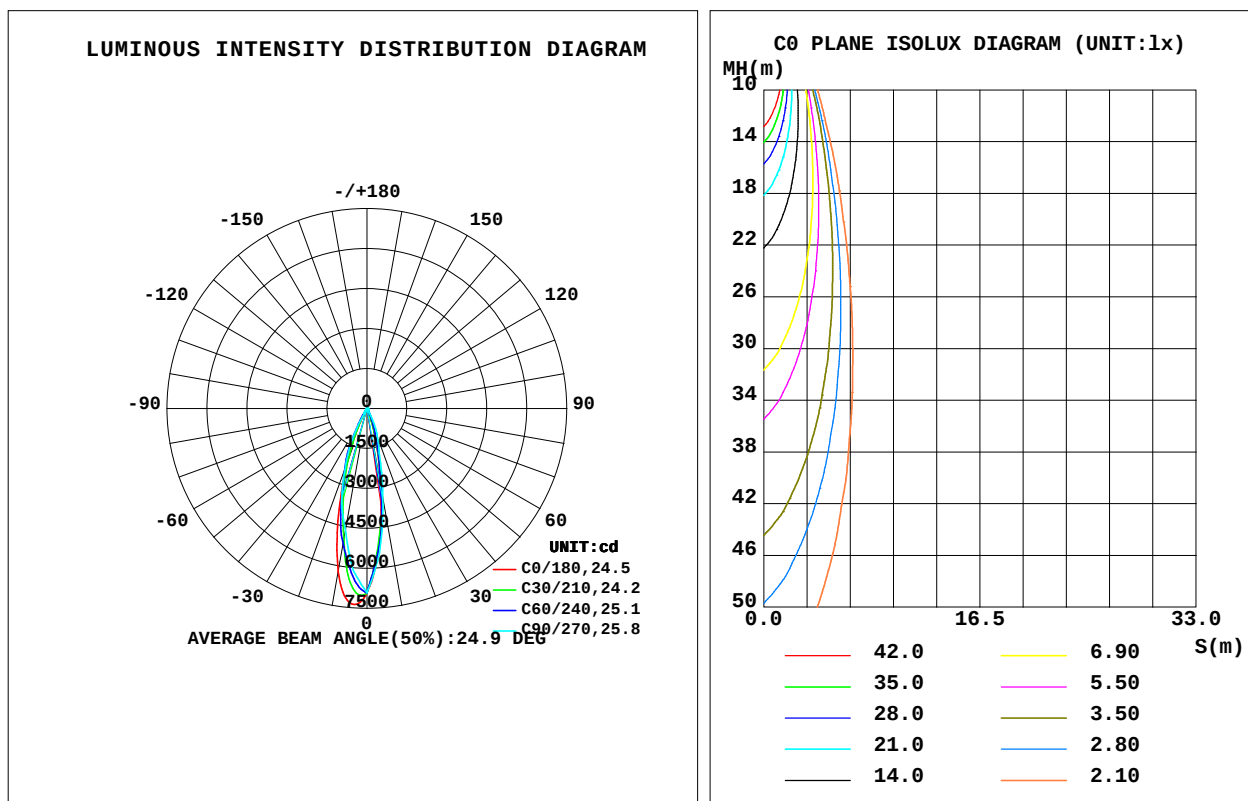


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.59 lm/W			
MODEL		I _{max} (cd)	7369	S/MH(C0/180)	0.52
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.51
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	1639.8	h UP, DN(C0-180)	0.0,42.1
NOMINAL FLUX(lm)	1639.83	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,57.9
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:2026-08-10

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:7.300m [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	3022	3142	3454	4324	6220	5145	4645	3712	0- 10	502.9	502.9	30.7, 30.7
20	485.8	610.6	1176	1108	2176	2032	2417	1197	10- 20	698.7	1202	73.3, 73.3
30	66.32	95.24	85.05	272.3	267.9	534.2	237.8	161.0	20- 30	311.4	1513	92.3, 92.3
40	34.76	30.12	51.22	42.63	55.27	58.38	102.0	35.71	30- 40	60.55	1574	96, 96
50	24.01	19.71	29.95	26.97	33.45	28.02	29.35	20.83	40- 50	27.14	1601	97.6, 97.6
60	14.89	13.19	21.23	17.38	20.77	16.45	19.85	13.34	50- 60	18.78	1620	98.8, 98.8
70	8.529	7.846	12.04	9.834	11.03	9.384	13.11	8.002	60- 70	12.70	1632	99.5, 99.5
80	5.438	2.819	0	2.944	6.181	3.852	0	3.807	70- 80	6.550	1639	99.9, 99.9
90	3.413	0	0	0	3.523	0	0	0	80- 90	1.050	1640	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): 1589.1 lm

%lum = 96.9%

%lamp = 96.9%

Conical surface Flux(120deg): 1619.5 lm

%lum = 98.8%

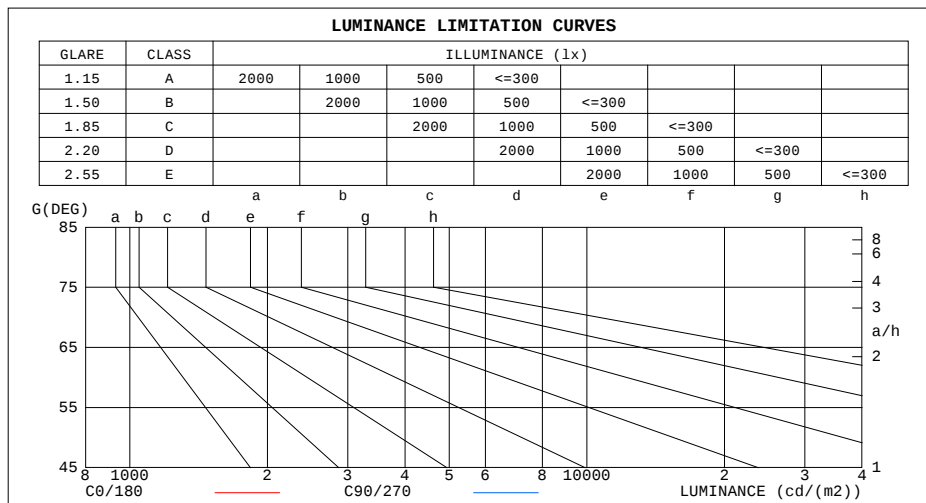
%lamp = 98.8%

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-10

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:7.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	466	0
80	313	0
75	260	289
70	249	352
65	264	397
60	298	425
55	336	451
50	374	466
45	405	491

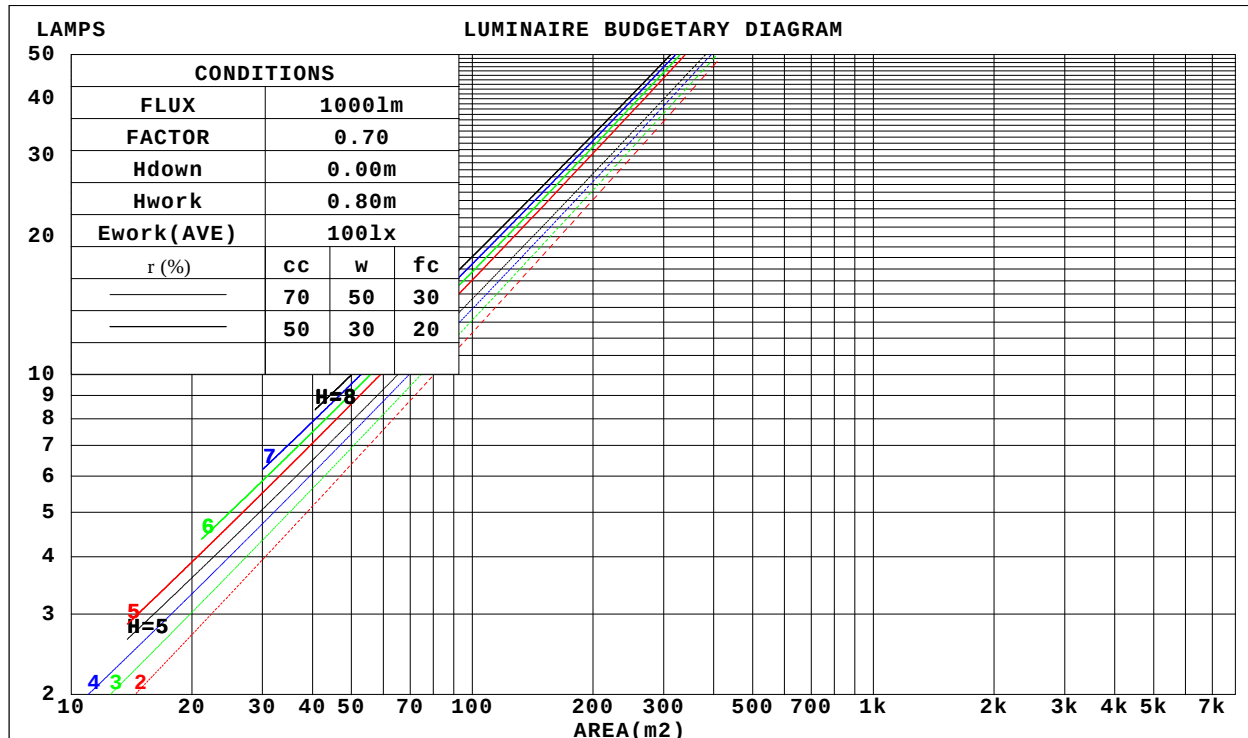
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	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	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.01	1.00	.99	.98	.97	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.89	.85	.92	.88	.85	.91	.87	.84	.89	.86	.84	.88	.85	.83	.82
6.0	.90	.85	.82	.89	.85	.81	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7.0	.86	.82	.79	.86	.81	.78	.85	.81	.78	.83	.80	.78	.83	.80	.77	.76
8.0	.83	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.76	.73	.80	.76	.73	.79	.76	.73	.79	.75	.73	.78	.75	.73	.72
10.0	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.71	.76	.73	.70	.69



H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	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	.148	.084	.027	.141	.080	.026	.129	.074	.024	.117	.068	.022	.107	.062	.020		
2.0	.138	.075	.023	.132	.073	.022	.122	.068	.021	.112	.063	.020	.103	.059	.018		
3.0	.128	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.100	.055	.017		
4.0	.120	.063	.018	.117	.061	.018	.109	.058	.017	.102	.055	.017	.096	.052	.016		
5.0	.113	.058	.017	.110	.057	.016	.104	.054	.016	.098	.052	.015	.093	.049	.015		
6.0	.107	.054	.015	.104	.053	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014		
7.0	.102	.050	.014	.099	.049	.014	.095	.048	.014	.090	.046	.013	.086	.045	.013		
8.0	.097	.047	.013	.095	.047	.013	.091	.045	.013	.087	.044	.013	.083	.043	.012		
9.0	.093	.045	.013	.091	.044	.012	.087	.043	.012	.084	.042	.012	.080	.041	.012		
10.0	.089	.043	.012	.087	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.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	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.065	.099	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.034	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.080	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.087	.056	.035	.075	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.082	.051	.031	.071	.044	.027	.049	.031	.019	.029	.018	.011	.009	.006	.004	

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm										
NAME: 6378-20W-3000K					TYPE:室内			WEIGHT:		
SPEC.:					DIM.: 60*55*297mm			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	-2.7	-2.0	-2.5	-1.8	-1.7	-0.6	0.1	-0.4	0.3	0.4
3H	-1.7	-1.0	-1.5	-0.9	-0.7	0.8	1.5	1.0	1.7	1.8
4H	-1.2	-0.6	-1.0	-0.4	-0.2	1.3	1.9	1.5	2.1	2.3
6H	-0.7	-0.2	-0.5	0.1	0.3	1.3	1.9	1.6	2.2	2.4
8H	-0.5	0.1	-0.2	0.4	0.6	1.3	1.9	1.6	2.1	2.4
12H	-0.1	0.4	0.2	0.7	1.0	1.2	1.8	1.5	2.0	2.3
4H 2H	-2.1	-1.5	-1.9	-1.3	-1.1	-0.4	0.3	-0.1	0.5	0.7
3H	-1.1	-0.5	-0.8	-0.3	-0.0	1.2	1.8	1.5	2.0	2.3
4H	-0.6	-0.1	-0.3	0.2	0.5	1.8	2.3	2.1	2.6	2.9
6H	-0.0	0.4	0.3	0.7	1.1	1.8	2.3	2.2	2.6	3.0
8H	0.3	0.7	0.7	1.0	1.4	1.8	2.2	2.2	2.5	2.9
12H	0.7	1.0	1.1	1.4	1.8	1.7	2.1	2.1	2.5	2.9
8H 4H	-0.3	0.1	0.1	0.4	0.8	1.8	2.2	2.2	2.6	2.9
6H	0.3	0.7	0.8	1.1	1.5	1.9	2.2	2.3	2.6	3.0
8H	0.7	1.0	1.2	1.5	1.9	1.8	2.1	2.3	2.5	3.0
12H	1.2	1.5	1.7	1.9	2.4	1.8	2.0	2.2	2.5	2.9
12H 4H	-0.4	0.0	0.0	0.4	0.8	1.8	2.2	2.2	2.5	2.9
6H	0.3	0.6	0.8	1.0	1.5	1.9	2.2	2.3	2.6	3.0
8H	0.7	1.0	1.2	1.4	1.9	1.8	2.1	2.3	2.5	3.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				
1.5H	+ 0.5 / - 0.7					+ 0.9 / - 0.4				
2.0H	+ 1.1 / - 1.2					+ 0.6 / - 1.0				

CIE Pub.117, 1640 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)
Area: 0.1 m2

H_(b) Range:-90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-10

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:7.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

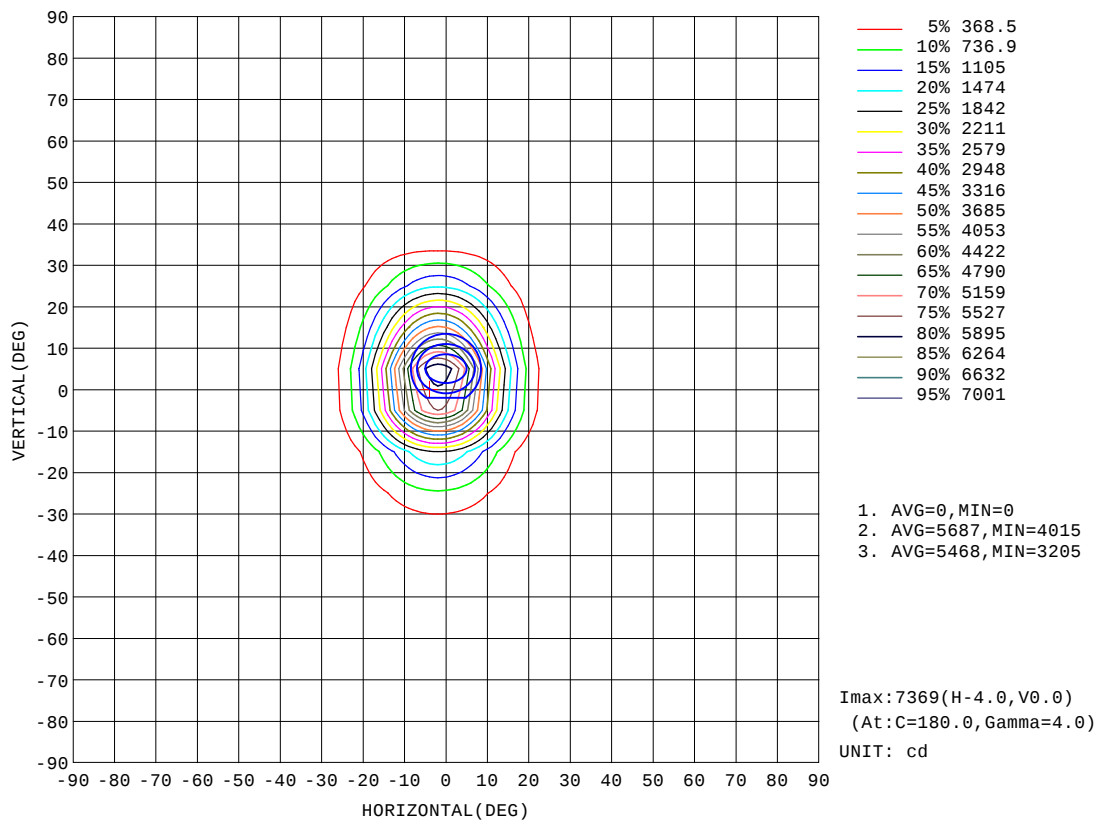
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	79	89	83	79	88	83	79	76
0.80	96	91	87	96	90	87	94	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	95	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
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:2026-08-10

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:7.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°



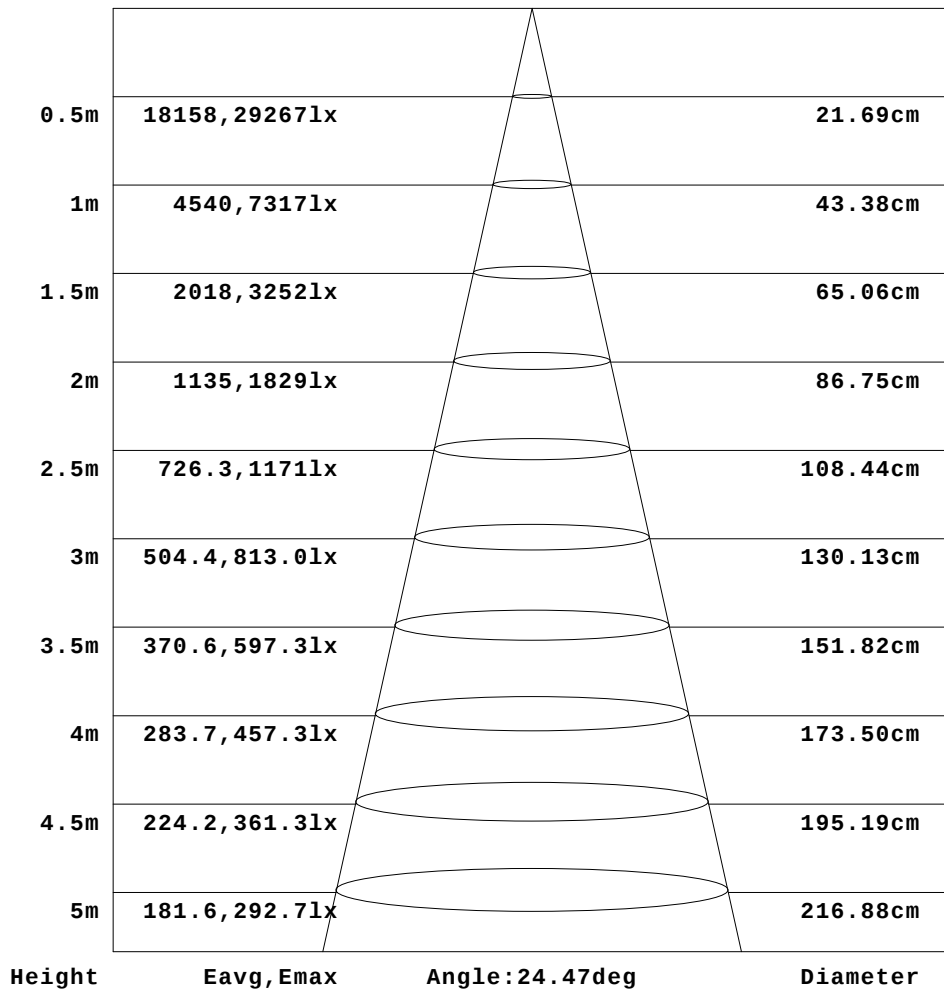
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

Flux out:700.9 lm



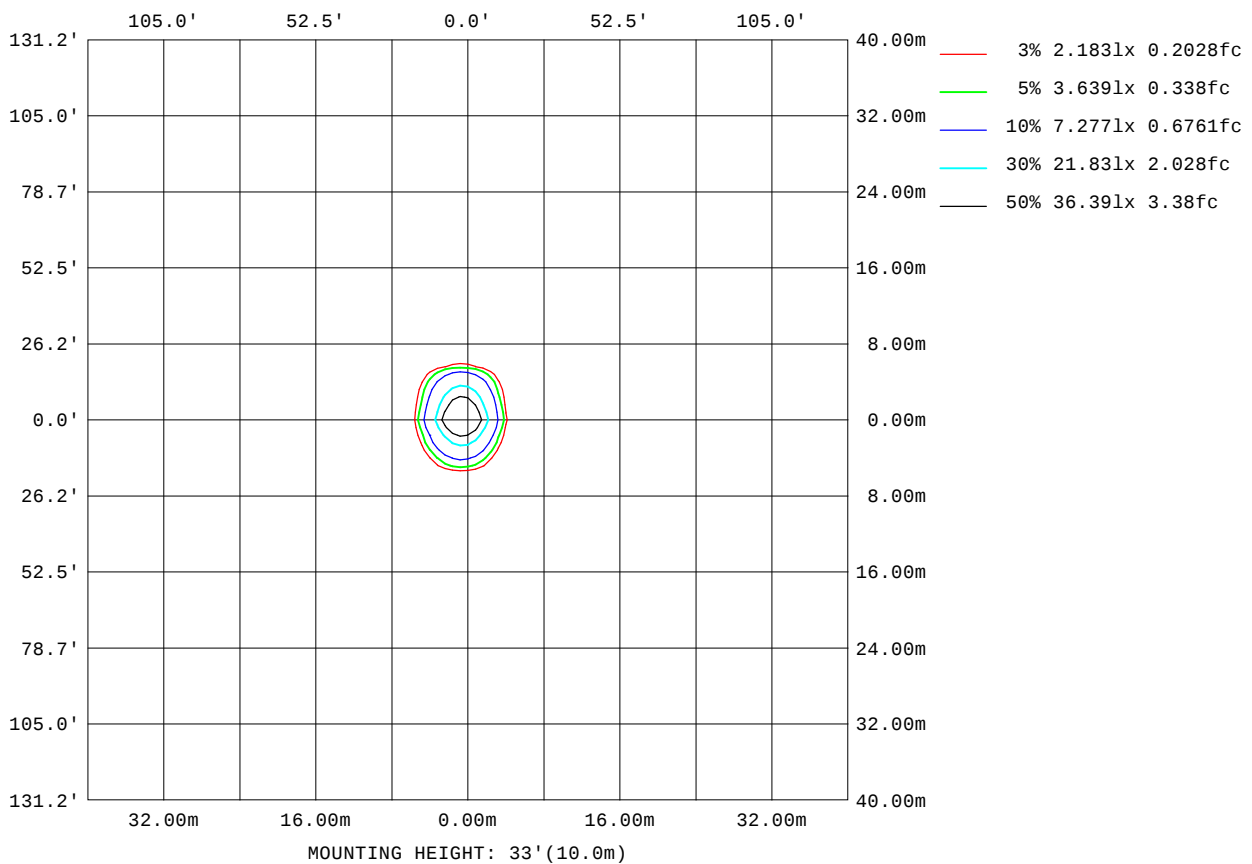
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	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: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.28V I:0.1971A P:20.098W PF:0.4628 Freq:50.00Hz Lamp Flux:1639.83x1 lm		
NAME: 6378-20W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 60*55*297mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:24°

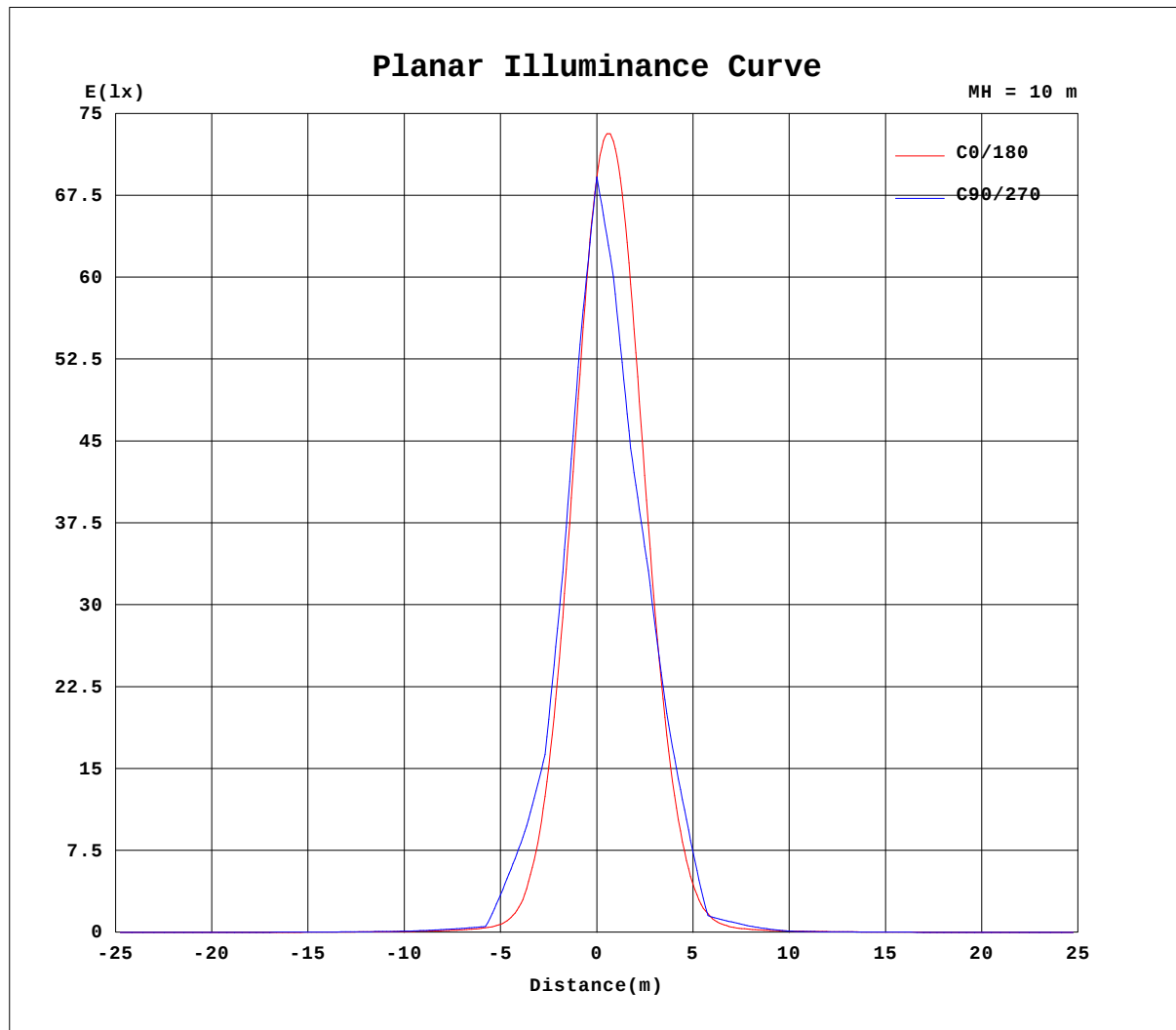
AvgL	cd/m2
L_0~180(65)av	315
L_0~180(75)av	283
L_0~180(85)av	509
L_90~270(65)av	395
L_90~270(75)av	334
L_90~270(85)av	0
L_45(65)av	277
L_45(75)av	238
L_45(85)av	0

Standard: GB/T 29293-2012

H_(b) Range:-90 - 90DEG
 H_(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-08-10

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:7.300m [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: 2026-08-10

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: 7.300m [K=1.0000]
Remarks:

