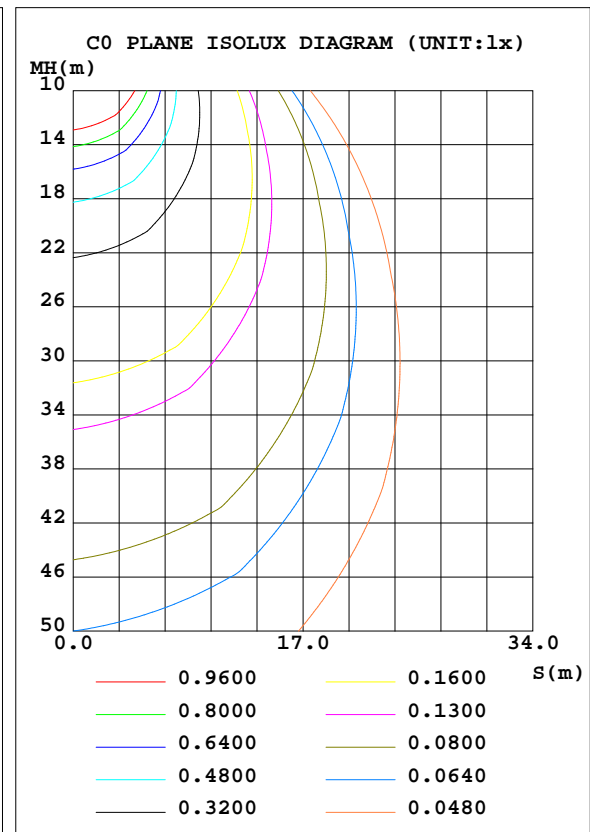
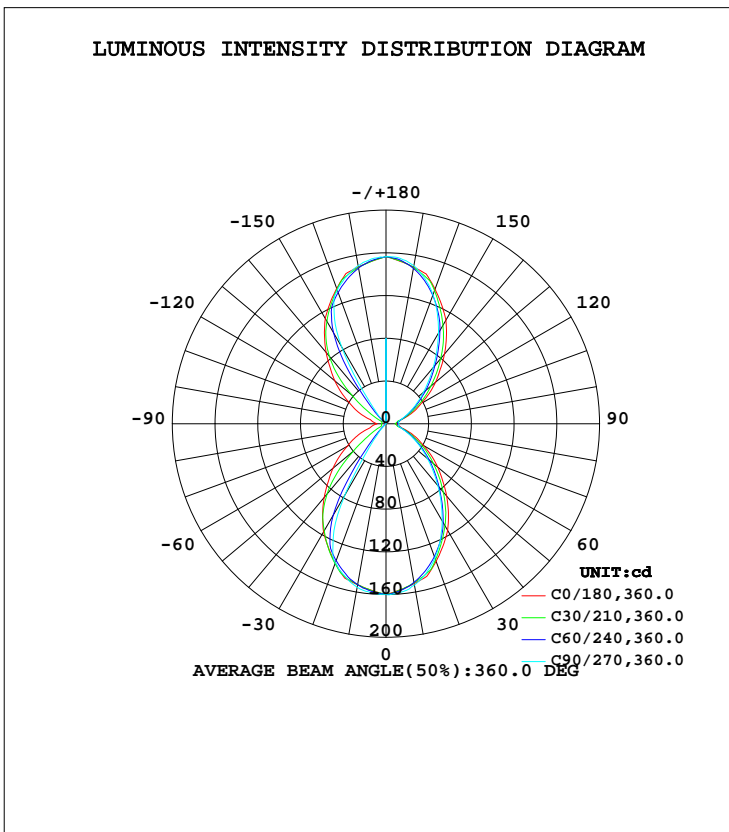


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 25.66 lm/W			
MODEL:ASD-LWS28S-MV-24D22CC-BK		I _{max} (cd)	160.3	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)	531.95	η UP, DN(C0-180)	28.8,30.2
NOMINAL FLUX(lm)	531.948	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	20.4,20.6
LAMPS INSIDE	1	η up(%)	49.2	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	50.8	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	152.0	151.1	153.4	151.8	153.1	153.0	155.3	152.4	0- 10	14.85	14.85	2.79,2.79
20	137.1	135.3	133.7	136.8	138.8	138.9	138.5	137.5	10- 20	41.00	55.85	10.5,10.5
30	115.5	108.0	105.2	109.9	117.0	110.9	77.11	109.3	20- 30	56.32	112.2	21.1,21.1
40	88.42	81.01	75.61	83.05	89.99	54.41	10.45	53.72	30- 40	53.29	165.5	31.1,31.1
50	63.28	55.45	50.82	57.51	64.81	7.363	0.0486	7.349	40- 50	40.32	205.8	38.7,38.7
60	40.14	35.26	31.91	37.12	41.48	0.9755	0.0325	1.385	50- 60	28.14	233.9	44.44
70	23.39	19.79	18.50	21.55	24.51	0.9498	0.0240	1.456	60- 70	18.02	251.9	47.4,47.4
80	12.92	10.44	11.90	11.46	13.47	0.9467	0.0214	1.442	70- 80	10.42	262.4	49.3,49.3
90	8.740	10.07	12.30	10.44	8.363	0.8539	0.0339	1.412	80- 90	7.760	270.1	50.8,50.8
100	12.55	10.69	12.08	11.58	12.89	0.7797	0.0207	1.432	90-100	7.716	277.8	52.2,52.2
110	22.29	19.29	18.02	20.62	23.34	0.7158	0.0214	1.501	100-110	10.25	288.1	54.2,54.2
120	37.95	33.05	29.31	34.70	39.69	0.6711	0.0283	1.502	110-120	17.16	305.3	57.4,57.4
130	60.53	51.63	45.77	53.59	62.46	9.784	0.0539	10.55	120-130	26.75	332.0	62.4,62.4
140	85.27	76.04	68.85	78.16	87.17	58.56	14.23	59.37	130-140	38.99	371.0	69.7,69.7
150	112.2	103.3	98.38	104.9	113.8	106.8	83.27	106.3	140-150	52.11	423.1	79.5,79.5
160	134.3	131.7	128.7	132.8	134.9	133.3	133.2	133.4	150-160	54.51	477.6	89.8,89.8
170	149.0	148.0	150.2	148.3	149.2	148.1	150.2	148.0	160-170	39.83	517.4	97.3,97.3
180	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	170-180	14.50	531.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 187.31 lm

%lum = 35.2%
 %lamp = 35.2%

Conical surface Flux(120deg): 233.92 lm

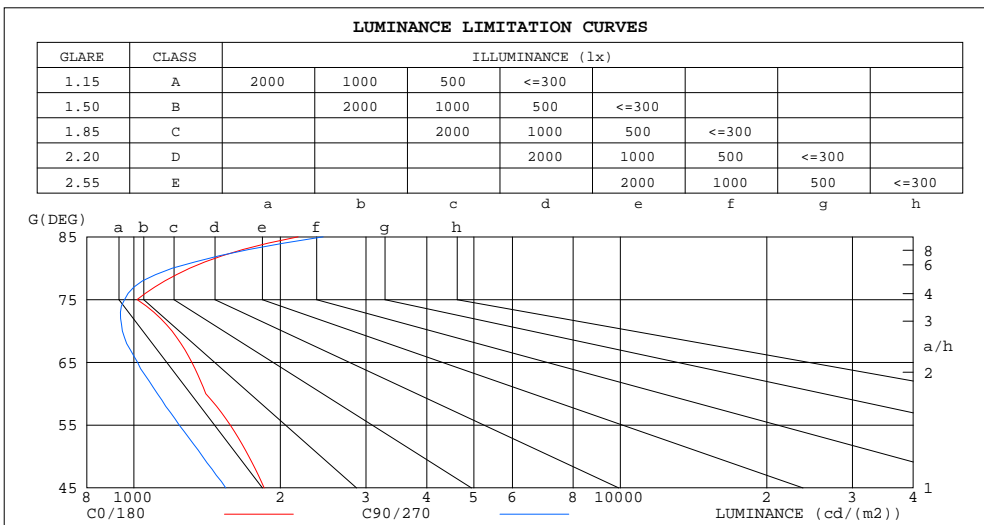
%lum = 44.0%
 %lamp = 44.0%

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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2176	2448
80	1303	1200
75	1015	957
70	1197	947
65	1316	1018
60	1406	1117
55	1578	1239
50	1724	1384
45	1853	1544

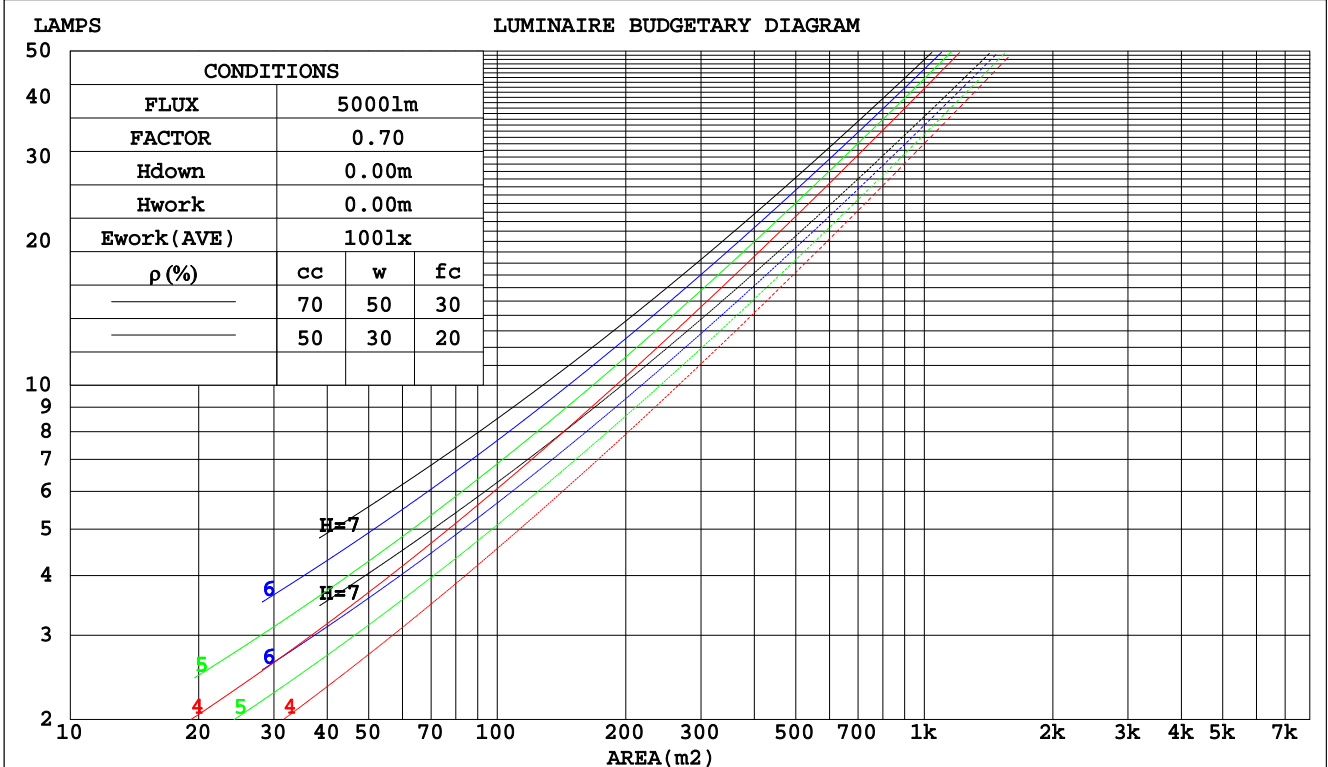
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 09 August 2023

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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	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	.94	.91	.87	.87	.84	.81	.74	.72	.70	.62	.61	.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	.34
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	.23	.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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	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	.117	.037	.166	.096	.031	.131	.076	.025	
2.0	.245	.134	.041	.225	.124	.038	.188	.104	.032	.154	.086	.027	.122	.069	.022	
3.0	.226	.120	.036	.208	.112	.034	.174	.094	.029	.143	.078	.024	.114	.063	.020	
4.0	.210	.109	.032	.193	.101	.030	.162	.086	.026	.133	.072	.022	.106	.058	.018	
5.0	.195	.099	.029	.180	.092	.027	.151	.079	.023	.125	.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	.057	.016	.089	.046	.014	
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	.119	.059	.017	.098	.049	.014	.080	.040	.012	
10.0	.143	.068	.019	.132	.064	.018	.112	.055	.015	.093	.046	.013	.076	.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	.565	.565	.565	.483	.483	.483	.330	.330	.330	.189	.189	.189	.061	.061	.061	
1.0	.555	.535	.516	.475	.459	.444	.325	.316	.307	.187	.183	.179	.060	.059	.058	
2.0	.547	.513	.484	.468	.441	.419	.321	.305	.292	.185	.178	.171	.059	.057	.056	
3.0	.539	.497	.463	.462	.428	.402	.317	.298	.282	.183	.174	.166	.059	.056	.054	
4.0	.532	.484	.449	.456	.419	.390	.314	.292	.274	.181	.171	.162	.058	.056	.053	
5.0	.525	.475	.438	.451	.411	.381	.310	.287	.269	.180	.169	.160	.058	.055	.053	
6.0	.518	.467	.431	.446	.405	.375	.307	.283	.265	.178	.167	.158	.058	.054	.052	
7.0	.513	.461	.425	.441	.400	.370	.305	.280	.262	.177	.165	.156	.057	.054	.052	
8.0	.507	.456	.421	.437	.395	.367	.302	.278	.260	.176	.164	.155	.057	.054	.051	
9.0	.502	.451	.417	.432	.392	.364	.300	.275	.258	.175	.163	.154	.057	.053	.051	
10.0	.497	.447	.415	.428	.389	.362	.297	.273	.257	.173	.162	.153	.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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	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	11.1	12.0	12.0	12.9	13.9	10.2	11.0	11.0	11.9	12.9
3H	12.2	13.0	13.0	13.8	14.9	11.1	11.9	12.0	12.8	13.9
4H	12.5	13.2	13.4	14.1	15.2	11.6	12.3	12.4	13.2	14.3
6H	12.9	13.6	13.8	14.5	15.6	12.1	12.8	13.0	13.7	14.8
8H	13.2	13.9	14.1	14.8	15.9	12.5	13.2	13.5	14.1	15.3
12H	13.6	14.2	14.6	15.2	16.3	13.2	13.8	14.1	14.7	15.9
4H 2H	11.3	12.0	12.2	12.9	14.0	10.5	11.2	11.4	12.1	13.2
3H	12.5	13.1	13.4	14.0	15.2	11.6	12.2	12.6	13.2	14.3
4H	12.9	13.5	13.9	14.4	15.6	12.2	12.8	13.2	13.7	14.9
6H	13.5	13.9	14.4	14.9	16.1	12.9	13.4	13.9	14.4	15.6
8H	13.8	14.3	14.8	15.3	16.5	13.5	13.9	14.5	14.9	16.2
12H	14.4	14.8	15.4	15.8	17.0	14.3	14.7	15.3	15.7	17.0
8H 4H	13.0	13.4	13.9	14.4	15.6	12.4	12.8	13.3	13.8	15.0
6H	13.7	14.1	14.7	15.0	16.3	13.3	13.7	14.3	14.7	16.0
8H	14.2	14.5	15.2	15.6	16.9	14.1	14.4	15.1	15.4	16.7
12H	14.9	15.2	16.0	16.2	17.6	15.2	15.5	16.2	16.5	17.8
12H 4H	13.0	13.4	13.9	14.3	15.6	12.3	12.8	13.3	13.7	15.0
6H	13.8	14.1	14.8	15.1	16.4	13.4	13.7	14.4	14.8	16.1
8H	14.4	14.7	15.4	15.7	17.0	14.3	14.6	15.3	15.6	16.9
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 / - 0.4					+ 0.2 / - 0.2				

CIE Pub.117, 531.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.2)
 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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

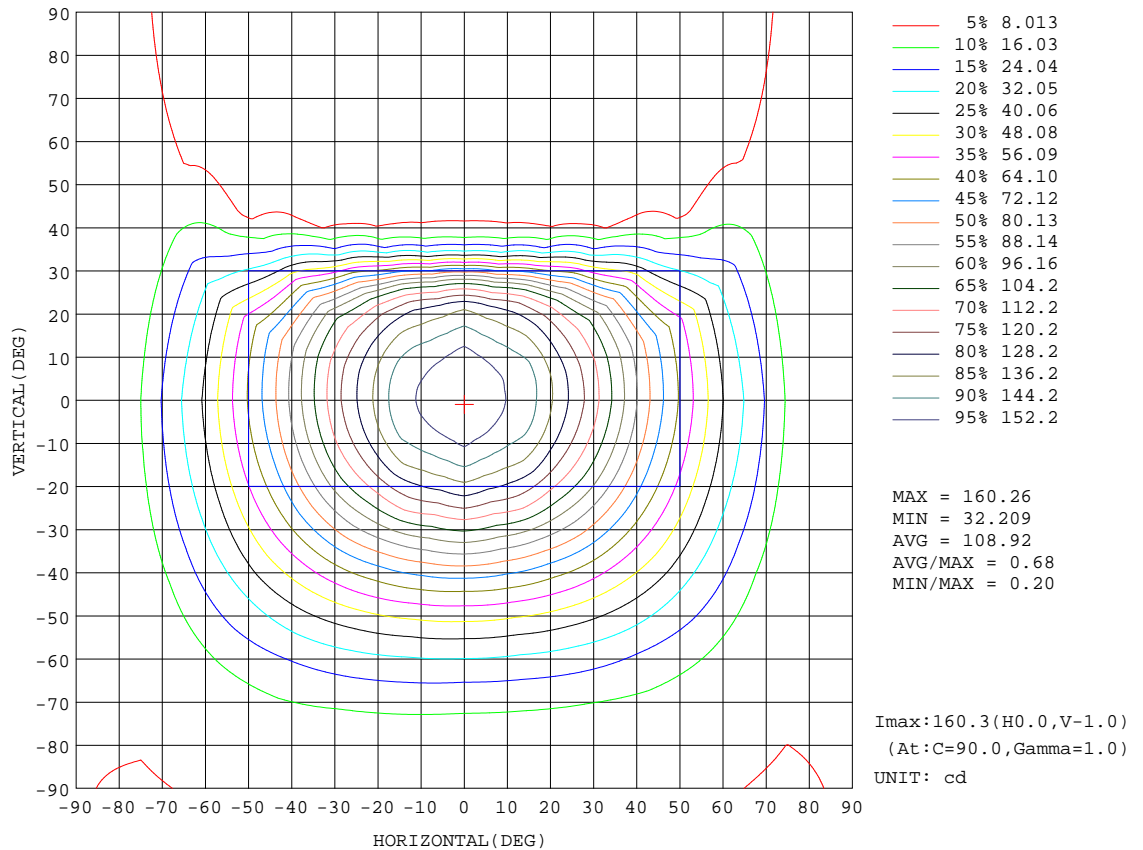
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	39	34	47	38	33	42	35	31	23
0.80	59	48	42	55	46	40	49	42	37	28
1.00	66	55	49	62	53	47	55	49	43	31
1.25	72	62	55	68	59	53	59	53	48	35
1.50	77	67	61	72	63	58	62	56	52	37
2.00	83	75	68	77	70	65	67	62	58	40
2.50	87	79	73	81	74	69	70	65	61	41
3.00	90	83	78	84	78	73	72	68	64	43
4.00	94	88	83	87	82	78	75	71	68	44
5.00	96	91	87	89	85	82	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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

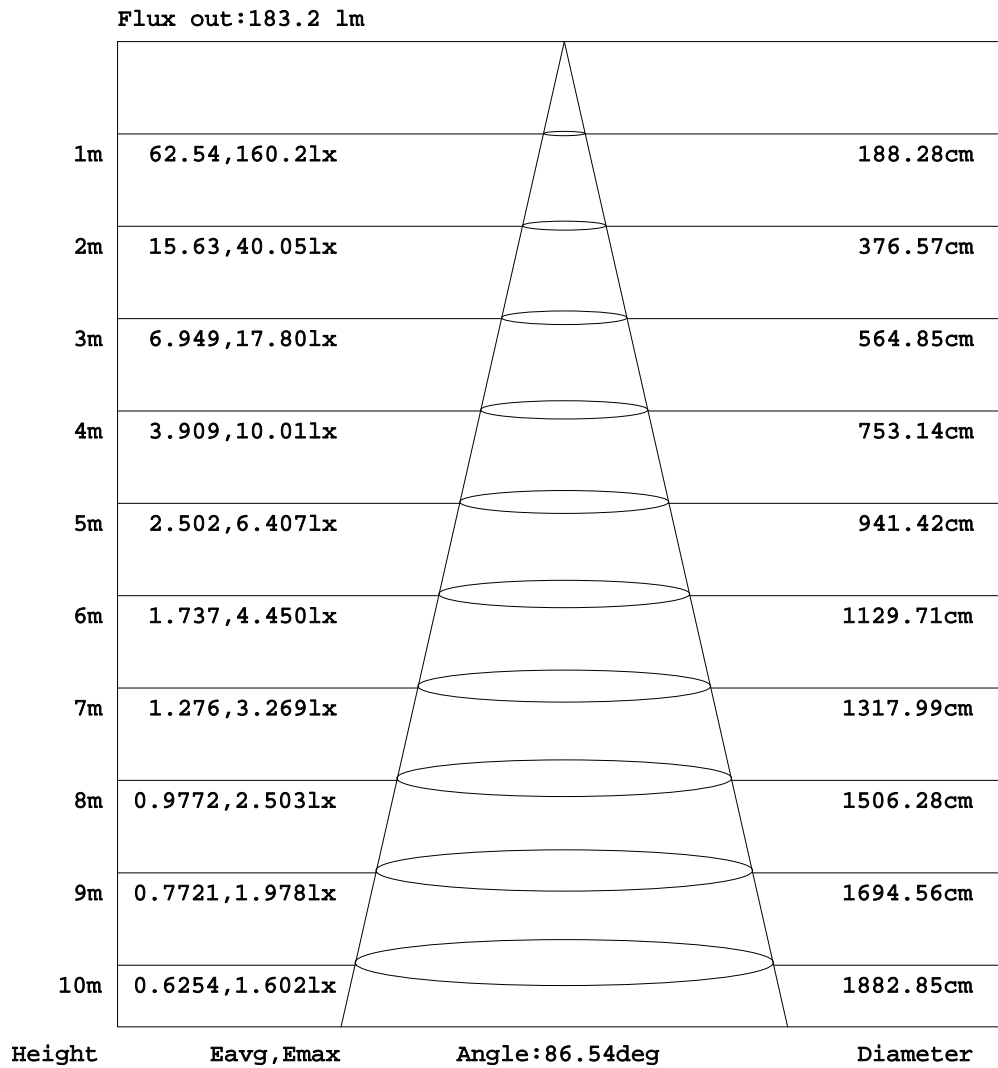


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:09 August 2023

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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



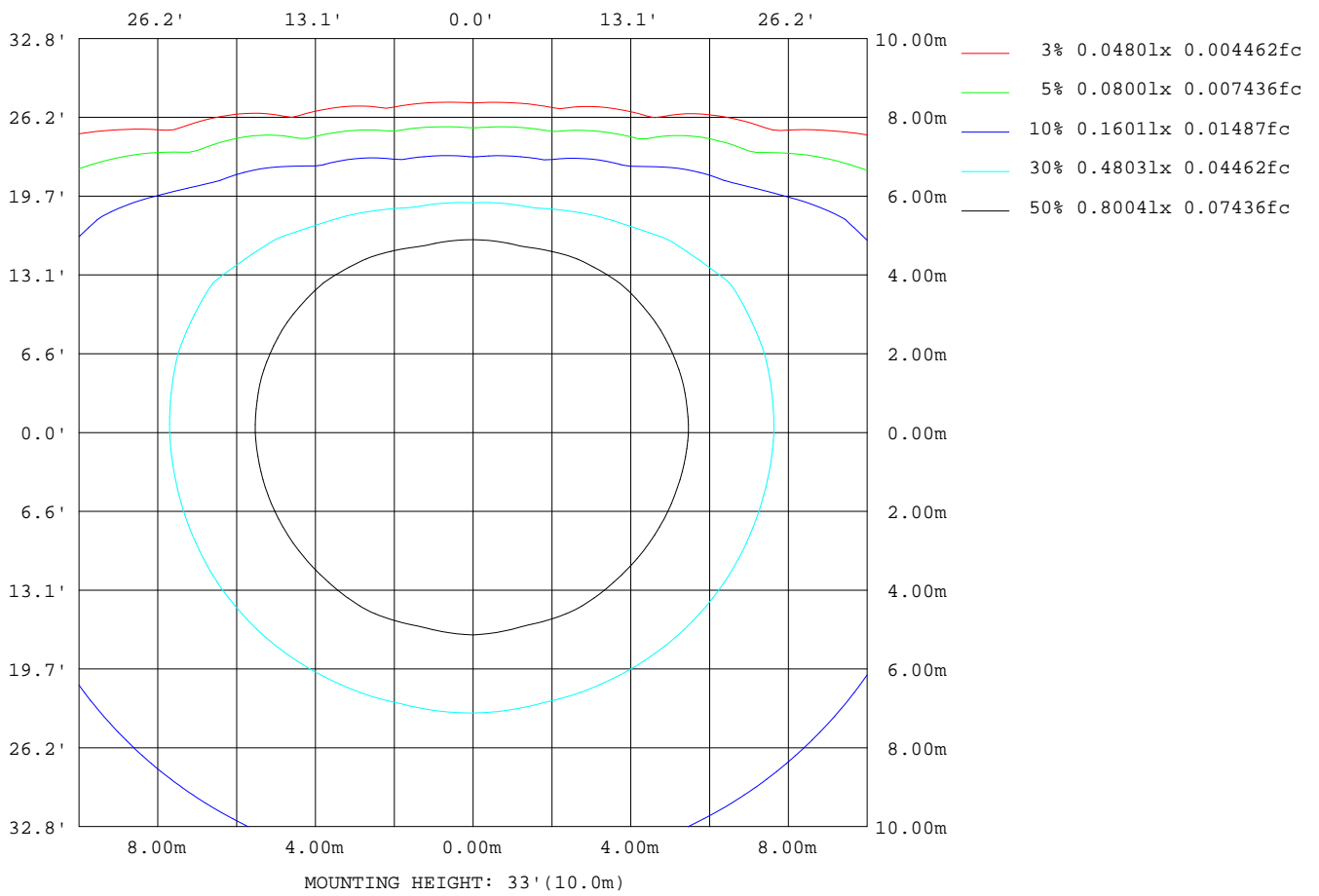
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

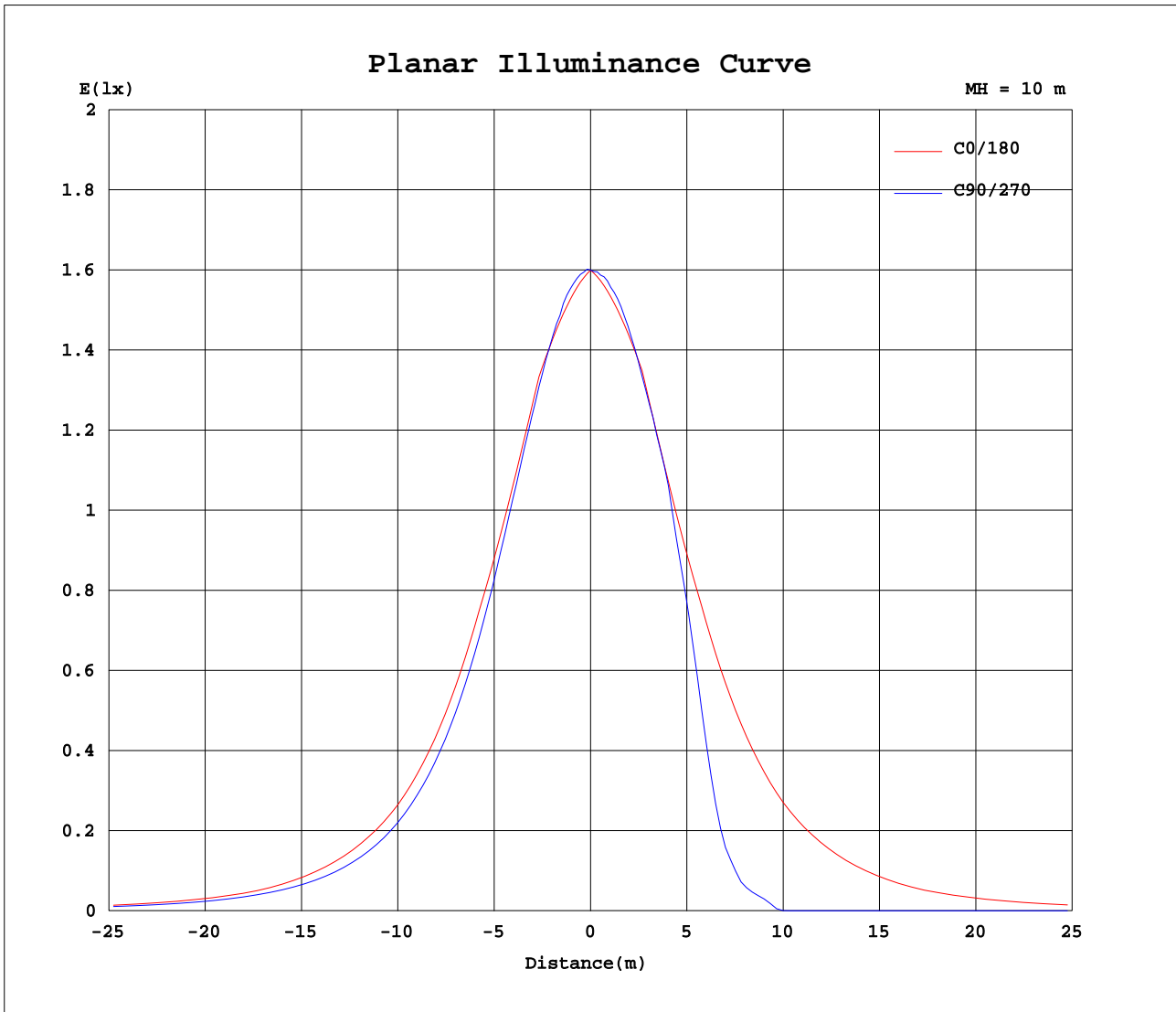
AvgL	cd/m2
L_0~180(65)av	1341
L_0~180(75)av	1050
L_0~180(85)av	2184
L_90~270(65)av	509
L_90~270(75)av	479
L_90~270(85)av	1226
L_45(65)av	597
L_45(75)av	555
L_45(85)av	1177

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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	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	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
5	156	156	156	156	157	157	158	158	157	157	157	157	157	157	157	157	158	158	159
10	152	152	151	151	151	152	153	152	151	152	152	153	153	153	153	153	153	154	155
15	148	147	146	144	143	143	145	143	143	145	147	149	150	149	148	147	146	146	148
20	137	136	136	135	132	132	134	132	133	137	138	138	139	139	139	139	136	136	138
25	126	125	123	122	121	118	120	119	122	124	125	127	128	129	128	127	124	116	117
30	116	113	110	108	107	104	105	105	108	110	113	115	117	118	116	111	99.0	81.1	77.1
35	102	99.4	97.3	94.2	91.8	89.3	90.1	90.2	93.2	96.1	99.6	101	104	105	103	87.0	56.9	33.5	28.8
40	88.4	85.9	83.4	81.0	77.4	75.5	75.6	76.3	78.9	83.1	85.9	87.9	90.0	91.2	85.9	54.4	20.7	11.6	10.5
45	74.9	72.4	70.3	67.8	64.5	63.0	62.4	63.8	66.0	69.7	72.6	74.4	76.5	77.7	64.4	23.3	6.99	1.25	0.10
50	63.3	60.7	58.0	55.4	53.1	51.0	50.8	51.9	54.6	57.5	60.2	62.5	64.8	65.4	40.0	7.36	0.07	0.05	0.05
55	51.7	49.3	47.3	44.7	42.5	40.6	40.6	41.5	43.9	46.6	49.3	51.1	53.1	52.5	21.0	1.01	0.05	0.04	0.04
60	40.1	38.0	37.1	35.3	33.3	31.9	31.9	32.7	34.7	37.1	39.0	39.7	41.5	38.9	9.52	0.98	0.04	0.03	0.03
65	31.8	29.3	28.0	26.7	25.6	24.7	24.6	25.6	26.9	28.6	29.8	30.9	33.0	28.4	4.58	0.97	0.03	0.03	0.03
70	23.4	21.1	20.7	19.8	19.2	18.5	18.5	19.3	20.4	21.5	22.5	22.8	24.5	19.4	4.45	0.95	0.03	0.03	0.02
75	15.0	12.9	13.8	14.6	14.3	14.1	14.2	14.7	15.3	15.9	15.5	14.7	16.0	11.1	4.41	0.93	0.03	0.03	0.02
80	12.9	10.5	10.5	10.4	12.1	12.0	11.9	12.3	12.6	11.5	11.9	11.8	13.5	9.79	4.36	0.95	0.03	0.04	0.02
85	10.8	8.81	9.48	10.3	11.3	12.0	12.2	12.2	11.6	10.9	10.3	9.52	10.9	9.25	4.31	0.87	0.04	0.05	0.02
90	8.74	7.09	8.46	10.1	11.3	12.1	12.3	12.3	11.6	10.4	8.83	7.24	8.36	8.76	4.32	0.85	0.04	0.05	0.03
95	10.6	8.86	9.58	10.4	11.2	11.9	12.0	12.1	11.5	11.0	10.3	9.34	10.6	9.33	4.17	0.79	0.03	0.04	0.02
100	12.6	10.6	10.7	10.7	12.0	12.1	12.1	12.4	12.5	11.6	11.7	11.4	12.9	9.92	4.10	0.78	0.03	0.03	0.02
105	14.5	13.0	13.8	14.5	14.4	14.3	14.3	14.8	15.2	15.6	15.2	14.1	15.2	11.2	4.04	0.74	0.03	0.03	0.02
110	22.3	20.4	20.1	19.3	18.7	18.1	18.0	18.6	19.6	20.6	21.6	21.8	23.3	19.1	4.03	0.72	0.03	0.02	0.02
115	30.1	27.9	26.7	25.4	24.3	23.1	23.0	23.8	25.3	27.0	28.5	29.6	31.5	27.6	4.00	0.70	0.03	0.03	0.02
120	38.0	36.1	35.1	33.1	31.0	29.4	29.3	30.0	32.0	34.7	37.1	38.1	39.7	37.4	9.70	0.67	0.04	0.03	0.03
125	49.2	46.9	44.7	41.6	39.0	37.1	36.9	37.6	40.2	43.4	46.9	49.0	51.1	50.4	22.7	0.62	0.05	0.04	0.04
130	60.5	57.8	54.9	51.6	48.6	46.2	45.8	46.9	49.9	53.6	57.2	60.1	62.5	62.8	41.8	9.78	0.09	0.06	0.05
135	71.8	69.4	66.8	63.2	59.2	57.1	56.3	57.8	60.6	65.1	69.2	71.8	73.8	74.8	63.2	28.4	9.76	3.67	0.49
140	85.3	82.9	79.8	76.0	71.5	69.0	68.9	69.7	72.8	78.2	82.1	85.1	87.2	87.6	82.5	58.6	27.0	15.8	14.2
145	98.7	96.5	93.6	89.2	85.6	82.5	83.0	83.2	86.8	91.1	95.7	98.6	100	101	98.1	85.8	63.4	42.5	38.1
150	112	110	107	103	101	97.2	98.4	97.8	102	105	109	112	114	114	111	107	98.1	85.4	83.3
155	123	122	120	118	115	112	114	113	116	119	121	123	124	124	122	121	120	114	115
160	134	134	133	132	128	127	129	127	129	133	134	135	135	135	134	133	131	131	133
165	145	145	143	141	139	139	141	139	139	141	143	145	145	145	143	141	140	141	143
170	149	149	149	148	148	149	150	149	148	148	149	149	149	149	149	148	148	149	150
175	153	153	153	153	154	154	155	155	154	154	153	153	153	153	153	153	153	154	155
180	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157

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:0.1756A P:20.730W PF:0.9838 Freq:60.00Hz Lamp Flux:531.948x1 lm		
NAME: LED Wall Pack	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS28S-MV-24D22CC-BK_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	160	160	160	160	160														
5	158	157	157	156	156														
10	154	153	152	153	152														
15	146	145	146	147	148														
20	135	136	137	138	138														
25	116	123	125	126	127														
30	80.6	97.7	109	114	116														
35	33.3	56.2	85.9	101	103														
40	11.5	20.5	53.7	84.1	89.1														
45	1.07	6.83	23.1	62.8	75.7														
50	0.05	0.11	7.35	39.1	63.5														
55	0.05	0.13	1.41	20.7	50.9														
60	0.04	0.10	1.39	9.65	37.6														
65	0.04	0.08	1.43	4.92	27.5														
70	0.03	0.10	1.46	4.81	18.9														
75	0.03	0.07	1.43	4.84	11.2														
80	0.03	0.08	1.44	4.79	9.93														
85	0.04	0.07	1.40	4.72	9.43														
90	0.05	0.06	1.41	4.75	8.98														
95	0.04	0.07	1.41	4.67	9.40														
100	0.03	0.08	1.43	4.67	9.87														
105	0.03	0.09	1.46	4.68	11.1														
110	0.03	0.13	1.50	4.67	18.8														
115	0.03	0.10	1.52	4.80	27.1														
120	0.04	0.15	1.50	10.7	36.7														
125	0.05	0.19	1.56	23.6	49.2														
130	0.06	0.16	10.5	42.6	61.2														
135	3.59	9.78	29.2	63.4	73.0														
140	15.7	27.3	59.4	81.9	86.1														
145	42.7	63.7	85.9	97.4	99.3														
150	85.3	97.8	106	110	112														
155	114	120	121	122	123														
160	131	131	133	134	134														
165	141	140	142	143	145														
170	149	148	148	149	149														
175	154	153	153	153	153														
180	157	157	157	157	157														

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: