

LUMINAIRE PHOTOMETRIC TEST REPORT

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

Lamp Flux:6058.27x1 lm

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

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

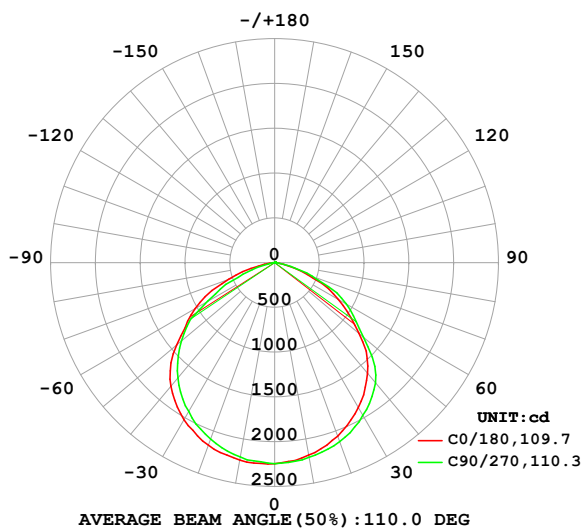
MFR.: ASD Lighting Corp

SUR.:

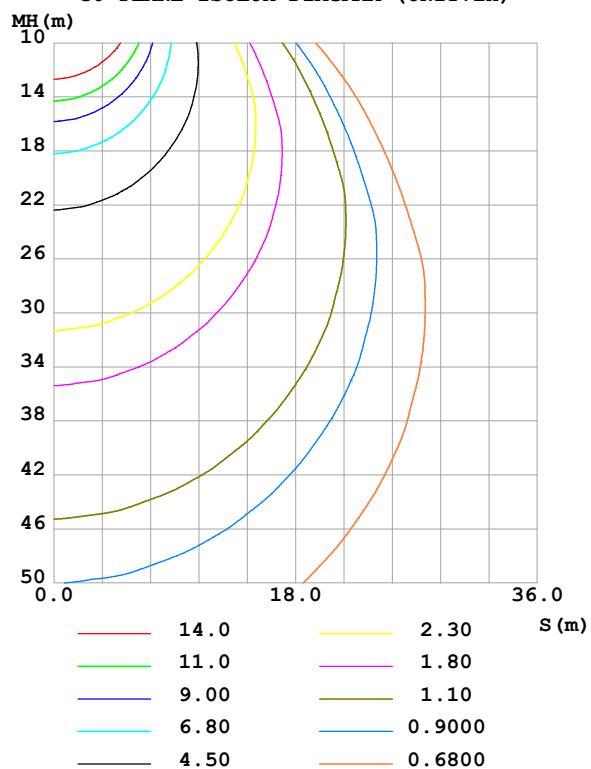
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 126.62 lm/W
MODEL	ASD-FLD-CORE-50YK-BK	I _{max} (cd)	2251	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)	6058.3	η UP,DN (C0-180)	0.1,48.5	
NOMINAL FLUX(lm)	6058.27	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°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	2183	2208	2238	2204					0- 10	212.5	212.5	3.51,3.51
20	2060	2125	2169	2095					10- 20	612.5	824.9	13.6,13.6
30	1870	1970	2027	1920					20- 30	939.7	1765	29.1,29.1
40	1614	1754	1801	1682					30- 40	1151	2915	48.1,48.1
50	1228	1294	1431	1360					40- 50	1188	4103	67.7,67.7
60	823.9	920.2	1023	863.6					50- 60	1001	5103	84.2,84.2
70	389.8	448.3	548.2	376.3					60- 70	674.0	5777	95.4,95.4
80	54.13	38.59	119.5	37.79					70- 80	248.2	6025	99.5,99.5
90	0.5589	0.2032	0.1438	0.2053					80- 90	17.48	6043	99.7,99.7
100	0.8038	0.7540	0.4313	0.2608					90-100	0.4243	6043	99.8,99.8
110	1.722	1.683	0.9481	0.8118					100-110	0.9551	6044	99.8,99.8
120	2.843	2.756	1.782	1.681					110-120	1.743	6046	99.8,99.8
130	3.619	3.625	2.701	2.666					120-130	2.422	6048	99.8,99.8
140	4.451	4.350	3.534	3.652					130-140	2.766	6051	99.9,99.9
150	4.883	4.900	4.280	4.436					140-150	2.702	6054	99.9,99.9
160	5.285	5.365	4.941	5.103					150-160	2.270	6056	100,100
170	5.458	5.683	5.343	5.480					160-170	1.509	6058	100,100
180	5.544	5.799	5.602	5.712					170-180	0.5298	6058	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3640.1 lm

%lum = 60.1%

%lamp = 60.1%

Conical surface Flux(120deg): 5103.3 lm

%lum = 84.2%

%lamp = 84.2%

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

Lamp Flux:6058.27x1 lm

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

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

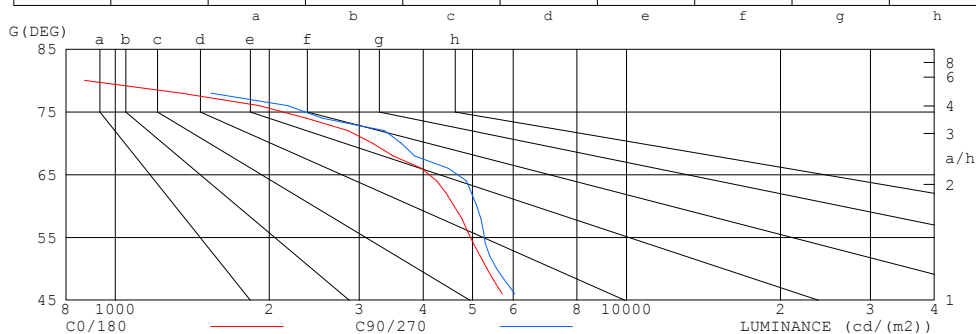
MFR.: ASD Lighting Corp

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	453
80	870	614
75	2513	2703
70	3180	3624
65	4408	5043
60	4599	5088
55	5143	5427
50	5330	5567
45	5883	6303

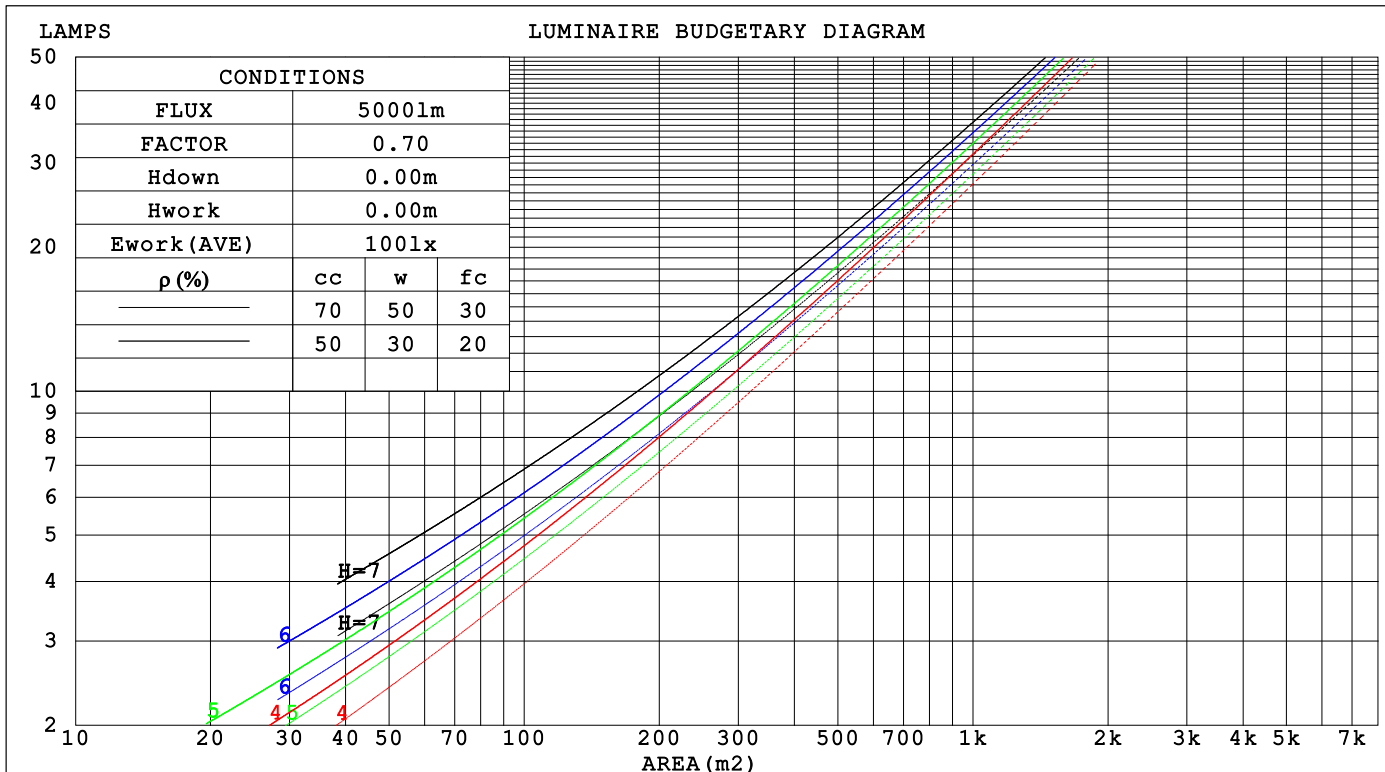
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-13

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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
p _{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	.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														



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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-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:6058.27x1 lm											
NAME: ASD-FLD-CORE-50YK-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	21.2	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	21.8	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	21.1	20.1	21.3	21.6	20.1	21.3	20.4	21.6	21.8
3H		20.8	21.9	21.2	22.2	22.6	21.2	22.3	21.6	22.6	22.9
4H		21.1	22.1	21.4	22.4	22.7	21.5	22.5	21.8	22.8	23.1
6H		21.1	22.0	21.5	22.3	22.7	21.4	22.3	21.8	22.7	23.1
8H		21.0	21.9	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	22.2	21.9	22.6	23.0
8H		21.1	21.7	21.6	22.1	22.6	21.5	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	22.9
12H 4H		21.1	21.8	21.5	22.2	22.6	21.4	22.2	21.9	22.6	23.0
6H		21.1	21.7	21.6	22.1	22.6	21.5	22.0	21.9	22.5	22.9
8H		21.1	21.6	21.6	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, 6058 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.3)
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:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

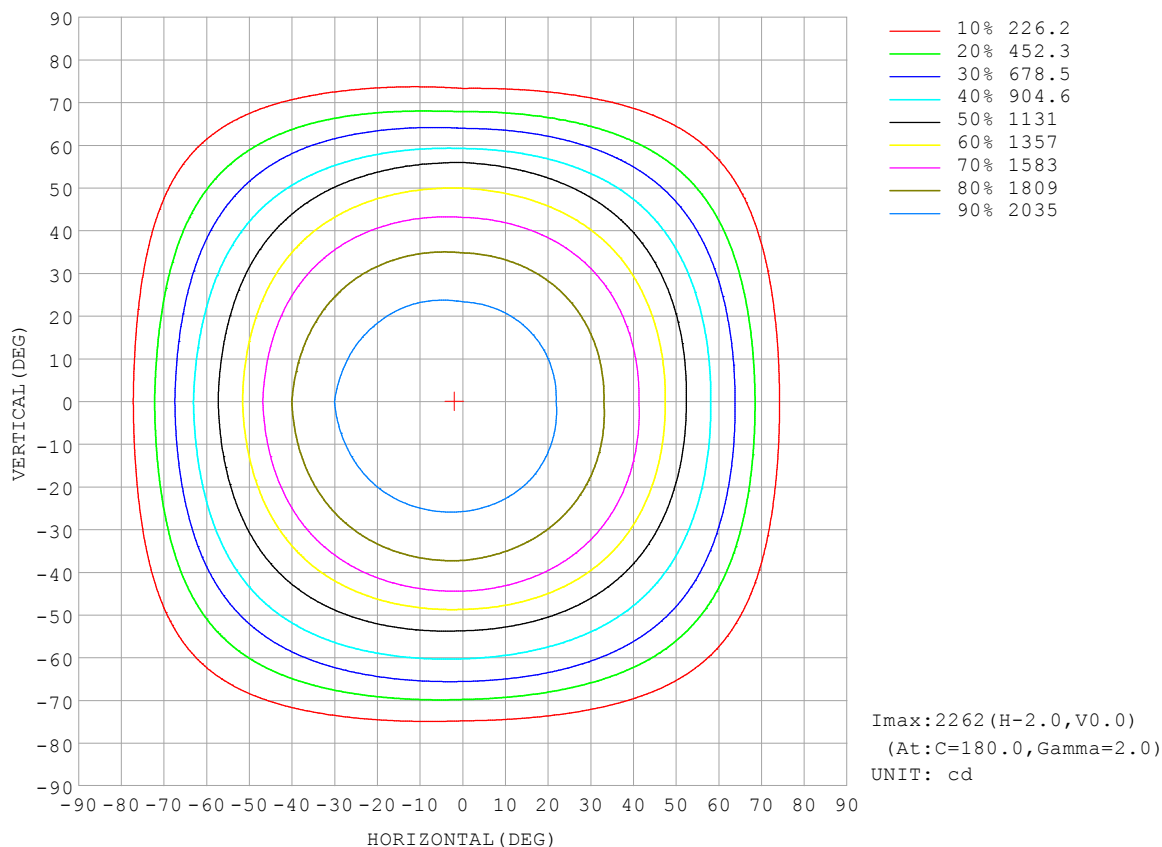
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	48	41	57	47	41	35
0.80	70	58	51	69	58	51	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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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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

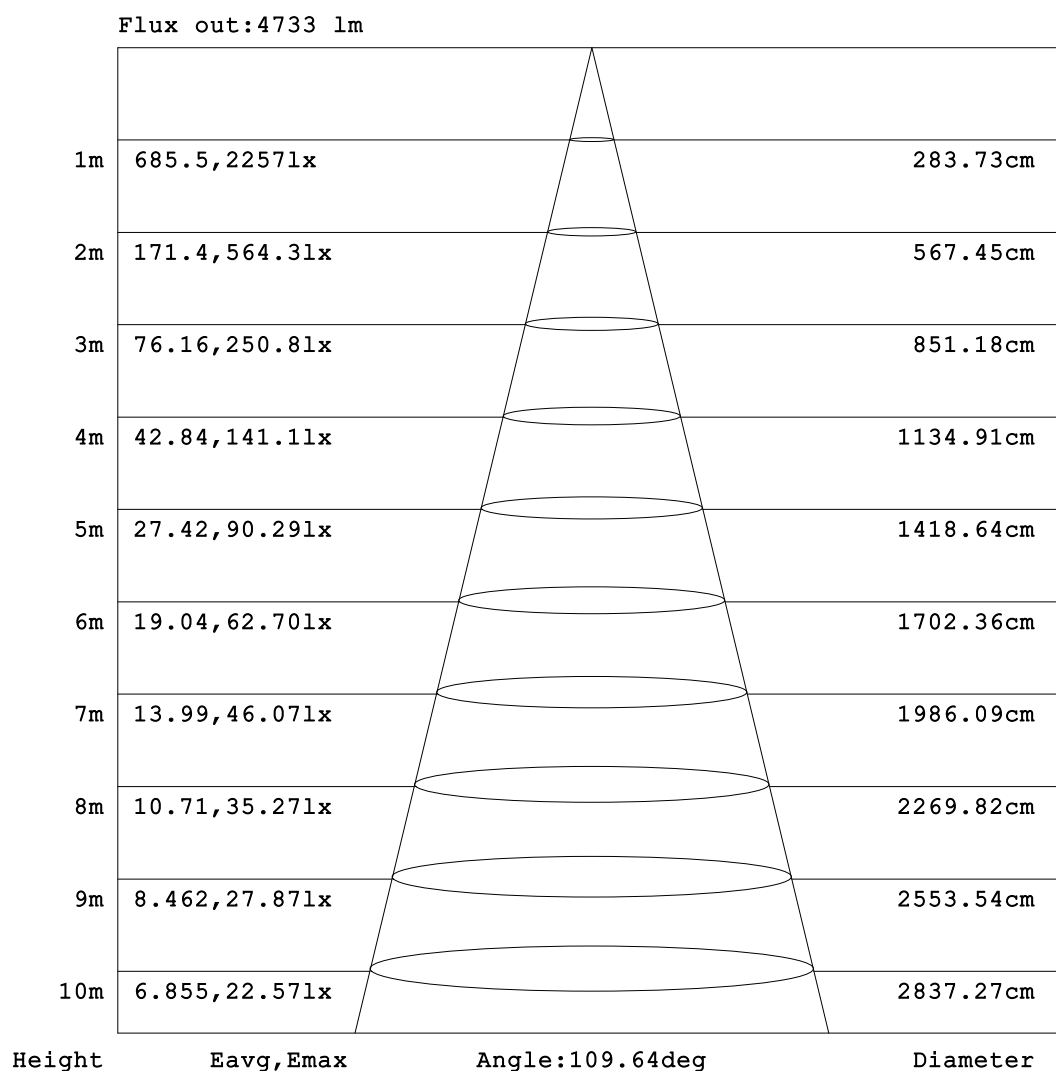


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
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γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



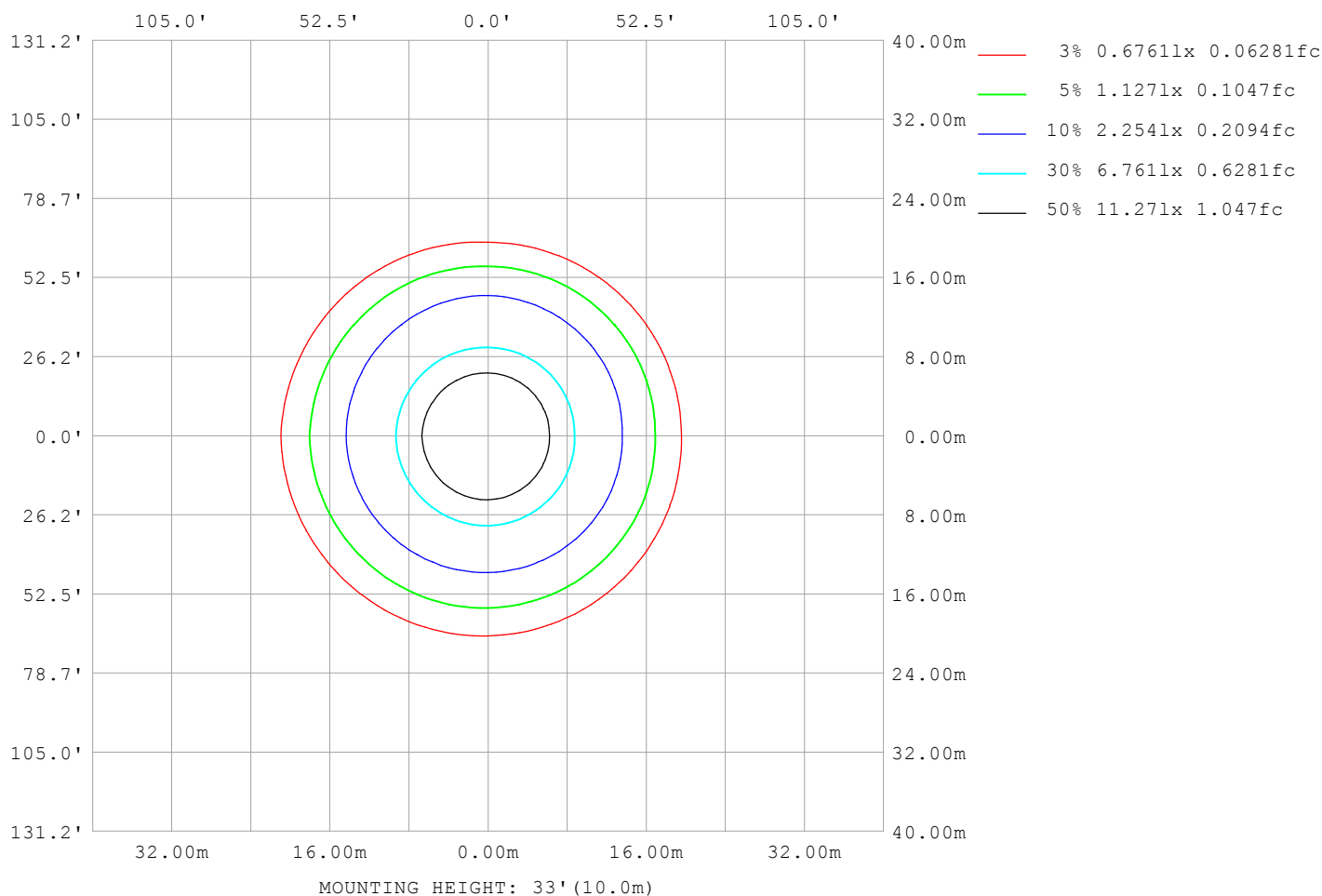
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°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:

ISOLUX DIAGRAM

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-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
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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:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

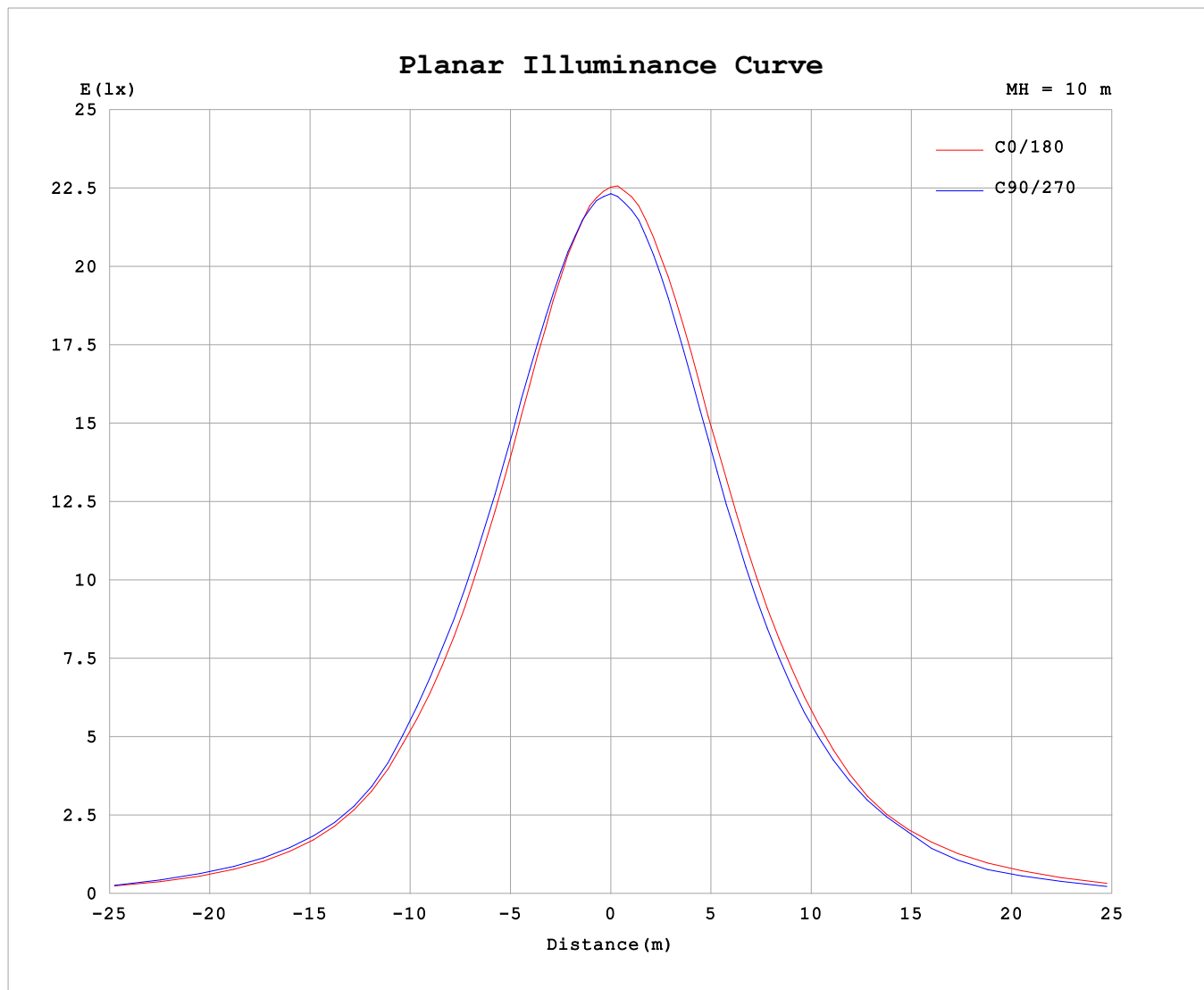
AvgL	cd/m2
L_0~180 (65) av	4747
L_0~180 (75) av	2806
L_0~180 (85) av	256
L_90~270 (65) av	4482
L_90~270 (75) av	2057
L_90~270 (85) av	200
L_45 (65) av	4621
L_45 (75) av	2382
L_45 (85) av	228

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:6058.27x1 lm		
NAME: ASD-FLD-CORE-50YK-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	2243	2243	2243	2243														
5	2220	2229	2249	2226														
10	2183	2208	2238	2204														
15	2119	2164	2204	2148														
20	2060	2125	2169	2095														
25	1950	2042	2084	2005														
30	1870	1970	2027	1920														
35	1721	1848	1901	1787														
40	1614	1754	1801	1682														
45	1423	1518	1610	1499														
50	1228	1294	1431	1360														
55	978	1062	1173	1134														
60	824	920	1023	864														
65	579	660	768	599														
70	390	448	548	376														
75	166	190	276	125														
80	54.1	38.6	119	37.8														
85	1.85	5.15	7.51	1.89														
90	0.56	0.20	0.14	0.21														
95	0.66	0.49	0.23	0.24														
100	0.80	0.75	0.43	0.26														
105	1.35	1.28	0.72	0.46														
110	1.72	1.68	0.95	0.81														
115	2.41	2.35	1.38	1.25														
120	2.84	2.76	1.78	1.68														
125	3.27	3.28	2.30	2.26														
130	3.62	3.63	2.70	2.67														
135	4.08	4.06	3.25	3.39														
140	4.45	4.35	3.53	3.65														
145	4.62	4.70	4.02	4.09														
150	4.88	4.90	4.28	4.44														
155	5.08	5.19	4.74	4.96														
160	5.29	5.36	4.94	5.10														
165	5.40	5.57	5.20	5.36														
170	5.46	5.68	5.34	5.48														
175	5.52	5.71	5.52	5.62														
180	5.54	5.80	5.60	5.71														

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: