

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz
Lamp Flux:6038.84x1 lm

NAME: ASD-FLD-CORE-50AM-BK

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

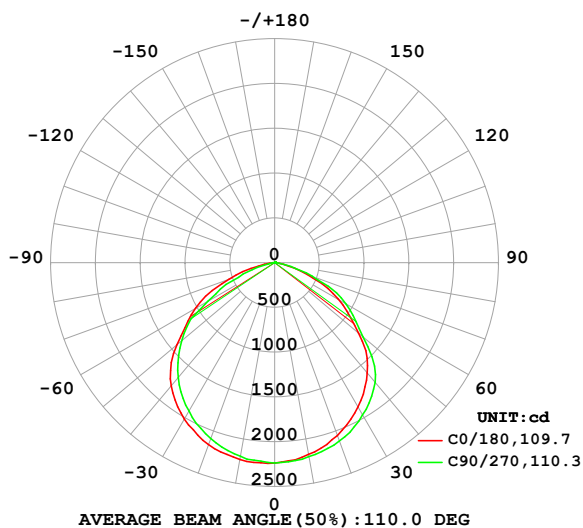
MFR.: ASD Lighting Corp

SUR.:

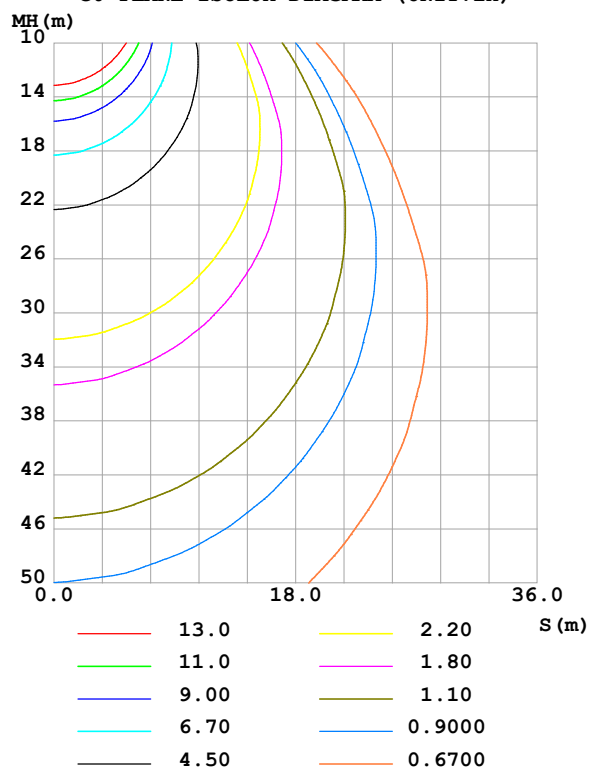
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 126.21 lm/W
MODEL	ASD-FLD-CORE-50AM-BK	I _{max} (cd)	2244	S/MH(C0/180)	1.34	
NOMINAL POWER(W)	48	LOR(%)	100.0	S/MH(C90/270)	1.28	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6038.8	η UP,DN(C0-180)	0.1,48.5	
NOMINAL FLUX(lm)	6038.84	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,51.3	
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℃
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	2176	2201	2231	2197					0- 10	211.8	211.8	3.51,3.51
20	2054	2118	2162	2089					10- 20	610.5	822.3	13.6,13.6
30	1864	1964	2020	1914					20- 30	936.7	1759	29.1,29.1
40	1609	1748	1796	1677					30- 40	1147	2906	48.1,48.1
50	1224	1290	1426	1356					40- 50	1184	4090	67.7,67.7
60	821.2	917.2	1020	860.8					50- 60	997.4	5087	84.2,84.2
70	388.5	446.8	546.5	375.1					60- 70	671.8	5759	95.4,95.4
80	53.96	38.47	119.1	37.67					70- 80	247.4	6006	99.5,99.5
90	0.5571	0.2026	0.1433	0.2047					80- 90	17.42	6024	99.7,99.7
100	0.8013	0.7516	0.4299	0.2600					90-100	0.4229	6024	99.8,99.8
110	1.717	1.677	0.9451	0.8092					100-110	0.9520	6025	99.8,99.8
120	2.834	2.747	1.776	1.675					110-120	1.738	6027	99.8,99.8
130	3.607	3.614	2.692	2.658					120-130	2.414	6029	99.8,99.8
140	4.437	4.336	3.523	3.640					130-140	2.757	6032	99.9,99.9
150	4.868	4.885	4.266	4.421					140-150	2.693	6035	99.9,99.9
160	5.268	5.347	4.925	5.086					150-160	2.263	6037	100,100
170	5.440	5.665	5.326	5.462					160-170	1.505	6038	100,100
180	5.526	5.780	5.584	5.694					170-180	0.5281	6039	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3628.4 lm

%lum = 60.1%

%lamp = 60.1%

Conical surface Flux(120deg): 5087 lm

%lum = 84.2%

%lamp = 84.2%

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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz

Lamp Flux:6038.84x1 lm

NAME: ASD-FLD-CORE-50AM-BK

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

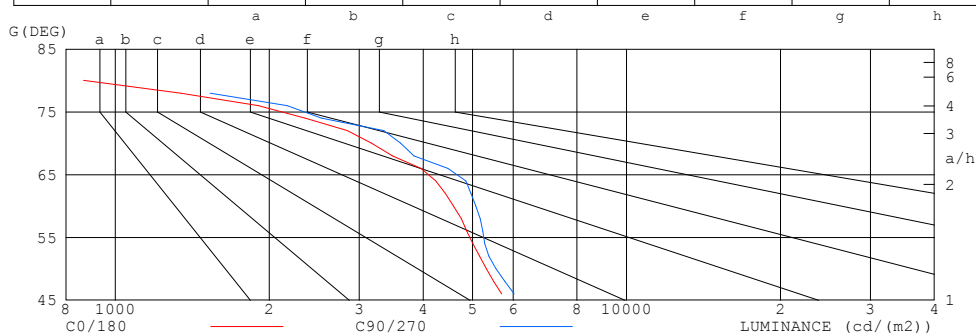
MFR.: ASD Lighting Corp

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	254	452
80	867	612
75	2505	2694
70	3170	3612
65	4394	5027
60	4584	5072
55	5126	5410
50	5313	5549
45	5864	6283

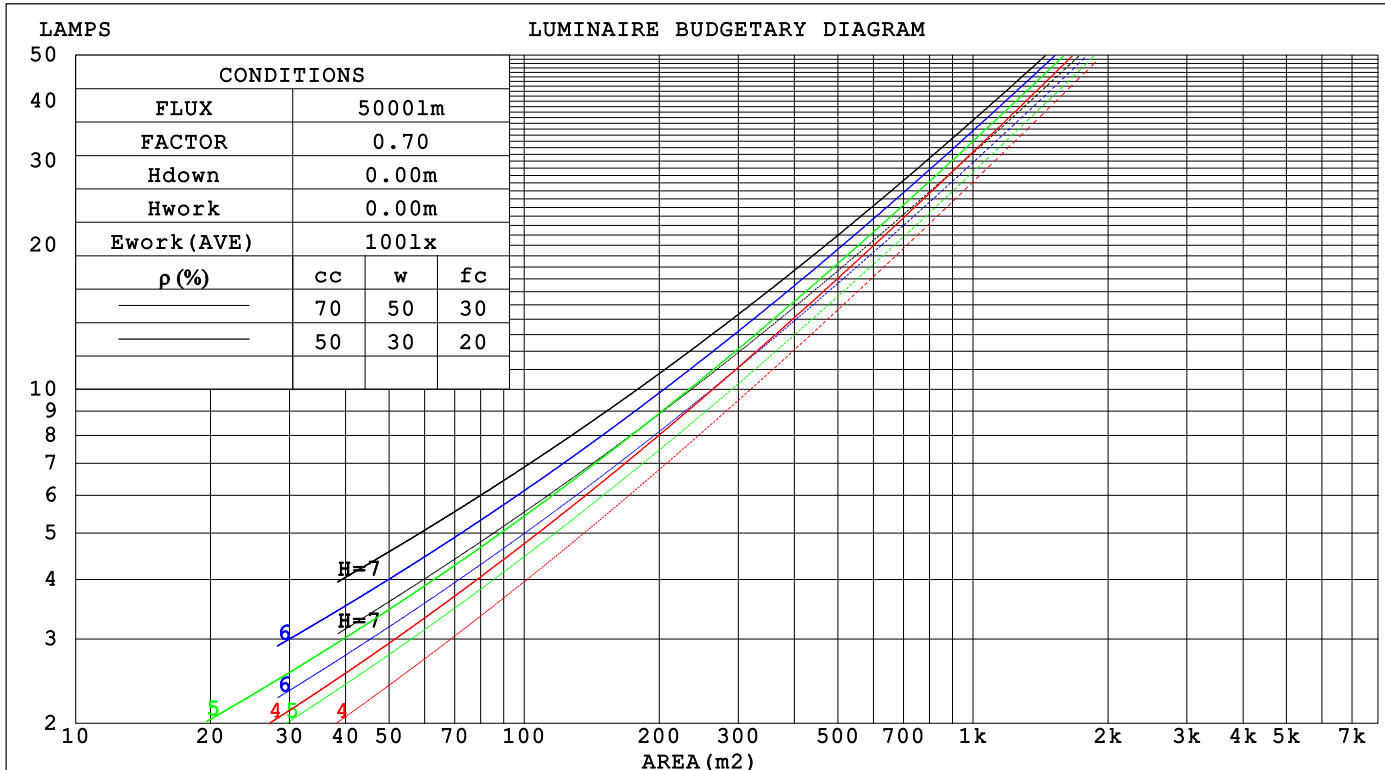
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-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	.98	1.03	.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86														
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73														
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62														
4.0	.73	.64	.58	.71	.64	.57	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53														
5.0	.65	.56	.50	.64	.56	.50	.62	.55	.49	.60	.54	.49	.58	.52	.48	.46														
6.0	.59	.50	.44	.58	.49	.43	.56	.49	.43	.54	.48	.43	.53	.47	.42	.40														
7.0	.53	.45	.39	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.38	.36														
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32														
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29														
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26														



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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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-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	.276	.157	.050	.269	.153	.049	.256	.147	.047	.243	.140	.045	.232	.135	.043		
2.0	.269	.147	.045	.262	.144	.045	.251	.139	.043	.240	.135	.042	.230	.130	.041		
3.0	.253	.135	.040	.248	.133	.040	.238	.129	.039	.228	.125	.038	.219	.121	.038		
4.0	.237	.123	.036	.232	.121	.036	.223	.118	.035	.215	.115	.035	.207	.112	.034		
5.0	.221	.113	.033	.217	.111	.032	.209	.109	.032	.201	.106	.032	.194	.104	.031		
6.0	.206	.104	.030	.203	.102	.029	.195	.100	.029	.189	.098	.029	.182	.096	.029		
7.0	.193	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.172	.089	.026		
8.0	.181	.089	.025	.178	.088	.025	.172	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.170	.082	.023	.168	.082	.023	.162	.080	.023	.157	.079	.023	.153	.078	.022		
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.149	.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	.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	.061	.054	.048	.019	.017	.016		
2.0	.171	.134	.103	.147	.115	.089	.100	.080	.062	.058	.046	.036	.019	.015	.012		
3.0	.163	.116	.079	.140	.100	.068	.096	.070	.048	.055	.041	.028	.018	.013	.009		
4.0	.156	.103	.062	.134	.089	.054	.092	.062	.038	.053	.036	.022	.017	.012	.007		
5.0	.149	.092	.051	.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	.135	.077	.036	.116	.067	.031	.080	.047	.022	.047	.028	.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	.074	.040	.017	.043	.024	.010	.014	.008	.003		
10.0	.118	.062	.025	.102	.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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm										
NAME: ASD-FLD-CORE-50AM-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	19.3	20.7	19.5	20.9	21.1	19.6	21.1	19.9	21.3	21.5
3H	20.2	21.6	20.5	21.8	22.0	20.7	22.0	21.0	22.2	22.5
4H	20.4	21.7	20.7	21.9	22.2	20.8	22.1	21.1	22.4	22.6
6H	20.4	21.6	20.7	21.8	22.1	20.8	22.0	21.1	22.3	22.6
8H	20.3	21.5	20.7	21.7	22.0	20.8	21.9	21.1	22.2	22.5
12H	20.3	21.4	20.6	21.7	22.0	20.7	21.8	21.1	22.1	22.4
4H 2H	19.8	21.0	20.1	21.3	21.6	20.0	21.3	20.4	21.6	21.8
3H	20.8	21.9	21.2	22.2	22.5	21.2	22.3	21.6	22.6	22.9
4H	21.1	22.1	21.4	22.4	22.7	21.4	22.4	21.8	22.8	23.1
6H	21.1	21.9	21.5	22.3	22.7	21.4	22.3	21.8	22.7	23.0
8H	21.0	21.8	21.4	22.2	22.6	21.4	22.2	21.8	22.6	23.0
12H	21.0	21.7	21.4	22.1	22.5	21.4	22.1	21.8	22.5	22.9
8H 4H	21.1	21.9	21.5	22.3	22.7	21.5	22.3	21.9	22.7	23.0
6H	21.1	21.8	21.6	22.2	22.6	21.5	22.1	21.9	22.6	23.0
8H	21.1	21.7	21.6	22.1	22.6	21.4	22.0	21.9	22.5	22.9
12H	21.1	21.6	21.5	22.0	22.5	21.4	21.9	21.9	22.4	22.8
12H 4H	21.1	21.8	21.5	22.2	22.6	21.4	22.2	21.8	22.6	23.0
6H	21.1	21.7	21.6	22.1	22.6	21.4	22.0	21.9	22.5	22.9
8H	21.1	21.6	21.5	22.0	22.5	21.4	21.9	21.9	22.4	22.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				
1.5H	+ 0.2 / - 0.6					+ 0.3 / - 0.5				
2.0H	+ 0.4 / - 0.6					+ 0.4 / - 0.9				

CIE Pub.117, 6039 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.2$)
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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
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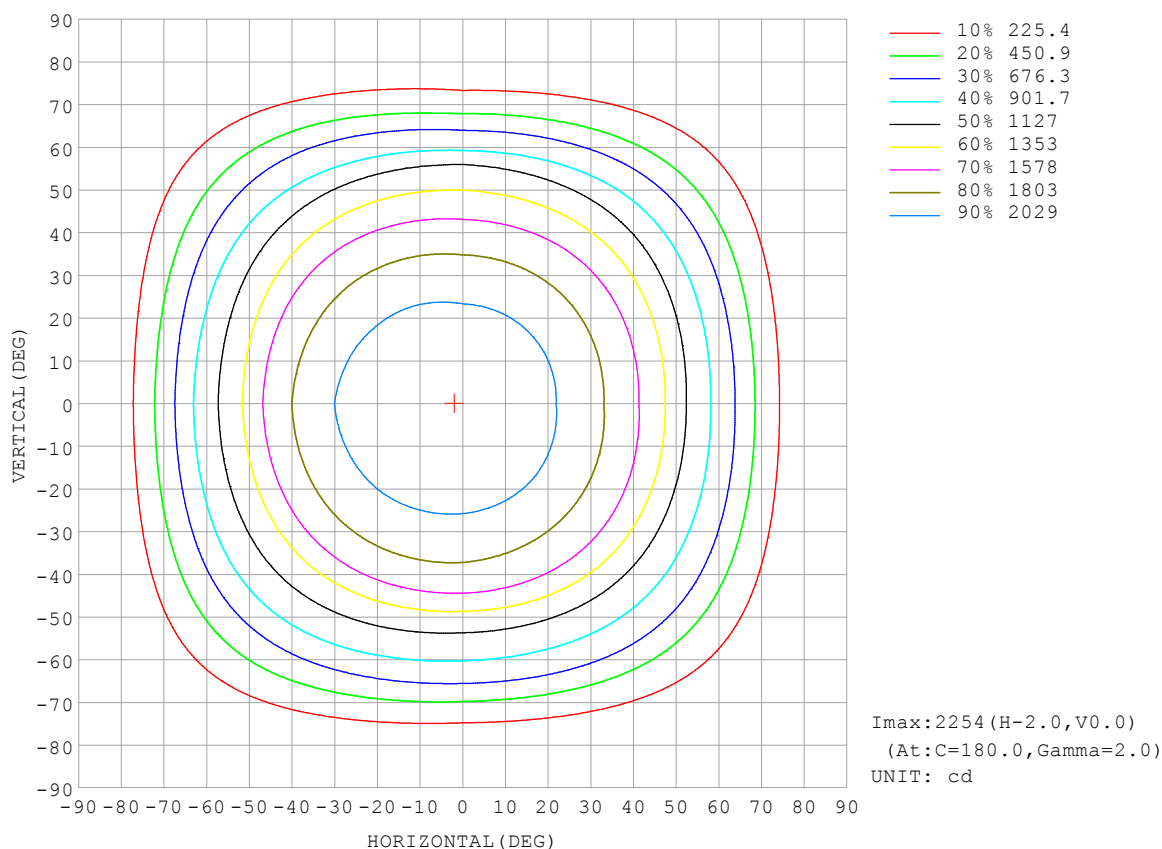
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	48	41	57	47	41	35
0.80	70	58	51	69	58	51	67	57	51	44
1.00	78	68	61	77	67	61	75	68	60	53
1.25	85	76	69	84	75	69	81	73	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	103	98	105	101	97	101	97	94	86
5.00	110	106	102	107	104	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
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Remarks:

ISOCANDELA DIAGRAM

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
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SPEC.: 5000K	DIM.:	SERIAL No.: 027
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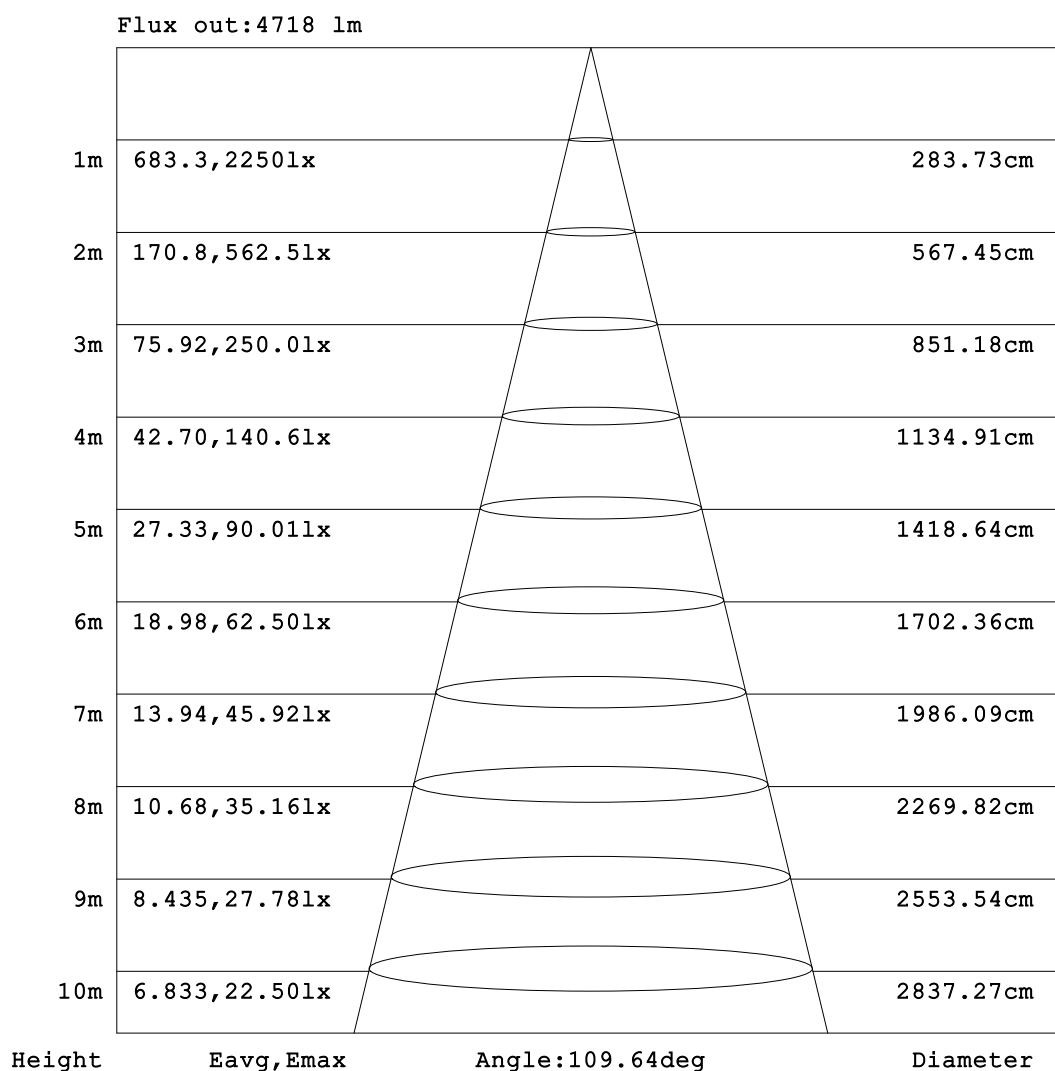


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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



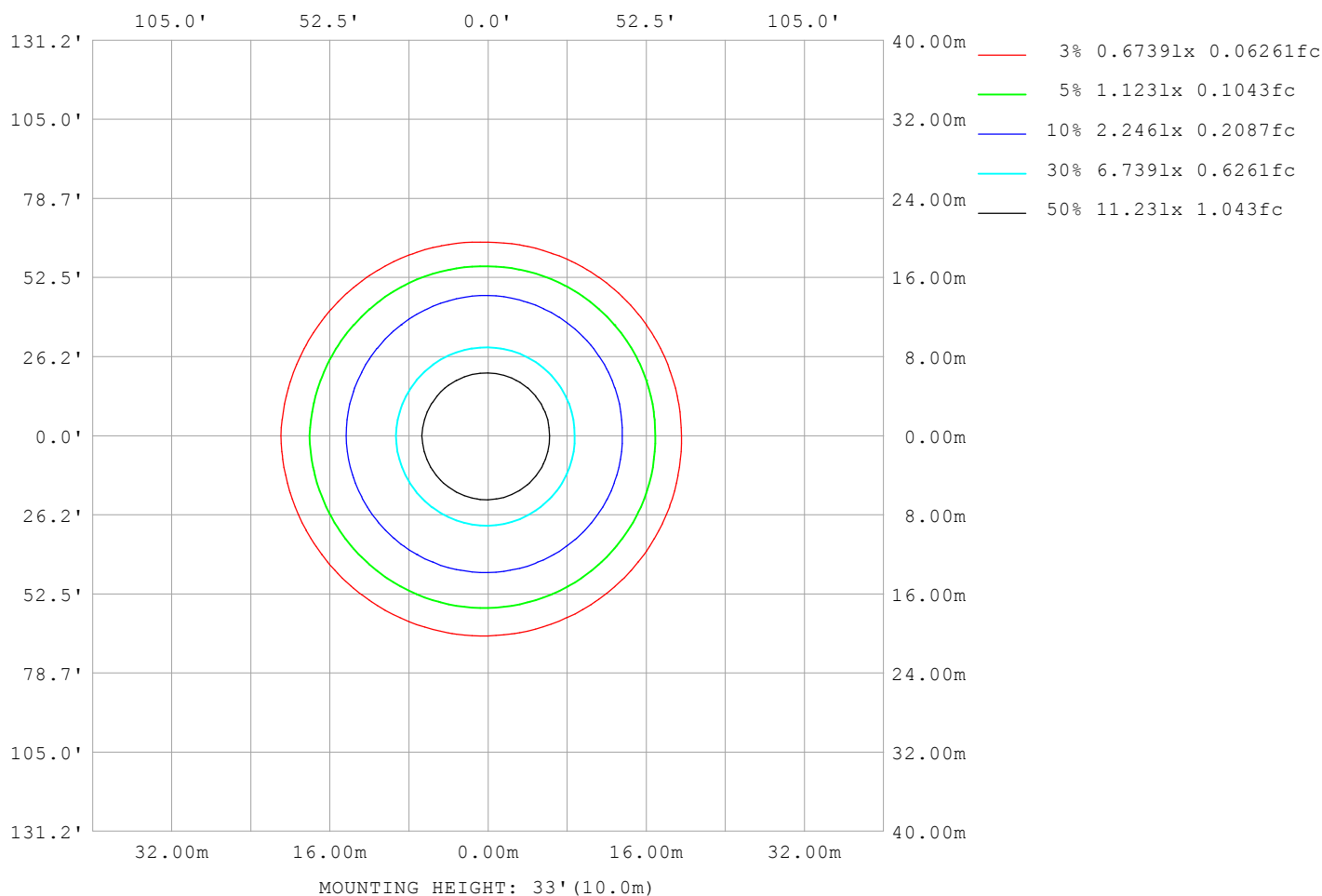
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
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Remarks:

ISOLUX DIAGRAM

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



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LED Avg.L Report

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

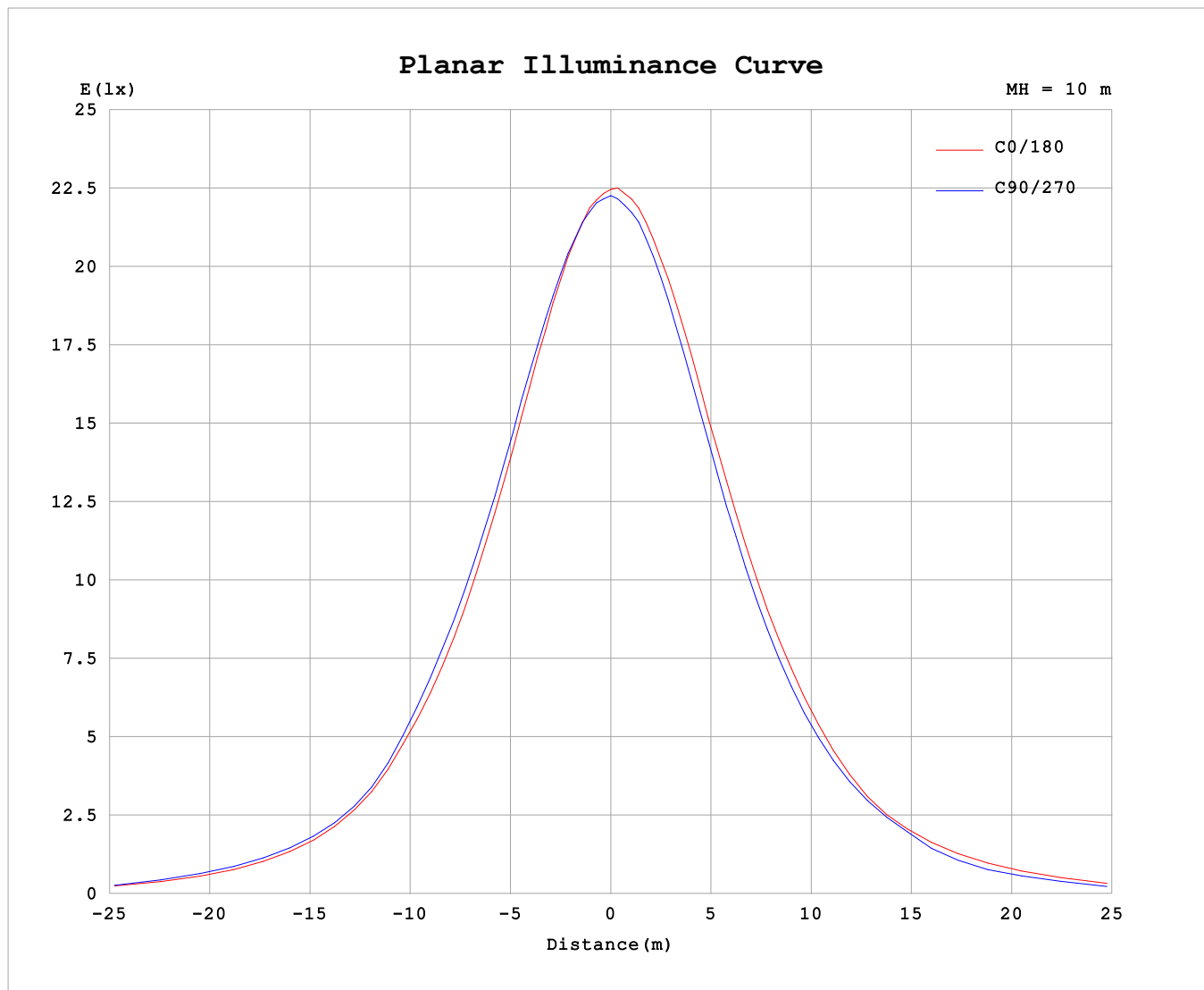
AvgL	cd/m2
L_0~180 (65) av	4732
L_0~180 (75) av	2797
L_0~180 (85) av	255
L_90~270 (65) av	4467
L_90~270 (75) av	2051
L_90~270 (85) av	199
L_45 (65) av	4607
L_45 (75) av	2374
L_45 (85) av	228

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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6038.84x1 lm		
NAME: ASD-FLD-CORE-50AM-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	2236	2236	2236	2236														
5	2213	2221	2242	2219														
10	2176	2201	2231	2197														
15	2113	2157	2197	2141														
20	2054	2118	2162	2089														
25	1943	2035	2077	1999														
30	1864	1964	2020	1914														
35	1715	1842	1895	1782														
40	1609	1748	1796	1677														
45	1418	1514	1605	1494														
50	1224	1290	1426	1356														
55	975	1058	1169	1130														
60	821	917	1020	861														
65	577	658	766	597														
70	389	447	546	375														
75	165	190	275	124														
80	54.0	38.5	119	37.7														
85	1.84	5.13	7.49	1.88														
90	0.56	0.20	0.14	0.20														
95	0.65	0.49	0.23	0.24														
100	0.80	0.75	0.43	0.26														
105	1.35	1.27	0.72	0.46														
110	1.72	1.68	0.95	0.81														
115	2.40	2.34	1.38	1.24														
120	2.83	2.75	1.78	1.68														
125	3.26	3.27	2.29	2.25														
130	3.61	3.61	2.69	2.66														
135	4.07	4.05	3.24	3.38														
140	4.44	4.34	3.52	3.64														
145	4.61	4.68	4.01	4.07														
150	4.87	4.88	4.27	4.42														
155	5.07	5.17	4.73	4.94														
160	5.27	5.35	4.93	5.09														
165	5.38	5.55	5.18	5.35														
170	5.44	5.66	5.33	5.46														
175	5.50	5.69	5.50	5.61														
180	5.53	5.78	5.58	5.69														

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: