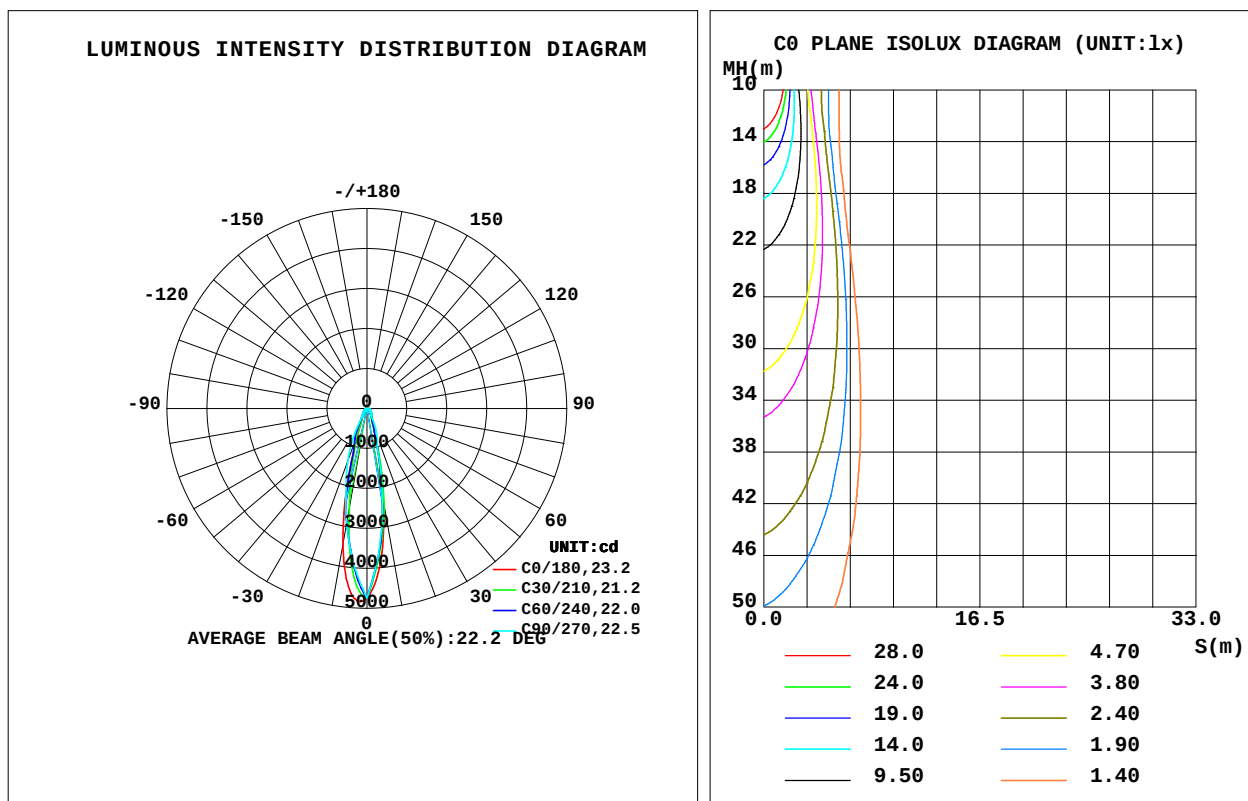


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.77 lm/W			
MODEL		I _{max} (cd)	4833	S/MH(C0/180)	0.42
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	1271.2	h UP, DN(C0-180)	0.0,45.4
NOMINAL FLUX(lm)	1271.25	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,54.6
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:2026-08-15

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	2417	2283	2228	2416	3474	2764	2922	2641	0- 10	327.3	327.3	25.7, 25.7
20	444.6	460.2	716.6	471.7	648.9	622.3	1426	713.8	10- 20	387.6	714.9	56.2, 56.2
30	213.5	212.5	206.5	227.7	245.4	268.1	252.1	244.1	20- 30	191.2	906.1	71.3, 71.3
40	127.6	120.7	139.4	132.3	144.9	148.6	161.6	132.9	30- 40	112.2	1018	80.1, 80.1
50	91.49	86.37	93.52	98.63	100.1	101.1	101.3	90.79	40- 50	87.60	1106	87, 87
60	69.23	63.33	68.89	74.24	76.42	72.27	71.37	65.58	50- 60	73.26	1179	92.8, 92.8
70	40.09	42.33	41.13	45.74	55.12	48.63	46.86	43.97	60- 70	57.18	1236	97.3, 97.3
80	13.29	13.89	0	12.40	24.44	19.13	0	15.91	70- 80	31.67	1268	99.7, 99.7
90	2.619	0	0	0	2.586	0	0	0	80- 90	3.266	1271	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): 1064.5 lm

%lum = 83.7%

%lamp = 83.7%

Conical surface Flux(120deg): 1179.1 lm

%lum = 92.8%

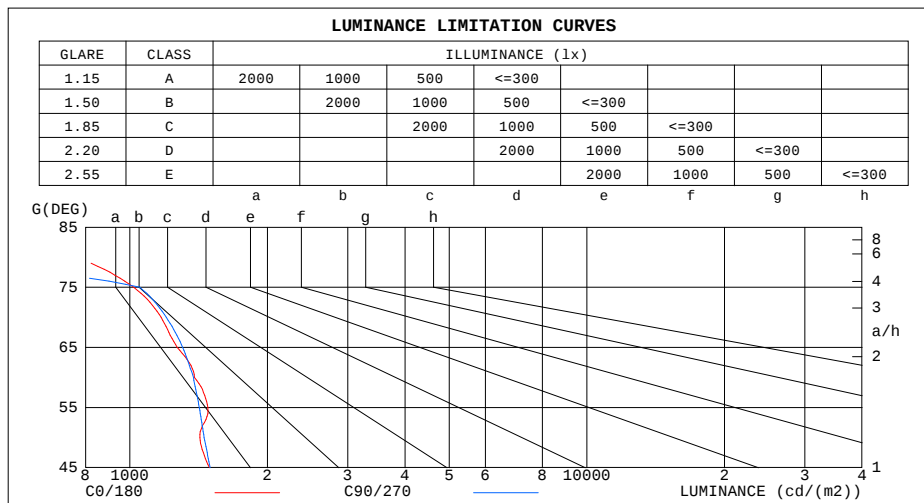
%lamp = 92.8%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



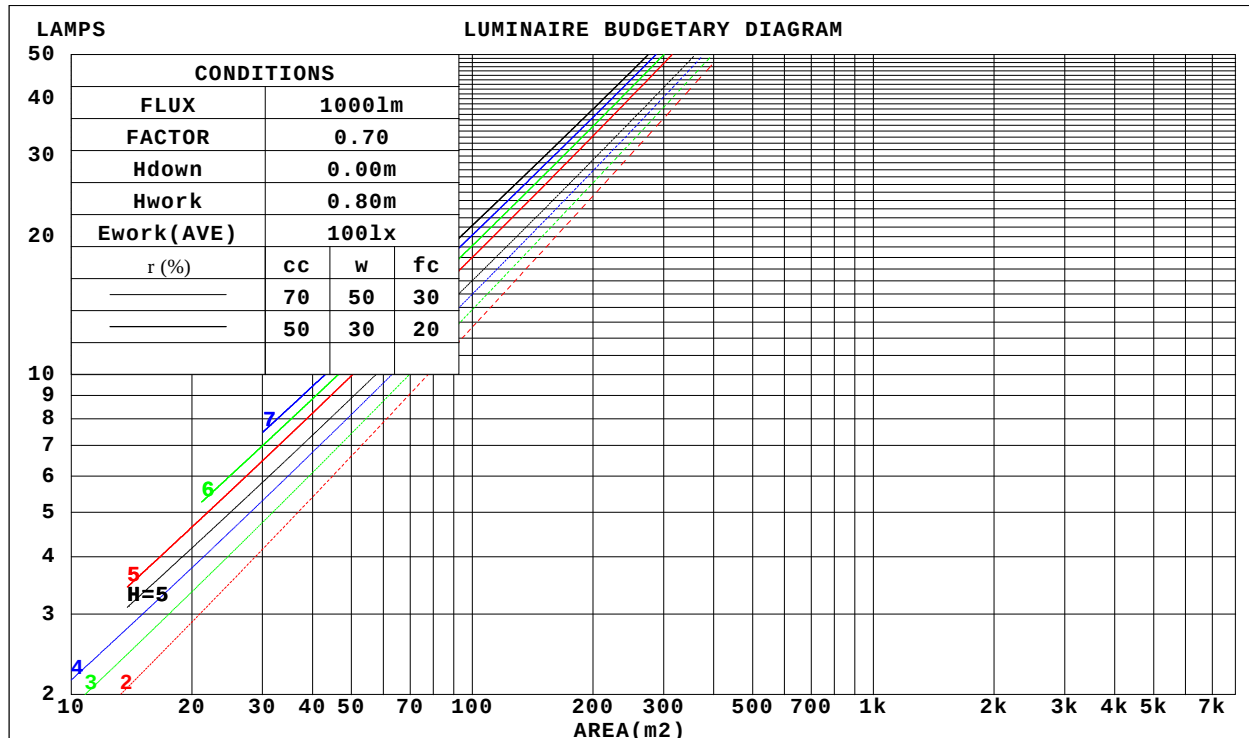
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	1.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.82	.86	.84	.81	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.79	.74	.83	.78	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.76	.71	.67	.76	.70	.66	.74	.70	.66	.73	.69	.66	.72	.68	.65	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.67	.63	.70	.66	.63	.69	.65	.63	.61
9.0	.70	.65	.61	.70	.64	.61	.69	.64	.61	.68	.63	.60	.67	.63	.60	.59
10.0	.67	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.65	.61	.58	.57



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	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	.192	.109	.035	.186	.106	.034	.173	.099	.032	.161	.093	.030	.151	.087	.028	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.155	.087	.027	.146	.083	.026	
3.0	.169	.090	.027	.164	.088	.027	.155	.084	.026	.147	.080	.025	.139	.077	.024	
4.0	.158	.082	.024	.153	.080	.024	.146	.077	.023	.138	.074	.022	.131	.071	.022	
5.0	.147	.075	.022	.143	.074	.021	.137	.071	.021	.130	.069	.020	.124	.066	.020	
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019	.118	.062	.018	
7.0	.129	.064	.018	.127	.063	.018	.121	.061	.018	.117	.060	.017	.112	.058	.017	
8.0	.122	.060	.017	.120	.059	.017	.115	.057	.016	.111	.056	.016	.107	.055	.016	
9.0	.115	.056	.016	.113	.055	.016	.109	.054	.015	.105	.053	.015	.102	.052	.015	
10.0	.110	.053	.015	.108	.052	.015	.104	.051	.014	.101	.050	.014	.097	.049	.014	

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.060	.107	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.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	.083	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.018	.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: 2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm											
NAME: 6851-20W-2700K					TYPE:室内			WEIGHT:			
SPEC.:					DIM.: 137*137*105mm			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	9.8	10.8	10.1	10.9	11.1	9.7	10.7	10.0	10.8	11.0	
	3H	11.3	12.2	11.6	12.4	12.6	11.2	12.1	11.5	12.3	
	4H	11.9	12.7	12.1	12.9	13.1	11.8	12.6	12.0	12.8	
	6H	12.2	12.9	12.5	13.2	13.4	11.8	12.6	12.1	12.8	
	8H	12.2	13.0	12.5	13.2	13.5	11.8	12.5	12.1	12.8	
	12H	12.2	12.9	12.5	13.2	13.5	11.7	12.4	12.0	12.7	
4H	2H	10.4	11.2	10.7	11.5	11.7	10.4	11.2	10.6	11.4	
	3H	12.1	12.8	12.4	13.1	13.4	12.0	12.7	12.3	13.0	
	4H	12.7	13.4	13.1	13.7	14.0	12.7	13.3	13.0	13.6	
	6H	13.1	13.7	13.5	14.1	14.4	12.7	13.3	13.1	13.7	
	8H	13.2	13.8	13.6	14.1	14.5	12.7	13.3	13.1	13.6	
	12H	13.2	13.7	13.6	14.1	14.5	12.6	13.2	13.1	13.5	
8H	4H	13.0	13.5	13.4	13.9	14.3	12.9	13.5	13.3	13.8	
	6H	13.5	13.9	13.9	14.3	14.8	13.0	13.5	13.4	13.9	
	8H	13.6	14.0	14.1	14.4	14.9	13.0	13.4	13.4	13.8	
	12H	13.7	14.0	14.1	14.5	14.9	12.9	13.3	13.4	13.7	
12H	4H	12.9	13.4	13.4	13.8	14.2	12.9	13.4	13.3	13.8	
	6H	13.5	13.9	13.9	14.3	14.7	13.0	13.4	13.5	13.8	
	8H	13.6	13.9	14.1	14.4	14.9	13.0	13.3	13.4	13.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.2					
2.0H	+ 0.6 / - 0.6					+ 0.3 / - 0.5					

CIE Pub.117, 1271 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.8)
Area: 0.1 m2

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

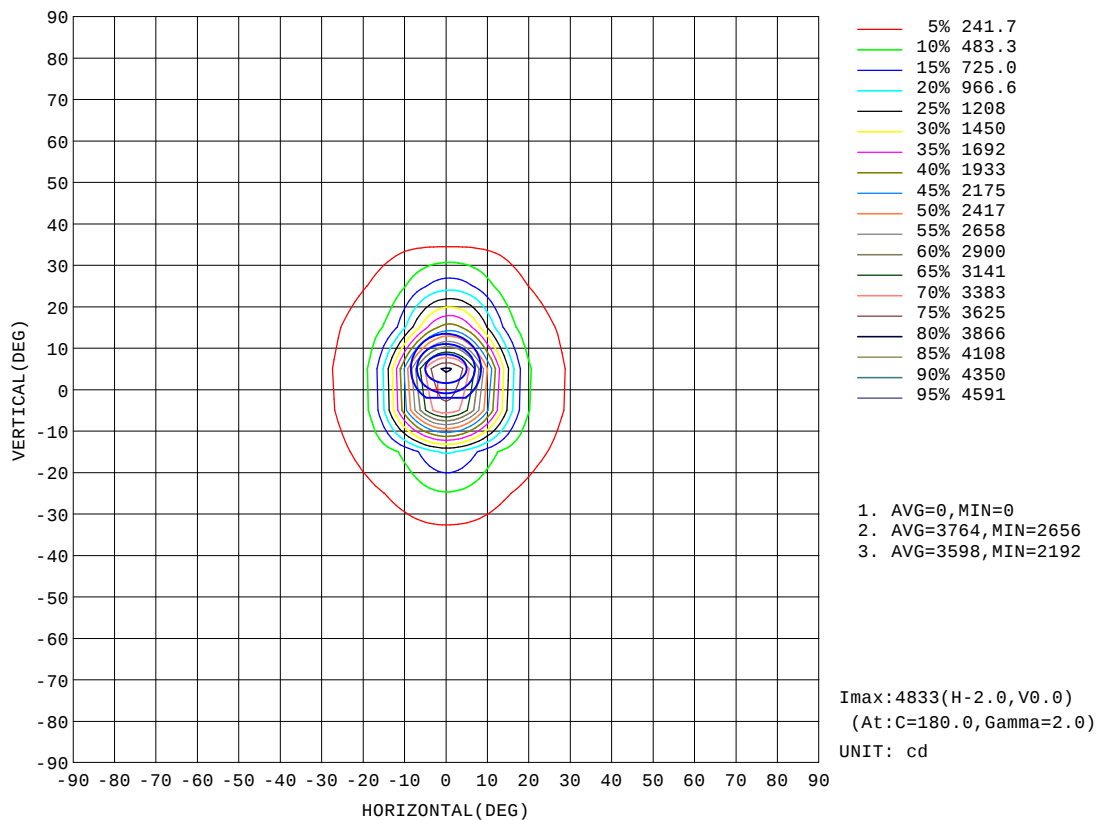
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	79	72	67	79	71	67	78	71	67	62
0.80	87	80	75	87	80	75	85	79	75	70
1.00	93	86	81	92	85	81	90	85	80	75
1.25	98	91	86	96	90	86	94	89	85	80
1.50	101	95	90	100	94	90	97	92	89	84
2.00	105	99	95	103	98	94	100	96	93	87
2.50	107	102	98	105	101	97	102	98	96	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	110	107	104	106	103	101	94
5.00	113	110	108	111	109	106	107	105	103	95
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:2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

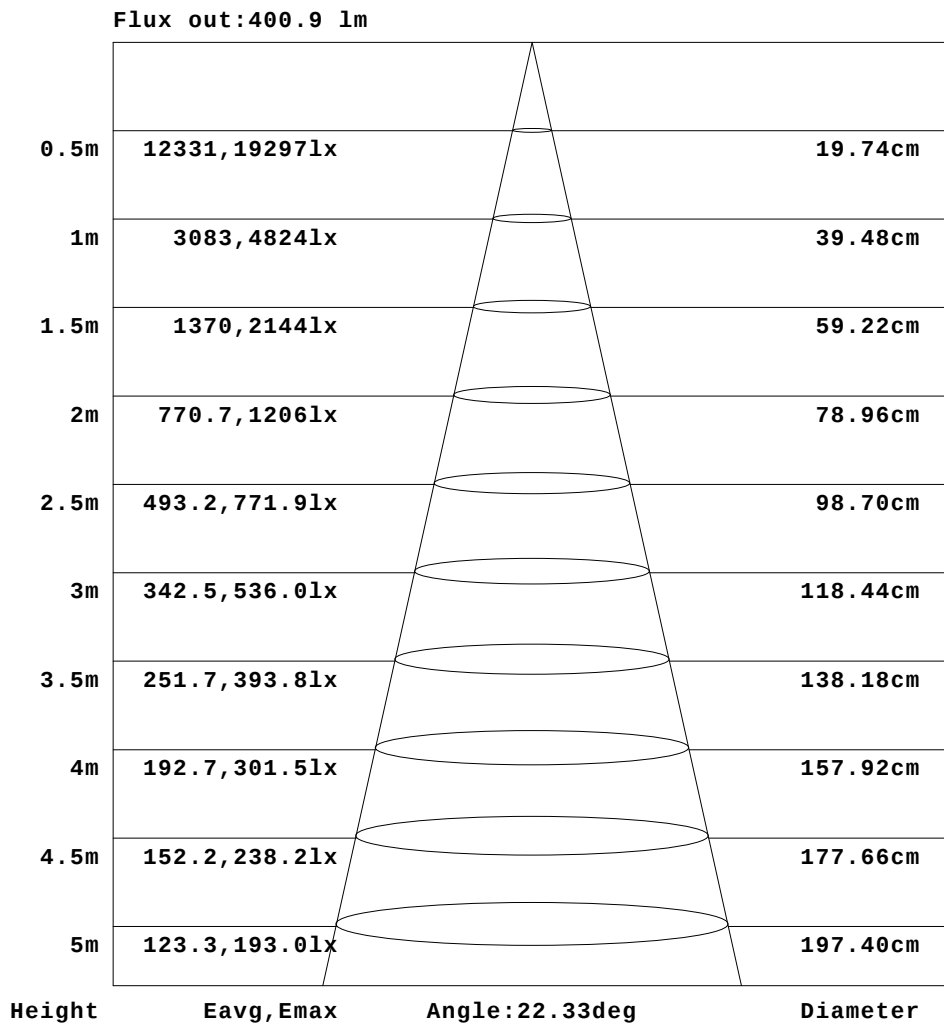


H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



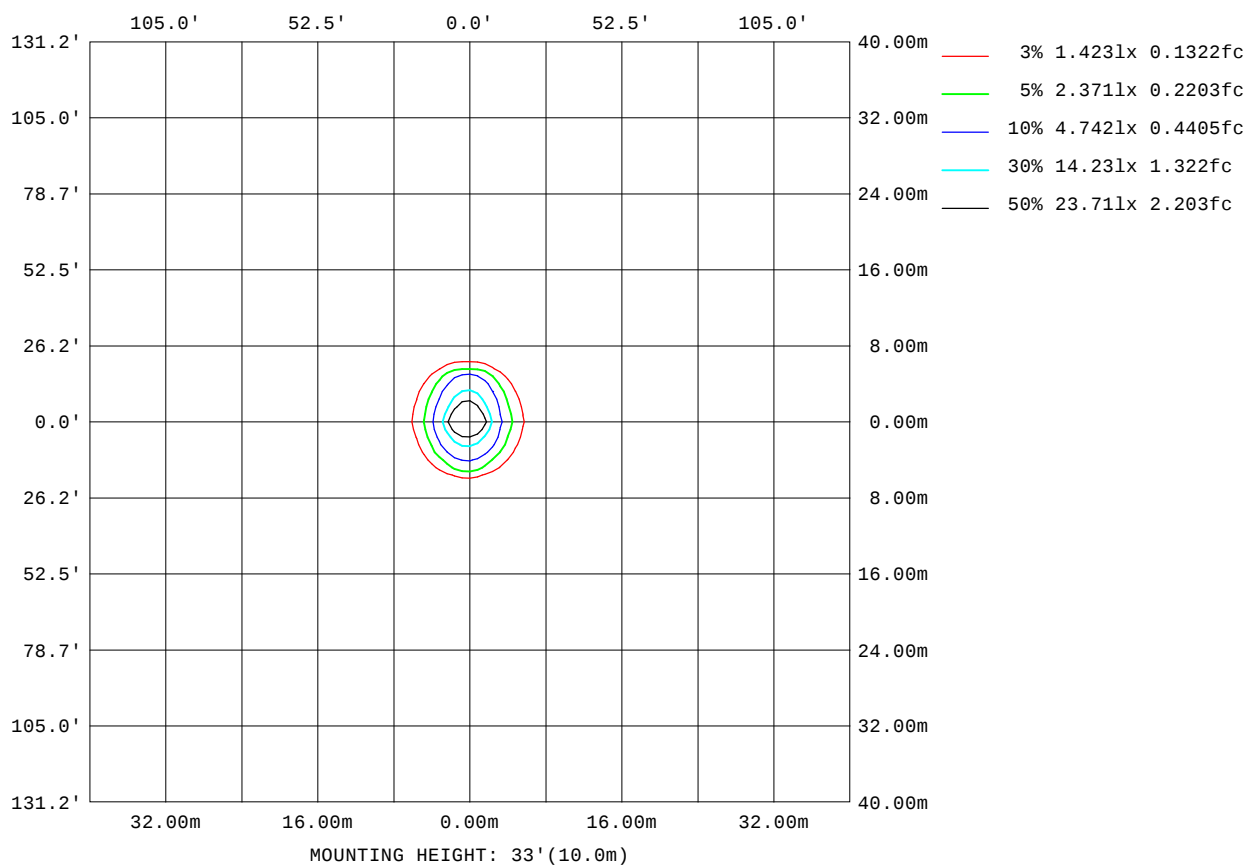
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	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: 2026-08-15

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:220.34V I:0.1966A P:19.936W PF:0.4602 Freq:50.00Hz Lamp Flux:1271.25x1 lm		
NAME: 6851-20W-2700K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 137*137*105mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

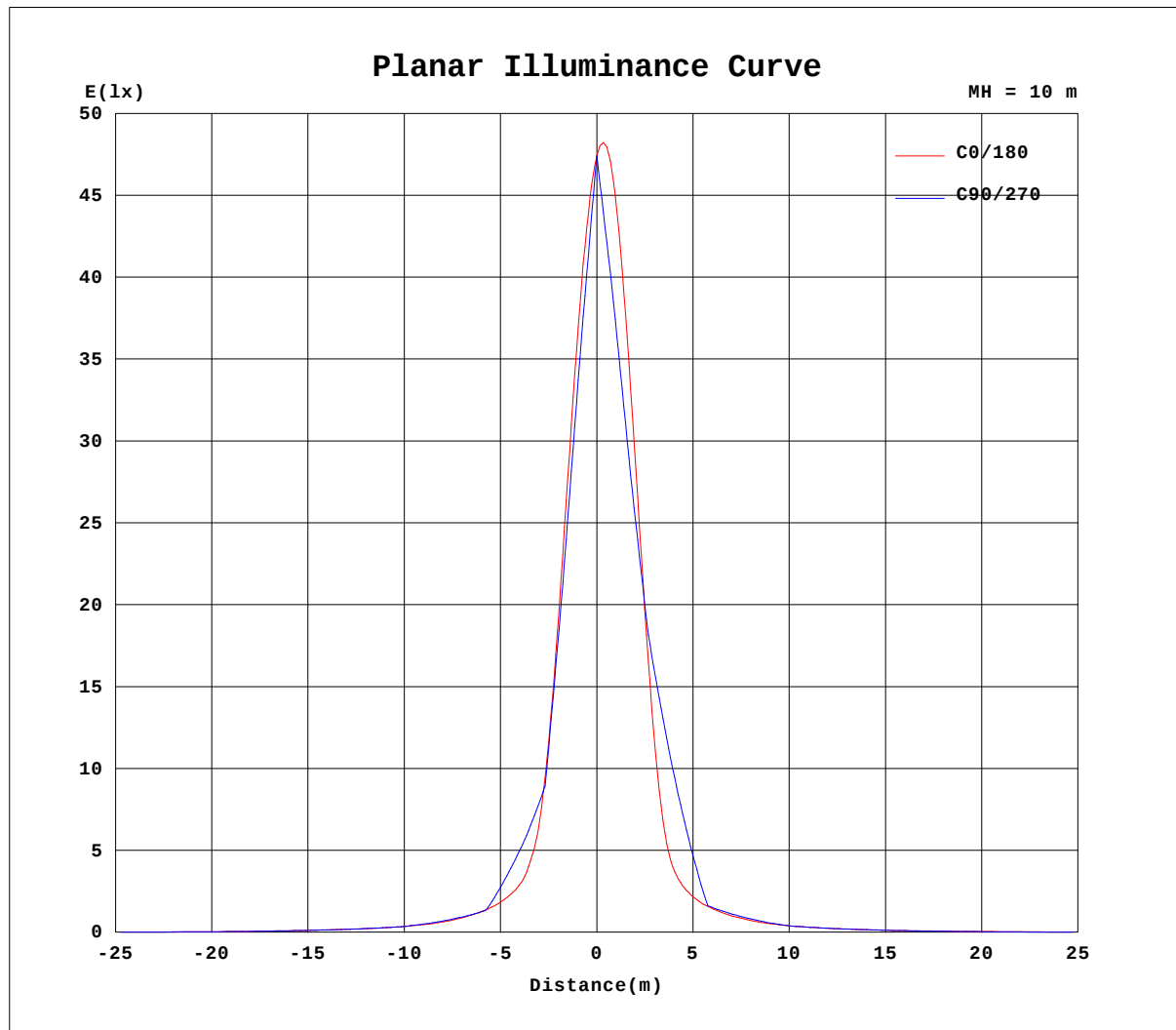
AvgL	cd/m2
L_0~180(65)av	1428
L_0~180(75)av	1285
L_0~180(85)av	860
L_90~270(65)av	1352
L_90~270(75)av	1196
L_90~270(85)av	0
L_45(65)av	1356
L_45(75)av	1198
L_45(85)av	0

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-15

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: 2026-08-15

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:

