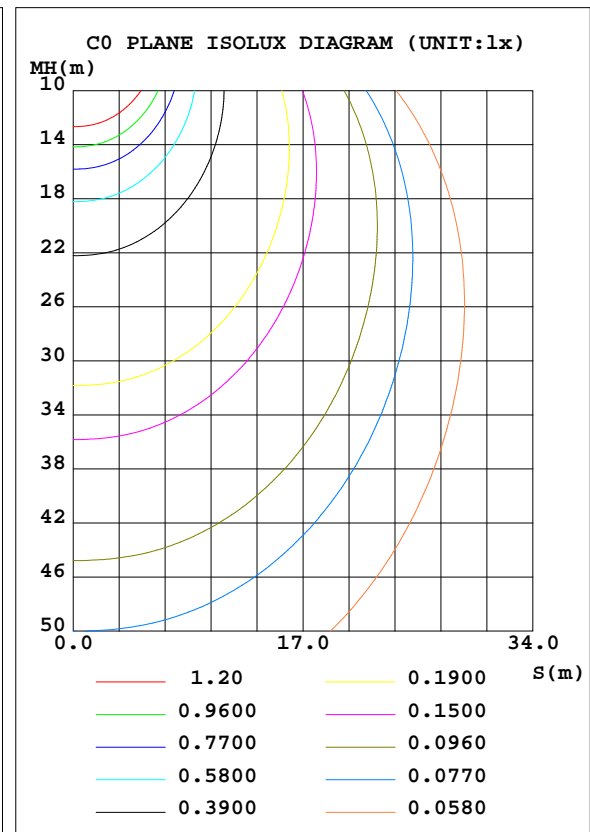
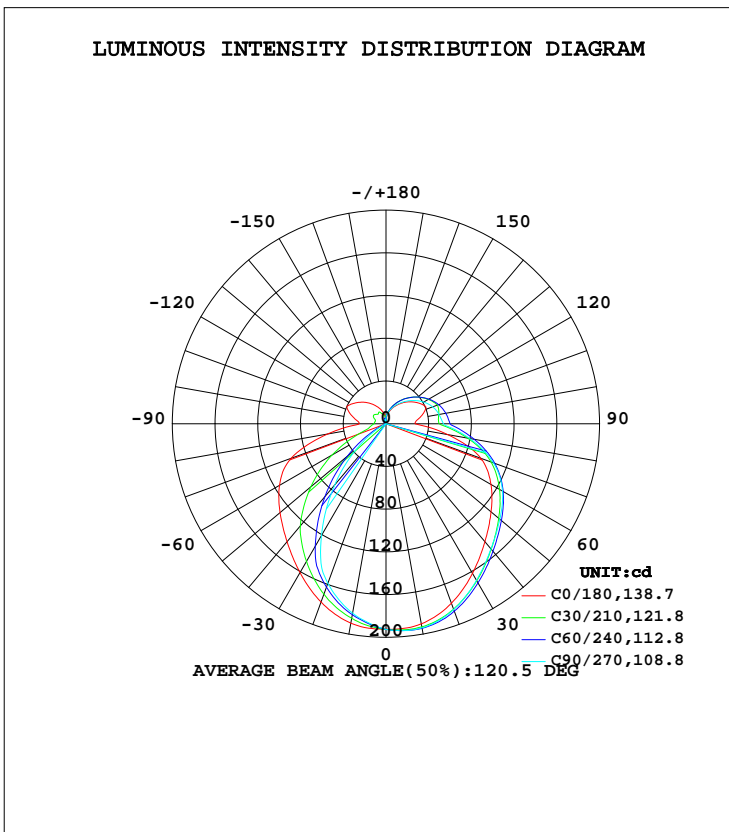


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.79 lm/W			
MODEL	ASD-LVF25M-2D12BK/CH	I _{max} (cd)	194.9	S/MH(C0/180)	1.25
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.01
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	739.06	η UP, DN(C0-180)	16.7,51.6
NOMINAL FLUX(lm)	739.064	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	4.1,27.6
LAMPS INSIDE	1	η up(%)	20.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	79.2	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	190.3	194.0	194.1	193.8	189.6	183.2	180.2	184.1	0- 10	18.19	18.19	2.46,2.46
20	178.9	186.5	185.2	185.7	177.7	166.3	159.1	167.6	10- 20	51.67	69.87	9.45,9.45
30	161.9	171.7	169.5	171.1	161.0	142.6	120.9	144.5	20- 30	76.70	146.6	19.8,19.8
40	144.3	155.1	152.9	154.6	144.0	105.1	74.78	109.1	30- 40	89.50	236.1	31.9,31.9
50	128.4	139.4	139.2	139.1	129.5	65.33	34.57	69.69	40- 50	91.40	327.5	44.3,44.3
60	113.5	124.2	125.9	123.6	115.1	28.27	6.657	32.99	50- 60	85.44	412.9	55.9,55.9
70	94.54	105.9	107.0	104.9	94.38	4.942	0.1001	7.468	60- 70	74.07	487.0	65.9,65.9
80	58.76	82.21	79.52	80.38	55.66	4.170	0.1179	5.922	70- 80	58.49	545.5	73.8,73.8
90	27.40	58.34	53.93	57.64	25.19	3.886	0.1359	5.623	80- 90	39.85	585.3	79.2,79.2
100	31.90	55.99	50.47	55.72	30.21	3.808	0.1517	5.490	90-100	31.84	617.2	83.5,83.5
110	39.33	52.64	46.56	52.81	38.00	3.683	0.1546	5.282	100-110	31.30	648.5	87.7,87.7
120	37.56	46.79	40.78	47.00	37.16	3.824	0.4109	5.165	110-120	28.84	677.3	91.6,91.6
130	32.00	39.81	33.96	39.99	31.44	4.836	1.133	5.028	120-130	23.35	700.6	94.8,94.8
140	26.07	32.35	27.22	32.48	25.53	6.215	1.385	6.440	130-140	17.15	717.8	97.1,97.1
150	20.10	24.84	21.07	24.91	19.59	6.046	2.309	6.156	140-150	11.29	729.1	98.6,98.6
160	14.66	17.60	15.49	17.69	14.23	6.626	3.331	5.348	150-160	6.483	735.6	99.5,99.5
170	9.659	10.86	10.38	10.88	9.325	6.237	4.485	5.066	160-170	2.911	738.5	99.9,99.9
180	0.5687	1.517	0.7274	1.008	0.7362	1.535	1.372	1.327	170-180	0.5843	739.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 282.09 lm

%lum = 38.2%

%lamp = 38.2%

Conical surface Flux(120deg): 412.91 lm

%lum = 55.9%

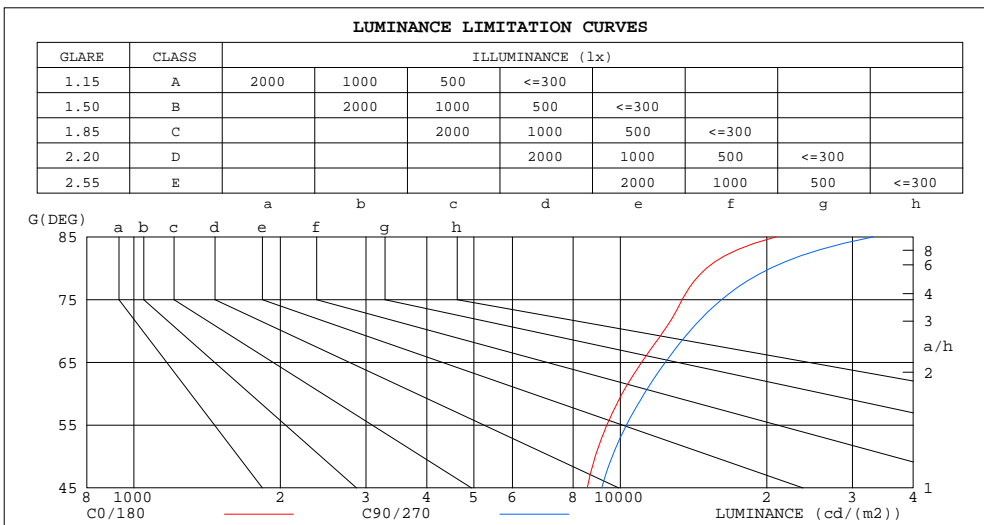
%lamp = 55.9%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	20914	33149
80	15038	20352
75	13400	16154
70	12285	13906
65	11059	12372
60	10088	11193
55	9380	10292
50	8880	9627
45	8549	9162

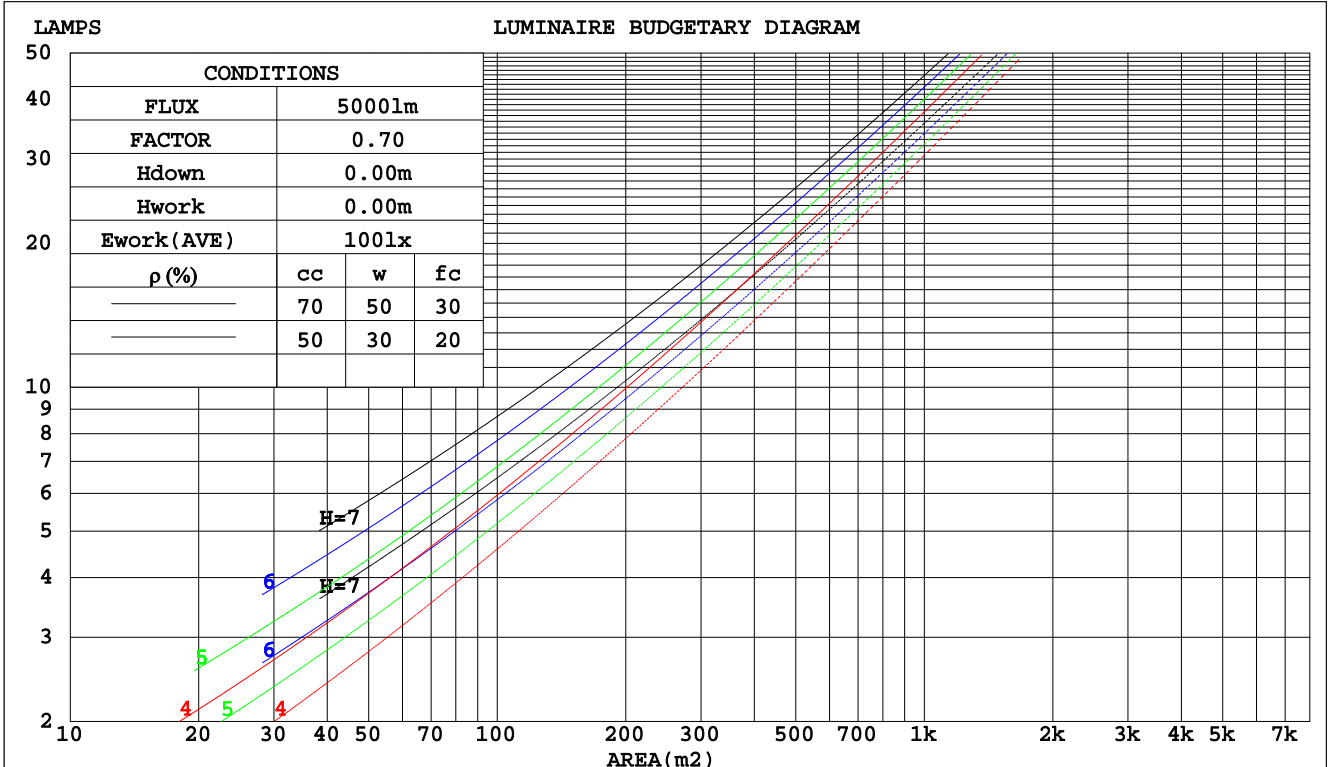
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	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																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.83	.83	.83	.79
1.0	.97	.92	.87	.92	.88	.84	.84	.81	.78	.77	.74	.72	.70	.68	.66	.62
2.0	.83	.76	.70	.80	.73	.68	.73	.67	.63	.66	.62	.58	.61	.57	.54	.51
3.0	.73	.64	.58	.70	.62	.56	.64	.57	.52	.58	.53	.49	.53	.49	.45	.42
4.0	.64	.55	.49	.62	.53	.47	.56	.50	.44	.52	.46	.41	.47	.43	.39	.36
5.0	.57	.48	.42	.55	.47	.40	.51	.43	.38	.46	.40	.36	.42	.38	.34	.31
6.0	.52	.43	.36	.49	.41	.35	.46	.38	.33	.42	.36	.31	.39	.33	.29	.27
7.0	.47	.38	.32	.45	.37	.31	.41	.34	.29	.38	.32	.28	.35	.30	.26	.24
8.0	.42	.34	.28	.41	.33	.28	.38	.31	.26	.35	.29	.25	.32	.27	.23	.21
9.0	.39	.31	.25	.38	.30	.25	.35	.28	.23	.32	.26	.22	.30	.25	.21	.19
10.0	.36	.28	.23	.35	.27	.22	.32	.26	.21	.30	.24	.20	.28	.23	.19	.17



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	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	.351	.200	.063	.337	.192	.061	.312	.179	.057	.289	.167	.053	.268	.155	.050	
2.0	.310	.170	.052	.298	.164	.051	.275	.153	.048	.254	.143	.045	.235	.133	.042	
3.0	.279	.148	.044	.268	.143	.043	.247	.134	.041	.228	.125	.038	.210	.117	.036	
4.0	.253	.132	.039	.243	.127	.038	.224	.119	.036	.207	.111	.034	.191	.104	.032	
5.0	.231	.118	.034	.222	.114	.033	.205	.107	.031	.189	.100	.030	.175	.093	.028	
6.0	.213	.107	.031	.205	.103	.030	.189	.097	.028	.175	.091	.027	.161	.085	.025	
7.0	.197	.098	.028	.190	.095	.027	.175	.089	.026	.162	.083	.024	.149	.078	.023	
8.0	.183	.090	.025	.177	.087	.025	.163	.082	.023	.151	.077	.022	.139	.072	.021	
9.0	.171	.083	.023	.165	.080	.023	.153	.076	.021	.142	.071	.020	.131	.066	.019	
10.0	.161	.077	.021	.155	.075	.021	.144	.070	.020	.133	.066	.019	.123	.062	.018	

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	.349	.349	.349	.298	.298	.298	.204	.204	.204	.117	.117	.117	.037	.037	.037	
1.0	.343	.316	.291	.293	.271	.250	.201	.186	.173	.116	.108	.101	.037	.035	.033	
2.0	.336	.293	.257	.287	.252	.222	.197	.174	.155	.114	.101	.091	.036	.033	.030	
3.0	.328	.276	.235	.281	.238	.204	.193	.165	.143	.111	.097	.084	.036	.031	.028	
4.0	.320	.264	.220	.275	.228	.191	.189	.159	.135	.109	.093	.080	.035	.030	.026	
5.0	.313	.254	.210	.269	.219	.183	.185	.153	.129	.107	.090	.077	.035	.029	.025	
6.0	.306	.246	.203	.263	.213	.177	.181	.149	.125	.105	.088	.074	.034	.029	.025	
7.0	.299	.239	.197	.257	.207	.172	.178	.145	.122	.103	.086	.073	.033	.028	.024	
8.0	.292	.234	.193	.252	.203	.168	.174	.142	.120	.101	.084	.071	.033	.028	.024	
9.0	.286	.229	.190	.247	.199	.166	.171	.140	.118	.100	.082	.070	.032	.027	.023	
10.0	.281	.225	.187	.242	.195	.164	.168	.137	.116	.098	.081	.069	.032	.027	.023	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	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	20.5	21.8	21.1	22.4	23.0	20.9	22.2	21.4	22.7	23.3
3H	23.0	24.2	23.6	24.7	25.4	23.5	24.6	24.0	25.2	25.8
4H	24.1	25.3	24.7	25.9	26.5	24.8	25.9	25.4	26.5	27.1
6H	25.2	26.2	25.8	26.8	27.5	26.1	27.1	26.7	27.7	28.4
8H	25.6	26.7	26.3	27.3	28.0	26.8	27.8	27.4	28.4	29.1
12H	26.1	27.1	26.7	27.7	28.4	27.5	28.5	28.1	29.1	29.8
4H 2H	21.5	22.6	22.0	23.2	23.8	21.7	22.8	22.3	23.4	24.1
3H	24.1	25.1	24.7	25.7	26.4	24.5	25.4	25.1	26.1	26.8
4H	25.4	26.3	26.1	27.0	27.7	25.9	26.8	26.6	27.5	28.2
6H	26.6	27.4	27.3	28.1	28.9	27.5	28.2	28.1	28.9	29.7
8H	27.2	27.9	27.9	28.6	29.4	28.2	29.0	28.9	29.7	30.5
12H	27.8	28.4	28.5	29.1	30.0	29.1	29.8	29.8	30.5	31.3
8H 4H	26.1	26.8	26.8	27.5	28.3	26.5	27.2	27.2	27.9	28.7
6H	27.6	28.2	28.3	28.9	29.8	28.3	28.9	29.0	29.6	30.5
8H	28.3	28.9	29.1	29.6	30.5	29.2	29.8	30.0	30.5	31.4
12H	29.1	29.6	29.9	30.3	31.2	30.3	30.8	31.1	31.6	32.5
12H 4H	26.2	26.9	26.9	27.6	28.4	26.6	27.2	27.3	28.0	28.8
6H	27.9	28.4	28.6	29.2	30.0	28.5	29.0	29.2	29.8	30.6
8H	28.8	29.2	29.5	30.0	30.9	29.6	30.1	30.3	30.8	31.7
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					+ 0.2 / - 0.4				

CIE Pub.117, 739.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.1)
 Area: 0.0225 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

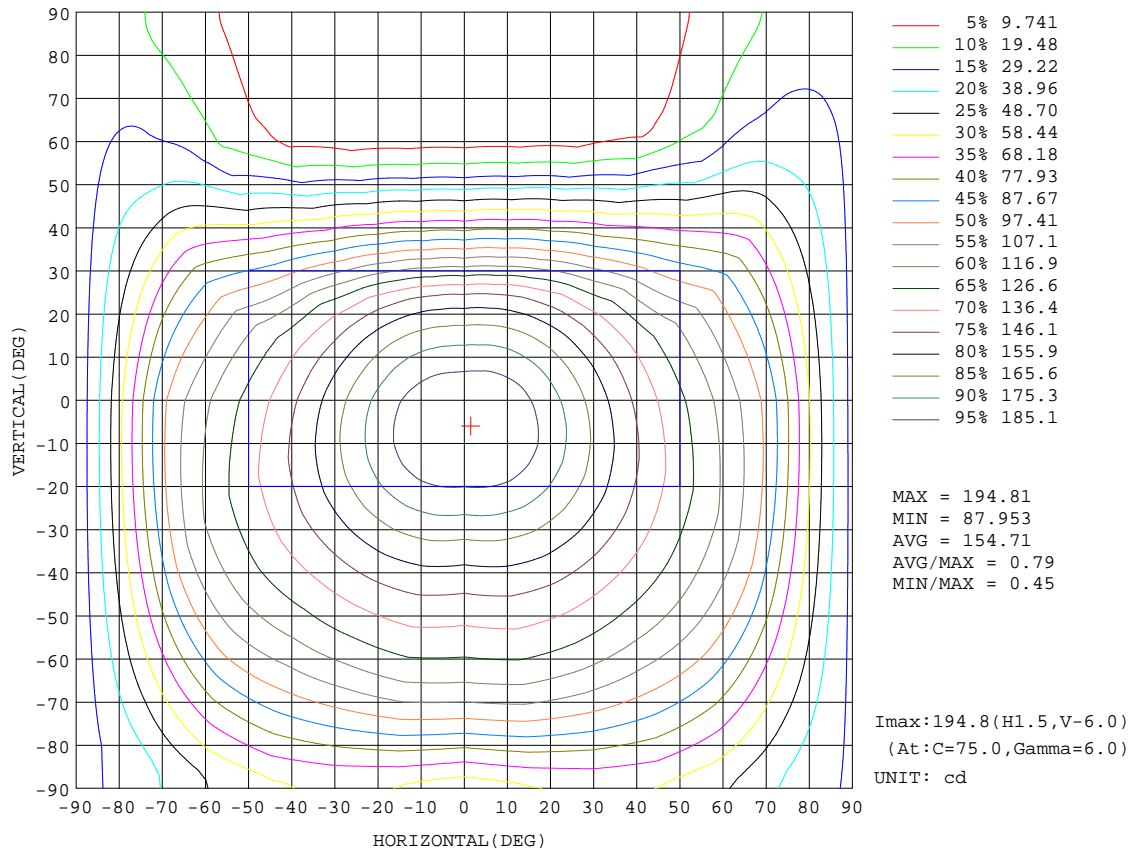
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	31	48	37	30	46	36	30	23
0.80	59	47	39	57	46	38	54	44	37	29
1.00	67	54	46	64	53	46	61	53	44	35
1.25	73	61	53	71	60	52	66	57	51	41
1.50	78	67	59	76	65	58	70	62	55	45
2.00	85	75	67	82	73	66	76	68	62	50
2.50	90	80	73	86	78	71	79	73	67	54
3.00	93	85	78	89	82	76	82	76	71	57
4.00	98	91	85	94	87	82	86	81	76	61
5.00	101	94	89	96	91	86	88	84	80	64
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: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

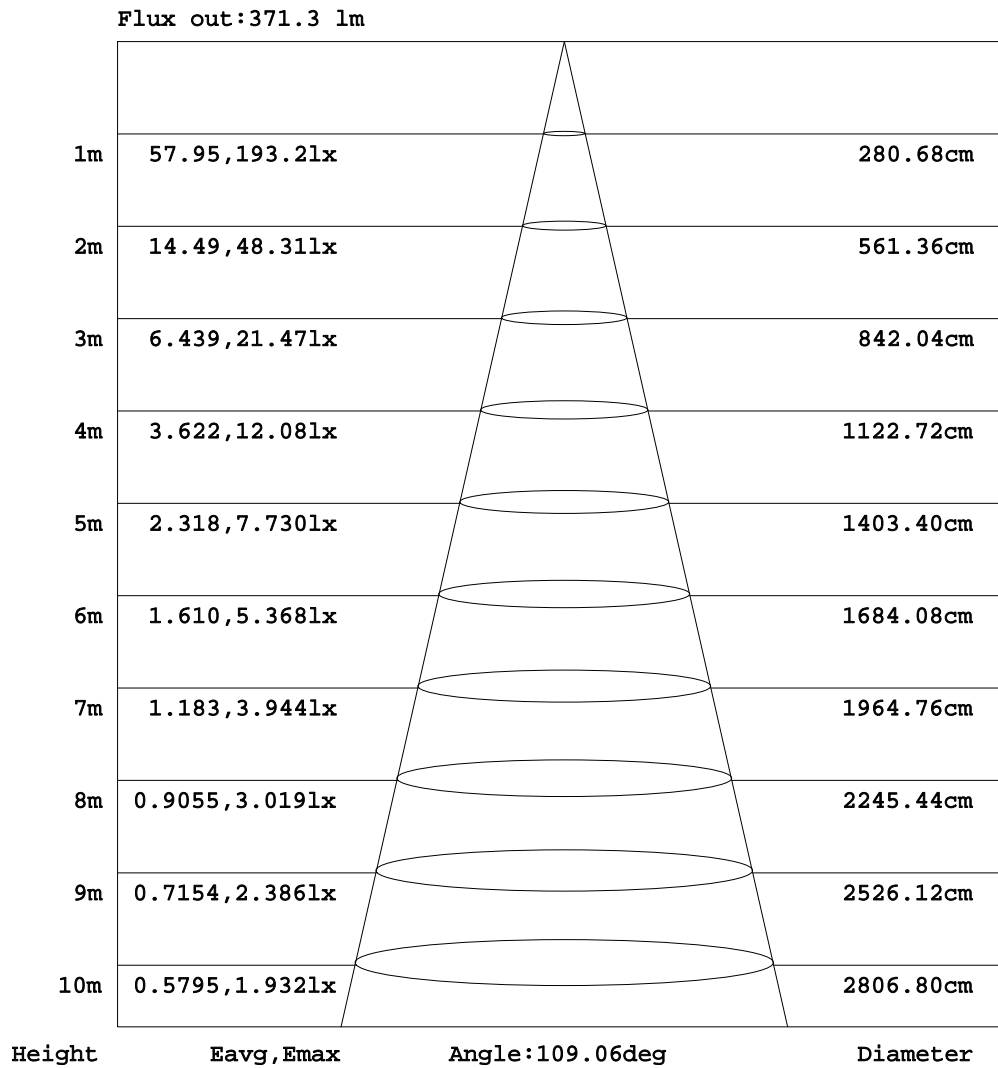


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

AAI Figure

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



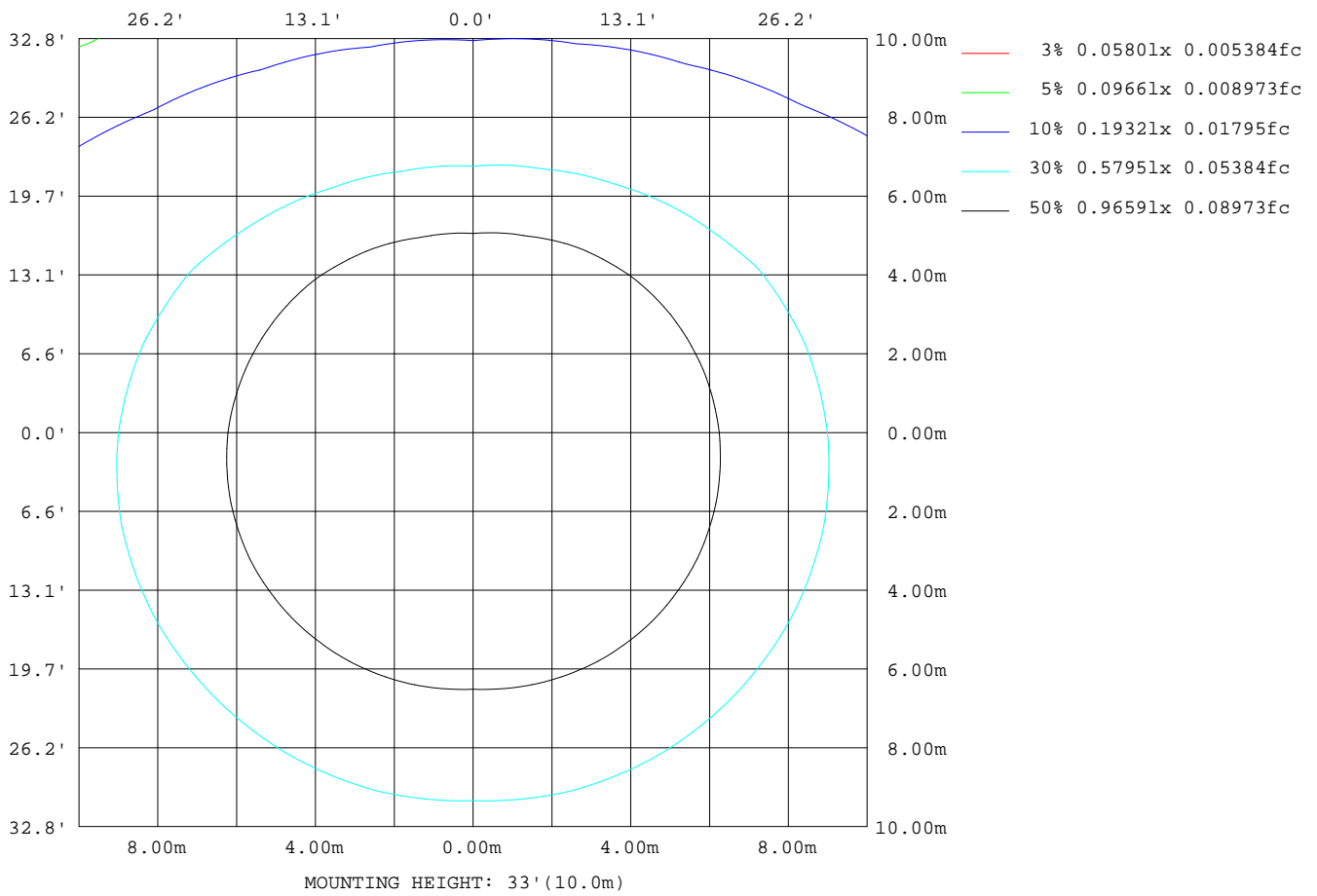
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance:2.500m [K=1.0388]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	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: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

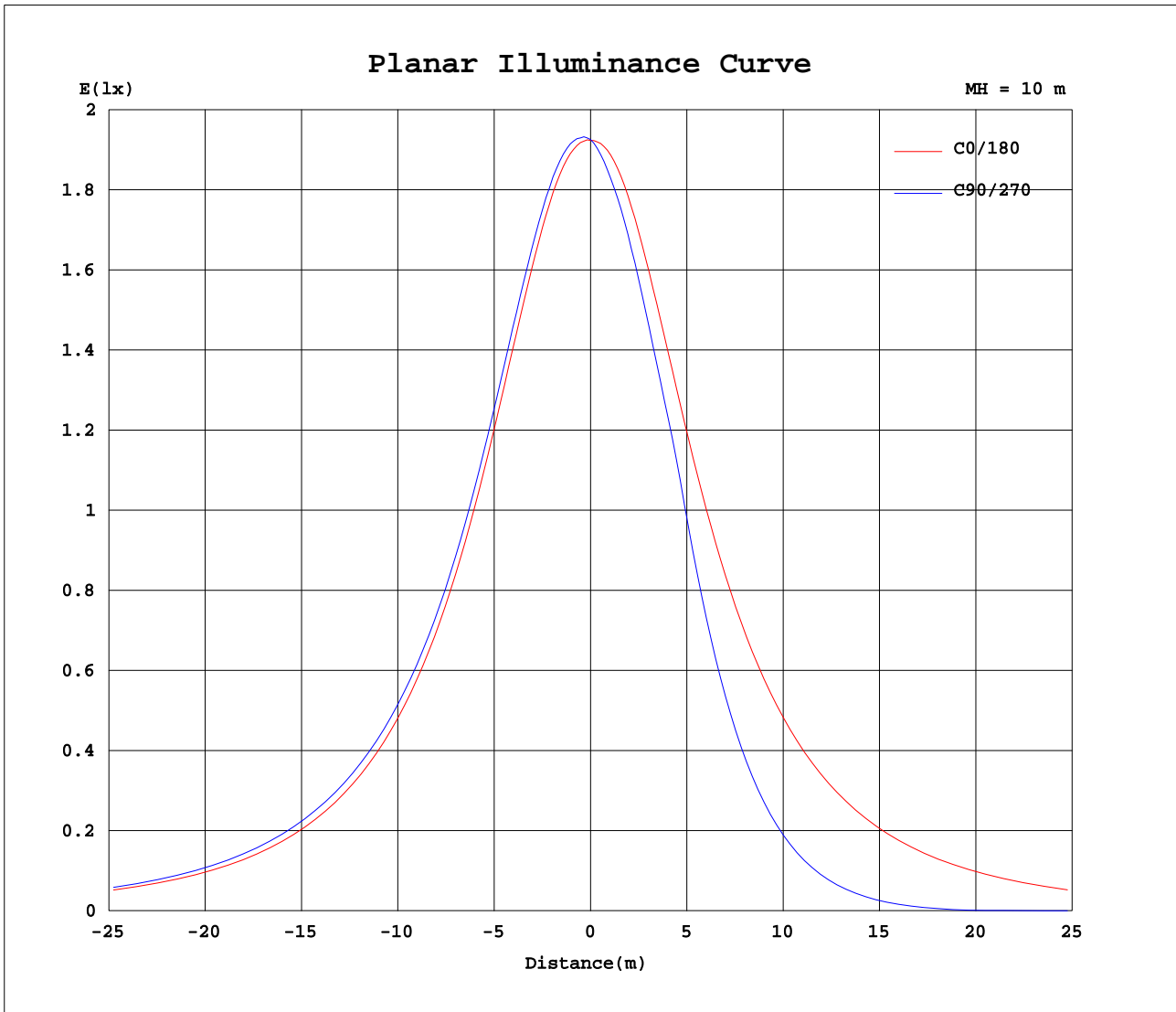
AvgL	cd/m2
L_0~180(65)av	11140
L_0~180(75)av	13199
L_0~180(85)av	19972
L_90~270(65)av	6240
L_90~270(75)av	8086
L_90~270(85)av	16607
L_45(65)av	6894
L_45(75)av	8513
L_45(85)av	18674

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 43.9%
Test Distance: 2.500m [K=1.0388]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	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	192	192	193	192	193	192	193	192	193	193	193	192	192	192	193	192	193	192	193
5	192	193	194	194	194	195	194	194	194	194	193	193	192	191	190	189	188	187	187
10	190	192	193	194	194	194	194	194	194	194	193	191	190	187	185	183	182	181	180
15	186	188	190	191	192	191	191	191	192	191	189	187	185	181	178	176	173	171	171
20	179	182	185	186	187	186	185	186	187	186	184	181	178	173	170	166	163	160	159
25	171	175	178	180	180	179	178	179	180	179	177	174	170	164	160	155	151	146	144
30	162	166	170	172	172	171	169	171	172	171	169	166	161	155	149	143	132	124	121
35	153	158	161	163	164	163	161	163	163	163	161	157	152	145	137	125	111	101	97.5
40	144	150	153	155	156	155	153	155	155	155	153	150	144	136	125	105	89.0	78.5	74.8
45	136	142	145	147	148	148	146	148	147	147	146	143	137	127	109	85.1	67.6	57.1	53.5
50	128	135	138	139	141	141	139	141	140	139	139	136	130	118	91.8	65.3	47.3	37.6	34.6
55	121	128	130	132	134	135	133	134	133	131	132	130	122	109	75.0	45.9	28.8	21.0	18.8
60	113	121	123	124	127	128	126	127	125	124	124	123	115	96.6	58.0	28.3	13.4	7.96	6.66
65	105	113	114	116	118	120	118	119	116	115	116	115	107	82.7	40.7	13.7	2.62	1.09	1.02
70	94.5	103	105	106	108	110	107	109	106	105	106	104	94.4	65.9	25.7	4.94	0.11	0.10	0.10
75	78.0	87.2	92.4	94.8	96.7	97.3	94.1	96.2	94.7	93.3	91.8	85.7	75.7	47.3	17.1	4.24	0.12	0.11	0.11
80	58.8	68.5	77.5	82.2	83.8	83.3	79.5	82.5	82.1	80.4	75.6	65.8	55.7	32.6	14.9	4.17	0.12	0.12	0.12
85	41.0	50.8	62.5	69.4	70.9	69.3	65.0	68.7	69.3	67.3	59.6	47.0	37.3	25.1	13.0	4.07	0.12	0.13	0.13
90	27.4	37.0	50.0	58.3	60.1	58.0	53.9	58.3	59.8	57.6	48.3	34.9	25.2	20.0	11.3	3.89	0.13	0.13	0.14
95	28.3	37.4	49.3	57.0	58.5	56.1	52.0	56.4	58.4	56.5	48.2	35.9	26.5	19.6	11.0	3.88	0.14	0.14	0.14
100	31.9	40.5	50.1	56.0	56.9	54.5	50.5	54.7	56.8	55.7	49.4	39.4	30.2	19.6	10.7	3.81	0.15	0.15	0.15
105	35.9	43.8	51.0	54.7	54.9	52.6	48.8	52.8	54.9	54.7	50.7	43.0	34.3	20.9	10.4	3.71	0.16	0.15	0.16
110	39.3	46.3	51.2	52.6	52.6	50.1	46.6	50.3	52.5	52.8	51.4	45.9	38.0	24.1	10.8	3.68	0.15	0.15	0.15
115	40.1	45.6	48.7	49.9	49.6	47.2	43.9	47.4	49.7	50.1	49.3	46.1	39.8	26.6	12.3	3.81	0.50	0.16	0.15
120	37.6	42.7	45.8	46.8	46.3	43.9	40.8	44.1	46.4	47.0	46.1	43.0	37.2	26.6	13.7	3.82	0.98	0.56	0.41
125	34.9	39.5	42.4	43.4	42.7	40.3	37.4	40.5	42.9	43.6	42.7	39.7	34.3	25.8	14.1	4.30	1.87	0.98	0.84
130	32.0	36.2	38.9	39.8	39.0	36.6	34.0	36.8	39.2	40.0	39.1	36.2	31.4	24.3	13.6	4.84	2.92	1.66	1.13
135	29.1	32.8	35.4	36.1	35.3	32.9	30.6	33.1	35.5	36.3	35.5	32.7	28.5	22.5	12.6	5.84	3.39	2.08	1.40
140	26.1	29.3	31.7	32.3	31.5	29.3	27.2	29.5	31.7	32.5	31.7	29.2	25.5	20.6	11.8	6.21	3.19	1.82	1.38
145	23.0	25.9	28.0	28.6	27.8	25.8	24.1	26.0	27.9	28.7	28.0	25.8	22.5	18.6	12.3	6.07	2.73	1.99	1.86
150	20.1	22.5	24.3	24.8	24.2	22.4	21.1	22.5	24.3	24.9	24.3	22.4	19.6	16.8	12.8	6.05	2.95	2.49	2.31
155	17.4	19.2	20.7	21.2	20.6	19.2	18.2	19.3	20.7	21.3	20.7	19.2	16.8	15.1	11.1	6.38	3.67	3.04	2.70
160	14.7	16.1	17.2	17.6	17.2	16.1	15.5	16.1	17.2	17.7	17.3	16.1	14.2	12.8	9.97	6.63	4.78	3.50	3.33
165	11.9	13.1	13.8	14.1	13.9	13.1	12.9	13.2	13.9	14.2	13.9	13.2	11.6	11.0	8.88	6.83	5.46	4.09	4.04
170	9.66	10.4	10.7	10.9	10.7	10.4	10.4	10.5	10.7	10.9	10.8	10.5	9.32	9.18	7.57	6.24	5.34	4.04	4.49
175	5.99	6.83	7.35	7.88	8.02	8.03	8.07	8.07	8.09	7.77	6.75	6.11	5.27	5.20	2.82	2.40	2.02	1.53	1.03
180	0.57	1.13	1.91	1.52	1.32	1.43	0.73	1.53	0.93	1.01	1.71	1.00	0.74	1.01	1.23	1.53	1.67	1.61	1.37

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1054A P:11.770W PF:0.9306 Freq:60.00Hz Lamp Flux:739.064x1 lm		
NAME: ASD-LVF25M-2D12BK/CH_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	192	193	193	193	192														
5	188	188	189	190	192														
10	181	182	184	186	188														
15	172	174	177	180	183														
20	161	164	168	172	175														
25	147	152	157	162	166														
30	126	135	145	151	157														
35	103	114	129	139	147														
40	80.2	92.0	109	128	137														
45	58.8	70.6	89.4	113	128														
50	39.1	50.2	69.7	97.1	119														
55	22.2	31.5	50.6	80.8	110														
60	8.73	15.5	33.0	64.1	100														
65	1.13	3.94	18.1	47.1	87.5														
70	0.11	0.43	7.47	31.7	72.1														
75	0.11	0.41	6.02	21.3	54.1														
80	0.12	0.43	5.92	18.1	37.9														
85	0.13	0.44	5.77	15.9	28.9														
90	0.14	0.45	5.62	14.2	22.9														
95	0.14	0.46	5.57	13.7	22.5														
100	0.15	0.46	5.49	13.4	22.8														
105	0.16	0.44	5.37	13.1	23.9														
110	0.15	0.41	5.28	13.4	27.0														
115	0.17	0.57	5.30	14.6	29.1														
120	0.60	1.19	5.16	15.8	28.7														
125	1.11	2.21	5.26	16.2	27.4														
130	1.82	3.42	5.03	15.6	25.7														
135	2.10	3.90	5.52	14.5	23.6														
140	2.03	3.45	6.44	11.7	21.4														
145	2.27	3.43	6.54	13.6	18.1														
150	2.98	3.81	6.16	12.8	15.7														
155	3.21	2.87	5.90	9.69	14.2														
160	3.22	4.18	5.35	7.89	10.9														
165	4.03	3.92	5.61	6.91	8.67														
170	4.66	3.92	5.07	6.02	7.06														
175	0.41	0.86	1.69	2.88	3.31														
180	0.93	1.14	1.33	1.40	1.32														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 01 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.9%
 Test Distance: 2.500m [K=1.0388]
 Remarks: