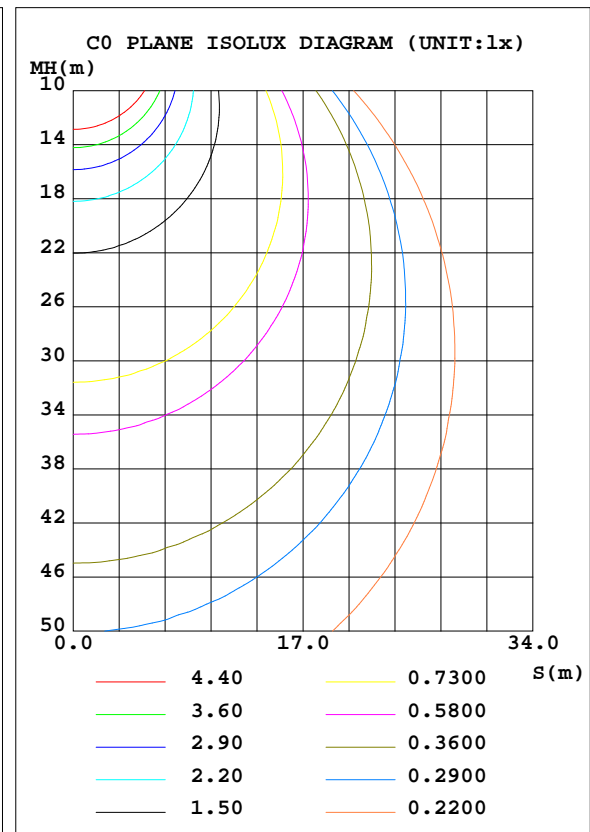
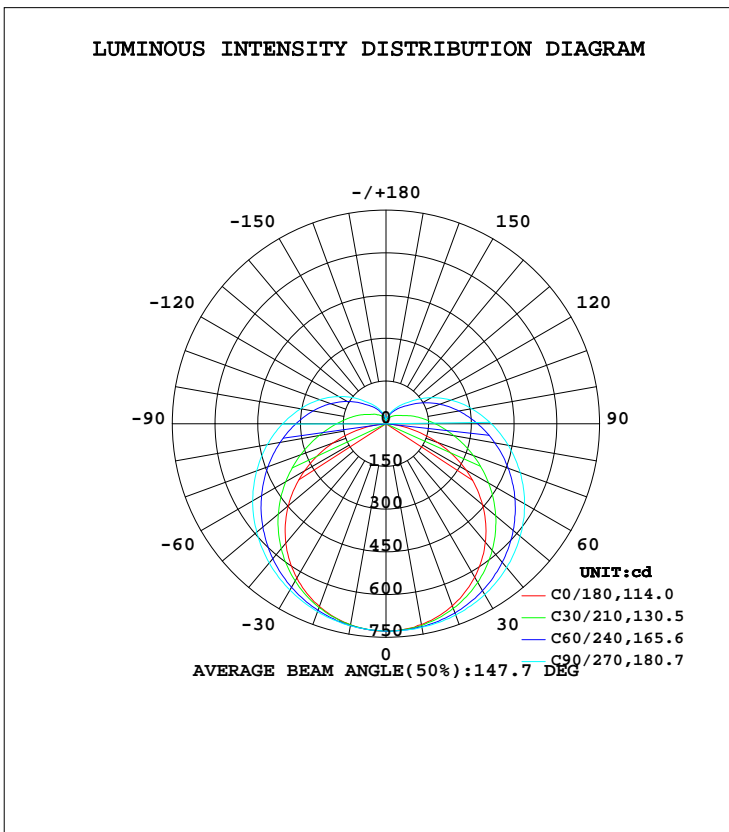


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.36 lm/W			
MODEL	ASD-LVF23-48D35CC-NK	I <sub>max</sub> (cd)	729.0	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.40
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3592.1	η UP, DN(C0-180)	9.5,40.8
NOMINAL FLUX(lm)	3592.1	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	9.9,39.9
LAMPS INSIDE	1	η up(%)	19.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	80.7	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	716.4	721.6	725.5	722.7	717.2	718.3	720.0	718.5	0- 10	69.12	69.12	1.92,1.92
20	680.4	699.3	714.9	700.5	683.2	693.0	702.2	691.7	10- 20	200.6	269.7	7.51,7.51
30	622.7	661.7	693.0	663.0	625.6	651.4	674.5	650.2	20- 30	312.6	582.3	16.2,16.2
40	543.0	610.0	659.2	612.4	547.6	596.9	637.4	595.1	30- 40	394.3	976.6	27.2,27.2
50	442.5	546.1	614.9	549.3	447.3	532.2	593.0	530.2	40- 50	438.4	1415	39.4,39.4
60	324.4	476.8	562.2	478.7	330.0	461.5	540.7	458.9	50- 60	442.6	1858	51.7,51.7
70	192.1	401.2	501.1	404.4	198.6	388.9	483.3	386.3	60- 70	410.0	2268	63.1,63.1
80	64.19	327.6	436.3	329.5	71.00	319.4	423.4	316.6	70- 80	350.1	2618	72.9,72.9
90	0.2779	260.0	369.9	261.2	0.3458	257.0	363.2	254.5	80- 90	280.4	2898	80.7,80.7
100	1.069	201.7	306.0	202.5	1.207	203.5	304.3	201.0	90-100	220.1	3118	86.8,86.8
110	3.830	150.0	243.6	150.4	3.706	156.8	248.0	154.4	100-110	167.6	3286	91.5,91.5
120	7.372	105.5	183.6	105.6	6.991	115.7	191.6	113.3	110-120	120.2	3406	94.8,94.8
130	10.59	74.62	128.5	74.42	10.19	82.52	139.9	81.36	120-130	80.43	3486	97.1,97.1
140	13.01	54.59	88.50	54.48	12.86	62.69	97.03	62.20	130-140	50.61	3537	98.5,98.5
150	15.10	38.52	59.60	38.59	14.59	45.02	68.79	47.69	140-150	30.47	3567	99.3,99.3
160	14.08	25.45	36.69	25.43	13.35	30.09	45.52	36.96	150-160	16.29	3584	99.8,99.8
170	12.90	18.90	20.75	13.50	11.98	16.34	27.80	25.58	160-170	6.737	3590	100,100
180	18.78	17.20	6.012	17.13	18.81	18.59	11.95	15.50	170-180	1.619	3592	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1192.8 lm

%lum = 33.2%

%lamp = 33.2%

Conical surface Flux(120deg): 1857.7 lm

%lum = 51.7%

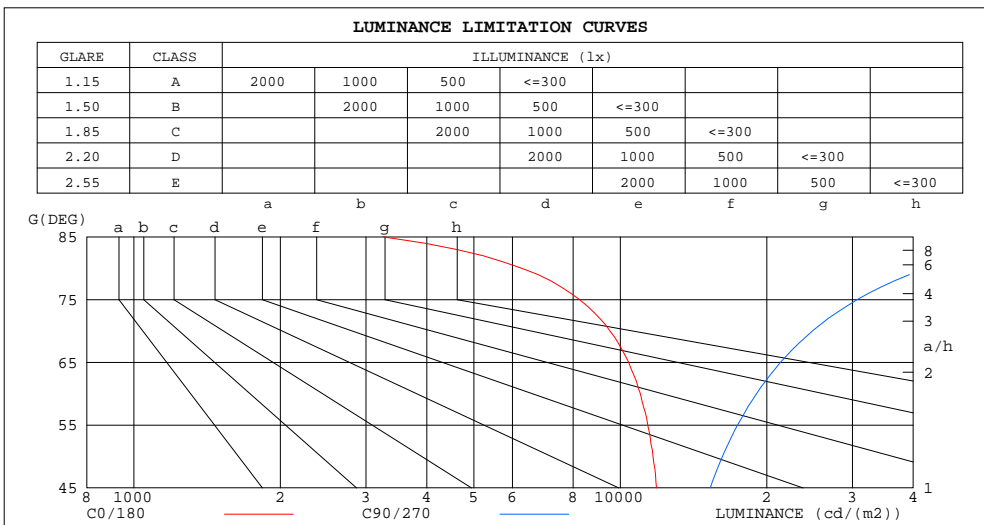
%lamp = 51.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3252	78366
80	6266	42584
75	8241	30685
70	9517	24834
65	10405	21341
60	10996	19057
55	11386	17421
50	11668	16214
45	11871	15308

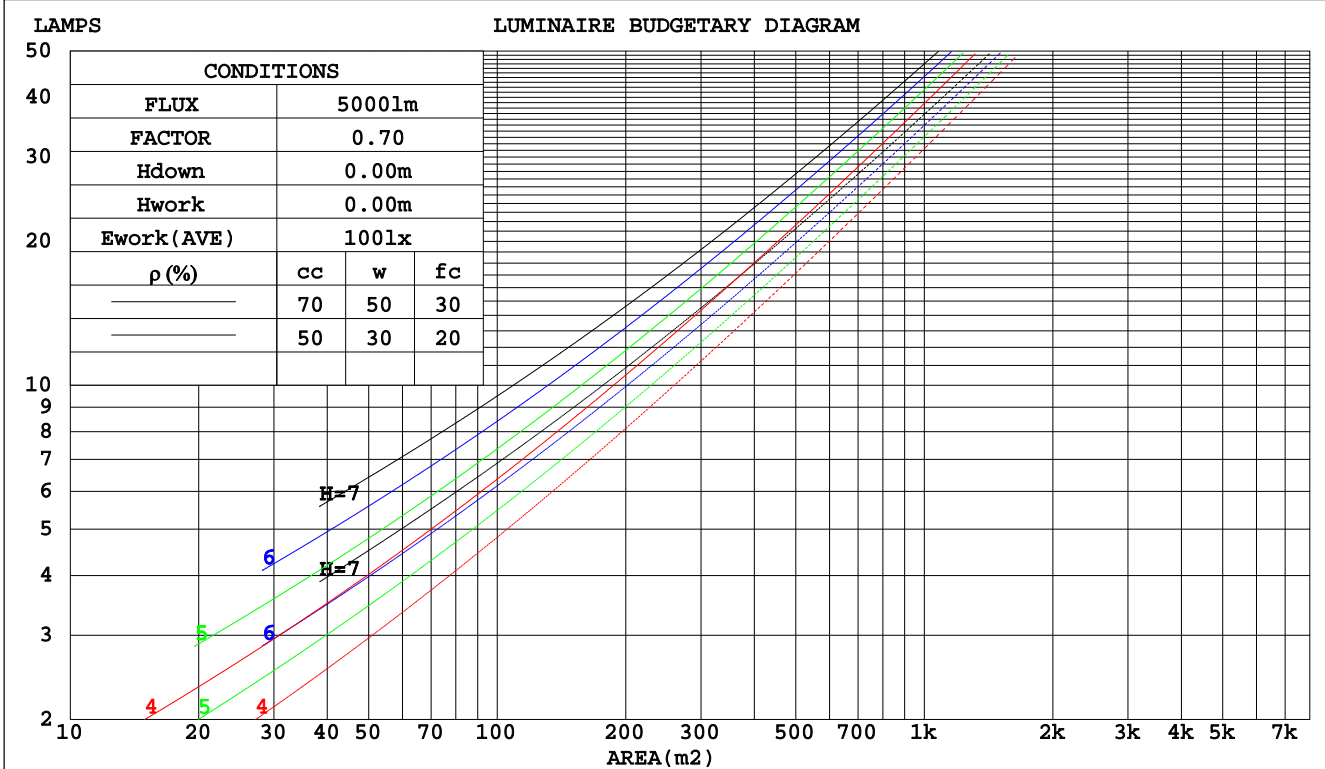
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.10	1.10	1.10	1.00	1.00	1.00	.92	.92	.92	.84	.84	.84	.81
1.0	.95	.90	.85	.91	.86	.81	.83	.79	.75	.76	.72	.70	.69	.66	.64	.61
2.0	.81	.73	.66	.77	.70	.64	.71	.65	.60	.64	.60	.55	.59	.55	.51	.48
3.0	.70	.61	.54	.67	.59	.52	.61	.54	.49	.56	.50	.45	.51	.46	.42	.39
4.0	.62	.52	.45	.59	.50	.43	.54	.47	.41	.49	.43	.38	.45	.40	.36	.33
5.0	.55	.45	.38	.52	.43	.37	.48	.40	.35	.44	.37	.32	.40	.35	.30	.28
6.0	.49	.39	.33	.47	.38	.32	.43	.36	.30	.39	.33	.28	.36	.31	.26	.24
7.0	.44	.35	.28	.42	.34	.28	.39	.32	.26	.36	.29	.25	.33	.27	.23	.21
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.33	.26	.22	.30	.25	.21	.18
9.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.30	.24	.20	.28	.22	.18	.16
10.0	.34	.25	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.20	.17	.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.391	.222	.070	.378	.215	.068	.353	.203	.065	.331	.191	.061	.310	.180	.058	
2.0	.337	.185	.057	.325	.179	.055	.303	.168	.052	.282	.158	.050	.263	.149	.047	
3.0	.299	.159	.048	.288	.154	.046	.268	.145	.044	.249	.137	.042	.232	.128	.040	
4.0	.268	.139	.041	.259	.135	.040	.240	.127	.038	.223	.120	.036	.208	.113	.034	
5.0	.244	.124	.036	.235	.121	.035	.218	.114	.033	.203	.107	.032	.188	.101	.030	
6.0	.223	.112	.032	.215	.109	.031	.200	.102	.030	.186	.097	.028	.172	.091	.027	
7.0	.206	.102	.029	.198	.099	.028	.184	.093	.027	.171	.088	.026	.159	.083	.024	
8.0	.191	.093	.026	.184	.091	.026	.171	.085	.024	.159	.081	.023	.148	.076	.022	
9.0	.177	.086	.024	.171	.083	.023	.160	.079	.022	.148	.074	.021	.138	.070	.020	
10.0	.166	.080	.022	.160	.077	.022	.149	.073	.021	.139	.069	.020	.130	.065	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.338	.338	.338	.289	.289	.289	.197	.197	.197	.113	.113	.113	.036	.036	.036	
1.0	.334	.304	.276	.286	.261	.238	.196	.179	.165	.113	.104	.096	.036	.033	.031	
2.0	.328	.281	.242	.281	.242	.209	.192	.167	.146	.111	.097	.086	.036	.032	.028	
3.0	.320	.265	.220	.275	.228	.191	.188	.159	.134	.109	.093	.079	.035	.030	.026	
4.0	.312	.252	.206	.268	.218	.179	.184	.152	.126	.107	.089	.075	.034	.029	.025	
5.0	.305	.243	.197	.262	.210	.171	.180	.147	.121	.104	.086	.072	.034	.028	.024	
6.0	.297	.235	.190	.256	.203	.165	.176	.142	.117	.102	.084	.069	.033	.027	.023	
7.0	.290	.228	.185	.250	.198	.161	.172	.139	.114	.100	.082	.068	.032	.027	.022	
8.0	.283	.223	.181	.244	.193	.157	.169	.136	.112	.098	.080	.067	.032	.026	.022	
9.0	.277	.218	.178	.239	.189	.155	.165	.133	.110	.096	.078	.066	.031	.026	.022	
10.0	.271	.214	.175	.234	.185	.153	.162	.131	.109	.095	.077	.065	.031	.025	.021	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm										
NAME: ASD-LVF23-48D35CC-NK 3000K					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
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	19.9	21.3	20.4	21.8	22.4	22.1	23.5	22.7	24.0	24.6
3H	21.4	22.6	21.9	23.2	23.8	24.9	26.2	25.4	26.7	27.3
4H	21.9	23.1	22.5	23.7	24.4	26.4	27.6	27.0	28.2	28.8
6H	22.3	23.4	22.9	24.0	24.7	28.1	29.2	28.7	29.8	30.5
8H	22.4	23.5	23.0	24.1	24.8	29.0	30.1	29.6	30.7	31.4
12H	22.4	23.4	23.0	24.1	24.8	30.1	31.1	30.7	31.7	32.5
4H 2H	21.2	22.4	21.7	22.9	23.6	22.7	23.9	23.3	24.5	25.2
3H	23.0	24.0	23.6	24.6	25.3	25.7	26.8	26.3	27.4	28.1
4H	23.7	24.7	24.4	25.3	26.1	27.4	28.4	28.1	29.1	29.8
6H	24.3	25.2	25.0	25.8	26.6	29.3	30.2	30.0	30.9	31.6
8H	24.5	25.3	25.2	26.0	26.8	30.4	31.2	31.1	31.9	32.7
12H	24.6	25.3	25.3	26.0	26.8	31.6	32.4	32.3	33.1	33.9
8H 4H	25.0	25.8	25.6	26.4	27.2	27.8	28.6	28.5	29.3	30.1
6H	26.0	26.7	26.7	27.4	28.2	30.0	30.7	30.7	31.4	32.3
8H	26.4	27.0	27.2	27.8	28.6	31.3	31.9	32.0	32.6	33.5
12H	26.7	27.3	27.5	28.0	28.9	32.8	33.3	33.5	34.1	34.9
12H 4H	25.3	26.1	26.0	26.8	27.6	27.8	28.6	28.5	29.3	30.1
6H	26.7	27.3	27.4	28.0	28.8	30.2	30.8	30.9	31.5	32.4
8H	27.3	27.9	28.0	28.6	29.5	31.6	32.1	32.3	32.8	33.7
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	+ 0.2 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 3592 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.4)  
 Area: 0.059 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

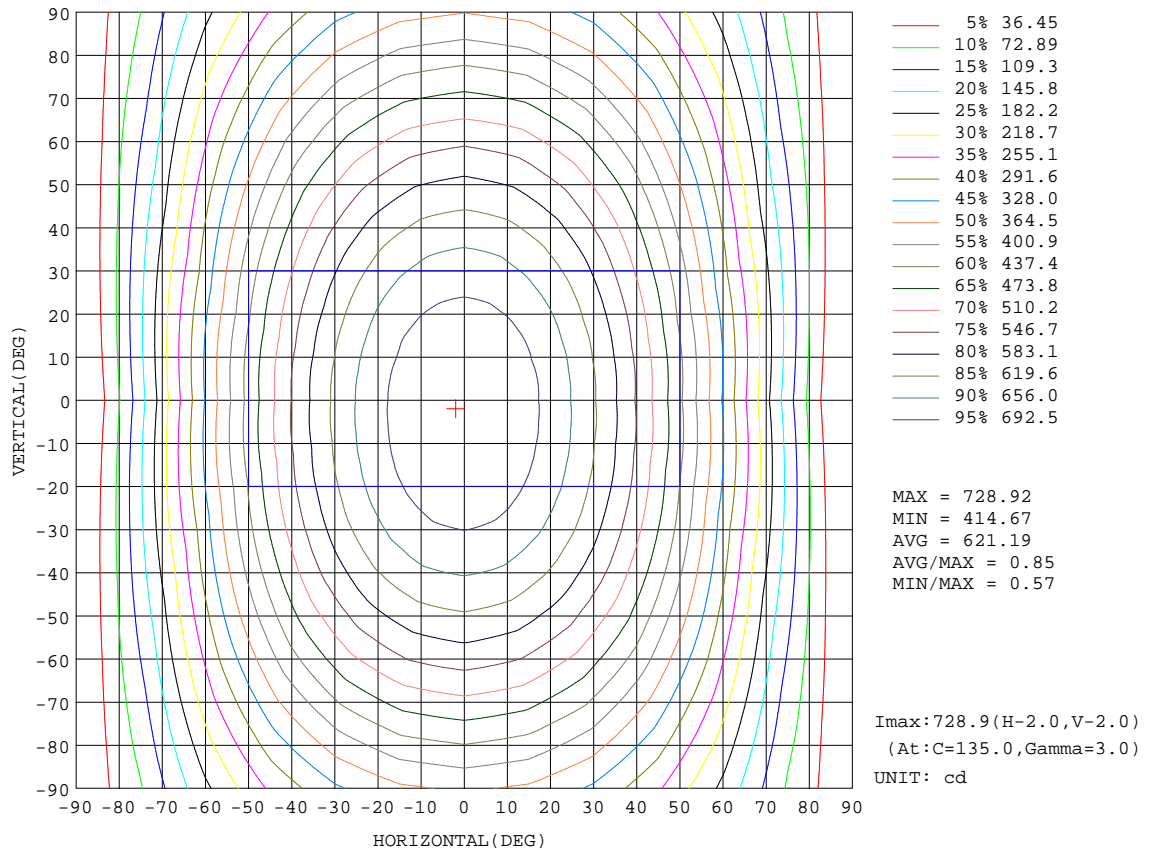
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	46	34	27	44	33	26	20
0.80	56	43	35	54	42	34	51	41	33	25
1.00	64	51	42	62	49	41	58	50	40	31
1.25	71	58	49	68	56	48	64	54	47	37
1.50	76	63	55	73	62	53	68	58	51	41
2.00	83	72	63	80	70	62	74	66	59	47
2.50	88	77	69	84	75	67	78	70	64	51
3.00	91	82	74	88	79	72	81	74	68	54
4.00	96	88	81	92	85	79	85	79	74	59
5.00	99	92	86	95	89	83	87	82	78	62
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

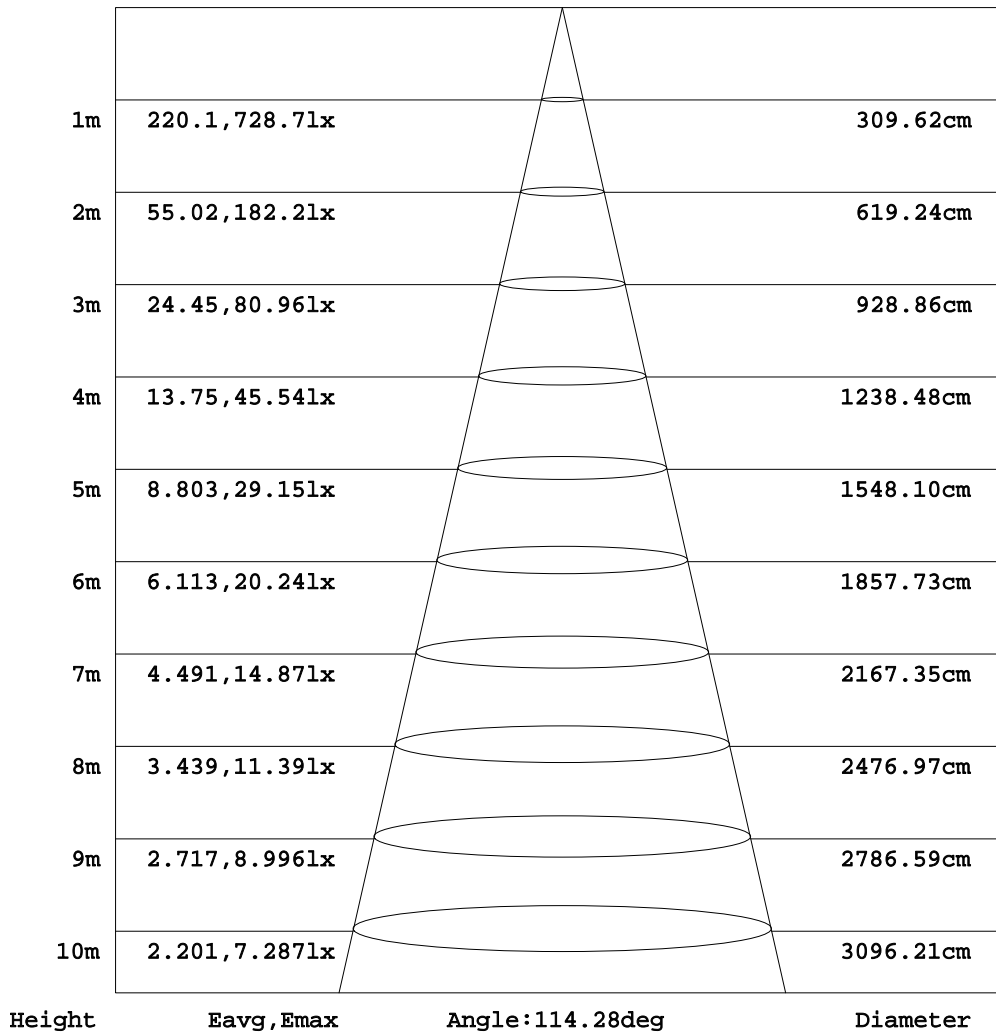
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:



AAI Figure

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:1771 lm



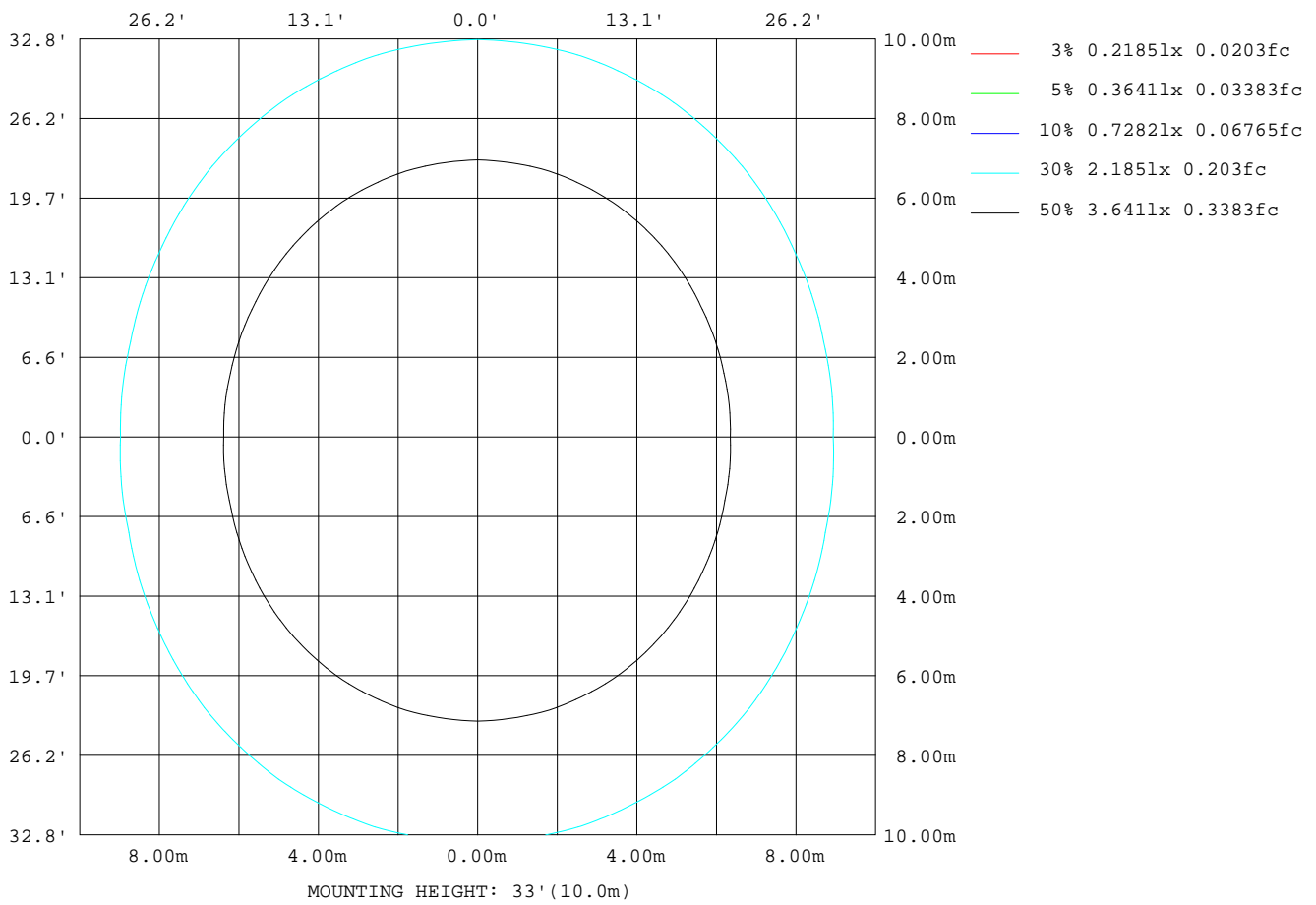
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

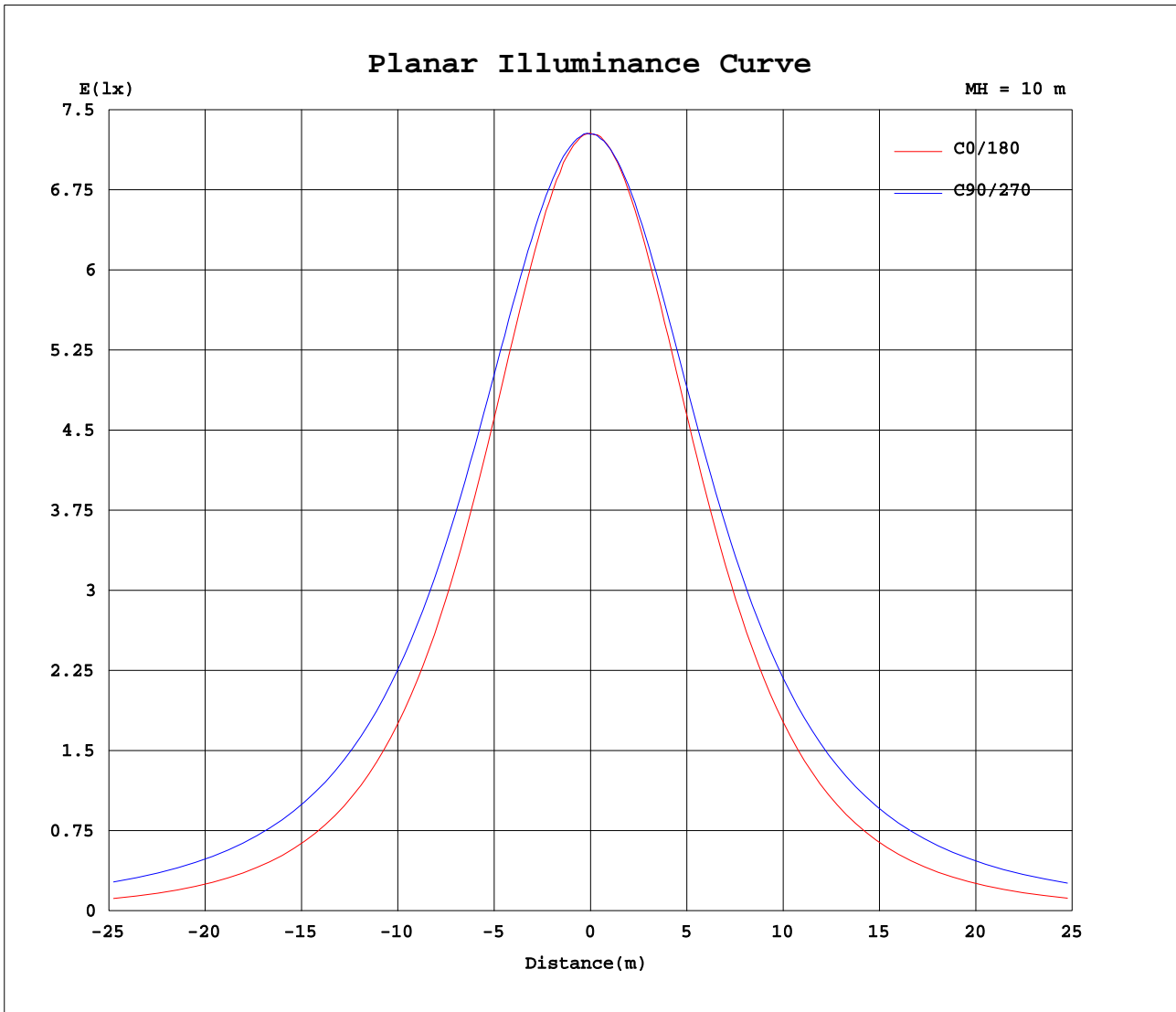
AvgL	cd/m2
L_0~180(65)av	10537
L_0~180(75)av	8467
L_0~180(85)av	3929
L_90~270(65)av	20931
L_90~270(75)av	30184
L_90~270(85)av	77424
L_45(65)av	17339
L_45(75)av	23494
L_45(85)av	56341

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 23 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 44.6%  
Test Distance: 2.500m [K=1.0391]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	728	728	728	728	728	728	727	728	728	728	728	728	728	728	728	728	728	728	728
5	725	725	725	727	727	729	728	728	728	728	728	726	726	725	725	726	725	725	725
10	716	718	719	722	724	726	726	725	724	723	721	718	717	717	717	718	720	720	720
15	701	703	707	713	717	720	722	721	717	714	708	705	703	702	704	708	710	711	713
20	680	684	690	699	707	713	715	713	708	701	692	686	683	683	687	693	697	702	702
25	654	659	670	682	693	702	706	703	696	684	672	661	657	659	665	673	682	688	690
30	623	630	644	662	677	689	693	689	680	663	646	631	626	628	638	651	663	672	675
35	585	594	614	637	658	672	677	673	660	639	617	597	589	594	606	625	642	653	658
40	543	555	580	610	635	653	659	654	637	612	583	557	548	554	572	597	618	632	637
45	495	511	543	579	610	630	639	632	613	582	546	514	500	509	534	565	592	609	616
50	443	462	503	546	583	606	615	608	585	549	506	466	447	460	494	532	564	585	593
55	385	410	461	512	554	580	590	581	556	514	463	414	391	408	451	497	535	559	568
60	324	355	416	477	523	552	562	553	525	479	419	359	330	353	406	461	505	531	541
65	259	298	371	439	490	522	532	523	492	442	375	303	266	296	362	425	473	502	512
70	192	242	326	401	457	490	501	491	458	404	330	246	199	241	319	389	441	473	483
75	126	187	284	364	422	457	469	458	424	367	287	192	133	187	277	354	409	442	453
80	64.2	139	242	328	388	424	436	424	389	330	245	143	71.0	139	238	319	377	412	423
85	16.7	97.7	205	293	355	391	403	391	355	294	208	101	23.7	100	203	287	346	382	393
90	0.28	68.1	173	260	322	358	370	358	322	261	175	70.3	0.35	72.8	173	257	316	351	363
95	0.42	49.8	146	229	290	326	337	326	290	230	147	51.1	0.56	55.3	149	230	288	322	333
100	1.07	37.0	123	202	260	295	306	295	260	203	124	38.0	1.21	43.4	127	204	260	294	304
105	2.29	29.0	102	175	230	264	275	264	230	176	103	29.2	2.26	34.7	109	179	234	266	276
110	3.83	25.7	83.7	150	202	233	244	233	202	150	84.3	25.7	3.71	30.7	92.4	157	207	238	248
115	5.56	23.9	68.1	127	174	203	213	203	174	127	68.3	23.7	5.38	28.7	77.8	136	181	210	220
120	7.37	22.5	58.9	106	148	174	184	175	148	106	58.7	22.2	6.99	27.2	65.9	116	157	183	192
125	9.04	21.1	51.6	87.3	123	147	155	147	123	87.2	51.3	20.9	8.62	26.4	58.5	97.2	134	157	165
130	10.6	19.9	45.5	74.6	101	121	129	121	100	74.4	45.3	19.7	10.2	25.7	52.5	82.5	112	133	140
135	12.0	18.6	40.0	64.0	85.3	100	105	100	85.3	63.8	39.9	18.4	11.7	24.9	45.6	72.1	93.8	110	116
140	13.0	17.4	35.0	54.6	72.0	83.9	88.5	83.9	72.0	54.5	34.9	17.2	12.9	24.3	41.3	62.7	80.6	92.8	97.0
145	14.1	17.0	30.4	46.1	60.1	69.7	73.3	69.8	60.1	46.1	30.3	16.2	13.7	23.5	36.5	54.1	68.6	78.6	82.2
150	15.1	17.2	26.1	38.5	49.4	56.9	59.6	56.9	49.5	38.6	26.3	16.5	14.6	22.1	32.6	45.0	57.4	65.6	68.8
155	14.8	17.8	22.3	31.7	39.8	45.4	47.5	45.5	39.9	31.8	21.9	16.2	14.3	18.8	28.5	37.4	45.1	53.6	56.5
160	14.1	17.8	20.0	25.5	31.3	35.3	36.7	35.4	31.5	25.4	17.0	14.9	13.4	15.6	22.1	30.1	37.1	41.2	45.5
165	13.1	14.3	19.3	21.0	23.8	26.4	27.3	26.5	23.4	17.7	14.0	12.8	12.2	12.9	16.0	21.5	27.4	33.4	35.2
170	12.9	12.9	17.1	18.9	19.7	20.5	20.8	20.5	15.8	13.5	14.1	12.7	12.0	12.1	13.7	16.3	17.9	22.9	27.8
175	15.8	15.7	15.7	16.5	17.3	18.5	19.3	12.4	13.1	14.9	15.2	15.1	15.3	15.3	15.0	15.4	15.5	13.2	16.3
180	18.8	18.7	18.1	17.2	15.3	13.4	6.01	14.4	16.0	17.1	18.2	18.7	18.8	19.3	19.2	18.6	18.1	16.8	12.0

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.3283A P:36.520W PF:0.9269 Freq:60.00Hz Lamp Flux:3592.1x1 lm		
NAME: ASD-LVF23-48D35CC-NK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG)\ γ (DEG)	285	300	315	330	345														
0	728	728	728	728	728														
5	725	725	726	725	725														
10	720	719	719	717	717														
15	712	709	707	704	703														
20	701	697	692	686	683														
25	687	681	673	664	656														
30	671	662	650	636	627														
35	653	640	624	605	591														
40	632	617	595	570	550														
45	610	591	564	531	506														
50	585	563	530	491	457														
55	559	533	494	447	404														
60	531	503	459	403	348														
65	502	472	423	358	291														
70	472	440	386	314	234														
75	442	408	350	272	179														
80	412	376	317	233	131														
85	382	345	284	198	92.7														
90	351	315	255	169	65.8														
95	322	286	227	144	49.7														
100	294	259	201	123	38.9														
105	265	232	177	105	31.2														
110	237	205	154	88.9	28.6														
115	209	180	133	74.5	27.2														
120	182	156	113	63.8	26.4														
125	157	133	95.0	57.1	25.7														
130	132	111	81.4	51.3	25.1														
135	109	93.1	71.2	46.3	24.6														
140	92.5	80.3	62.2	41.9	24.1														
145	78.7	68.9	54.5	38.1	23.8														
150	66.4	58.8	47.7	35.1	23.6														
155	55.3	50.2	42.1	32.8	23.7														
160	45.3	42.2	37.0	30.7	23.8														
165	36.2	34.8	31.8	27.6	22.7														
170	28.3	27.7	25.6	23.0	19.1														
175	21.5	20.3	18.7	16.6	16.3														
180	0.00	15.4	15.5	15.9	16.2														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks: