

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz
Lamp Flux:12681.3x1 lm

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

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

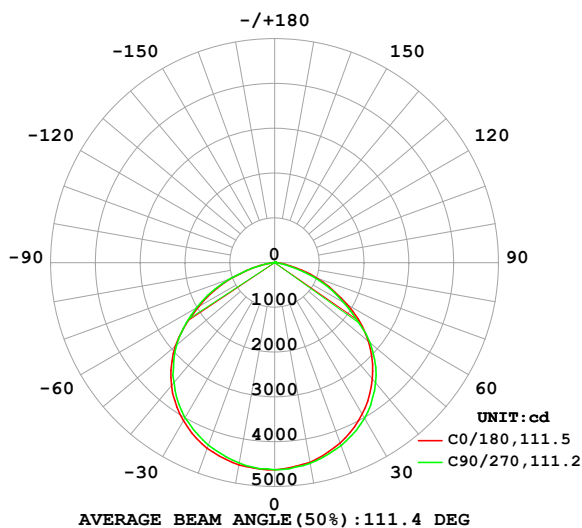
MFR.: ASD Lighting Corp

SUR.:

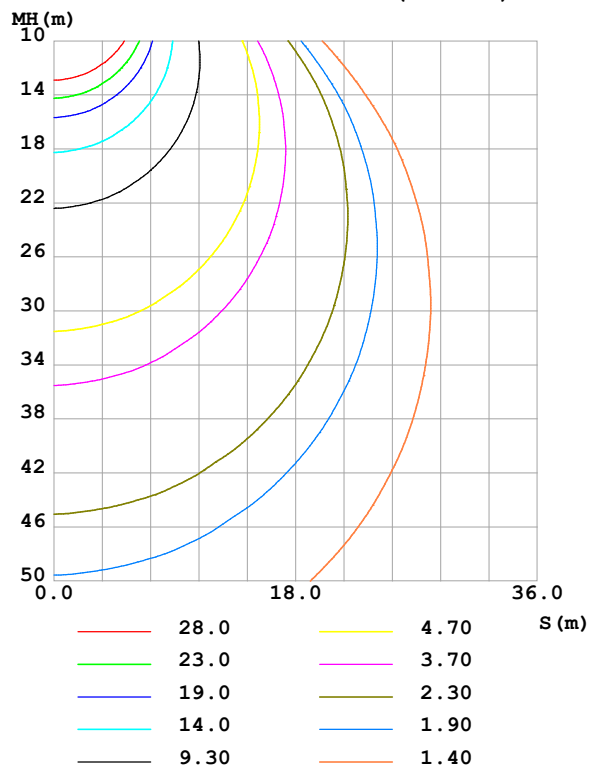
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 128.38 lm/W
MODEL	ASD-FLD-CORE-100YK-BK	I _{max} (cd)	4630	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)	12681	η UP,DN(C0-180)	0.2,48.9	
NOMINAL FLUX(lm)	12681.3	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℃
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	4528	4550	4585	4544					0- 10	437.6	437.6	3.45,3.45
20	4284	4346	4410	4333					10- 20	1259	1697	13.4,13.4
30	3906	4016	4071	4004					20- 30	1931	3628	28.6,28.6
40	3391	3506	3580	3499					30- 40	2357	5985	47.2,47.2
50	2736	2781	2891	2854					40- 50	2450	8435	66.5,66.5
60	1871	1781	1961	2017					50- 60	2117	10552	83.2,83.2
70	995.5	920.0	1040	1072					60- 70	1440	11992	94.6,94.6
80	235.7	145.2	215.3	204.9					70- 80	591.9	12584	99.2,99.2
90	1.315	0.8003	0.7559	0.7240					80- 90	62.93	12647	99.7,99.7
100	2.070	2.141	1.178	0.8545					90-100	1.167	12648	99.7,99.7
110	3.974	4.109	2.354	2.109					100-110	2.443	12651	99.8,99.8
120	5.992	6.105	4.032	3.904					110-120	4.017	12655	99.8,99.8
130	7.615	7.928	5.994	5.930					120-130	5.330	12660	99.8,99.8
140	9.184	9.384	7.841	7.839					130-140	5.975	12666	99.9,99.9
150	10.55	10.55	9.409	9.580					140-150	5.839	12672	99.9,99.9
160	11.40	11.52	10.67	10.86					150-160	4.892	12677	100,100
170	12.01	12.12	11.59	11.55					160-170	3.252	12680	100,100
180	11.90	12.32	12.10	12.12					170-180	1.142	12681	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7468.2 lm

%lum = 58.9%

%lamp = 58.9%

Conical surface Flux(120deg): 10552 lm

%lum = 83.2%

%lamp = 83.2%

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

Lamp Flux:12681.3x1 lm

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

TYPE:

WEIGHT:

SPEC.: 5000K

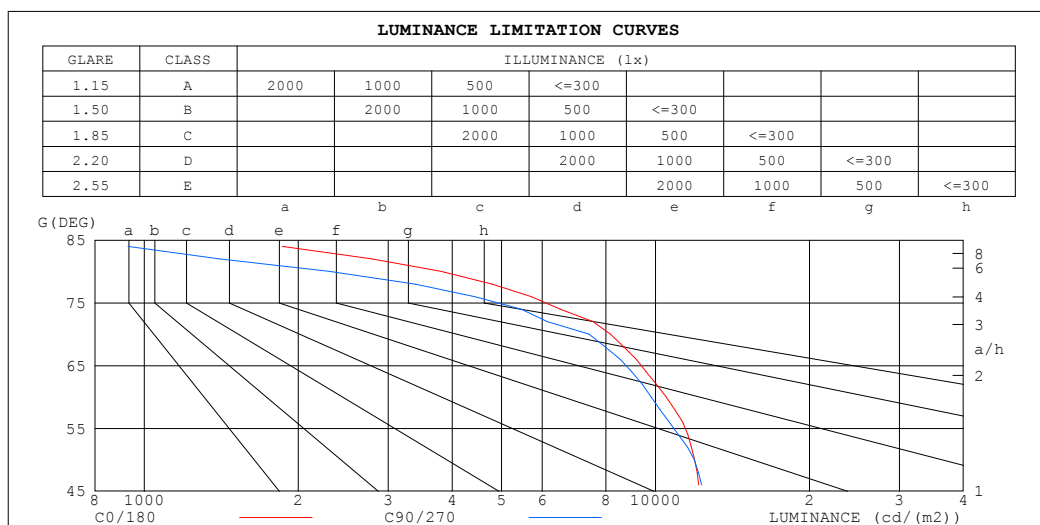
DIM.:

SERIAL No.: 027

MFR.: ASD Lighting Corp

SUR.:

Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2234	1114
80	3805	2302
75	6924	5813
70	8159	7404
65	9949	9328
60	10491	9802
55	11855	11349
50	11930	11910
45	12483	12670

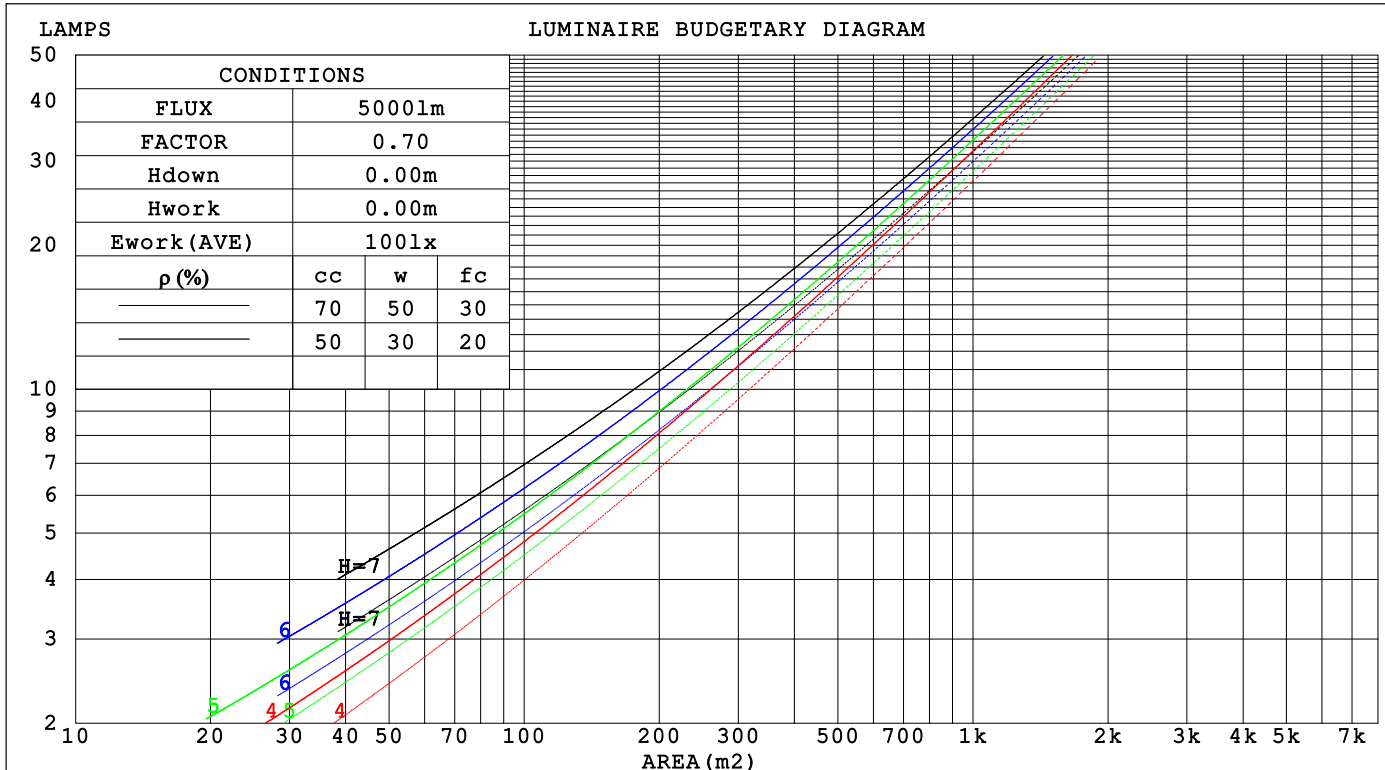
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Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: ASD-FLD-CORE-100YK-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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.85
2.0	.92	.86	.81	.90	.85	.80	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72
3.0	.81	.74	.67	.80	.73	.67	.77	.71	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



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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

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NAME: ASD-FLD-CORE-100YK-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:12681.3x1 lm										
NAME: ASD-FLD-CORE-100YK-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	22.2	23.6	22.4	23.8	24.0	22.0	23.5	22.3	23.7	23.9
3H	23.3	24.6	23.6	24.9	25.1	23.0	24.4	23.3	24.6	24.8
4H	23.6	24.9	23.9	25.1	25.4	23.2	24.5	23.5	24.8	25.0
6H	23.6	24.9	24.0	25.1	25.4	23.2	24.4	23.6	24.7	25.0
8H	23.6	24.8	24.0	25.1	25.4	23.2	24.3	23.5	24.6	24.9
12H	23.6	24.7	23.9	25.0	25.3	23.1	24.2	23.5	24.5	24.8
4H 2H	22.6	23.9	22.9	24.2	24.4	22.5	23.8	22.8	24.0	24.3
3H	23.9	25.0	24.2	25.3	25.6	23.6	24.7	24.0	25.0	25.4
4H	24.2	25.3	24.6	25.6	25.9	23.9	24.9	24.3	25.3	25.6
6H	24.4	25.3	24.8	25.6	26.0	24.0	24.9	24.4	25.2	25.6
8H	24.4	25.2	24.8	25.6	26.0	23.9	24.8	24.3	25.1	25.5
12H	24.3	25.1	24.8	25.5	25.9	23.9	24.7	24.3	25.0	25.4
8H 4H	24.3	25.1	24.7	25.5	25.9	24.0	24.8	24.4	25.2	25.6
6H	24.5	25.2	24.9	25.6	26.0	24.1	24.8	24.5	25.2	25.6
8H	24.5	25.1	25.0	25.5	26.0	24.1	24.7	24.5	25.1	25.6
12H	24.5	25.0	25.0	25.4	25.9	24.0	24.6	24.5	25.0	25.5
12H 4H	24.3	25.0	24.7	25.4	25.8	24.0	24.7	24.4	25.1	25.5
6H	24.5	25.1	24.9	25.5	25.9	24.1	24.7	24.5	25.1	25.5
8H	24.5	25.0	25.0	25.4	25.9	24.0	24.6	24.5	25.0	25.5
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, 12681 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:12681.3x1 lm		
NAME: ASD-FLD-CORE-100YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
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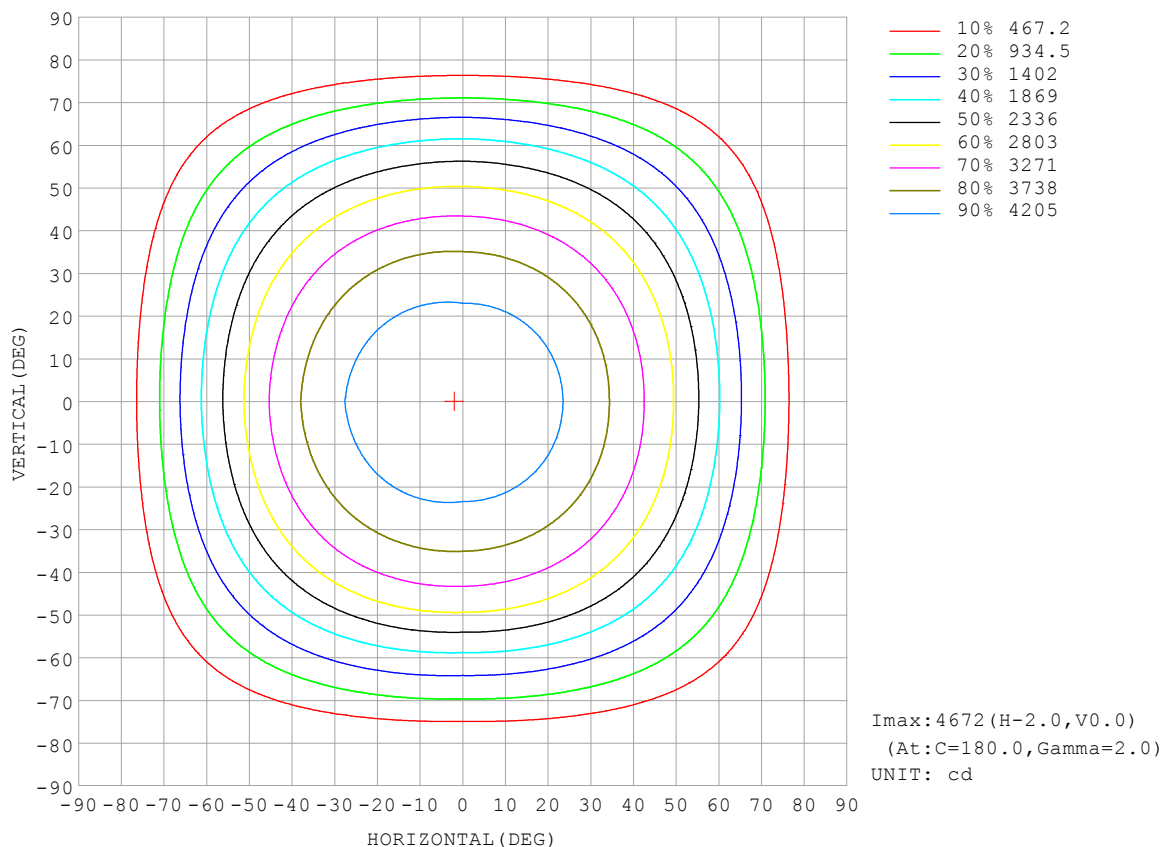
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	47	40	34
0.80	69	58	51	68	57	50	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		

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ISOCANDELA DIAGRAM

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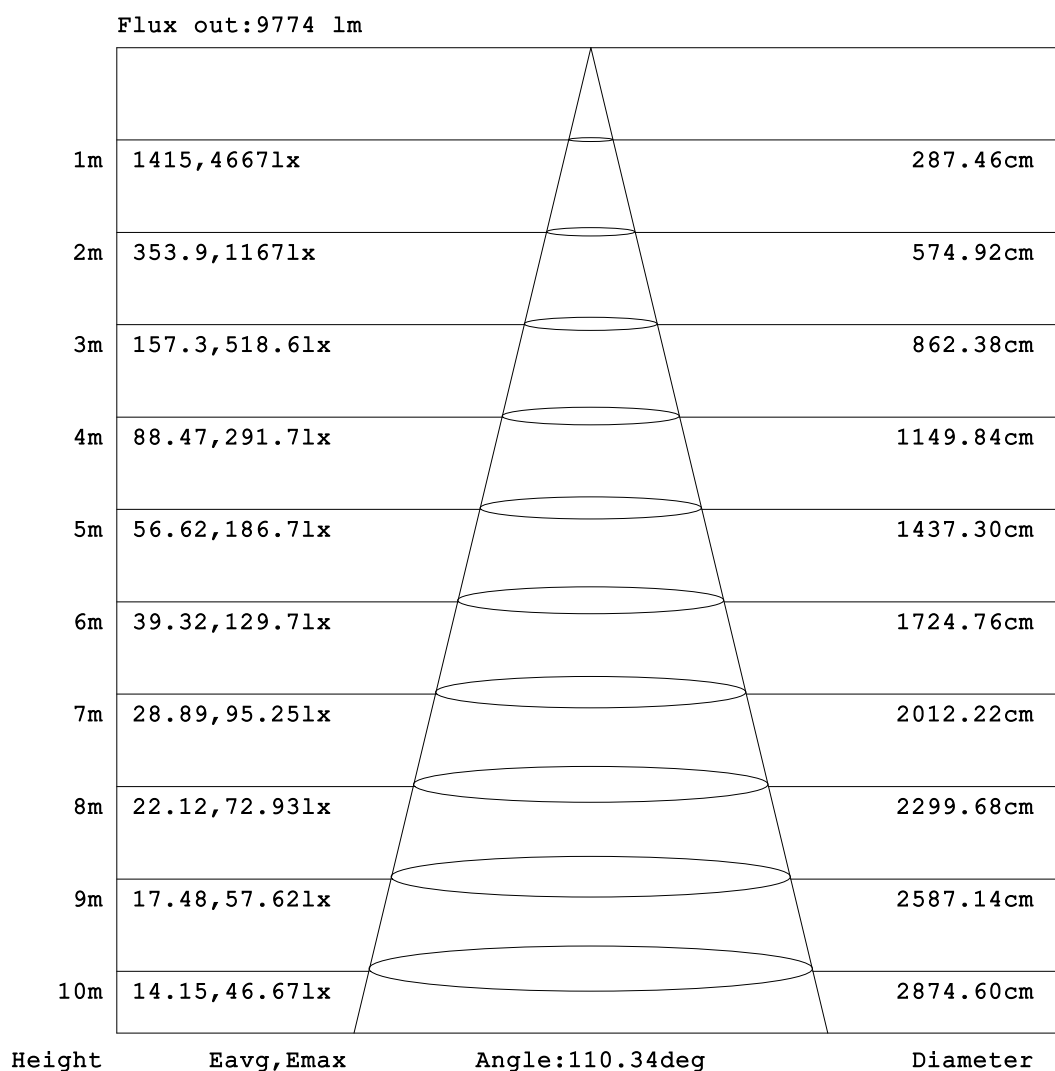


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AAI Figure

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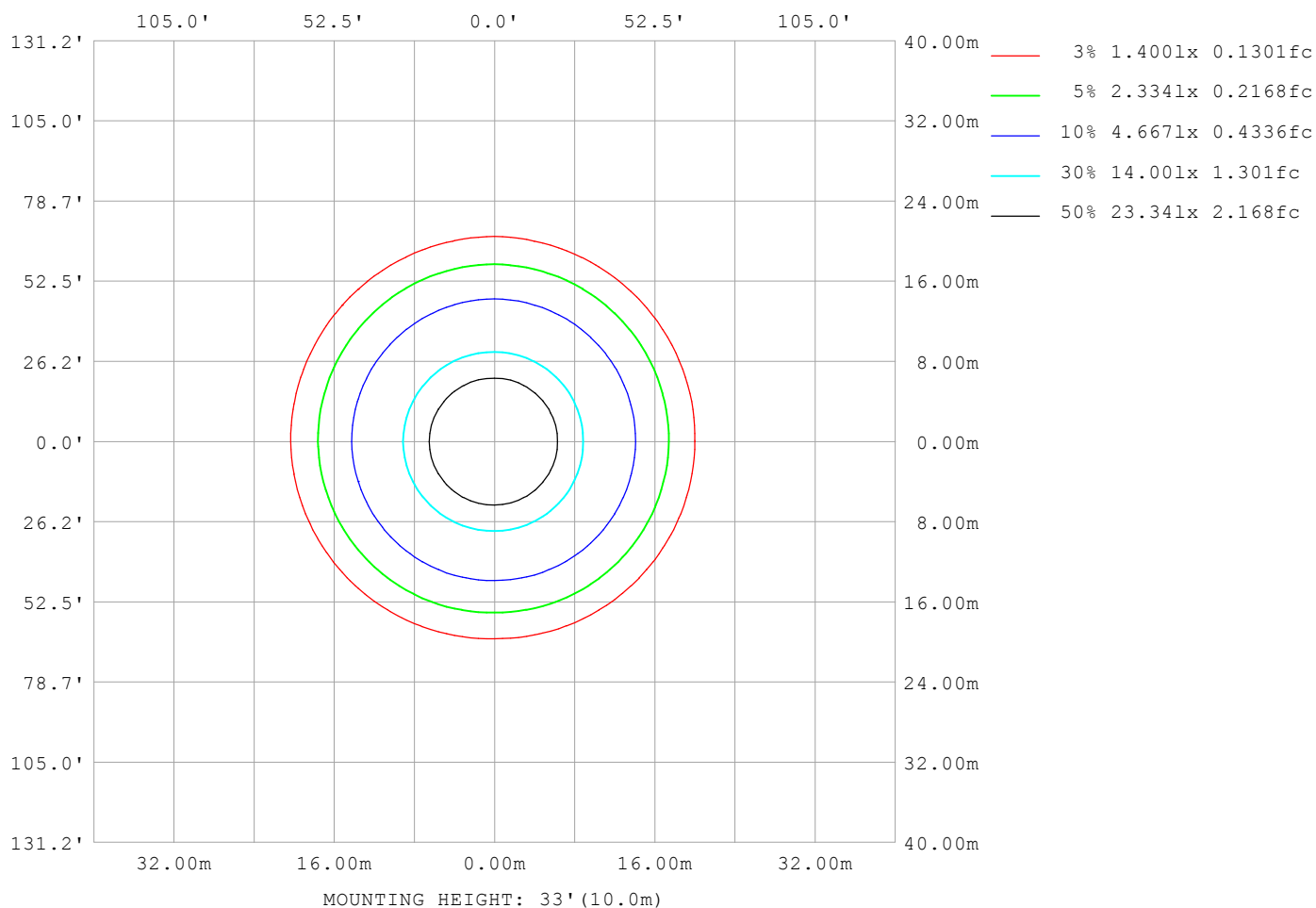
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12681.3x1 lm		
NAME: ASD-FLD-CORE-100YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
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LED Avg.L Report

Test:U:119.96V I:0.8747A P:98.782W PF:0.9414 Freq:50.00Hz Lamp Flux:12681.3x1 lm		
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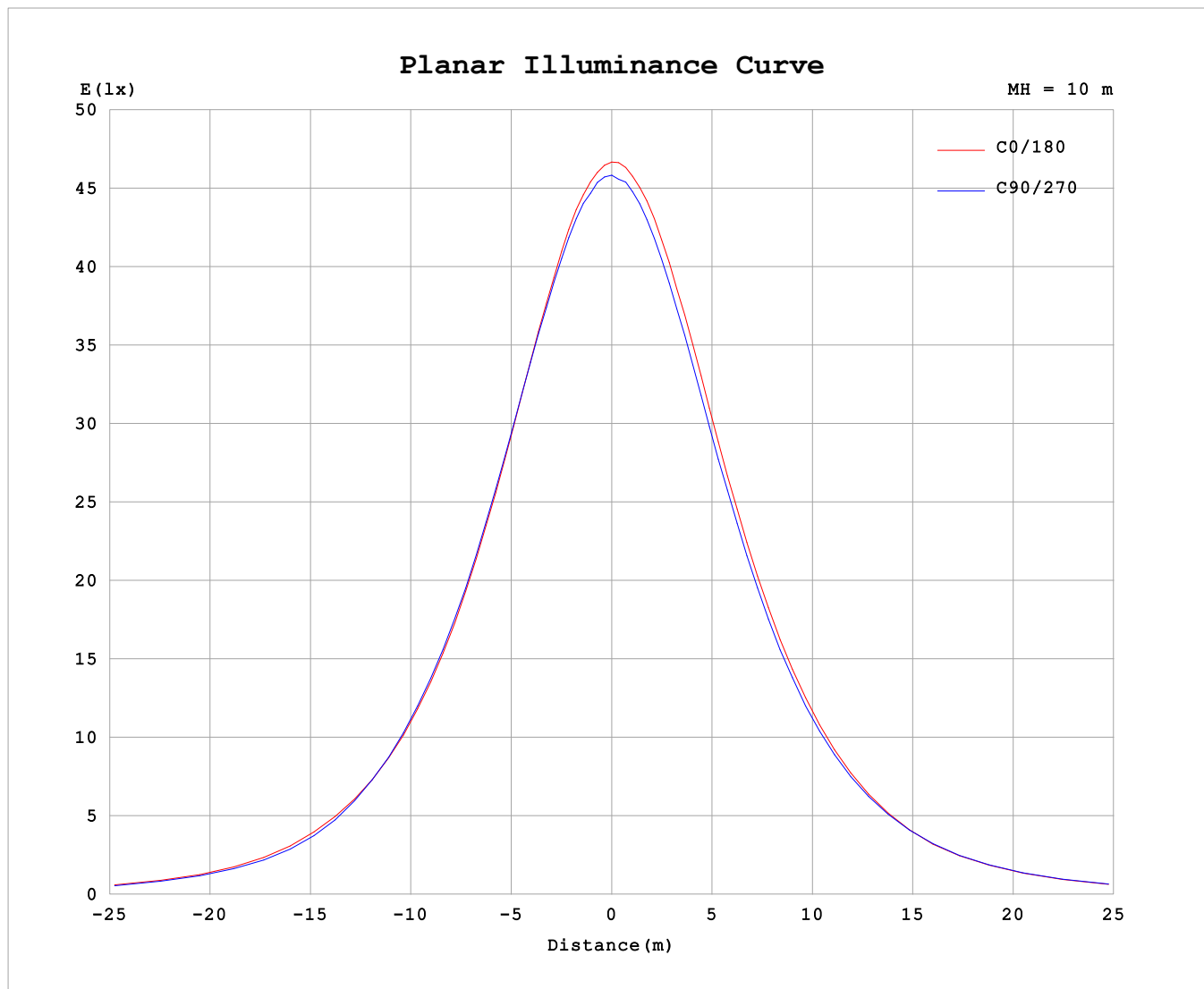
AvgL	cd/m2
L_0~180 (65) av	9593
L_0~180 (75) av	6062
L_0~180 (85) av	1176
L_90~270 (65) av	9561
L_90~270 (75) av	5620
L_90~270 (85) av	939
L_45 (65) av	9591
L_45 (75) av	5789
L_45 (85) av	1012

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:12681.3x1 lm		
NAME: ASD-FLD-CORE-100YK-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	4625	4625	4625	4625														
5	4574	4584	4610	4593														
10	4528	4550	4585	4544														
15	4384	4432	4492	4427														
20	4284	4346	4410	4333														
25	4076	4168	4228	4145														
30	3906	4016	4071	4004														
35	3616	3723	3798	3727														
40	3391	3506	3580	3499														
45	3009	3107	3197	3134														
50	2736	2781	2891	2854														
55	2256	2161	2337	2378														
60	1871	1781	1961	2017														
65	1330	1261	1411	1464														
70	996	920	1040	1072														
75	493	389	494	494														
80	236	145	215	205														
85	27.4	16.7	17.7	23.6														
90	1.31	0.80	0.76	0.72														
95	1.46	1.54	0.87	0.46														
100	2.07	2.14	1.18	0.85														
105	3.13	3.31	1.85	1.54														
110	3.97	4.11	2.35	2.11														
115	5.23	5.33	3.33	3.08														
120	5.99	6.11	4.03	3.90														
125	7.00	7.24	5.24	5.16														
130	7.61	7.93	5.99	5.93														
135	8.65	8.84	7.09	7.10														
140	9.18	9.38	7.84	7.84														
145	10.1	10.1	8.77	8.92														
150	10.6	10.6	9.41	9.58														
155	11.1	11.2	10.2	10.4														
160	11.4	11.5	10.7	10.9														
165	11.8	11.9	11.3	11.4														
170	12.0	12.1	11.6	11.5														
175	12.0	12.3	12.0	11.9														
180	11.9	12.3	12.1	12.1														

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: