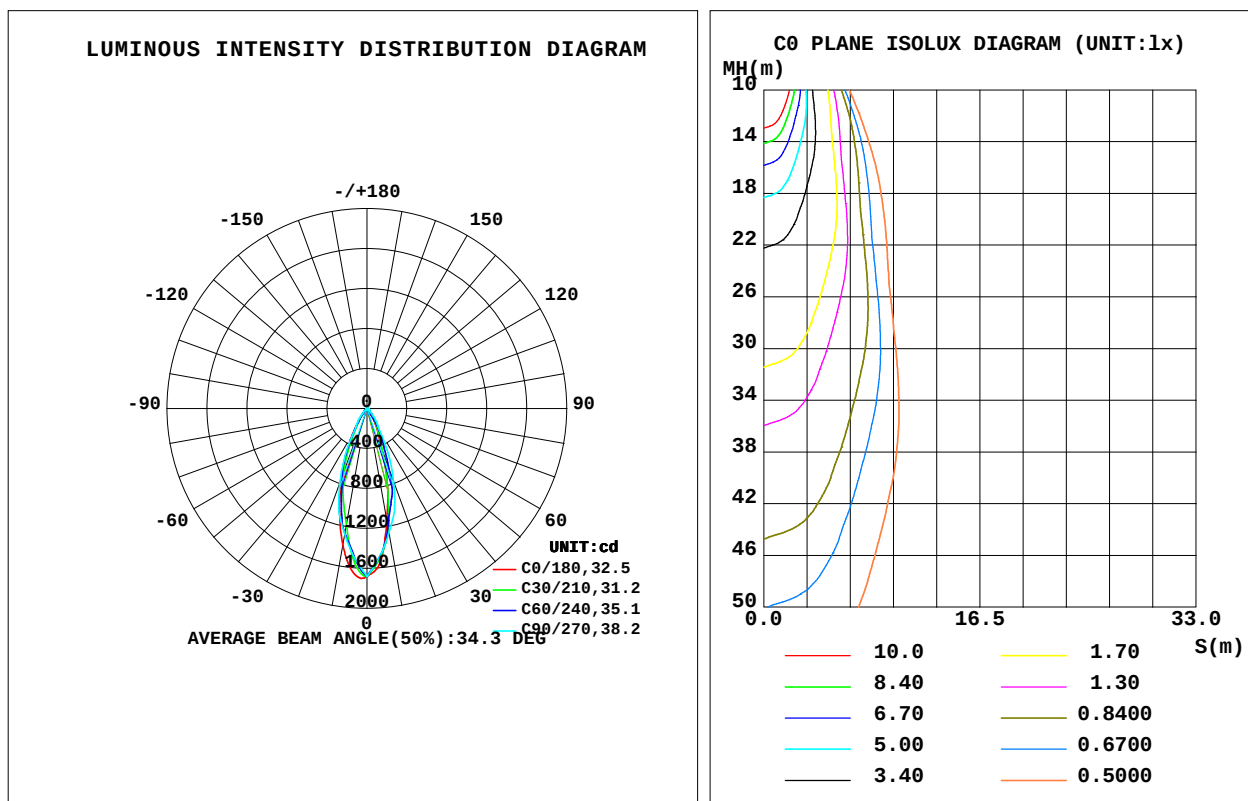


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.54 lm/W			
MODEL		I _{max} (cd)	1701	S/MH(C0/180)	0.60
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.62
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	693.66	h UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	693.661	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	100.0	CIBSE SHR MAX	0.60



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-07-30

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:7.500m [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	1148	1206	1265	1217	1391	1227	1280	1215	0- 10	135.3	135.3	19.5, 19.5
20	434.2	597.9	784.2	646.1	745.1	669.2	796.9	597.7	10- 20	257.1	392.4	56.6, 56.6
30	145.3	169.2	239.3	262.3	273.5	273.3	233.3	164.4	20- 30	185.2	577.7	83.3, 83.3
40	32.21	33.70	96.49	57.12	69.16	61.62	90.46	30.47	30- 40	71.86	649.5	93.6, 93.6
50	9.860	12.79	20.52	21.42	19.71	20.17	15.78	11.11	40- 50	21.79	671.3	96.8, 96.8
60	7.037	7.012	11.40	11.34	13.37	10.07	9.296	6.242	50- 60	10.23	681.5	98.3, 98.3
70	4.800	4.639	7.379	6.373	8.234	5.515	6.416	4.217	60- 70	7.386	688.9	99.3, 99.3
80	2.209	2.169	0	2.071	3.002	2.096	0	2.310	70- 80	4.122	693.1	99.9, 99.9
90	2.065	0	0	0	2.094	0	0	0	80- 90	0.6049	693.7	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): 664.22 lm

%lum = 95.8%

%lamp = 95.8%

Conical surface Flux(120deg): 681.55 lm

%lum = 98.3%

%lamp = 98.3%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-07-30

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:7.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	242	0
80	127	0
75	118	211
70	140	216
65	139	225
60	141	228
55	148	279
50	153	319
45	202	352

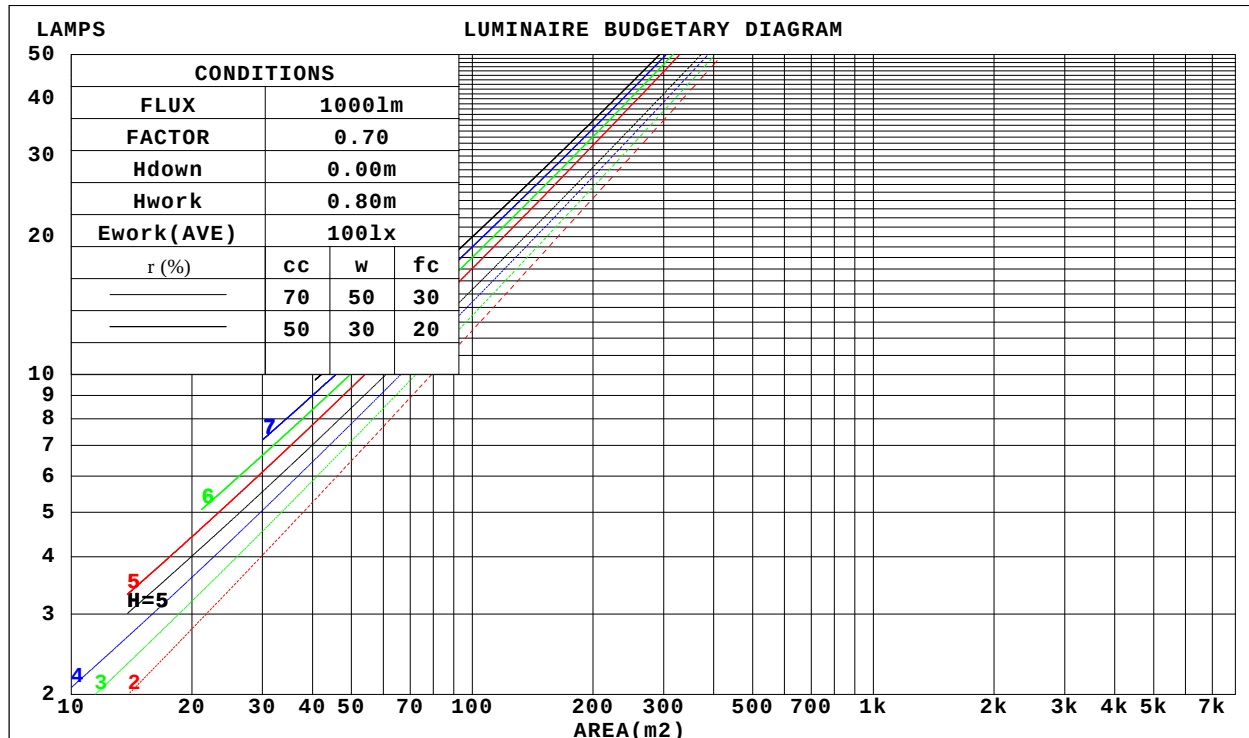
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.99	.97	.90	.97	.95	.97	.94	.93	.94	.92	.91	.89
3.0	.98	.94	.90	.97	.93	.90	.95	.91	.88	.92	.89	.87	.90	.88	.86	.84
4.0	.93	.88	.84	.92	.87	.84	.90	.86	.83	.88	.85	.82	.86	.83	.81	.80
5.0	.88	.83	.79	.87	.83	.79	.86	.81	.78	.84	.80	.78	.83	.79	.77	.76
6.0	.84	.79	.75	.83	.78	.75	.82	.77	.74	.80	.77	.74	.79	.76	.73	.72
7.0	.80	.75	.71	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.72	.70	.69
8.0	.76	.71	.68	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.65
9.0	.73	.68	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.68	.64	.61	.60



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

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	.166	.094	.030	.159	.091	.029	.147	.084	.027	.135	.078	.025	.125	.072	.023	
2.0	.157	.086	.026	.151	.083	.026	.141	.078	.024	.131	.073	.023	.122	.069	.022	
3.0	.148	.079	.024	.143	.076	.023	.134	.073	.022	.126	.069	.021	.118	.065	.020	
4.0	.139	.072	.021	.135	.071	.021	.128	.068	.020	.121	.065	.020	.114	.062	.019	
5.0	.132	.067	.019	.128	.066	.019	.122	.063	.019	.116	.061	.018	.110	.059	.018	
6.0	.125	.063	.018	.122	.062	.018	.116	.060	.017	.111	.058	.017	.106	.056	.017	
7.0	.119	.059	.017	.116	.058	.017	.111	.056	.016	.107	.055	.016	.102	.053	.016	
8.0	.114	.056	.016	.111	.055	.015	.107	.053	.015	.103	.052	.015	.099	.051	.015	
9.0	.109	.053	.015	.107	.052	.015	.103	.051	.014	.099	.050	.014	.095	.048	.014	
10.0	.104	.050	.014	.102	.049	.014	.099	.048	.014	.095	.047	.013	.092	.046	.013	

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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.075	.111	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.097	.067	.045	.067	.047	.032	.039	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.091	.060	.038	.063	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.055	.033	.059	.038	.023	.034	.023	.014	.011	.007	.005	
9.0	.094	.058	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm											
NAME: 6809-8W-4000K						TYPE:室内			WEIGHT:		
SPEC.:						DIM.: 72*72*82mm			SERIAL No.:01		
MFR.: NORDECOR						SUR.:			Shielding Angle:35°		
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	2.0	2.9	2.2	3.0	3.2	5.2	6.1	5.5	6.2	6.4
	3H	2.5	3.3	2.8	3.5	3.7	5.7	6.5	5.9	6.7	6.9
	4H	2.8	3.5	3.0	3.7	3.9	5.9	6.7	6.2	6.9	7.1
	6H	2.9	3.6	3.2	3.9	4.1	5.9	6.6	6.2	6.9	7.1
	8H	3.1	3.7	3.4	4.0	4.2	5.9	6.6	6.2	6.8	7.1
	12H	3.3	3.9	3.6	4.2	4.4	5.9	6.5	6.2	6.8	7.0
4H	2H	2.1	2.9	2.4	3.1	3.3	5.1	5.9	5.4	6.1	6.3
	3H	2.8	3.4	3.1	3.7	4.0	5.7	6.4	6.0	6.6	6.9
	4H	3.2	3.7	3.5	4.0	4.3	6.1	6.7	6.4	7.0	7.3
	6H	3.4	3.9	3.8	4.2	4.6	6.1	6.6	6.5	7.0	7.3
	8H	3.6	4.1	4.0	4.4	4.8	6.1	6.5	6.4	6.9	7.3
	12H	3.9	4.3	4.3	4.7	5.1	6.0	6.4	6.4	6.8	7.2
8H	4H	3.3	3.8	3.7	4.2	4.5	6.1	6.6	6.5	6.9	7.3
	6H	3.7	4.1	4.1	4.5	4.9	6.1	6.5	6.5	6.9	7.3
	8H	4.0	4.3	4.4	4.8	5.2	6.1	6.4	6.5	6.8	7.3
	12H	4.4	4.7	4.9	5.2	5.6	6.0	6.3	6.5	6.7	7.2
12H	4H	3.3	3.7	3.7	4.1	4.5	6.0	6.5	6.5	6.9	7.2
	6H	3.7	4.0	4.1	4.5	4.9	6.1	6.4	6.5	6.9	7.3
	8H	4.0	4.3	4.4	4.7	5.2	6.0	6.3	6.5	6.8	7.2
Variations with the observer position at spacings:											
S = 1.0H		+ 1.0 / - 1.2					+ 3.1 / - 2.6				
1.5H		+ 2.0 / - 1.0					+ 5.4 / - 2.9				
2.0H		+ 1.3 / - 0.5					+ 1.4 / - 1.3				

CIE Pub.117, 693.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.1 m2

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

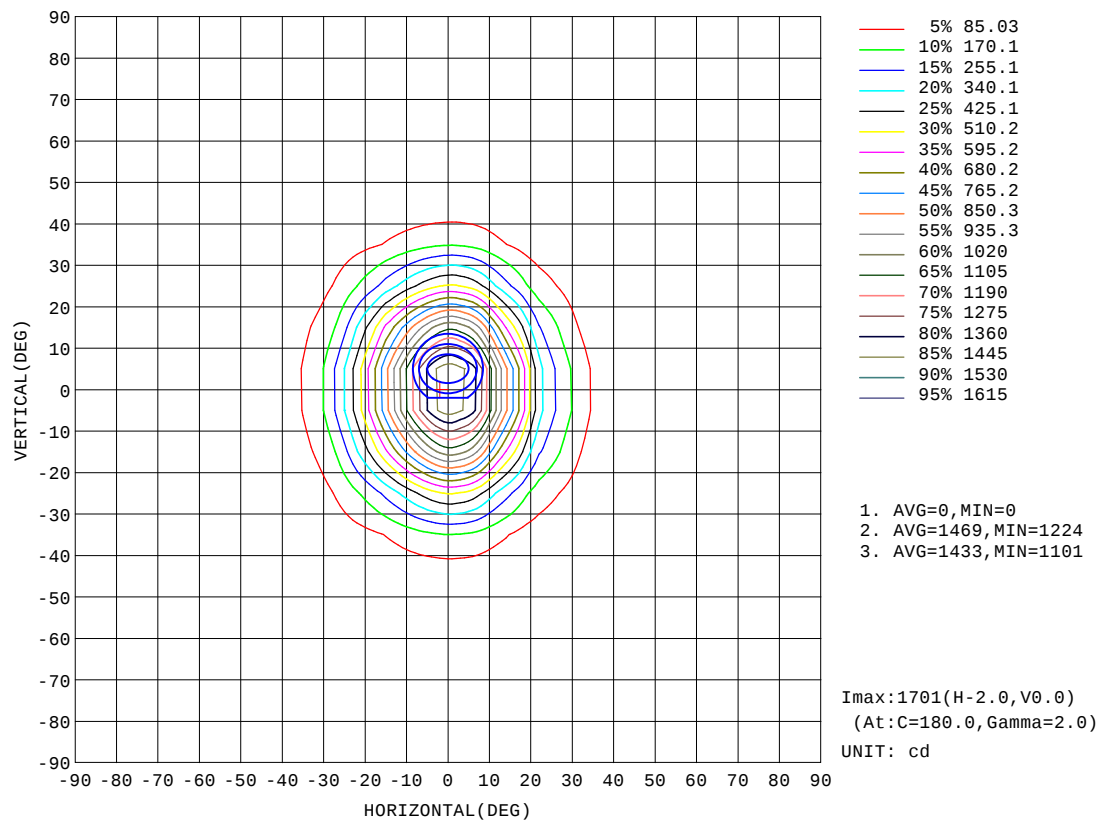
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	81	78	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	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:2026-07-30

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:7.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°



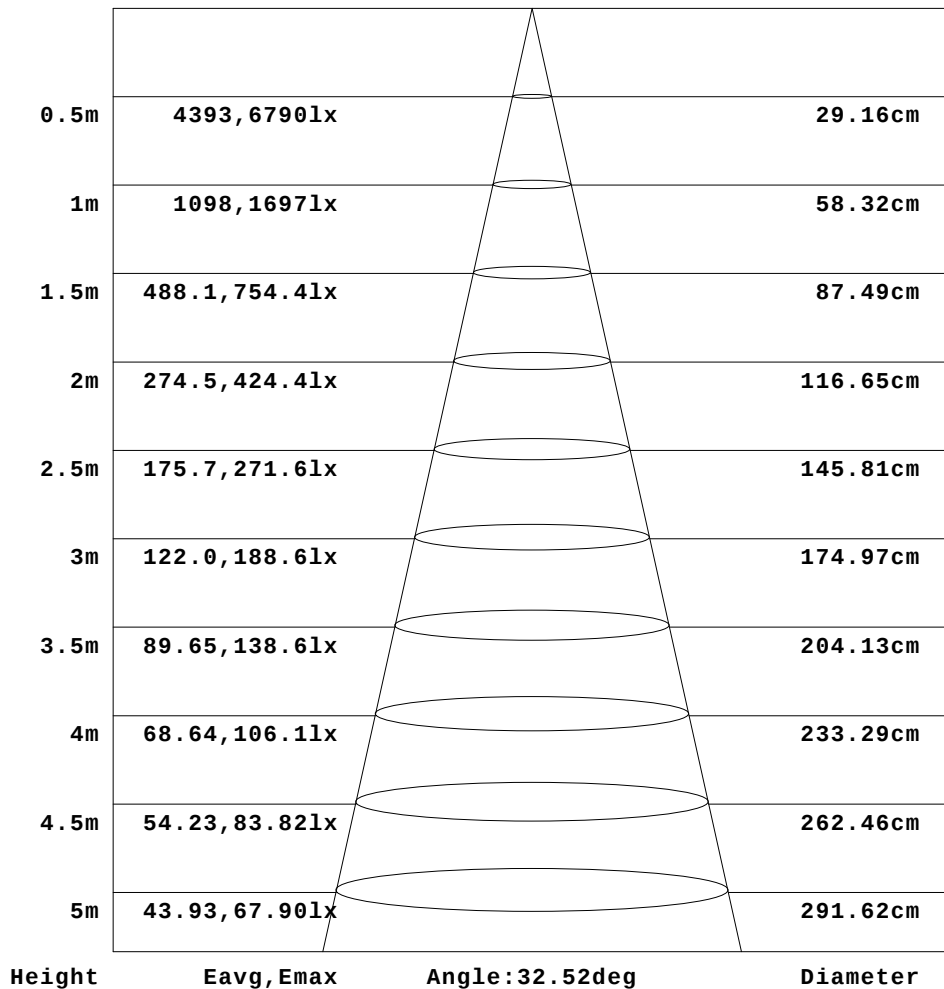
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

Flux out:302.7 lm



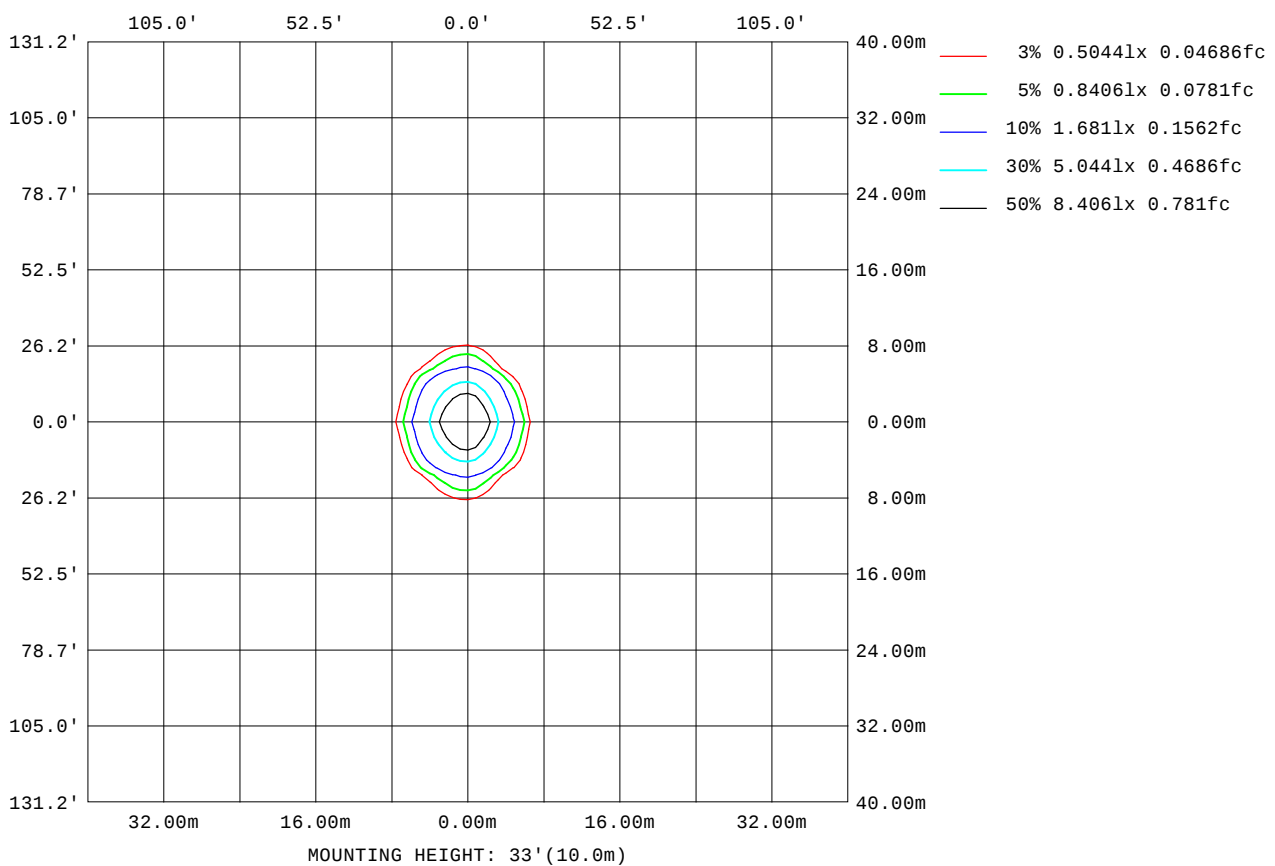
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-07-30

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:7.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.24V I:0.0846A P:8.4043W PF:0.4511 Freq:50.00Hz Lamp Flux:693.661x1 lm		
NAME: 6809-8W-4000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

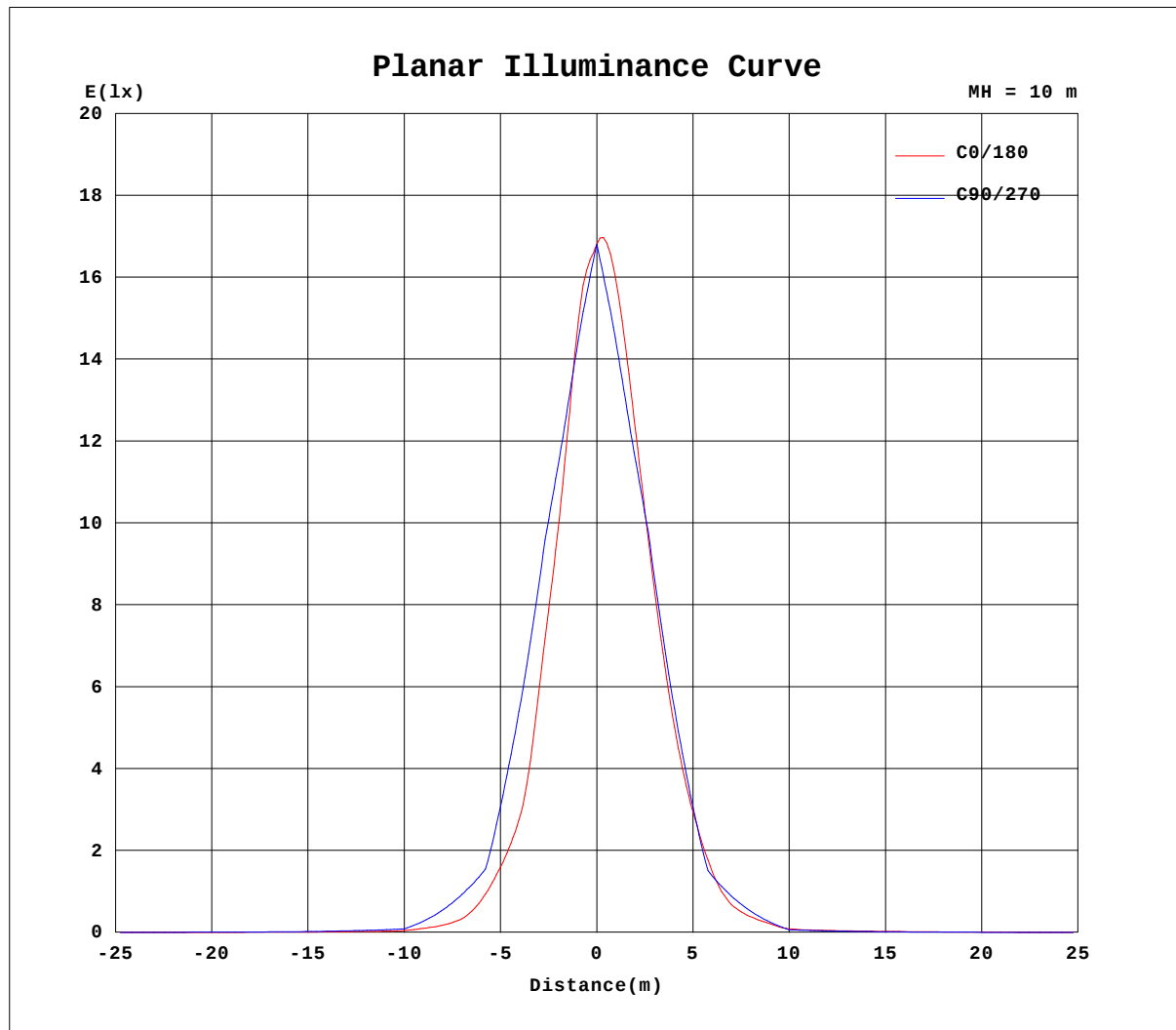
AvgL	cd/m2
L_0~180(65)av	190
L_0~180(75)av	154
L_0~180(85)av	250
L_90~270(65)av	207
L_90~270(75)av	204
L_90~270(85)av	0
L_45(65)av	161
L_45(75)av	147
L_45(85)av	0

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-07-30

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:7.500m [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: 2026-07-30

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: 7.500m [K=1.0000]
Remarks:

