

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz
Lamp Flux:6048.64x1 lm

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

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

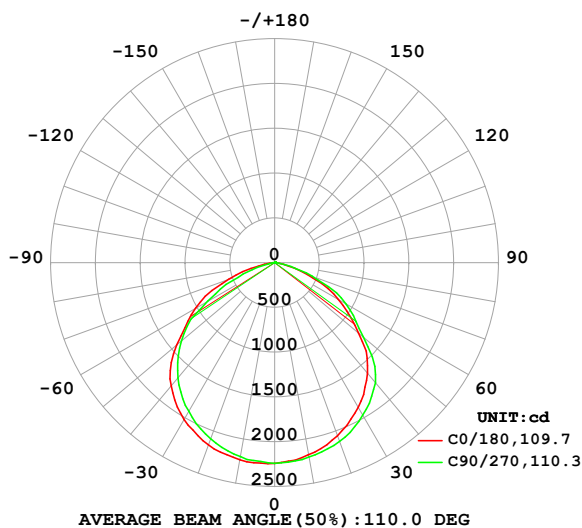
MFR.: ASD Lighting Corp

SUR.:

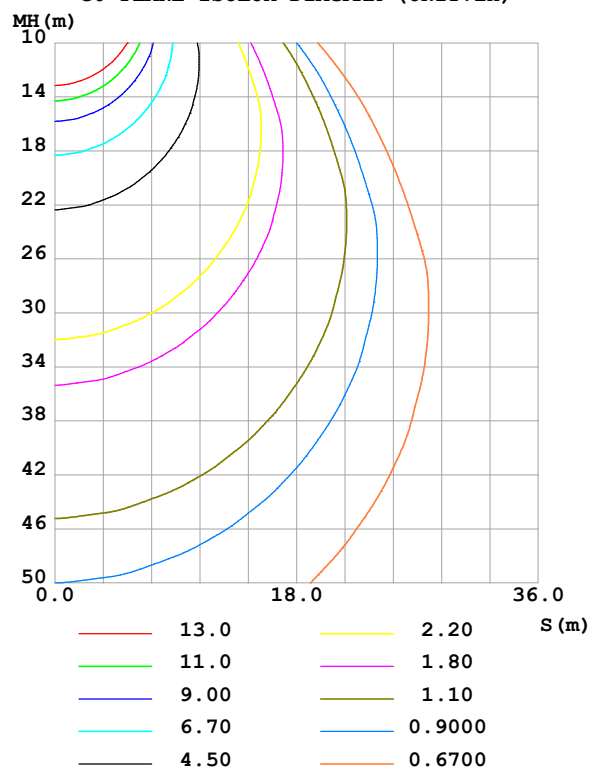
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 126.41 lm/W
MODEL	ASD-FLD-CORE-50YK-BK-CP	I _{max} (cd)	2247	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)	6048.6	η UP, DN (C0-180)	0.1, 48.5	
NOMINAL FLUX (lm)	6048.64	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	2179	2204	2235	2201					0- 10	212.1	212.1	3.51,3.51
20	2057	2121	2165	2092					10- 20	611.5	823.6	13.6,13.6
30	1867	1967	2024	1917					20- 30	938.2	1762	29.1,29.1
40	1611	1751	1799	1680					30- 40	1149	2911	48.1,48.1
50	1226	1292	1429	1358					40- 50	1186	4096	67.7,67.7
60	822.6	918.7	1021	862.2					50- 60	999.0	5095	84.2,84.2
70	389.1	447.6	547.4	375.7					60- 70	672.9	5768	95.4,95.4
80	54.04	38.53	119.3	37.73					70- 80	247.8	6016	99.5,99.5
90	0.5580	0.2029	0.1436	0.2050					80- 90	17.45	6033	99.7,99.7
100	0.8026	0.7528	0.4306	0.2604					90-100	0.4236	6034	99.8,99.8
110	1.719	1.680	0.9466	0.8105					100-110	0.9536	6035	99.8,99.8
120	2.838	2.751	1.779	1.678					110-120	1.741	6036	99.8,99.8
130	3.613	3.620	2.697	2.662					120-130	2.418	6039	99.8,99.8
140	4.444	4.343	3.529	3.646					130-140	2.762	6042	99.9,99.9
150	4.876	4.893	4.273	4.428					140-150	2.698	6044	99.9,99.9
160	5.277	5.356	4.933	5.095					150-160	2.266	6047	100,100
170	5.449	5.674	5.335	5.471					160-170	1.507	6048	100,100
180	5.535	5.790	5.593	5.703					170-180	0.5289	6049	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3634.3 lm

%lum = 60.1%

%lamp = 60.1%

Conical surface Flux(120deg): 5095.2 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:6048.64x1 lm

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

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

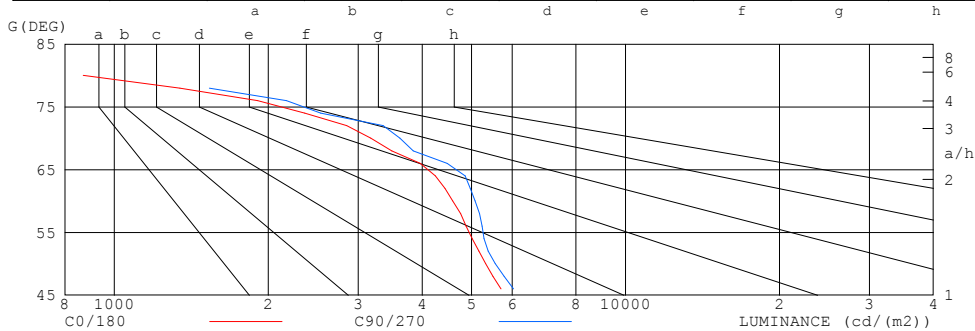
MFR.: ASD Lighting Corp

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	869	613
75	2509	2699
70	3175	3618
65	4401	5035
60	4591	5080
55	5135	5418
50	5322	5558
45	5874	6293

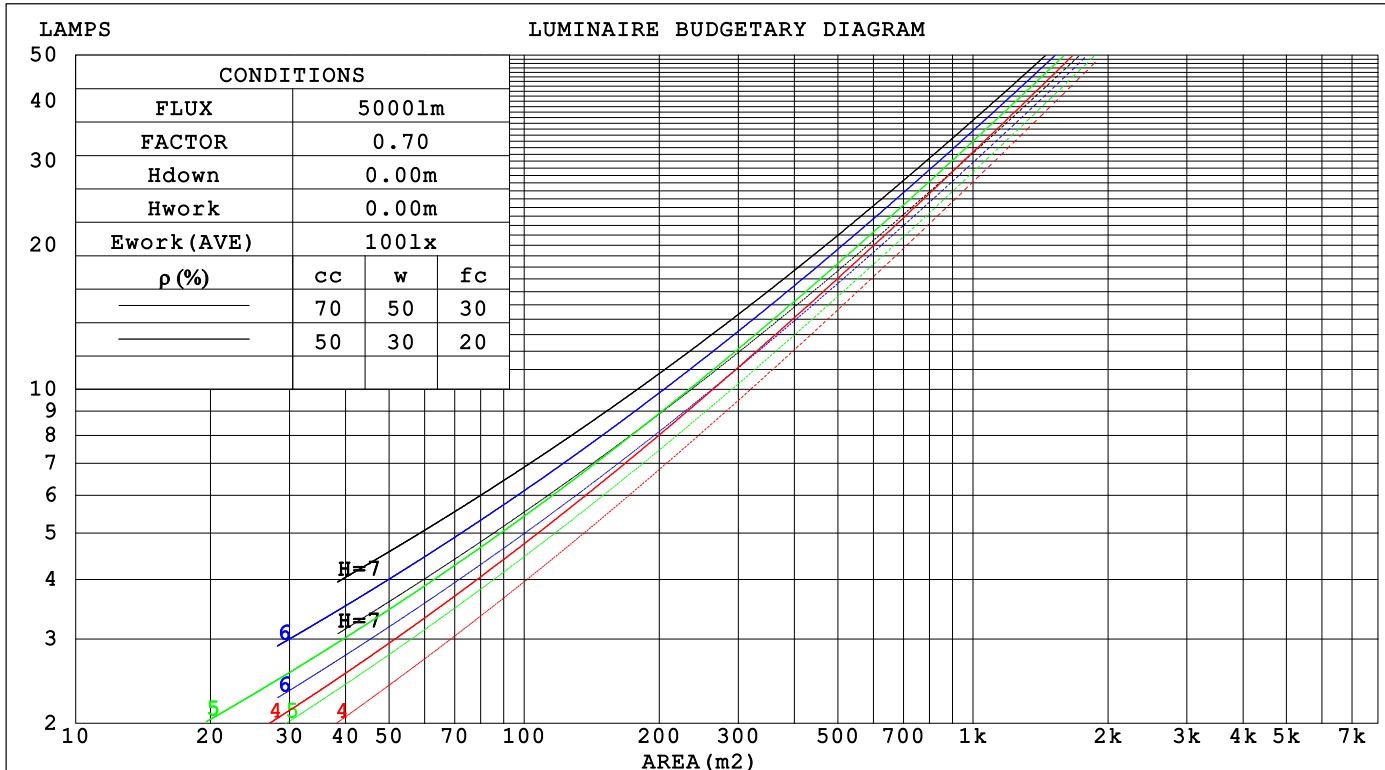
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6048.64x1 lm		
NAME: ASD-FLD-CORE-50YK-BK-CP	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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C Interval: 90.0DEG
Test Speed: HIGH
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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:6048.64x1 lm		
NAME: ASD-FLD-CORE-50YK-BK-CP	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:6048.64x1 lm											
NAME: ASD-FLD-CORE-50YK-BK-CP					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	22.5	21.2	22.3	21.6	22.6	22.9
4H		21.1	22.1	21.4	22.4	22.7	21.4	22.5	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	23.0
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	22.2	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	21.4	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, 6049 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.3$)
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:6048.64x1 lm		
NAME: ASD-FLD-CORE-50YK-BK-CP	TYPE:	WEIGHT:
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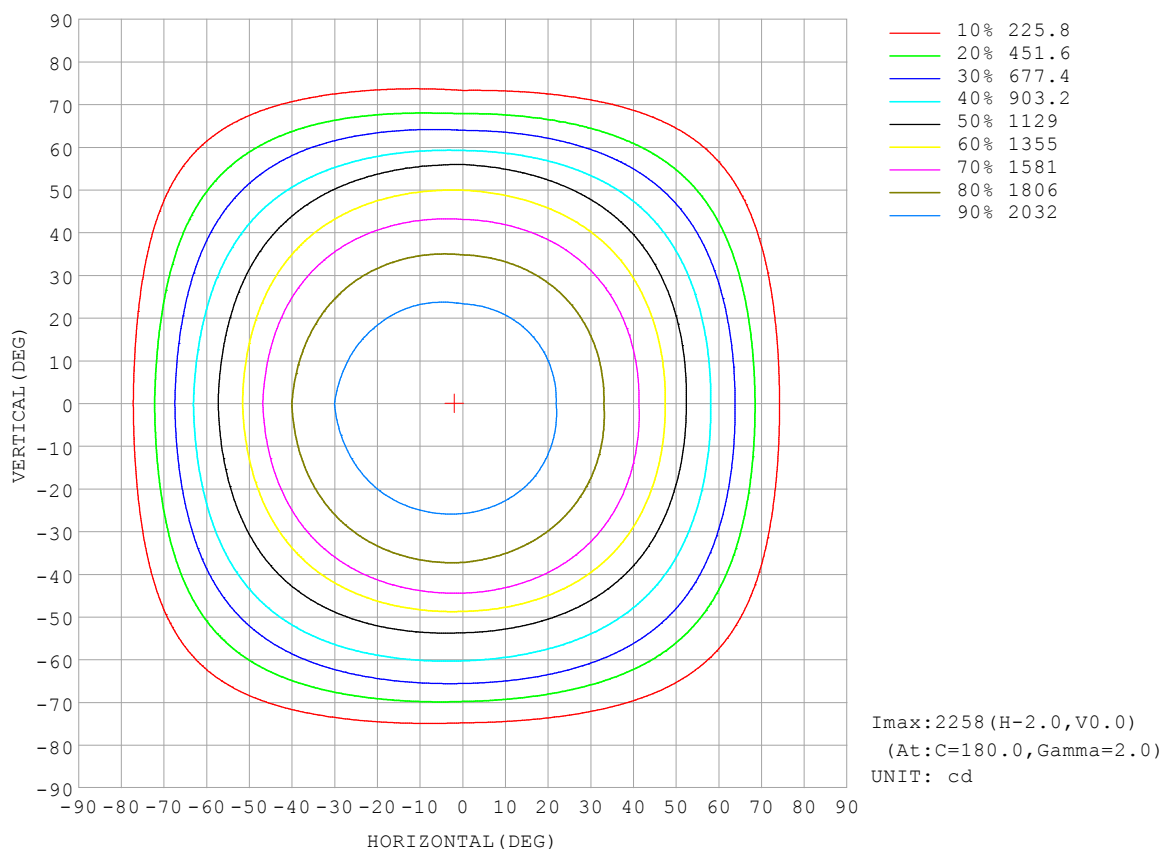
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	48	41	57	47	41	35
0.80	70	58	51	69	58	51	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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 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
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Remarks:

ISOCANDELA DIAGRAM

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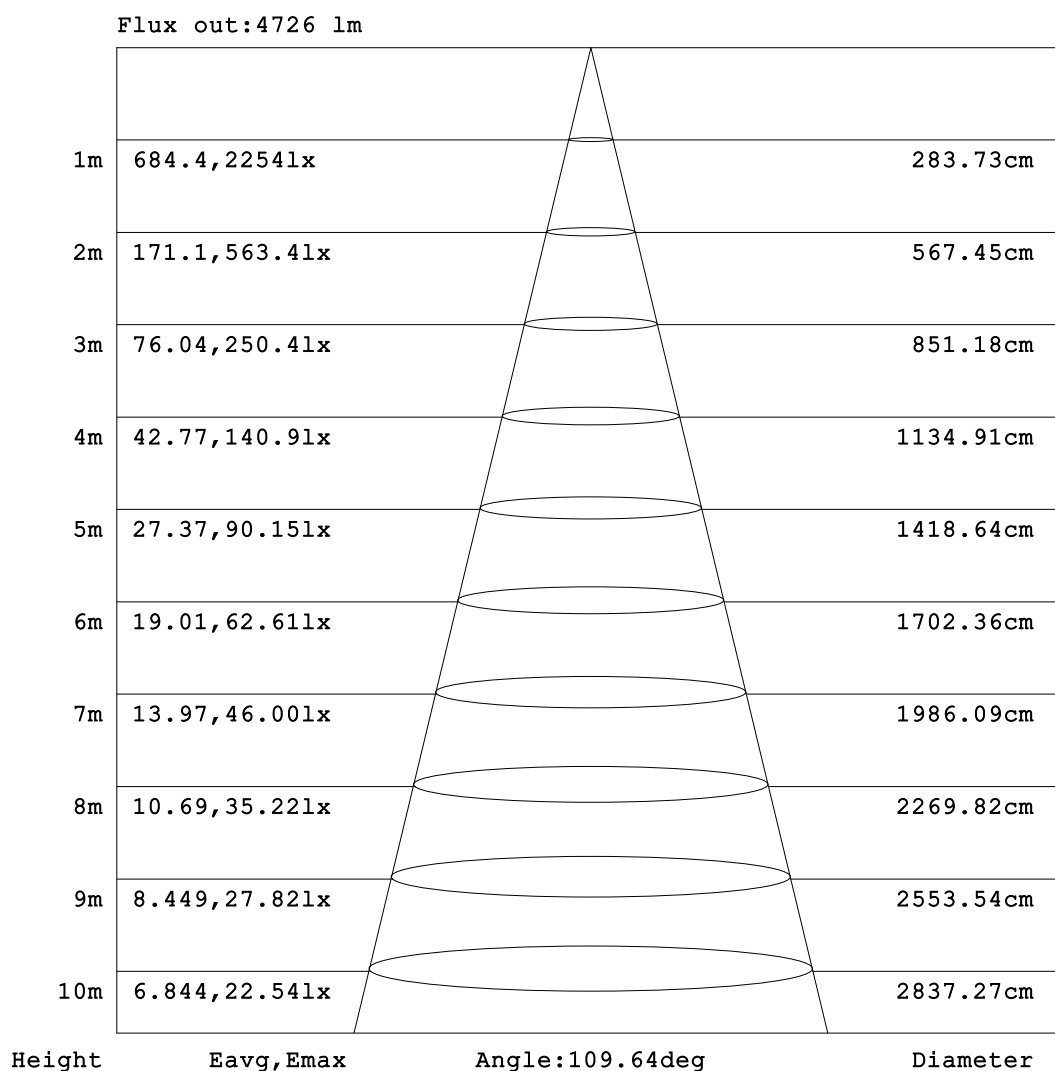


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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6048.64x1 lm		
NAME: ASD-FLD-CORE-50YK-BK-CP	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



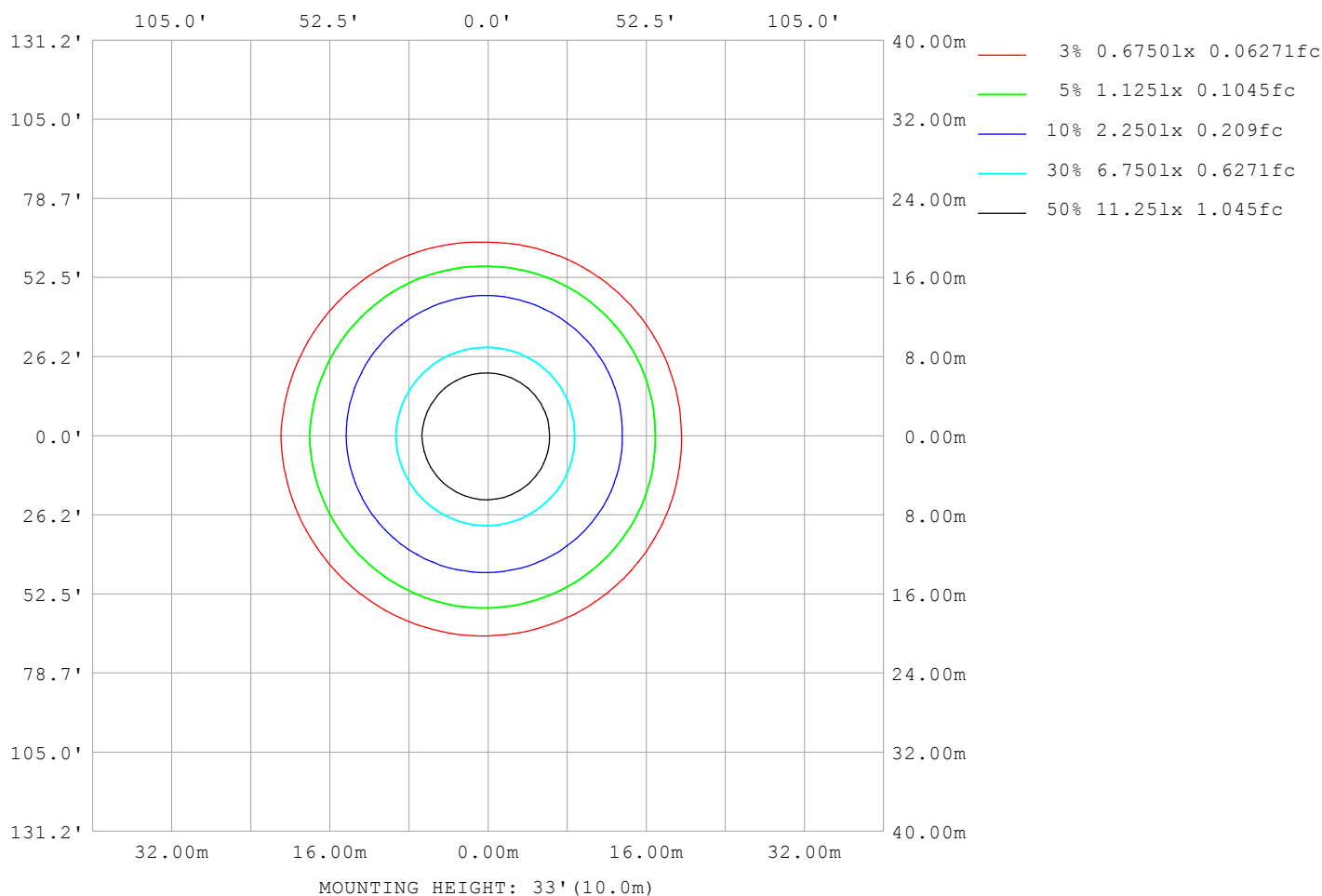
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
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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:6048.64x1 lm		
NAME: ASD-FLD-CORE-50YK-BK-CP	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



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Remarks:

LED Avg.L Report

Test:U:119.94V I:0.4212A P:47.848W PF:0.9472 Freq:50.00Hz Lamp Flux:6048.64x1 lm		
NAME: ASD-FLD-CORE-50YK-BK-CP	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

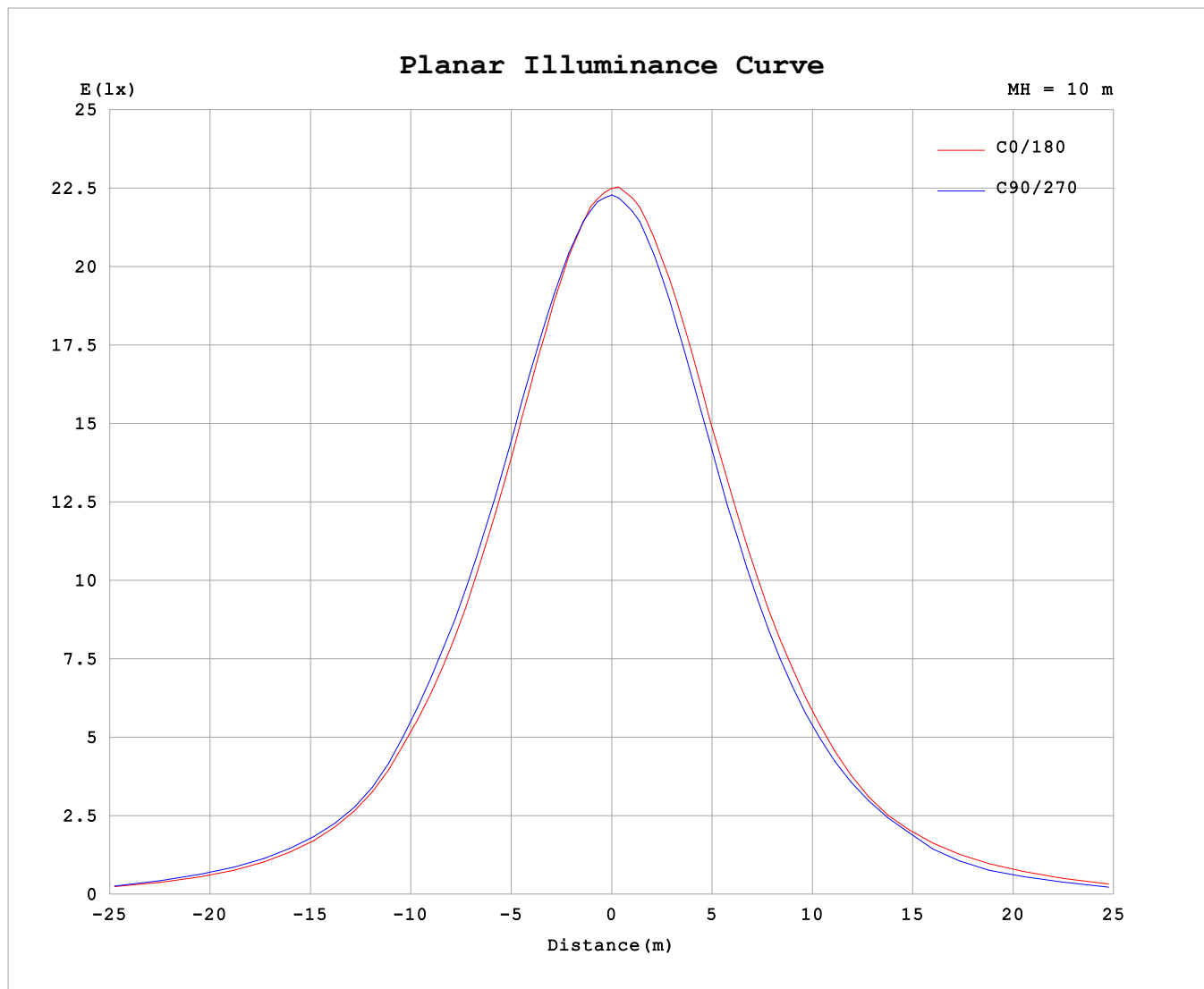
AvgL	cd/m2
L_0~180 (65) av	4739
L_0~180 (75) av	2801
L_0~180 (85) av	256
L_90~270 (65) av	4475
L_90~270 (75) av	2054
L_90~270 (85) av	199
L_45 (65) av	4614
L_45 (75) av	2378
L_45 (85) av	228

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

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NAME: ASD-FLD-CORE-50YK-BK-CP	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	2240	2240	2240	2240														
5	2217	2225	2245	2222														
10	2179	2204	2235	2201														
15	2116	2160	2200	2145														
20	2057	2121	2165	2092														
25	1946	2038	2080	2002														
30	1867	1967	2024	1917														
35	1718	1845	1898	1784														
40	1611	1751	1799	1680														
45	1421	1516	1608	1497														
50	1226	1292	1429	1358														
55	977	1060	1171	1132														
60	823	919	1021	862														
65	578	659	767	598														
70	389	448	547	376														
75	165	190	275	125														
80	54.0	38.5	119	37.7														
85	1.84	5.14	7.50	1.88														
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	1.27	0.72	0.46														
110	1.72	1.68	0.95	0.81														
115	2.41	2.35	1.38	1.24														
120	2.84	2.75	1.78	1.68														
125	3.27	3.27	2.29	2.26														
130	3.61	3.62	2.70	2.66														
135	4.07	4.05	3.24	3.39														
140	4.44	4.34	3.53	3.65														
145	4.62	4.69	4.02	4.08														
150	4.88	4.89	4.27	4.43														
155	5.08	5.18	4.73	4.95														
160	5.28	5.36	4.93	5.09														
165	5.39	5.56	5.19	5.36														
170	5.45	5.67	5.33	5.47														
175	5.51	5.70	5.51	5.62														
180	5.54	5.79	5.59	5.70														

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

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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