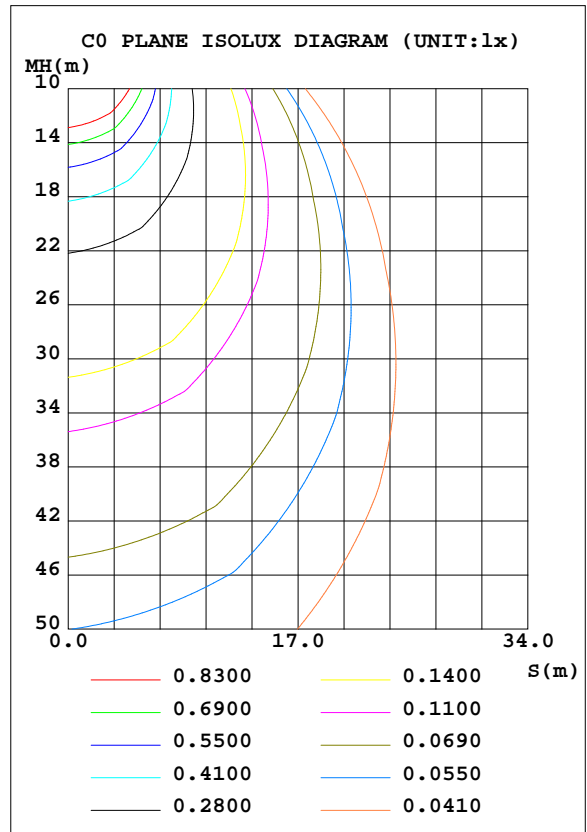
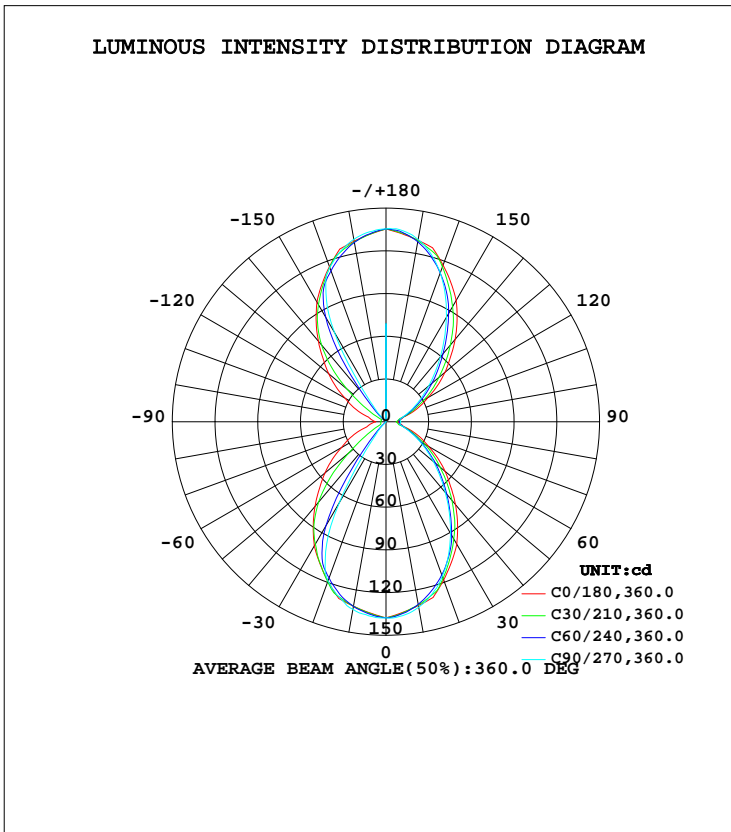


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 20.70 lm/W			
MODEL:ASD-LWS28S-MV-24D22CC-BK		I _{max} (cd)	137.9	S/MH(C0/180)	1.11
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	0.86
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	458.28	η UP, DN(C0-180)	28.9,30.0
NOMINAL FLUX(lm)	458.279	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	20.5,20.6
LAMPS INSIDE	1	η up(%)	49.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	50.6	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	131.1	130.2	132.3	130.4	131.5	131.4	133.7	131.4	0- 10	12.79	12.79	2.79,2.79
20	118.3	117.0	115.6	117.5	119.2	119.3	119.0	118.8	10- 20	35.32	48.11	10.5,10.5
30	99.40	93.35	90.64	94.48	100.7	94.75	65.79	94.11	20- 30	48.47	96.58	21.1,21.1
40	75.90	69.65	64.81	71.39	77.56	46.21	8.941	46.05	30- 40	45.79	142.4	31.1,31.1
50	54.20	47.47	43.45	49.48	56.00	6.211	0.0423	6.181	40- 50	34.62	177.0	38.6,38.6
60	34.31	29.95	27.14	31.92	35.99	0.8336	0.0282	1.165	50- 60	24.13	201.1	43.9,43.9
70	19.89	16.71	15.61	18.45	21.35	0.8076	0.0210	1.221	60- 70	15.43	216.5	47.3,47.3
80	10.89	8.748	9.906	9.641	11.73	0.7988	0.0181	1.208	70- 80	8.871	225.4	49.2,49.2
90	7.318	8.449	10.41	8.729	7.128	0.7226	0.0281	1.193	80- 90	6.568	232.0	50.6,50.6
100	10.85	9.040	10.07	9.704	10.85	0.6689	0.0177	1.219	90-100	6.535	238.5	52,52
110	19.74	16.64	15.10	17.27	19.52	0.6129	0.0181	1.295	100-110	8.720	247.2	53.9,53.9
120	33.99	28.88	24.88	29.25	33.16	0.5766	0.0237	1.300	110-120	14.73	262.0	57.2,57.2
130	54.00	45.30	39.28	45.34	52.62	8.496	0.0453	9.426	120-130	23.08	285.0	62.2,62.2
140	75.53	66.59	59.34	66.50	73.92	50.32	12.50	52.48	130-140	33.78	318.8	69.6,69.6
150	98.59	90.33	85.00	89.92	97.07	91.64	72.52	93.02	140-150	45.16	364.0	79.4,79.4
160	117.2	114.6	111.4	114.4	116.0	114.9	115.4	116.1	150-160	47.22	411.2	89.7,89.7
170	129.5	128.5	130.0	128.2	128.8	127.9	130.1	128.6	160-170	34.51	445.7	97.3,97.3
180	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	170-180	12.56	458.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 161.13 lm

%lum = 35.2%
 %lamp = 35.2%

Conical surface Flux(120deg): 201.12 lm

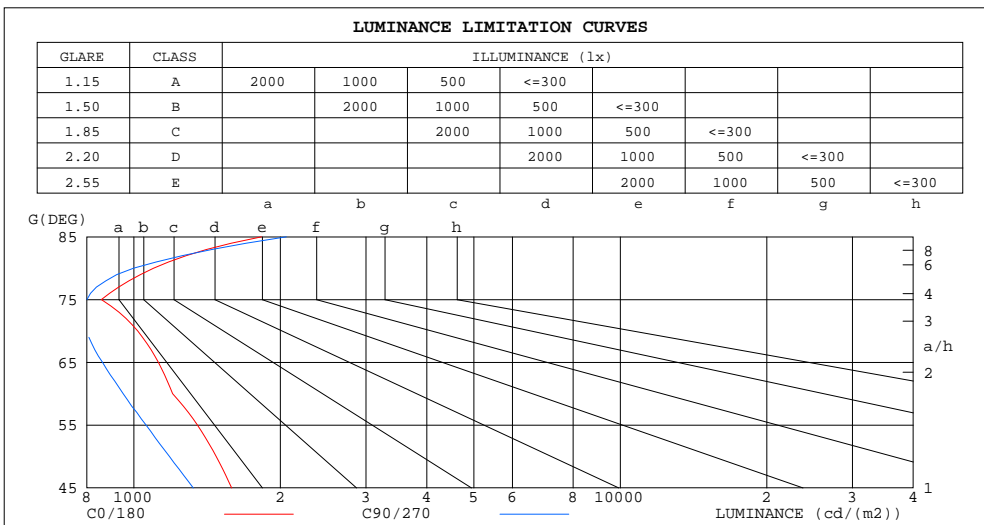
%lum = 43.9%
 %lamp = 43.9%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1829	2058
80	1098	999
75	857	801
70	1018	799
65	1123	862
60	1201	950
55	1351	1059
50	1476	1183
45	1588	1324

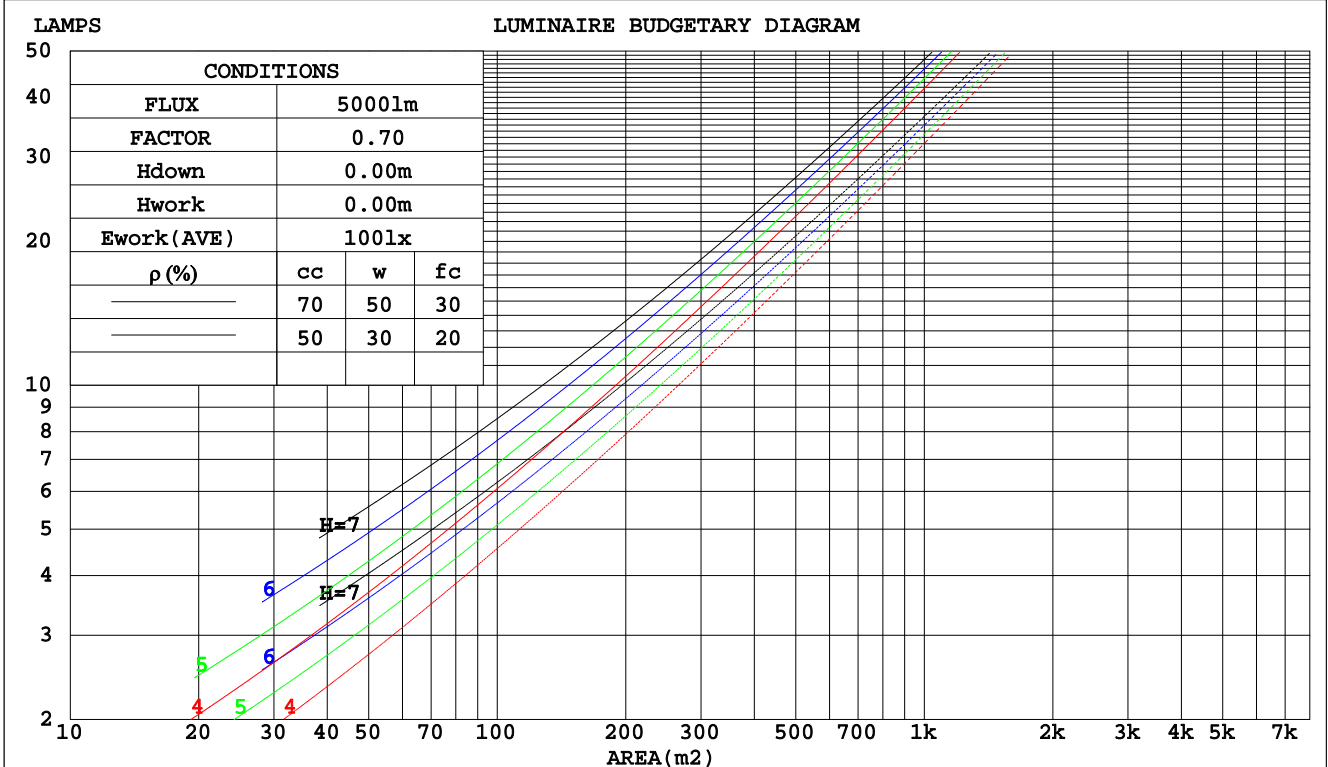
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	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	.94	.91	.87	.87	.84	.81	.74	.72	.70	.62	.60	.59	.51	.50	.49	.44
2.0	.83	.78	.73	.77	.72	.68	.66	.62	.59	.56	.53	.51	.46	.44	.43	.38
3.0	.74	.67	.62	.69	.63	.58	.59	.55	.51	.50	.47	.44	.42	.39	.37	.33
4.0	.66	.59	.53	.62	.55	.50	.53	.48	.44	.45	.42	.39	.38	.35	.33	.30
5.0	.60	.52	.46	.56	.49	.44	.48	.43	.39	.41	.37	.34	.35	.32	.30	.27
6.0	.54	.46	.41	.51	.44	.39	.44	.39	.35	.38	.34	.31	.32	.29	.27	.24
7.0	.49	.42	.36	.46	.39	.35	.40	.35	.31	.35	.31	.28	.30	.27	.24	.22
8.0	.45	.38	.33	.42	.36	.31	.37	.32	.28	.32	.28	.25	.27	.24	.22	.20
9.0	.41	.34	.29	.39	.32	.28	.34	.29	.25	.30	.26	.23	.26	.22	.20	.18
10.0	.38	.31	.27	.36	.30	.26	.32	.27	.23	.28	.24	.21	.24	.21	.19	.17



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	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	.266	.151	.048	.244	.139	.044	.203	.116	.037	.165	.095	.031	.130	.076	.024	
2.0	.245	.134	.041	.225	.124	.038	.187	.104	.032	.153	.086	.027	.121	.069	.022	
3.0	.226	.120	.036	.208	.111	.034	.174	.094	.029	.143	.078	.024	.113	.063	.019	
4.0	.210	.109	.032	.193	.101	.030	.162	.086	.026	.133	.071	.022	.106	.058	.018	
5.0	.195	.099	.029	.180	.092	.027	.151	.079	.023	.124	.066	.020	.100	.053	.016	
6.0	.182	.091	.026	.168	.085	.024	.142	.073	.021	.117	.061	.018	.094	.049	.015	
7.0	.171	.084	.024	.158	.079	.022	.133	.067	.019	.110	.056	.016	.088	.046	.013	
8.0	.160	.078	.022	.148	.073	.021	.125	.063	.018	.104	.053	.015	.084	.043	.013	
9.0	.151	.073	.020	.140	.068	.019	.118	.059	.017	.098	.049	.014	.079	.040	.012	
10.0	.142	.068	.019	.132	.064	.018	.112	.055	.015	.093	.046	.013	.075	.038	.011	

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	.484	.484	.484	.331	.331	.331	.190	.190	.190	.061	.061	.061	
1.0	.557	.536	.517	.476	.460	.445	.326	.316	.308	.187	.183	.179	.060	.059	.058	
2.0	.548	.514	.486	.469	.442	.420	.322	.306	.293	.185	.178	.172	.059	.058	.056	
3.0	.540	.498	.464	.463	.430	.403	.318	.298	.282	.184	.174	.166	.059	.057	.055	
4.0	.533	.486	.450	.457	.420	.391	.314	.292	.275	.182	.171	.163	.059	.056	.054	
5.0	.526	.476	.439	.452	.412	.382	.311	.288	.270	.180	.169	.160	.058	.055	.053	
6.0	.520	.469	.432	.447	.406	.376	.308	.284	.266	.179	.167	.158	.058	.055	.052	
7.0	.514	.462	.426	.442	.401	.371	.305	.281	.263	.177	.166	.157	.057	.054	.052	
8.0	.508	.457	.422	.438	.396	.368	.303	.278	.261	.176	.164	.155	.057	.054	.051	
9.0	.503	.453	.418	.433	.393	.365	.300	.276	.259	.175	.163	.155	.057	.054	.051	
10.0	.498	.449	.416	.430	.390	.363	.298	.274	.258	.174	.162	.154	.056	.053	.051	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm										
NAME: LED Wall Pack					TYPE:LED			WEIGHT:		
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K					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	10.5	11.4	11.4	12.3	13.3	9.6	10.5	10.4	11.3	12.3
3H	11.6	12.4	12.4	13.2	14.3	10.5	11.3	11.4	12.2	13.3
4H	11.9	12.6	12.8	13.5	14.6	10.9	11.7	11.8	12.6	13.7
6H	12.3	13.0	13.2	13.9	15.0	11.5	12.2	12.4	13.1	14.2
8H	12.6	13.2	13.5	14.1	15.3	11.9	12.5	12.8	13.4	14.6
12H	13.0	13.6	13.9	14.5	15.7	12.5	13.1	13.4	14.1	15.2
4H 2H	10.7	11.4	11.6	12.3	13.4	9.9	10.6	10.8	11.5	12.6
3H	11.9	12.5	12.8	13.4	14.6	11.0	11.6	11.9	12.5	13.7
4H	12.3	12.8	13.2	13.8	15.0	11.6	12.1	12.5	13.1	14.3
6H	12.8	13.3	13.8	14.2	15.5	12.3	12.8	13.3	13.7	15.0
8H	13.2	13.6	14.2	14.6	15.8	12.8	13.3	13.8	14.2	15.5
12H	13.7	14.1	14.7	15.1	16.4	13.6	14.0	14.6	15.0	16.3
8H 4H	12.3	12.8	13.3	13.7	15.0	11.7	12.2	12.7	13.1	14.4
6H	13.0	13.4	14.0	14.4	15.7	12.7	13.1	13.7	14.0	15.3
8H	13.6	13.9	14.6	14.9	16.2	13.4	13.7	14.4	14.7	16.1
12H	14.3	14.5	15.3	15.6	16.9	14.5	14.8	15.5	15.8	17.1
12H 4H	12.3	12.7	13.3	13.7	15.0	11.7	12.1	12.7	13.1	14.4
6H	13.1	13.4	14.1	14.4	15.7	12.8	13.1	13.8	14.1	15.4
8H	13.7	14.0	14.7	15.0	16.3	13.6	13.9	14.6	14.9	16.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.2				
2.0H	+ 0.5 / - 0.5					+ 0.2 / - 0.2				

CIE Pub.117, 458.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.7)
 Area: 0.05712 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

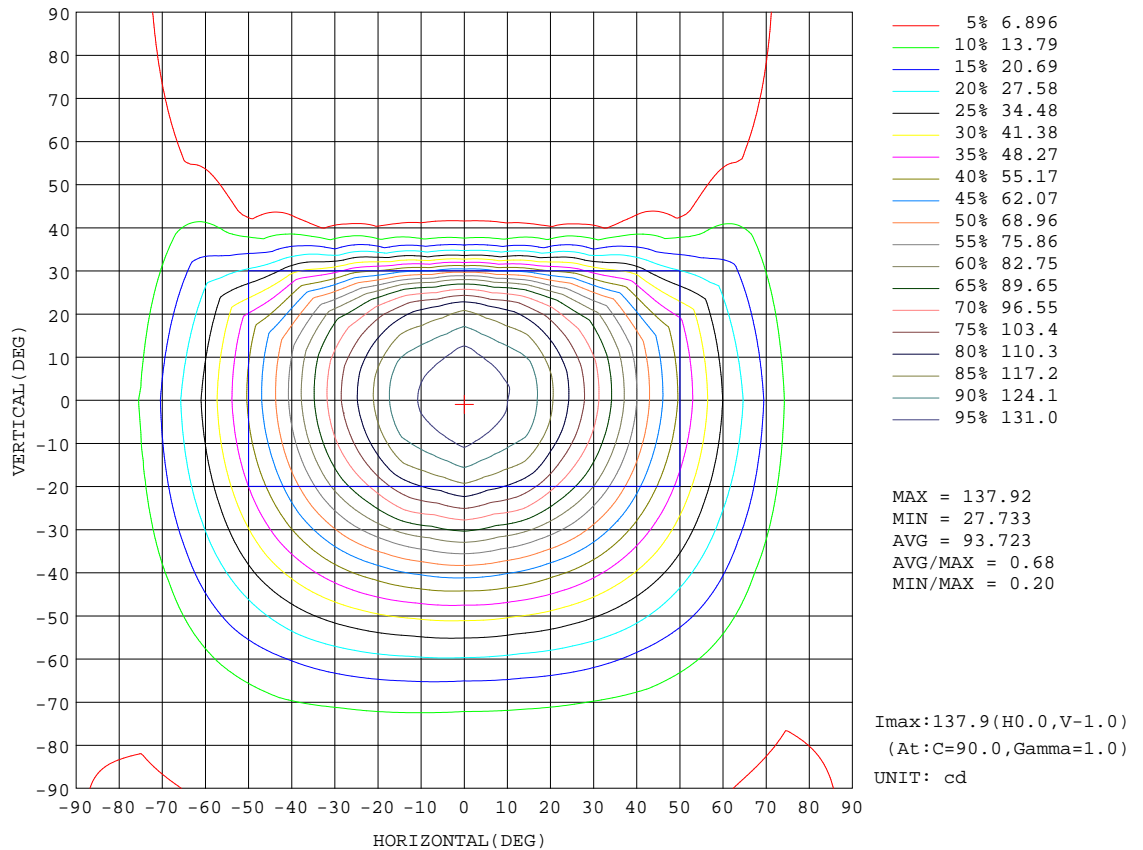
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	39	34	47	38	33	42	35	31	23
0.80	58	48	42	55	46	40	49	42	37	28
1.00	66	55	49	62	53	47	55	49	43	31
1.25	72	62	55	67	59	53	59	53	48	35
1.50	77	67	60	72	63	58	62	56	52	37
2.00	83	75	68	77	70	65	67	62	58	39
2.50	87	79	73	81	74	69	70	65	61	41
3.00	90	83	78	84	78	73	72	68	64	42
4.00	94	88	83	87	82	78	74	71	68	44
5.00	96	91	87	89	85	81	76	73	71	45
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: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

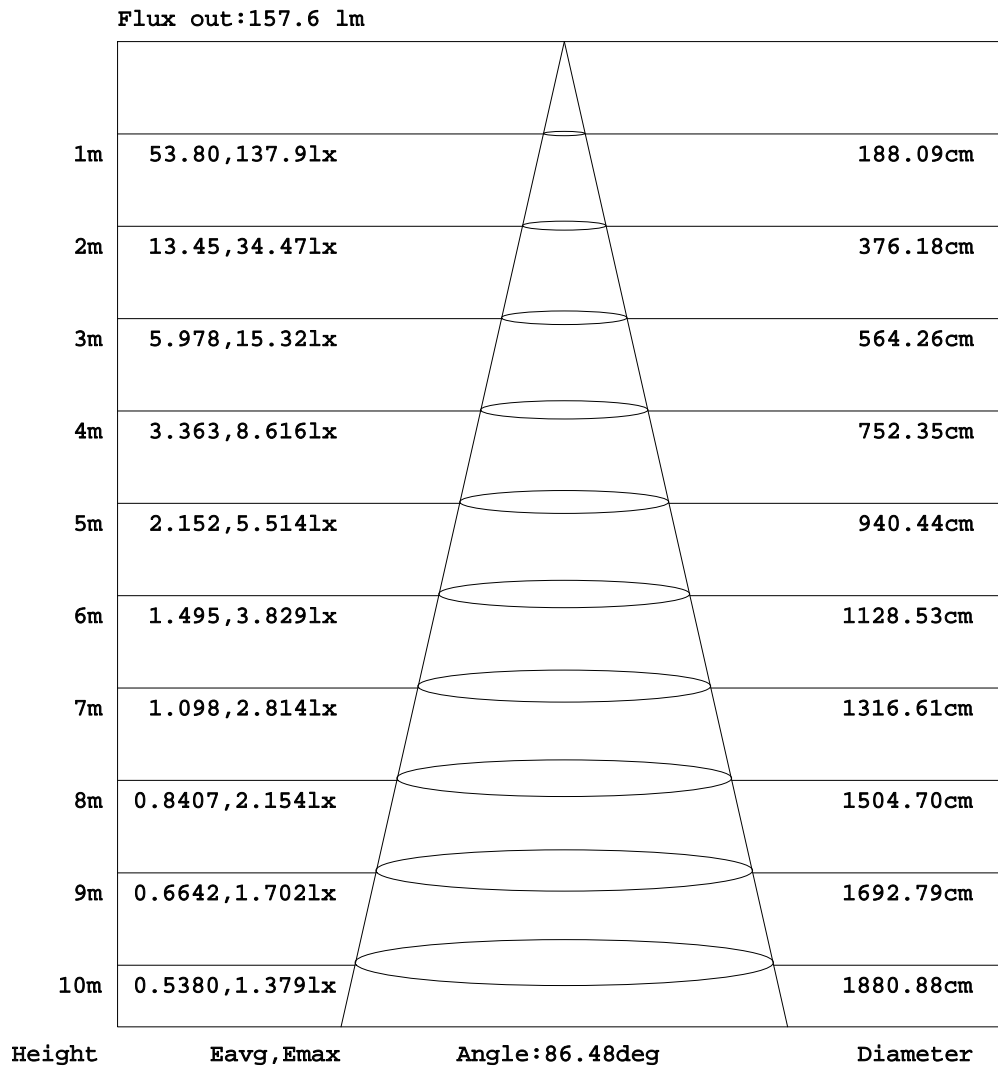


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance:2.500m [K=1.0391]
 Remarks:

AAI Figure

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



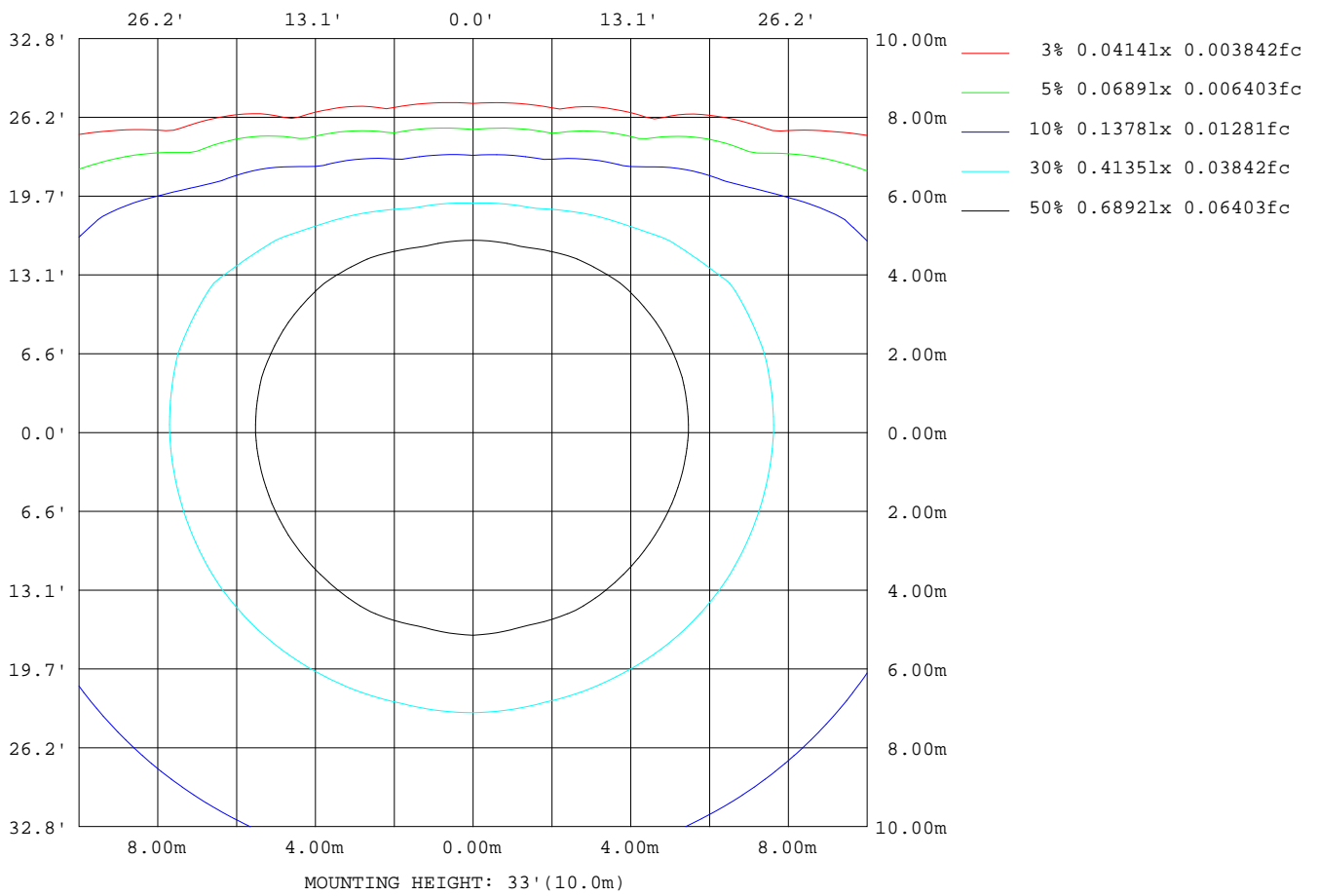
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance:2.500m [K=1.0391]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	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: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

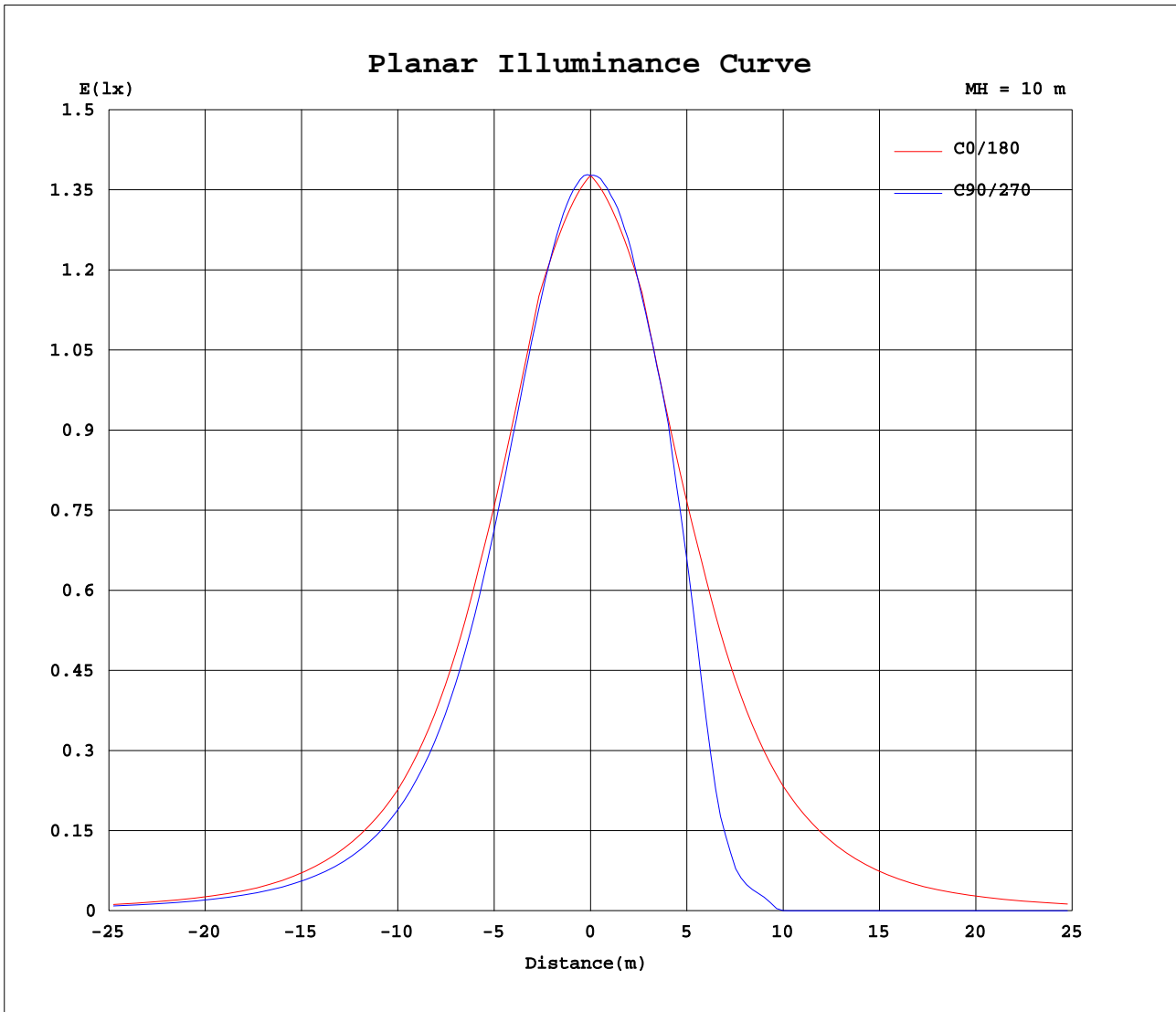
AvgL	cd/m2
L_0~180(65)av	1155
L_0~180(75)av	903
L_0~180(85)av	1861
L_90~270(65)av	431
L_90~270(75)av	401
L_90~270(85)av	1031
L_45(65)av	509
L_45(75)av	470
L_45(85)av	988

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 42.7%
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: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	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	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
5	134	135	135	135	135	136	137	136	135	135	135	135	135	135	135	135	136	136	137
10	131	131	131	130	130	131	132	131	130	130	131	131	132	132	132	131	132	132	134
15	128	127	126	124	123	123	125	123	123	125	126	127	128	128	127	126	126	126	127
20	118	118	117	117	115	114	116	114	115	118	118	118	119	120	120	119	117	117	119
25	109	108	106	106	104	102	104	102	105	106	107	108	110	110	110	108	106	99.8	100
30	99.4	97.4	95.2	93.3	92.3	89.4	90.6	89.9	93.2	94.5	96.7	98.7	101	101	99.2	94.8	84.3	69.1	65.8
35	87.6	85.7	84.1	81.3	78.9	76.8	77.4	77.4	79.9	82.7	85.7	87.3	89.1	90.1	88.2	74.4	48.3	29.0	25.9
40	75.9	73.9	72.0	69.6	66.5	64.8	64.8	65.4	67.7	71.4	73.8	75.7	77.6	78.6	73.7	46.2	18.0	9.88	8.94
45	64.1	62.2	60.4	58.0	55.2	53.9	53.5	54.5	56.6	59.8	62.6	64.3	66.0	67.1	55.2	19.8	5.96	1.00	0.09
50	54.2	51.8	49.6	47.5	45.4	43.6	43.4	44.4	46.7	49.5	52.0	54.1	56.0	56.5	34.2	6.21	0.06	0.04	0.04
55	44.3	42.0	40.3	38.1	36.1	34.7	34.7	35.4	37.5	40.1	42.6	44.2	46.0	45.5	17.9	0.87	0.04	0.03	0.03
60	34.3	32.3	31.4	29.9	28.3	27.1	27.1	27.9	29.7	31.9	33.7	34.5	36.0	33.8	8.19	0.83	0.03	0.03	0.03
65	27.1	24.8	23.5	22.6	21.7	20.9	20.8	21.7	23.0	24.5	25.8	26.9	28.7	24.7	3.97	0.83	0.03	0.02	0.02
70	19.9	17.8	17.4	16.7	16.2	15.7	15.6	16.3	17.3	18.5	19.4	19.8	21.3	16.9	3.86	0.81	0.03	0.02	0.02
75	12.7	10.7	11.6	12.3	12.0	11.8	11.8	12.4	12.9	13.6	13.3	12.7	14.0	9.75	3.81	0.79	0.03	0.03	0.02
80	10.9	8.74	8.80	8.75	10.1	10.1	9.91	10.3	10.5	9.64	10.1	10.1	11.7	8.57	3.77	0.80	0.03	0.03	0.02
85	9.10	7.31	7.94	8.60	9.46	10.1	10.2	10.3	9.70	9.15	8.75	8.07	9.43	8.07	3.73	0.74	0.03	0.04	0.02
90	7.32	5.88	7.08	8.45	9.51	10.2	10.4	10.4	9.73	8.73	7.40	6.04	7.13	7.61	3.75	0.72	0.03	0.04	0.03
95	9.08	7.50	8.12	8.73	9.40	10.0	10.2	10.2	9.62	9.20	8.60	7.77	8.99	8.12	3.64	0.68	0.03	0.03	0.02
100	10.8	9.13	9.18	9.04	10.1	10.1	10.1	10.4	10.4	9.70	9.82	9.51	10.8	8.65	3.59	0.67	0.03	0.03	0.02
105	12.6	11.3	12.0	12.4	12.2	12.0	11.9	12.3	12.7	13.1	12.7	11.7	12.7	9.79	3.54	0.63	0.02	0.02	0.02
110	19.7	18.0	17.6	16.6	16.0	15.3	15.1	15.6	16.5	17.3	18.1	18.2	19.5	16.4	3.54	0.61	0.03	0.02	0.02
115	26.9	24.7	23.5	22.1	20.9	19.8	19.5	20.1	21.3	22.7	23.9	24.7	26.3	23.5	3.51	0.60	0.03	0.02	0.02
120	34.0	32.0	31.0	28.9	26.8	25.2	24.9	25.4	27.1	29.2	31.1	31.8	33.2	31.7	8.42	0.58	0.03	0.03	0.02
125	44.0	41.6	39.5	36.5	33.8	31.8	31.5	32.0	34.0	36.6	39.4	41.1	42.9	42.7	19.5	0.53	0.05	0.04	0.03
130	54.0	51.4	48.5	45.3	42.2	39.9	39.3	40.0	42.3	45.3	48.3	50.6	52.6	53.1	35.9	8.50	0.09	0.05	0.05
135	64.0	61.6	59.0	55.4	51.5	49.3	48.5	49.5	51.6	55.3	58.5	60.5	62.3	63.4	54.0	24.4	8.82	3.41	0.44
140	75.5	73.2	70.3	66.6	62.3	59.8	59.3	59.8	62.3	66.5	69.8	72.1	73.9	74.6	70.4	50.3	23.4	13.8	12.5
145	87.1	84.9	82.3	78.1	74.6	71.5	71.6	71.5	74.4	77.9	81.6	83.8	85.5	86.0	83.8	73.8	54.9	37.1	33.2
150	98.6	96.6	93.5	90.3	88.1	84.4	85.0	84.2	87.8	89.9	92.9	95.4	97.1	97.0	94.9	91.6	84.7	74.0	72.5
155	108	107	105	103	101	97.4	98.6	97.3	100	102	104	106	107	106	105	104	104	98.7	99.7
160	117	117	116	115	111	110	111	110	111	114	115	116	116	116	116	115	113	113	115
165	126	126	124	122	121	120	122	120	121	122	124	125	126	125	123	122	121	122	124
170	129	130	129	129	128	129	130	129	128	128	129	129	129	129	128	128	128	129	130
175	132	133	133	133	133	134	135	134	133	133	133	132	132	132	132	132	133	133	134
180	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1872A P:22.140W PF:0.9857 Freq:60.00Hz Lamp Flux:458.279x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	138	138	138	138	138														
5	136	135	135	135	135														
10	132	132	131	131	132														
15	125	125	126	127	128														
20	117	117	119	119	119														
25	99.5	106	108	109	110														
30	69.0	84.1	94.1	98.4	99.9														
35	28.9	48.2	73.7	87.0	88.5														
40	9.80	17.9	46.0	72.3	76.6														
45	0.83	5.84	19.7	53.9	65.1														
50	0.05	0.09	6.18	33.4	54.5														
55	0.04	0.11	1.17	17.9	43.7														
60	0.03	0.09	1.16	8.38	32.4														
65	0.03	0.07	1.20	4.29	23.8														
70	0.03	0.08	1.22	4.12	16.4														
75	0.03	0.06	1.19	4.14	9.75														
80	0.03	0.07	1.21	4.10	8.67														
85	0.03	0.06	1.18	4.06	8.23														
90	0.04	0.05	1.19	4.10	7.84														
95	0.03	0.06	1.19	4.04	8.22														
100	0.03	0.07	1.22	4.05	8.64														
105	0.02	0.07	1.25	4.05	9.74														
110	0.02	0.10	1.29	4.04	16.7														
115	0.03	0.08	1.31	4.15	24.2														
120	0.03	0.13	1.30	9.40	32.8														
125	0.04	0.17	1.35	21.1	43.9														
130	0.05	0.14	9.43	38.0	54.6														
135	3.41	9.01	26.1	56.2	65.0														
140	13.9	24.1	52.5	72.3	76.3														
145	37.5	55.9	75.4	85.7	87.7														
150	74.4	85.4	93.0	96.8	98.7														
155	99.0	104	105	107	108														
160	113	114	116	117	117														
165	122	122	123	125	126														
170	129	128	129	129	129														
175	133	133	132	132	132														
180	135	135	135	135	135														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.7%
 Test Distance: 2.500m [K=1.0391]
 Remarks: