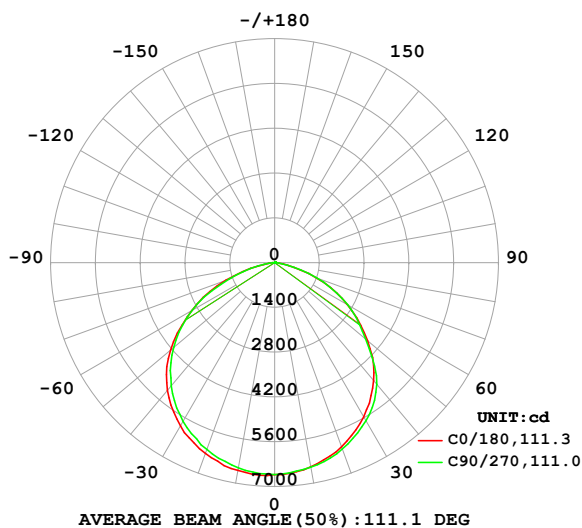


LUMINAIRE PHOTOMETRIC TEST REPORT

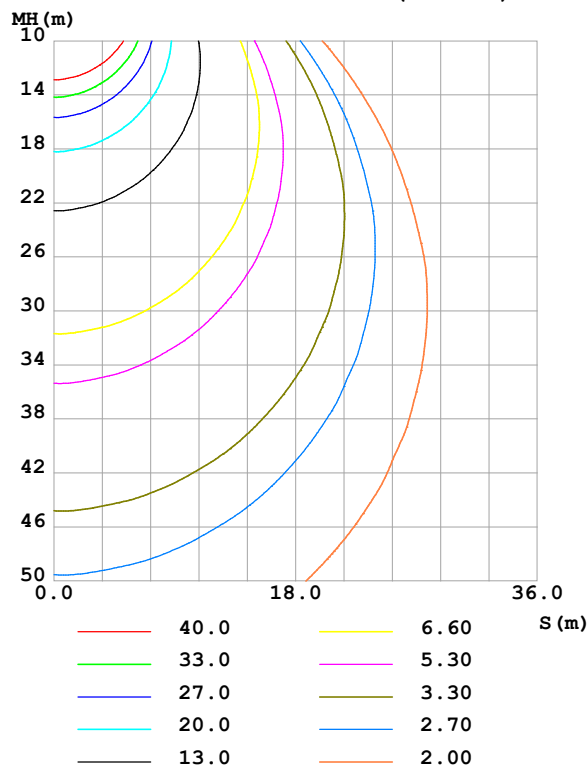
Test:U:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 127.19 lm/W
MODEL	ASD-FLD-CORE-150YK-BK	I _{max} (cd)	6663	S/MH (C0/180)	1.32	
NOMINAL POWER(W)	144	LOR (%)	100.0	S/MH (C90/270)	1.28	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	18270	η UP,DN (C0-180)	0.2,48.1	
NOMINAL FLUX(lm)	18270.5	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,51.6	
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°C
Operators:
Test Date: 2026-03-14

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	6487	6496	6593	6515					0- 10	627.7	627.7	3.44,3.44
20	6126	6198	6343	6210					10- 20	1806	2434	13.3,13.3
30	5577	5716	5897	5728					20- 30	2764	5198	28.5,28.5
40	4811	4965	5217	5035					30- 40	3374	8572	46.9,46.9
50	3786	3711	4251	4122					40- 50	3484	12056	66,66
60	2631	2636	3000	2979					50- 60	3038	15094	82.6,82.6
70	1383	1406	1632	1513					60- 70	2144	17238	94.3,94.3
80	281.0	248.2	346.3	331.9					70- 80	892.3	18130	99.2,99.2
90	2.313	1.357	2.256	0.8368					80- 90	91.25	18221	99.7,99.7
100	3.504	3.138	1.782	1.410					90-100	1.967	18223	99.7,99.7
110	6.046	6.020	3.253	3.217					100-110	3.704	18227	99.8,99.8
120	8.955	8.900	5.541	5.534					110-120	5.871	18233	99.8,99.8
130	11.53	11.41	8.312	8.358					120-130	7.689	18240	99.8,99.8
140	13.68	13.39	10.91	11.07					130-140	8.597	18249	99.9,99.9
150	15.35	15.00	13.23	13.39					140-150	8.314	18257	99.9,99.9
160	16.50	16.33	15.15	15.28					150-160	6.955	18264	100,100
170	17.49	17.20	16.56	16.64					160-170	4.649	18269	100,100
180	17.38	17.37	17.41	17.29					170-180	1.637	18270	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10689 lm

%lum = 58.5%

%lamp = 58.5%

Conical surface Flux(120deg): 15094 lm

%lum = 82.6%

%lamp = 82.6%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz

Lamp Flux:18270.5x1 lm

NAME: ASD-FLD-CORE-150YK-BK

TYPE:

WEIGHT:

SPEC.: 5000K

DIM.:

SERIAL No.: 027

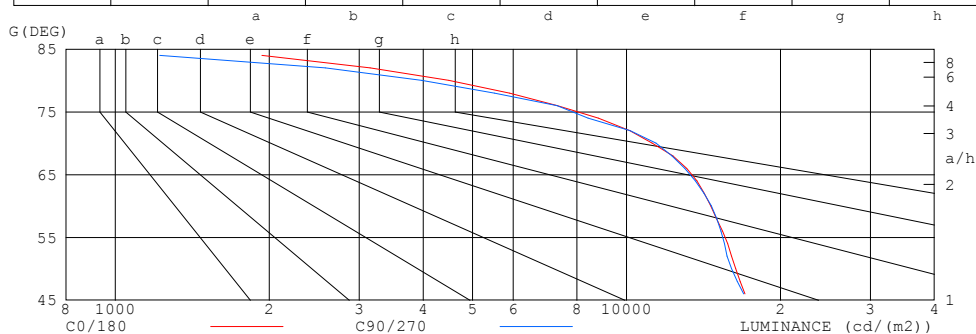
MFR.: ASD Lighting Corp

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



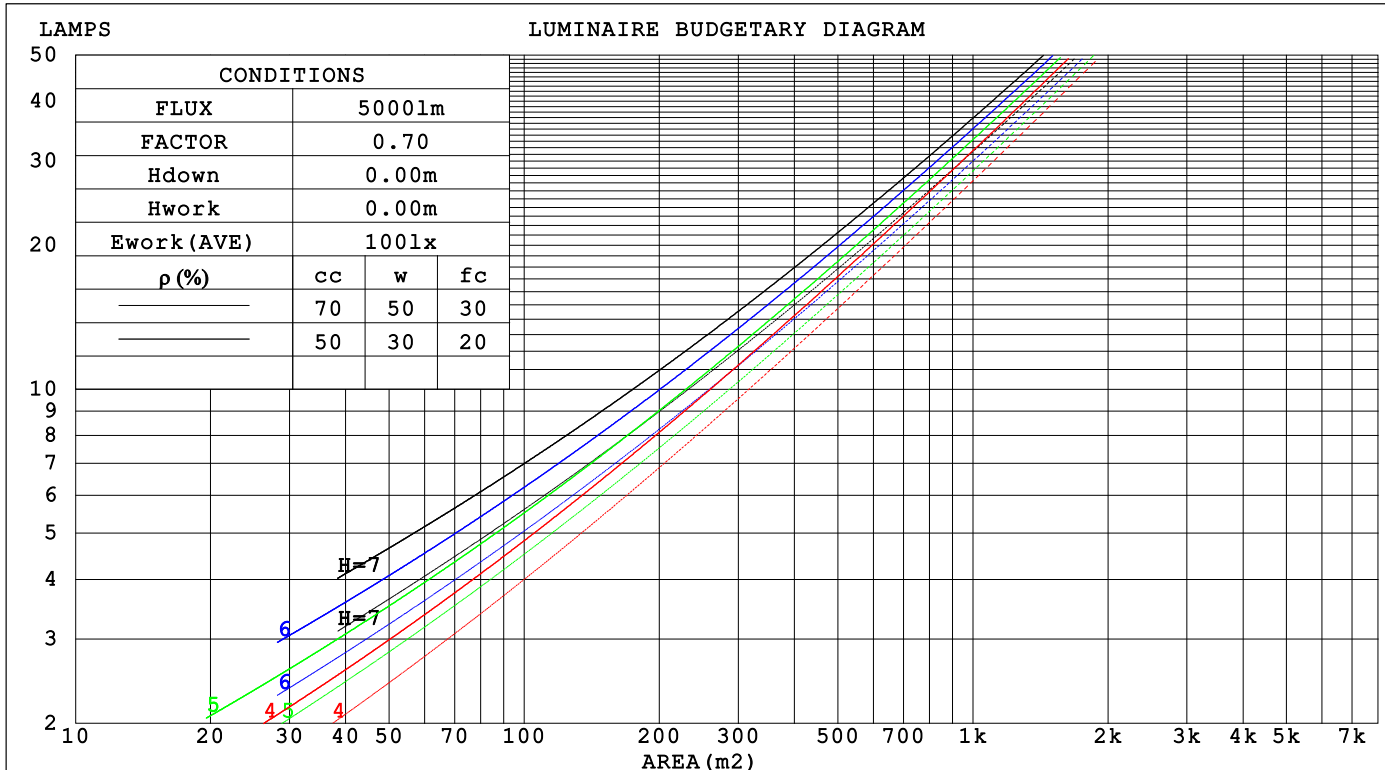
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-14

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-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	.87	.85
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.66	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.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	.53	.47	.42	.52	.46	.41	.39
7.0	.53	.44	.38	.52	.43	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.34	.46	.39	.33	.45	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-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	.284	.161	.051	.277	.158	.050	.263	.151	.048	.251	.145	.046	.240	.139	.045		
2.0	.275	.150	.046	.268	.148	.046	.257	.143	.044	.246	.138	.043	.236	.133	.042		
3.0	.258	.137	.041	.253	.135	.041	.242	.131	.040	.233	.127	.039	.224	.124	.038		
4.0	.241	.125	.037	.236	.123	.036	.226	.120	.036	.218	.117	.035	.210	.114	.035		
5.0	.224	.114	.033	.220	.113	.033	.211	.110	.032	.204	.108	.032	.197	.105	.032		
6.0	.209	.105	.030	.205	.103	.030	.198	.101	.029	.191	.099	.029	.184	.097	.029		
7.0	.195	.096	.027	.192	.095	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026		
8.0	.183	.089	.025	.180	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.079	.023	.154	.078	.023		
10.0	.162	.077	.022	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.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	.181	.158	.139	.155	.136	.119	.106	.094	.082	.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	.047	.056	.041	.028	.018	.013	.009		
4.0	.157	.103	.062	.135	.089	.054	.093	.062	.038	.054	.036	.022	.017	.012	.007		
5.0	.150	.092	.050	.129	.080	.044	.089	.056	.031	.051	.033	.018	.017	.011	.006		
6.0	.143	.084	.042	.123	.073	.037	.085	.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:2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm										
NAME: ASD-FLD-CORE-150YK-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	23.2	24.7	23.5	24.9	25.1	23.2	24.7	23.5	24.9	25.1
3H	24.4	25.7	24.7	26.0	26.2	24.4	25.7	24.7	26.0	26.2
4H	24.6	25.9	25.0	26.2	26.4	24.6	25.9	24.9	26.2	26.4
6H	24.7	25.9	25.0	26.2	26.4	24.6	25.9	25.0	26.1	26.4
8H	24.6	25.8	25.0	26.1	26.4	24.6	25.8	24.9	26.1	26.4
12H	24.6	25.7	25.0	26.0	26.3	24.6	25.7	24.9	26.0	26.3
4H 2H	23.7	25.0	24.0	25.3	25.5	23.7	25.0	24.0	25.3	25.5
3H	25.0	26.1	25.4	26.4	26.7	25.0	26.1	25.4	26.4	26.7
4H	25.3	26.4	25.7	26.7	27.0	25.3	26.3	25.7	26.7	27.0
6H	25.4	26.3	25.8	26.7	27.1	25.4	26.3	25.8	26.7	27.0
8H	25.4	26.3	25.8	26.6	27.0	25.4	26.2	25.8	26.6	27.0
12H	25.4	26.1	25.8	26.5	26.9	25.3	26.1	25.8	26.5	26.9
8H 4H	25.4	26.3	25.8	26.6	27.0	25.4	26.2	25.8	26.6	27.0
6H	25.5	26.2	26.0	26.6	27.1	25.5	26.2	26.0	26.6	27.0
8H	25.5	26.2	26.0	26.6	27.0	25.5	26.1	26.0	26.5	27.0
12H	25.5	26.0	26.0	26.5	27.0	25.5	26.0	25.9	26.4	26.9
12H 4H	25.4	26.1	25.8	26.5	26.9	25.4	26.1	25.8	26.5	26.9
6H	25.5	26.1	26.0	26.6	27.0	25.5	26.1	25.9	26.5	27.0
8H	25.5	26.0	26.0	26.5	27.0	25.5	26.0	26.0	26.4	26.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.4				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.5				

CIE Pub.117, 18270 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.1$)
Area: 0.36 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

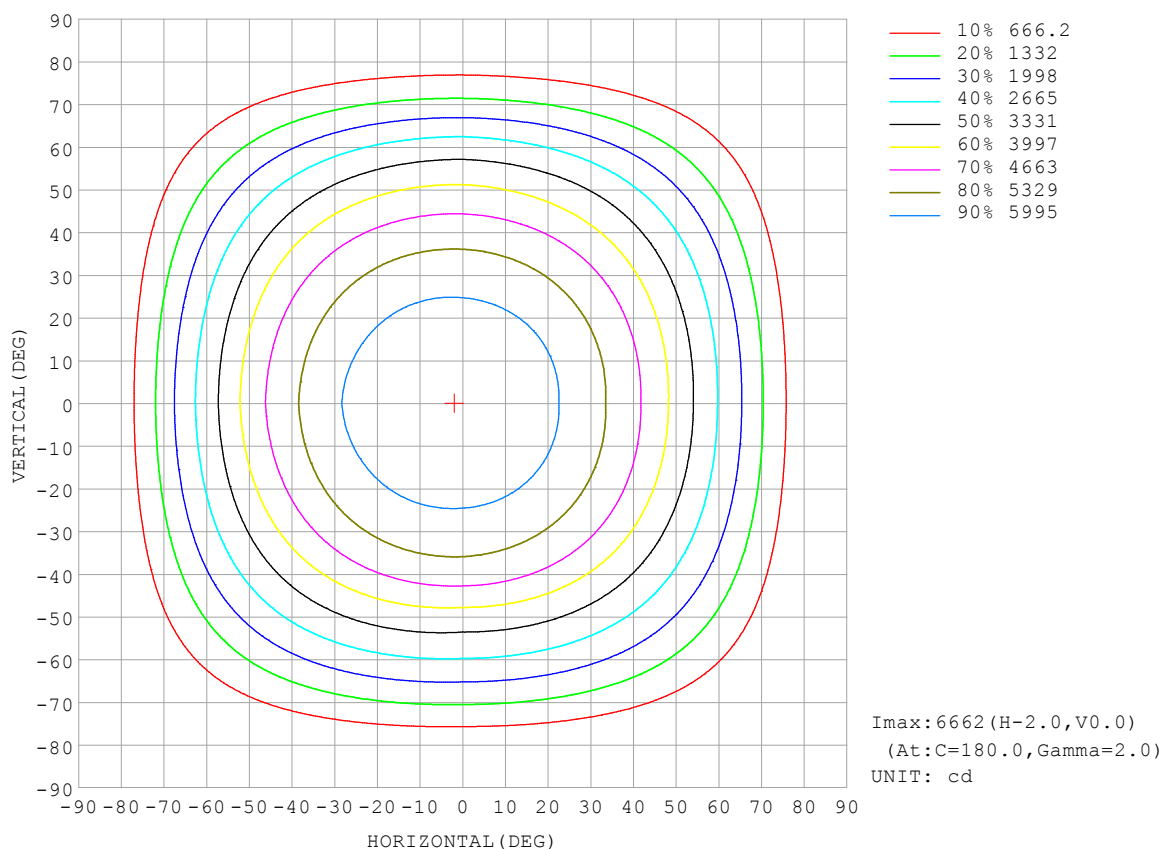
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	58	50	68	57	50	66	56	50	43
1.00	78	67	60	76	66	59	74	68	59	52
1.25	85	75	68	83	74	67	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	96	88	82	95	87	82	91	85	80	72
2.50	100	93	87	98	92	86	94	89	84	76
3.00	104	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
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: 2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

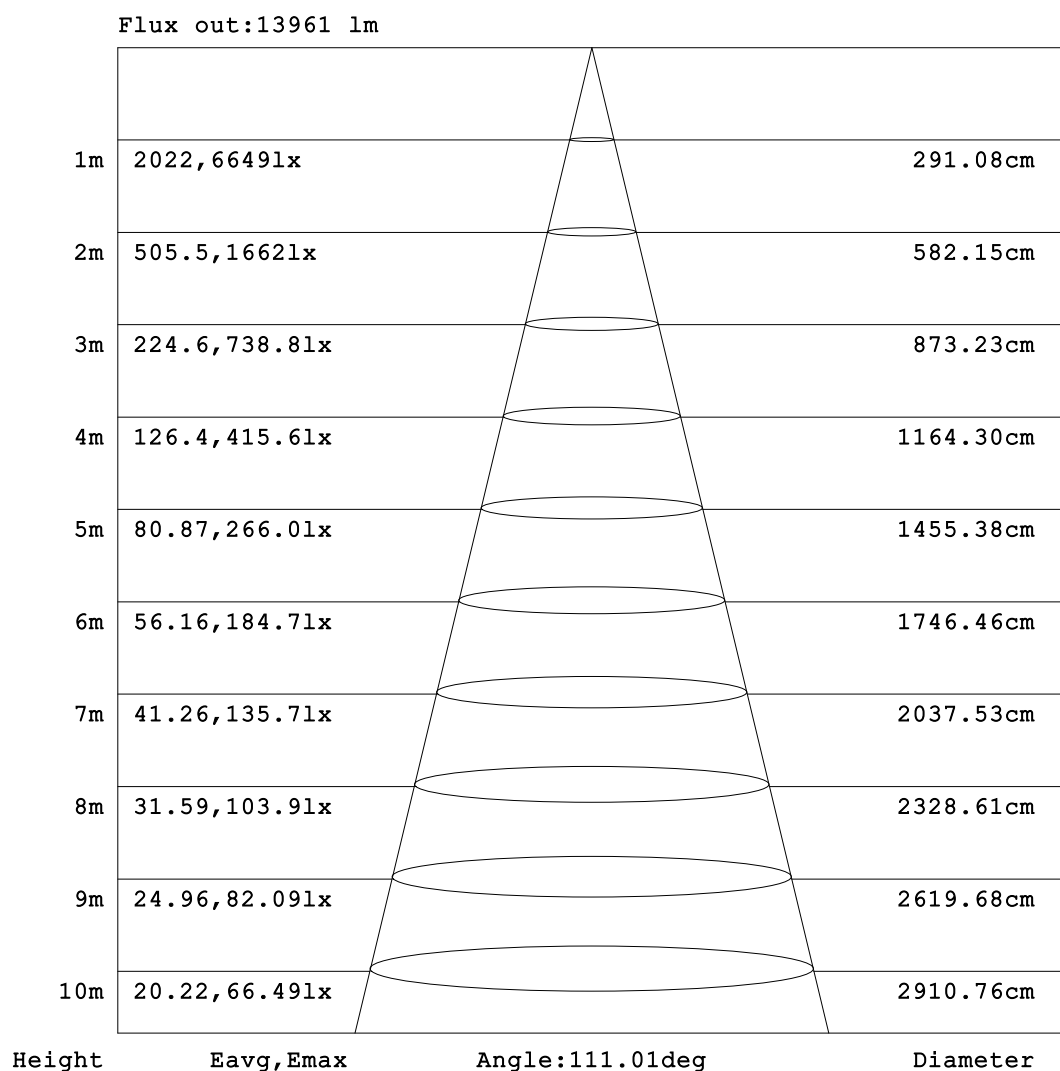


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



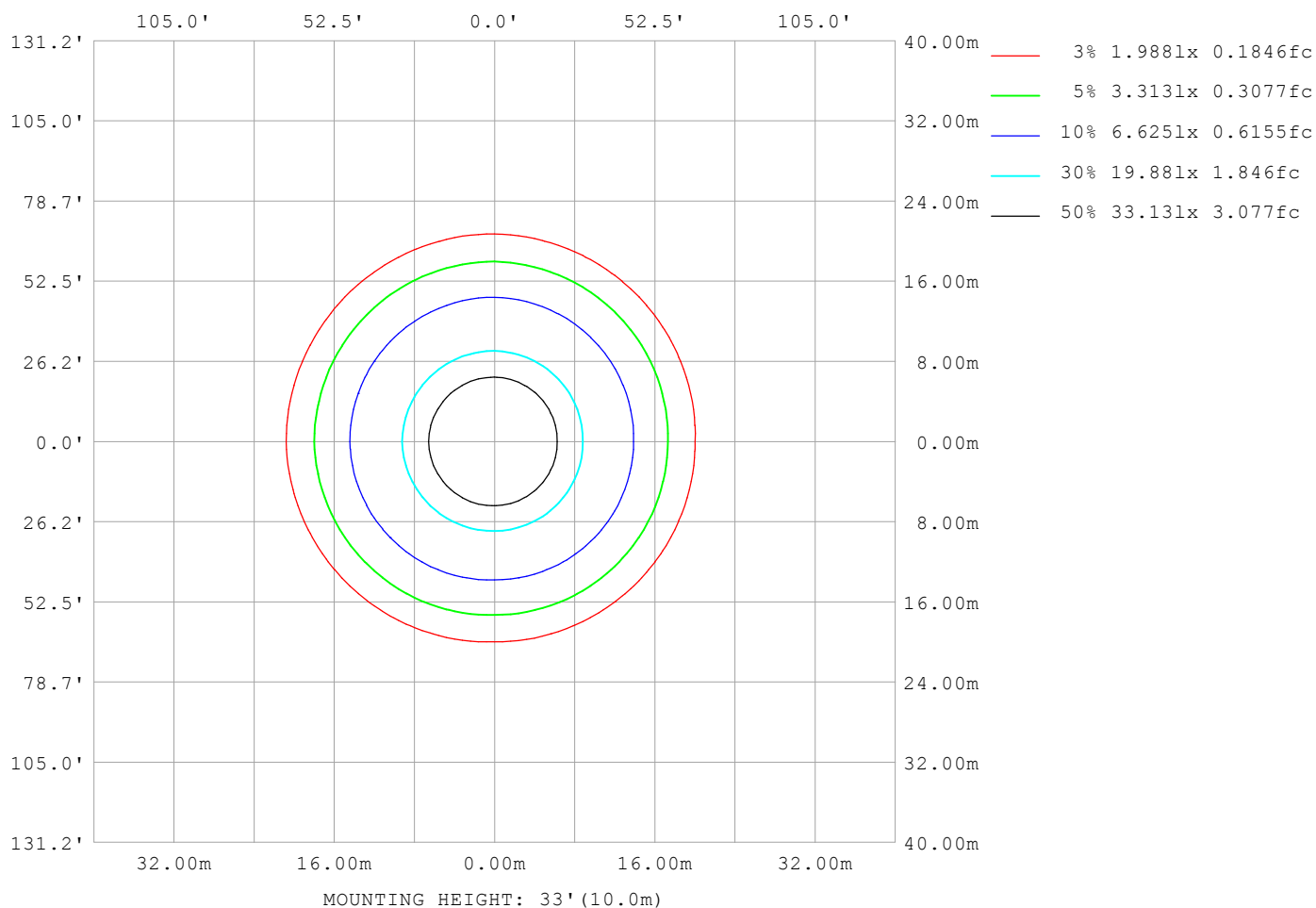
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-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:2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-BK	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 027
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

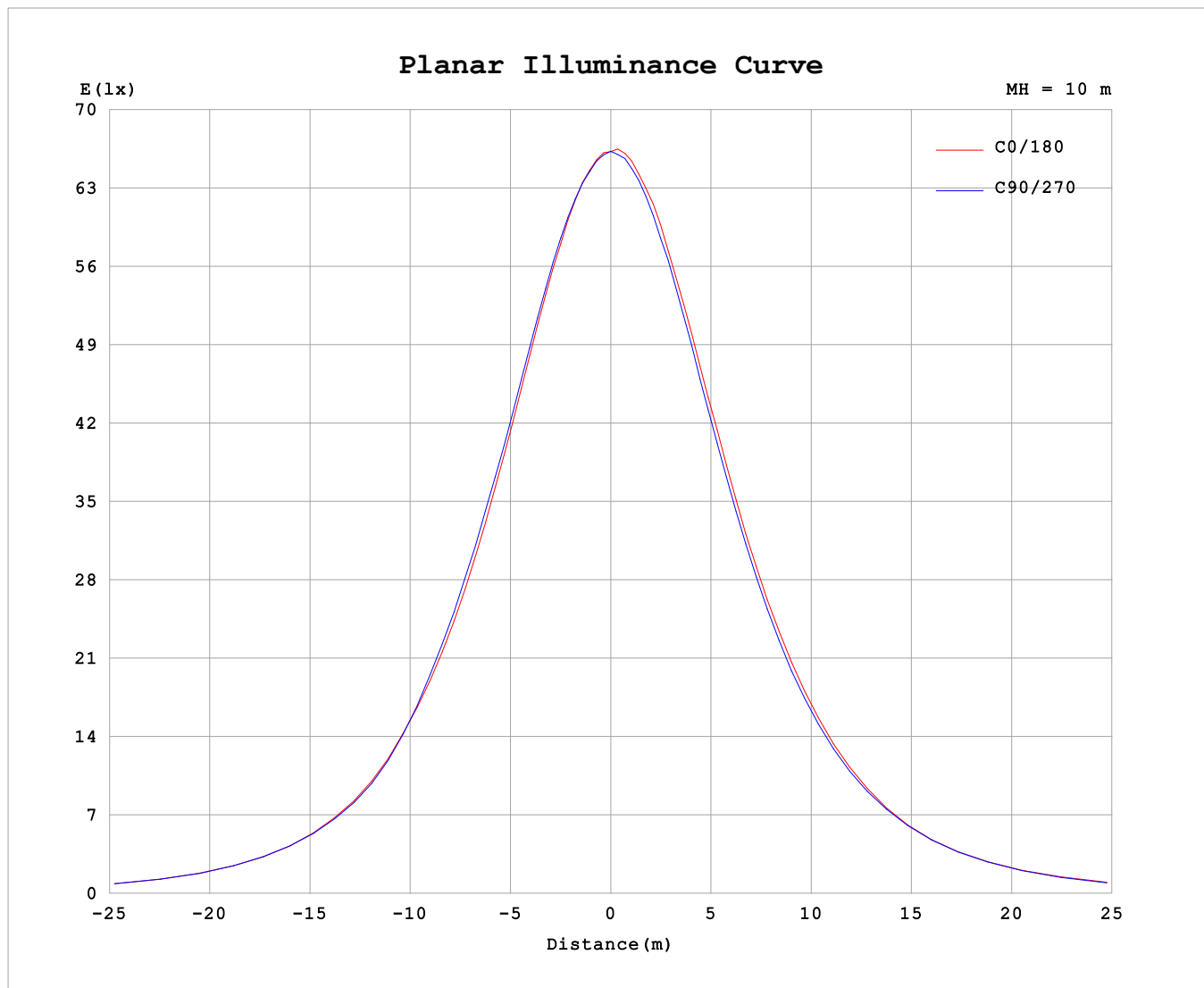
AvgL	cd/m2
L_0~180 (65) av	14447
L_0~180 (75) av	8930
L_0~180 (85) av	1464
L_90~270 (65) av	14223
L_90~270 (75) av	8745
L_90~270 (85) av	1254
L_45 (65) av	14369
L_45 (75) av	8868
L_45 (85) av	1335

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-14

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: 2026-03-14

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:119.97V I:1.2714A P:143.65W PF:0.9418 Freq:50.00Hz Lamp Flux:18270.5x1 lm		
NAME: ASD-FLD-CORE-150YK-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	6627	6627	6627	6627														
5	6569	6552	6651	6581														
10	6487	6496	6593	6515														
15	6290	6346	6460	6362														
20	6126	6198	6343	6210														
25	5811	5925	6097	5942														
30	5577	5716	5897	5728														
35	5130	5322	5512	5333														
40	4811	4965	5217	5035														
45	4262	4237	4686	4512														
50	3786	3711	4251	4122														
55	3105	3078	3496	3472														
60	2631	2636	3000	2979														
65	1922	1904	2216	2141														
70	1383	1406	1632	1513														
75	638	637	783	775														
80	281	248	346	332														
85	24.9	17.4	22.9	28.9														
90	2.31	1.36	2.26	0.84														
95	2.60	2.26	1.41	0.90														
100	3.50	3.14	1.78	1.41														
105	5.09	4.78	2.63	2.43														
110	6.05	6.02	3.25	3.22														
115	7.83	7.80	4.52	4.49														
120	8.96	8.90	5.54	5.53														
125	10.5	10.4	7.21	7.28														
130	11.5	11.4	8.31	8.36														
135	13.0	12.7	9.89	10.1														
140	13.7	13.4	10.9	11.1														
145	14.7	14.4	12.3	12.5														
150	15.3	15.0	13.2	13.4														
155	16.1	15.8	14.5	14.5														
160	16.5	16.3	15.1	15.3														
165	17.3	17.0	16.1	16.2														
170	17.5	17.2	16.6	16.6														
175	17.4	17.3	17.2	17.1														
180	17.4	17.4	17.4	17.3														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2026-03-14

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: