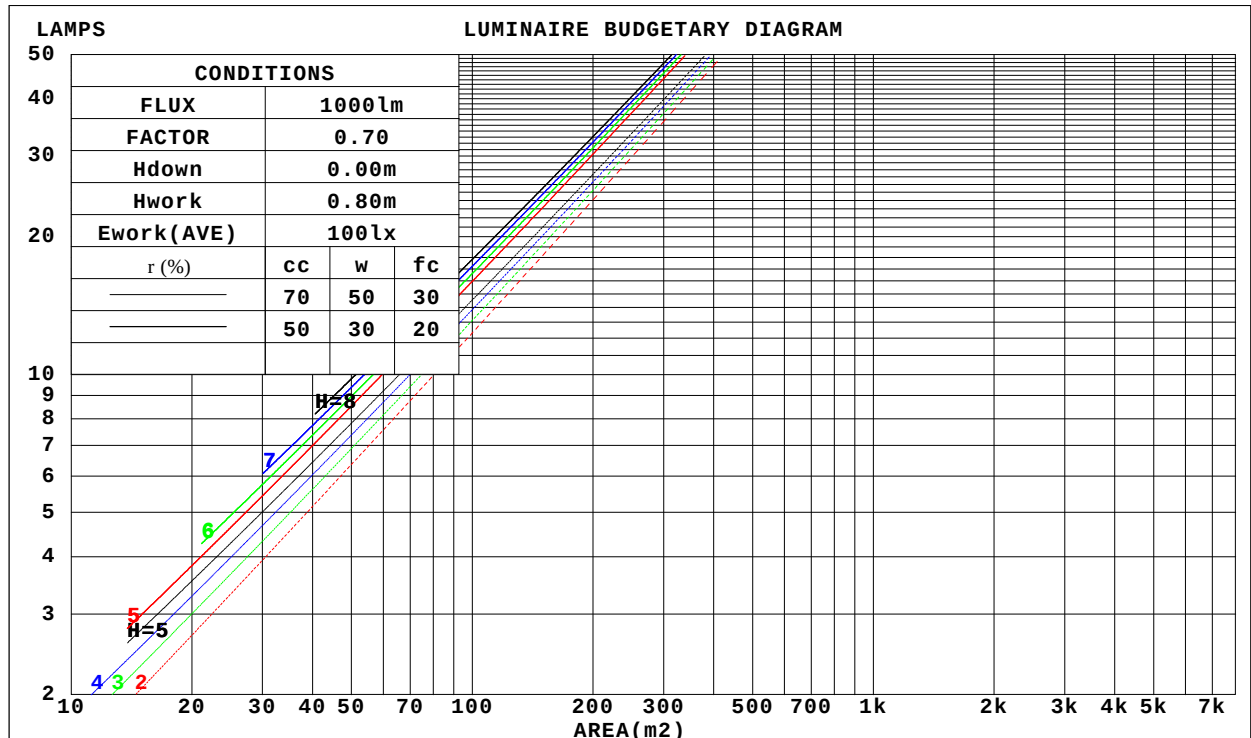
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.00	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.96	.93	.91	.93	.92	.90	.88
4.0	.97	.93	.90	.96	.93	.90	.94	.91	.89	.93	.90	.88	.91	.88	.87	.85
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.82
6.0	.90	.86	.83	.90	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.82	.79	.85	.82	.79	.84	.81	.79	.83	.81	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.77	.75	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.72	.71



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm								
NAME: 6810				TYPE:18W-4000K			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			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.147	.084	.027	.141	.080	.025	.128	.073	.023	.117	.067	.022	.106	.061	.020	
2.0	.136	.075	.023	.131	.072	.022	.120	.067	.021	.111	.062	.019	.102	.058	.018	
3.0	.127	.067	.020	.122	.065	.020	.113	.061	.019	.105	.058	.018	.098	.054	.017	
4.0	.118	.061	.018	.114	.060	.018	.107	.057	.017	.100	.054	.016	.094	.051	.016	
5.0	.111	.057	.016	.108	.055	.016	.102	.053	.016	.096	.051	.015	.090	.048	.015	
6.0	.105	.053	.015	.102	.052	.015	.097	.050	.014	.092	.048	.014	.087	.046	.014	
7.0	.099	.049	.014	.097	.048	.014	.092	.047	.013	.088	.045	.013	.084	.043	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.084	.043	.012	.081	.041	.012	
9.0	.090	.044	.012	.088	.043	.012	.085	.042	.012	.081	.041	.012	.078	.040	.011	
10.0	.086	.041	.011	.085	.041	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011	

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	.016	
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.078	.107	.085	.068	.074	.059	.048	.043	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.091	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.079	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.055	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.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: 2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm											
NAME: 6810					TYPE:18W-4000K			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		-1.5	-0.8	-1.2	-0.6	-0.5	-0.3	0.4	-0.1	0.5	0.7
	3H	-0.1	0.5	0.1	0.7	0.9	1.2	1.9	1.5	2.1	2.3
	4H	0.6	1.2	0.8	1.4	1.6	1.9	2.5	2.1	2.7	2.9
	6H	1.2	1.8	1.5	2.0	2.3	2.4	2.9	2.6	3.2	3.4
	8H	1.6	2.1	1.8	2.4	2.6	2.5	3.0	2.8	3.3	3.5
	12H	1.9	2.4	2.2	2.7	3.0	2.4	3.0	2.7	3.2	3.5
4H	2H	-0.9	-0.3	-0.7	-0.1	0.1	0.0	0.7	0.3	0.9	1.1
	3H	0.5	1.1	0.8	1.3	1.6	1.8	2.4	2.1	2.6	2.9
	4H	1.3	1.8	1.6	2.1	2.4	2.6	3.1	2.9	3.4	3.7
	6H	2.0	2.4	2.4	2.8	3.1	3.2	3.7	3.6	4.0	4.3
	8H	2.3	2.8	2.7	3.1	3.5	3.4	3.8	3.7	4.1	4.5
	12H	2.7	3.1	3.1	3.5	3.9	3.3	3.7	3.7	4.1	4.5
8H	4H	1.6	2.0	2.0	2.4	2.7	2.8	3.2	3.2	3.6	3.9
	6H	2.5	2.9	2.9	3.2	3.7	3.6	3.9	4.0	4.3	4.7
	8H	3.0	3.3	3.4	3.7	4.1	3.7	4.1	4.2	4.5	4.9
	12H	3.5	3.7	3.9	4.2	4.7	3.7	4.0	4.2	4.4	4.9
12H	4H	1.7	2.0	2.1	2.4	2.8	2.8	3.2	3.2	3.5	3.9
	6H	2.6	2.9	3.0	3.3	3.8	3.6	3.9	4.1	4.3	4.8
	8H	3.1	3.4	3.6	3.8	4.3	3.8	4.1	4.3	4.5	5.0
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2				+ 0.2 / - 0.2					
1.5H		+ 0.4 / - 0.5				+ 0.5 / - 0.2					
2.0H		+ 0.7 / - 1.0				+ 0.3 / - 0.5					

CIE Pub.117, 1638 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)
Area: 0.1 m2

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

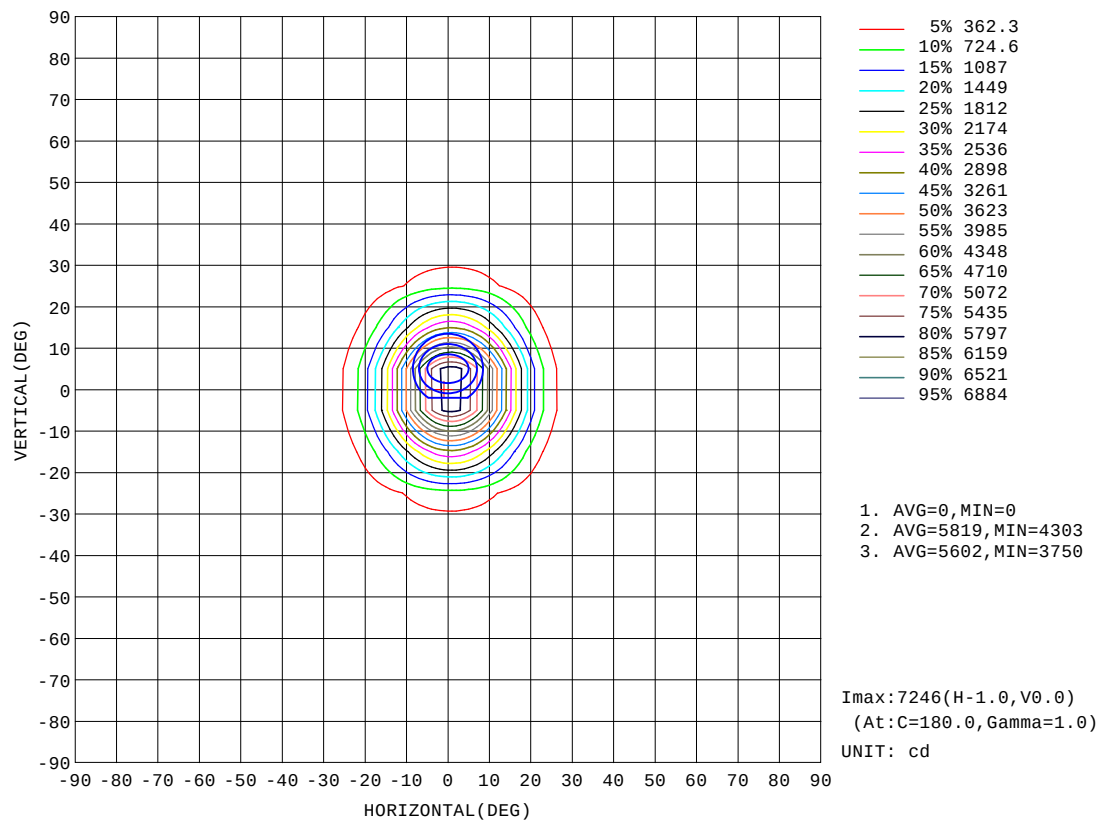
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	79	89	83	79	88	82	79	76
0.80	96	91	87	95	90	87	94	90	87	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	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:2026-08-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



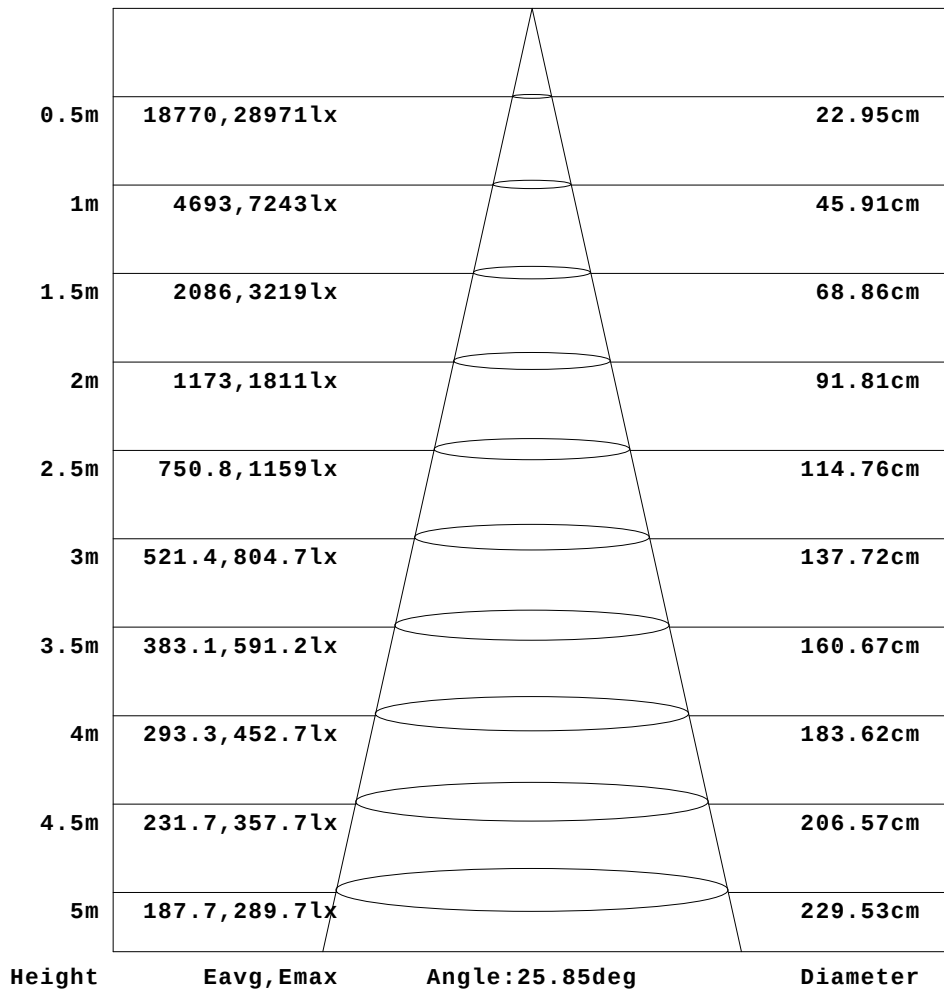
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

AAI Figure

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

Flux out:785.8 lm



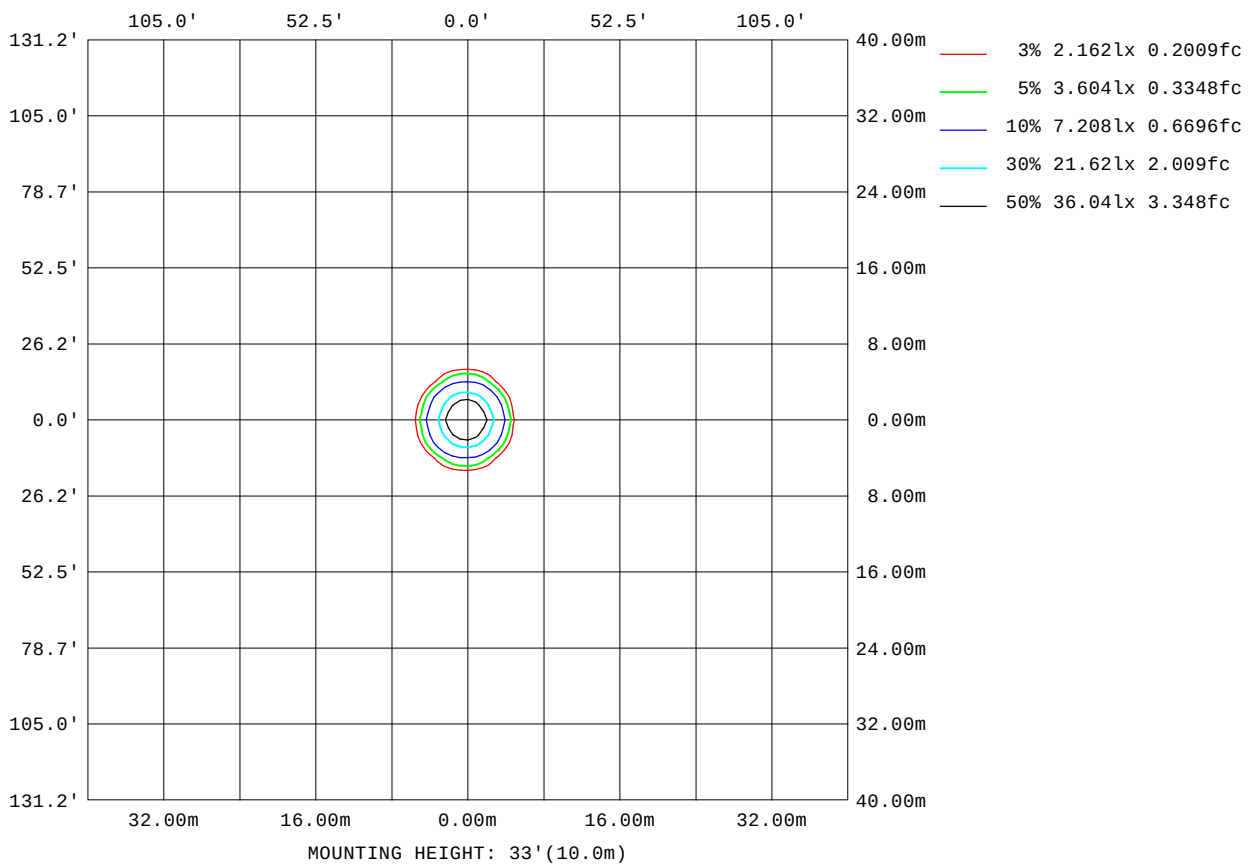
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	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: 2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:150.13V I:0.2399A P:18.933W PF:0.5256 Freq:50.00Hz Lamp Flux:1638.48x1 lm		
NAME: 6810	TYPE:18W-4000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

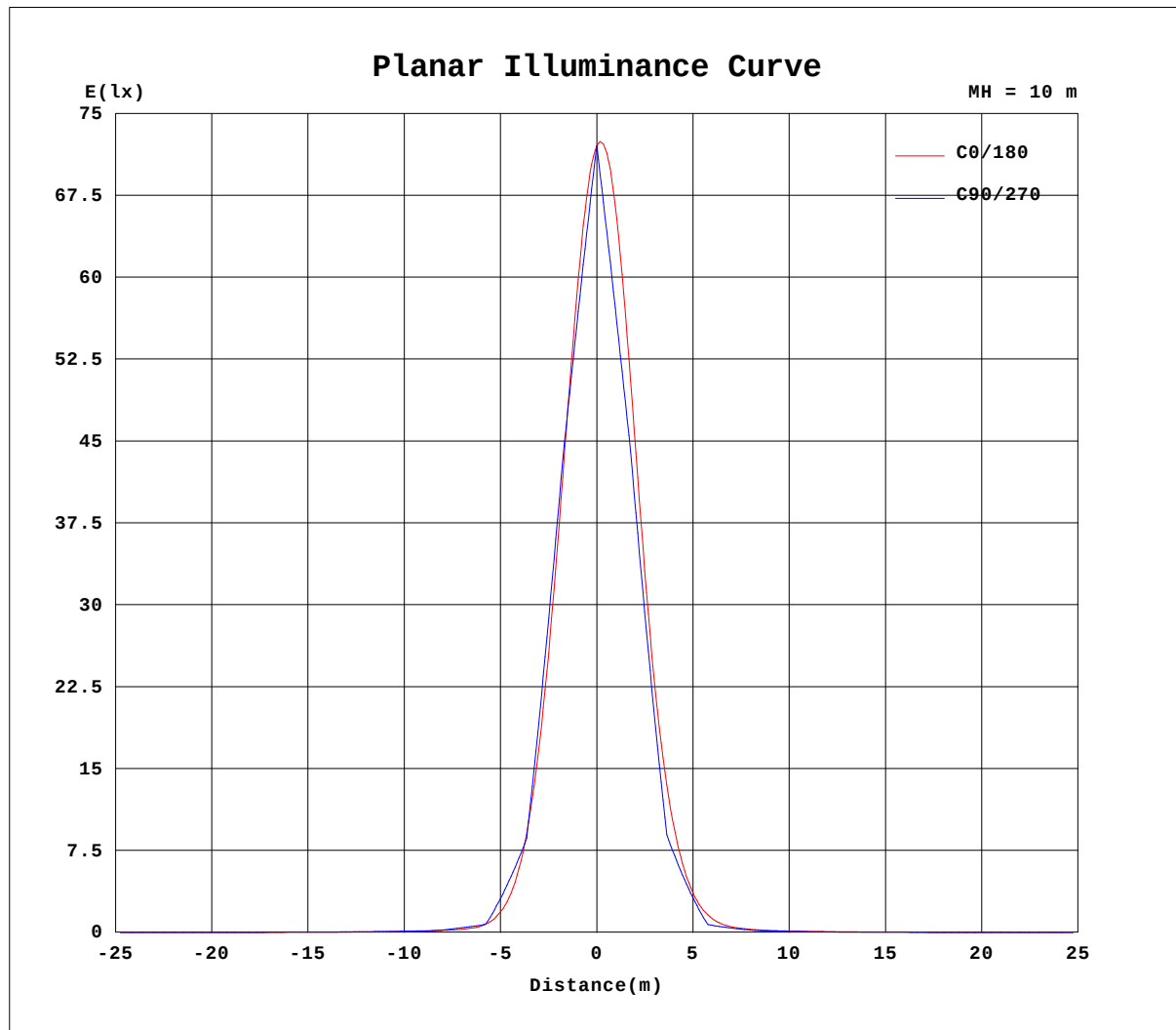
AvgL	cd/m2
L_0~180(65)av	380
L_0~180(75)av	385
L_0~180(85)av	613
L_90~270(65)av	382
L_90~270(75)av	364
L_90~270(85)av	0
L_45(65)av	314
L_45(75)av	337
L_45(85)av	233

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.100m [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: 2026-08-31

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

