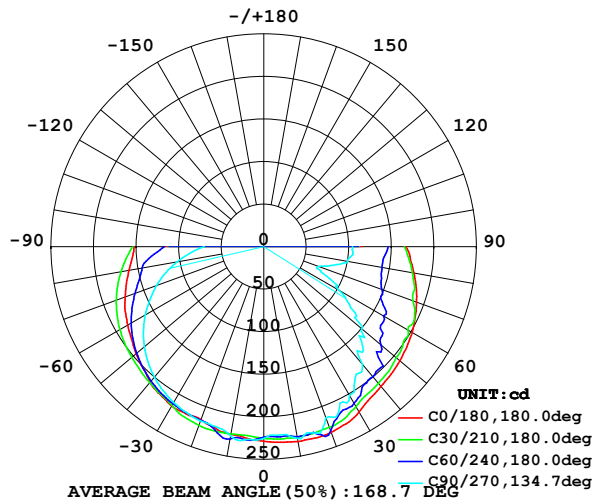


LUMINAIRE PHOTOMETRIC TEST REPORT

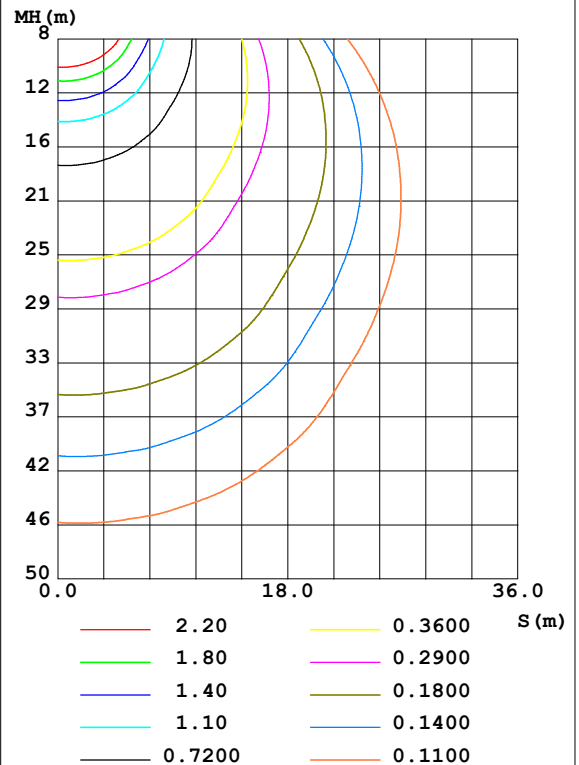
NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 71.57 lm/W
MODEL ASD-LVF23V-16D15CC-NK		I _{max} (cd)	236.2	S/MH (C0/180)	1.43	
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.41	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1089.9	η UP, DN (C0-180)	0.0, 48.9	
NOMINAL FLUX (lm)	1089.93	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 10.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	232.5	225.8	229.0	224.0	223.8	226.1	225.9	220.5	0- 10	21.50	21.50	1.97,1.97
20	232.2	229.9	214.1	219.8	216.1	220.4	217.7	217.4	10- 20	63.15	84.65	7.77,7.77
30	224.1	220.8	201.7	216.5	216.3	213.4	211.5	211.6	20- 30	100.2	184.9	17,17
40	214.4	207.4	180.4	196.8	208.1	208.3	200.1	201.4	30- 40	130.2	315.1	28.9,28.9
50	208.8	198.8	150.6	175.7	195.9	200.3	183.2	187.7	40- 50	150.8	465.9	42.7,42.7
60	201.5	182.5	101.2	152.6	184.8	189.4	160.8	171.0	50- 60	159.7	625.6	57.4,57.4
70	191.2	172.7	68.95	138.5	173.3	175.5	134.1	153.1	60- 70	158.9	784.5	72,72
80	179.2	163.0	100.1	133.4	160.9	160.0	103.3	135.1	70- 80	156.1	940.6	86.3,86.3
90	166.7	156.9	104.4	137.6	152.5	141.7	70.19	108.9	80- 90	149.4	1090	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

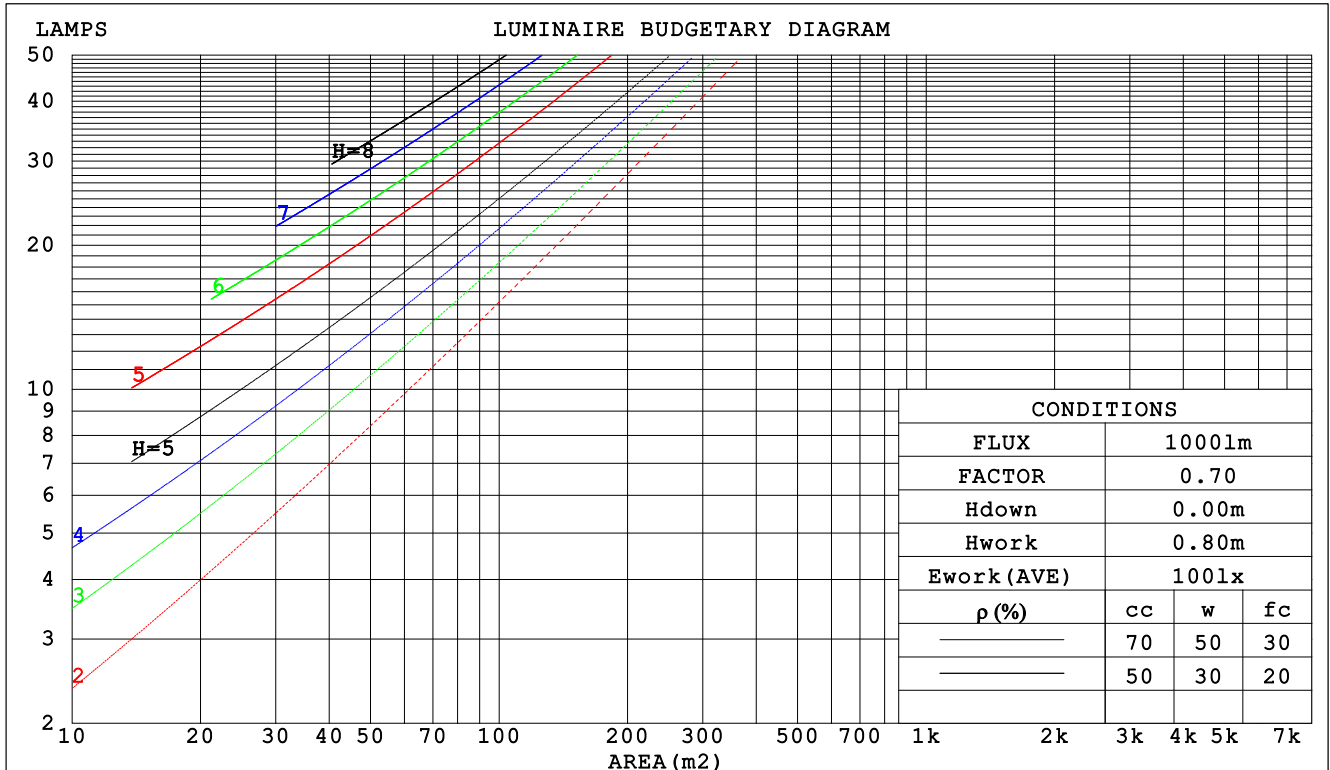
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	.95	.88	.82	.93	.87	.81	.88	.83	.78	.84	.80	.76	.80	.77	.73	.71
2.0	.80	.71	.63	.78	.69	.62	.74	.67	.60	.70	.64	.59	.67	.62	.57	.55
3.0	.68	.58	.50	.67	.57	.49	.63	.55	.48	.60	.53	.47	.58	.52	.46	.44
4.0	.60	.49	.41	.58	.48	.41	.56	.47	.40	.53	.45	.39	.51	.44	.39	.36
5.0	.53	.42	.34	.52	.42	.34	.49	.40	.34	.47	.39	.33	.45	.38	.33	.30
6.0	.47	.37	.29	.46	.36	.29	.44	.35	.29	.42	.35	.29	.41	.34	.28	.26
7.0	.42	.33	.26	.42	.32	.25	.40	.31	.25	.38	.31	.25	.37	.30	.25	.23
8.0	.39	.29	.23	.38	.29	.22	.36	.28	.22	.35	.28	.22	.34	.27	.22	.20
9.0	.35	.26	.20	.35	.26	.20	.33	.25	.20	.32	.25	.20	.31	.24	.20	.18
10.0	.32	.24	.18	.32	.24	.18	.31	.23	.18	.30	.23	.18	.29	.22	.18	.16



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2026-07-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	.478	.272	.086	.470	.268	.085	.456	.262	.084	.443	.256	.082	.431	.250	.081		
2.0	.394	.216	.066	.387	.213	.066	.374	.208	.065	.363	.203	.064	.352	.199	.063		
3.0	.340	.181	.054	.334	.179	.054	.323	.175	.053	.312	.171	.053	.303	.168	.052		
4.0	.300	.156	.046	.295	.154	.046	.285	.151	.045	.276	.148	.045	.267	.145	.044		
5.0	.269	.137	.040	.264	.136	.040	.256	.133	.039	.247	.131	.039	.240	.128	.039		
6.0	.244	.122	.035	.240	.121	.035	.232	.119	.035	.225	.117	.034	.218	.115	.034		
7.0	.223	.110	.031	.219	.109	.031	.212	.107	.031	.206	.106	.031	.200	.104	.031		
8.0	.205	.100	.028	.202	.100	.028	.196	.098	.028	.190	.096	.028	.185	.095	.028		
9.0	.190	.092	.026	.188	.091	.026	.182	.090	.026	.177	.089	.025	.172	.087	.025		
10.0	.177	.085	.024	.175	.084	.024	.170	.083	.023	.165	.082	.023	.161	.081	.023		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.192	.155	.121	.164	.133	.104	.112	.091	.072	.065	.053	.042	.021	.017	.014		
2.0	.186	.131	.086	.159	.113	.074	.109	.078	.052	.063	.046	.030	.020	.015	.010		
3.0	.178	.115	.064	.153	.099	.056	.105	.069	.039	.060	.040	.023	.019	.013	.008		
4.0	.169	.102	.051	.145	.088	.044	.100	.061	.031	.058	.036	.018	.019	.012	.006		
5.0	.161	.092	.041	.138	.080	.036	.095	.056	.025	.055	.033	.015	.018	.011	.005		
6.0	.152	.084	.035	.131	.073	.030	.090	.051	.021	.052	.030	.013	.017	.010	.004		
7.0	.145	.077	.030	.124	.067	.026	.086	.047	.018	.050	.028	.011	.016	.009	.004		
8.0	.137	.071	.026	.118	.062	.023	.082	.043	.016	.048	.026	.010	.015	.008	.003		
9.0	.130	.066	.023	.112	.058	.020	.078	.040	.014	.045	.024	.009	.015	.008	.003		
10.0	.124	.062	.021	.107	.054	.018	.074	.038	.013	.043	.022	.008	.014	.007	.003		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: ASD-LVF23V-16D15CC-NK					TYPE:LED					WEIGHT:				
SPEC.:5000K					DIM.:					SERIAL No.:1				
MFR.: ASD Lighting corp					SUR.:					PROTECTION 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					17.7	19.5	18.0	19.7	20.0	15.6	17.3	15.8	17.6	17.8
3H					20.8	22.5	21.1	22.7	23.0	17.5	19.2	17.9	19.5	19.7
4H					22.5	24.1	22.8	24.4	24.7	18.9	20.5	19.2	20.7	21.0
6H					24.4	25.9	24.8	26.2	26.5	20.7	22.3	21.1	22.5	22.8
8H					25.5	26.9	25.8	27.2	27.6	21.8	23.3	22.2	23.6	23.9
12H					26.7	28.1	27.0	28.4	28.7	23.2	24.6	23.5	24.9	25.2
4H 2H					18.6	20.2	18.9	20.5	20.7	17.1	18.7	17.5	19.0	19.3
3H					21.9	23.3	22.3	23.6	24.0	19.5	21.0	19.9	21.3	21.6
4H					23.8	25.1	24.2	25.5	25.8	21.0	22.4	21.4	22.7	23.0
6H					25.9	27.1	26.3	27.5	27.9	22.9	24.1	23.3	24.5	24.9
8H					27.1	28.2	27.5	28.6	29.0	24.1	25.2	24.5	25.6	26.0
12H					28.4	29.5	28.9	29.9	30.3	25.4	26.5	25.8	26.9	27.3
8H 4H					24.4	25.6	24.8	26.0	26.4	22.4	23.5	22.8	23.9	24.3
6H					26.9	27.9	27.3	28.3	28.7	24.5	25.6	25.0	26.0	26.4
8H					28.3	29.2	28.7	29.6	30.1	25.8	26.8	26.3	27.2	27.7
12H					29.9	30.7	30.3	31.1	31.6	27.4	28.2	27.9	28.6	29.1
12H 4H					24.5	25.6	25.0	26.0	26.5	22.8	23.9	23.2	24.3	24.7
6H					27.1	28.1	27.6	28.5	28.9	25.1	26.1	25.6	26.5	27.0
8H					28.7	29.5	29.1	29.9	30.4	26.6	27.4	27.1	27.8	28.3
Variations with the observer position at spacings:														
S = 1.0H					+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H					+ 0.2 / - 0.3					+ 0.3 / - 0.3				
2.0H					+ 0.3 / - 0.4					+ 0.4 / - 0.5				

CIE Pub.117 Corrected 1090 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.3)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

388.61 lm

%lum = 35.7%

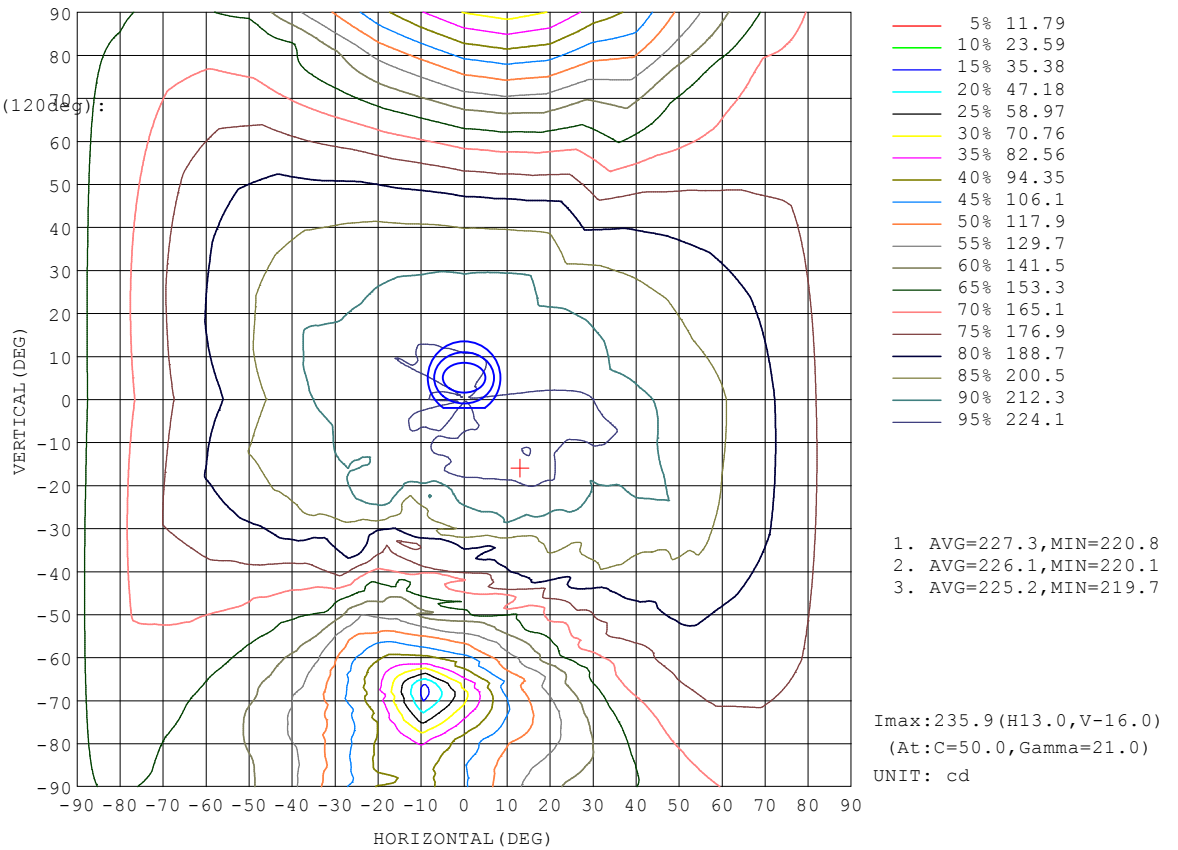
%lamp = 35.7%

Conical surface Flux(120deg):

625.56 lm

%lum = 57.4%

%lamp = 57.4%

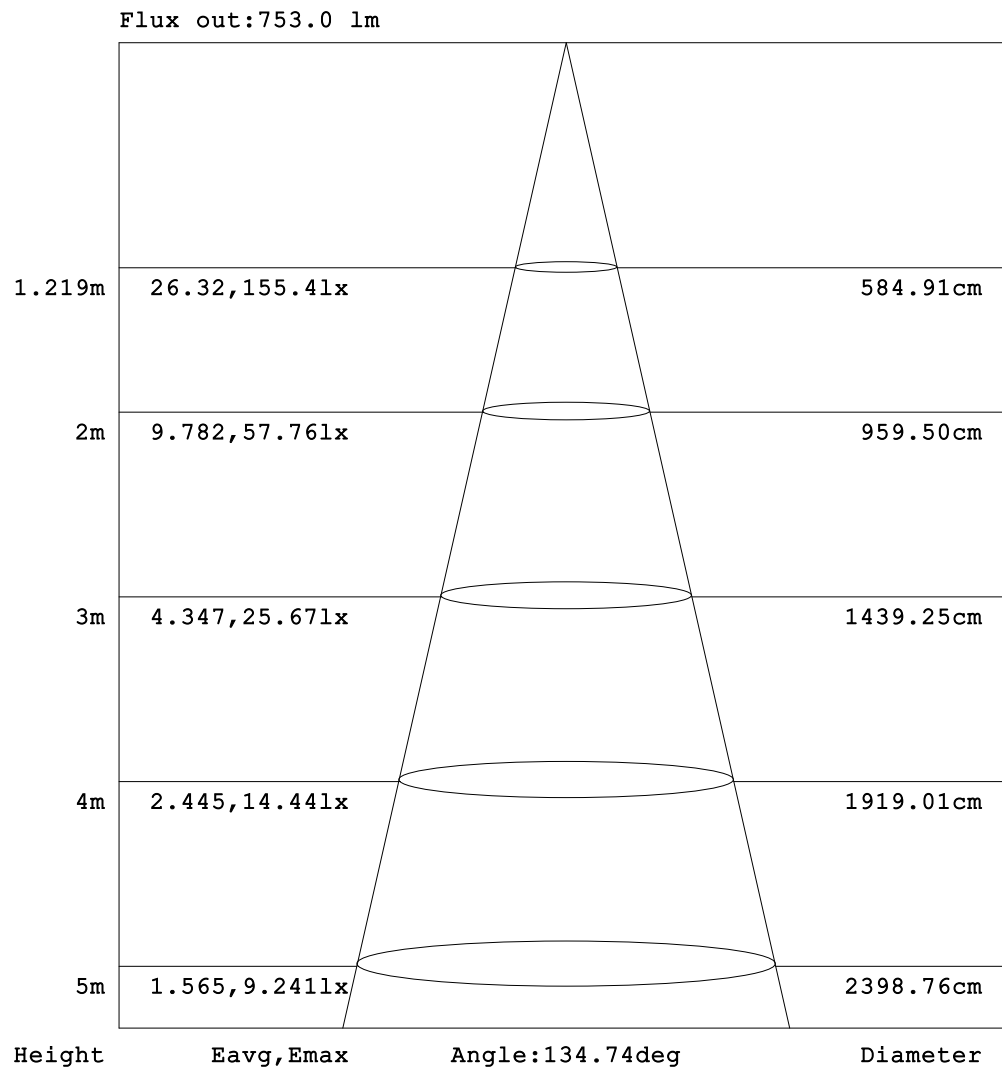


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

AAI Figure

NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



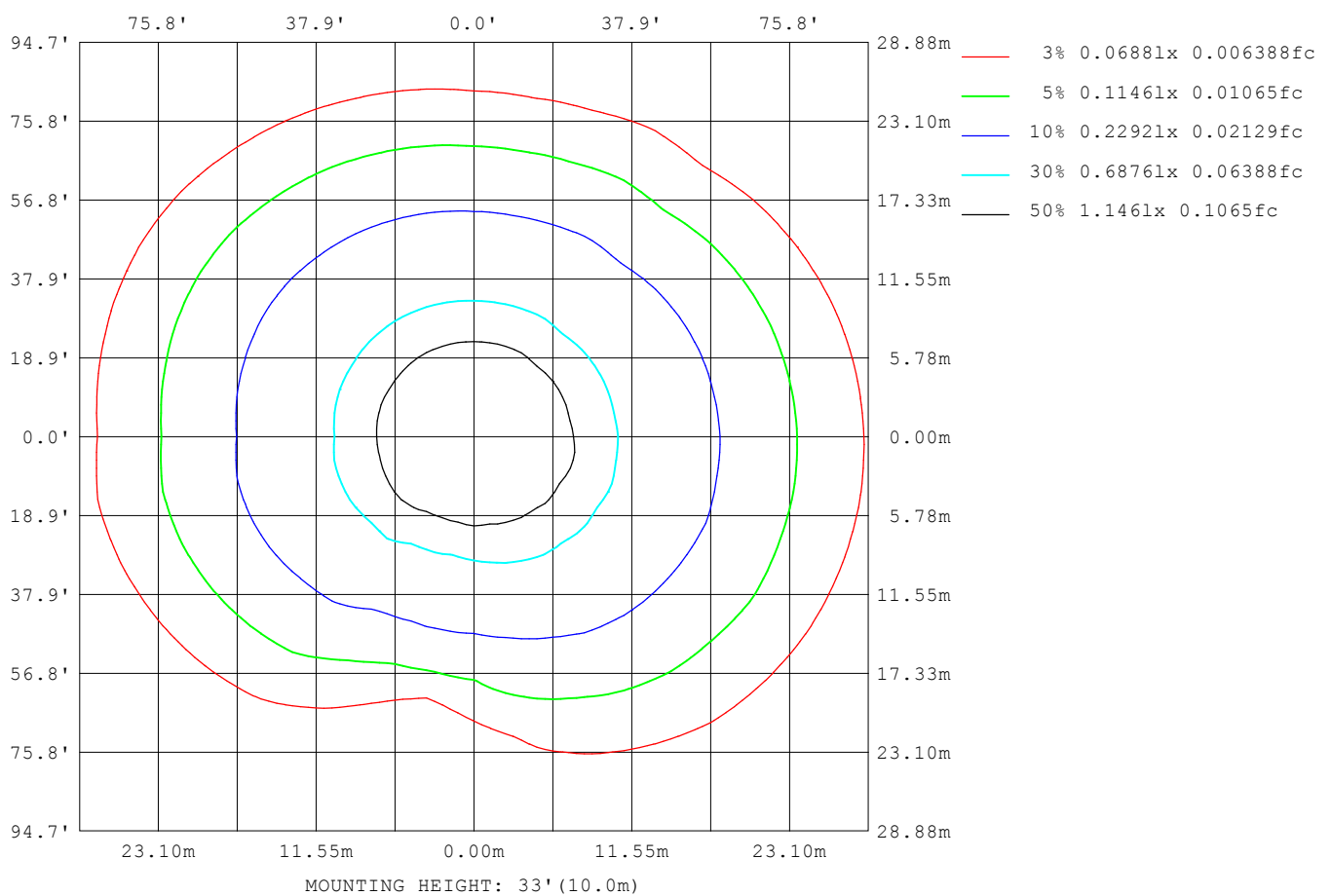
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: ASD-LVF23V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

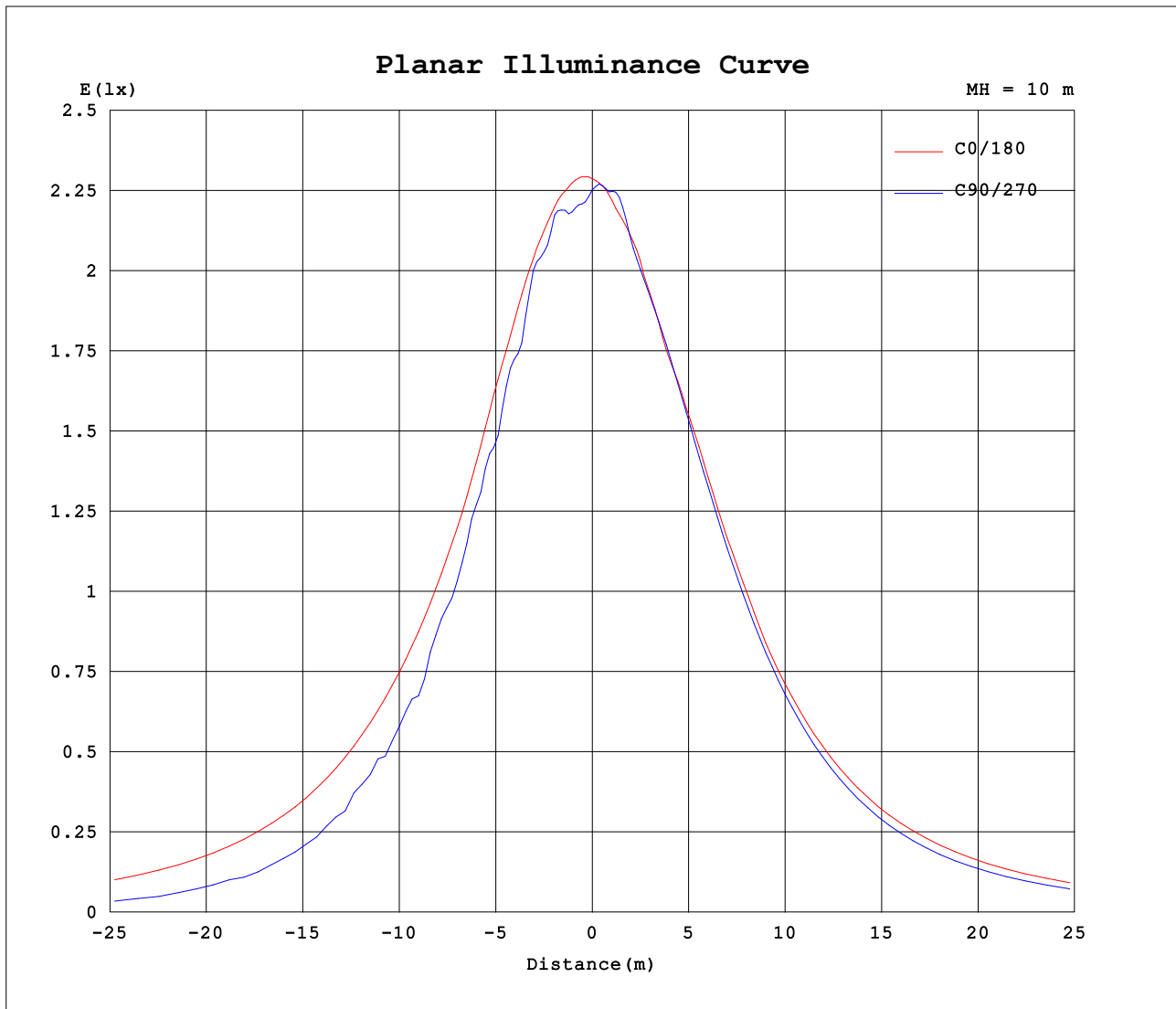
AvgL	cd/m2
L_0~180 (65) av	4449
L_0~180 (75) av	6813
L_0~180 (85) av	18831
L_90~270 (65) av	2712
L_90~270 (75) av	3947
L_90~270 (85) av	11027
L_45 (65) av	3946
L_45 (75) av	5949
L_45 (85) av	16452

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2026-07-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 10.000m [K=1.0000]
 Remarks:

