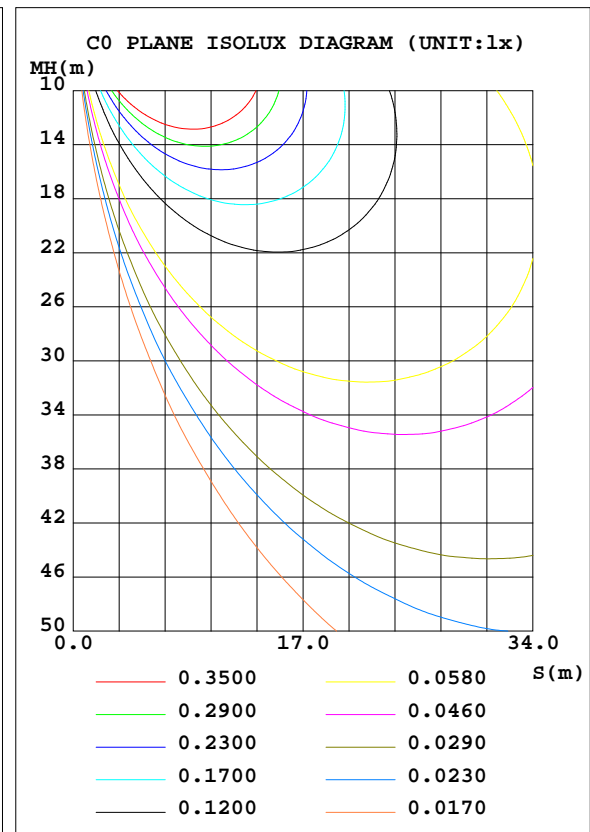
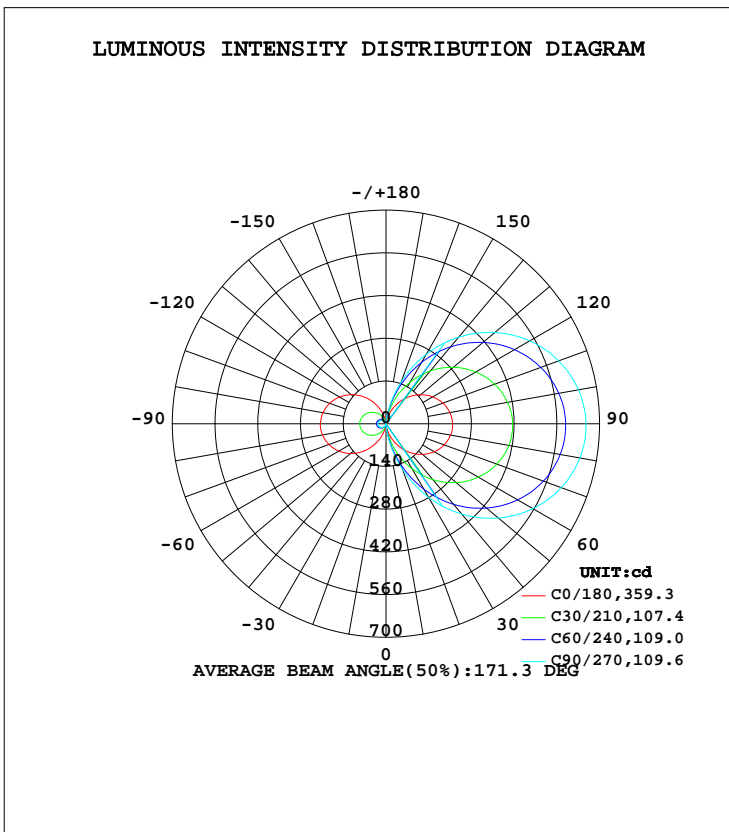


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.45 lm/W			
MODEL	ASD-LVF21-MV-24D25NK	I _{max} (cd)	655.4	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)	2598.0	η UP, DN(C0-180)	42.9,43.8
NOMINAL FLUX(lm)	2598.05	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	13.88	36.77	48.84	35.42	11.46	2.712	1.712	3.330	0- 10	0.9234	0.9234	0.04,0.04
20	47.66	120.1	158.6	117.7	43.65	9.749	5.922	10.31	10- 20	12.29	13.22	0.51,0.51
30	86.16	211.3	277.5	207.7	81.41	18.26	10.76	18.45	20- 30	42.04	55.26	2.13,2.13
40	123.3	297.2	386.8	293.1	118.7	26.97	15.31	26.53	30- 40	87.29	142.5	5.49,5.49
50	156.3	371.6	480.6	366.6	151.6	35.10	19.31	33.71	40- 50	141.4	284.0	10.9,10.9
60	183.2	431.4	556.1	426.5	178.8	41.94	22.50	39.70	50- 60	196.9	480.9	18.5,18.5
70	202.9	476.0	611.2	470.9	199.1	47.10	24.96	44.14	60- 70	246.3	727.2	28,28
80	215.0	502.4	645.3	498.0	211.5	50.40	26.38	46.80	70- 80	283.3	1011	38.9,38.9
90	218.5	510.0	655.0	506.3	215.2	51.40	26.80	47.48	80- 90	302.8	1313	50.5,50.5
100	212.7	497.5	640.5	494.2	209.8	50.22	26.25	46.16	90-100	301.6	1615	62.2,62.2
110	198.5	467.3	602.2	464.1	196.4	46.82	24.64	42.92	100-110	279.9	1895	72.9,72.9
120	176.7	418.9	543.4	417.7	175.7	41.65	22.05	37.89	110-120	241.4	2136	82.2,82.2
130	148.6	356.8	465.4	356.2	148.7	34.86	18.76	31.68	120-130	191.3	2327	89.6,89.6
140	114.9	282.0	370.3	282.2	116.2	27.10	14.91	24.06	130-140	136.2	2464	94.8,94.8
150	77.60	197.0	262.1	198.9	80.28	19.35	10.48	15.20	140-150	83.10	2547	98,98
160	40.20	107.7	146.3	111.0	43.51	12.45	5.978	6.928	150-160	39.41	2586	99.5,99.5
170	9.523	28.10	40.72	31.81	11.99	4.263	2.266	2.197	160-170	11.15	2597	100,100
180	0.0643	0.0898	0.0339	0.0115	0.1031	0.1010	0.1099	0.1792	170-180	0.7408	2598	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 206.23 lm

%lum = 7.9%

%lamp = 7.9%

Conical surface Flux(120deg): 480.86 lm

%lum = 18.5%

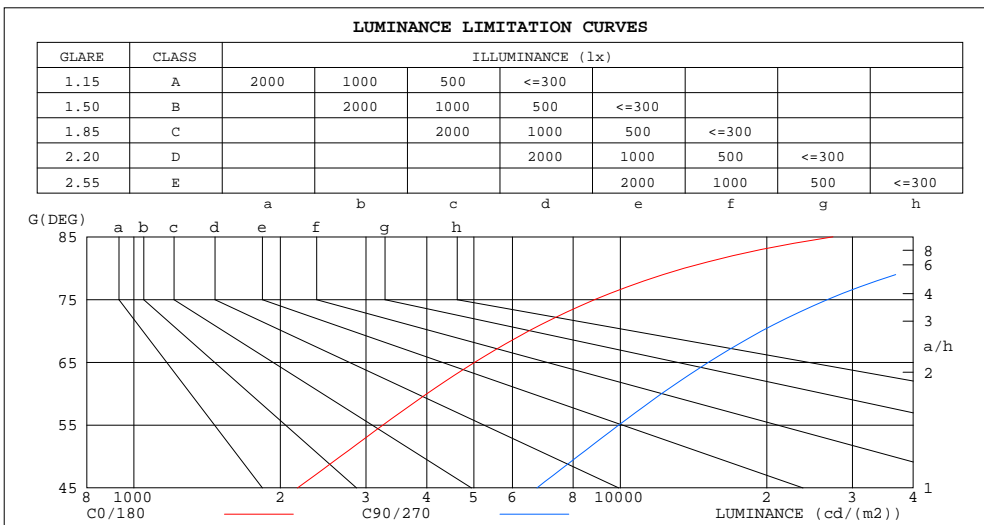
%lamp = 18.5%

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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	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	27362	81959
80	13533	40611
75	8862	26650
70	6482	19530
65	5017	15173
60	4004	12155
55	3251	9925
50	2657	8171
45	2170	6739

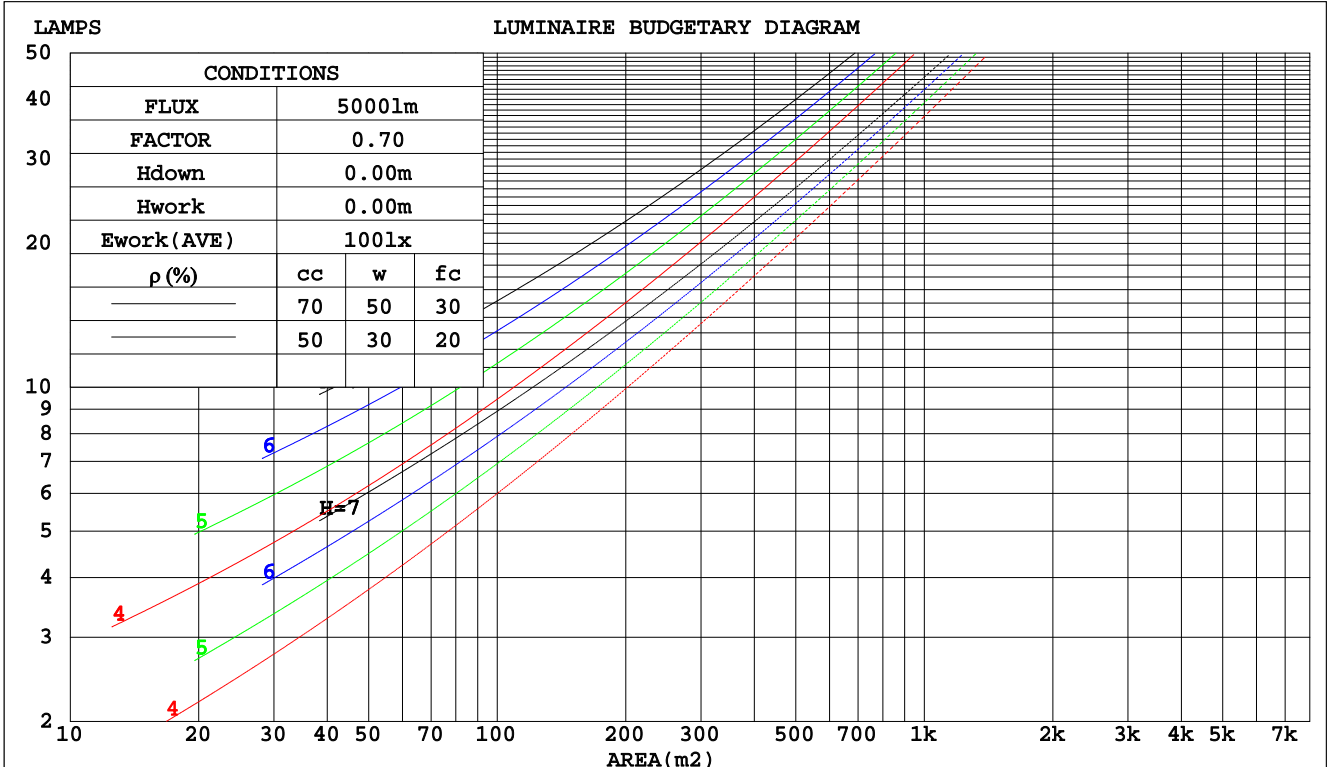
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	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	1.07	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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	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	.423	.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	.205	.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	.408	.371	.317	.286	.262	.184	.168	.156	.059	.055	.052	
7.0	.528	.466	.422	.454	.404	.367	.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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm										
NAME: ASD-LVF21-MV-24D25NK_4000K					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	16.4	17.5	17.2	18.4	19.6	20.6	21.8	21.5	22.7	23.8
3H	19.4	20.4	20.3	21.3	22.5	24.5	25.5	25.3	26.4	27.6
4H	21.0	22.0	21.9	23.0	24.2	26.6	27.5	27.5	28.5	29.7
6H	22.9	23.8	23.8	24.7	26.0	28.8	29.8	29.7	30.7	31.9
8H	23.9	24.8	24.8	25.7	27.0	30.1	31.0	31.0	31.9	33.2
12H	25.0	25.9	25.9	26.8	28.1	31.5	32.3	32.4	33.3	34.5
4H 2H	18.8	19.8	19.7	20.7	22.0	21.3	22.3	22.2	23.2	24.5
3H	21.8	22.7	22.7	23.6	24.9	25.4	26.2	26.3	27.2	28.4
4H	23.5	24.3	24.4	25.3	26.5	27.6	28.4	28.6	29.4	30.7
6H	25.3	26.0	26.3	27.0	28.3	30.1	30.8	31.1	31.8	33.1
8H	26.3	26.9	27.2	27.9	29.2	31.5	32.1	32.4	33.1	34.4
12H	27.4	28.0	28.3	29.0	30.3	33.0	33.6	34.0	34.6	35.9
8H 4H	25.2	25.9	26.2	26.8	28.1	28.1	28.8	29.1	29.8	31.1
6H	27.3	27.8	28.3	28.9	30.2	30.9	31.5	31.9	32.5	33.8
8H	28.4	28.9	29.4	29.9	31.3	32.5	33.0	33.5	34.0	35.3
12H	29.6	30.1	30.7	31.1	32.5	34.2	34.7	35.3	35.7	37.1
12H 4H	25.8	26.4	26.7	27.4	28.7	28.2	28.8	29.2	29.8	31.1
6H	28.0	28.6	29.0	29.6	30.9	31.1	31.6	32.1	32.6	34.0
8H	29.3	29.8	30.3	30.8	32.2	32.8	33.2	33.8	34.3	35.6
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, 2598 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.3)
 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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

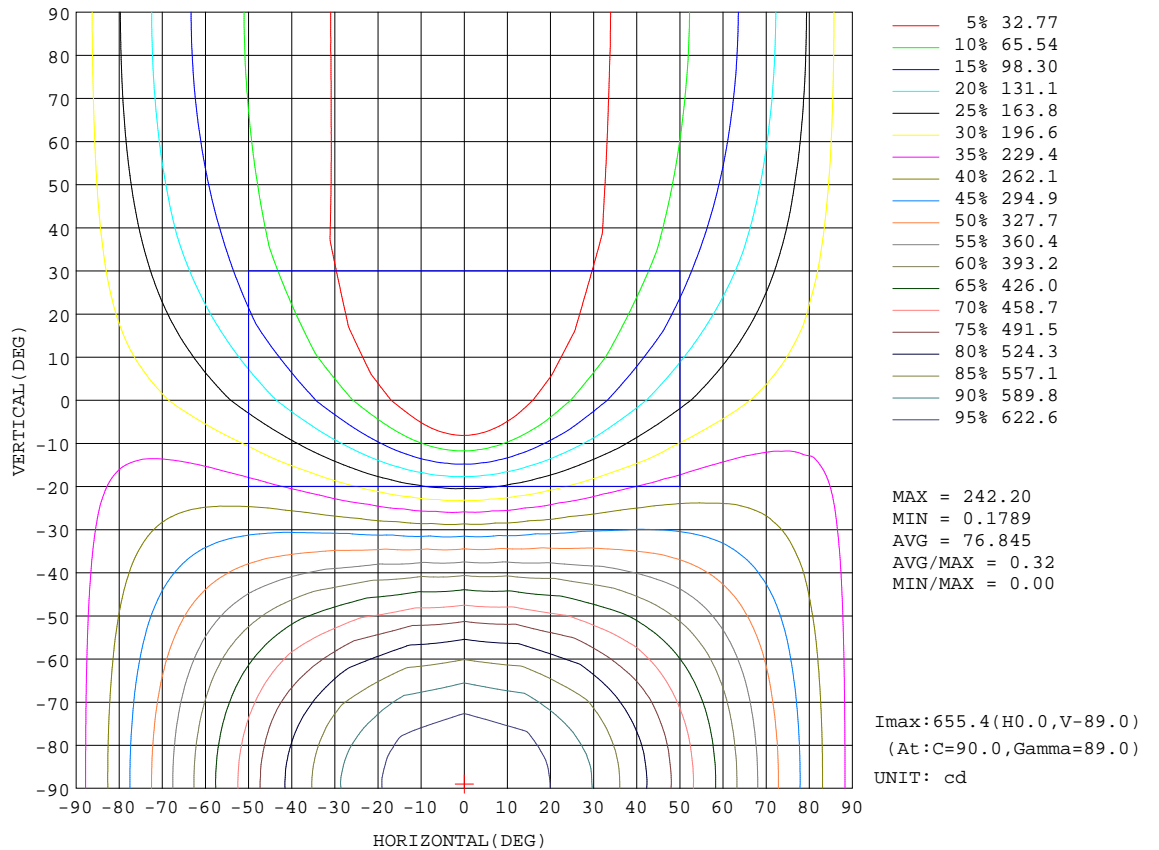
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	33	20	13	31	19	12	28	17	11	4
0.80	42	27	18	39	26	17	34	23	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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



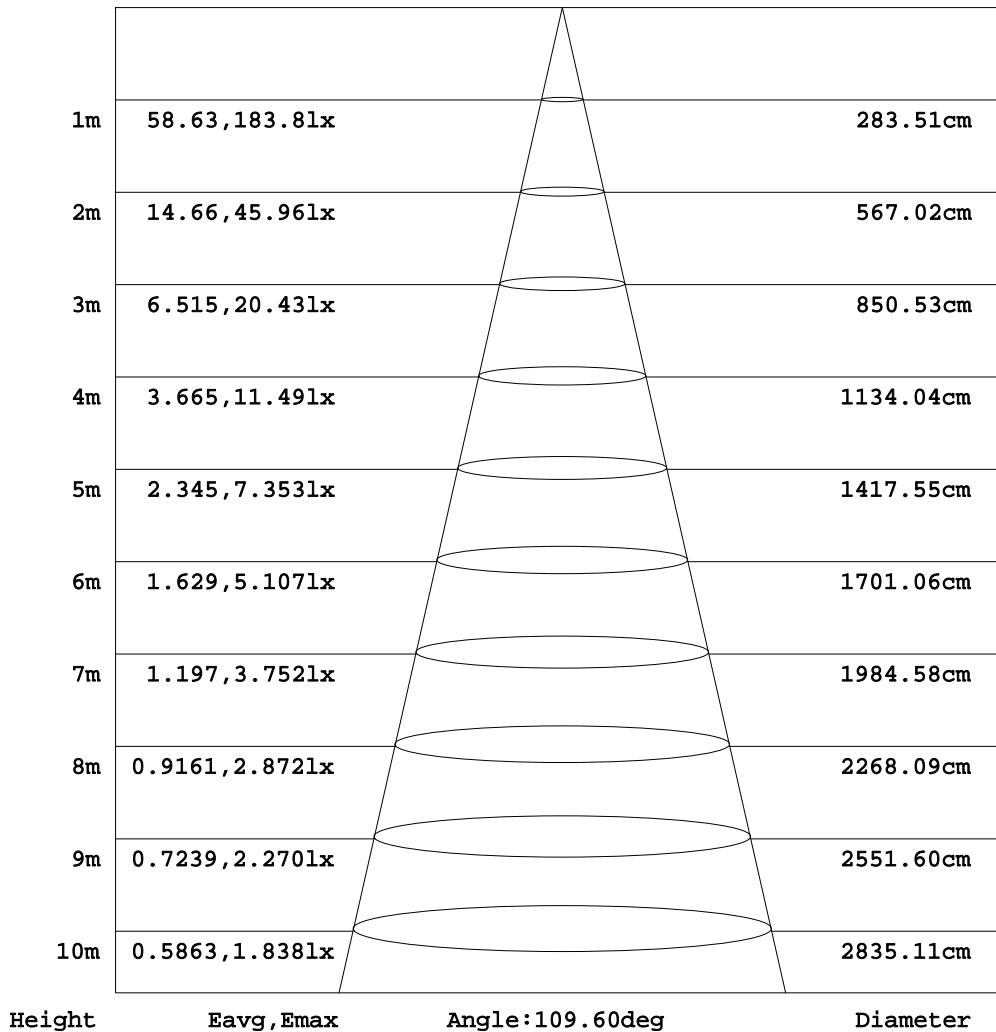
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 25 September 2023

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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:375.7 lm



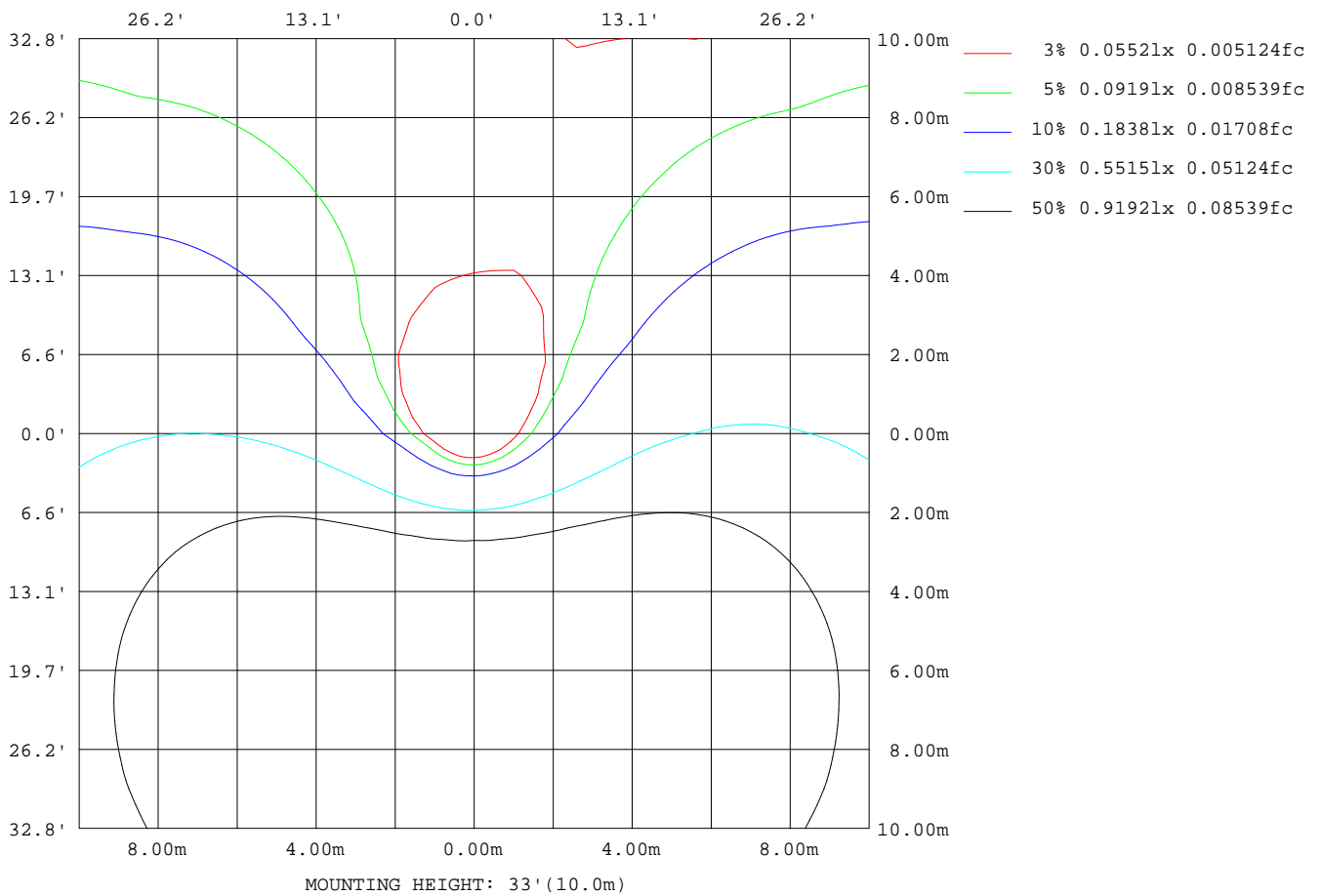
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date: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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	TYPE:LED	WEIGHT:
SPEC.:N/A	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

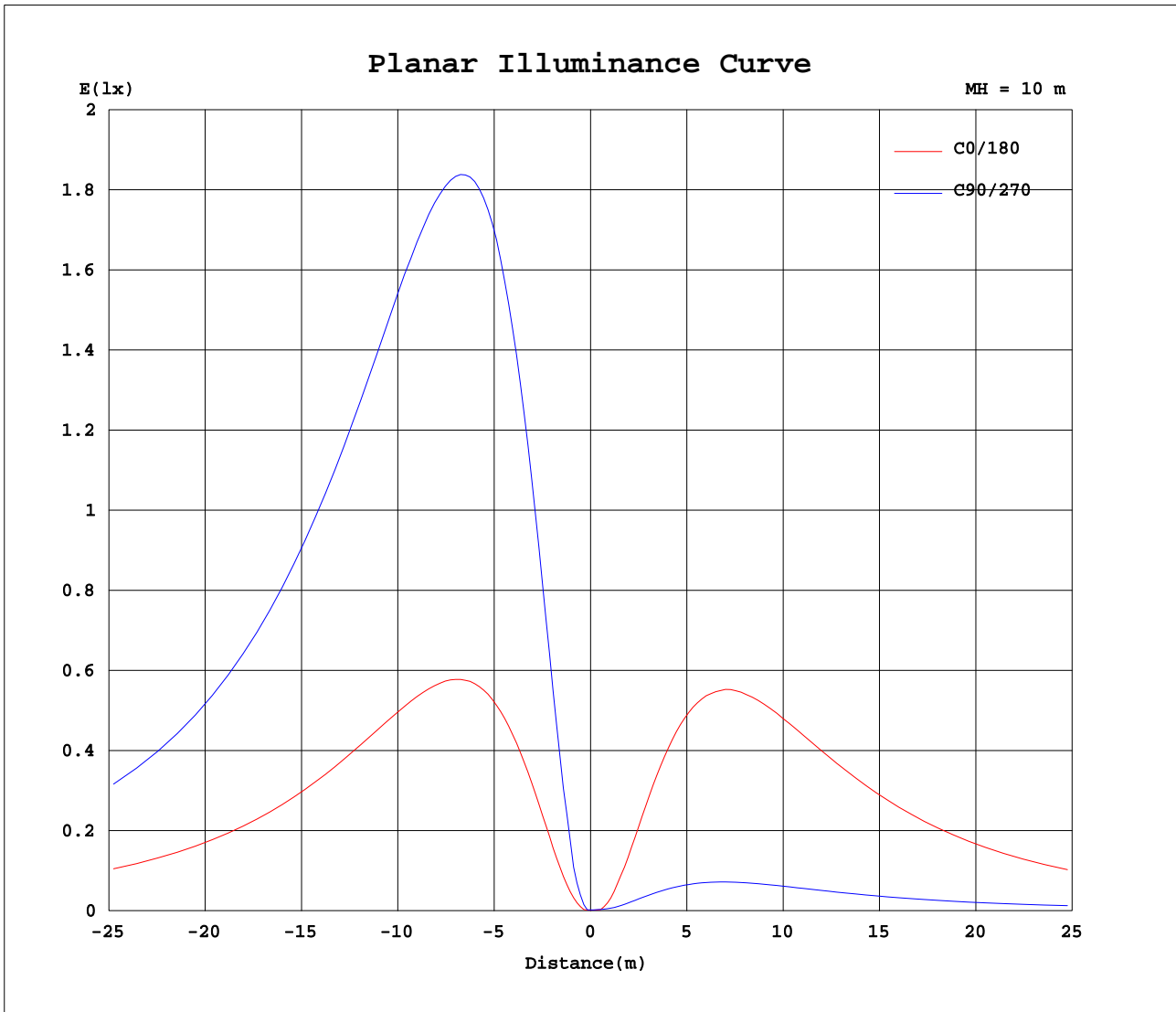
AvgL	cd/m2
L_0~180(65)av	4965
L_0~180(75)av	8790
L_0~180(85)av	27143
L_90~270(65)av	7895
L_90~270(75)av	13870
L_90~270(85)av	42656
L_45(65)av	6423
L_45(75)av	11322
L_45(85)av	34860

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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	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	0.18	0.18	0.18	0.18	0.19	0.21	0.24	0.28	0.31	0.35	0.38	0.40	0.18	0.18	0.18	0.18	0.19	0.21	0.24
5	3.29	4.94	6.81	8.55	9.94	10.8	11.0	10.5	9.42	7.82	6.02	4.21	1.98	1.13	0.81	0.70	0.71	0.58	0.53
10	13.9	21.2	28.9	36.8	43.3	47.7	48.8	46.9	42.3	35.4	27.6	20.0	11.5	6.78	3.94	2.71	2.52	2.08	1.71
15	29.5	43.9	60.1	76.1	89.2	97.9	101	97.0	87.6	73.9	58.1	42.1	26.2	15.8	9.30	5.87	4.81	4.13	3.66
20	47.7	70.2	95.6	120	141	154	159	153	139	118	92.9	68.1	43.7	26.9	15.8	9.75	7.33	6.33	5.92
25	66.9	97.8	132	166	194	212	218	211	192	163	129	95.5	62.4	39.0	23.1	13.9	9.95	8.57	8.32
30	86.2	126	169	211	247	270	278	269	244	208	166	123	81.4	51.3	30.6	18.3	12.6	10.8	10.8
35	105	152	205	256	298	325	334	323	295	252	201	150	101	63.6	38.2	22.6	15.1	12.8	13.1
40	123	178	239	297	345	376	387	375	342	293	235	175	119	75.6	45.6	27.0	17.6	14.7	15.3
45	140	202	271	336	390	424	436	423	386	331	267	199	136	86.8	52.8	31.1	20.0	16.5	17.4
50	156	225	300	372	430	468	481	466	426	367	296	222	152	97.5	59.4	35.1	22.2	18.2	19.3
55	171	245	327	403	466	507	521	505	463	398	322	242	166	107	65.5	38.7	24.3	19.7	21.0
60	183	263	350	431	499	542	556	540	495	427	345	260	179	116	70.8	41.9	26.1	21.0	22.5
65	194	279	370	456	527	572	587	569	522	451	365	276	190	123	75.5	44.8	27.7	22.2	23.8
70	203	291	386	476	549	596	611	594	544	471	382	288	199	129	79.4	47.1	29.1	23.1	25.0
75	210	301	400	491	567	615	631	613	563	486	394	298	206	134	82.5	49.0	30.1	23.9	25.8
80	215	308	409	502	580	629	645	627	576	498	404	306	211	137	84.7	50.4	30.9	24.4	26.4
85	218	312	414	509	587	637	654	634	583	504	410	310	215	139	86.0	51.2	31.3	24.7	26.7
90	219	313	415	510	589	639	655	637	585	506	411	311	215	140	86.4	51.4	31.5	24.7	26.8
95	217	310	413	506	585	634	651	633	581	502	408	309	213	139	85.9	51.1	31.3	24.6	26.7
100	213	305	405	498	575	624	640	622	572	494	401	304	210	137	84.4	50.2	30.8	24.2	26.2
105	207	296	394	485	560	608	625	606	557	481	391	296	204	133	81.9	48.7	30.0	23.7	25.6
110	198	285	379	467	540	587	602	585	537	464	376	285	196	128	78.7	46.8	28.9	22.9	24.6
115	189	271	361	445	515	560	576	559	513	443	359	271	187	122	74.8	44.5	27.5	21.9	23.5
120	177	255	340	419	486	529	543	528	484	418	338	255	176	114	70.1	41.6	25.9	20.7	22.1
125	163	236	315	390	453	493	507	492	451	388	314	237	163	106	64.7	38.4	24.0	19.3	20.5
130	149	215	288	357	415	453	465	452	413	356	288	217	149	96.2	58.7	34.9	22.0	17.9	18.8
135	132	192	258	321	374	408	420	408	373	321	259	195	133	85.8	52.2	31.1	19.9	16.3	16.9
140	115	168	226	282	329	360	370	360	329	282	227	171	116	74.9	45.5	27.1	17.5	14.6	14.9
145	96.2	142	192	241	282	308	318	309	282	241	194	146	98.6	64.0	38.8	23.2	15.3	12.8	12.7
150	77.6	115	157	197	231	254	262	254	232	199	160	120	80.3	53.4	32.3	19.3	12.9	10.9	10.5
155	58.7	87.7	121	152	180	198	204	199	181	155	124	92.9	61.8	43.7	26.5	15.9	10.7	9.00	8.22
160	40.2	60.7	84.6	108	128	141	146	142	130	111	89.1	66.0	43.5	34.0	20.7	12.5	8.39	7.06	5.98
165	23.1	35.6	50.3	64.7	77.9	86.8	90.3	88.2	80.6	68.7	55.2	41.0	26.5	23.3	14.2	8.56	5.75	4.94	4.01
170	9.52	14.8	21.3	28.1	34.0	38.5	40.7	40.1	36.9	31.8	25.6	19.2	12.0	11.4	7.03	4.26	3.02	2.77	2.27
175	1.46	2.27	3.40	5.54	6.85	7.34	8.41	8.60	8.30	6.98	6.22	4.24	2.46	2.48	1.58	1.10	0.92	0.88	0.74
180	0.06	0.06	0.08	0.09	0.06	0.05	0.03	0.01	0.00	0.01	0.03	0.00	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:0.1935A P:22.900W PF:0.9860 Freq:60.00Hz Lamp Flux:2598.05x1 lm		
NAME: ASD-LVF21-MV-24D25NK_4000K	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	0.28	0.31	0.35	0.38	0.40														
5	0.76	0.96	1.19	1.62	2.39														
10	2.10	2.59	3.33	5.26	9.05														
15	3.81	4.56	6.48	11.1	18.9														
20	5.78	6.79	10.3	17.9	30.5														
25	7.88	9.11	14.4	25.3	42.9														
30	9.98	11.5	18.5	32.8	55.5														
35	12.0	13.7	22.6	40.3	67.9														
40	14.0	16.0	26.5	47.5	79.9														
45	15.7	18.0	30.3	54.3	91.2														
50	17.4	19.9	33.7	60.5	102														
55	18.8	21.6	36.9	66.2	111														
60	20.0	23.1	39.7	71.2	119														
65	21.2	24.5	42.1	75.5	126														
70	22.1	25.6	44.1	79.0	132														
75	22.9	26.5	45.7	81.7	136														
80	23.4	27.1	46.8	83.7	139														
85	23.6	27.4	47.4	84.7	141														
90	23.8	27.6	47.5	85.0	141														
95	23.7	27.4	47.1	84.2	140														
100	23.3	26.9	46.2	82.6	138														
105	22.8	26.1	44.8	80.1	134														
110	22.0	25.1	42.9	76.8	128														
115	20.9	23.8	40.6	72.8	122														
120	19.7	22.3	37.9	68.0	114														
125	18.3	20.7	34.9	62.8	105														
130	16.9	18.8	31.7	57.0	96.1														
135	15.3	16.9	28.0	50.5	85.6														
140	13.5	14.7	24.1	43.4	73.7														
145	11.7	12.4	19.7	35.5	60.8														
150	9.78	10.1	15.2	27.2	47.1														
155	7.80	7.82	10.8	18.7	32.8														
160	5.72	5.69	6.93	11.2	19.9														
165	3.58	3.65	4.21	5.83	9.88														
170	1.72	1.81	2.20	2.52	3.74														
175	0.52	0.61	0.87	0.95	1.21														
180	0.13	0.15	0.18	0.22	0.26														

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: