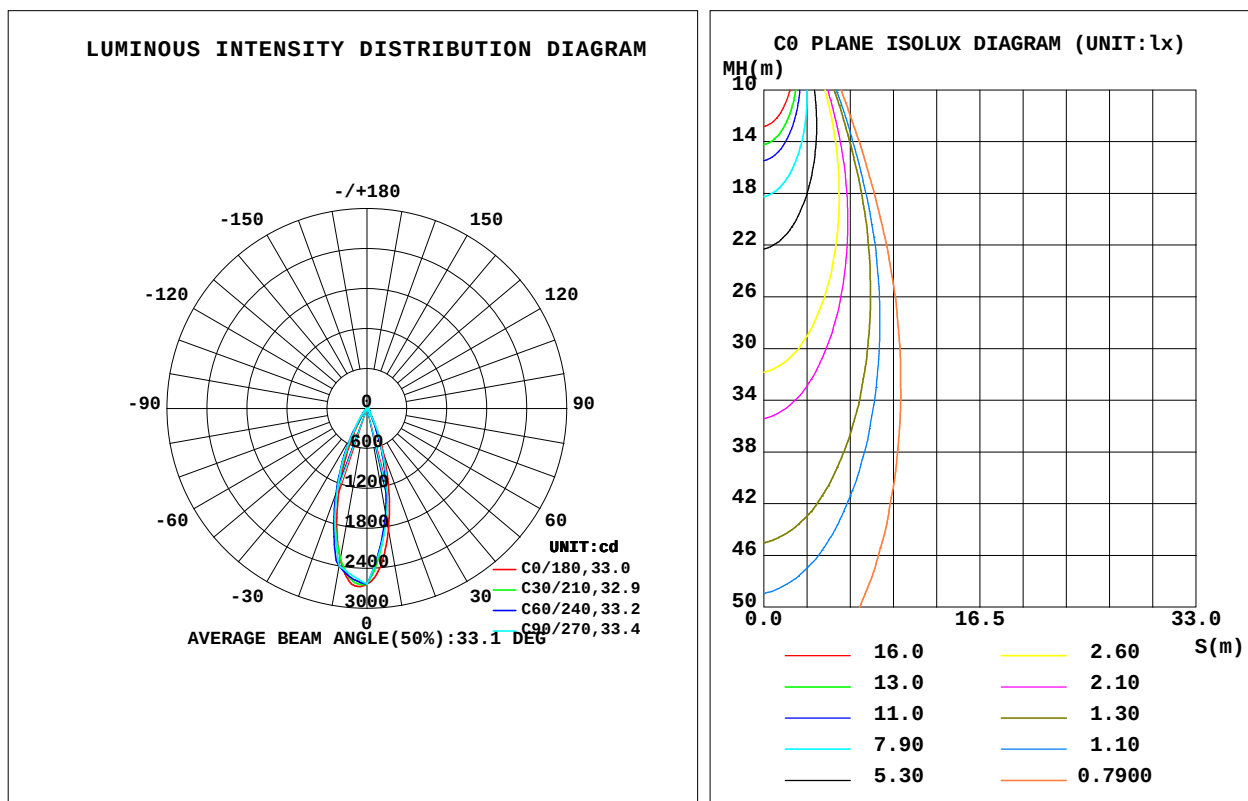


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.50 lm/W			
MODEL		I _{max} (cd)	2676	S/MH(C0/180)	0.61
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	998.35	h UP, DN(C0-180)	0.0,41.1
NOMINAL FLUX(lm)	998.35	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,58.9
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	100.0	CIBSE SHR MAX	0.55



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [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	1858	1607	1688	1902	2307	2341	2400	2034	0- 10	215.3	215.3	21.6, 21.6
20	753.4	611.2	633.3	881.7	1177	1351	1308	1016	10- 20	403.8	619.0	62, 62
30	137.0	114.8	117.8	202.6	299.0	442.8	385.3	259.6	20- 30	250.7	869.7	87.1, 87.1
40	38.12	32.95	39.13	45.86	61.00	72.61	65.38	47.34	30- 40	75.56	945.3	94.7, 94.7
50	20.23	16.44	18.14	19.48	28.49	28.27	28.22	20.98	40- 50	26.61	971.9	97.3, 97.3
60	8.750	8.238	8.699	8.983	13.45	14.01	13.51	9.617	50- 60	14.42	986.3	98.8, 98.8
70	3.849	3.802	5.004	5.283	5.094	5.811	5.332	3.514	60- 70	6.925	993.2	99.5, 99.5
80	2.766	2.416	2.984	3.384	3.175	3.032	3.221	2.700	70- 80	3.667	996.9	99.9, 99.9
90	2.402	0	0	0	2.548	0	0	0	80- 90	1.453	998.3	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): 960.68 lm

%lum = 96.2%

%lamp = 96.2%

Conical surface Flux(120deg): 986.3 lm

%lum = 98.8%

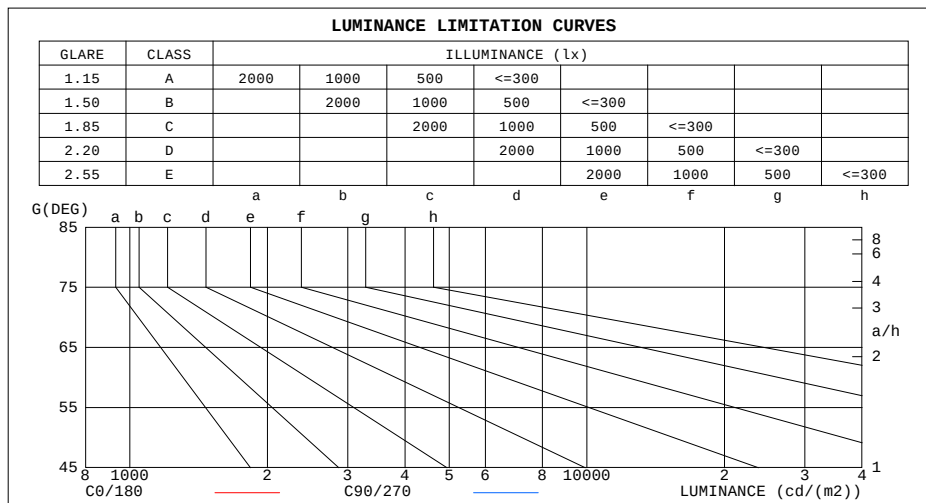
%lamp = 98.8%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-09-15

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:7.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	298	0
80	159	172
75	128	154
70	113	146
65	120	162
60	175	174
55	245	234
50	315	282
45	392	405

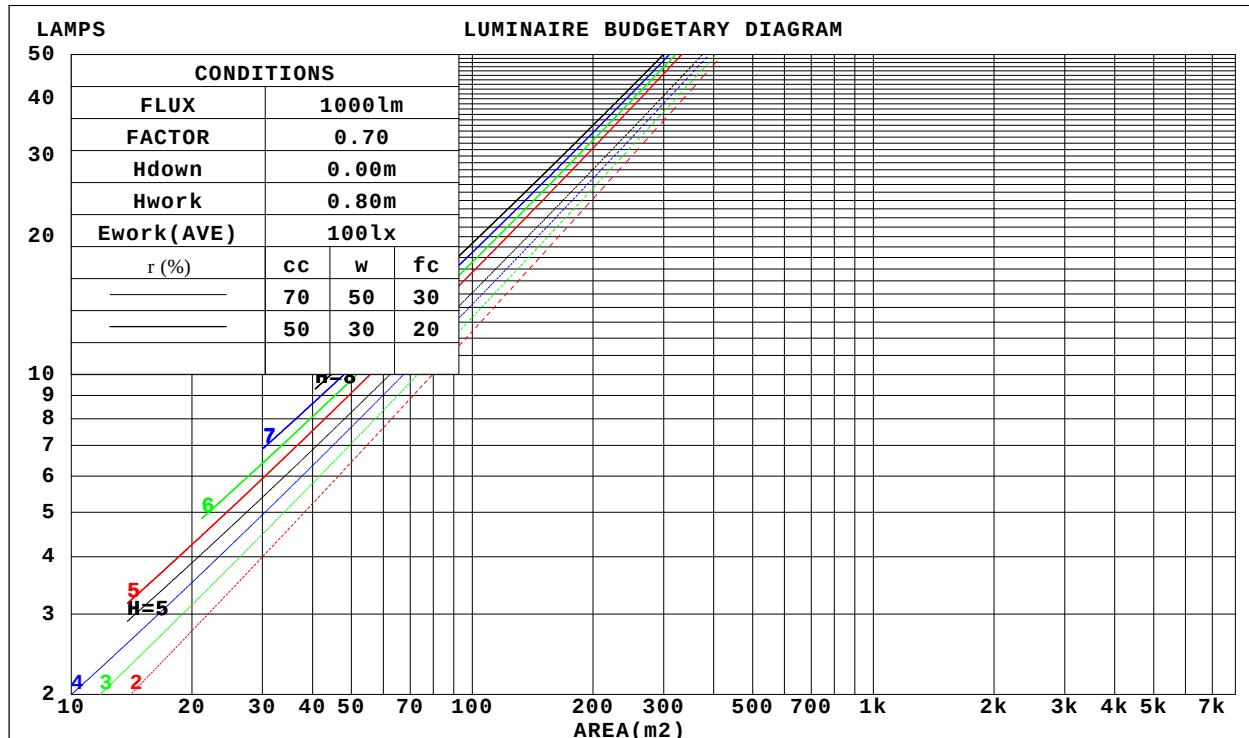
H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

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	1.09	1.07	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.95	.97	.95	.93	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.91	.88	.91	.89	.87	.85
4.0	.94	.90	.86	.93	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.77	.85	.80	.77	.84	.79	.76	.82	.79	.76	.81	.78	.75	.74
7.0	.82	.77	.73	.81	.77	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
9.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.65
10.0	.73	.68	.64	.72	.67	.64	.71	.67	.64	.71	.67	.64	.70	.66	.64	.63



H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

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	.160	.091	.029	.153	.087	.028	.141	.081	.026	.129	.074	.024	.119	.069	.022	
2.0	.150	.082	.025	.144	.080	.025	.134	.075	.023	.124	.070	.022	.116	.065	.021	
3.0	.141	.075	.022	.136	.073	.022	.128	.069	.021	.119	.065	.020	.112	.062	.019	
4.0	.133	.069	.020	.129	.068	.020	.122	.064	.019	.115	.062	.019	.108	.059	.018	
5.0	.126	.064	.019	.122	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017	
6.0	.119	.060	.017	.116	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016	
7.0	.114	.056	.016	.111	.055	.016	.106	.054	.015	.102	.052	.015	.097	.051	.015	
8.0	.109	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	.094	.048	.014	
9.0	.104	.050	.014	.102	.050	.014	.098	.048	.014	.094	.047	.014	.091	.046	.013	
10.0	.100	.048	.013	.098	.047	.013	.094	.046	.013	.091	.045	.013	.088	.044	.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	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.093	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.066	.046	.065	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.097	.062	.039	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.046	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-09-15

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: 7.300m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm											
NAME: 80077					TYPE:12W-3000K			WEIGHT:			
SPEC.:					DIM.: 98*98*73mm			SERIAL No.:01			
MFR.: NORDECOR					SUR.:			Shielding Angle:36°			
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		-0.4	0.4	-0.2	0.6	0.7	0.2	0.9	0.4	1.1	1.3
	3H	-0.2	0.5	0.0	0.7	0.9	0.6	1.4	0.9	1.6	1.8
	4H	-0.1	0.6	0.2	0.8	1.1	1.0	1.7	1.2	1.9	2.1
	6H	0.2	0.8	0.4	1.1	1.3	1.3	2.0	1.6	2.2	2.5
	8H	0.4	1.0	0.7	1.2	1.5	1.4	2.0	1.7	2.3	2.6
	12H	0.7	1.3	1.0	1.6	1.8	1.4	2.0	1.7	2.3	2.5
4H	2H	-0.3	0.4	-0.0	0.6	0.9	0.2	0.9	0.5	1.1	1.3
	3H	-0.0	0.6	0.3	0.8	1.1	0.8	1.4	1.2	1.7	2.0
	4H	0.2	0.8	0.5	1.1	1.4	1.3	1.8	1.6	2.1	2.4
	6H	0.5	1.0	0.9	1.4	1.7	1.8	2.3	2.2	2.6	3.0
	8H	0.8	1.3	1.2	1.6	2.0	1.9	2.4	2.3	2.8	3.1
	12H	1.3	1.7	1.7	2.1	2.4	1.9	2.3	2.3	2.7	3.1
8H	4H	0.3	0.8	0.7	1.1	1.5	1.3	1.8	1.7	2.1	2.5
	6H	0.8	1.2	1.3	1.6	2.0	2.0	2.4	2.4	2.8	3.2
	8H	1.3	1.6	1.7	2.0	2.5	2.2	2.6	2.7	3.0	3.4
	12H	1.9	2.2	2.4	2.7	3.1	2.2	2.5	2.7	2.9	3.4
12H	4H	0.3	0.8	0.7	1.1	1.5	1.3	1.7	1.7	2.1	2.5
	6H	0.9	1.3	1.4	1.7	2.1	2.1	2.4	2.5	2.8	3.3
	8H	1.5	1.7	1.9	2.2	2.7	2.3	2.6	2.8	3.0	3.5
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.0					+ 1.1 / - 0.9					
1.5H	+ 1.6 / - 0.9					+ 2.0 / - 0.8					
2.0H	+ 2.0 / - 1.5					+ 1.7 / - 1.2					

CIE Pub.117, 998.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.0)
Area: 0.1 m2

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

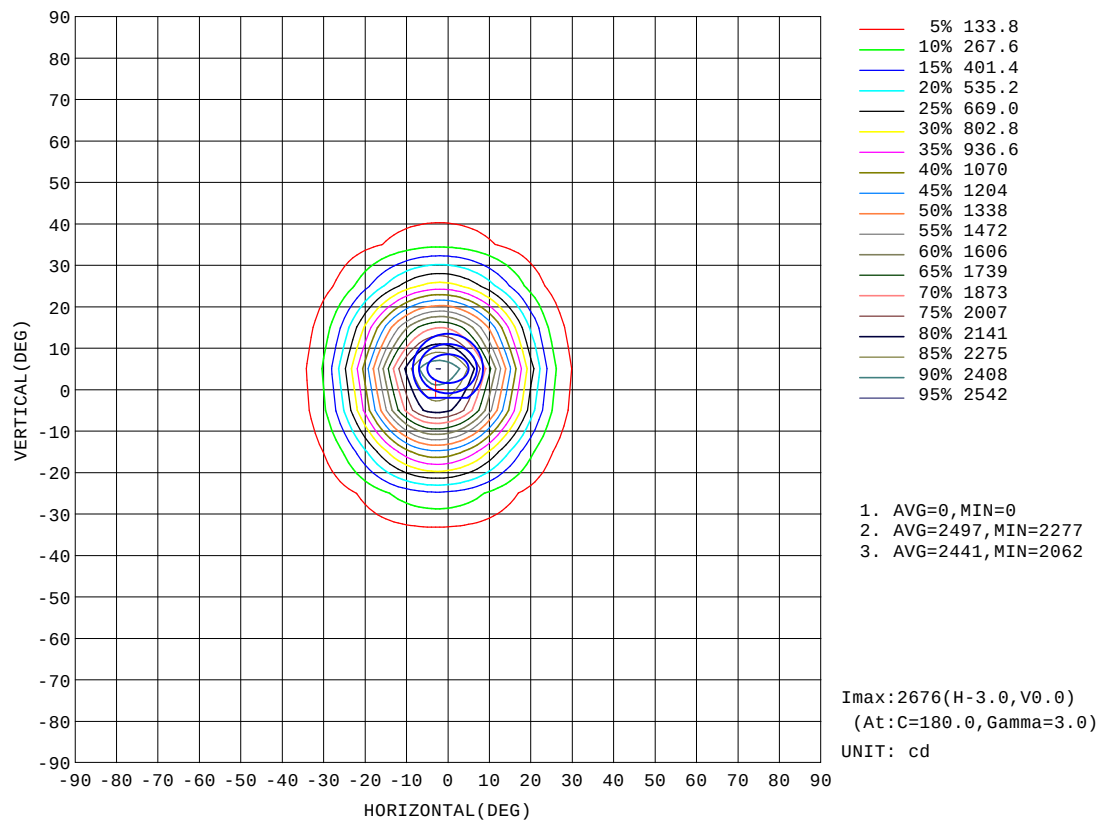
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	88	82	78	87	82	78	75
0.80	96	90	86	95	89	86	94	89	86	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	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:2026-09-15

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:7.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

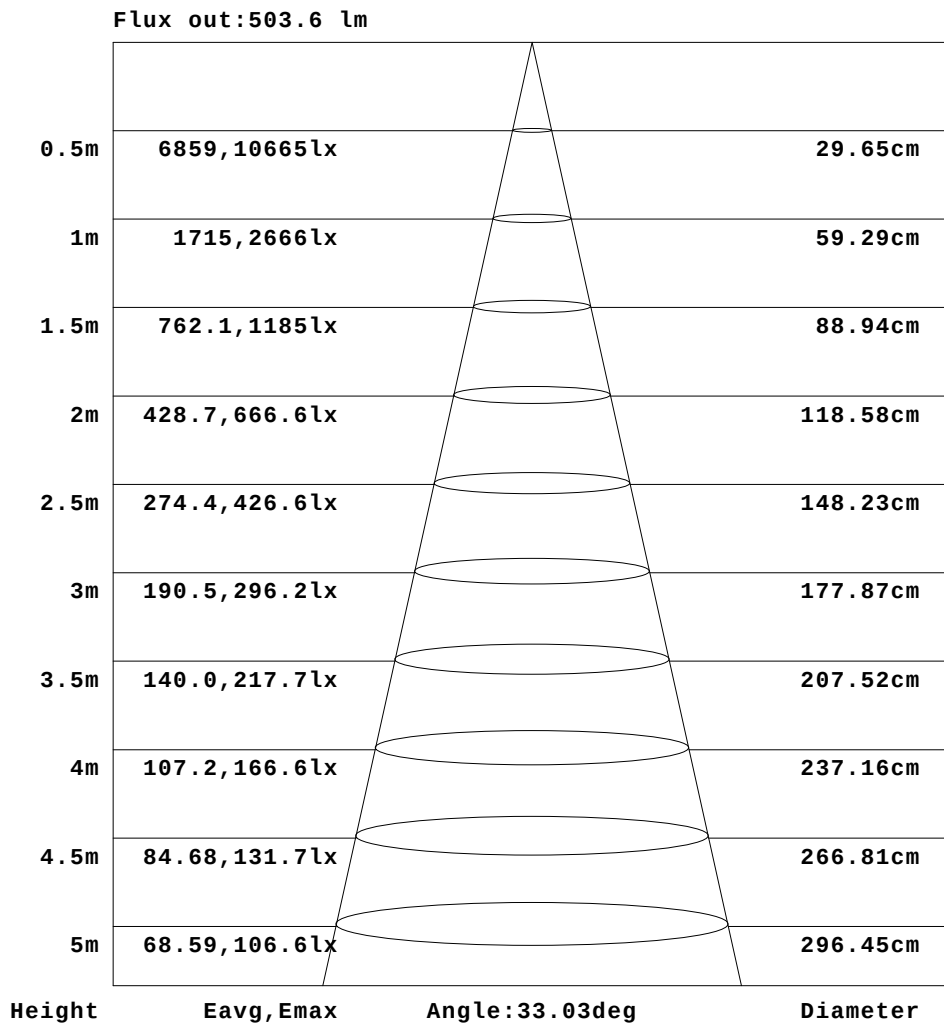


H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°



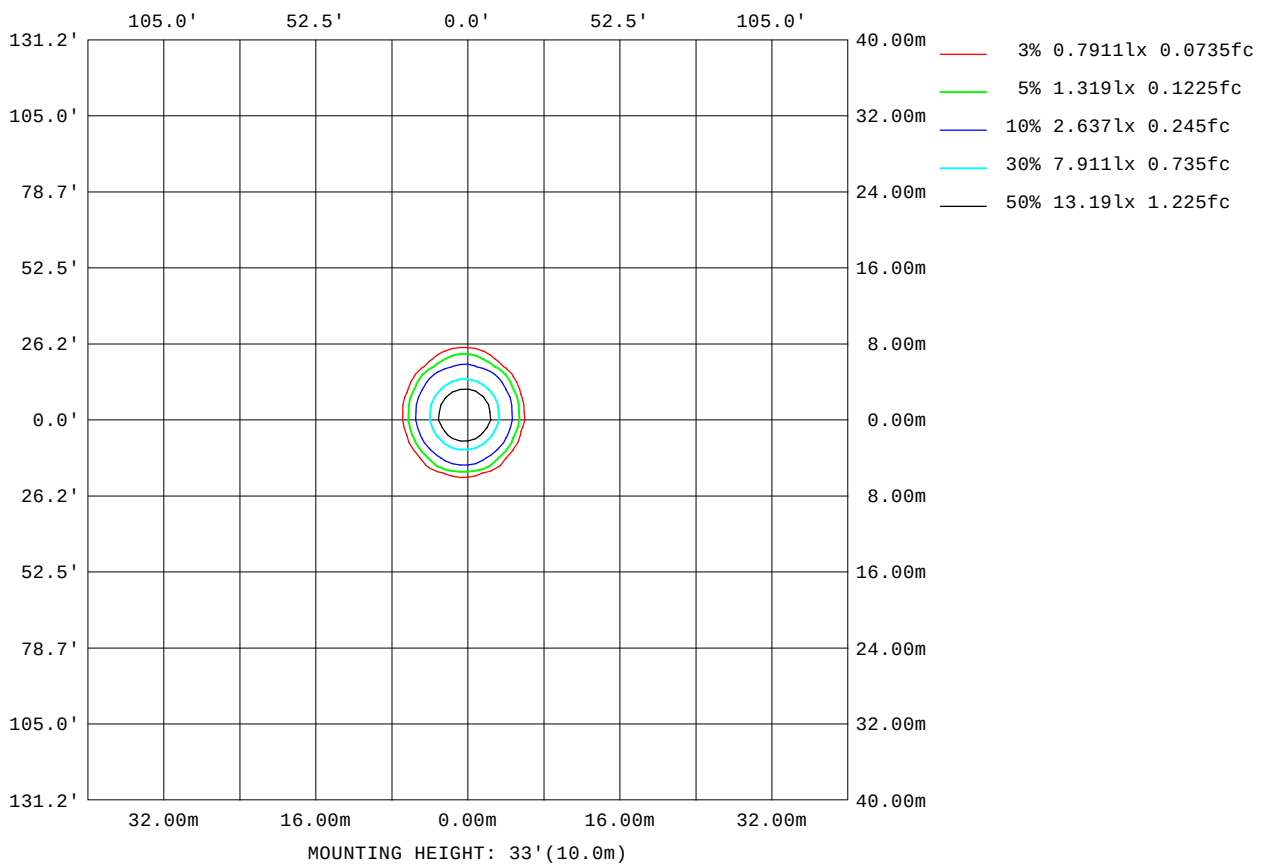
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-09-15

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: 7.300m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

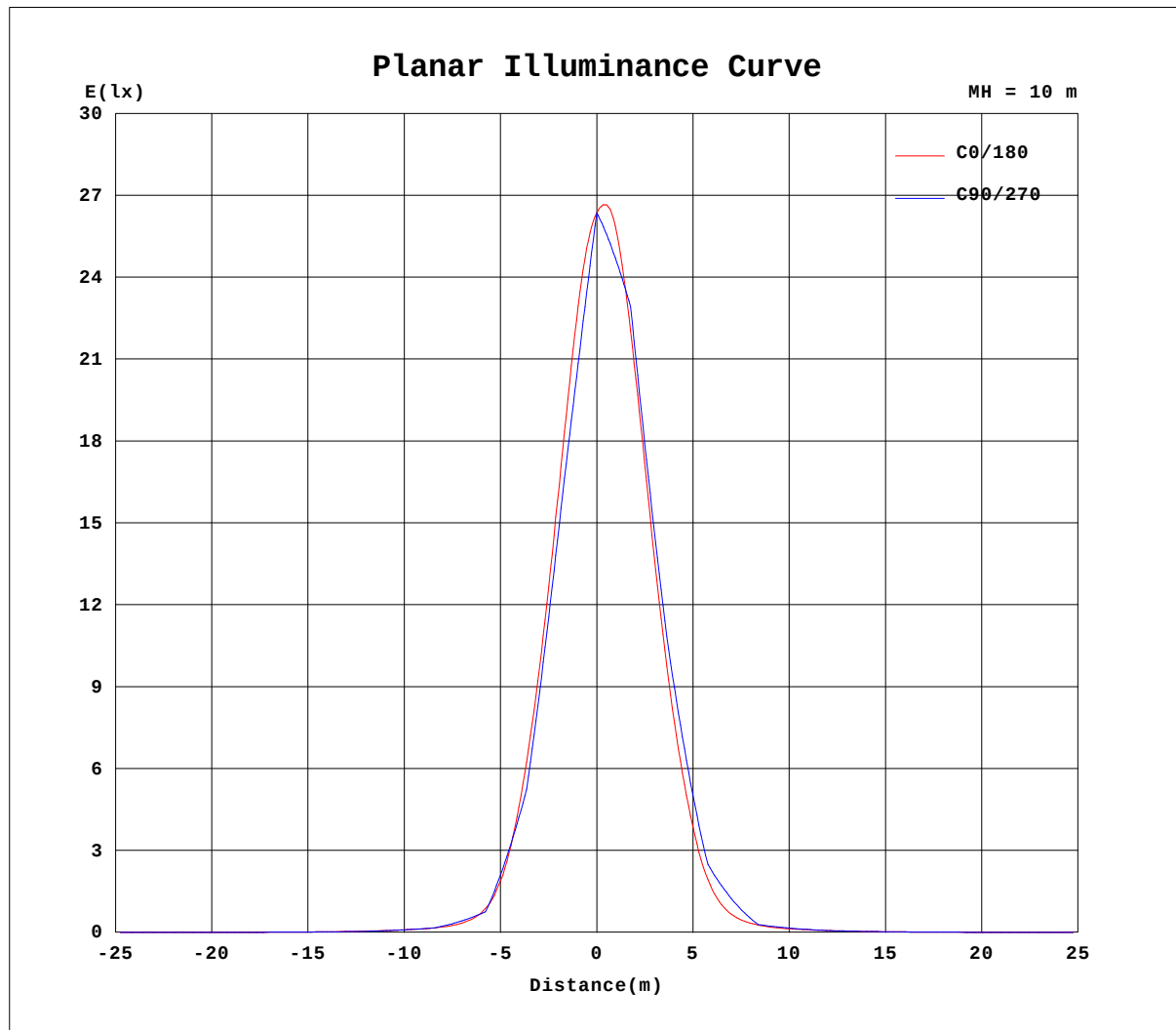
AvgL	cd/m2
L_0~180(65)av	157
L_0~180(75)av	145
L_0~180(85)av	310
L_90~270(65)av	193
L_90~270(75)av	160
L_90~270(85)av	0
L_45(65)av	162
L_45(75)av	134
L_45(85)av	122

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-09-15

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:7.300m [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: 2026-09-15

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: 7.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:150.05V I:0.1444A P:12.717W PF:0.5869 Freq:50.00Hz Lamp Flux:998.35x1 lm		
NAME: 80077	TYPE:12W-3000K	WEIGHT:
SPEC.:	DIM.: 98*98*73mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:36°

Table- -1

UNIT: cd

[illegible]

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-15

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:7.300m [K=1.0000]
Remarks:

