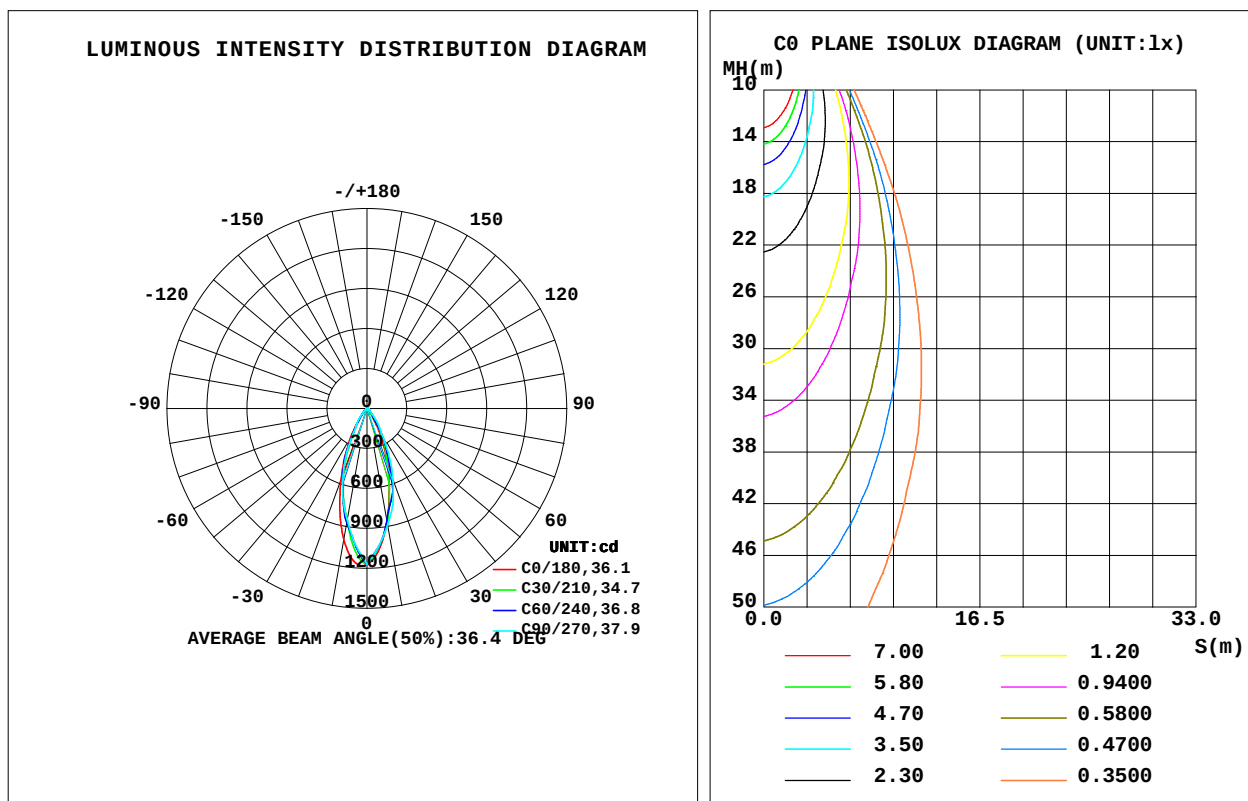


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.45 lm/W			
MODEL		I _{max} (cd)	1181	S/MH(C0/180)	0.63
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.58
RATED VOLTAGE(V)	85-265V	TOTAL FLUX(lm)	552.66	h UP, DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	552.657	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	100.0	CIBSE SHR MAX	0.65



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:7.500m [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	864.0	862.3	888.6	883.3	1003	863.6	854.0	840.7	0- 10	94.49	94.49	17.1, 17.1
20	460.3	531.6	571.9	532.0	572.7	505.2	523.7	495.3	10- 20	191.1	285.6	51.7, 51.7
30	143.2	196.3	219.1	235.8	236.2	220.8	178.3	181.0	20- 30	156.8	442.3	80, 80
40	28.24	34.65	85.64	55.44	58.51	54.35	72.09	34.88	30- 40	68.20	510.5	92.4, 92.4
50	11.10	11.58	15.84	19.37	14.67	19.54	16.08	11.90	40- 50	20.95	531.5	96.2, 96.2
60	7.785	7.259	9.680	9.114	11.11	9.322	10.23	7.598	50- 60	9.668	541.1	97.9, 97.9
70	4.280	4.420	6.012	5.840	7.169	6.099	6.611	4.727	60- 70	7.097	548.2	99.2, 99.2
80	1.938	1.777	0	2.260	3.365	2.445	0	1.938	70- 80	3.906	552.1	99.9, 99.9
90	0.9509	0	0	0	0.9805	0	0	0	80- 90	0.5341	552.7	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): 524.59 lm

%lum = 94.9%

%lamp = 94.9%

Conical surface Flux(120deg): 541.12 lm

%lum = 97.9%

%lamp = 97.9%

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:7.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	115	0
80	112	0
75	114	163
70	125	176
65	142	187
60	156	194
55	165	225
50	173	246
45	179	270

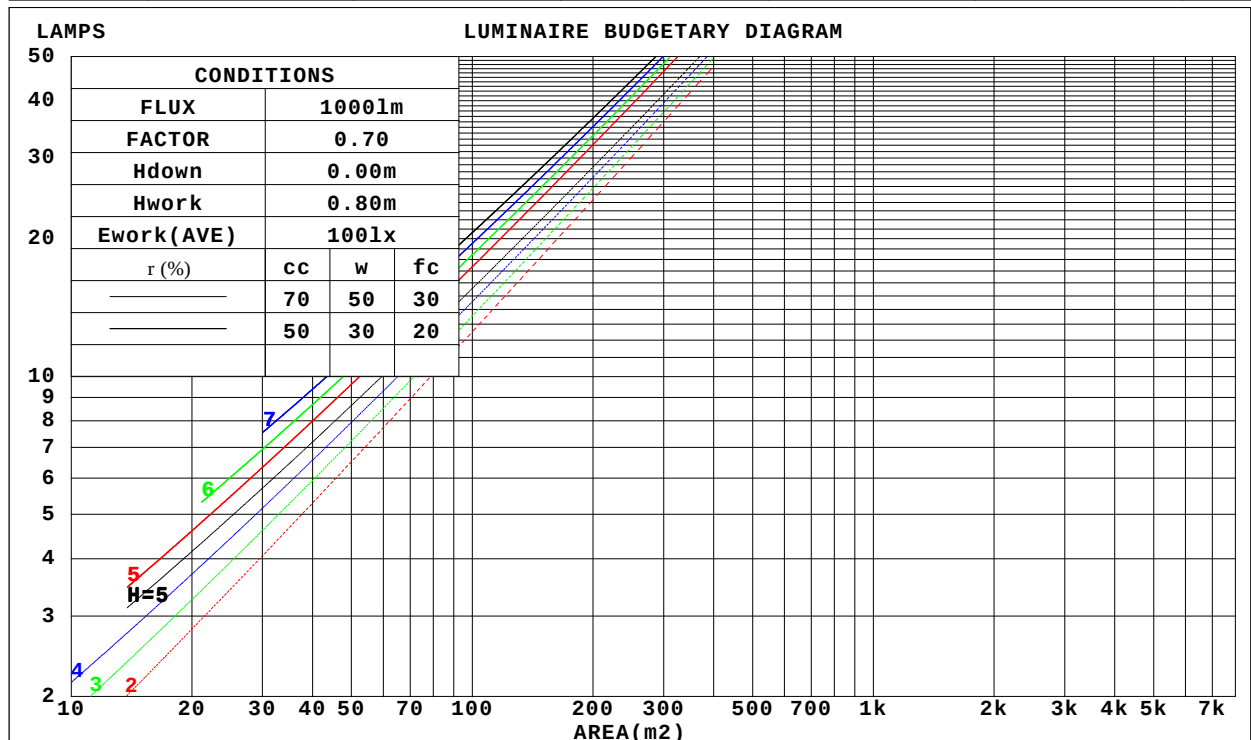
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-08-10

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: 7.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

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	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.88	.94	.90	.87	.91	.88	.86	.89	.86	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.79	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.80	.76	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.81	.76	.73	.80	.75	.72	.79	.75	.72	.77	.74	.71	.70
7.0	.78	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.74	.70	.68	.66
8.0	.74	.69	.65	.74	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
9.0	.71	.66	.62	.70	.65	.62	.70	.65	.62	.69	.64	.61	.68	.64	.61	.60
10.0	.68	.63	.59	.67	.62	.59	.67	.62	.59	.66	.62	.59	.65	.61	.58	.57



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

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: 7.500m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

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	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.081	.026	.130	.076	.024	
2.0	.163	.089	.027	.157	.087	.027	.147	.082	.025	.137	.077	.024	.128	.072	.023	
3.0	.154	.082	.024	.149	.080	.024	.140	.076	.023	.132	.072	.022	.124	.069	.021	
4.0	.145	.075	.022	.141	.074	.022	.133	.071	.021	.126	.068	.020	.120	.065	.020	
5.0	.137	.070	.020	.134	.069	.020	.127	.066	.020	.121	.064	.019	.115	.062	.019	
6.0	.131	.065	.019	.128	.064	.019	.122	.062	.018	.116	.060	.018	.111	.059	.017	
7.0	.124	.061	.017	.122	.061	.017	.116	.059	.017	.112	.057	.017	.107	.056	.016	
8.0	.119	.058	.016	.116	.057	.016	.112	.056	.016	.107	.054	.016	.103	.053	.015	
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.100	.051	.015	
10.0	.109	.052	.014	.107	.052	.014	.103	.051	.014	.100	.049	.014	.096	.048	.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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.032	.060	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.054	.028	.079	.046	.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: 2026-08-10

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: 7.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm											
NAME: 6857-8W-3000K					TYPE:室内			WEIGHT:			
SPEC.:					DIM.: 72*72*82mm			SERIAL No.:01			
MFR.: NORDECOR					SUR.:			Shielding Angle:35°			
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	3.6	4.4	3.8	4.6	4.8	6.6	7.4	6.8	7.6	7.8	
	3H	4.0	4.8	4.3	5.0	5.2	6.9	7.7	7.1	7.9	
	4H	4.2	5.0	4.5	5.2	5.4	7.0	7.8	7.3	8.0	
	6H	4.4	5.1	4.7	5.4	5.6	7.0	7.7	7.3	8.0	
	8H	4.5	5.2	4.8	5.4	5.7	7.0	7.7	7.3	7.9	
	12H	4.5	5.2	4.9	5.5	5.7	6.9	7.6	7.2	7.9	
4H	2H	3.7	4.5	4.0	4.7	4.9	6.5	7.2	6.7	7.4	
	3H	4.3	5.0	4.6	5.2	5.5	6.9	7.6	7.2	7.9	
	4H	4.6	5.2	4.9	5.5	5.8	7.2	7.8	7.5	8.1	
	6H	4.9	5.4	5.2	5.7	6.1	7.2	7.7	7.5	8.0	
	8H	5.0	5.5	5.4	5.8	6.2	7.1	7.6	7.5	8.0	
	12H	5.1	5.5	5.5	5.9	6.3	7.1	7.5	7.5	7.9	
8H	4H	4.7	5.2	5.1	5.6	5.9	7.2	7.6	7.5	8.0	
	6H	5.1	5.5	5.5	5.9	6.3	7.2	7.6	7.6	8.0	
	8H	5.3	5.6	5.7	6.1	6.5	7.1	7.5	7.6	7.9	
	12H	5.5	5.8	5.9	6.2	6.7	7.0	7.4	7.5	7.8	
12H	4H	4.7	5.1	5.1	5.5	5.9	7.1	7.6	7.5	7.9	
	6H	5.1	5.4	5.5	5.8	6.3	7.1	7.5	7.6	7.9	
	8H	5.3	5.6	5.7	6.0	6.5	7.1	7.4	7.5	7.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.2					+ 2.8 / - 3.1					
1.5H	+ 2.1 / - 0.9					+ 5.2 / - 3.1					
2.0H	+ 0.5 / - 0.5					+ 0.8 / - 0.8					

CIE Pub.117, 552.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)
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: 7.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

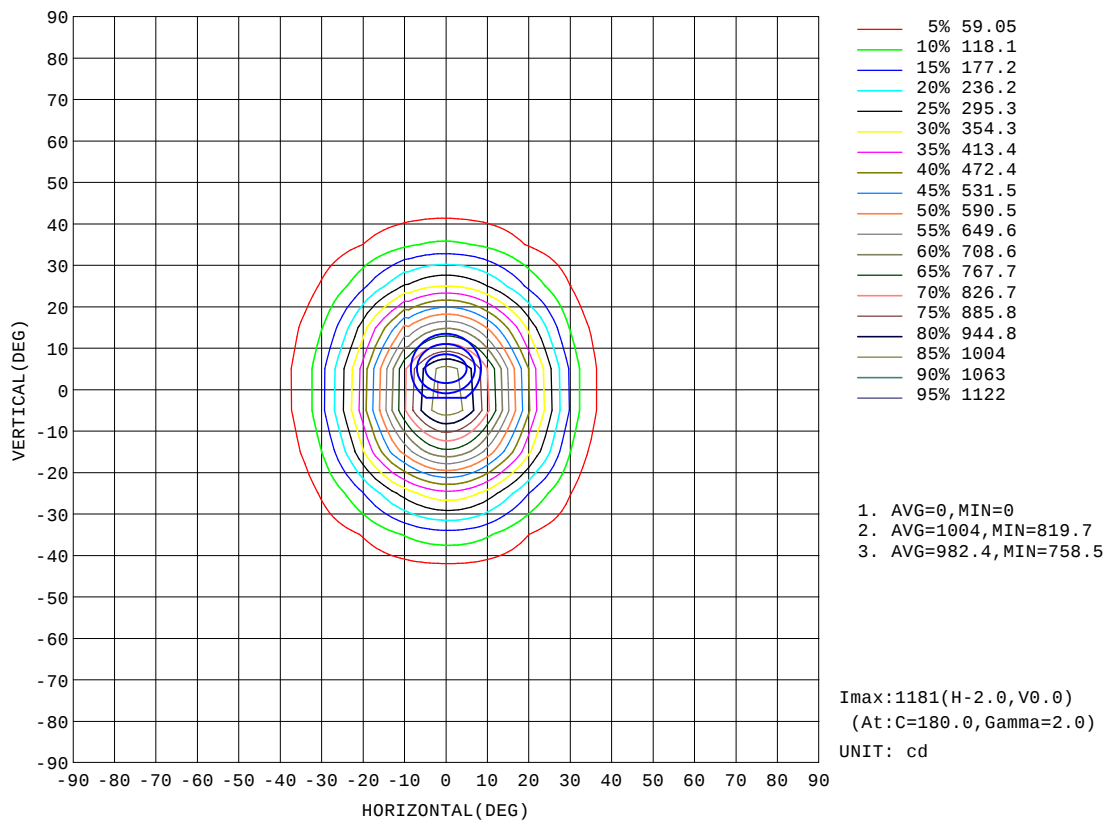
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	80	77	86	80	76	86	80	76	73
0.80	94	88	84	94	88	84	92	87	84	80
1.00	99	93	89	98	93	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°



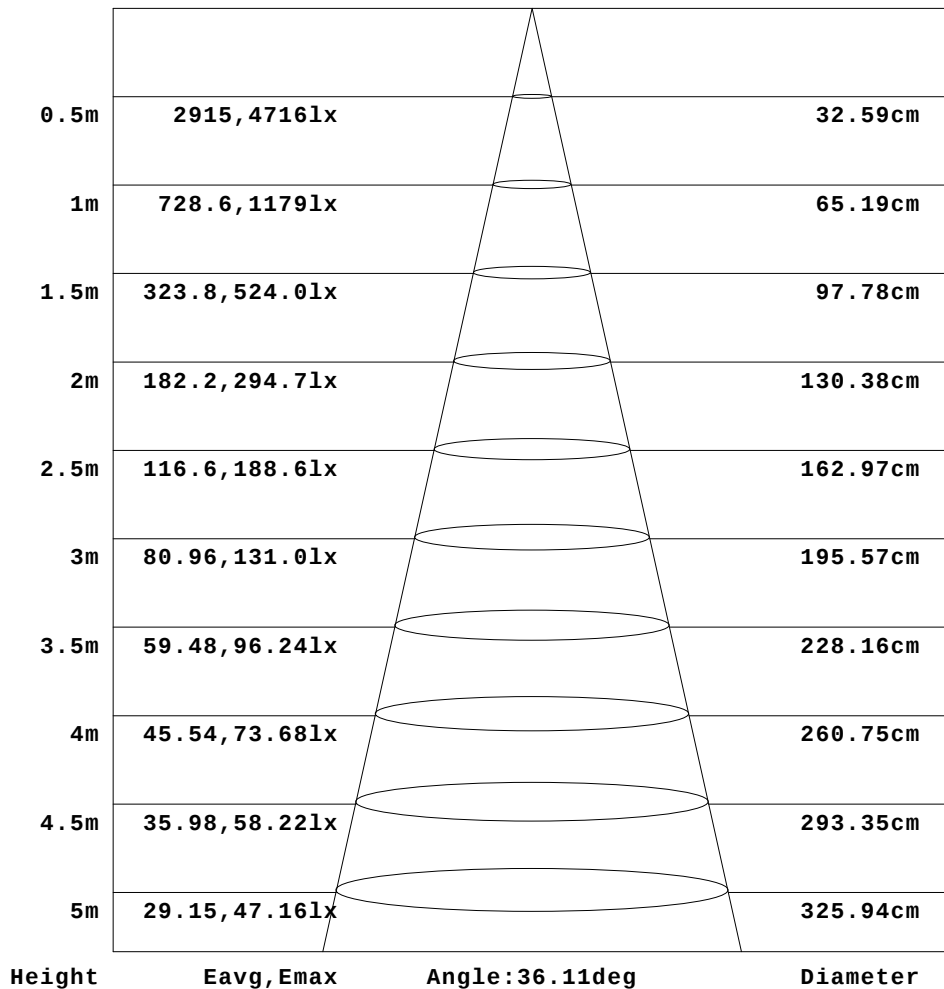
H_(b) Range: -90 - 90DEG
H_(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-08-10

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:7.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

Flux out:256.3 lm



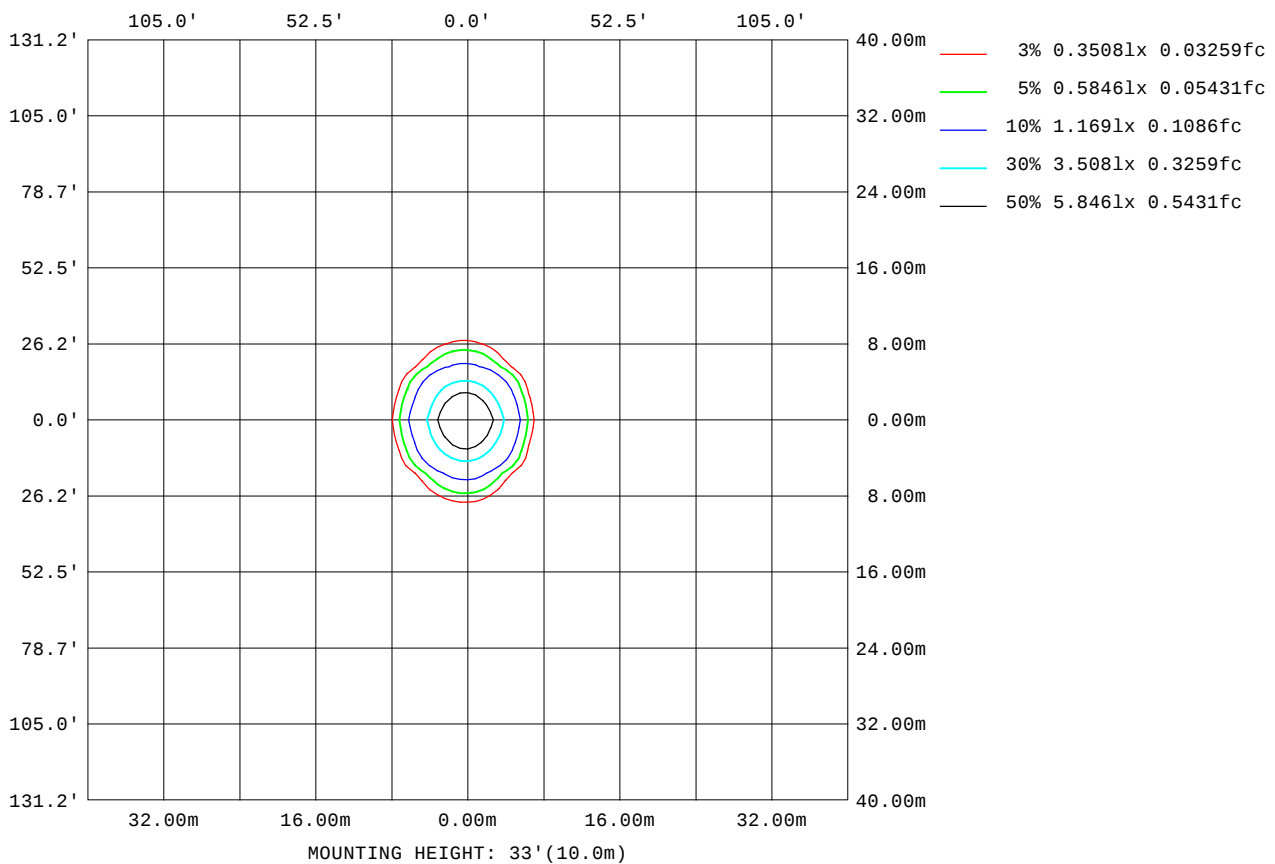
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 7.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°



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: 7.500m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.23V I:0.0837A P:8.3171W PF:0.4513 Freq:50.00Hz Lamp Flux:552.657x1 lm		
NAME: 6857-8W-3000K	TYPE:室内	WEIGHT:
SPEC.:	DIM.: 72*72*82mm	SERIAL No.:01
MFR.: NORDECOR	SUR.:	Shielding Angle:35°

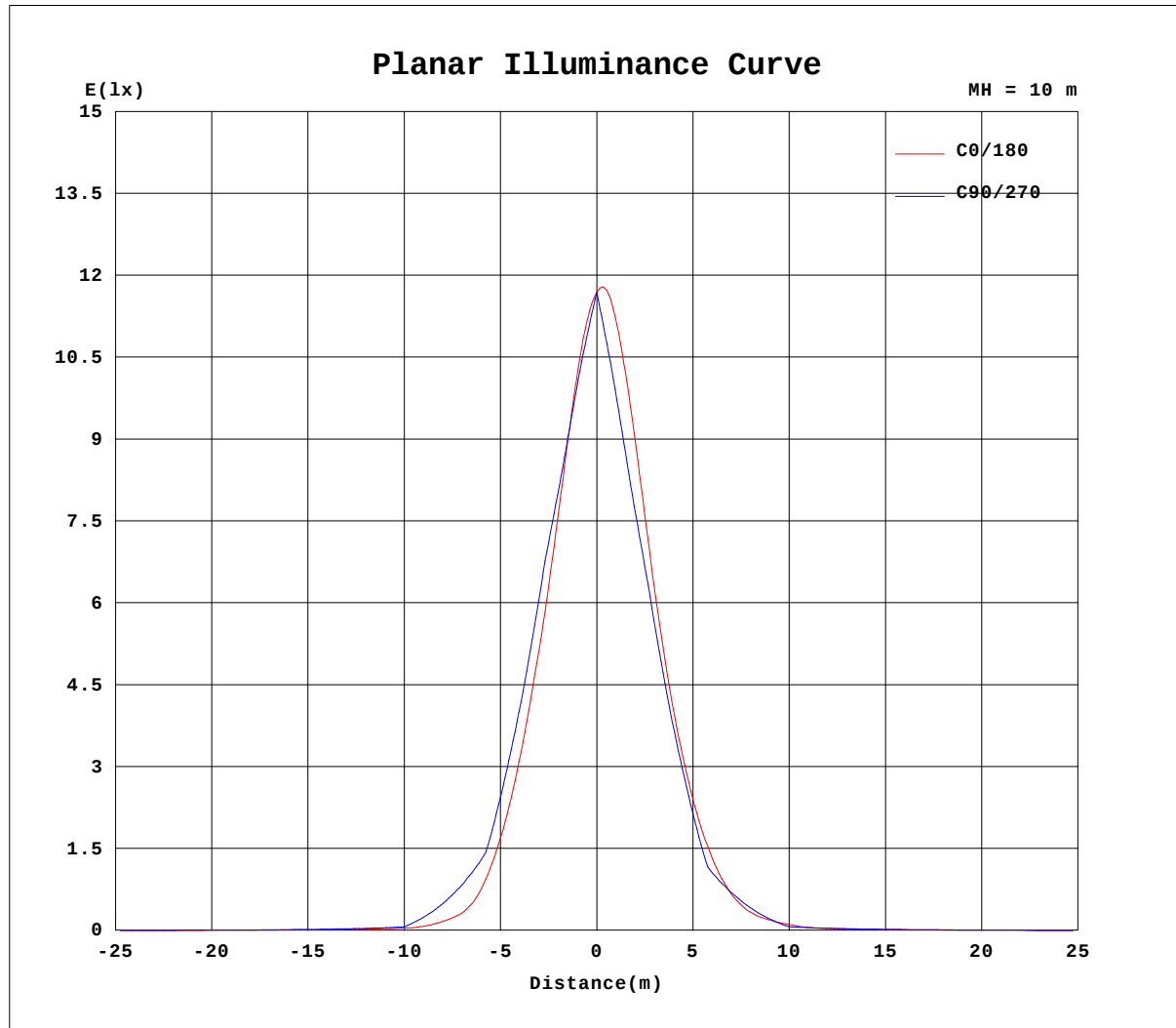
AvgL	cd/m2
L_0~180(65)av	180
L_0~180(75)av	154
L_0~180(85)av	178
L_90~270(65)av	194
L_90~270(75)av	176
L_90~270(85)av	0
L_45(65)av	161
L_45(75)av	147
L_45(85)av	0

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:7.500m [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: 7.500m [K=1.0000]
Remarks:

