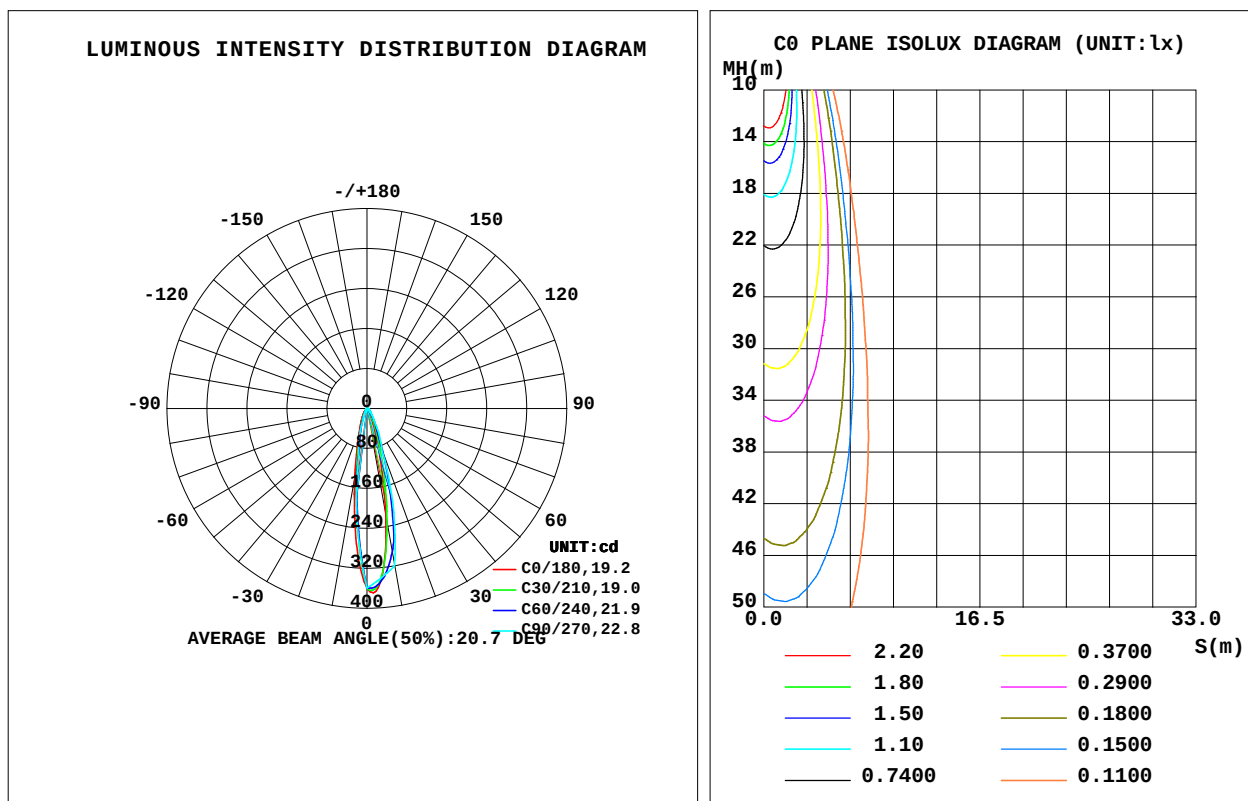


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.11 lm/W			
MODEL		I _{max} (cd)	369.0	S/MH(C0/180)	0.28
NOMINAL POWER(W)	1	LOR(%)	100.0	S/MH(C90/270)	0.23
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	81.077	h UP, DN(C0-180)	0.0,65.4
NOMINAL FLUX(lm)	81.0772	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,34.6
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:2026-09-16

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:8.200m [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	218.1	260.3	319.5	198.9	142.9	109.9	96.27	142.4	0- 10	23.76	23.76	29.3, 29.3
20	45.59	81.67	87.22	66.58	42.36	30.82	22.96	30.58	10- 20	28.61	52.37	64.6, 64.6
30	12.18	23.54	29.66	26.71	18.74	10.75	6.623	7.694	20- 30	13.75	66.12	81.5, 81.5
40	3.252	7.078	12.54	12.48	7.316	3.330	2.480	2.409	30- 40	6.779	72.90	89.9, 89.9
50	1.883	2.376	3.547	2.739	2.066	1.635	1.688	1.699	40- 50	3.063	75.96	93.7, 93.7
60	1.504	1.522	1.711	1.547	1.538	1.405	1.447	1.422	50- 60	1.615	77.58	95.7, 95.7
70	1.378	1.383	1.504	1.424	1.355	1.313	1.297	1.352	60- 70	1.424	79.00	97.4, 97.4
80	1.286	1.303	1.332	1.286	1.274	1.175	1.160	1.250	70- 80	1.382	80.38	99.1, 99.1
90	1.171	0	0	0	1.171	0	0	0	80- 90	0.6958	81.08	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): 74.75 lm

%lum = 92.2%

%lamp = 92.2%

Conical surface Flux(120deg): 77.575 lm

%lum = 95.7%

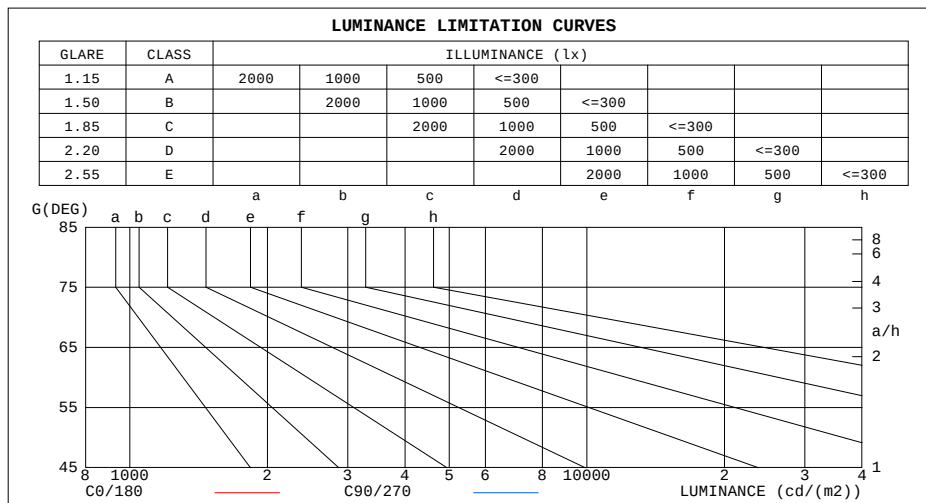
%lamp = 95.7%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-09-16

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:8.200m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	145	0
80	74	77
75	52	55
70	40	44
65	34	38
60	30	34
55	29	46
50	29	55
45	33	114

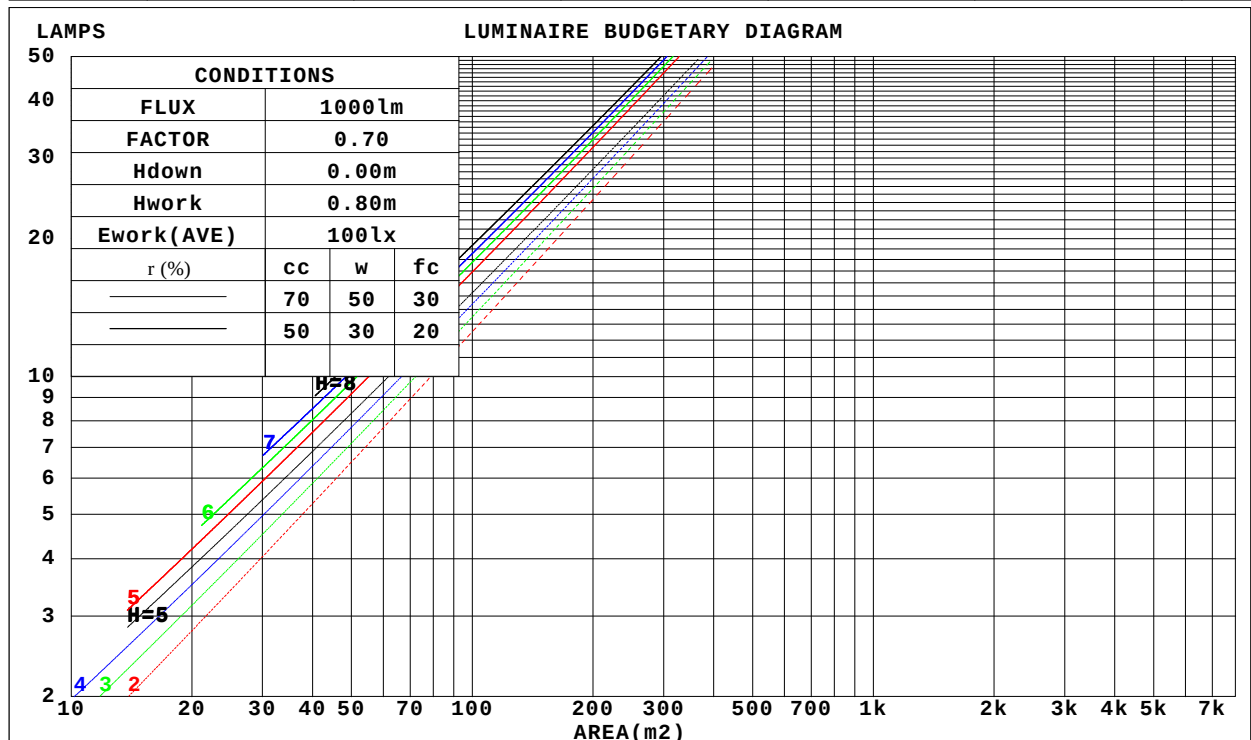
H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-16

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:8.200m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°

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



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-09-16

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: 8.200m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm								
NAME: 2840			TYPE:1W-3000K			WEIGHT:		
SPEC.:			DIM.: 33*33*70mm			SERIAL No.:01		
MFR.: NORDECOR			SUR.:			Shielding Angle:19°		

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	.174	.099	.031	.168	.096	.030	.155	.089	.028	.144	.083	.027	.133	.077	.025	
2.0	.160	.088	.027	.154	.085	.026	.144	.080	.025	.134	.075	.024	.125	.071	.022	
3.0	.148	.079	.024	.143	.077	.023	.134	.073	.022	.126	.069	.021	.118	.066	.020	
4.0	.138	.071	.021	.134	.070	.021	.126	.067	.020	.119	.064	.019	.112	.061	.019	
5.0	.129	.066	.019	.125	.064	.019	.119	.062	.018	.113	.059	.018	.107	.057	.017	
6.0	.121	.061	.017	.118	.060	.017	.112	.058	.017	.107	.056	.016	.102	.054	.016	
7.0	.114	.056	.016	.112	.056	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015	
8.0	.108	.053	.015	.106	.052	.015	.102	.051	.014	.097	.049	.014	.094	.048	.014	
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.093	.047	.013	.090	.046	.013	
10.0	.098	.047	.013	.096	.046	.013	.093	.045	.013	.089	.044	.013	.086	.043	.012	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.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	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.111	.077	.052	.095	.067	.046	.066	.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	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.079	.049	.029	.055	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.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: 2026-09-16

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: 8.200m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm											
NAME: 2840					TYPE:1W-3000K			WEIGHT:			
SPEC.:					DIM.: 33*33*70mm			SERIAL No.:01			
MFR.: NORDECOR					SUR.:			Shielding Angle:19°			
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	3H	3.9	4.7	4.1	4.9	5.0	7.6	8.4	7.8	8.6	8.7
	3H	5.7	6.4	5.9	6.6	6.8	8.4	9.1	8.6	9.3	9.5
	4H	7.0	7.7	7.2	7.9	8.1	9.1	9.8	9.3	10.0	10.2
	6H	8.6	9.2	8.9	9.5	9.7	10.1	10.8	10.4	11.0	11.3
	8H	9.5	10.2	9.8	10.4	10.7	10.4	11.0	10.7	11.3	11.5
	12H	10.7	11.3	11.0	11.6	11.8	10.4	11.0	10.7	11.3	11.6
4H	2H	4.5	5.2	4.7	5.4	5.6	7.6	8.4	7.9	8.6	8.8
	3H	6.6	7.3	6.9	7.5	7.8	8.8	9.4	9.1	9.7	9.9
	4H	8.1	8.7	8.5	9.0	9.3	9.7	10.3	10.1	10.6	10.9
	6H	9.9	10.5	10.3	10.8	11.1	11.1	11.6	11.5	11.9	12.3
	8H	11.0	11.5	11.4	11.9	12.2	11.5	12.0	11.9	12.3	12.7
	12H	12.3	12.7	12.7	13.1	13.5	11.5	11.9	11.9	12.3	12.7
8H	4H	8.8	9.3	9.2	9.7	10.0	10.1	10.6	10.5	11.0	11.3
	6H	10.9	11.3	11.4	11.7	12.1	11.8	12.2	12.3	12.6	13.0
	8H	12.2	12.6	12.7	13.0	13.4	12.3	12.7	12.8	13.1	13.5
	12H	13.7	14.0	14.2	14.4	14.9	12.4	12.7	12.8	13.1	13.6
12H	4H	9.0	9.5	9.4	9.8	10.2	10.2	10.7	10.7	11.1	11.5
	6H	11.3	11.6	11.7	12.0	12.5	12.1	12.4	12.5	12.8	13.3
	8H	12.7	13.0	13.1	13.4	13.9	12.6	12.9	13.1	13.4	13.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.7 / - 0.5					
1.5H	+ 0.2 / - 0.2					+ 1.6 / - 0.6					
2.0H	+ 0.2 / - 0.4					+ 1.3 / - 0.4					

CIE Pub.117, 81.08 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.7)
Area: 0.1 m2

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-16

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:8.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°

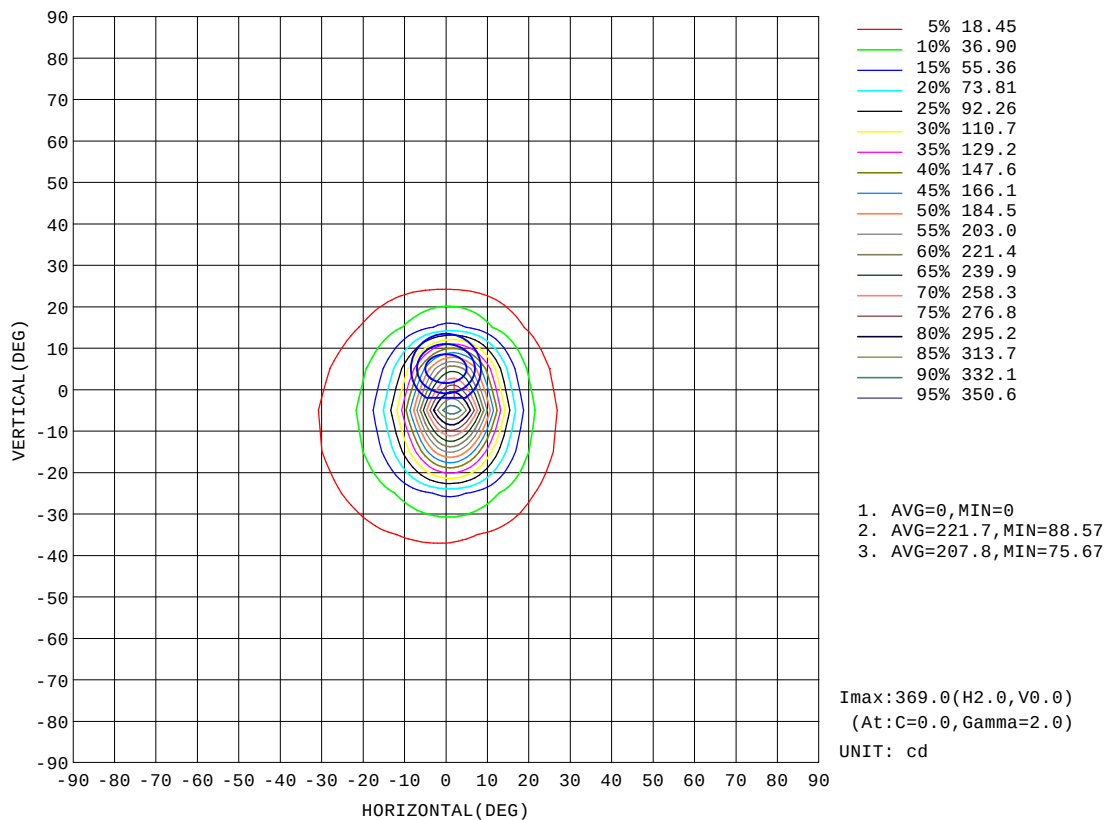
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	86	82	91	86	82	78
1.00	97	91	87	96	91	87	95	91	87	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	102	99	106	101	98	103	99	97	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
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:2026-09-16

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:8.200m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°



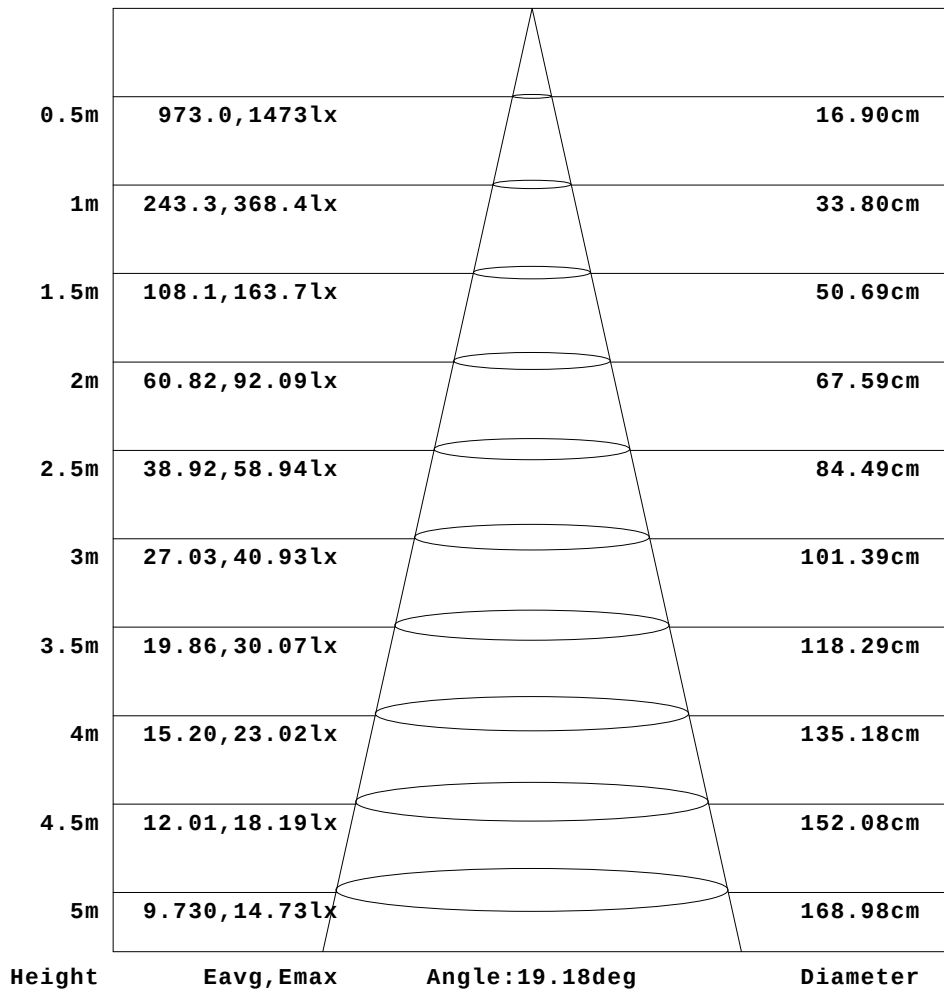
H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-16

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:8.200m [K=1.0000]
Remarks:

AAI Figure

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°

Flux out:23.76 lm



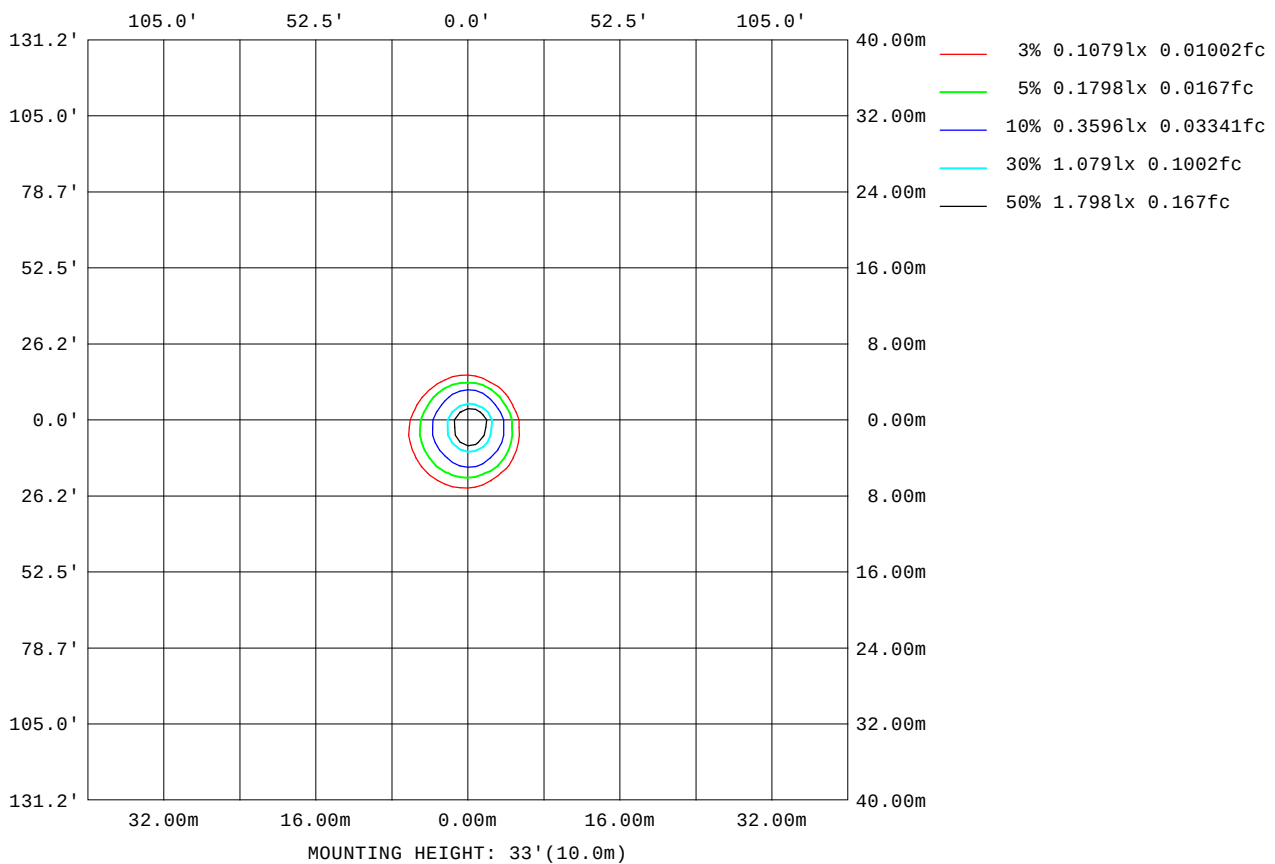
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-16

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:8.200m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-09-16

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: 8.200m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:150.25V I:0.0167A P:1.2264W PF:0.4899 Freq:50.00Hz Lamp Flux:81.0772x1 lm		
NAME: 2840	TYPE:1W-3000K	WEIGHT:
SPEC.:	DIM.: 33*33*70mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:19°

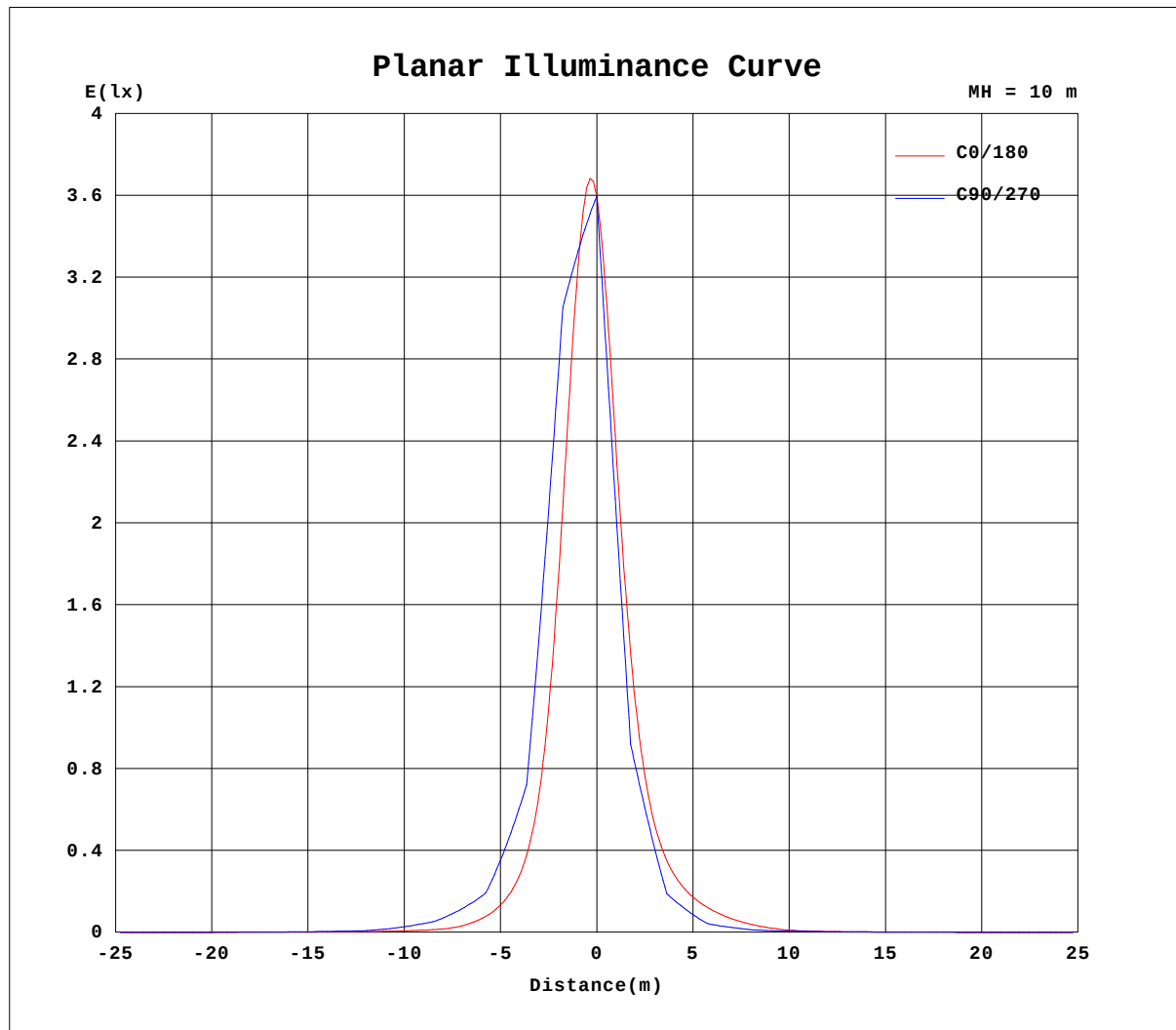
AvgL	cd/m2
L_0~180(65)av	34
L_0~180(75)av	51
L_0~180(85)av	141
L_90~270(65)av	35
L_90~270(75)av	51
L_90~270(85)av	0
L_45(65)av	34
L_45(75)av	50
L_45(85)av	58

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-16

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:8.200m [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: 2026-09-16

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: 8.200m [K=1.0000]
Remarks:

