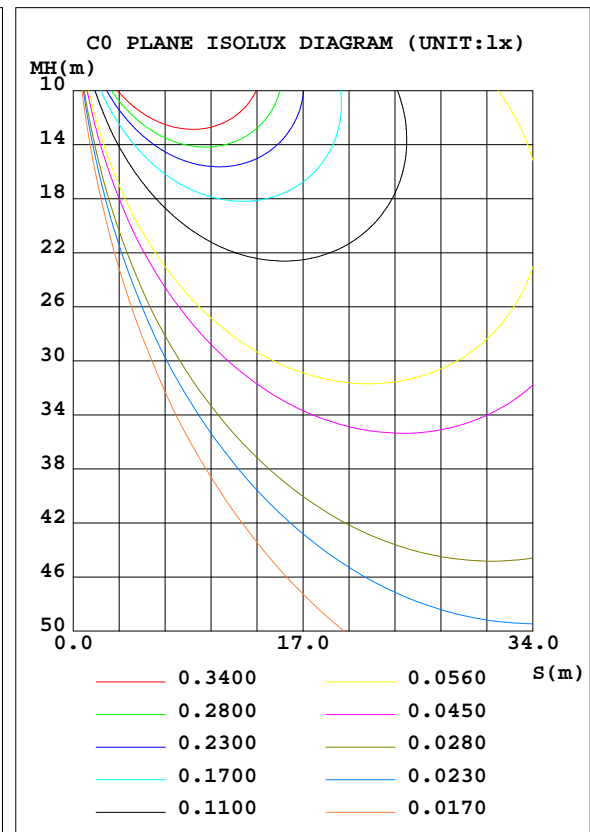
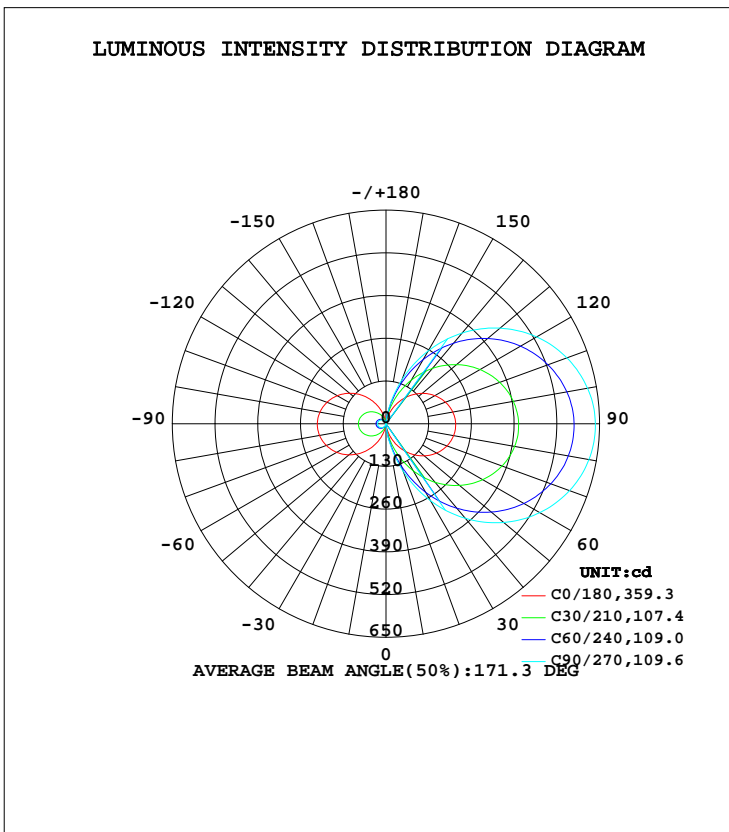


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.15 lm/W			
MODEL	ASD-LVF21-MV-24D25NK	I _{max} (cd)	637.4	S/MH(C0/180)	24.52
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	10.74
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2526.7	η UP, DN(C0-180)	42.9,43.8
NOMINAL FLUX(lm)	2526.73	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	6.6,6.7
LAMPS INSIDE	1	η up(%)	49.5	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	50.5	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 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	13.48	35.78	47.59	34.50	11.22	2.648	1.665	3.235	0- 10	0.8985	0.8985	0.04,0.04
20	46.32	116.9	154.0	114.5	42.60	9.499	5.768	10.00	10- 20	11.96	12.86	0.51,0.51
30	83.87	205.3	270.0	202.2	79.40	17.80	10.47	17.92	20- 30	40.90	53.76	2.13,2.13
40	120.0	288.6	375.6	284.9	115.3	26.33	14.94	25.75	30- 40	84.92	138.7	5.49,5.49
50	152.0	360.9	467.5	356.6	147.3	34.21	18.83	32.77	40- 50	137.5	276.2	10.9,10.9
60	178.3	419.1	540.5	414.7	173.8	40.92	21.93	38.57	50- 60	191.5	467.7	18.5,18.5
70	197.6	462.4	594.8	457.7	193.3	45.99	24.33	42.94	60- 70	239.6	707.3	28,28
80	209.1	488.5	627.2	484.0	205.4	49.09	25.72	45.47	70- 80	275.5	982.7	38.9,38.9
90	212.1	495.9	637.2	492.4	209.3	50.07	26.14	46.16	80- 90	294.4	1277	50.5,50.5
100	206.6	483.6	622.8	481.0	204.3	48.84	25.58	44.89	90-100	293.2	1570	62.1,62.1
110	192.6	454.1	586.3	451.4	191.2	45.63	24.03	41.74	100-110	272.2	1843	72.9,72.9
120	171.6	407.7	528.9	405.9	171.2	40.55	21.52	36.83	110-120	234.8	2077	82.2,82.2
130	144.1	346.8	453.0	346.3	144.7	33.96	18.31	30.80	120-130	186.1	2264	89.6,89.6
140	111.6	274.1	360.6	274.4	113.3	26.41	14.53	23.39	130-140	132.5	2396	94.8,94.8
150	75.51	191.5	255.0	193.4	78.21	18.84	10.22	14.78	140-150	80.85	2477	98,98
160	39.18	104.6	142.2	107.9	42.34	12.14	5.835	6.737	150-160	38.34	2515	99.5,99.5
170	9.254	27.24	39.48	30.81	11.64	4.148	2.208	2.143	160-170	10.84	2526	100,100
180	0.0611	0.0870	0.0308	0.0148	0.1008	0.0965	0.1075	0.1744	170-180	0.7178	2527	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 200.61 lm

%lum = 7.9%

%lamp = 7.9%

Conical surface Flux(120deg): 467.7 lm

%lum = 18.5%

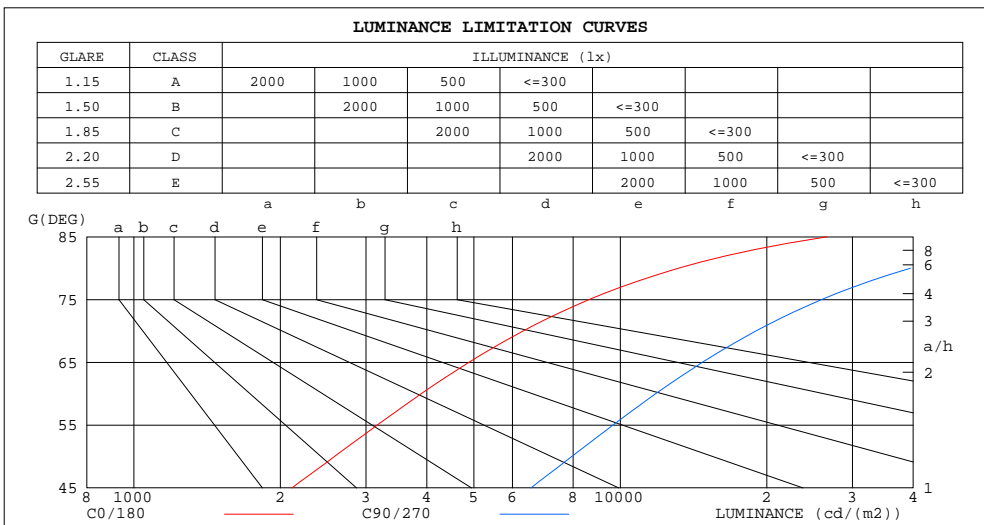
%lamp = 18.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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	26553	79637
80	13157	39471
75	8621	25913
70	6313	19007
65	4883	14745
60	3896	11814
55	3163	9655
50	2585	7949
45	2112	6546

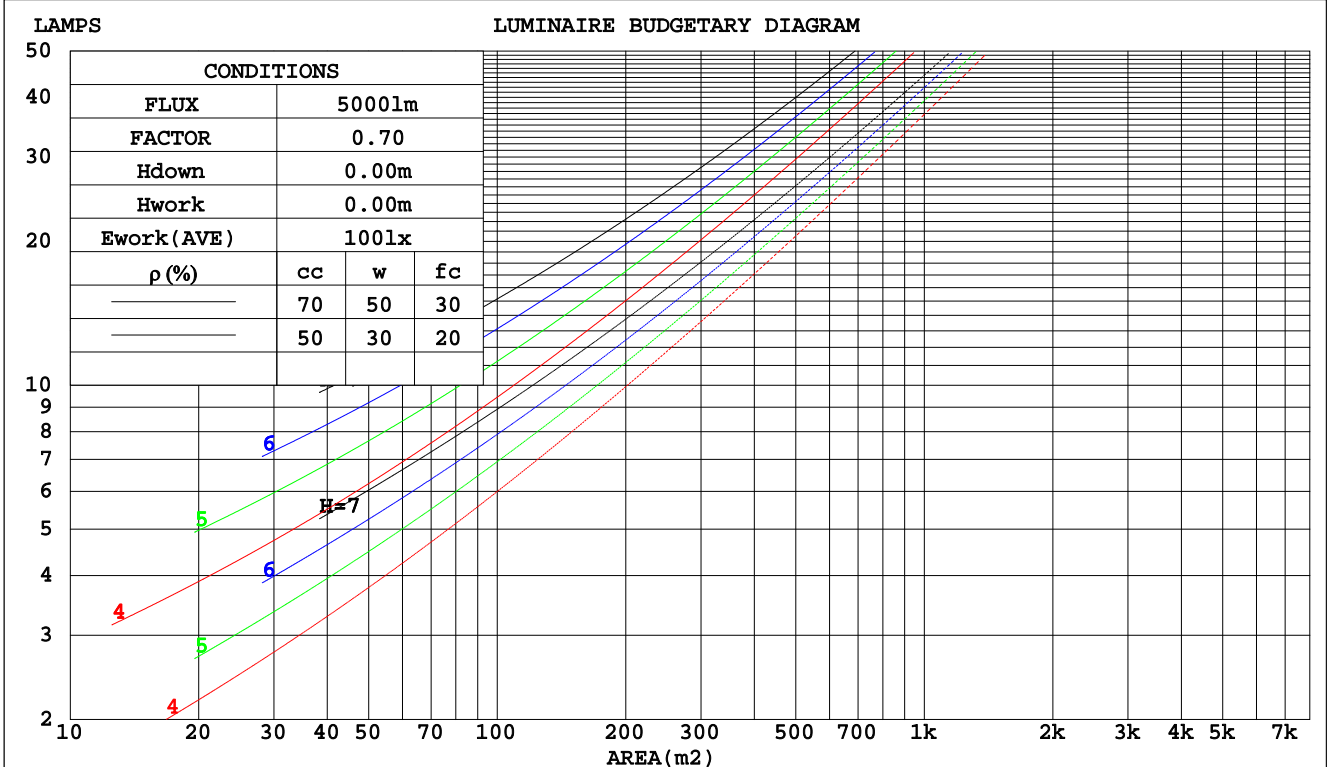
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.85	.79	.73	.78	.72	.67	.64	.60	.56	.52	.49	.46	.41	.38	.36	.30
2.0	.71	.62	.55	.65	.57	.51	.53	.47	.42	.42	.38	.34	.32	.29	.26	.21
3.0	.60	.51	.43	.55	.46	.39	.45	.38	.32	.35	.30	.26	.27	.23	.19	.15
4.0	.52	.42	.35	.47	.39	.32	.39	.32	.26	.30	.25	.20	.23	.18	.15	.11
5.0	.46	.36	.29	.42	.33	.26	.34	.27	.21	.27	.21	.17	.20	.15	.12	.08
6.0	.40	.31	.24	.37	.28	.22	.30	.23	.18	.23	.18	.14	.18	.13	.10	.07
7.0	.36	.27	.20	.33	.24	.19	.27	.20	.15	.21	.16	.12	.16	.11	.08	.05
8.0	.32	.23	.17	.29	.21	.16	.24	.18	.13	.19	.14	.10	.14	.10	.07	.04
9.0	.29	.21	.15	.27	.19	.14	.22	.16	.11	.17	.12	.09	.13	.09	.06	.04
10.0	.27	.19	.13	.24	.17	.12	.20	.14	.10	.16	.11	.07	.12	.08	.05	.03



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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	.445	.253	.080	.422	.241	.077	.381	.218	.070	.342	.197	.063	.307	.178	.057	
2.0	.365	.200	.061	.345	.190	.059	.306	.170	.053	.271	.152	.048	.238	.135	.043	
3.0	.315	.168	.050	.297	.159	.048	.261	.142	.043	.229	.125	.038	.199	.110	.034	
4.0	.278	.145	.043	.261	.137	.040	.229	.122	.036	.199	.107	.032	.171	.093	.028	
5.0	.250	.127	.037	.234	.120	.035	.204	.106	.031	.177	.093	.028	.151	.081	.024	
6.0	.227	.114	.033	.212	.107	.031	.185	.095	.028	.159	.083	.024	.135	.071	.021	
7.0	.207	.103	.029	.194	.097	.028	.169	.085	.025	.145	.074	.022	.123	.064	.019	
8.0	.191	.093	.026	.179	.088	.025	.155	.078	.022	.133	.068	.019	.113	.058	.017	
9.0	.177	.086	.024	.166	.081	.023	.144	.071	.020	.123	.062	.018	.104	.053	.015	
10.0	.165	.079	.022	.154	.075	.021	.134	.066	.018	.115	.057	.016	.097	.049	.014	

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	.567	.567	.567	.485	.485	.485	.331	.331	.331	.190	.190	.190	.061	.061	.061	
1.0	.570	.535	.504	.487	.459	.433	.333	.316	.300	.192	.183	.174	.061	.059	.056	
2.0	.564	.514	.472	.483	.442	.408	.331	.306	.284	.191	.178	.167	.061	.058	.054	
3.0	.558	.499	.452	.478	.431	.392	.328	.299	.275	.190	.175	.162	.061	.057	.053	
4.0	.550	.488	.440	.472	.422	.382	.325	.294	.269	.188	.172	.159	.060	.056	.052	
5.0	.543	.479	.432	.466	.414	.376	.321	.289	.265	.186	.170	.157	.060	.055	.052	
6.0	.535	.472	.426	.460	.409	.371	.317	.286	.262	.184	.168	.156	.059	.055	.052	
7.0	.528	.466	.422	.454	.404	.368	.314	.283	.260	.182	.167	.155	.059	.055	.051	
8.0	.522	.460	.418	.449	.399	.365	.311	.280	.259	.181	.165	.154	.058	.054	.051	
9.0	.515	.456	.416	.444	.396	.363	.308	.278	.258	.179	.164	.154	.058	.054	.051	
10.0	.510	.452	.414	.439	.393	.361	.305	.276	.257	.178	.163	.153	.058	.054	.051	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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	16.3	17.4	17.1	18.3	19.5	20.5	21.7	21.4	22.6	23.7
3H	19.3	20.3	20.2	21.2	22.4	24.4	25.4	25.2	26.3	27.5
4H	20.9	21.9	21.8	22.9	24.1	26.5	27.4	27.4	28.4	29.6
6H	22.8	23.7	23.7	24.6	25.9	28.7	29.7	29.6	30.6	31.8
8H	23.8	24.7	24.7	25.6	26.9	30.0	30.9	30.9	31.8	33.1
12H	24.9	25.8	25.8	26.7	28.0	31.4	32.2	32.3	33.2	34.4
4H 2H	18.7	19.7	19.6	20.6	21.9	21.2	22.2	22.1	23.1	24.4
3H	21.7	22.6	22.6	23.5	24.8	25.3	26.1	26.2	27.1	28.3
4H	23.4	24.2	24.3	25.2	26.4	27.5	28.3	28.5	29.3	30.6
6H	25.2	25.9	26.2	26.9	28.2	30.0	30.7	31.0	31.7	33.0
8H	26.2	26.8	27.1	27.8	29.1	31.4	32.0	32.3	33.0	34.3
12H	27.3	27.9	28.2	28.9	30.2	32.9	33.5	33.9	34.5	35.8
8H 4H	25.1	25.8	26.1	26.7	28.0	28.0	28.7	29.0	29.7	31.0
6H	27.2	27.7	28.2	28.8	30.1	30.8	31.4	31.8	32.4	33.7
8H	28.3	28.8	29.3	29.8	31.2	32.4	32.9	33.4	33.9	35.2
12H	29.5	30.0	30.6	31.0	32.4	34.2	34.6	35.2	35.6	37.0
12H 4H	25.7	26.3	26.6	27.3	28.6	28.1	28.7	29.1	29.7	31.0
6H	27.9	28.5	28.9	29.5	30.8	31.0	31.5	32.0	32.5	33.9
8H	29.2	29.7	30.2	30.7	32.1	32.7	33.1	33.7	34.2	35.5
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 / - 0.4				

CIE Pub.117, 2527 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.2)
 Area: 0.0915 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

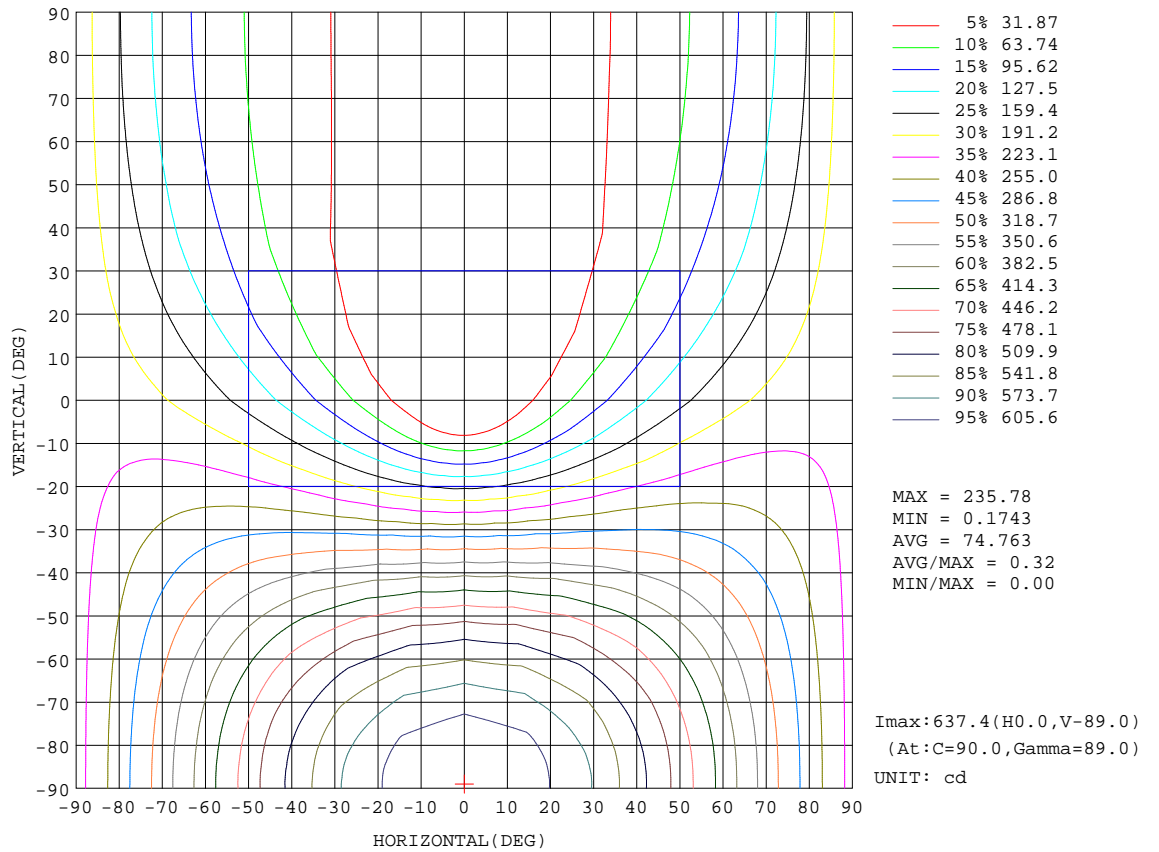
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	33	20	13	31	19	12	28	17	11	4
0.80	42	27	18	39	26	17	34	23	16	6
1.00	49	34	24	45	32	23	39	30	20	9
1.25	56	41	30	52	38	29	44	33	25	12
1.50	61	46	36	56	43	34	48	37	29	14
2.00	69	55	45	64	51	42	54	44	36	18
2.50	74	61	51	69	57	48	58	49	41	21
3.00	79	67	57	72	62	53	61	53	46	24
4.00	84	74	65	77	68	61	65	58	52	28
5.00	88	79	71	81	73	66	68	62	56	31
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: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

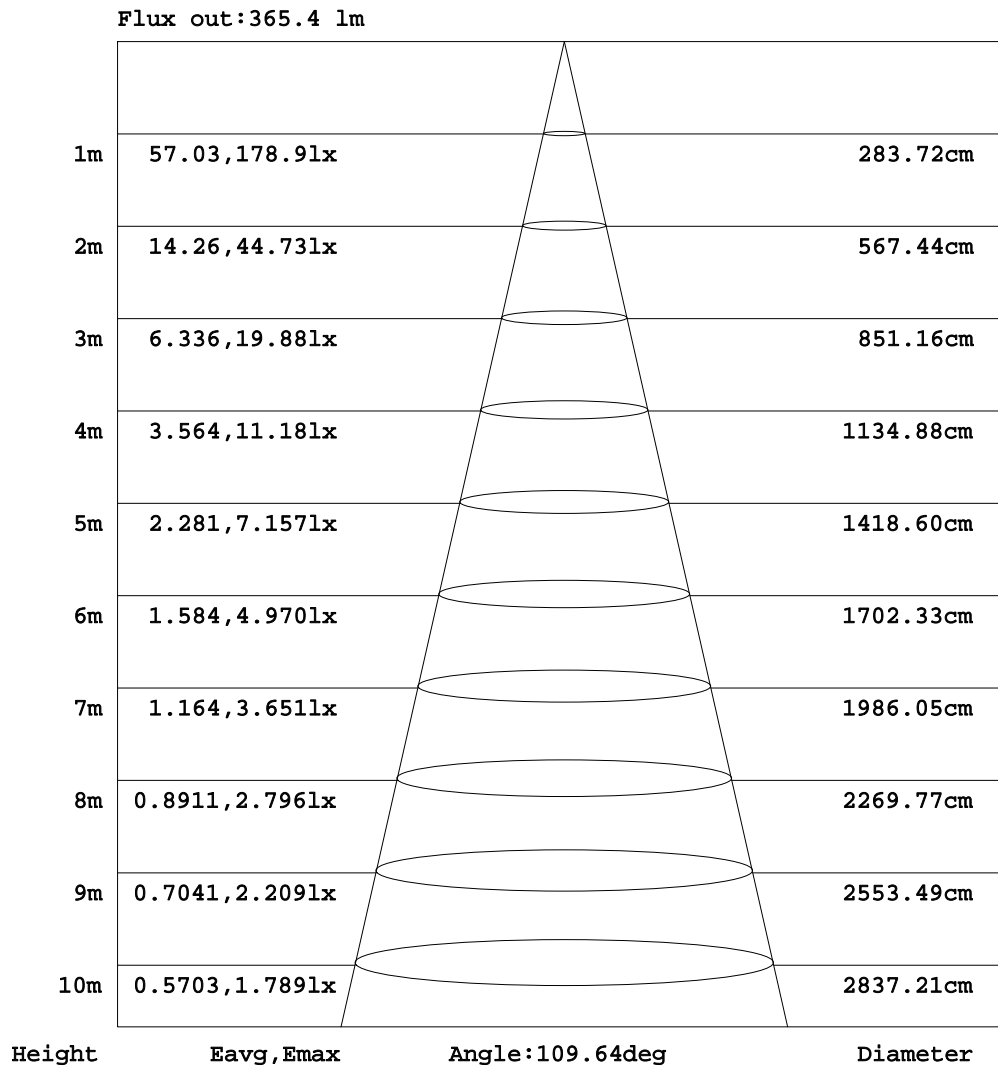


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

AAI Figure

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



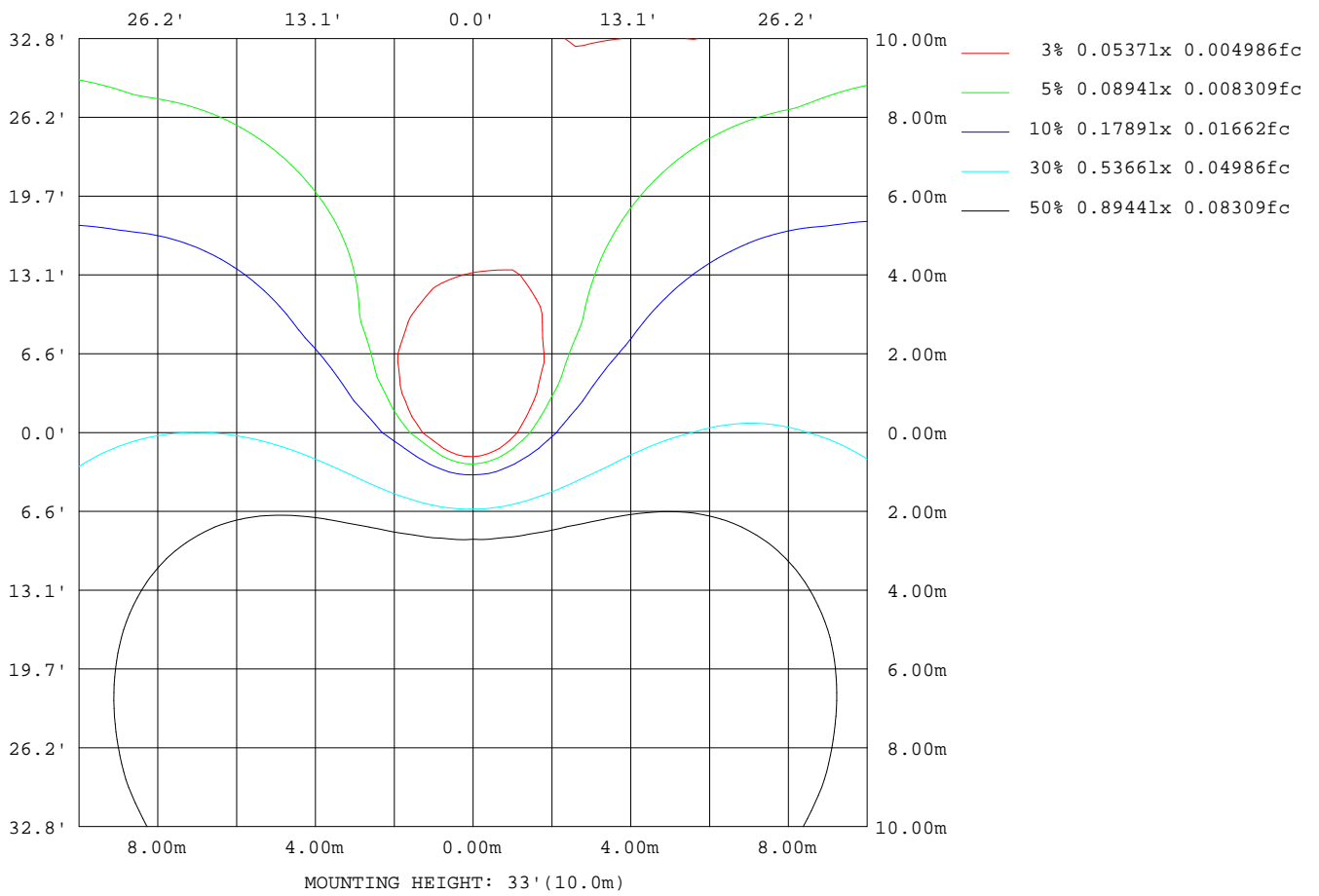
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance:2.500m [K=1.0388]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_5000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

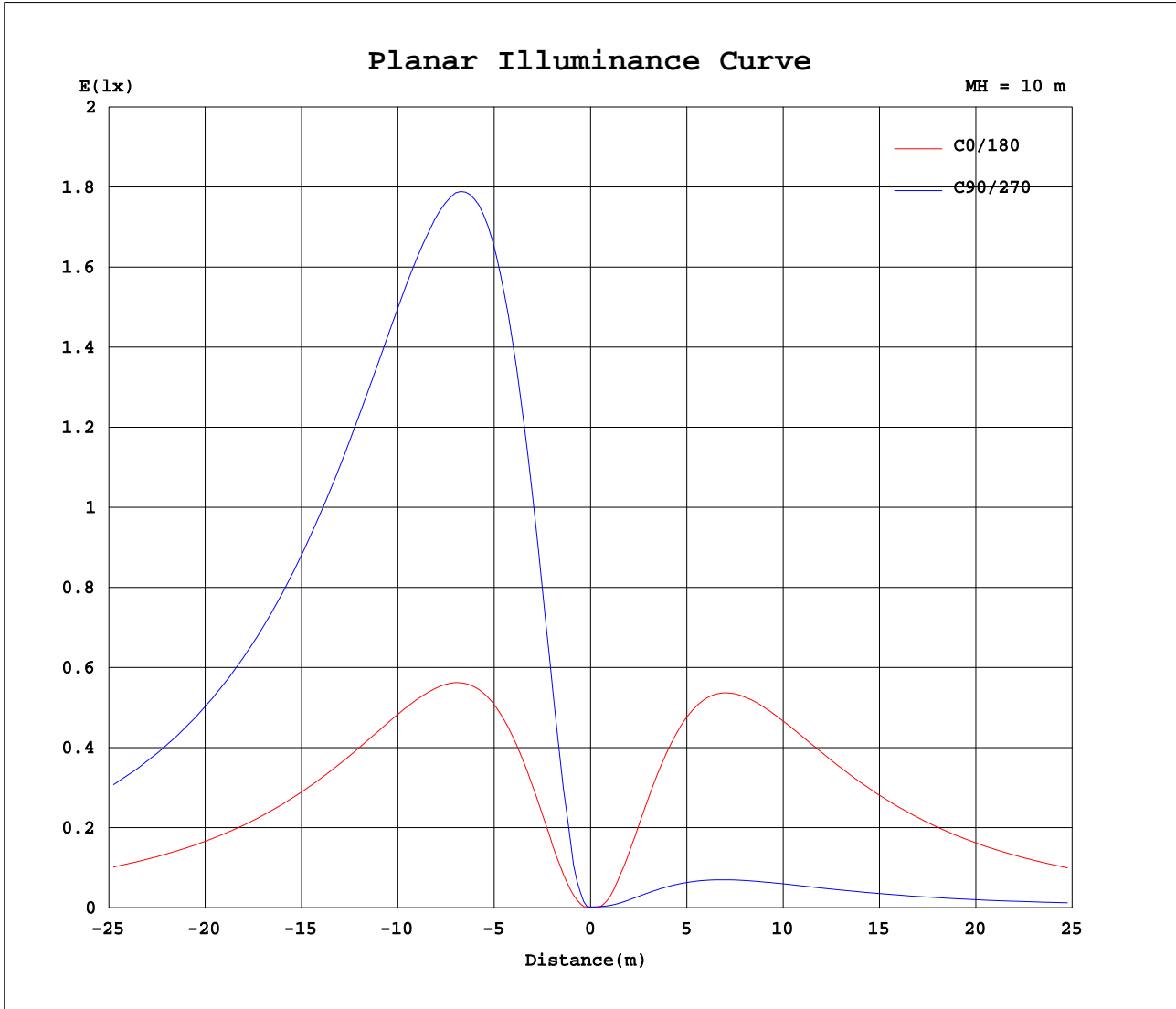
AvgL	cd/m2
L_0~180(65)av	4827
L_0~180(75)av	8542
L_0~180(85)av	26345
L_90~270(65)av	7673
L_90~270(75)av	13488
L_90~270(85)av	41452
L_45(65)av	6245
L_45(75)av	11008
L_45(85)av	33893

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 40.8%
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: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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	0.17	0.18	0.18	0.18	0.19	0.21	0.23	0.27	0.30	0.34	0.37	0.39	0.17	0.18	0.18	0.18	0.19	0.21	0.23
5	3.20	4.79	6.60	8.35	9.66	10.5	10.7	10.3	9.19	7.66	5.89	4.12	1.94	1.10	0.78	0.68	0.69	0.56	0.52
10	13.5	20.5	28.1	35.8	42.0	46.3	47.6	45.8	41.1	34.5	26.9	19.5	11.2	6.62	3.86	2.65	2.45	2.03	1.66
15	28.7	42.6	58.5	73.9	86.9	95.3	97.8	94.5	85.4	72.1	56.6	41.1	25.5	15.5	9.10	5.73	4.68	4.02	3.57
20	46.3	68.2	93.0	117	137	150	154	149	135	115	90.6	66.3	42.6	26.2	15.5	9.50	7.15	6.18	5.77
25	65.1	95.1	129	161	188	206	212	205	186	159	126	93.0	60.8	38.0	22.5	13.6	9.68	8.35	8.11
30	83.9	122	165	205	240	263	270	261	238	202	161	120	79.4	50.0	29.9	17.8	12.3	10.5	10.5
35	102	148	199	249	289	316	325	314	287	245	196	146	97.7	62.0	37.3	22.1	14.8	12.5	12.7
40	120	173	233	289	336	366	376	364	333	285	229	171	115	73.7	44.5	26.3	17.2	14.4	14.9
45	137	197	264	327	379	412	424	411	376	322	259	194	132	84.8	51.4	30.4	19.5	16.1	16.9
50	152	219	292	361	418	455	468	454	414	357	287	216	147	95.0	57.9	34.2	21.6	17.7	18.8
55	166	239	318	392	454	493	507	491	450	387	313	236	161	104	63.8	37.7	23.7	19.2	20.5
60	178	256	340	419	485	527	540	525	481	415	336	253	174	113	69.1	40.9	25.4	20.5	21.9
65	189	271	360	443	511	556	570	554	508	438	355	268	184	120	73.6	43.7	27.0	21.6	23.2
70	198	283	376	462	534	579	595	578	530	458	371	281	193	126	77.4	46.0	28.3	22.5	24.3
75	204	293	388	478	551	598	614	596	547	473	383	290	200	130	80.4	47.8	29.4	23.3	25.2
80	209	300	397	488	563	612	627	609	559	484	393	297	205	134	82.6	49.1	30.1	23.8	25.7
85	212	304	403	495	570	619	635	617	567	491	398	302	208	136	83.9	49.9	30.6	24.0	26.1
90	212	304	404	496	572	621	637	619	569	492	400	303	209	136	84.2	50.1	30.7	24.1	26.1
95	210	302	400	492	568	617	633	615	565	489	397	301	208	136	83.7	49.7	30.5	24.0	26.0
100	207	297	394	484	559	607	623	606	556	481	390	295	204	133	82.3	48.8	30.0	23.6	25.6
105	201	288	383	471	544	591	607	590	541	468	380	288	199	130	79.9	47.5	29.2	23.1	24.9
110	193	277	369	454	525	571	586	569	522	451	366	277	191	125	76.7	45.6	28.1	22.3	24.0
115	183	264	351	433	501	545	560	543	498	431	349	264	182	119	72.9	43.3	26.8	21.3	22.9
120	172	247	330	408	473	515	529	514	471	406	329	249	171	111	68.3	40.6	25.2	20.2	21.5
125	159	229	307	379	440	480	493	479	439	378	306	231	159	103	63.0	37.4	23.4	18.9	20.0
130	144	209	280	347	404	440	453	440	403	346	280	211	145	93.7	57.2	34.0	21.5	17.4	18.3
135	128	187	251	312	364	397	409	397	363	312	252	190	130	83.6	50.9	30.3	19.4	15.9	16.5
140	112	163	220	274	320	350	361	350	320	274	221	166	113	73.1	44.3	26.4	17.1	14.2	14.5
145	93.8	138	187	234	273	300	309	300	274	235	189	142	96.1	62.4	37.8	22.6	14.9	12.5	12.4
150	75.5	112	153	191	225	247	255	248	226	193	155	116	78.2	52.0	31.5	18.8	12.6	10.6	10.2
155	57.1	85.3	117	148	175	193	199	193	176	151	121	90.1	60.2	42.5	25.8	15.5	10.4	8.78	8.02
160	39.2	59.1	82.1	105	124	137	142	138	126	108	86.5	64.2	42.3	33.2	20.1	12.1	8.18	6.90	5.83
165	22.6	34.7	48.9	63.0	75.3	84.3	87.8	86.1	78.1	66.8	53.5	39.8	25.7	22.6	13.8	8.34	5.61	4.82	3.92
170	9.25	14.3	20.7	27.2	33.1	37.4	39.5	38.9	35.9	30.8	24.9	18.6	11.6	11.1	6.82	4.15	2.93	2.70	2.21
175	1.42	2.21	3.30	5.37	6.65	7.10	8.12	8.34	7.57	6.75	5.99	4.08	2.37	2.39	1.53	1.06	0.89	0.86	0.72
180	0.06	0.06	0.08	0.09	0.06	0.05	0.03	0.02	0.01	0.01	0.03	0.04	0.10	0.10	0.10	0.10	0.10	0.10	0.11

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2047A P:24.260W PF:0.9874 Freq:60.00Hz Lamp Flux:2526.73x1 lm		
NAME: ASD-LVF21-MV-24D25NK_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	0.27	0.30	0.34	0.37	0.39														
5	0.74	0.94	1.15	1.56	2.31														
10	2.04	2.52	3.23	5.11	8.79														
15	3.70	4.44	6.29	10.7	18.3														
20	5.62	6.61	10.0	17.4	29.6														
25	7.67	8.86	13.9	24.5	41.7														
30	9.72	11.2	17.9	31.8	53.9														
35	11.7	13.4	21.9	39.1	66.0														
40	13.6	15.5	25.7	46.1	77.7														
45	15.3	17.5	29.3	52.7	88.7														
50	16.9	19.3	32.8	58.8	98.7														
55	18.3	21.0	35.9	64.3	108														
60	19.5	22.5	38.6	69.1	116														
65	20.6	23.8	40.9	73.4	123														
70	21.6	24.9	42.9	76.8	128														
75	22.3	25.8	44.5	79.5	132														
80	22.8	26.4	45.5	81.3	136														
85	23.0	26.7	46.0	82.4	137														
90	23.1	26.8	46.2	82.5	138														
95	23.1	26.6	45.8	81.8	136														
100	22.7	26.2	44.9	80.3	134														
105	22.2	25.4	43.5	77.9	130														
110	21.4	24.4	41.7	74.6	125														
115	20.4	23.2	39.5	70.8	118														
120	19.2	21.8	36.8	66.1	111														
125	17.9	20.1	34.0	61.0	103														
130	16.5	18.3	30.8	55.4	93.5														
135	14.9	16.4	27.3	49.1	83.2														
140	13.2	14.3	23.4	42.2	71.7														
145	11.4	12.1	19.1	34.7	59.2														
150	9.52	9.86	14.8	26.6	45.9														
155	7.61	7.63	10.5	18.2	32.0														
160	5.58	5.55	6.74	11.0	19.4														
165	3.49	3.56	4.10	5.72	9.64														
170	1.68	1.76	2.14	2.46	3.64														
175	0.50	0.60	0.85	0.92	1.17														
180	0.12	0.14	0.17	0.21	0.25														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.8%
 Test Distance: 2.500m [K=1.0388]
 Remarks: