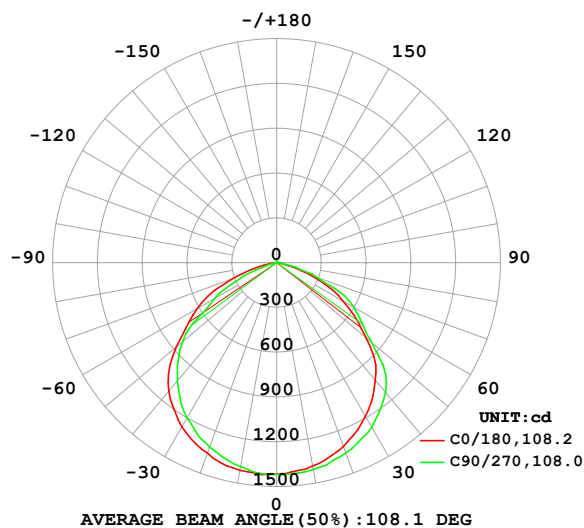


LUMINAIRE PHOTOMETRIC TEST REPORT

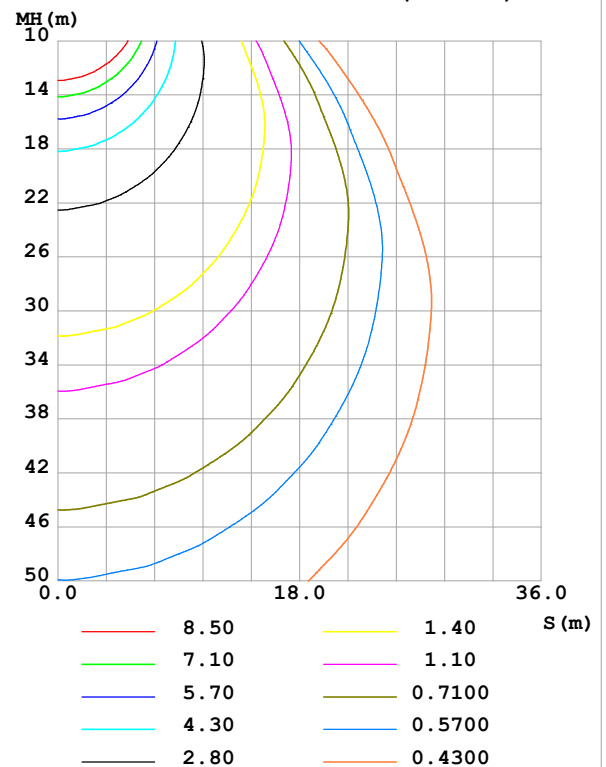
Test:U:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 127.21 lm/W
MODEL	ASD-FLD-CORE-30AM-BK	I _{max} (cd)	1422	S/MH (C0/180)	1.32	
NOMINAL POWER(W)	30	LOR (%)	100.0	S/MH (C90/270)	1.26	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3749.7	η UP,DN (C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3749.74	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,49.8	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120.0	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℃
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	1383	1407	1412	1387					0- 10	134.5	134.5	3.59,3.59
20	1310	1357	1359	1314					10- 20	387.5	522.0	13.9,13.9
30	1188	1273	1269	1202					20- 30	594.3	1116	29.8,29.8
40	1029	1134	1126	1036					30- 40	726.9	1843	49.2,49.2
50	781.9	828.3	876.5	822.0					40- 50	747.8	2591	69.1,69.1
60	514.6	596.6	615.3	478.9					50- 60	609.4	3200	85.3,85.3
70	230.4	288.9	310.5	153.0					60- 70	401.0	3601	96,96
80	24.87	29.46	47.06	10.21					70- 80	130.0	3731	99.5,99.5
90	0.9296	0.8985	0.2805	0.0284					80- 90	8.837	3740	99.7,99.7
100	1.071	0.3114	0.1693	0.0283					90-100	0.4325	3741	99.8,99.8
110	1.127	0.8772	0.5355	0.4242					100-110	0.5102	3741	99.8,99.8
120	1.746	1.528	1.043	0.9610					110-120	1.006	3742	99.8,99.8
130	2.451	2.094	1.634	1.696					120-130	1.470	3744	99.8,99.8
140	3.070	2.603	2.141	2.375					130-140	1.760	3745	99.9,99.9
150	3.239	2.998	2.676	2.856					140-150	1.720	3747	99.9,99.9
160	3.296	3.225	2.986	3.224					150-160	1.416	3748	100,100
170	3.464	3.479	3.296	3.450					160-170	0.9363	3749	100,100
180	3.493	3.592	3.437	3.563					170-180	0.3305	3750	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2300.8 lm

%lum = 61.4%

%lamp = 61.4%

Conical surface Flux(130deg): 3476 lm

%lum = 92.7%

%lamp = 92.7%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz

Lamp Flux:3749.74x1 lm

NAME: ASD-FLD-CORE-30AM-BK

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

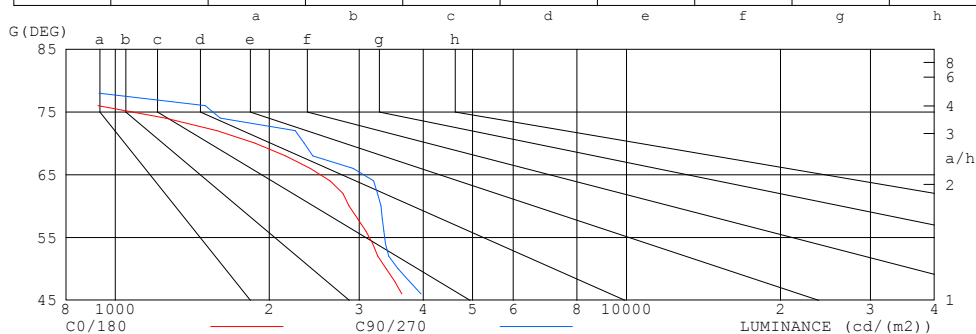
MFR.: ASD Lighting Corp

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



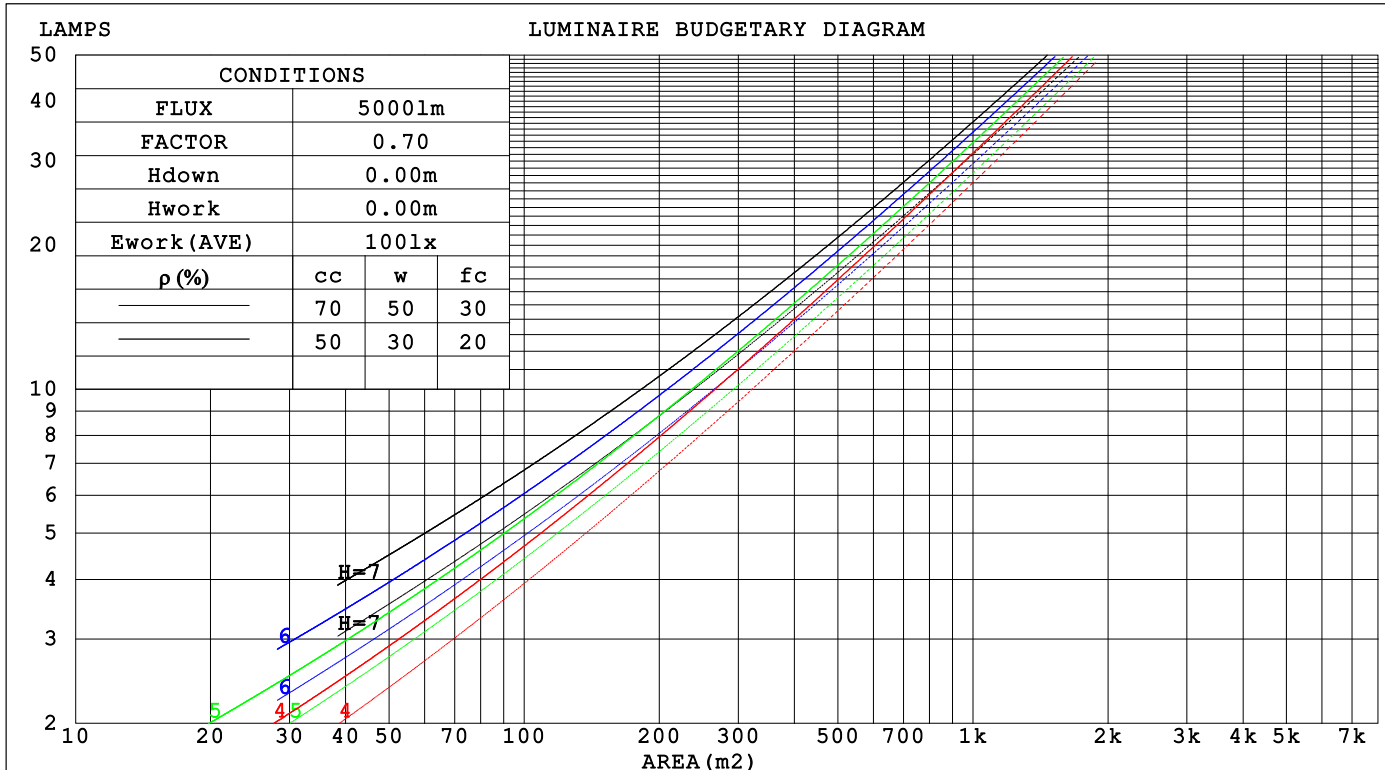
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-13

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-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 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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.85	.81	.77	.82	.78	.75	.73
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.65	.63
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.57	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.65	.56	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.47
6.0	.59	.51	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.39	.34	.32
9.0	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-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	.271	.154	.049	.264	.150	.048	.250	.144	.046	.238	.137	.044	.227	.132	.042		
2.0	.264	.145	.044	.258	.142	.044	.246	.137	.043	.236	.132	.041	.226	.128	.040		
3.0	.250	.133	.040	.244	.131	.039	.234	.127	.039	.225	.123	.038	.216	.120	.037		
4.0	.234	.122	.036	.229	.120	.035	.220	.117	.035	.212	.114	.034	.204	.111	.034		
5.0	.219	.112	.032	.215	.110	.032	.207	.108	.032	.199	.105	.031	.192	.103	.031		
6.0	.205	.103	.029	.201	.101	.029	.194	.099	.029	.187	.097	.029	.181	.095	.028		
7.0	.192	.095	.027	.188	.094	.027	.182	.092	.026	.176	.090	.026	.170	.088	.026		
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.166	.084	.024	.161	.082	.024		
9.0	.169	.082	.023	.167	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022		
10.0	.160	.077	.021	.157	.076	.021	.153	.075	.021	.148	.074	.021	.144	.072	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.180	.158	.139	.154	.136	.120	.105	.094	.083	.060	.054	.048	.019	.017	.016		
2.0	.171	.134	.103	.146	.115	.089	.100	.080	.062	.058	.046	.037	.019	.015	.012		
3.0	.163	.116	.079	.139	.100	.069	.096	.070	.048	.055	.041	.028	.018	.013	.009		
4.0	.155	.103	.063	.133	.089	.054	.092	.062	.038	.053	.036	.023	.017	.012	.007		
5.0	.148	.092	.051	.127	.080	.044	.088	.056	.031	.051	.033	.019	.016	.011	.006		
6.0	.141	.084	.042	.121	.072	.037	.084	.051	.026	.049	.030	.016	.016	.010	.005		
7.0	.135	.077	.036	.116	.067	.032	.080	.047	.022	.047	.027	.013	.015	.009	.004		
8.0	.129	.071	.031	.111	.062	.027	.077	.043	.019	.045	.026	.012	.014	.008	.004		
9.0	.123	.066	.028	.106	.057	.024	.073	.040	.017	.043	.024	.010	.014	.008	.003		
10.0	.117	.062	.025	.101	.054	.022	.070	.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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm											
NAME: ASD-FLD-CORE-30AM-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		17.8	19.2	18.0	19.4	19.6	18.2	19.7	18.5	19.9	20.1
3H		18.6	20.0	18.9	20.2	20.4	19.3	20.6	19.6	20.9	21.1
4H		18.7	20.0	19.1	20.3	20.5	19.5	20.7	19.8	21.0	21.2
6H		18.7	19.9	19.0	20.1	20.4	19.4	20.6	19.8	20.9	21.2
8H		18.6	19.8	19.0	20.1	20.3	19.4	20.5	19.7	20.8	21.1
12H		18.6	19.7	18.9	20.0	20.3	19.3	20.4	19.7	20.7	21.0
4H 2H		18.3	19.6	18.6	19.8	20.1	18.7	19.9	19.0	20.2	20.4
3H		19.3	20.4	19.6	20.6	20.9	19.8	20.9	20.2	21.2	21.5
4H		19.4	20.4	19.8	20.7	21.1	20.0	21.0	20.4	21.4	21.7
6H		19.4	20.2	19.8	20.6	21.0	20.0	20.9	20.4	21.3	21.6
8H		19.3	20.1	19.7	20.5	20.9	20.0	20.8	20.4	21.2	21.6
12H		19.3	20.0	19.7	20.4	20.8	20.0	20.7	20.4	21.1	21.5
8H 4H		19.4	20.2	19.8	20.6	21.0	20.0	20.8	20.5	21.2	21.6
6H		19.4	20.1	19.9	20.5	20.9	20.0	20.7	20.5	21.1	21.5
8H		19.4	20.0	19.8	20.4	20.8	20.0	20.6	20.5	21.0	21.5
12H		19.3	19.8	19.8	20.3	20.8	20.0	20.5	20.5	20.9	21.4
12H 4H		19.4	20.1	19.8	20.5	20.9	20.0	20.7	20.4	21.1	21.5
6H		19.4	20.0	19.8	20.4	20.8	20.0	20.6	20.5	21.0	21.5
8H		19.4	19.8	19.8	20.3	20.8	20.0	20.5	20.5	20.9	21.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.4 / - 0.5					+ 0.4 / - 0.6				
1.5H		+ 0.2 / - 0.6					+ 0.3 / - 0.6				
2.0H		+ 0.4 / - 0.7					+ 0.5 / - 1.1				

CIE Pub.117, 3750 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.6$)
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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

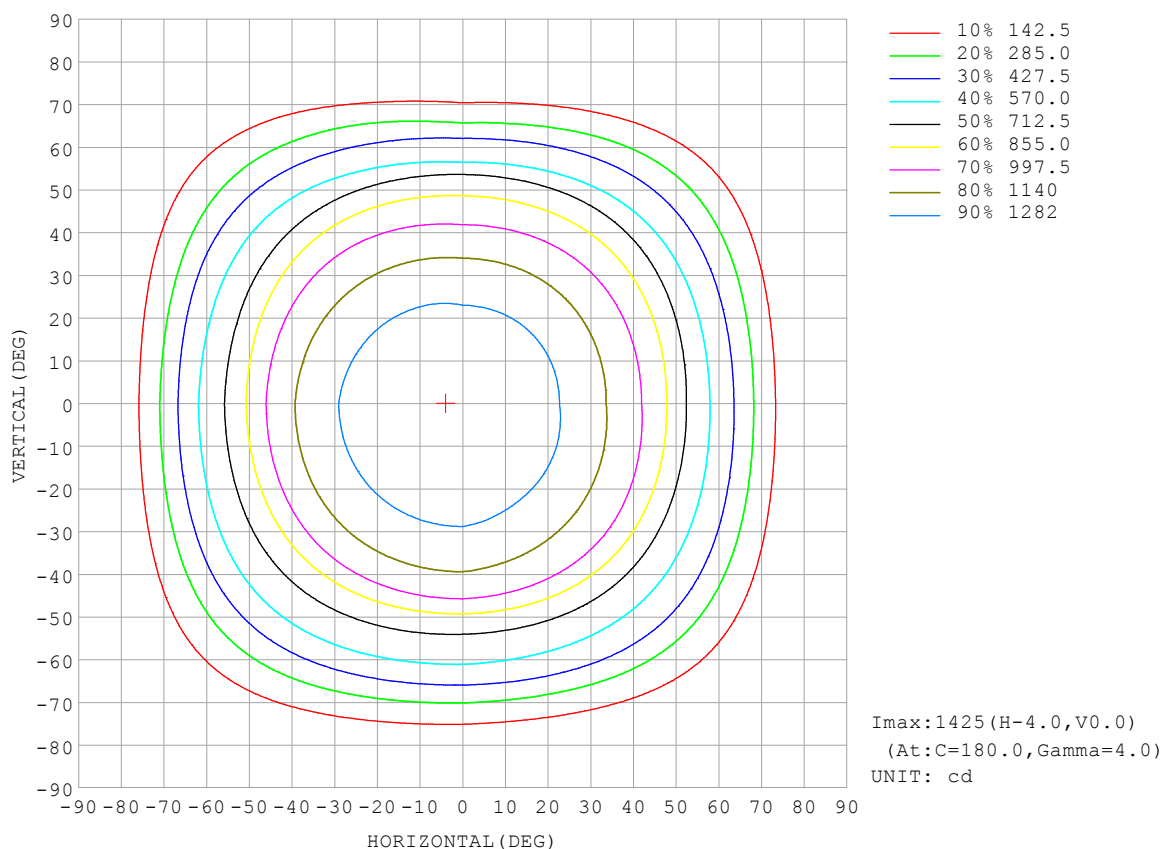
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	59	52	67	58	52	45
1.00	79	69	62	78	68	61	76	69	61	54
1.25	86	76	70	85	76	69	82	74	69	62
1.50	91	82	76	89	81	75	86	79	74	67
2.00	98	90	84	96	89	83	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	97	92	98	94	90	82
4.00	108	103	99	106	101	97	101	98	95	86
5.00	110	106	102	108	104	101	103	100	98	89
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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

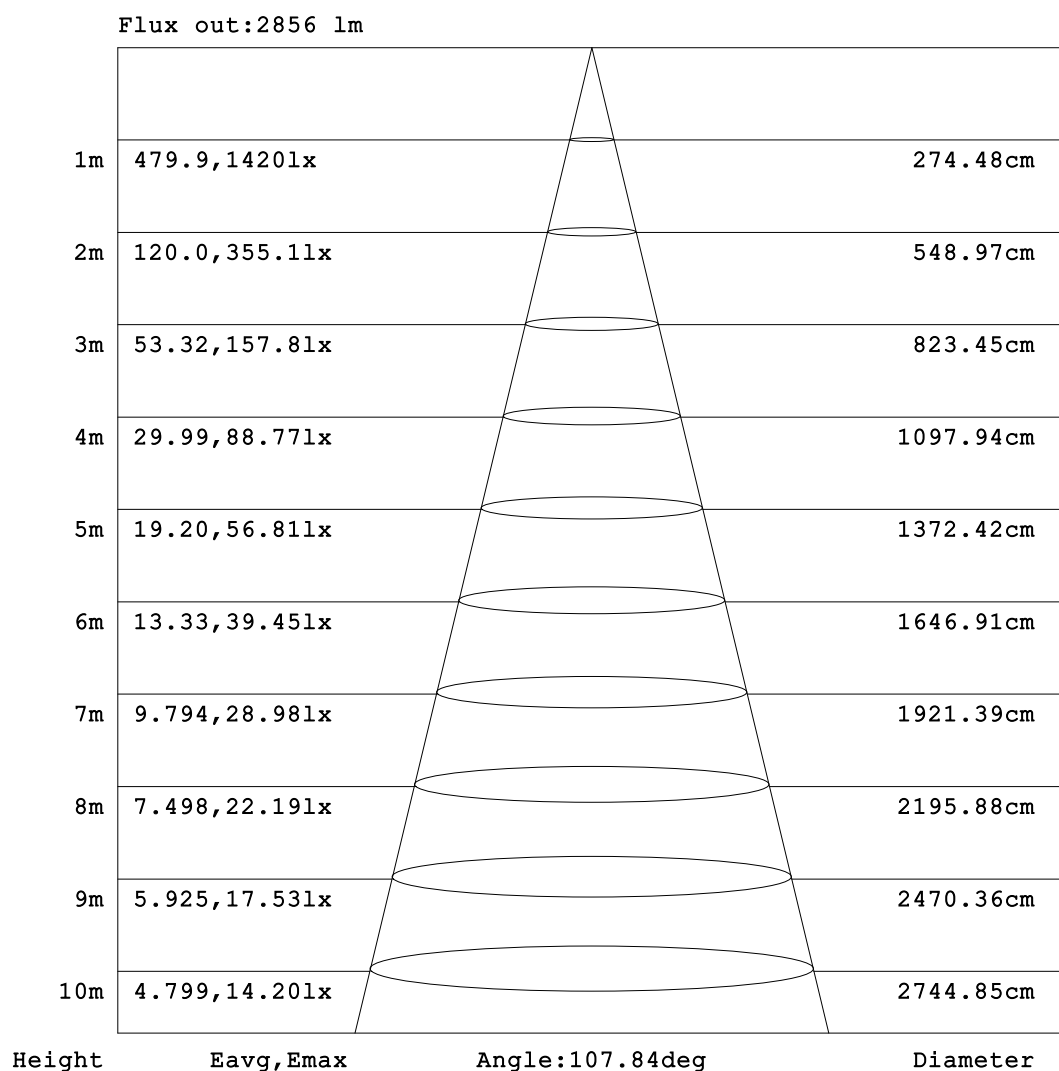


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-13

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:

AAI Figure

Test:U:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



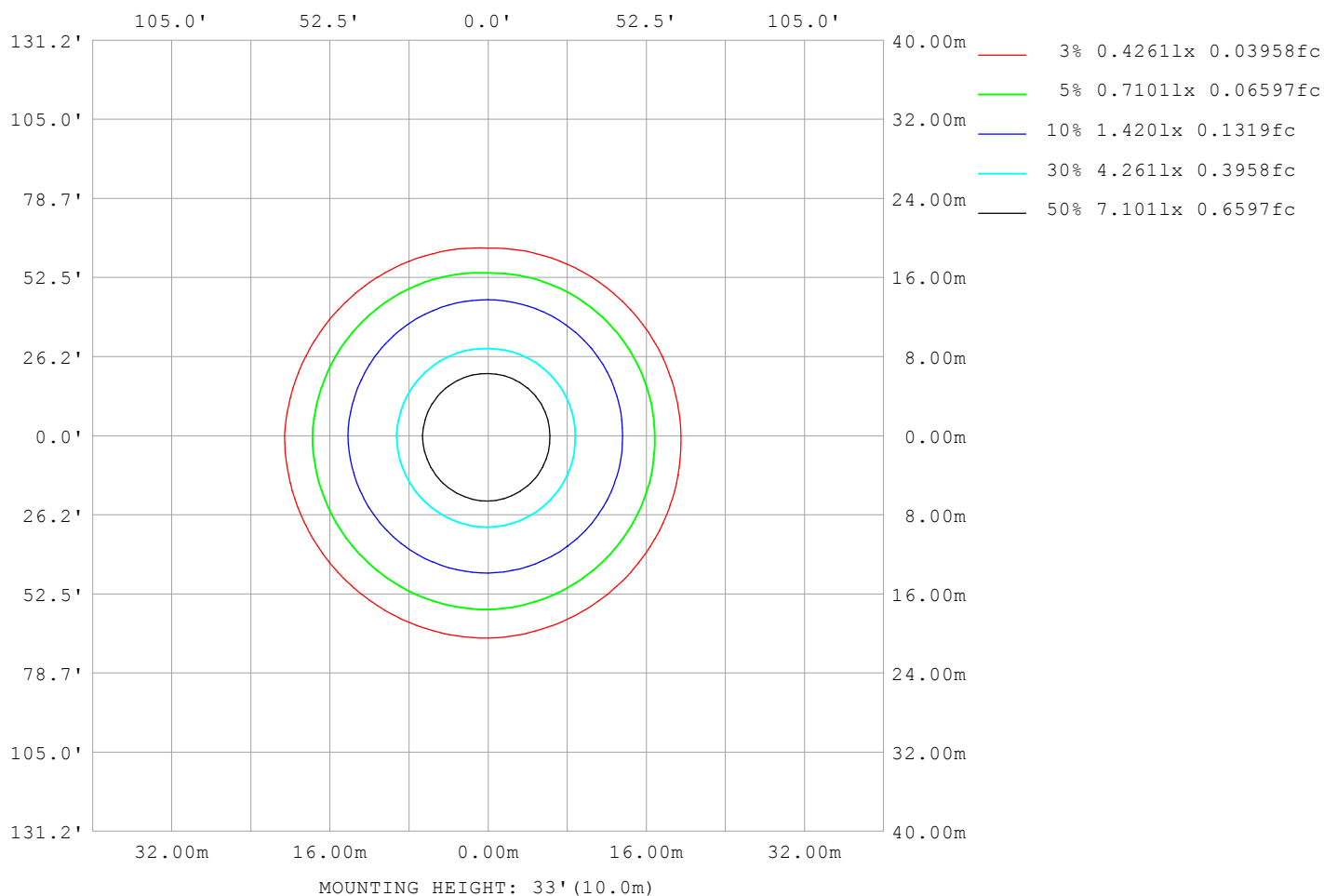
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

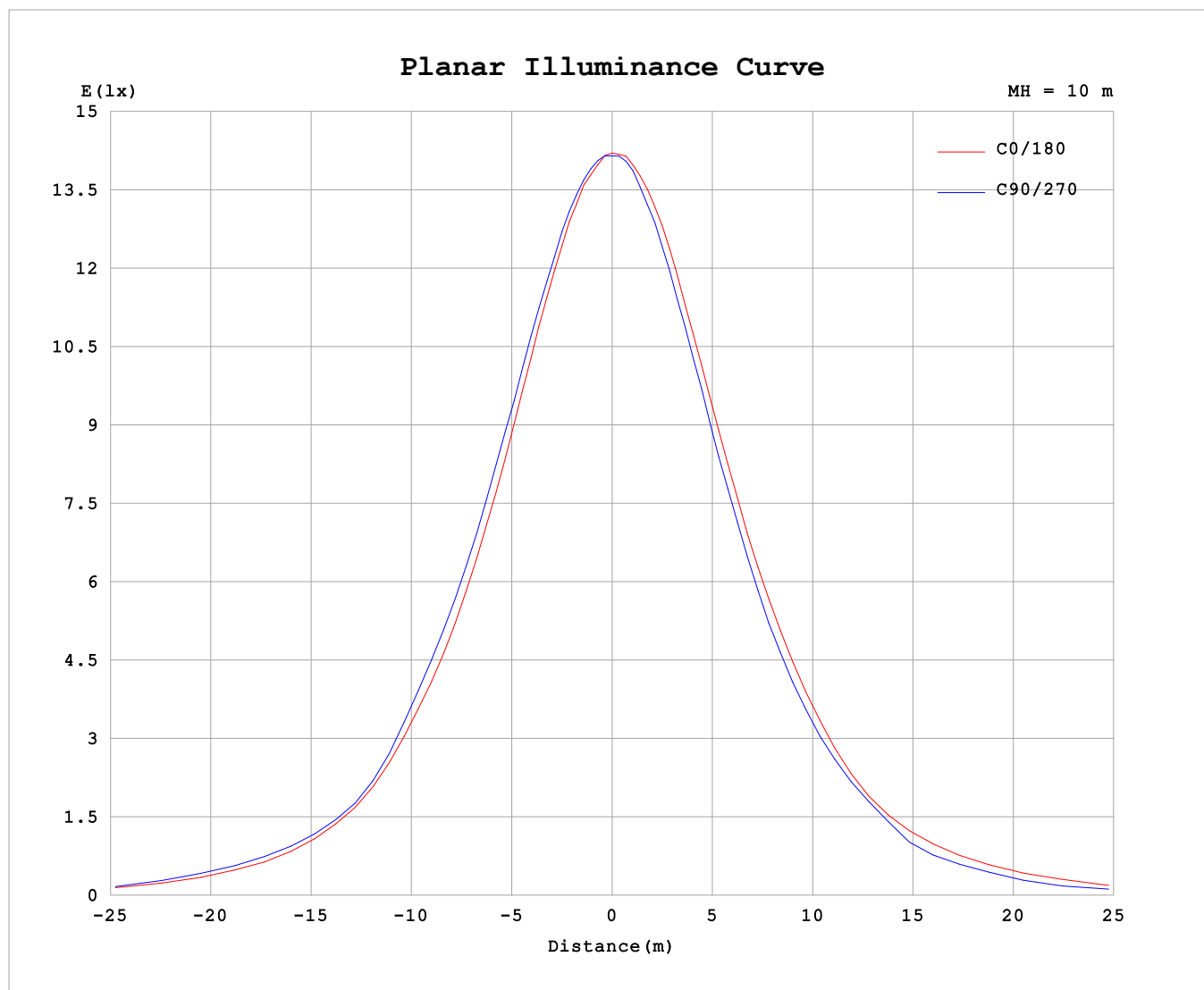
AvgL	cd/m2
L_0~180 (65) av	2860
L_0~180 (75) av	1423
L_0~180 (85) av	147
L_90~270 (65) av	2554
L_90~270 (75) av	1023
L_90~270 (85) av	189
L_45 (65) av	2690
L_45 (75) av	1194
L_45 (85) av	175

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:120.00V I:0.2531A P:29.476W PF:0.9704 Freq:50.00Hz Lamp Flux:3749.74x1 lm		
NAME: ASD-FLD-CORE-30AM-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	1417	1417	1417	1417														
5	1400	1417	1418	1412														
10	1383	1407	1412	1387														
15	1343	1377	1390	1349														
20	1310	1357	1359	1314														
25	1242	1307	1312	1250														
30	1188	1273	1269	1202														
35	1099	1194	1186	1107														
40	1029	1134	1126	1036														
45	907	993	997	912														
50	782	828	876	822														
55	621	676	706	585														
60	515	597	615	479														
65	352	428	458	273														
70	230	289	310	153														
75	80.4	131	138	35.6														
80	24.9	29.5	47.1	10.2														
85	2.33	7.40	3.24	0.48														
90	0.93	0.90	0.28	0.03														
95	1.38	0.20	0.08	0.03														
100	1.07	0.31	0.17	0.03														
105	0.73	0.57	0.39	0.25														
110	1.13	0.88	0.54	0.42														
115	1.46	1.27	0.82	0.74														
120	1.75	1.53	1.04	0.96														
125	2.08	1.90	1.38	1.44														
130	2.45	2.09	1.63	1.70														
135	2.90	2.40	1.94	2.12														
140	3.07	2.60	2.14	2.37														
145	3.18	2.83	2.42	2.66														
150	3.24	3.00	2.68	2.86														
155	3.27	3.17	2.87	3.11														
160	3.30	3.22	2.99	3.22														
165	3.38	3.42	3.18	3.37														
170	3.46	3.48	3.30	3.45														
175	3.49	3.54	3.41	3.51														
180	3.49	3.59	3.44	3.56														

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: