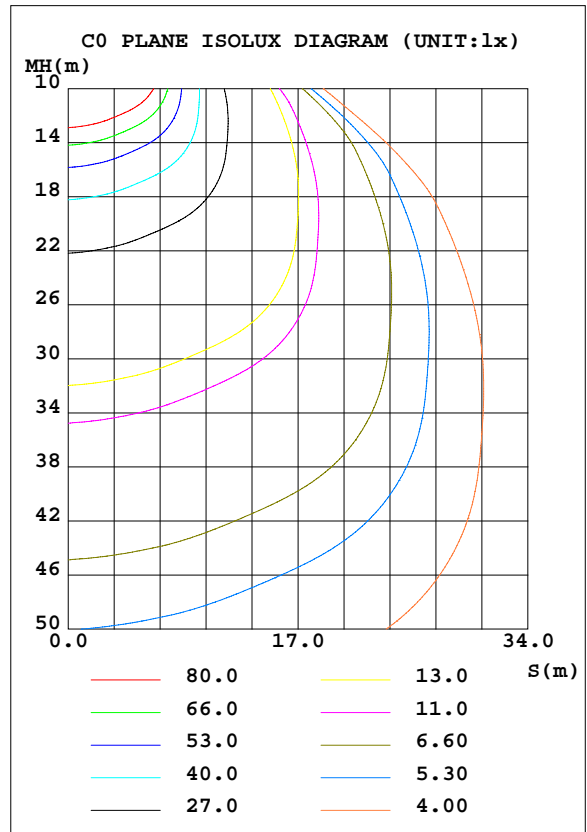
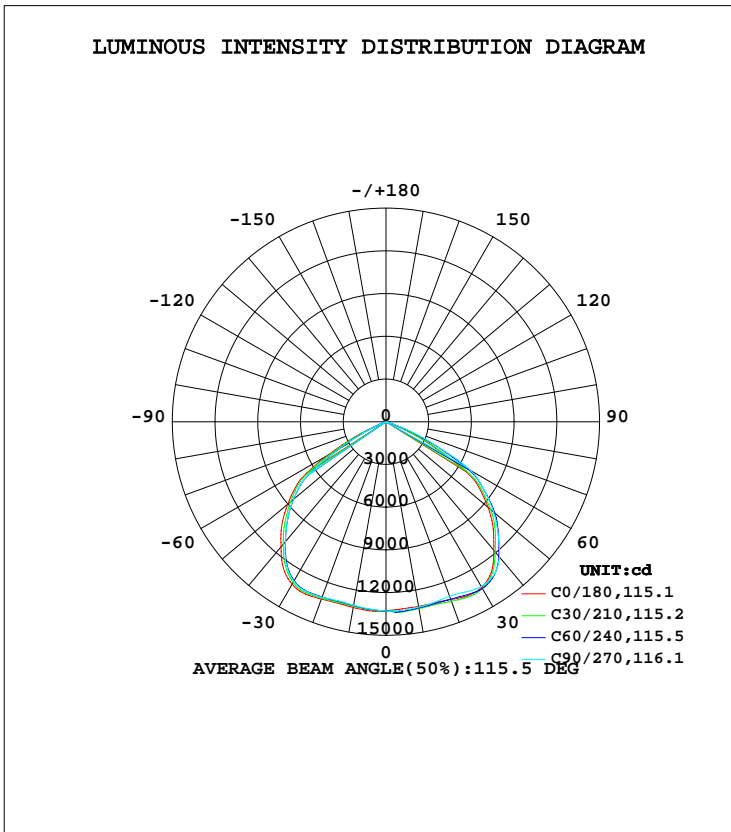


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148 lm/W			
MODEL	ASD-UHB22-240D50-MS	I _{max} (cd)	13618	S/MH(C0/180)	1.44
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.41
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	35520	η UP, DN(C0-180)	0.0,52.7
NOMINAL FLUX(lm)	35520	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,47.2
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 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	1317	1330	1321	1312	1325	1313	1309	1309	0- 10	1263	1263	3.49,3.49
20	1329	1336	1305	1301	1326	1314	1312	1306	10- 20	3721	4984	13.8,13.8
30	1343	1357	1335	1318	1318	1290	1294	1300	20- 30	6125	11109	30.7,30.7
40	1178	1219	1239	1192	1147	1100	1101	1118	30- 40	7865	18974	52.5,52.5
50	936.4	987.9	985.9	954.2	901.7	851.1	847.7	861.3	40- 50	8037	27011	74.7,74.7
60	528.7	637.6	691.1	612.5	473.4	376.5	374.0	412.6	50- 60	6685	33696	93.2,93.2
70	51.21	71.22	99.69	86.47	7.831	4.774	4.424	5.277	60- 70	2354	36050	99.7,99.7
80	1.609	2.045	1.987	1.812	1.350	0.8286	0.7534	1.060	70- 80	78.68	36128	99.9,99.9
90	0.4513	0.8916	0.3734	0.4644	0.3204	0.1369	0.1049	0.2310	80- 90	7.740	36136	99.9,99.9
100	0.0930	0.0762	0.0757	0.0812	0.2206	0.2457	0.2584	0.2336	90-100	2.533	36139	99.9,99.9
110	0.1814	0.1752	0.2049	0.1794	0.3832	0.3998	0.4074	0.3882	100-110	2.455	36141	99.9,99.9
120	0.3083	0.2859	0.3053	0.3128	0.4916	0.5535	0.5766	0.5376	110-120	3.440	36145	99.9,99.9
130	0.5121	0.4654	0.4873	0.5014	0.7823	0.8554	0.9164	0.7942	120-130	4.779	36149	99.9,99.9
140	0.7132	0.6434	0.6848	0.6836	0.9988	1.101	1.108	1.016	130-140	5.960	36155	100,100
150	0.8429	0.7842	0.8104	0.8174	1.174	1.220	1.196	1.137	140-150	5.877	36161	100,100
160	1.018	0.8815	0.8764	0.9324	1.308	1.347	1.270	1.259	150-160	4.832	36166	100,100
170	1.140	1.064	1.008	1.109	1.379	1.382	1.315	1.268	160-170	3.288	36169	100,100
180	1.102	1.102	1.102	1.102	1.221	1.221	1.221	1.221	170-180	1.164	36170	100,100
DEG	LUMINOUS INTENSITY: $\times 10$ cd									UNIT:lm		

Conical surface Flux(90deg): 23051 lm

%lum = 63.7%

%lamp = 63.7%

Conical surface Flux(120deg): 33696 lm

%lum = 93.2%

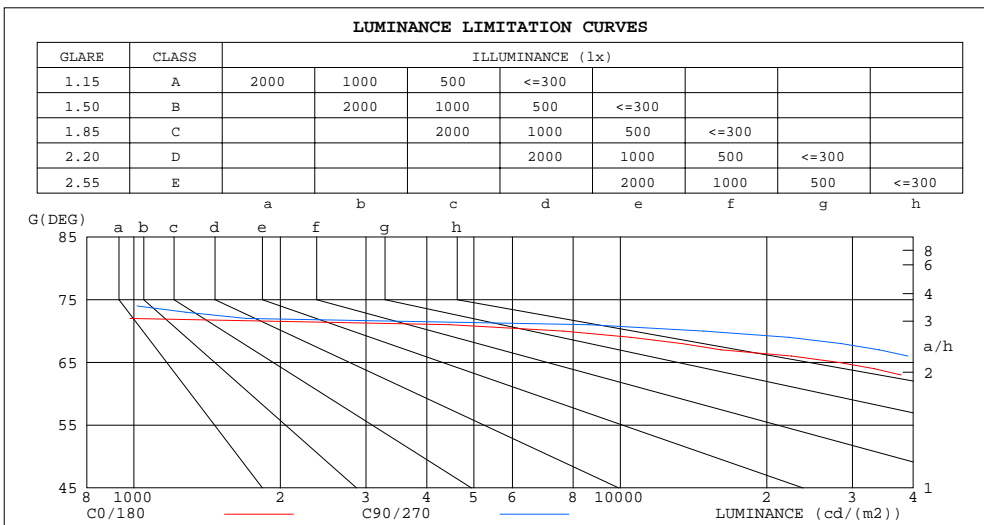
%lamp = 93.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	411	581
80	472	583
75	508	719
70	7630	14851
65	28154	43552
60	53878	70428
55	70401	75122
50	74231	78158
45	76811	80156

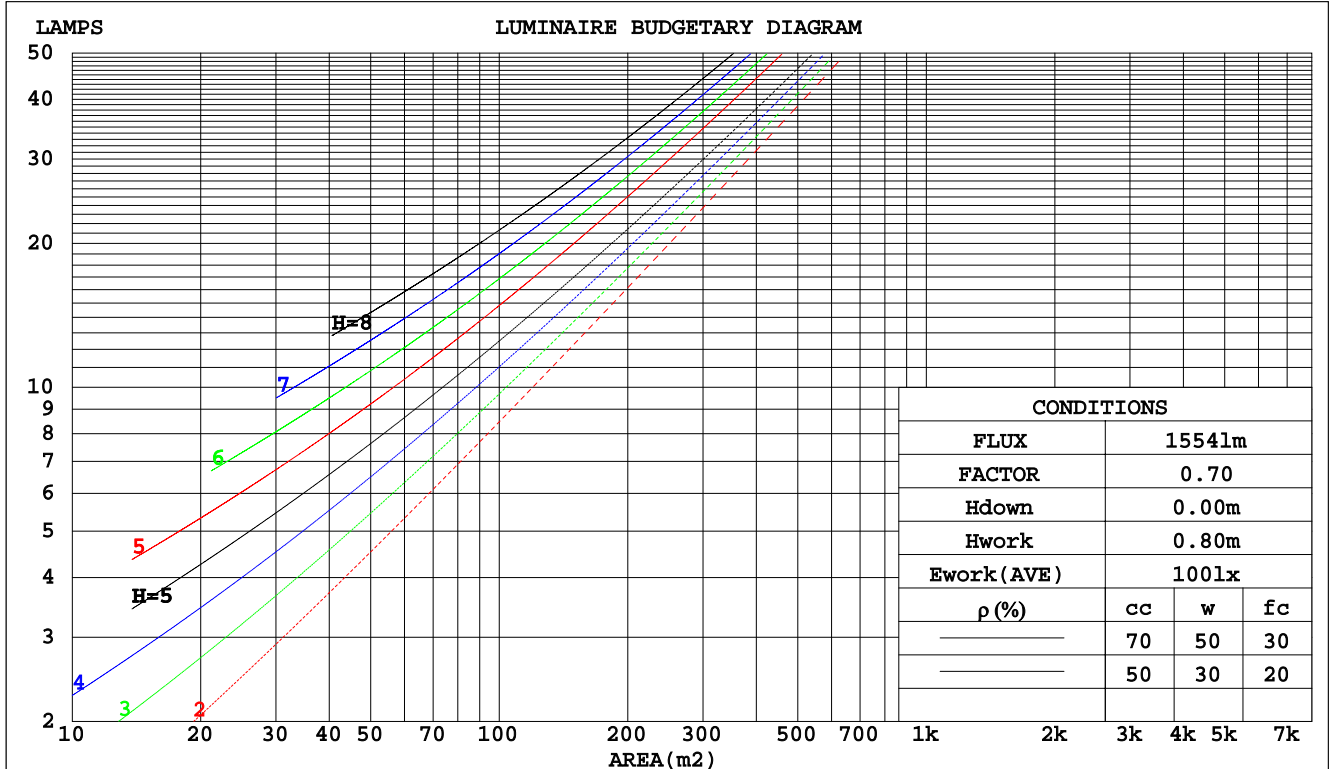
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 xl lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.71	.81	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.67	.61	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.61	.53	.47	.60	.52	.47	.59	.52	.46	.57	.51	.46	.55	.50	.46	.44
7.0	.56	.47	.41	.55	.47	.41	.53	.46	.41	.52	.45	.41	.50	.45	.40	.39
8.0	.51	.42	.37	.50	.42	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.29	.28



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-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	.245	.139	.044	.238	.136	.043	.225	.129	.041	.213	.123	.040	.202	.117	.038	
2.0	.243	.133	.041	.237	.131	.040	.226	.126	.039	.216	.121	.038	.206	.117	.037	
3.0	.234	.125	.037	.229	.123	.037	.219	.119	.036	.210	.115	.035	.201	.111	.034	
4.0	.222	.116	.034	.218	.114	.034	.209	.111	.033	.201	.108	.033	.193	.105	.032	
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.030	
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.181	.094	.028	.175	.092	.027	
7.0	.187	.092	.026	.184	.091	.026	.177	.090	.026	.171	.088	.026	.166	.086	.025	
8.0	.176	.086	.024	.173	.085	.024	.168	.084	.024	.162	.082	.024	.157	.081	.024	
9.0	.166	.081	.022	.164	.080	.022	.159	.078	.022	.154	.077	.022	.149	.076	.022	
10.0	.158	.076	.021	.155	.075	.021	.151	.074	.021	.146	.073	.021	.142	.071	.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	.059	.054	.049	.019	.017	.016	
2.0	.167	.133	.105	.143	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.158	.115	.080	.136	.099	.069	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.151	.101	.063	.130	.087	.055	.089	.061	.039	.052	.036	.023	.017	.012	.008	
5.0	.144	.091	.051	.124	.078	.044	.085	.055	.031	.049	.032	.019	.016	.010	.006	
6.0	.138	.082	.042	.118	.071	.037	.082	.050	.026	.047	.029	.015	.015	.010	.005	
7.0	.132	.075	.036	.113	.065	.031	.078	.046	.022	.045	.027	.013	.015	.009	.004	
8.0	.126	.069	.031	.108	.060	.027	.075	.042	.019	.044	.025	.011	.014	.008	.004	
9.0	.120	.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: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm										
NAME: ASD lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB22-240D50-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	27.5	29.0	27.9	29.4	29.7	28.0	29.5	28.4	29.9	30.2
3H	27.5	28.9	27.9	29.2	29.6	28.2	29.6	28.6	29.9	30.3
4H	27.5	28.7	27.9	29.1	29.4	28.2	29.4	28.6	29.8	30.2
6H	27.4	28.5	27.8	28.9	29.3	28.1	29.3	28.5	29.6	30.0
8H	27.4	28.4	27.8	28.8	29.2	28.1	29.2	28.5	29.6	30.0
12H	27.3	28.4	27.8	28.8	29.2	28.0	29.1	28.5	29.5	29.9
4H 2H	27.7	28.9	28.1	29.3	29.7	28.1	29.4	28.5	29.7	30.1
3H	27.7	28.7	28.1	29.1	29.5	28.3	29.3	28.8	29.8	30.2
4H	27.6	28.5	28.1	28.9	29.4	28.3	29.2	28.7	29.6	30.0
6H	27.6	28.3	28.0	28.8	29.2	28.2	29.0	28.7	29.4	29.9
8H	27.5	28.2	28.0	28.7	29.1	28.2	28.9	28.6	29.3	29.8
12H	27.5	28.1	28.0	28.6	29.1	28.1	28.8	28.6	29.2	29.7
8H 4H	27.5	28.2	28.0	28.7	29.1	28.2	28.9	28.6	29.3	29.8
6H	27.4	28.0	27.9	28.5	29.0	28.1	28.7	28.6	29.2	29.6
8H	27.4	27.9	27.9	28.4	28.9	28.0	28.5	28.5	29.1	29.6
12H	27.3	27.8	27.8	28.3	28.9	28.0	28.4	28.5	28.9	29.5
12H 4H	27.5	28.1	28.0	28.6	29.1	28.1	28.8	28.6	29.2	29.7
6H	27.4	27.9	27.9	28.4	28.9	28.0	28.6	28.6	29.0	29.6
8H	27.3	27.8	27.8	28.3	28.9	28.0	28.4	28.5	28.9	29.5
CIE190: 2010										

CIE190: 2010
Area: 0.19625 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Alan Wang
Test Date: 27 January 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 48.3%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:

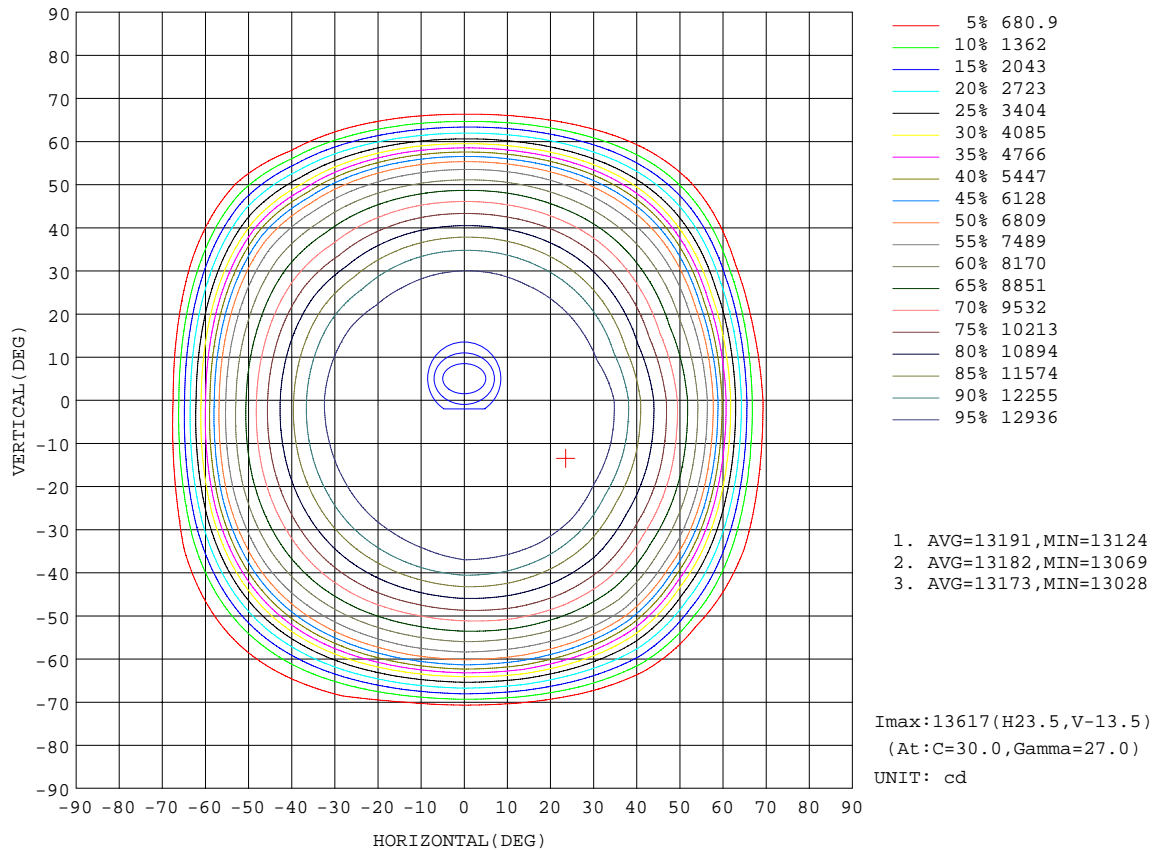
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	43	60	49	43	59	49	43	37
0.80	72	61	54	71	61	54	69	60	54	47
1.00	81	72	65	80	71	65	78	72	64	58
1.25	89	80	74	87	79	73	85	78	72	66
1.50	94	85	79	92	84	79	89	83	78	71
2.00	100	93	88	98	92	87	95	90	85	79
2.50	103	97	92	101	95	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	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: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:

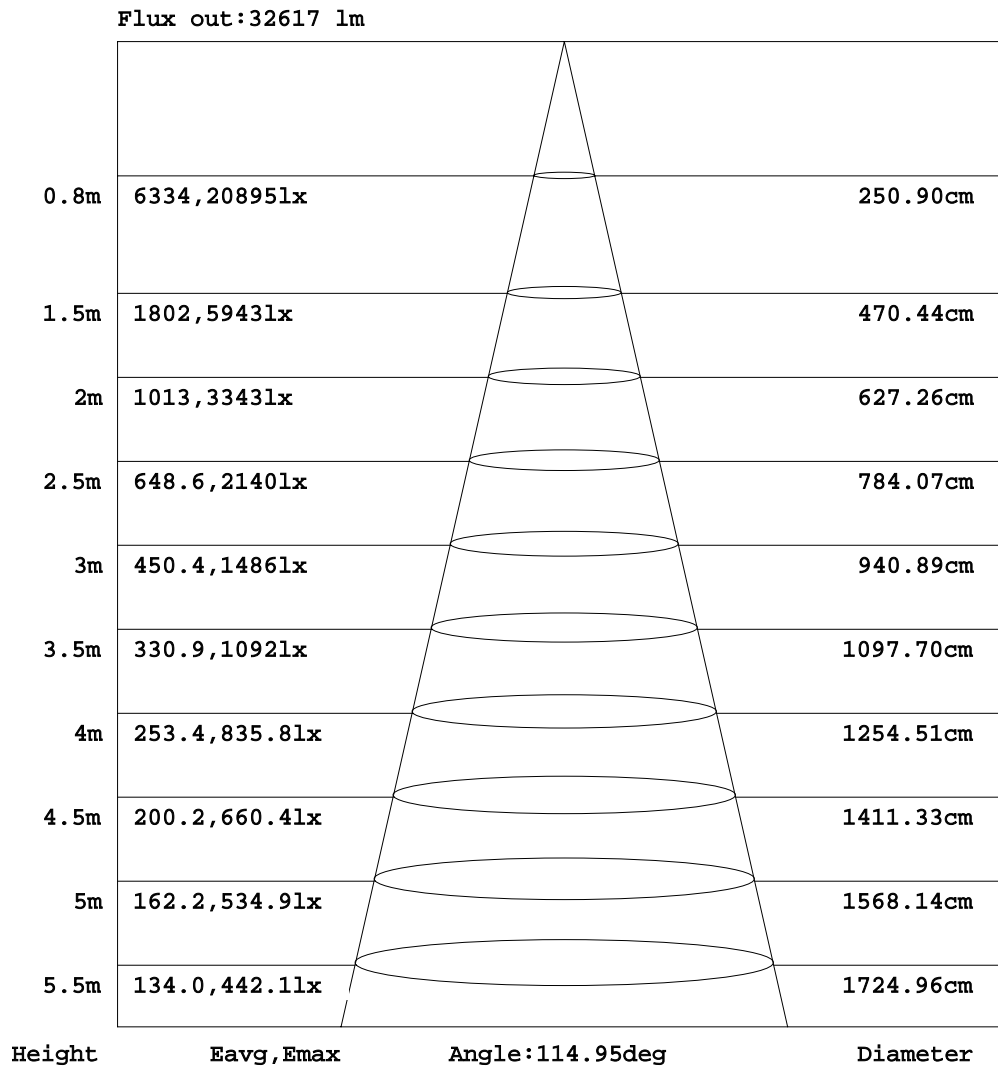


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:



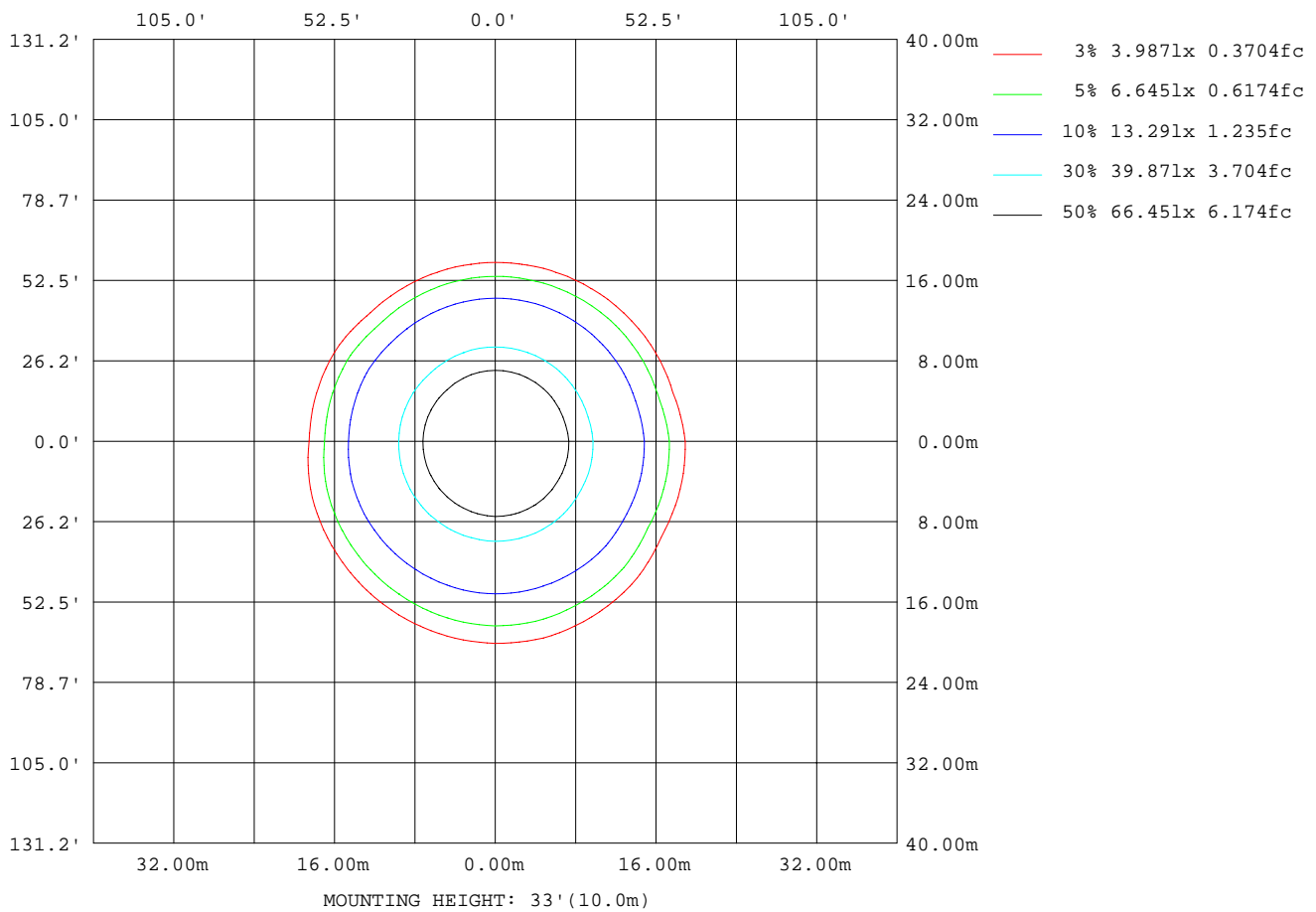
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-MS	DIM.:	SERIAL No.:
MFR.: ASD lighting Corp	SUR.:	Shielding Angle:

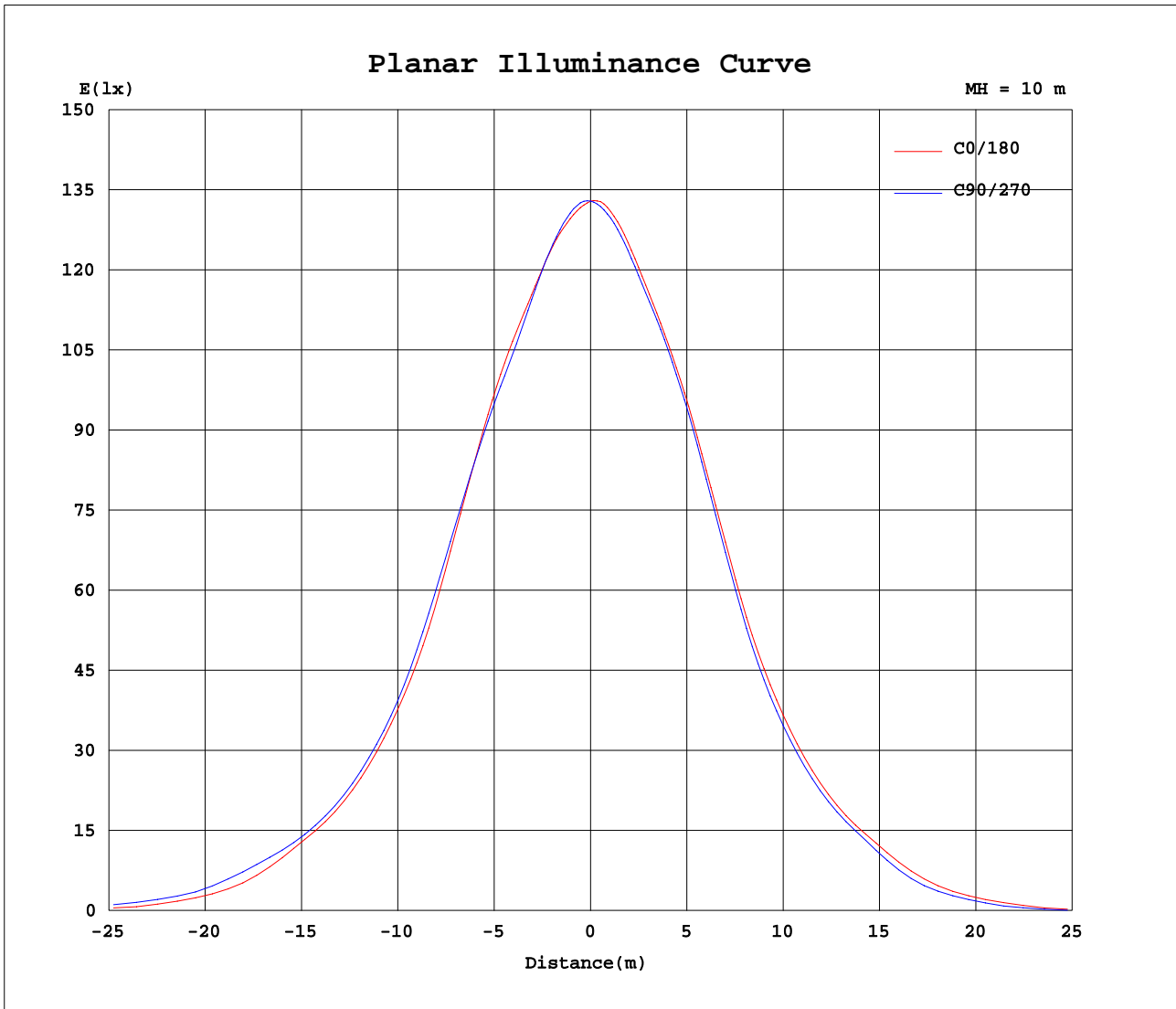
AvgL	cd/m2
L_0~180(65)av	25894
L_0~180(75)av	491
L_0~180(85)av	367
L_90~270(65)av	28742
L_90~270(75)av	529
L_90~270(85)av	332
L_45(65)av	26282
L_45(75)av	521
L_45(85)av	358

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Alan Wang
Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 48.3%
Test Distance: 2.500m [K=1.0459]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-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	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329	1329
5	1319	1329	1341	1338	1336	1332	1330	1326	1323	1320	1330	1336	1332	1329	1325	1323	1322	1321	1320
10	1317	1333	1332	1330	1328	1325	1321	1319	1315	1312	1310	1323	1325	1321	1317	1313	1311	1310	1309
15	1316	1330	1330	1327	1323	1317	1312	1308	1305	1303	1301	1310	1319	1316	1312	1308	1305	1303	1302
20	1329	1341	1342	1336	1327	1316	1305	1301	1300	1301	1303	1312	1326	1322	1319	1314	1311	1311	1312
25	1349	1359	1358	1350	1341	1331	1319	1309	1310	1313	1315	1322	1336	1330	1326	1319	1315	1315	1317
30	1343	1352	1352	1357	1353	1343	1335	1322	1319	1318	1316	1316	1318	1312	1305	1290	1289	1292	1294
35	1290	1298	1299	1317	1320	1318	1317	1300	1289	1280	1270	1263	1256	1244	1233	1214	1216	1219	1221
40	1178	1190	1194	1219	1234	1240	1239	1224	1207	1192	1176	1162	1147	1135	1123	1100	1099	1100	1101
45	1066	1080	1085	1108	1117	1119	1112	1100	1090	1078	1064	1051	1036	1021	1005	978	978	980	980
50	936	954	959	988	999	999	986	973	967	954	938	924	902	887	876	851	848	846	848
55	792	805	811	841	845	847	846	832	822	810	802	787	759	747	740	702	694	694	698
60	529	548	558	638	665	686	691	673	641	612	582	545	473	458	435	377	374	375	374
65	234	245	256	314	339	362	361	346	323	295	271	247	196	183	171	115	113	118	116
70	51.2	58.2	19.6	71.2	92.7	102	99.7	95.4	99.8	86.5	72.6	59.2	7.83	8.98	7.16	4.77	4.66	4.63	4.42
75	2.58	2.76	2.94	3.69	3.80	3.67	3.65	3.68	3.56	3.18	2.80	2.53	2.41	2.26	2.07	1.75	1.70	1.70	1.73
80	1.61	1.72	1.79	2.05	2.08	2.06	1.99	1.95	1.90	1.81	1.70	1.57	1.35	1.22	1.09	0.83	0.76	0.74	0.75
85	0.70	0.81	0.86	1.07	1.08	1.04	0.99	0.96	0.94	0.90	0.84	0.74	0.55	0.44	0.34	0.20	0.16	0.15	0.14
90	0.45	0.63	0.69	0.89	0.64	0.49	0.37	0.37	0.39	0.46	0.49	0.42	0.32	0.26	0.19	0.14	0.11	0.10	0.10
95	0.05	0.07	0.17	0.62	0.39	0.23	0.21	0.19	0.18	0.16	0.09	0.06	0.12	0.13	0.15	0.15	0.16	0.16	0.16
100	0.09	0.11	0.10	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.17	0.20	0.22	0.22	0.22	0.25	0.25	0.26	0.26
105	0.13	0.13	0.13	0.12	0.13	0.26	0.18	0.35	0.13	0.12	0.13	0.13	0.32	0.32	0.32	0.34	0.34	0.34	0.34
110	0.18	0.18	0.18	0.18	0.18	0.23	0.20	0.23	0.18	0.18	0.18	0.18	0.38	0.38	0.38	0.40	0.41	0.41	0.41
115	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.43	0.43	0.43	0.46	0.47	0.47	0.48
120	0.31	0.30	0.29	0.29	0.29	0.30	0.31	0.31	0.31	0.31	0.31	0.30	0.49	0.50	0.52	0.55	0.57	0.57	0.58
125	0.40	0.38	0.37	0.36	0.38	0.38	0.39	0.40	0.41	0.41	0.39	0.39	0.62	0.63	0.64	0.70	0.72	0.73	0.74
130	0.51	0.49	0.47	0.47	0.47	0.47	0.49	0.49	0.50	0.50	0.49	0.49	0.78	0.80	0.81	0.86	0.89	0.91	0.92
135	0.62	0.61	0.58	0.56	0.59	0.57	0.58	0.59	0.61	0.59	0.60	0.60	0.92	0.94	0.95	1.00	1.02	1.04	1.03
140	0.71	0.71	0.68	0.64	0.67	0.66	0.68	0.69	0.69	0.68	0.70	0.71	1.00	1.03	1.04	1.10	1.11	1.13	1.11
145	0.79	0.79	0.76	0.74	0.74	0.74	0.75	0.75	0.75	0.76	0.75	0.78	1.09	1.12	1.13	1.17	1.19	1.21	1.19
150	0.84	0.85	0.81	0.78	0.82	0.82	0.81	0.82	0.82	0.82	0.80	0.82	1.17	1.19	1.19	1.22	1.23	1.24	1.20
155	0.92	0.93	0.90	0.83	0.84	0.84	0.85	0.87	0.87	0.86	0.87	0.88	1.23	1.23	1.25	1.27	1.26	1.26	1.21
160	1.02	1.01	0.97	0.88	0.88	0.88	0.88	0.92	0.92	0.93	0.96	0.95	1.31	1.30	1.30	1.35	1.36	1.34	1.27
165	1.08	1.08	1.05	0.99	0.94	0.93	0.90	0.98	1.01	1.05	1.06	1.04	1.35	1.35	1.37	1.40	1.42	1.40	1.34
170	1.14	1.13	1.11	1.06	1.03	1.01	1.01	1.06	1.09	1.11	1.10	1.09	1.38	1.37	1.37	1.38	1.39	1.37	1.31
175	1.25	1.20	1.15	1.09	1.07	1.06	1.07	1.08	1.10	1.12	1.13	1.14	1.38	1.38	1.38	1.39	1.39	1.36	1.31
180	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.22	1.22	1.22	1.22	1.22	1.22	1.22

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:2.0 A P:240 W PF:0.9994 Freq:60.01Hz Lamp Flux:35520 x1 lm		
NAME: ASD lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-240D50-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	1329	1329	1329	1329	1329														
5	1319	1319	1319	1319	1319														
10	1309	1309	1309	1309	1310														
15	1302	1302	1301	1301	1303														
20	1309	1307	1306	1308	1311														
25	1315	1313	1315	1320	1326														
30	1295	1295	1300	1305	1312														
35	1224	1227	1234	1241	1250														
40	1105	1111	1118	1125	1135														
45	982	990	998	1005	1017														
50	852	854	861	869	883														
55	701	709	718	734	748														
60	380	395	413	427	445														
65	125	134	149	165	176														
70	4.55	4.59	5.28	6.57	7.99														
75	1.80	1.87	1.97	2.07	2.23														
80	0.83	0.93	1.06	1.18	1.30														
85	0.16	0.20	0.29	0.36	0.46														
90	0.10	0.14	0.23	0.40	0.48														
95	0.16	0.15	0.15	0.45	0.23														
100	0.25	0.24	0.23	0.23	0.21														
105	0.34	0.33	0.32	0.31	0.30														
110	0.40	0.40	0.39	0.38	0.36														
115	0.47	0.46	0.45	0.44	0.41														
120	0.57	0.56	0.54	0.52	0.49														
125	0.73	0.71	0.67	0.64	0.60														
130	0.89	0.87	0.79	0.77	0.75														
135	0.99	0.95	0.92	0.90	0.88														
140	1.06	1.03	1.02	1.00	0.96														
145	1.14	1.11	1.08	1.07	1.04														
150	1.14	1.14	1.14	1.14	1.09														
155	1.17	1.17	1.17	1.22	1.15														
160	1.21	1.23	1.26	1.28	1.19														
165	1.28	1.27	1.29	1.32	1.21														
170	1.27	1.27	1.27	1.31	1.18														
175	1.27	1.27	1.31	1.30	1.22														
180	1.22	1.22	1.22	1.22	1.22														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks: