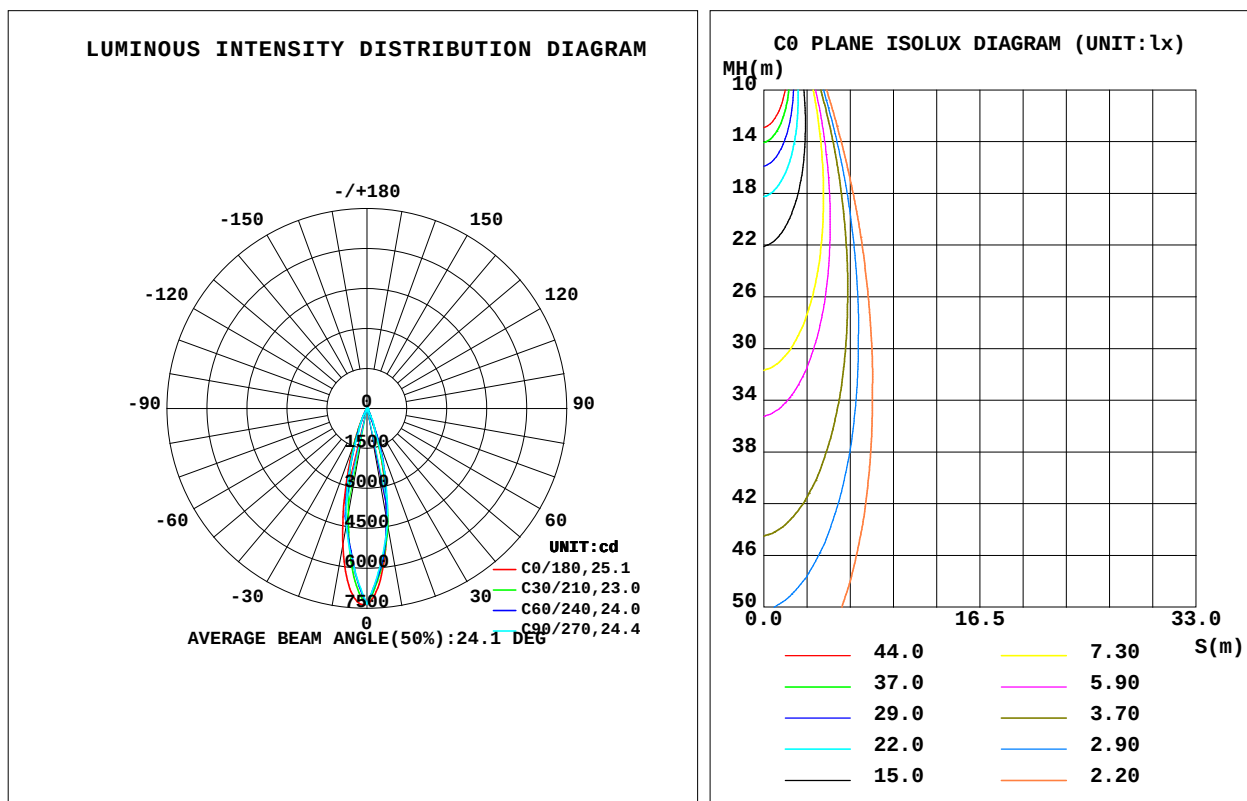


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:150.13V I:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm					
NAME: 6858		TYPE:18W-3000K		WEIGHT:	
SPEC.:		DIM.: 102*102*92mm		SERIAL No.:01	
MFR.: NORDECOR		SUR.:		Shielding Angle:24°	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.92 lm/W
MODEL		I _{max} (cd)	7367	S/MH(C0/180)		0.45
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)		0.41
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	1541.4	h UP, DN(C0-180)		0.0,49.6
NOMINAL FLUX(lm)	1541.4	CIE CLASS	DIRECT	h UP, DN(C180-360)		0.0,50.4
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	4300	4294	4417	4199	5239	4253	4467	4315	0- 10	524.8	524.8	34, 34
20	1015	1280	883.5	1135	1488	1179	909.9	1310	10- 20	699.4	1224	79.4, 79.4
30	112.0	122.5	91.12	132.2	175.3	146.9	90.45	128.1	20- 30	216.2	1440	93.4, 93.4
40	36.42	30.41	38.30	34.15	46.76	33.33	33.03	30.10	30- 40	40.55	1481	96.1, 96.1
50	22.88	17.70	27.62	20.45	29.51	18.95	21.44	16.72	40- 50	20.94	1502	97.4, 97.4
60	15.69	13.13	20.30	16.16	20.26	13.81	15.39	11.94	50- 60	16.53	1518	98.5, 98.5
70	10.12	9.366	12.07	11.43	12.70	9.642	10.13	8.662	60- 70	12.39	1531	99.3, 99.3
80	6.733	5.041	5.302	5.572	7.286	6.181	6.180	5.885	70- 80	8.028	1539	99.8, 99.8
90	4.553	0	0	0	3.761	0	0	0	80- 90	2.584	1541	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): 1492.2 lm

%lum = 96.8%

%lamp = 96.8%

Conical surface Flux(120deg): 1518.4 lm

%lum = 98.5%

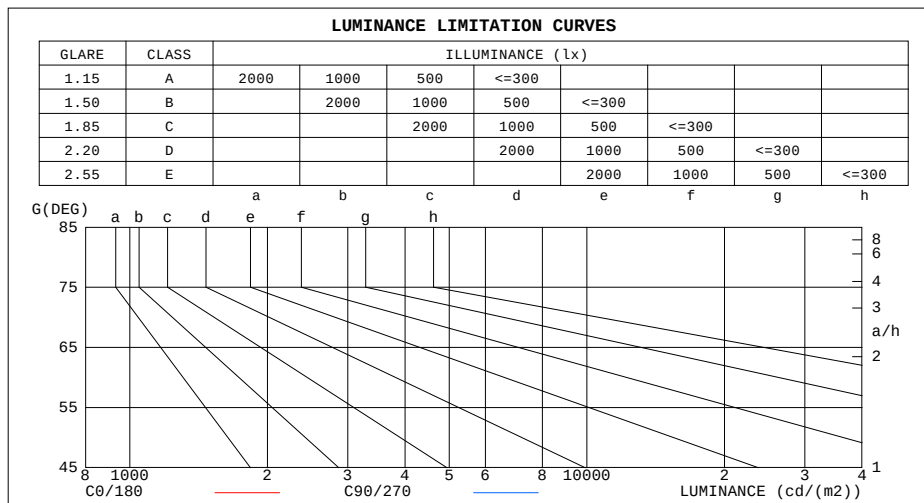
%lamp = 98.5%

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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	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	592	0
80	388	305
75	317	337
70	296	353
65	297	385
60	314	406
55	337	420
50	356	430
45	375	468

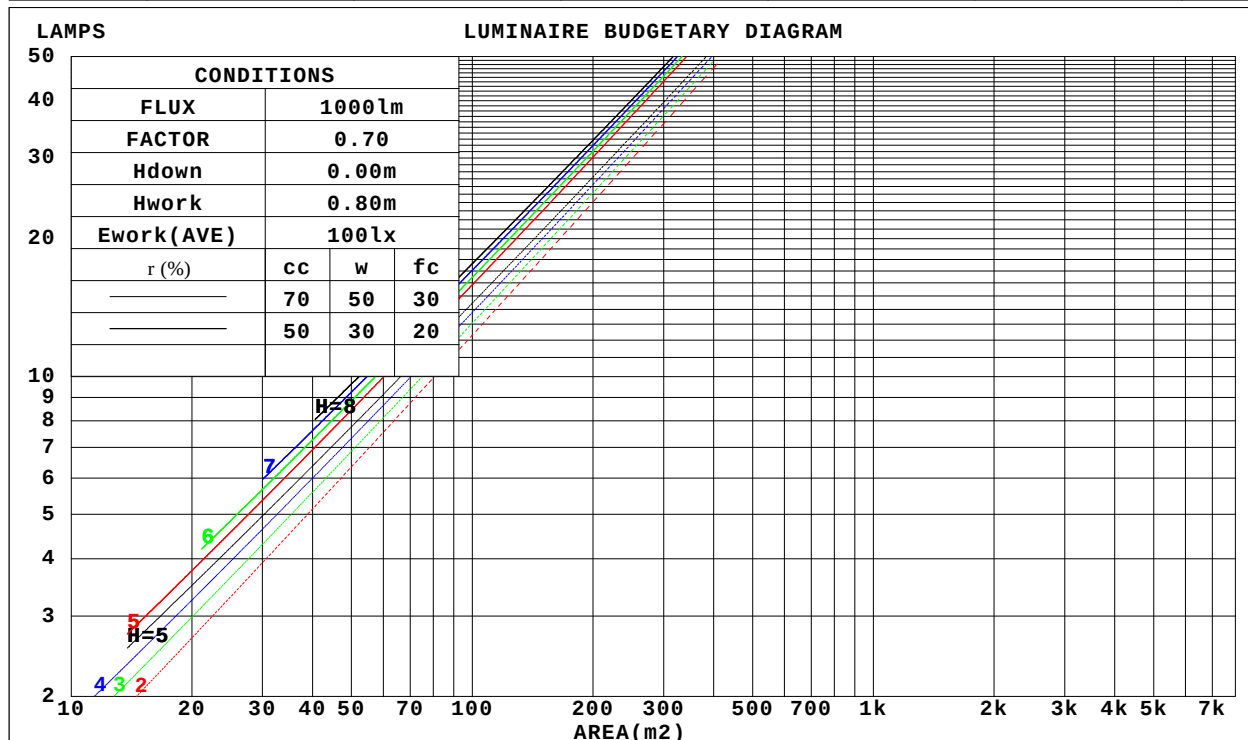
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-31

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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	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	.00
1.0	1.12	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.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	.95	.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	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.87	.84	.90	.86	.83	.89	.85	.83	.88	.85	.82	.87	.84	.82	.81
7.0	.88	.84	.81	.87	.83	.80	.86	.83	.80	.85	.82	.80	.84	.81	.79	.78
8.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
9.0	.83	.79	.76	.82	.78	.76	.81	.78	.75	.81	.77	.75	.80	.77	.75	.74
10.0	.80	.76	.74	.80	.76	.73	.79	.76	.73	.79	.75	.73	.78	.75	.73	.72



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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	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	.145	.082	.026	.138	.079	.025	.126	.072	.023	.114	.066	.021	.104	.060	.019	
2.0	.134	.073	.022	.128	.071	.022	.118	.066	.020	.109	.061	.019	.100	.056	.018	
3.0	.124	.066	.020	.120	.064	.019	.111	.060	.018	.103	.056	.017	.096	.053	.016	
4.0	.116	.060	.018	.112	.059	.017	.105	.056	.017	.098	.053	.016	.092	.050	.015	
5.0	.109	.055	.016	.105	.054	.016	.099	.052	.015	.094	.049	.015	.088	.047	.014	
6.0	.103	.051	.015	.100	.050	.015	.094	.048	.014	.089	.046	.014	.085	.045	.013	
7.0	.097	.048	.014	.095	.047	.013	.090	.046	.013	.086	.044	.013	.082	.042	.012	
8.0	.092	.045	.013	.090	.044	.013	.086	.043	.012	.082	.042	.012	.079	.040	.012	
9.0	.088	.043	.012	.086	.042	.012	.083	.041	.012	.079	.040	.011	.076	.039	.011	
10.0	.084	.040	.011	.083	.040	.011	.079	.039	.011	.076	.038	.011	.074	.037	.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	.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	.106	.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	.083	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.051	.034	.022	.029	.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: 2026-08-31

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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm										
NAME: 6858					TYPE:18W-3000K			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	-1.8	-1.2	-1.6	-1.0	-0.9	-0.5	0.2	-0.3	0.4	0.5
	-0.6	0.0	-0.4	0.2	0.4	1.1	1.7	1.3	1.9	2.1
	0.0	0.6	0.3	0.8	1.1	1.8	2.4	2.0	2.6	2.8
	0.7	1.3	1.0	1.5	1.7	2.3	2.8	2.5	3.1	3.3
	1.0	1.6	1.3	1.8	2.1	2.4	2.9	2.7	3.2	3.4
	1.5	2.0	1.8	2.3	2.5	2.3	2.9	2.6	3.1	3.4
4H	-1.3	-0.7	-1.0	-0.5	-0.3	-0.1	0.5	0.1	0.7	0.9
	0.1	0.6	0.4	0.8	1.1	1.7	2.2	2.0	2.5	2.7
	0.7	1.2	1.1	1.5	1.8	2.5	3.0	2.8	3.2	3.5
	1.5	1.9	1.8	2.2	2.6	3.1	3.5	3.5	3.9	4.2
	1.8	2.2	2.2	2.6	2.9	3.2	3.6	3.6	4.0	4.4
	2.3	2.7	2.7	3.0	3.4	3.2	3.6	3.6	4.0	4.3
8H	1.1	1.5	1.5	1.9	2.3	2.6	3.0	3.0	3.4	3.8
	2.0	2.4	2.4	2.7	3.2	3.4	3.8	3.8	4.2	4.6
	2.5	2.8	2.9	3.2	3.7	3.6	3.9	4.1	4.3	4.8
	3.1	3.3	3.5	3.8	4.2	3.6	3.9	4.1	4.3	4.8
12H	1.2	1.6	1.6	1.9	2.3	2.6	3.0	3.0	3.4	3.8
	2.1	2.4	2.6	2.8	3.3	3.5	3.8	3.9	4.2	4.6
	2.7	2.9	3.1	3.4	3.8	3.7	3.9	4.1	4.4	4.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.5 / - 0.6					+ 0.4 / - 0.2				
2.0H	+ 0.8 / - 1.0					+ 0.4 / - 0.6				

CIE Pub.117, 1541 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.5)
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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

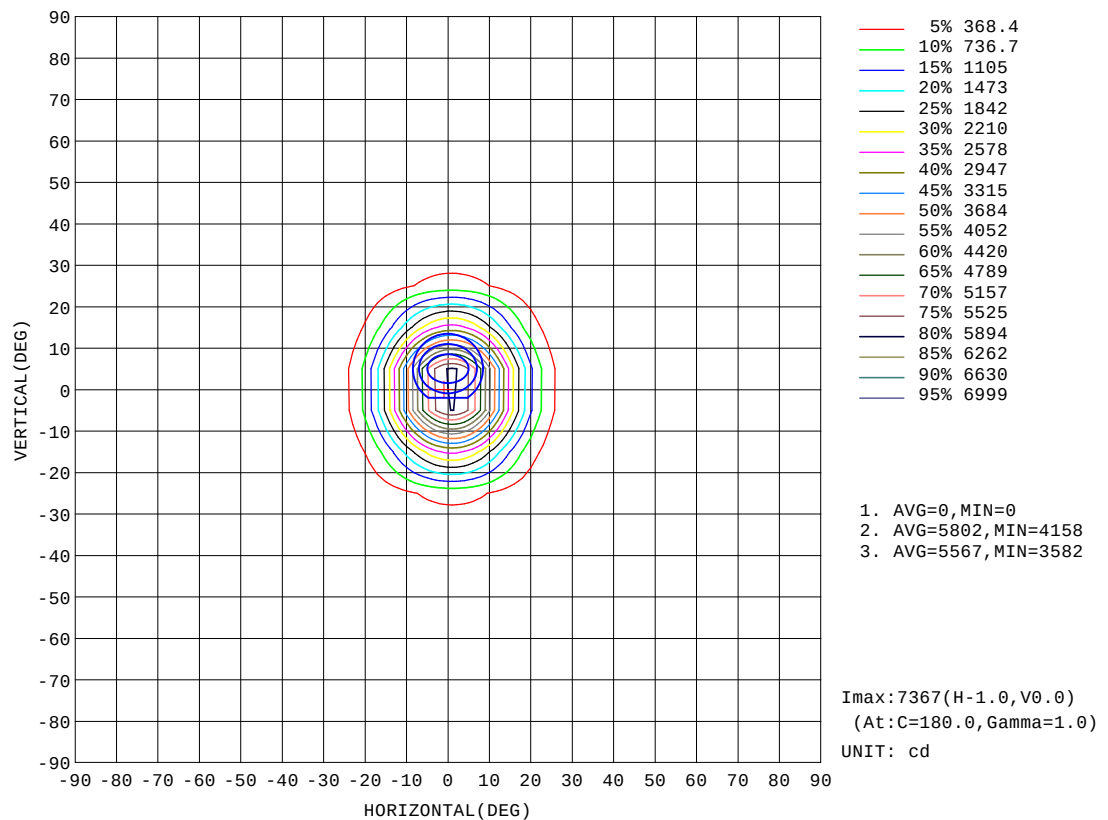
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	90	87	94	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	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

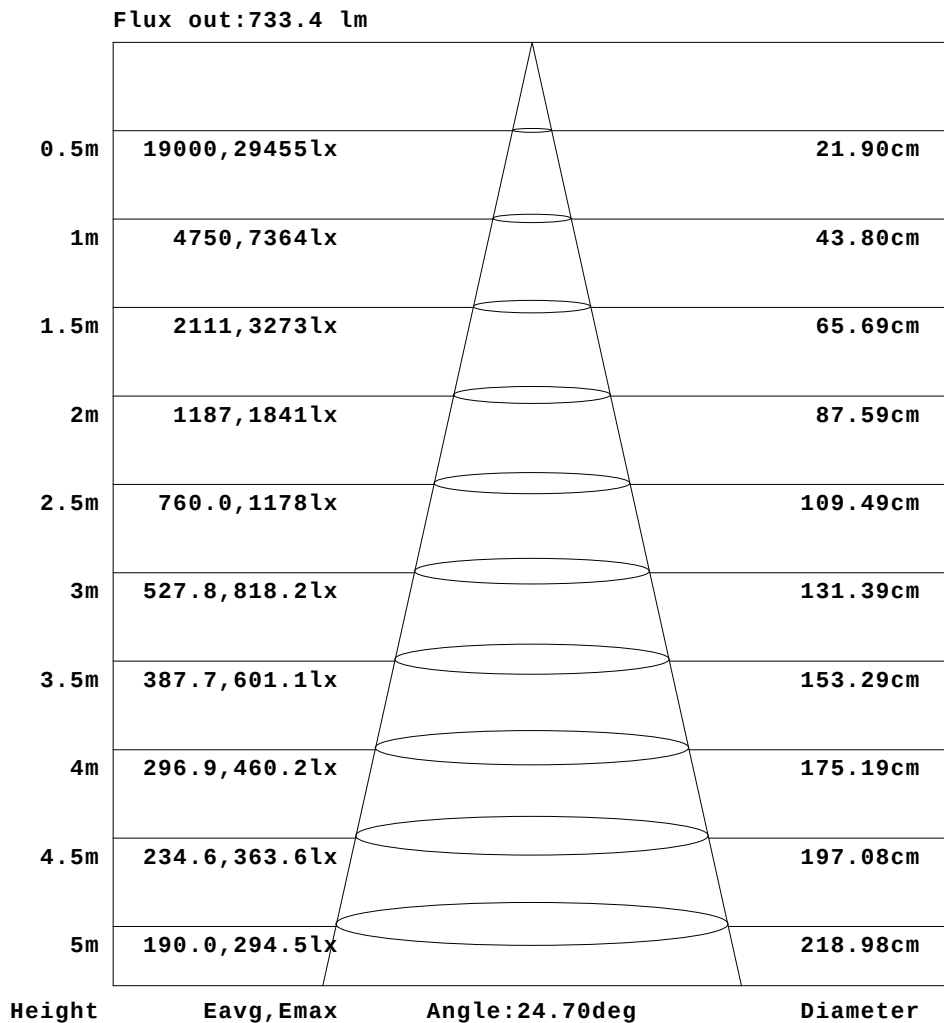


H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-31

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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



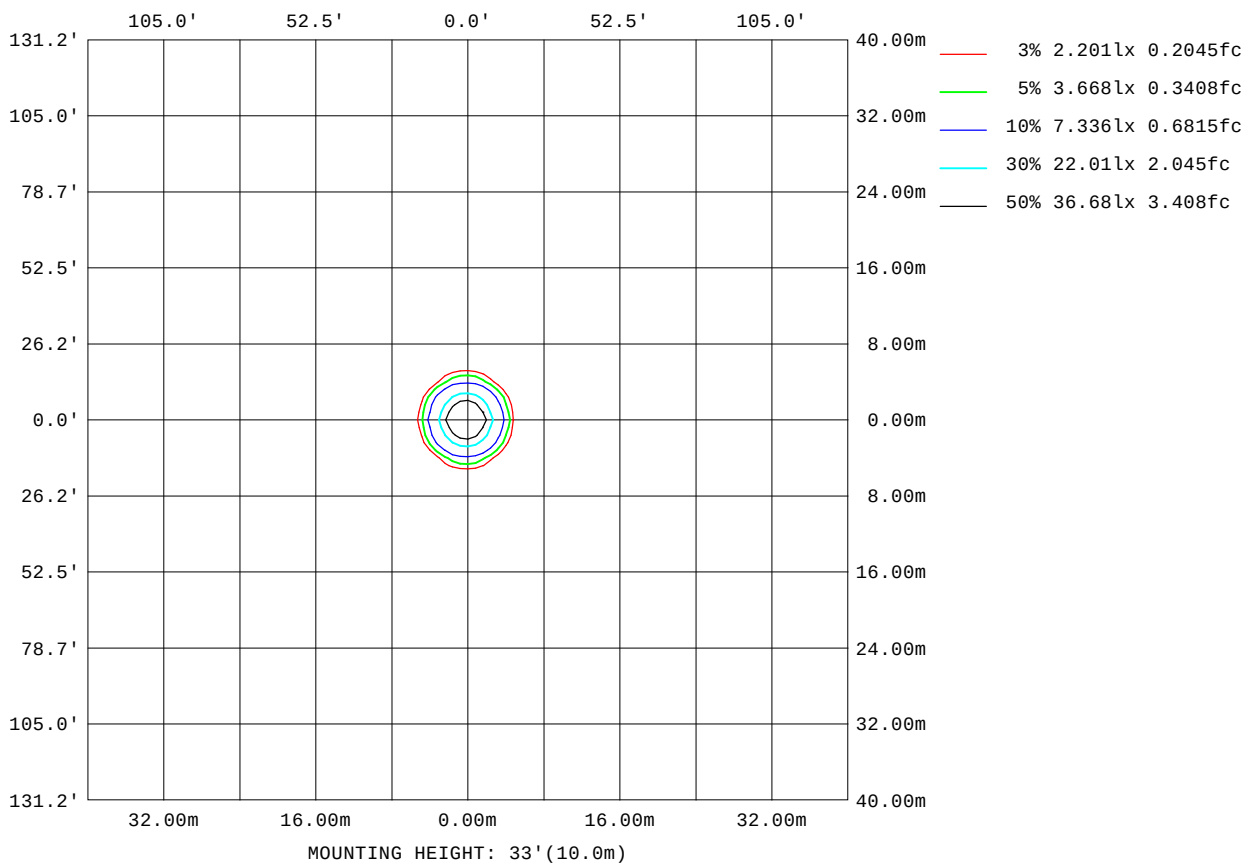
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	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:0.2406A P:19.049W PF:0.5275 Freq:50.00Hz Lamp Flux:1541.4x1 lm		
NAME: 6858	TYPE:18W-3000K	WEIGHT:
SPEC.:	DIM.: 102*102*92mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

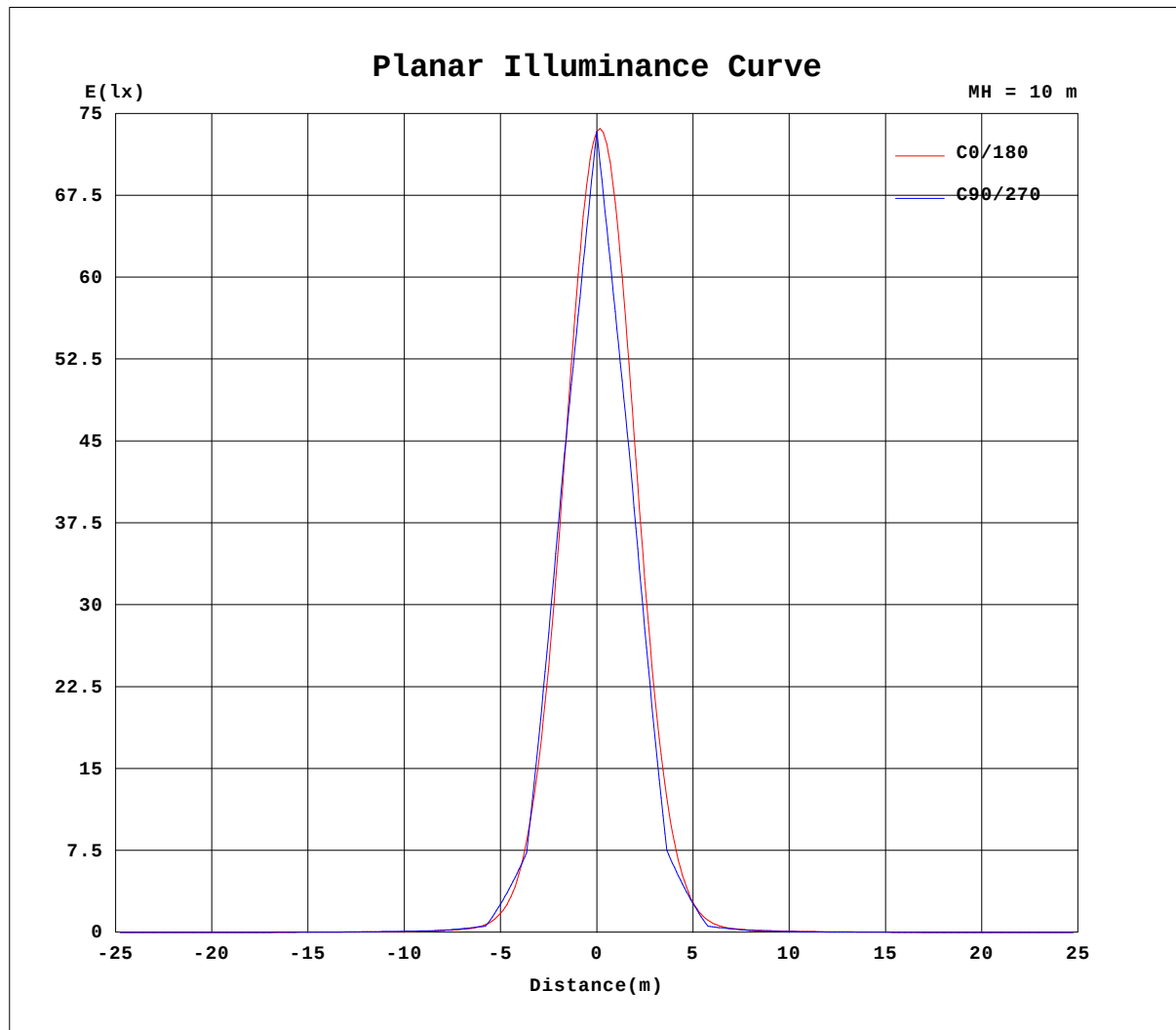
AvgL	cd/m2
L_0~180(65)av	340
L_0~180(75)av	347
L_0~180(85)av	598
L_90~270(65)av	344
L_90~270(75)av	327
L_90~270(85)av	0
L_45(65)av	278
L_45(75)av	300
L_45(85)av	211

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:

