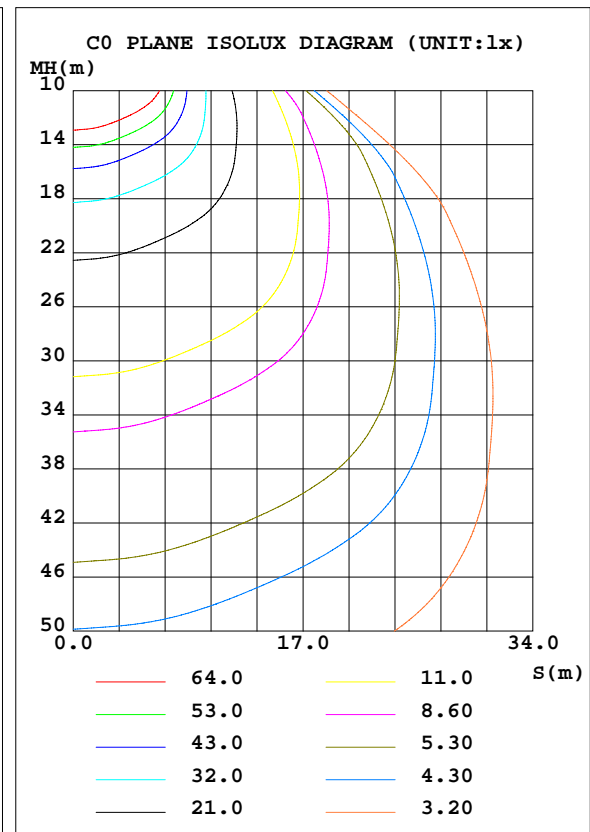
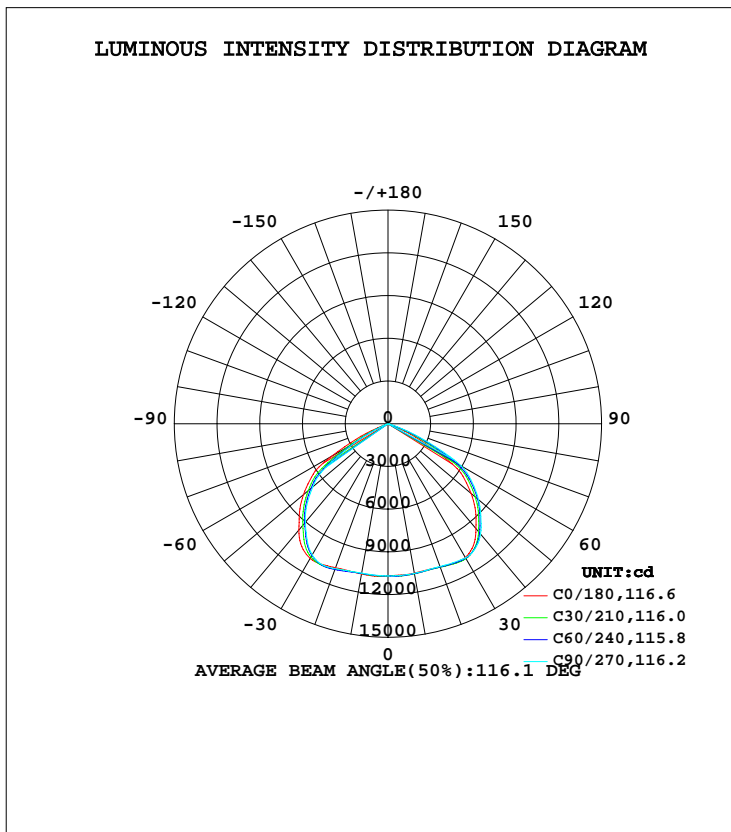


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148 lm/W			
MODEL	ASD-UHB22-200D50-MS	Imax(cd)	10987	S/MH(C0/180)	1.49
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.42
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	29600	η UP, DN(C0-180)	0.0,53.1
NOMINAL FLUX(lm)	29600	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,46.8
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1065	1070	1067	1064	1072	1068	1065	1059	0- 10	1019	1019	3.4,3.4
20	1071	1071	1067	1061	1076	1090	1083	1066	10- 20	3024	4043	13.5,13.5
30	1085	1091	1088	1086	1093	1076	1065	1070	20- 30	5008	9051	30.2,30.2
40	960.7	997.3	1012	1011	974.2	919.5	903.5	921.0	30- 40	6474	15525	51.9,51.9
50	762.0	813.8	830.0	817.6	775.0	718.5	690.3	705.4	40- 50	6685	22210	74.2,74.2
60	409.8	534.3	594.7	573.8	460.4	310.9	272.9	322.4	50- 60	5569	27778	92.8,92.8
70	9.344	59.95	106.6	92.98	12.14	4.704	3.744	4.100	60- 70	2049	29827	99.6,99.6
80	1.270	1.538	1.595	1.517	1.205	0.9529	0.8608	0.9178	70- 80	76.65	29904	99.9,99.9
90	0.0913	0.1433	0.1629	0.0953	0.1872	0.3579	0.2301	0.1014	80- 90	6.038	29910	99.9,99.9
100	0.0779	0.0598	0.0555	0.0608	0.1694	0.2057	0.2482	0.2228	90-100	1.320	29911	99.9,99.9
110	0.1557	0.1386	0.1356	0.1412	0.3081	0.3351	0.3565	0.3513	100-110	2.028	29913	99.9,99.9
120	0.2634	0.2356	0.2467	0.2547	0.3989	0.4571	0.4867	0.4672	110-120	2.871	29916	99.9,99.9
130	0.4385	0.3796	0.3949	0.4066	0.6337	0.7020	0.7563	0.6746	120-130	3.972	29920	99.9,99.9
140	0.6114	0.5347	0.5494	0.5583	0.8149	0.9070	0.9187	0.8585	130-140	4.936	29925	100,100
150	0.7201	0.6470	0.6731	0.6684	0.9482	1.006	0.9885	0.9549	140-150	4.864	29930	100,100
160	0.8396	0.7294	0.7237	0.7806	1.080	1.116	1.034	1.041	150-160	4.003	29934	100,100
170	0.9321	0.8765	0.8341	0.9090	1.134	1.143	1.074	1.048	160-170	2.716	29937	100,100
180	0.8095	0.8095	0.8095	0.8095	0.9575	0.9575	0.9575	0.9575	170-180	0.9637	29938	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18912 lm

%lum = 63.2%

%lamp = 63.2%

Conical surface Flux(120deg): 27778 lm

%lum = 92.8%

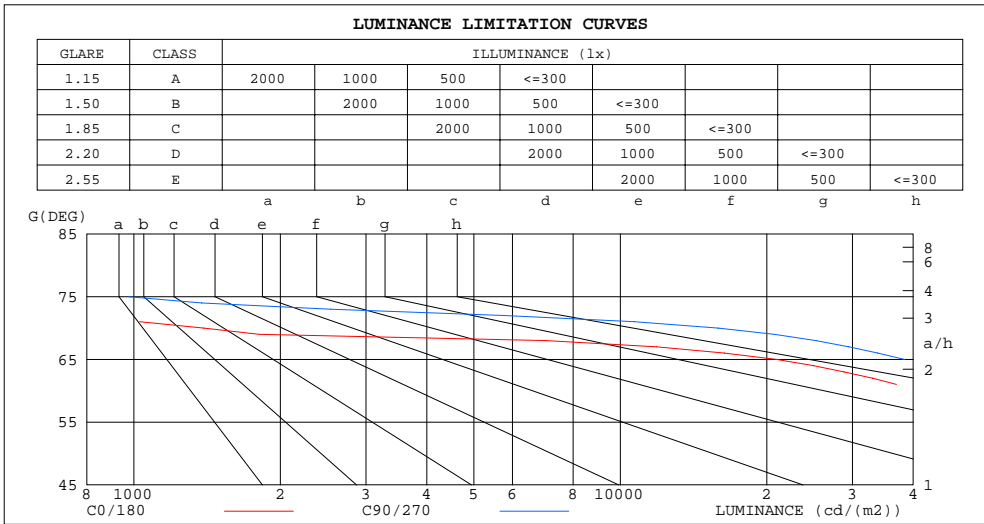
%lamp = 92.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	244	444
80	373	468
75	422	976
70	1392	15886
65	20964	38425
60	41765	60611
55	57049	64295
50	60402	65799
45	62699	66495

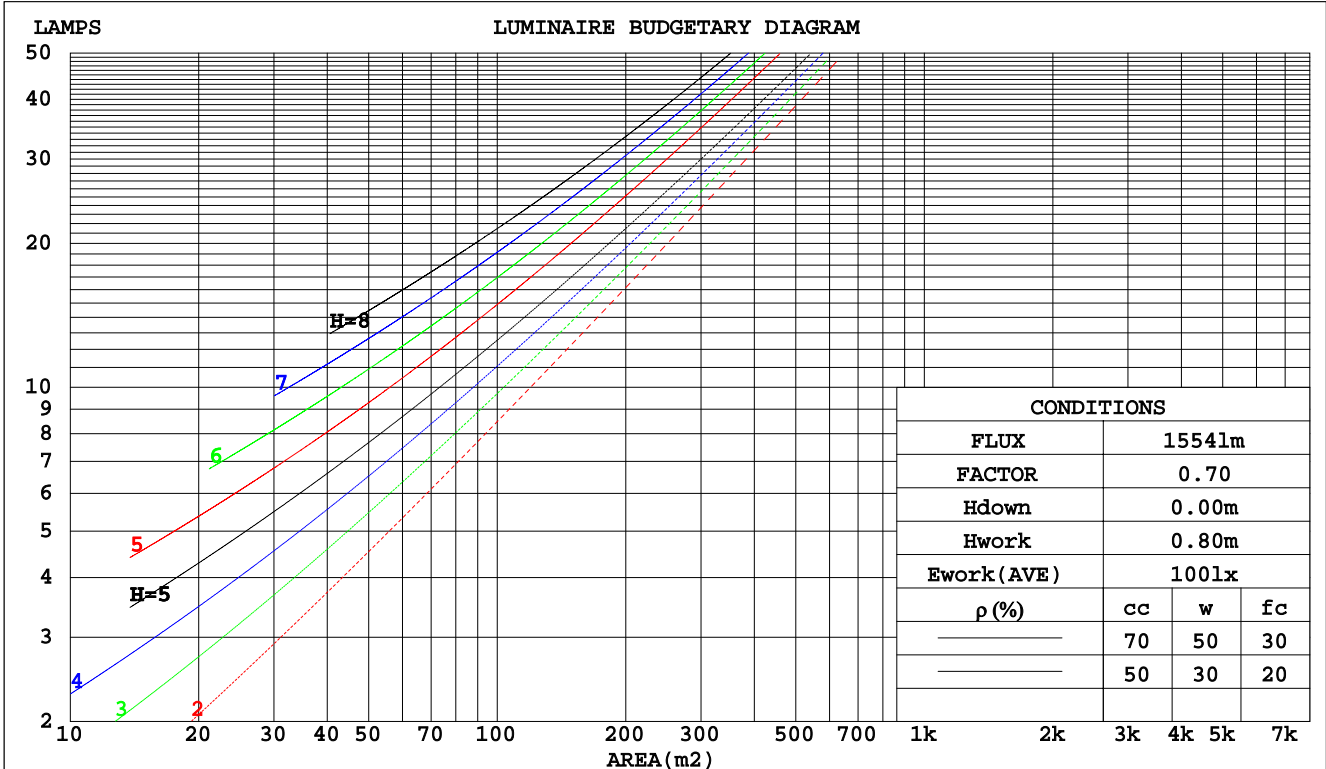
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.95	.90	.85	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.71	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.70	.64	.60	.67	.63	.59	.57
5.0	.68	.59	.53	.67	.59	.53	.65	.58	.52	.63	.57	.52	.61	.56	.51	.49
6.0	.61	.53	.47	.60	.52	.46	.58	.51	.46	.57	.50	.46	.55	.50	.45	.43
7.0	.55	.47	.41	.54	.47	.41	.53	.46	.41	.51	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.37	.50	.42	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.30
10.0	.42	.35	.30	.42	.34	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	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	.247	.140	.044	.240	.137	.043	.227	.130	.042	.215	.124	.040	.204	.118	.038	
2.0	.245	.134	.041	.239	.132	.041	.228	.127	.039	.217	.122	.038	.207	.117	.037	
3.0	.235	.125	.038	.230	.123	.037	.220	.119	.036	.211	.116	.035	.202	.112	.035	
4.0	.224	.116	.034	.219	.115	.034	.210	.111	.033	.202	.108	.033	.194	.106	.032	
5.0	.211	.108	.031	.207	.106	.031	.199	.104	.031	.192	.101	.030	.185	.099	.030	
6.0	.199	.100	.029	.195	.099	.028	.188	.097	.028	.182	.094	.028	.176	.092	.027	
7.0	.188	.093	.026	.184	.092	.026	.178	.090	.026	.172	.088	.026	.167	.087	.025	
8.0	.177	.086	.024	.174	.086	.024	.168	.084	.024	.163	.083	.024	.158	.081	.024	
9.0	.167	.081	.023	.164	.080	.022	.159	.079	.022	.154	.077	.022	.150	.076	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.021	

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	.191	.191	.191	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.140	.151	.135	.121	.103	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.167	.133	.104	.143	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.159	.115	.080	.136	.099	.069	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.151	.101	.063	.130	.087	.055	.089	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.144	.091	.051	.124	.078	.044	.085	.055	.031	.050	.032	.018	.016	.010	.006	
6.0	.138	.082	.042	.119	.071	.037	.082	.050	.026	.047	.029	.015	.015	.010	.005	
7.0	.132	.075	.035	.113	.065	.031	.078	.046	.022	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.031	.109	.060	.027	.075	.042	.019	.044	.025	.011	.014	.008	.004	
9.0	.121	.065	.027	.104	.056	.023	.072	.039	.017	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.024	.099	.052	.021	.069	.037	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB22-200D50-MS					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	26.8	28.3	27.1	28.6	28.9	27.7	29.2	28.1	29.5	29.9
3H	26.7	28.0	27.1	28.4	28.7	28.0	29.3	28.4	29.7	30.0
4H	26.6	27.9	27.0	28.2	28.6	27.9	29.2	28.3	29.5	29.9
6H	26.6	27.7	27.0	28.1	28.5	27.9	29.0	28.3	29.4	29.8
8H	26.5	27.6	27.0	28.0	28.4	27.8	28.9	28.3	29.3	29.7
12H	26.5	27.5	26.9	27.9	28.4	27.8	28.8	28.2	29.2	29.7
4H 2H	27.0	28.2	27.4	28.6	28.9	27.9	29.1	28.3	29.5	29.9
3H	26.9	27.9	27.3	28.3	28.7	28.2	29.2	28.6	29.6	30.0
4H	26.8	27.7	27.3	28.1	28.6	28.1	29.0	28.5	29.4	29.9
6H	26.8	27.5	27.2	28.0	28.4	28.0	28.8	28.5	29.3	29.7
8H	26.7	27.4	27.2	27.9	28.4	28.0	28.7	28.5	29.2	29.6
12H	26.7	27.3	27.2	27.8	28.3	28.0	28.6	28.4	29.1	29.6
8H 4H	26.7	27.4	27.2	27.9	28.4	28.0	28.7	28.5	29.2	29.6
6H	26.6	27.2	27.1	27.7	28.2	27.9	28.5	28.4	29.0	29.5
8H	26.6	27.1	27.1	27.6	28.1	27.9	28.4	28.4	28.9	29.4
12H	26.5	27.0	27.0	27.5	28.1	27.8	28.3	28.3	28.8	29.4
12H 4H	26.7	27.3	27.2	27.8	28.3	28.0	28.6	28.5	29.1	29.6
6H	26.6	27.1	27.1	27.6	28.1	27.9	28.4	28.4	28.9	29.4
8H	26.5	27.0	27.0	27.5	28.1	27.8	28.3	28.3	28.8	29.4
CIE190: 2010										

CIE190: 2010
Area: 0.19625 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 23 January 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 48.6%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

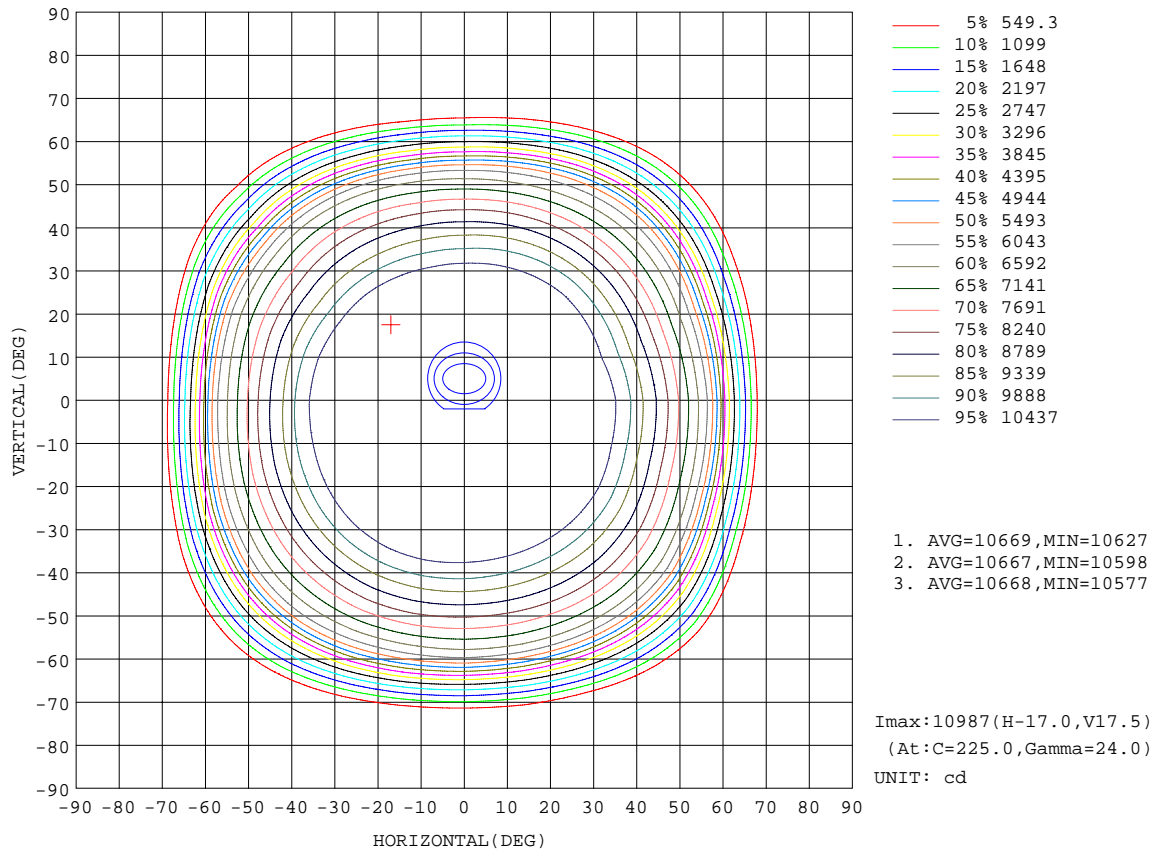
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	43	60	49	42	58	49	42	36
0.80	72	61	54	71	60	54	69	60	53	47
1.00	81	71	65	80	71	64	78	72	64	57
1.25	88	79	73	87	79	73	85	77	72	66
1.50	93	85	79	92	84	78	89	82	77	71
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
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: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

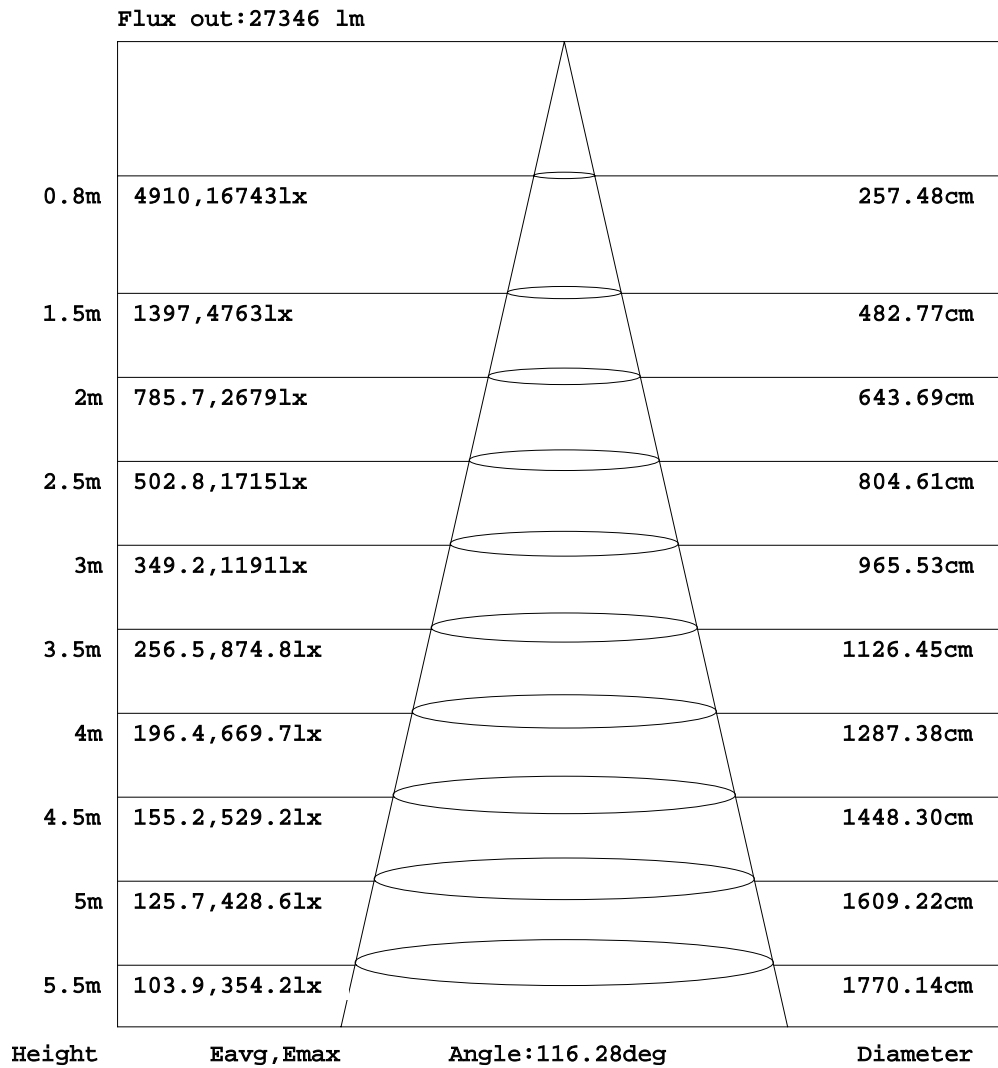


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance:2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



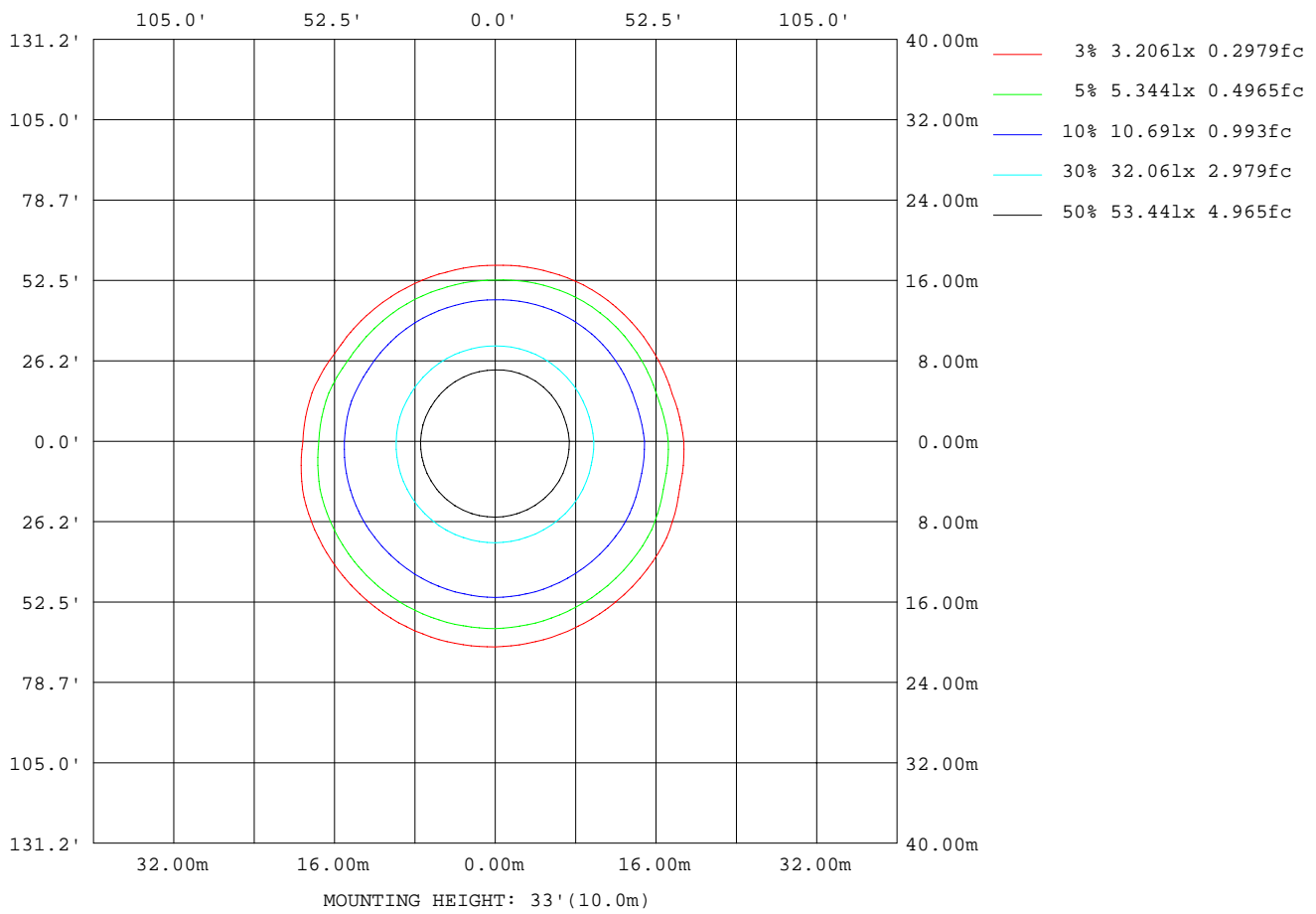
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	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: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

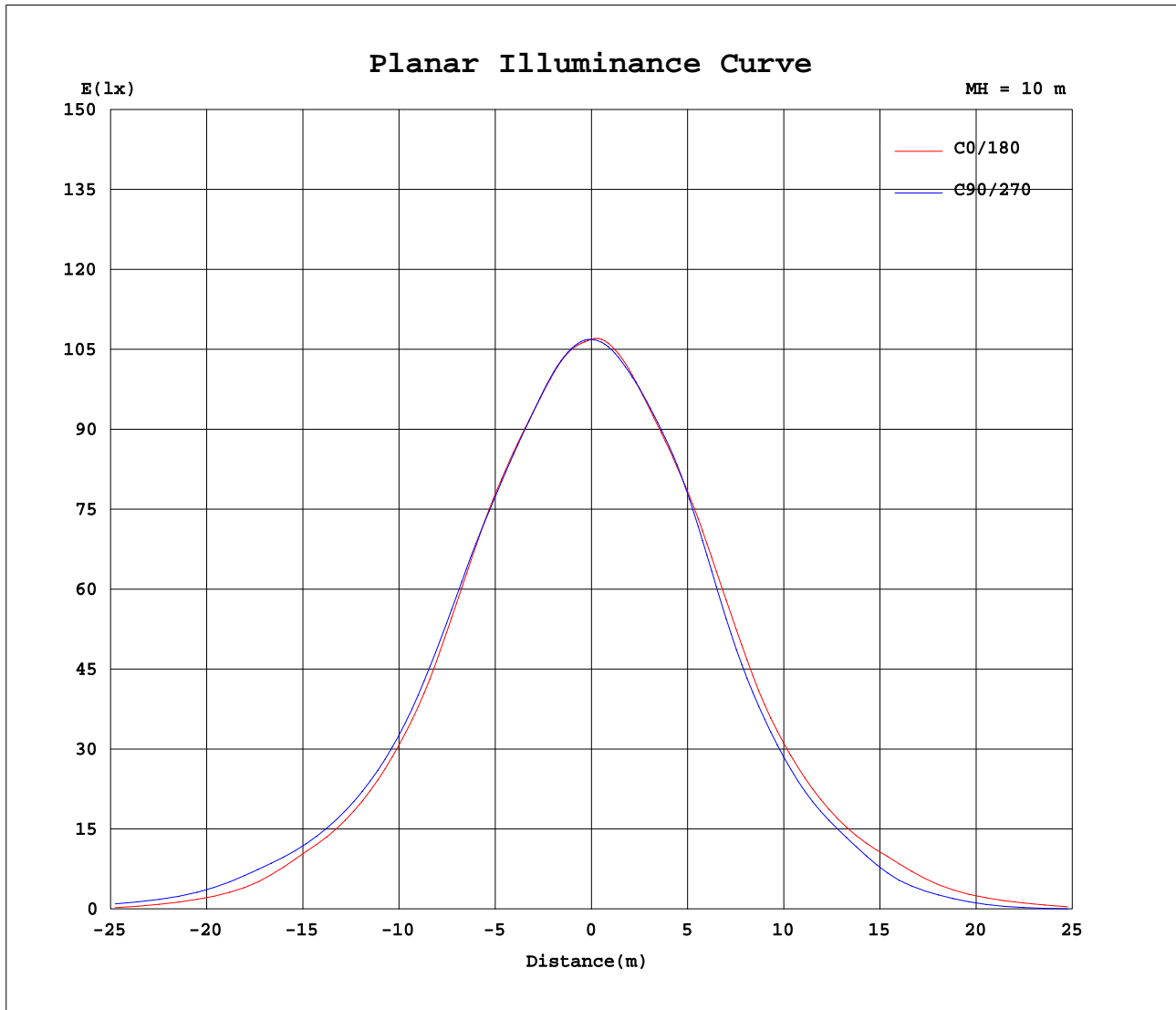
AvgL	cd/m2
L_0~180(65)av	23131
L_0~180(75)av	433
L_0~180(85)av	254
L_90~270(65)av	23238
L_90~270(75)av	656
L_90~270(85)av	284
L_45(65)av	23582
L_45(75)av	544
L_45(85)av	271

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069
5	1067	1071	1073	1073	1072	1070	1069	1068	1067	1066	1069	1073	1074	1072	1071	1070	1069	1068	1067
10	1065	1069	1070	1070	1069	1068	1067	1066	1065	1064	1064	1067	1072	1070	1069	1068	1068	1067	1065
15	1062	1066	1067	1067	1066	1065	1064	1063	1062	1060	1060	1062	1069	1069	1071	1073	1075	1074	1071
20	1071	1074	1072	1071	1070	1069	1067	1064	1062	1061	1062	1065	1076	1080	1086	1090	1090	1087	1083
25	1084	1088	1086	1084	1083	1081	1078	1075	1075	1074	1073	1076	1090	1094	1098	1099	1096	1094	1093
30	1085	1090	1094	1091	1091	1091	1088	1085	1085	1086	1084	1084	1093	1088	1081	1076	1068	1064	1065
35	1045	1050	1062	1063	1066	1069	1069	1071	1072	1070	1065	1057	1055	1043	1023	1011	999	991	991
40	961	968	990	997	1002	1006	1012	1017	1016	1011	1002	991	974	957	930	919	910	904	903
45	870	876	899	909	914	919	923	926	924	916	906	895	879	865	839	830	819	808	806
50	762	771	800	814	821	826	830	833	829	818	808	797	775	760	731	718	706	694	690
55	642	655	687	699	709	719	724	723	717	705	695	680	656	645	603	578	554	533	530
60	410	433	507	534	557	579	595	590	585	574	556	527	460	422	339	311	287	273	273
65	174	191	248	268	288	307	319	327	321	304	287	263	210	185	122	97.6	81.5	66.4	66.8
70	9.34	15.7	43.9	60.0	73.8	97.1	107	108	103	93.0	78.3	61.4	12.1	15.7	6.14	4.70	4.10	3.96	3.74
75	2.15	2.21	2.87	3.39	3.89	4.74	4.96	4.97	4.79	4.09	3.42	2.76	2.25	2.11	1.76	1.74	1.73	1.71	1.70
80	1.27	1.31	1.49	1.54	1.58	1.61	1.60	1.58	1.56	1.52	1.46	1.37	1.21	1.16	0.98	0.95	0.92	0.88	0.86
85	0.42	0.50	0.70	0.75	0.77	0.78	0.76	0.73	0.70	0.66	0.62	0.58	0.45	0.42	0.29	0.28	0.27	0.25	0.21
90	0.09	0.11	0.11	0.14	0.17	0.17	0.16	0.15	0.12	0.10	0.08	0.08	0.19	0.27	0.35	0.36	0.33	0.29	0.23
95	0.05	0.05	0.10	0.14	0.15	0.15	0.12	0.10	0.08	0.07	0.06	0.07	0.10	0.10	0.12	0.12	0.13	0.14	0.14
100	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.17	0.17	0.20	0.21	0.22	0.25
105	0.12	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.25	0.26	0.28	0.28	0.30	0.31	0.31
110	0.16	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.31	0.31	0.33	0.34	0.34	0.35	0.36
115	0.20	0.19	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.35	0.35	0.37	0.38	0.39	0.40	0.41
120	0.26	0.25	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.40	0.41	0.44	0.46	0.47	0.48	0.49
125	0.34	0.32	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.32	0.32	0.51	0.52	0.55	0.57	0.59	0.61	0.61
130	0.44	0.41	0.37	0.38	0.39	0.38	0.39	0.40	0.41	0.41	0.40	0.41	0.63	0.65	0.68	0.70	0.73	0.75	0.76
135	0.53	0.51	0.46	0.46	0.48	0.47	0.48	0.48	0.50	0.48	0.49	0.50	0.75	0.77	0.79	0.82	0.83	0.86	0.86
140	0.61	0.60	0.55	0.53	0.55	0.53	0.55	0.56	0.56	0.56	0.56	0.59	0.81	0.84	0.87	0.91	0.91	0.94	0.92
145	0.67	0.67	0.62	0.61	0.61	0.60	0.61	0.61	0.62	0.62	0.61	0.65	0.88	0.91	0.94	0.96	0.98	0.99	0.97
150	0.72	0.71	0.67	0.65	0.67	0.68	0.67	0.68	0.68	0.67	0.66	0.69	0.95	0.97	0.98	1.01	1.01	1.02	0.99
155	0.78	0.77	0.74	0.69	0.69	0.69	0.69	0.71	0.71	0.72	0.73	0.74	1.00	1.01	1.04	1.05	1.04	1.04	0.99
160	0.84	0.83	0.80	0.73	0.73	0.73	0.72	0.75	0.76	0.78	0.80	0.81	1.08	1.08	1.09	1.12	1.11	1.09	1.03
165	0.87	0.87	0.85	0.82	0.79	0.78	0.75	0.81	0.84	0.87	0.87	0.88	1.12	1.12	1.14	1.16	1.16	1.14	1.09
170	0.93	0.93	0.91	0.88	0.85	0.84	0.83	0.87	0.90	0.91	0.91	0.92	1.13	1.13	1.13	1.14	1.14	1.12	1.07
175	1.02	0.99	0.96	0.93	0.91	0.90	0.89	0.90	0.92	0.94	0.95	0.97	1.14	1.14	1.14	1.15	1.14	1.12	1.09
180	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.96	0.96	0.96	0.96	0.96	0.96	0.96

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:1.6667A P:200W PF:0.9994 Freq:60.01Hz Lamp Flux:29600x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-200D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1069	1069	1069	1069	1069														
5	1066	1066	1065	1064	1064														
10	1063	1061	1059	1058	1059														
15	1066	1060	1056	1054	1054														
20	1078	1072	1066	1062	1062														
25	1087	1083	1080	1075	1075														
30	1066	1068	1070	1068	1068														
35	1002	1010	1018	1020	1022														
40	910	915	921	926	932														
45	811	815	818	826	837														
50	692	698	705	713	724														
55	548	568	581	589	598														
60	286	309	322	333	348														
65	84.3	101	112	120	128														
70	3.86	3.72	4.10	4.70	6.27														
75	1.73	1.77	1.83	1.91	1.99														
80	0.84	0.85	0.92	0.98	1.07														
85	0.19	0.17	0.17	0.19	0.25														
90	0.17	0.12	0.10	0.09	0.10														
95	0.14	0.14	0.14	0.13	0.12														
100	0.24	0.23	0.22	0.21	0.20														
105	0.31	0.30	0.30	0.29	0.28														
110	0.36	0.36	0.35	0.34	0.32														
115	0.41	0.41	0.40	0.39	0.36														
120	0.49	0.48	0.47	0.45	0.43														
125	0.61	0.59	0.57	0.55	0.53														
130	0.74	0.72	0.67	0.66	0.64														
135	0.83	0.80	0.77	0.77	0.76														
140	0.88	0.86	0.86	0.85	0.82														
145	0.94	0.93	0.91	0.91	0.89														
150	0.96	0.95	0.95	0.96	0.93														
155	0.98	0.98	0.98	1.02	0.97														
160	1.00	1.02	1.04	1.06	1.00														
165	1.06	1.06	1.07	1.08	1.03														
170	1.06	1.05	1.05	1.07	1.01														
175	1.06	1.06	1.07	1.08	1.05														
180	0.96	0.96	0.96	0.96	0.96														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks: