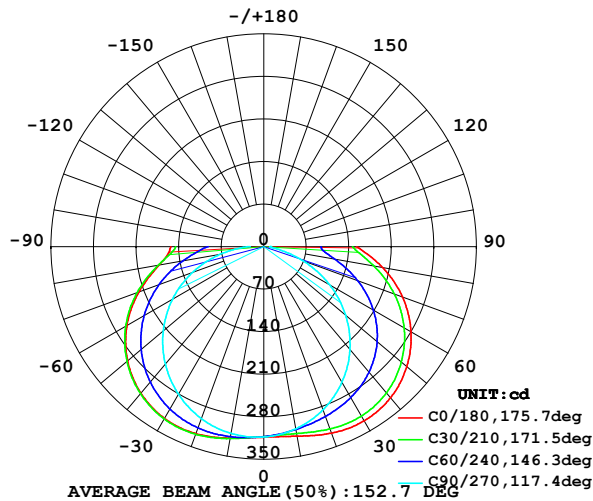


LUMINAIRE PHOTOMETRIC TEST REPORT

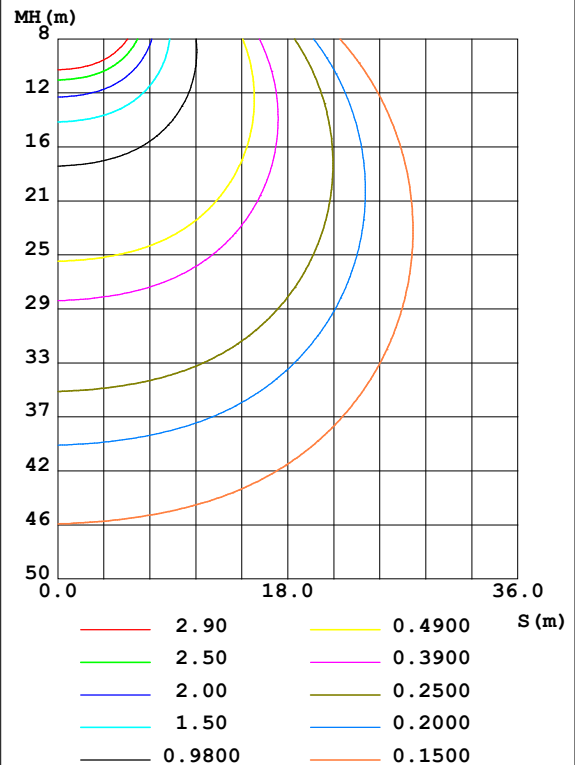
NAME: ASD-LVF28V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 90.43 lm/W
MODEL ASD-LVF28V-16D15CC-NK		Imax(cd)	331.0	S/MH(C0/180)	1.56	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.33	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1365.8	η UP,DN(C0-180)	0.0,48.2	
NOMINAL FLUX(lm)	1365.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.8	
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: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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
5	313.7	309.8	310.0	315.9	315.6	315.7	313.8	311.8	0- 5	7.490	7.490	0.55,0.55
10	316.9	308.7	304.2	317.3	319.7	319.5	311.9	309.2	5- 10	22.42	29.91	2.19,2.19
15	321.7	308.8	296.1	317.5	324.2	322.5	307.8	306.9	10- 15	37.18	67.09	4.91,4.91
20	326.5	309.2	285.6	315.8	327.2	324.1	301.1	304.6	15- 20	51.51	118.6	8.68,8.68
25	329.9	308.9	272.8	312.0	328.4	323.5	292.0	301.8	20- 25	65.08	183.7	13.4,13.4
30	330.9	307.0	257.5	305.8	326.6	320.3	280.7	297.9	25- 30	77.46	261.1	19.1,19.1
35	329.1	302.7	240.3	297.0	322.0	314.4	267.4	292.4	30- 35	88.23	349.4	25.6,25.6
40	324.5	295.9	220.7	285.7	314.8	305.9	252.1	284.9	35- 40	97.05	446.4	32.7,32.7
45	317.2	286.5	199.3	271.7	304.9	295.1	234.9	275.1	40- 45	103.6	550.0	40.3,40.3
50	307.1	274.4	176.0	255.1	292.5	281.9	216.0	263.3	45- 50	107.6	657.6	48.2,48.2
55	294.7	259.6	151.1	236.0	277.5	266.4	195.6	249.2	50- 55	109.0	766.6	56.1,56.1
60	279.7	242.7	124.6	214.5	260.1	248.6	173.6	232.9	55- 60	107.6	874.3	64,64
65	262.5	223.7	97.05	190.8	240.4	228.7	149.9	214.6	60- 65	103.5	977.8	71.6,71.6
70	243.0	202.5	69.14	165.5	218.8	206.8	125.0	194.6	65- 70	96.77	1075	78.7,78.7
75	221.6	180.0	42.48	140.4	196.2	183.4	98.93	172.6	70- 75	87.81	1162	85.1,85.1
80	198.6	157.1	20.63	118.7	175.0	159.5	72.31	149.3	75- 80	77.41	1240	90.8,90.8
85	174.8	136.7	10.52	107.0	159.3	137.9	45.89	125.5	80- 85	67.06	1307	95.7,95.7
90	153.1	125.7	11.26	105.7	152.7	124.2	22.63	97.82	85- 90	59.02	1366	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

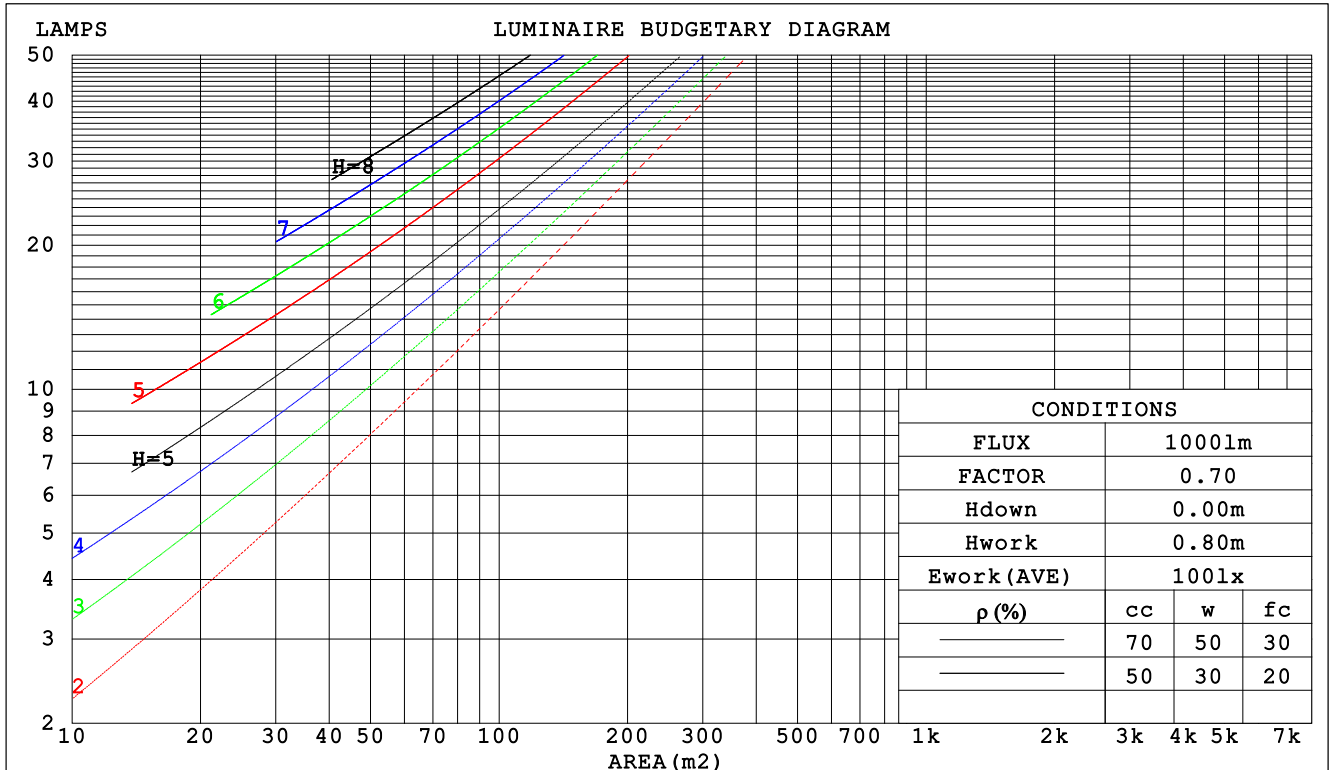
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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-LVF28V-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	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	1.00
1.0	.98	.92	.87	.96	.90	.85	.91	.87	.83	.87	.83	.80	.83	.80	.78	.75
2.0	.83	.75	.68	.81	.73	.67	.77	.71	.65	.74	.68	.63	.71	.66	.62	.59
3.0	.72	.62	.54	.70	.61	.54	.67	.59	.53	.64	.57	.52	.61	.56	.51	.48
4.0	.63	.53	.45	.61	.52	.44	.59	.50	.44	.56	.49	.43	.54	.48	.42	.40
5.0	.55	.45	.38	.54	.45	.38	.52	.44	.37	.50	.42	.37	.48	.41	.36	.34
6.0	.50	.40	.32	.49	.39	.32	.47	.38	.32	.45	.37	.32	.43	.37	.31	.29
7.0	.45	.35	.28	.44	.35	.28	.42	.34	.28	.41	.33	.28	.39	.33	.27	.25
8.0	.41	.31	.25	.40	.31	.25	.38	.30	.25	.37	.30	.24	.36	.29	.24	.22
9.0	.37	.28	.22	.36	.28	.22	.35	.27	.22	.34	.27	.22	.33	.27	.22	.20
10.0	.34	.26	.20	.34	.25	.20	.33	.25	.20	.32	.25	.20	.31	.24	.20	.18



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

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 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-LVF28V-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	.421	.239	.076	.414	.236	.075	.400	.229	.073	.387	.223	.072	.375	.218	.070		
2.0	.361	.198	.061	.355	.195	.060	.343	.191	.059	.331	.186	.058	.321	.181	.057		
3.0	.319	.170	.051	.313	.168	.050	.302	.164	.050	.292	.160	.049	.283	.157	.048		
4.0	.286	.148	.044	.281	.147	.043	.271	.144	.043	.262	.141	.042	.253	.138	.042		
5.0	.258	.132	.038	.254	.130	.038	.245	.128	.038	.237	.125	.037	.230	.123	.037		
6.0	.236	.118	.034	.232	.117	.034	.224	.115	.033	.217	.113	.033	.210	.111	.033		
7.0	.217	.107	.030	.213	.106	.030	.206	.104	.030	.200	.103	.030	.194	.101	.030		
8.0	.201	.098	.028	.197	.097	.027	.191	.096	.027	.186	.094	.027	.180	.093	.027		
9.0	.186	.090	.025	.184	.089	.025	.178	.088	.025	.173	.087	.025	.168	.085	.025		
10.0	.174	.084	.023	.172	.083	.023	.167	.082	.023	.162	.080	.023	.158	.079	.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	.188	.155	.126	.161	.133	.108	.110	.092	.075	.063	.053	.043	.020	.017	.014	
2.0	.182	.132	.090	.155	.113	.077	.107	.078	.054	.061	.046	.032	.020	.015	.010	
3.0	.174	.115	.067	.149	.099	.058	.102	.069	.041	.059	.040	.024	.019	.013	.008	
4.0	.166	.102	.053	.142	.088	.046	.098	.061	.032	.057	.036	.019	.018	.012	.006	
5.0	.158	.092	.043	.135	.079	.037	.093	.055	.026	.054	.033	.016	.017	.011	.005	
6.0	.150	.083	.036	.129	.072	.031	.089	.051	.022	.052	.030	.013	.017	.010	.004	
7.0	.142	.077	.031	.122	.066	.027	.085	.047	.019	.049	.027	.011	.016	.009	.004	
8.0	.135	.071	.027	.116	.061	.023	.080	.043	.017	.047	.025	.010	.015	.008	.003	
9.0	.128	.066	.024	.111	.057	.021	.077	.040	.015	.045	.024	.009	.014	.008	.003	
10.0	.122	.062	.021	.105	.053	.019	.073	.038	.013	.043	.022	.008	.014	.007	.003	

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

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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-LVF28V-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					19.2	20.9	19.5	21.2	21.4	16.4	18.1	16.6	18.3	18.5
3H					22.0	23.6	22.3	23.8	24.1	17.8	19.4	18.1	19.6	19.9
4H					23.4	24.9	23.7	25.2	25.5	18.3	19.8	18.6	20.1	20.3
6H					25.0	26.4	25.3	26.7	27.0	18.6	20.0	18.9	20.3	20.6
8H					25.8	27.2	26.2	27.5	27.8	18.6	20.0	19.0	20.3	20.6
12H					26.8	28.1	27.1	28.4	28.7	18.7	20.0	19.0	20.4	20.7
4H 2H					19.9	21.5	20.2	21.7	22.0	18.0	19.5	18.3	19.8	20.0
3H					22.9	24.3	23.3	24.6	24.9	19.8	21.2	20.2	21.5	21.8
4H					24.6	25.8	24.9	26.2	26.5	20.6	21.8	21.0	22.2	22.5
6H					26.3	27.5	26.7	27.8	28.2	21.1	22.3	21.5	22.6	23.0
8H					27.3	28.4	27.7	28.8	29.2	21.3	22.4	21.7	22.8	23.2
12H					28.4	29.4	28.8	29.8	30.2	21.4	22.4	21.9	22.8	23.2
8H 4H					25.0	26.1	25.4	26.4	26.8	21.9	23.0	22.4	23.4	23.8
6H					27.1	28.0	27.5	28.4	28.9	23.0	23.9	23.5	24.4	24.8
8H					28.3	29.1	28.7	29.5	30.0	23.5	24.3	23.9	24.7	25.2
12H					29.6	30.4	30.1	30.8	31.3	23.9	24.6	24.3	25.0	25.5
12H 4H					25.0	26.0	25.5	26.4	26.8	22.3	23.4	22.8	23.7	24.2
6H					27.2	28.1	27.7	28.5	29.0	23.7	24.5	24.2	25.0	25.4
8H					28.5	29.3	29.0	29.7	30.2	24.4	25.1	24.9	25.6	26.1
Variations with the observer position at spacings:														
S = 1.0H					+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H					+ 0.3 / - 0.4					+ 0.3 / - 0.5				

CIE Pub.117 Corrected 1366 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.1)

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

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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-LVF28V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

550.01 lm

%lum = 40.3%

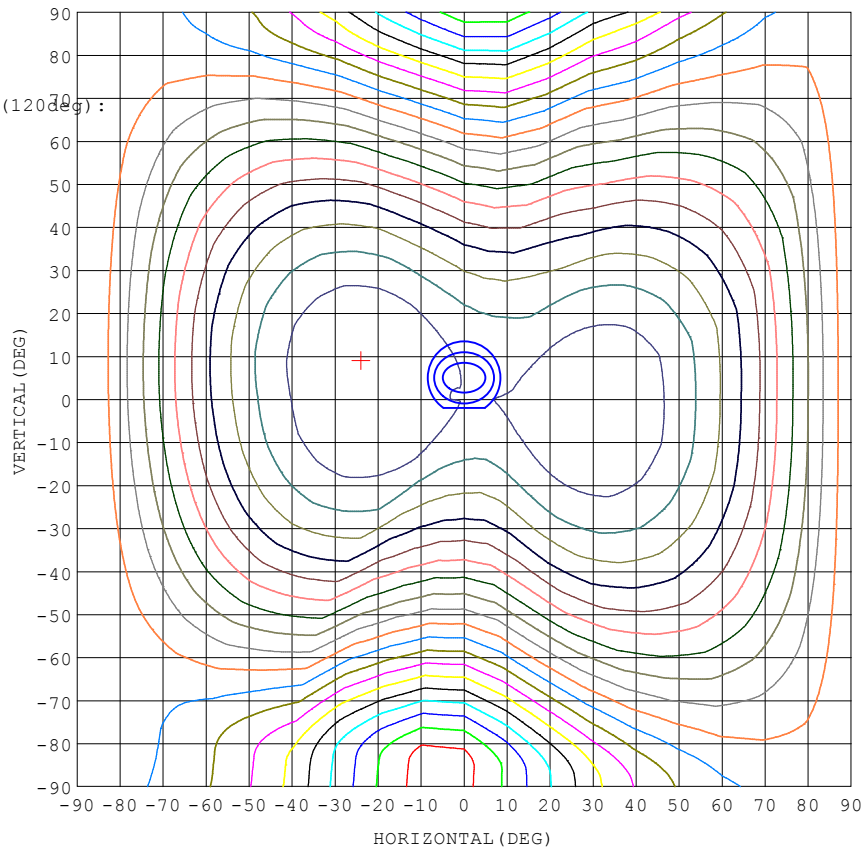
%lamp = 40.3%

Conical surface Flux(120deg):

874.26 lm

%lum = 64.0%

%lamp = 64.0%



1. AVG=313.8,MIN=310.3
2. AVG=313.6,MIN=308.8
3. AVG=313.6,MIN=307.6

Imax:330.9(H=24.0,V9.0)
(At:C=200.0,Gamma=25.5)

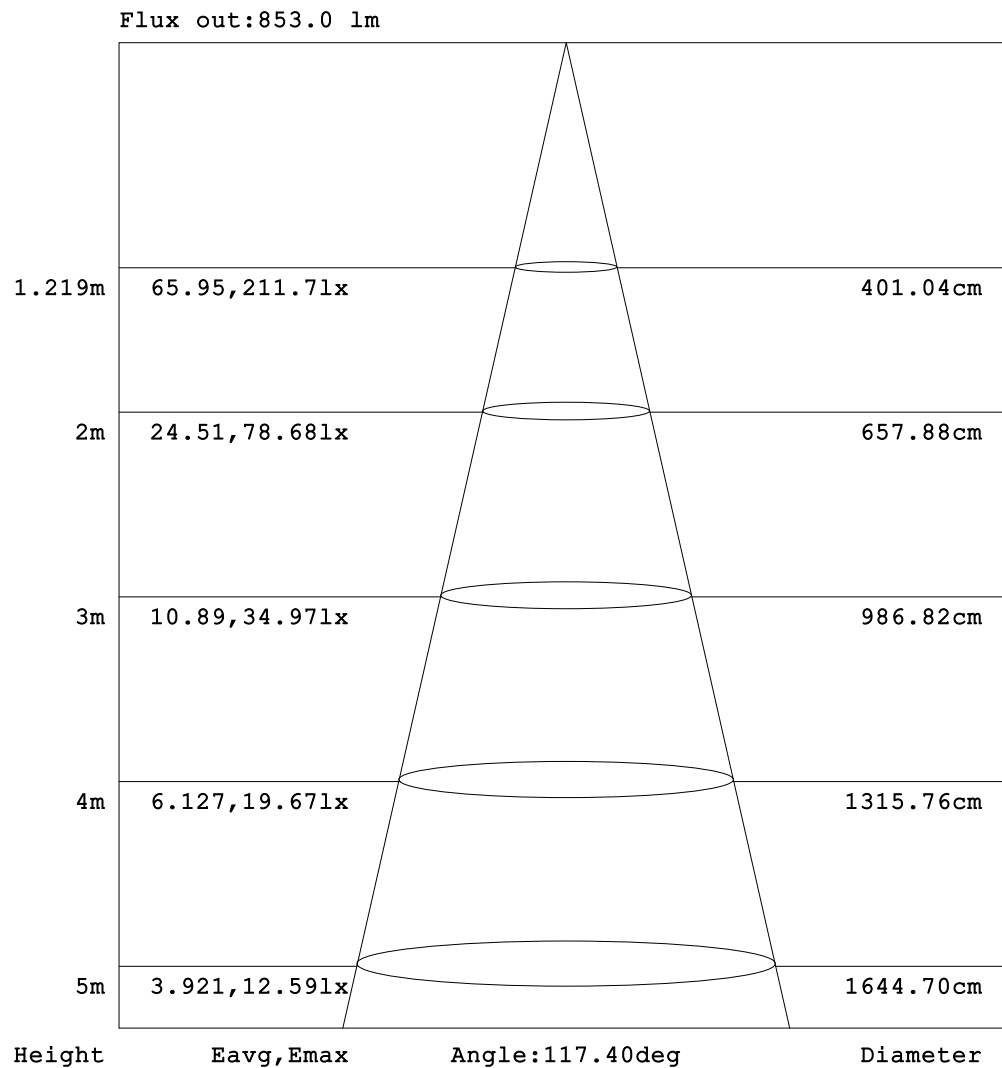
UNIT: cd

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

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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-LVF28V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



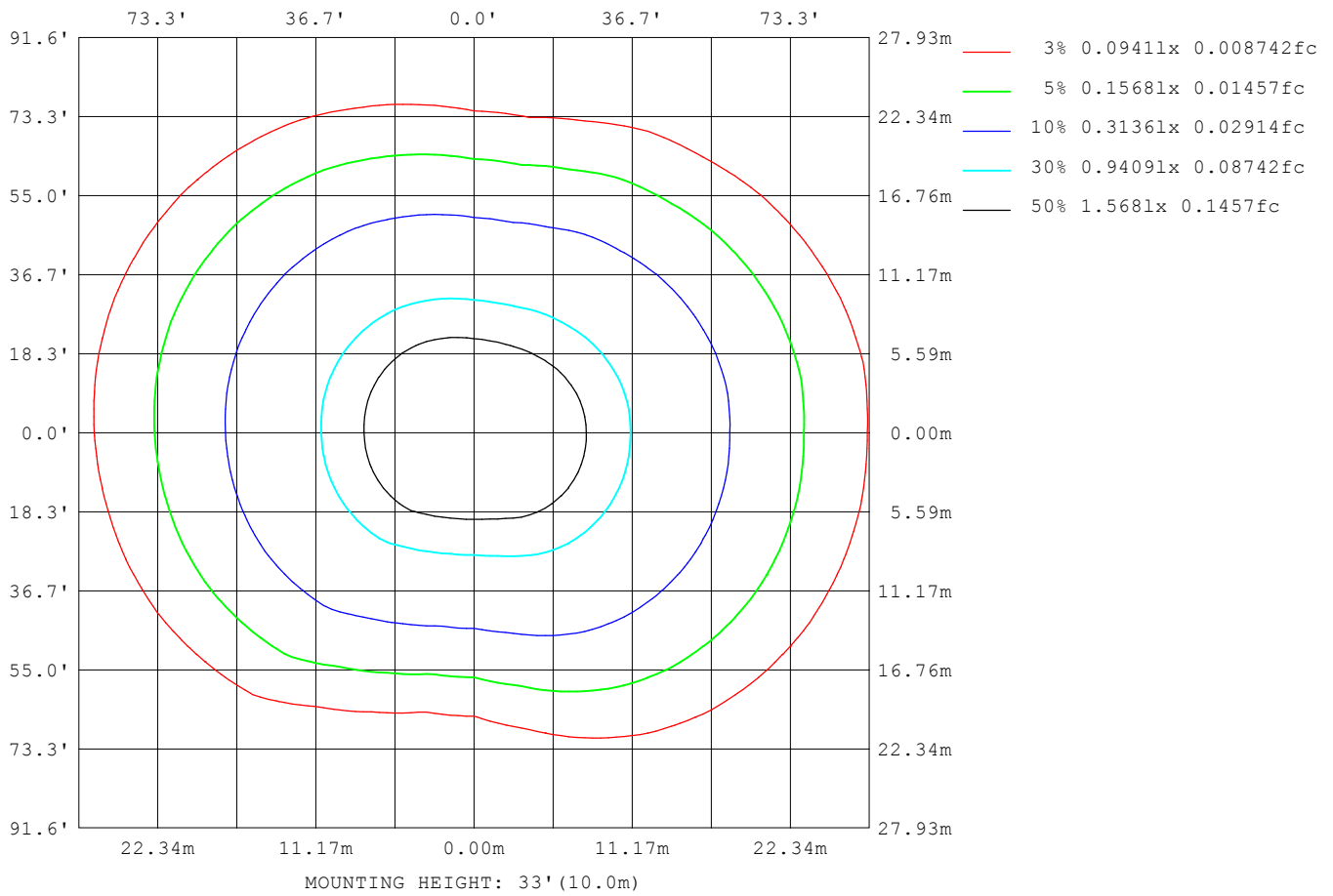
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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-LVF28V-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: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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-LVF28V-16D15CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:1
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

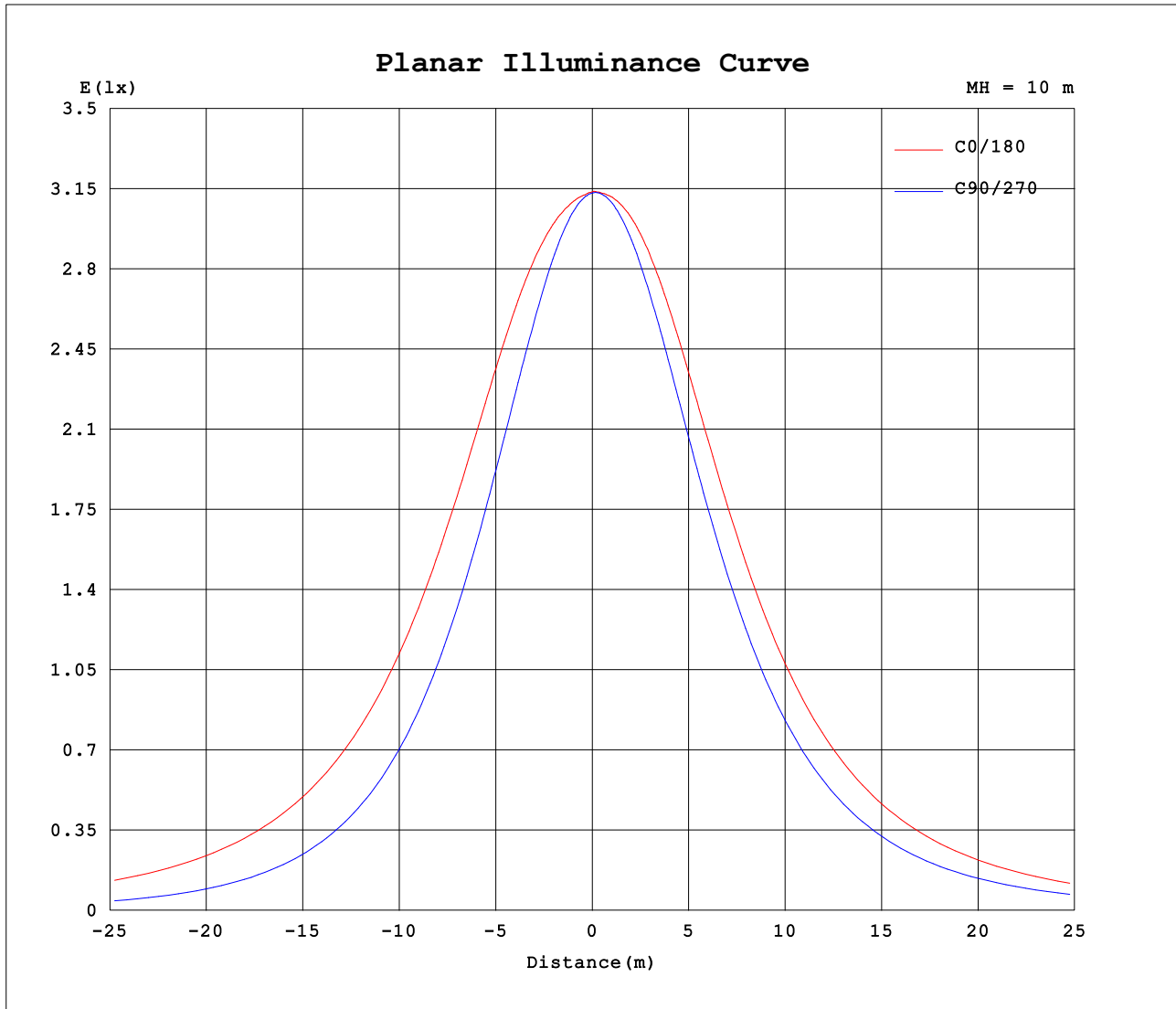
AvgL	cd/m2
L_0~180 (65) av	5950
L_0~180 (75) av	8071
L_0~180 (85) av	19168
L_90~270 (65) av	2922
L_90~270 (75) av	2732
L_90~270 (85) av	3236
L_45 (65) av	5090
L_45 (75) av	6559
L_45 (85) av	14609

Standard: GB/T 29293-2012

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

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2026-07-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 10.000m [K=1.0000]
 Remarks:

