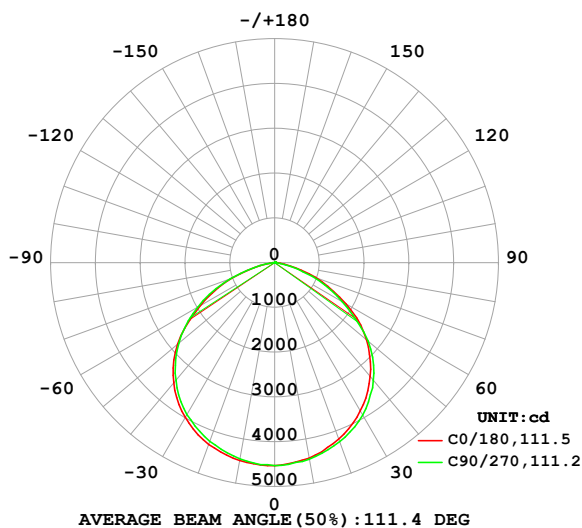


LUMINAIRE PHOTOMETRIC TEST REPORT

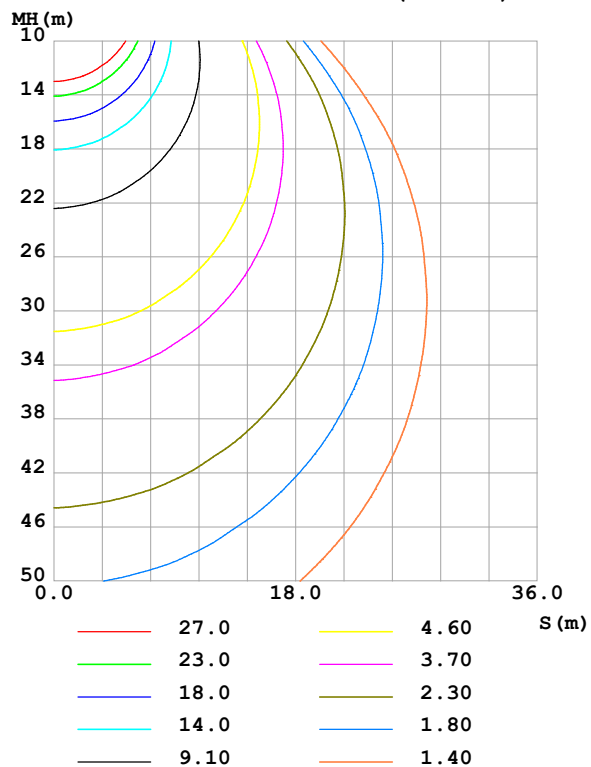
Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 125.71 lm/W
MODEL	ASD-FLD-CORE-100AM-BK	I _{max} (cd)	4534	S/MH (C0/180)	1.31	
NOMINAL POWER(W)	100	LOR (%)	100.0	S/MH (C90/270)	1.29	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	12418	η UP,DN (C0-180)	0.2,48.9	
NOMINAL FLUX(lm)	12417.6	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,50.9	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	119.9	η down (%)	99.7	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 18.400m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	4434	4456	4489	4449					0- 10	428.5	428.5	3.45,3.45
20	4195	4255	4319	4243					10- 20	1233	1662	13.4,13.4
30	3825	3932	3987	3920					20- 30	1891	3552	28.6,28.6
40	3320	3433	3506	3427					30- 40	2308	5860	47.2,47.2
50	2679	2724	2831	2794					40- 50	2399	8259	66.5,66.5
60	1832	1744	1920	1975					50- 60	2073	10332	83.2,83.2
70	974.8	900.9	1018	1050					60- 70	1411	11743	94.6,94.6
80	230.8	142.2	210.8	200.6					70- 80	579.6	12323	99.2,99.2
90	1.288	0.7837	0.7402	0.7089					80- 90	61.62	12384	99.7,99.7
100	2.027	2.096	1.153	0.8368					90-100	1.142	12385	99.7,99.7
110	3.892	4.024	2.305	2.065					100-110	2.392	12388	99.8,99.8
120	5.867	5.978	3.949	3.822					110-120	3.934	12392	99.8,99.8
130	7.456	7.764	5.869	5.807					120-130	5.220	12397	99.8,99.8
140	8.993	9.189	7.678	7.676					130-140	5.851	12403	99.9,99.9
150	10.34	10.33	9.213	9.381					140-150	5.717	12408	99.9,99.9
160	11.16	11.28	10.45	10.64					150-160	4.790	12413	100,100
170	11.76	11.87	11.35	11.31					160-170	3.184	12416	100,100
180	11.65	12.06	11.84	11.87					170-180	1.118	12418	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7312.9 lm

%lum = 58.9%

%lamp = 58.9%

Conical surface Flux(120deg): 10332 lm

%lum = 83.2%

%lamp = 83.2%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2026-03-13

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:18.400m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz

Lamp Flux:12417.6x1 lm

NAME: ASD-FLD-CORE-100AM-BK

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

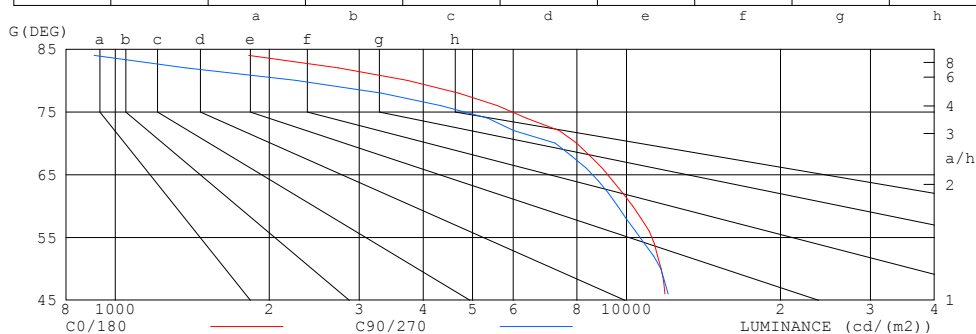
MFR.: ASD Lighting Corp

SUR.:

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2187	1091
80	3725	2254
75	6780	5692
70	7990	7250
65	9742	9134
60	10273	9598
55	11608	11113
50	11682	11663
45	12223	12406

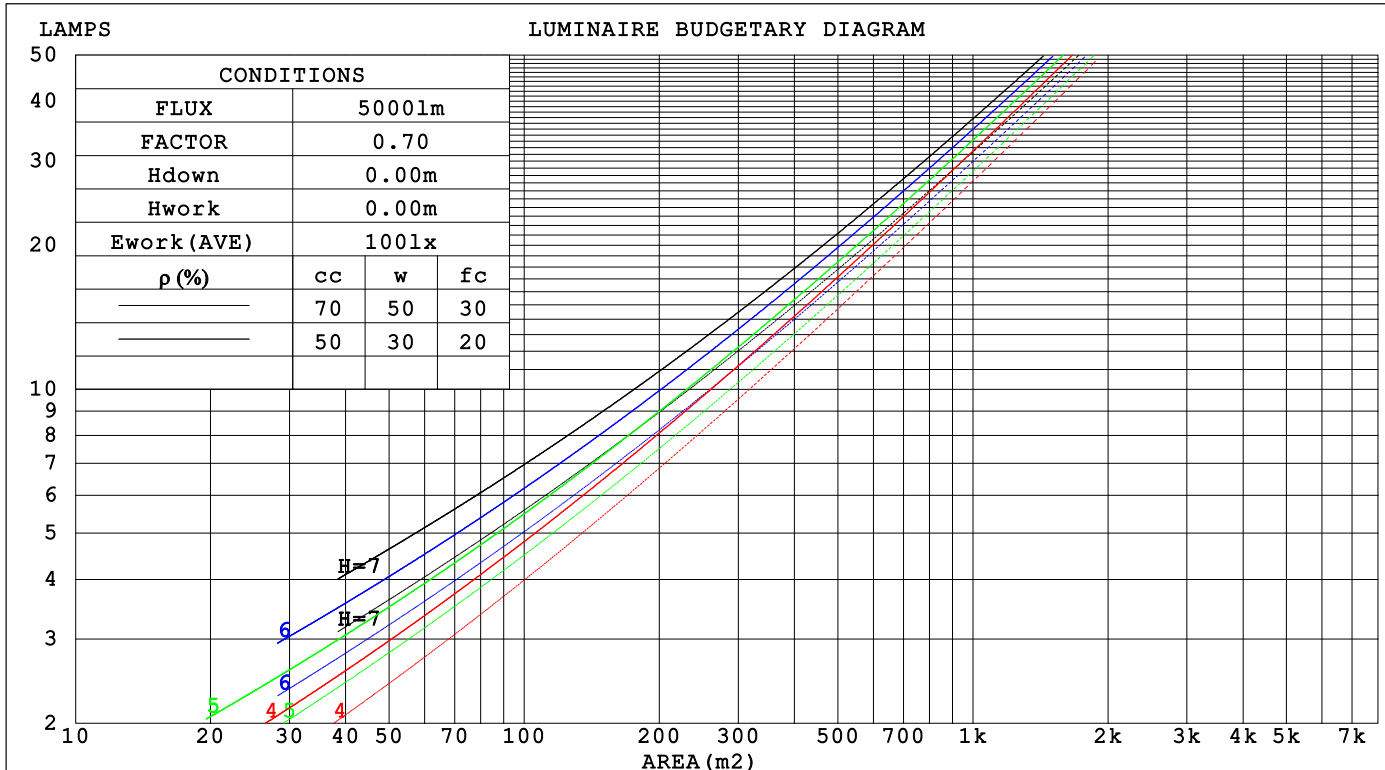
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.282	.160	.051	.275	.157	.050	.261	.150	.048	.249	.144	.046	.238	.138	.044		
2.0	.273	.150	.046	.267	.147	.045	.255	.142	.044	.244	.137	.043	.234	.133	.042		
3.0	.257	.137	.041	.251	.135	.040	.241	.131	.040	.231	.127	.039	.222	.123	.038		
4.0	.239	.124	.037	.235	.123	.036	.225	.120	.036	.217	.117	.035	.209	.114	.035		
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.031		
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.178	.091	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.150	.074	.021	.145	.073	.021		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021		
1.0	.180	.158	.139	.154	.136	.119	.106	.094	.083	.061	.054	.048	.019	.017	.016		
2.0	.172	.134	.102	.147	.115	.088	.101	.080	.062	.058	.046	.036	.019	.015	.012		
3.0	.164	.116	.078	.141	.100	.068	.097	.070	.048	.056	.041	.028	.018	.013	.009		
4.0	.157	.103	.062	.134	.089	.054	.092	.062	.038	.053	.036	.022	.017	.012	.007		
5.0	.149	.092	.050	.128	.080	.044	.088	.056	.031	.051	.033	.018	.016	.011	.006		
6.0	.142	.084	.042	.122	.073	.037	.084	.051	.026	.049	.030	.015	.016	.010	.005		
7.0	.136	.077	.036	.117	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004		
8.0	.130	.071	.031	.112	.062	.027	.077	.043	.019	.045	.026	.012	.015	.008	.004		
9.0	.124	.066	.028	.107	.058	.024	.074	.041	.017	.043	.024	.010	.014	.008	.003		
10.0	.118	.062	.025	.102	.054	.022	.071	.038	.015	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm										
NAME: ASD-FLD-CORE-100AM-BK					TYPE:			WEIGHT:		
SPEC.: 5000K					DIM.:			SERIAL No.: 027		
MFR.: ASD Lighting Corp					SUR.:			Shielding Angle:		
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	22.1	23.6	22.3	23.8	24.0	21.9	23.4	22.2	23.6	23.8
3H	23.2	24.6	23.5	24.8	25.0	22.9	24.3	23.2	24.5	24.8
4H	23.5	24.8	23.8	25.0	25.3	23.1	24.4	23.5	24.7	24.9
6H	23.6	24.8	23.9	25.1	25.3	23.1	24.4	23.5	24.6	24.9
8H	23.6	24.7	23.9	25.0	25.3	23.1	24.3	23.4	24.6	24.8
12H	23.5	24.6	23.9	24.9	25.2	23.1	24.2	23.4	24.5	24.8
4H 2H	22.5	23.8	22.9	24.1	24.3	22.4	23.7	22.7	23.9	24.2
3H	23.8	24.9	24.2	25.2	25.5	23.6	24.7	23.9	25.0	25.3
4H	24.2	25.2	24.5	25.5	25.8	23.8	24.9	24.2	25.2	25.5
6H	24.3	25.2	24.7	25.6	25.9	23.9	24.8	24.3	25.1	25.5
8H	24.3	25.1	24.7	25.5	25.9	23.9	24.7	24.3	25.1	25.4
12H	24.3	25.0	24.7	25.4	25.8	23.8	24.6	24.2	25.0	25.4
8H 4H	24.2	25.1	24.6	25.4	25.8	23.9	24.8	24.3	25.1	25.5
6H	24.4	25.1	24.9	25.5	25.9	24.0	24.7	24.5	25.1	25.5
8H	24.4	25.0	24.9	25.5	25.9	24.0	24.6	24.5	25.0	25.5
12H	24.4	24.9	24.9	25.4	25.9	24.0	24.5	24.4	24.9	25.4
12H 4H	24.2	25.0	24.6	25.3	25.7	23.9	24.7	24.3	25.0	25.5
6H	24.4	25.0	24.8	25.4	25.9	24.0	24.6	24.5	25.0	25.5
8H	24.4	24.9	24.9	25.4	25.8	24.0	24.5	24.5	24.9	25.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.5					+ 0.3 / - 0.5				
2.0H	+ 0.5 / - 0.4					+ 0.6 / - 0.5				

CIE Pub.117, 12418 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 8.8$)
Area: 0.36 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

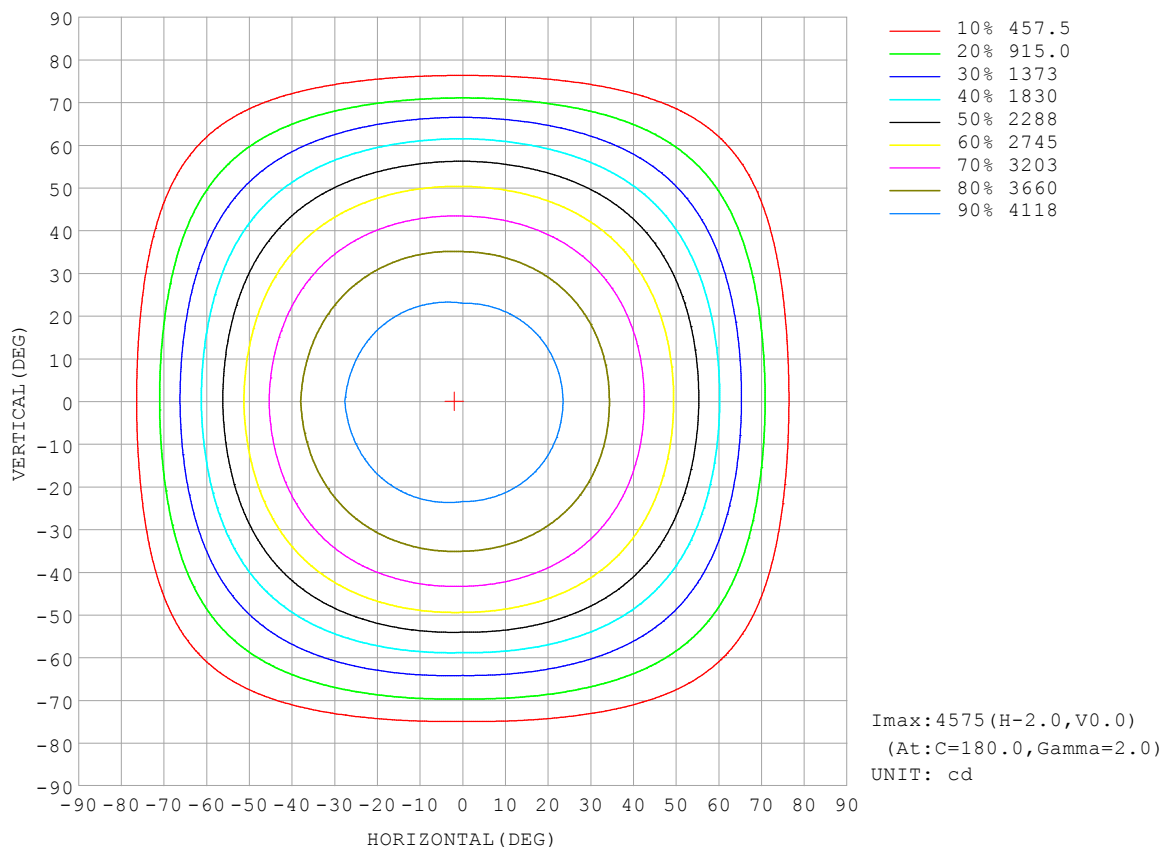
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	47	40	34
0.80	69	58	51	68	57	50	66	57	50	43
1.00	78	67	60	77	66	60	74	68	59	52
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	73	85	78	72	65
2.00	97	89	83	95	87	82	91	85	80	73
2.50	100	93	88	98	92	87	95	89	85	77
3.00	104	97	92	101	96	91	98	93	89	81
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 2026-03-13

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 18.400m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

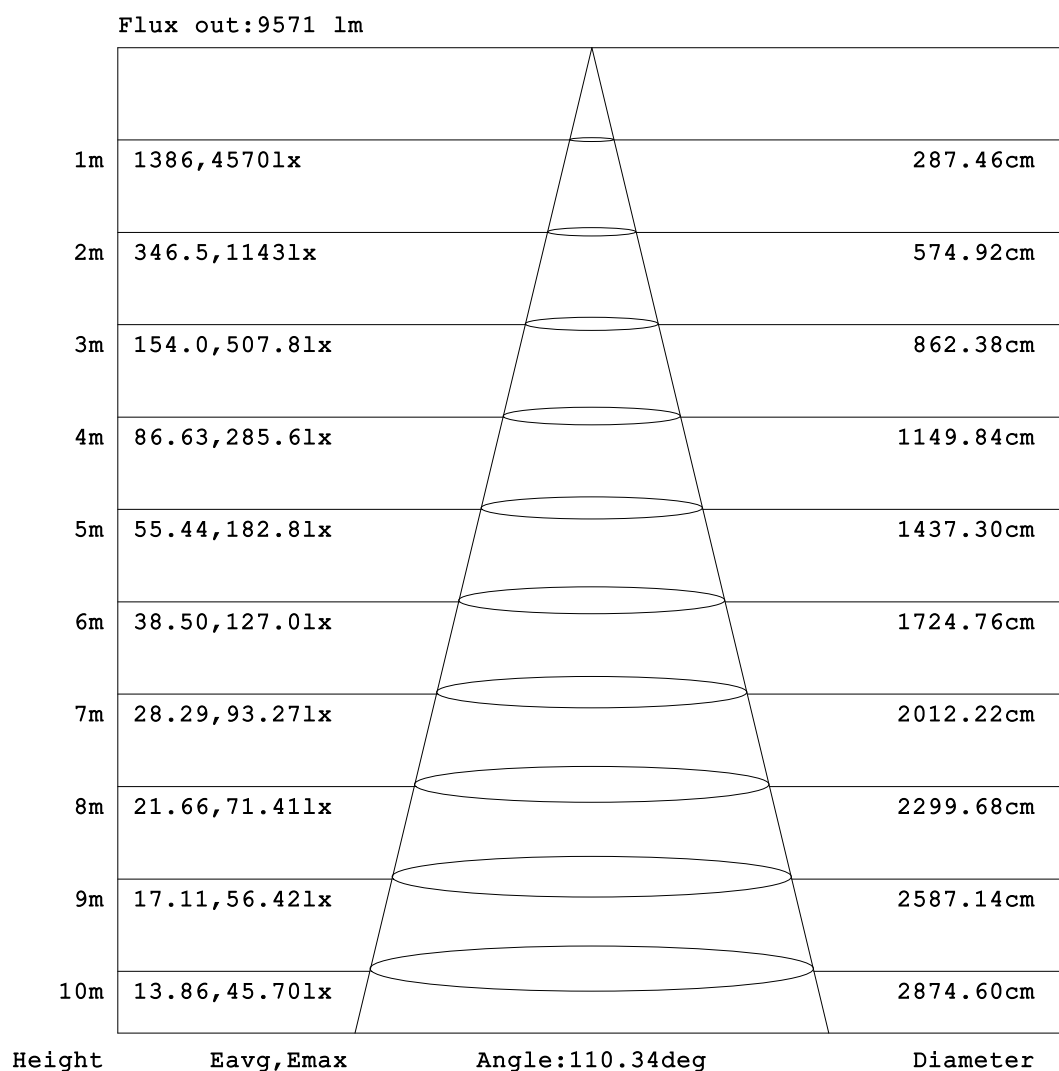


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



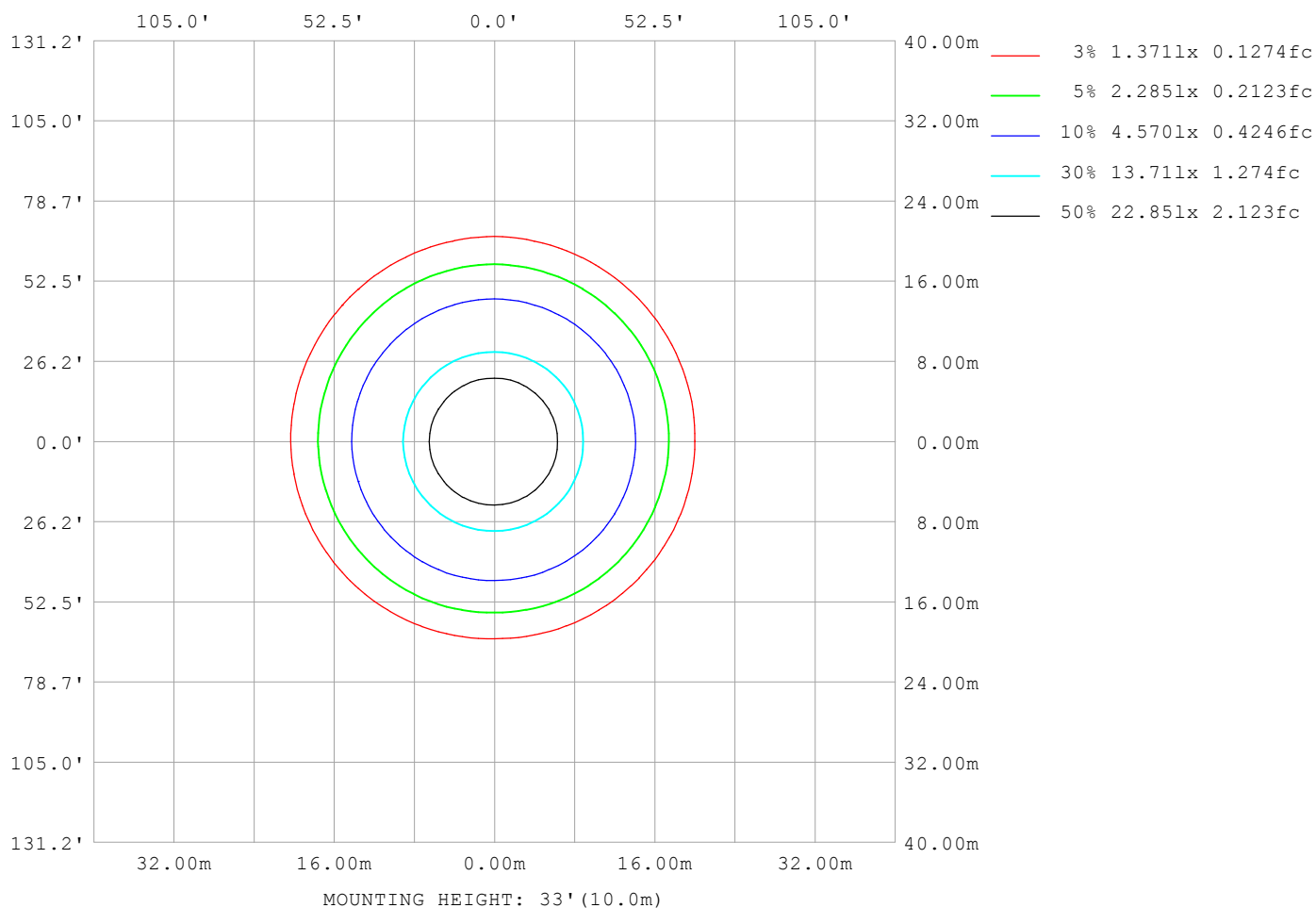
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2026-03-13

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:18.400m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

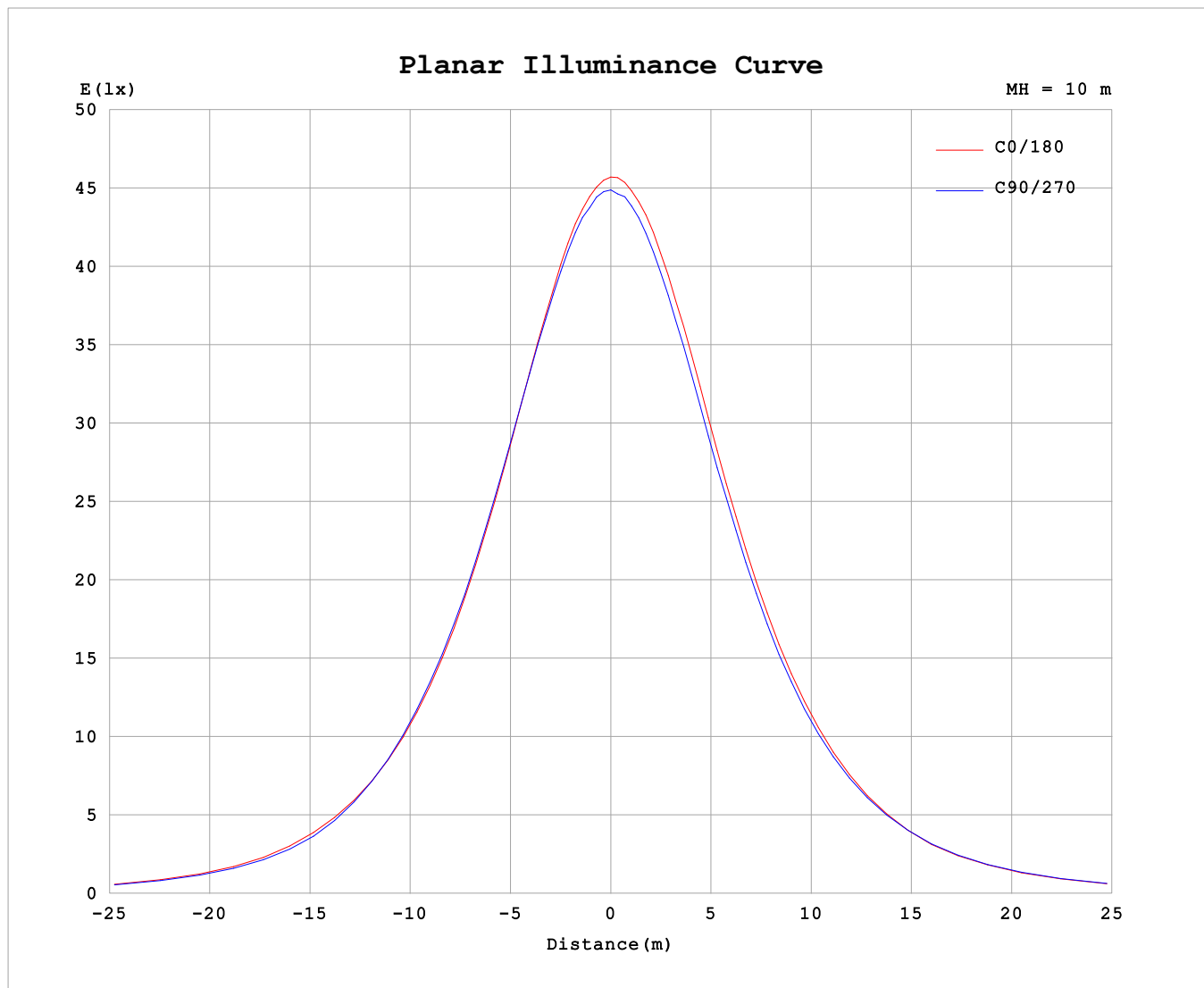
AvgL	cd/m2
L_0~180 (65) av	9393
L_0~180 (75) av	5936
L_0~180 (85) av	1152
L_90~270 (65) av	9362
L_90~270 (75) av	5503
L_90~270 (85) av	919
L_45 (65) av	9392
L_45 (75) av	5668
L_45 (85) av	991

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 2026-03-13

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 18.400m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12417.6x1 lm		
NAME: ASD-FLD-CORE-100AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	4529	4529	4529	4529															
5	4479	4489	4514	4497															
10	4434	4456	4489	4449															
15	4293	4340	4399	4335															
20	4195	4255	4319	4243															
25	3992	4081	4140	4059															
30	3825	3932	3987	3920															
35	3540	3645	3719	3649															
40	3320	3433	3506	3427															
45	2946	3042	3131	3069															
50	2679	2724	2831	2794															
55	2209	2116	2289	2328															
60	1832	1744	1920	1975															
65	1302	1235	1381	1433															
70	975	901	1018	1050															
75	483	381	484	483															
80	231	142	211	201															
85	26.9	16.4	17.3	23.1															
90	1.29	0.78	0.74	0.71															
95	1.43	1.51	0.85	0.45															
100	2.03	2.10	1.15	0.84															
105	3.07	3.24	1.81	1.51															
110	3.89	4.02	2.31	2.06															
115	5.12	5.22	3.27	3.01															
120	5.87	5.98	3.95	3.82															
125	6.85	7.09	5.13	5.05															
130	7.46	7.76	5.87	5.81															
135	8.47	8.66	6.94	6.95															
140	8.99	9.19	7.68	7.68															
145	9.90	9.89	8.58	8.74															
150	10.3	10.3	9.21	9.38															
155	10.9	10.9	10.0	10.2															
160	11.2	11.3	10.4	10.6															
165	11.5	11.7	11.1	11.1															
170	11.8	11.9	11.4	11.3															
175	11.8	12.0	11.8	11.7															
180	11.7	12.1	11.8	11.9															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-13

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks: