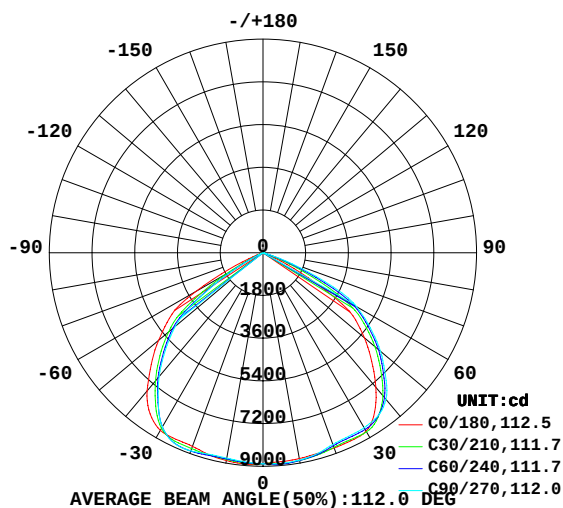


LUMINAIRE PHOTOMETRIC TEST REPORT

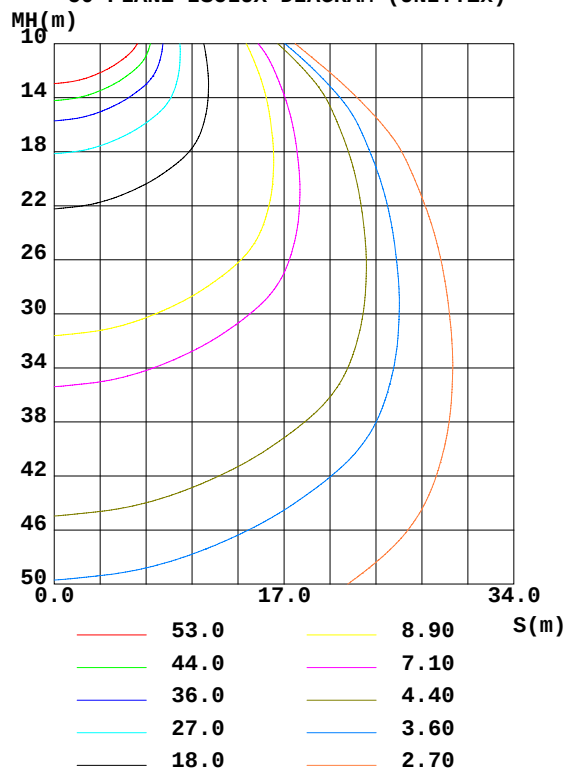
Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148 lm/W			
MODEL	ASD-UHB22-150D50-MS	I _{max} (cd)	8951	S/MH(C0/180)	1.43
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	22200	η UP, DN(C0-180)	0.0, 54.8
NOMINAL FLUX(lm)	22200	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 45.1
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 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	8807	8897	8866	8828	8891	8837	8785	8737	0- 10	846.1	846.1	3.69, 3.69
20	8755	8696	8597	8602	8682	8844	8884	8693	10- 20	2485	3331	14.5, 14.5
30	8681	8657	8517	8491	8644	8524	8478	8463	20- 30	4006	7337	32, 32
40	7397	7947	8061	7997	7597	6970	6807	6803	30- 40	5056	12393	54.1, 54.1
50	5583	6305	6468	6311	5743	5068	4828	4963	40- 50	5059	17452	76.2, 76.2
60	2599	4225	4559	4423	3279	1541	1222	1464	50- 60	3930	21382	93.3, 93.3
70	86.83	598.6	1019	864.3	132.9	32.54	19.91	23.59	60- 70	1410	22793	99.5, 99.5
80	8.251	12.72	14.62	13.75	9.434	6.514	4.478	4.047	70- 80	90.02	22883	99.9, 99.9
90	2.728	2.137	2.288	1.742	8.971	9.559	3.152	0.9174	80- 90	6.815	22889	99.9, 99.9
100	0.5650	0.3964	0.3243	0.3922	1.132	1.596	2.735	1.795	90-100	2.074	22892	99.9, 99.9
110	1.128	0.8889	0.8545	0.8788	2.180	2.515	2.742	2.673	100-110	1.512	22893	99.9, 99.9
120	1.938	1.620	1.665	1.696	2.938	3.640	3.925	3.712	110-120	2.112	22895	99.9, 99.9
130	3.292	2.695	2.791	2.848	4.802	5.662	6.094	5.425	120-130	3.029	22898	99.9, 99.9
140	4.695	3.960	4.127	4.093	6.308	7.208	7.330	6.823	130-140	3.788	22902	100, 100
150	5.663	5.009	5.144	5.113	7.484	8.031	7.817	7.596	140-150	3.784	22906	100, 100
160	6.661	5.717	5.694	6.034	8.622	8.986	8.422	8.415	150-160	3.166	22909	100, 100
170	7.386	6.813	6.494	7.150	9.098	9.129	8.679	8.428	160-170	2.150	22911	100, 100
180	7.917	7.917	7.917	7.917	7.789	7.789	7.789	7.789	170-180	0.7598	22912	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 14985 lm

%lum = 65.4%

%lamp = 65.4%

Conical surface Flux(120deg): 21382 lm

%lum = 93.3%

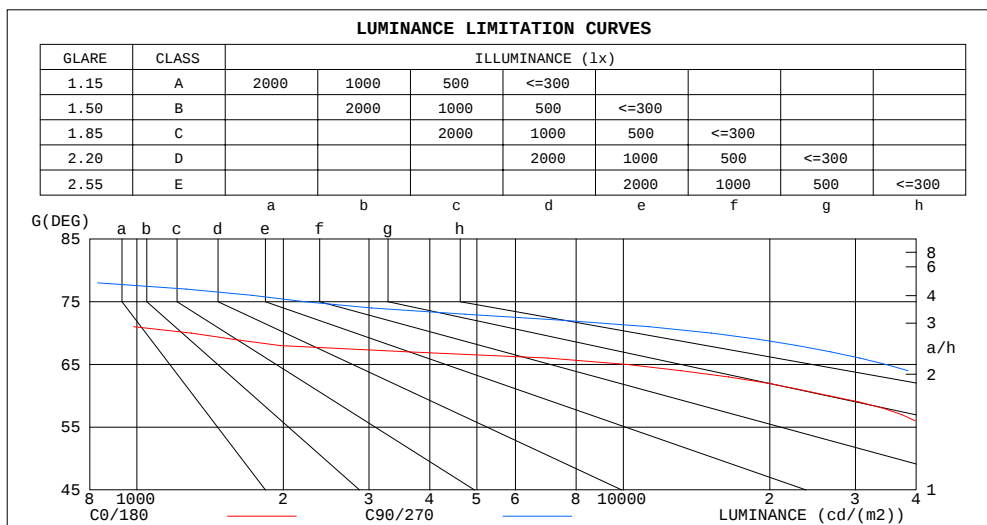
%lamp = 93.3%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	145	427
80	242	429
75	280	2215
70	1294	15183
65	10176	34647
60	26490	46458
55	41147	49123
50	44259	51276
45	46701	52594

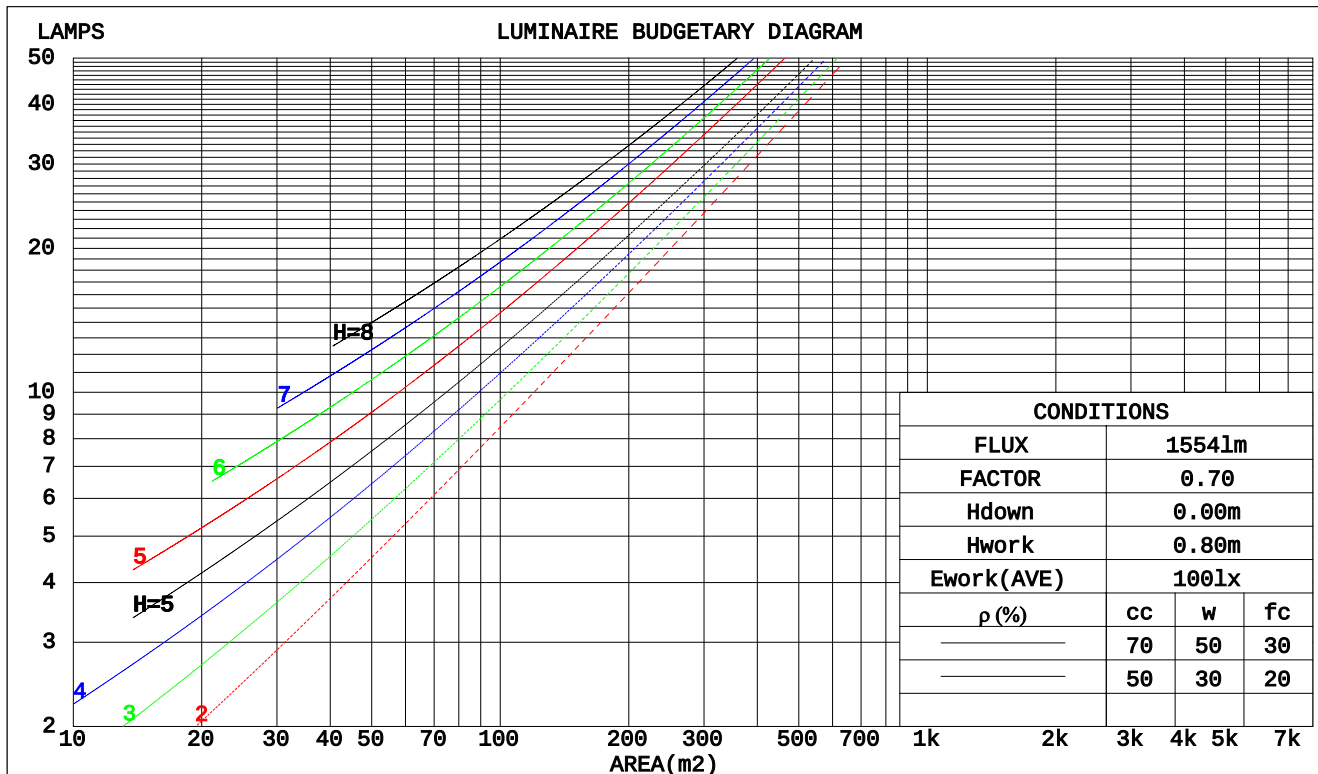
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 23 January 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.6%
Test Distance: 2.50m [K=1.0459]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-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			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	.94	.92	.90	.89
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.84	.81	.84	.81	.79	.77
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.74	.70	.76	.72	.68	.66
4.0	.76	.69	.63	.75	.68	.62	.73	.66	.61	.70	.65	.61	.68	.64	.60	.58
5.0	.69	.60	.54	.67	.60	.54	.65	.59	.54	.64	.58	.53	.62	.57	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.58	.51	.47	.56	.51	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.53	.46	.42	.51	.46	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.29



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm								
NAME: ASD Lighting Corp				TYPE: LED			WEIGHT:	
SPEC.: ASD-UHB22-150D50-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 Coeffcients(WEC)											
0.0																		
1.0	.243	.138	.044	.236	.135	.043	.223	.128	.041	.211	.122	.039	.200	.116	.037			
2.0	.241	.132	.040	.235	.129	.040	.224	.124	.039	.213	.120	.037	.203	.115	.036			
3.0	.231	.123	.037	.226	.121	.036	.216	.117	.036	.207	.113	.035	.199	.110	.034			
4.0	.220	.114	.034	.215	.113	.033	.206	.109	.033	.198	.106	.032	.191	.104	.032			
5.0	.208	.106	.031	.204	.105	.030	.196	.102	.030	.188	.099	.030	.182	.097	.029			
6.0	.196	.098	.028	.192	.097	.028	.185	.095	.028	.179	.093	.027	.173	.091	.027			
7.0	.185	.091	.026	.182	.090	.026	.175	.089	.026	.169	.087	.025	.164	.085	.025			
8.0	.174	.085	.024	.172	.084	.024	.166	.083	.024	.161	.081	.023	.156	.080	.023			
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.152	.076	.022	.148	.075	.022			
10.0	.156	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020			

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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.191	.191	.191	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020		
1.0	.176	.157	.140	.151	.135	.121	.103	.093	.084	.059	.054	.049	.019	.017	.016		
2.0	.166	.133	.105	.142	.114	.091	.098	.079	.063	.056	.046	.037	.018	.015	.012		
3.0	.158	.115	.081	.135	.099	.070	.093	.069	.049	.054	.040	.029	.017	.013	.009		
4.0	.150	.101	.063	.129	.087	.055	.089	.061	.039	.051	.036	.023	.017	.012	.008		
5.0	.144	.090	.051	.123	.078	.045	.085	.055	.032	.049	.032	.019	.016	.010	.006		
6.0	.137	.082	.042	.118	.071	.037	.081	.050	.026	.047	.029	.016	.015	.010	.005		
7.0	.131	.075	.036	.113	.065	.031	.078	.046	.022	.045	.027	.013	.015	.009	.004		
8.0	.125	.069	.031	.108	.060	.027	.075	.042	.019	.043	.025	.011	.014	.008	.004		
9.0	.120	.064	.027	.103	.056	.024	.071	.039	.017	.042	.023	.010	.013	.008	.003		
10.0	.114	.060	.024	.099	.052	.021	.068	.037	.015	.040	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm											
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:			
SPEC.: ASD-UHB22-150D50-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	2H	25.4	26.9	25.8	27.2	27.5	26.8	28.3	27.1	28.6	28.9
	3H	25.3	26.6	25.7	27.0	27.3	27.2	28.5	27.6	28.9	29.2
	4H	25.3	26.5	25.7	26.8	27.2	27.2	28.4	27.6	28.7	29.1
	6H	25.2	26.3	25.6	26.7	27.1	27.1	28.2	27.5	28.6	29.0
	8H	25.2	26.2	25.6	26.6	27.0	27.1	28.1	27.5	28.5	28.9
	12H	25.1	26.1	25.6	26.5	27.0	27.0	28.0	27.5	28.4	28.9
4H	2H	25.7	27.0	26.1	27.3	27.7	27.1	28.3	27.5	28.6	29.0
	3H	25.6	26.6	26.1	27.0	27.4	27.5	28.5	27.9	28.9	29.3
	4H	25.6	26.5	26.0	26.9	27.3	27.4	28.3	27.9	28.7	29.2
	6H	25.5	26.3	26.0	26.7	27.2	27.4	28.1	27.8	28.6	29.0
	8H	25.5	26.2	25.9	26.6	27.1	27.3	28.0	27.8	28.5	28.9
	12H	25.4	26.0	25.9	26.5	27.0	27.3	27.9	27.8	28.4	28.9
8H	4H	25.5	26.2	25.9	26.6	27.1	27.3	28.0	27.8	28.5	28.9
	6H	25.4	26.0	25.9	26.5	26.9	27.2	27.8	27.7	28.3	28.8
	8H	25.3	25.8	25.8	26.4	26.8	27.2	27.7	27.7	28.2	28.7
	12H	25.3	25.7	25.8	26.2	26.8	27.1	27.6	27.6	28.1	28.7
12H	4H	25.4	26.1	25.9	26.5	27.0	27.3	27.9	27.8	28.4	28.9
	6H	25.3	25.9	25.9	26.3	26.9	27.2	27.7	27.7	28.2	28.7
	8H	25.3	25.7	25.8	26.2	26.8	27.1	27.6	27.6	28.1	28.7
CIE190: 2010											

CIE190: 2010
Area: 0.19625 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 23 January 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.6%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

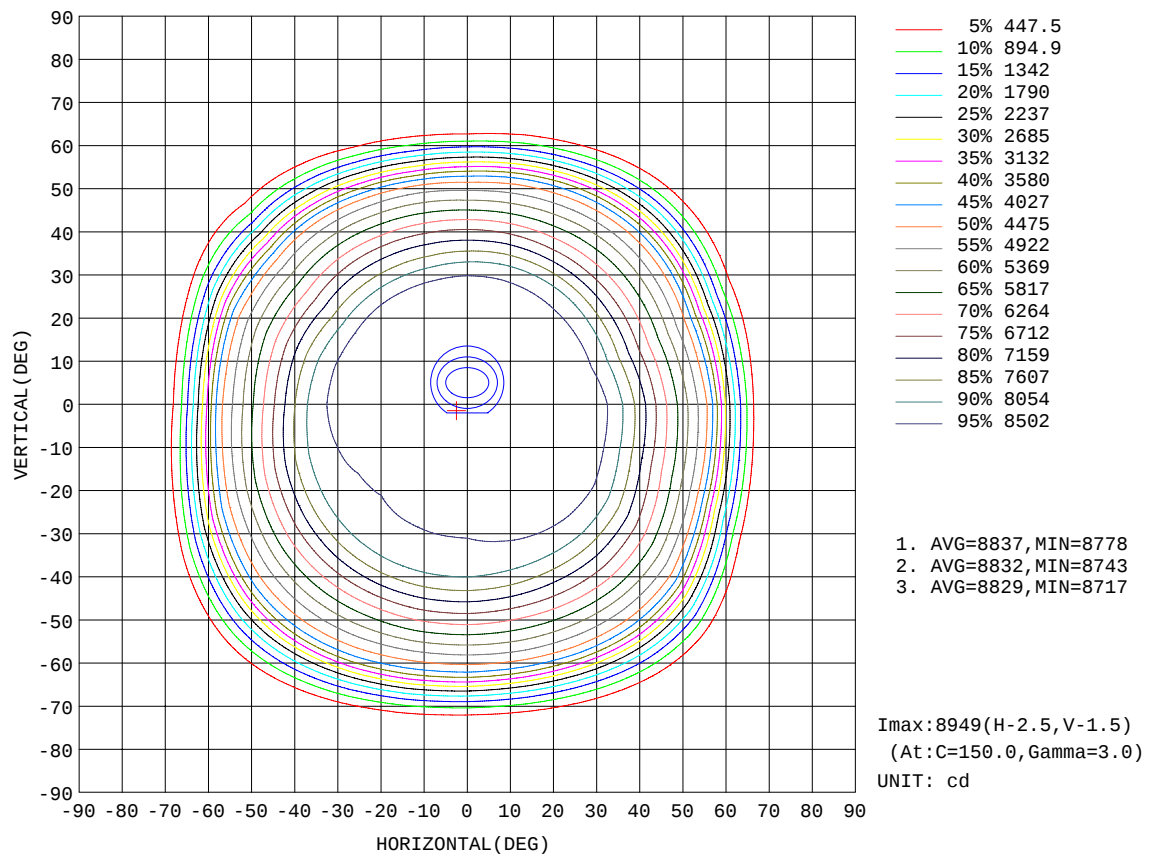
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	44	61	51	44	60	50	44	38
0.80	73	62	56	72	62	56	70	61	55	49
1.00	82	72	66	81	72	66	79	73	65	59
1.25	89	80	74	88	80	74	86	78	73	67
1.50	94	86	80	93	85	80	90	83	79	72
2.00	100	93	88	99	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
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: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

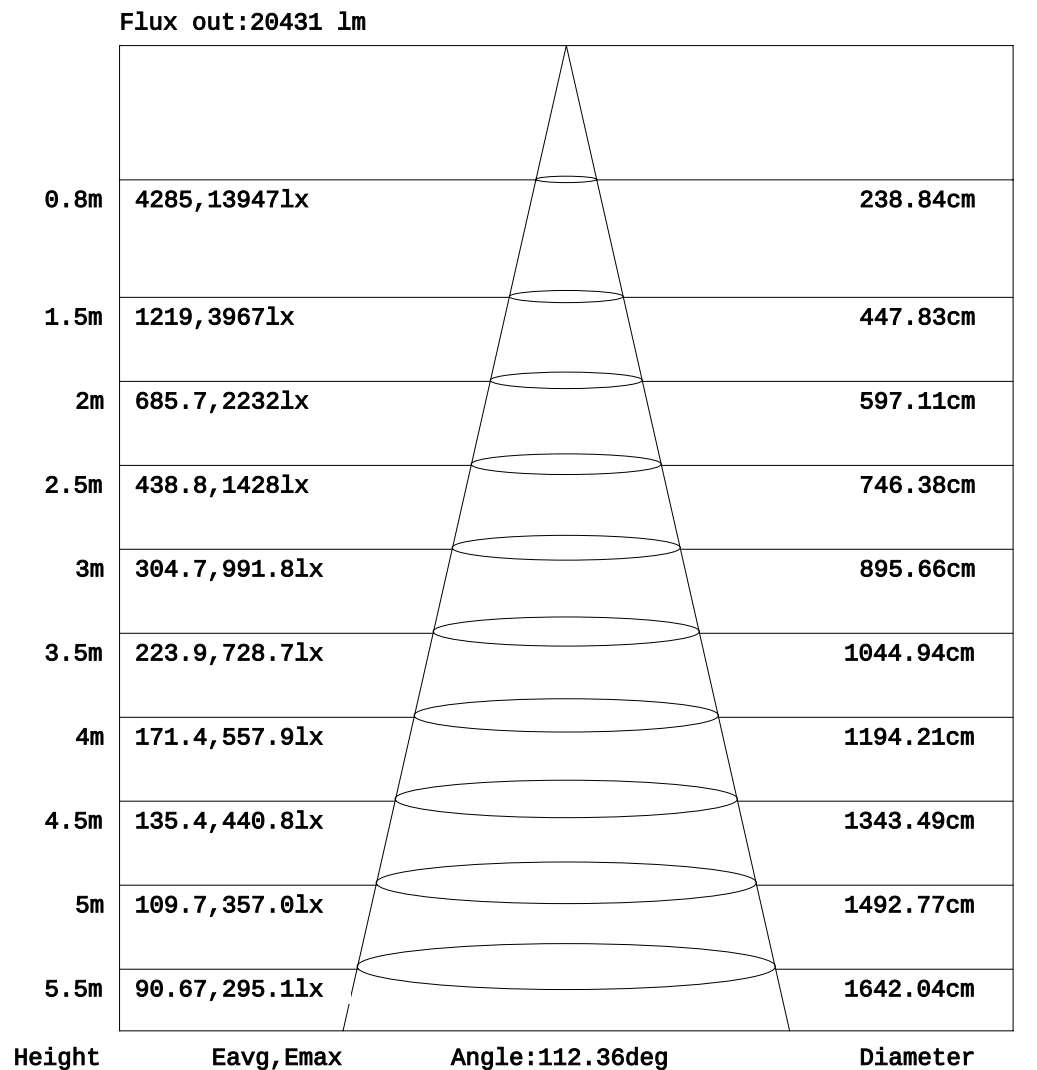


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



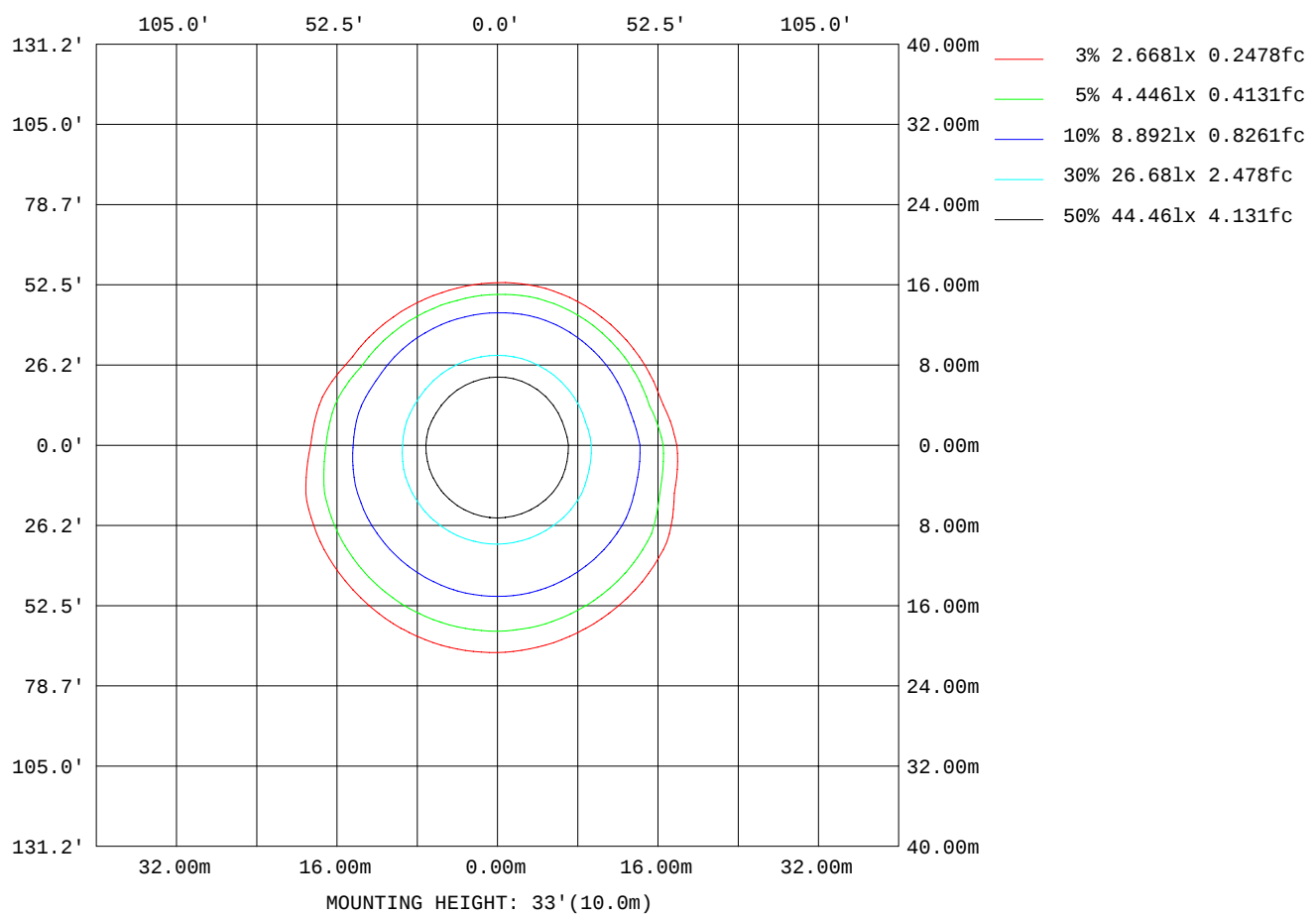
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

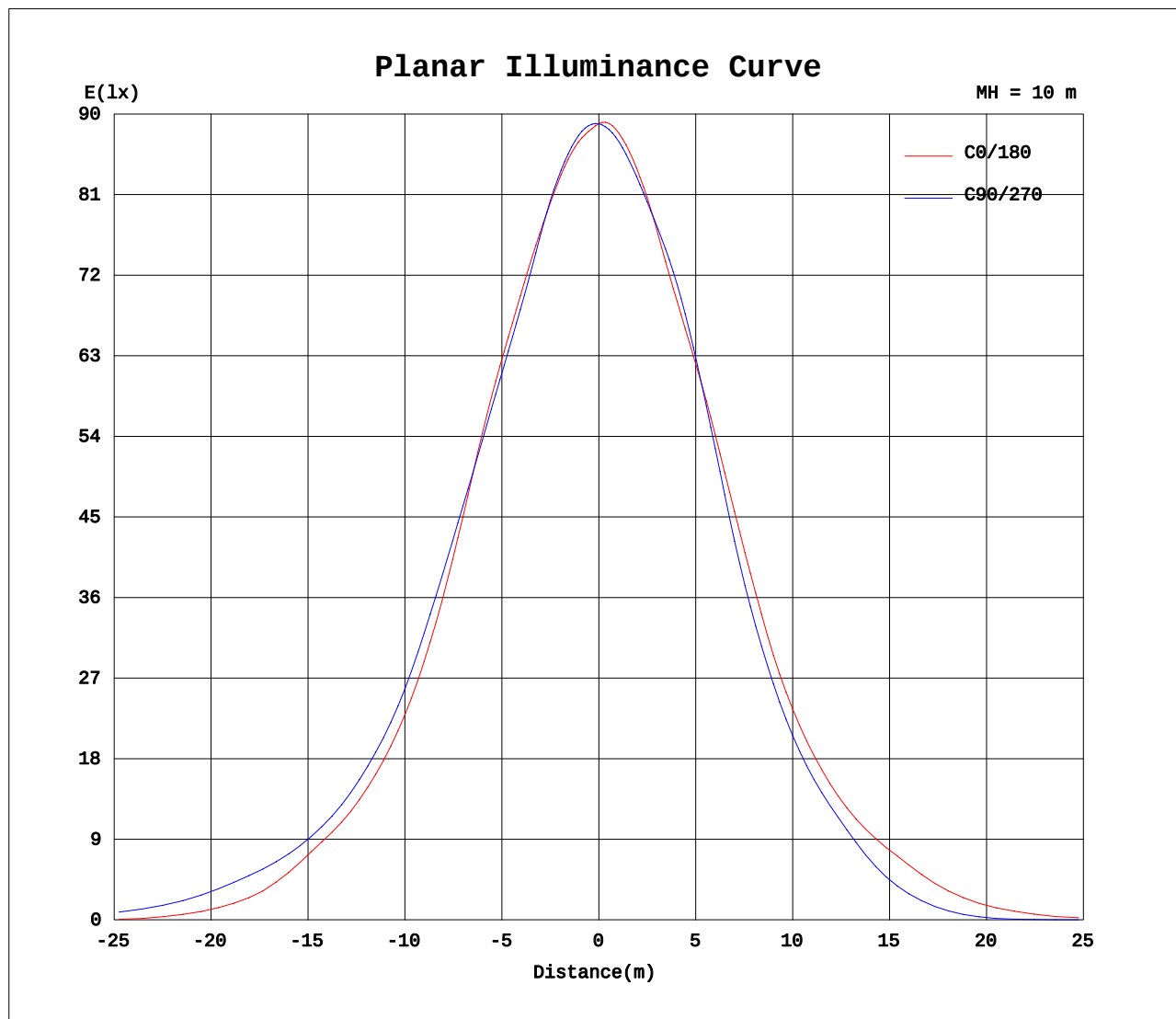
AvgL	cd/m2
L_0~180(65)av	12840
L_0~180(75)av	293
L_0~180(85)av	203
L_90~270(65)av	18030
L_90~270(75)av	1206
L_90~270(85)av	445
L_45(65)av	16104
L_45(75)av	884
L_45(85)av	367

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.6%
Test Distance: 2.500m [K=1.0459]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	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	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892	8892
5	8836	8881	8928	8949	8944	8927	8908	8893	8883	8888	8916	8938	8933	8910	8893	8880	8867	8854	8843
10	8807	8864	8891	8897	8890	8878	8866	8853	8840	8828	8832	8864	8891	8867	8848	8837	8824	8806	8785
15	8765	8808	8824	8822	8809	8792	8773	8759	8752	8745	8743	8767	8812	8813	8820	8836	8838	8819	8790
20	8755	8751	8728	8696	8656	8621	8597	8606	8609	8602	8600	8623	8682	8721	8782	8844	8891	8907	8884
25	8747	8748	8696	8637	8595	8555	8535	8539	8525	8512	8518	8569	8673	8704	8764	8818	8848	8864	8852
30	8681	8713	8716	8657	8601	8550	8517	8516	8507	8491	8498	8546	8644	8619	8551	8524	8479	8455	8478
35	8197	8279	8454	8461	8432	8413	8416	8407	8391	8378	8352	8335	8295	8159	7884	7789	7712	7662	7698
40	7397	7541	7858	7947	7962	8004	8061	8066	8042	7997	7930	7839	7597	7388	7050	6970	6883	6823	6807
45	6481	6619	7025	7140	7174	7242	7298	7312	7276	7210	7113	6976	6659	6492	6147	6043	5922	5862	5821
50	5583	5758	6155	6305	6355	6404	6468	6460	6374	6311	6242	6097	5743	5601	5186	5068	4957	4909	4828
55	4632	4787	5201	5316	5410	5496	5530	5527	5451	5375	5287	5134	4821	4608	3874	3571	3271	3126	3164
60	2599	2959	3962	4225	4396	4517	4559	4542	4506	4423	4304	4061	3279	2838	1832	1541	1307	1191	1222
65	844	1091	1914	2224	2464	2697	2874	2923	2811	2619	2442	2146	1286	977	392	267	176	149	117
70	86.8	122	413	599	764	916	1019	1049	994	864	746	565	133	116	49.7	32.5	26.5	23.3	19.9
75	14.2	17.0	50.7	68.3	88.2	103	113	115	106	89.8	73.6	55.9	15.6	16.6	12.1	11.5	11.0	10.5	9.99
80	8.25	9.04	11.8	12.7	13.7	14.6	14.6	15.5	14.8	13.8	12.8	11.8	9.43	9.00	6.91	6.51	6.05	5.44	4.48
85	2.49	3.54	6.13	6.80	7.18	7.37	7.30	7.29	7.21	6.87	6.50	6.20	4.47	5.14	8.66	10.6	11.1	11.0	7.93
90	2.73	2.39	1.78	2.14	2.33	2.41	2.29	2.09	1.90	1.74	1.64	1.95	8.97	13.5	11.4	9.56	8.09	5.67	3.15
95	0.34	0.95	5.07	5.19	3.24	2.26	1.06	0.46	0.44	0.89	2.16	3.98	0.61	1.29	1.14	1.01	1.07	1.19	1.16
100	0.57	0.60	0.74	0.40	0.36	0.39	0.32	0.34	0.34	0.39	0.84	0.51	1.13	1.24	1.50	1.60	1.75	3.37	2.73
105	0.84	0.78	0.63	0.59	0.56	0.56	0.54	0.55	0.56	0.58	0.60	0.65	1.73	1.79	2.03	2.13	2.42	2.65	2.59
110	1.13	1.08	0.93	0.89	0.88	0.89	0.85	0.86	0.86	0.88	0.90	0.97	2.18	2.23	2.41	2.51	2.67	2.75	2.74
115	1.45	1.39	1.25	1.24	1.24	1.23	1.22	1.23	1.24	1.25	1.26	1.29	2.55	2.59	2.78	2.91	3.02	3.10	3.17
120	1.94	1.83	1.62	1.62	1.62	1.65	1.67	1.68	1.69	1.70	1.69	1.72	2.94	3.08	3.45	3.64	3.79	3.86	3.92
125	2.55	2.34	2.09	2.11	2.15	2.14	2.18	2.21	2.24	2.25	2.22	2.28	3.81	3.94	4.35	4.62	4.82	4.96	5.02
130	3.29	3.03	2.65	2.70	2.74	2.73	2.79	2.80	2.87	2.85	2.80	2.89	4.80	4.95	5.42	5.66	5.88	6.08	6.09
135	4.02	3.82	3.35	3.35	3.48	3.39	3.46	3.48	3.56	3.47	3.52	3.60	5.75	5.90	6.27	6.53	6.67	6.86	6.78
140	4.70	4.52	4.06	3.96	4.09	4.01	4.13	4.15	4.15	4.09	4.17	4.34	6.31	6.51	6.87	7.21	7.30	7.44	7.33
145	5.20	5.10	4.69	4.62	4.58	4.51	4.54	4.60	4.64	4.65	4.59	4.89	6.92	7.14	7.41	7.65	7.80	7.90	7.74
150	5.66	5.56	5.16	5.01	5.14	5.19	5.14	5.20	5.19	5.11	5.03	5.27	7.48	7.65	7.86	8.03	8.10	8.13	7.82
155	6.16	6.05	5.69	5.39	5.40	5.47	5.50	5.57	5.56	5.55	5.56	5.76	7.96	8.01	8.33	8.46	8.40	8.35	7.98
160	6.66	6.53	6.19	5.72	5.71	5.70	5.69	5.87	5.94	6.03	6.20	6.35	8.62	8.59	8.74	8.99	9.00	8.85	8.42
165	6.97	6.88	6.60	6.28	6.10	6.04	5.92	6.27	6.46	6.69	6.79	6.90	8.94	8.99	9.13	9.24	9.29	9.12	8.71
170	7.39	7.26	7.04	6.81	6.67	6.57	6.49	6.80	7.03	7.15	7.15	7.29	9.10	9.03	9.05	9.13	9.14	8.98	8.68
175	7.90	7.61	7.35	7.14	7.01	6.97	6.96	7.08	7.19	7.28	7.33	7.49	9.11	9.08	9.07	9.08	9.04	8.87	8.61
180	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.79	7.79	7.79	7.79	7.79	7.79	7.79

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:1.2500A P:150W PF:0.9993 Freq:60.01Hz Lamp Flux:22200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-150D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	8892	8892	8892	8892	8892													
5	8833	8824	8818	8814	8815													
10	8766	8749	8737	8733	8742													
15	8748	8708	8682	8673	8682													
20	8809	8749	8693	8666	8676													
25	8763	8704	8654	8651	8668													
30	8486	8475	8463	8472	8496													
35	7751	7759	7778	7807	7875													
40	6806	6773	6803	6877	6973													
45	5832	5844	5891	5960	6049													
50	4882	4901	4963	5027	5112													
55	3347	3445	3529	3676	3848													
60	1325	1378	1464	1608	1786													
65	182	201	232	293	378													
70	20.2	20.8	23.6	28.9	37.6													
75	9.84	9.77	10.1	10.8	11.5													
80	4.06	3.82	4.05	4.53	5.41													
85	4.51	2.02	0.83	0.69	1.01													
90	2.38	1.23	0.92	0.79	1.25													
95	1.21	1.19	1.14	1.08	0.99													
100	2.24	1.93	1.79	1.69	1.54													
105	2.50	2.39	2.30	2.21	2.05													
110	2.75	2.72	2.67	2.59	2.39													
115	3.18	3.15	3.07	2.96	2.73													
120	3.91	3.85	3.71	3.56	3.31													
125	4.96	4.79	4.57	4.38	4.12													
130	6.00	5.78	5.43	5.28	5.04													
135	6.59	6.30	6.18	6.14	5.87													
140	7.06	6.90	6.82	6.73	6.39													
145	7.52	7.40	7.25	7.19	6.90													
150	7.63	7.58	7.60	7.65	7.27													
155	7.86	7.87	7.90	8.10	7.62													
160	8.13	8.26	8.41	8.41	7.86													
165	8.50	8.47	8.54	8.57	8.01													
170	8.48	8.44	8.43	8.41	7.94													
175	8.46	8.47	8.56	8.51	8.24													
180	7.79	7.79	7.79	7.79	7.79													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks: