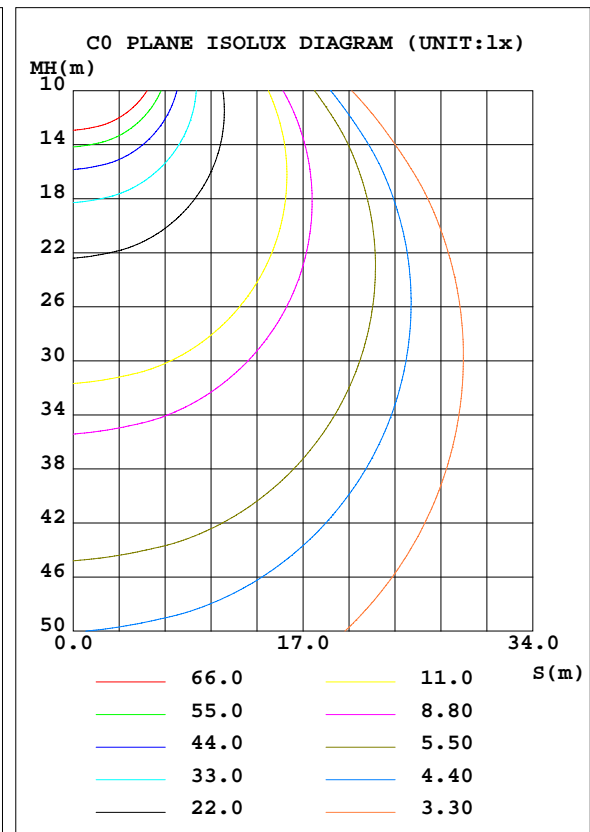
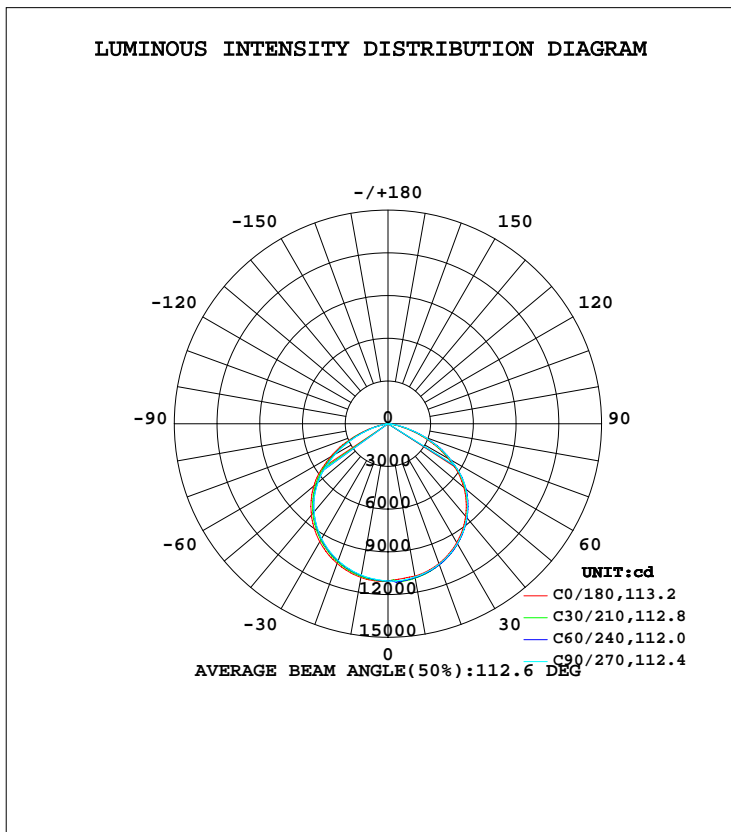


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.69 lm/W			
MODEL	ASD-UHB2-200D50-PRM	I _{max} (cd)	11155	S/MH(C0/180)	1.29
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	30404	η UP, DN(C0-180)	0.0,51.6
NOMINAL FLUX(lm)	29600	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,48.3
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



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 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	1086	1099	1093	1083	1096	1085	1079	1079	0- 10	1046	1046	3.44,3.44
20	1045	1055	1049	1037	1044	1029	1022	1025	10- 20	3012	4059	13.3,13.3
30	965.1	975.6	972.3	957.6	957.9	938.9	931.6	937.7	20- 30	4608	8667	28.5,28.5
40	848.5	862.4	860.7	843.2	836.9	814.9	807.6	817.2	30- 40	5621	14288	47,47
50	694.9	712.4	712.7	693.2	680.3	652.6	641.8	659.9	40- 50	5876	20164	66.3,66.3
60	487.0	505.0	507.8	481.5	466.9	438.3	427.0	451.2	50- 60	5181	25345	83.4,83.4
70	252.1	272.8	275.6	250.2	230.5	206.6	198.4	222.2	60- 70	3511	28857	94.9,94.9
80	48.54	62.06	63.38	48.96	39.12	29.06	26.40	34.88	70- 80	1390	30247	99.5,99.5
90	0.5503	1.304	0.6960	0.7563	0.1718	0.1799	0.1789	0.1668	80- 90	128.1	30375	99.9,99.9
100	0.1341	0.1292	0.1287	0.1357	0.3003	0.3080	0.3092	0.2933	90-100	2.281	30377	99.9,99.9
110	0.2042	0.1908	0.1973	0.2083	0.3774	0.3848	0.3869	0.3707	100-110	2.701	30380	99.9,99.9
120	0.3245	0.2927	0.2955	0.3160	0.4763	0.4812	0.4861	0.4537	110-120	3.302	30383	99.9,99.9
130	0.4705	0.4301	0.4253	0.4525	0.6560	0.6908	0.7094	0.6324	120-130	4.187	30387	99.9,99.9
140	0.5944	0.5679	0.5780	0.5786	0.8001	0.8583	0.8345	0.8051	130-140	4.912	30392	100,100
150	0.6371	0.6227	0.6210	0.6367	0.9091	0.9419	0.9132	0.9060	140-150	4.625	30397	100,100
160	0.7609	0.6935	0.6459	0.7189	1.002	1.009	0.9538	0.9525	150-160	3.720	30401	100,100
170	0.8655	0.8294	0.7963	0.8377	1.027	1.042	0.9844	0.9626	160-170	2.488	30403	100,100
180	0.9962	0.9962	0.9962	0.9962	0.9279	0.9279	0.9279	0.9279	170-180	0.8862	30404	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 17248 lm

%lum = 56.7%

%lamp = 56.7%

Conical surface Flux(120deg): 25345 lm

%lum = 83.4%

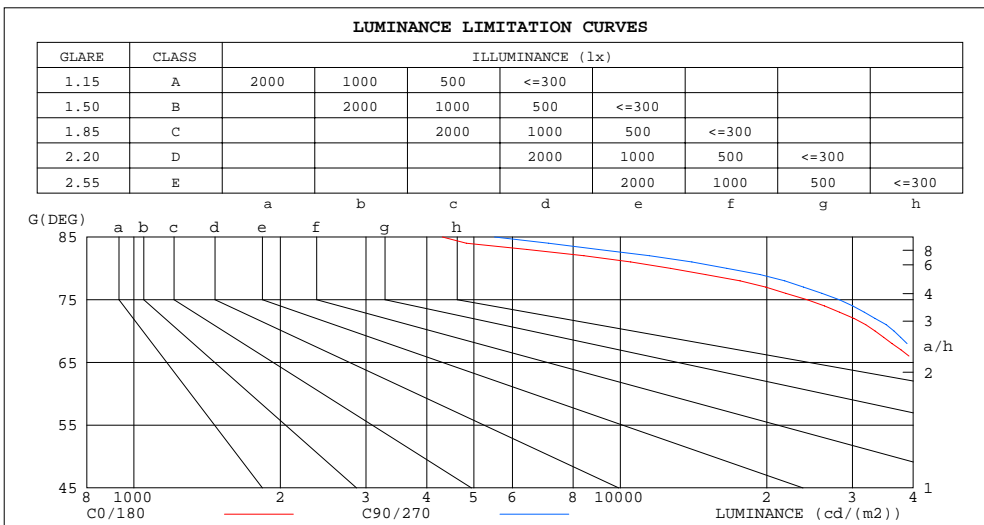
%lamp = 83.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.lx1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4307	5511
80	12677	16552
75	24215	28206
70	33422	36540
65	40302	42401
60	44168	46057
55	47535	49075
50	49028	50285
45	49821	50750

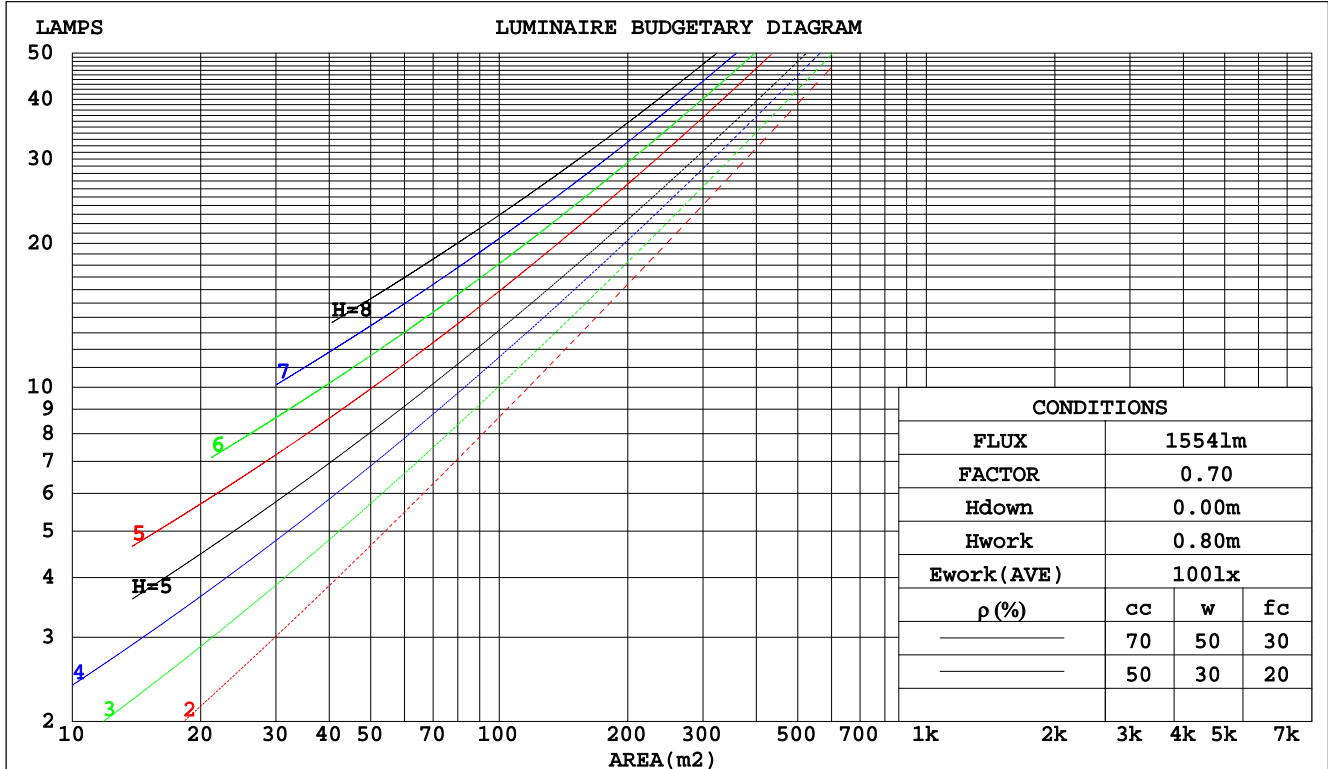
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	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	1.05	1.01	.98	1.03	.90	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.92	.86	.81	.90	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.81	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.64	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.33	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	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	.281	.160	.051	.274	.156	.050	.261	.150	.048	.249	.144	.046	.238	.138	.044	
2.0	.273	.150	.046	.267	.147	.045	.255	.142	.044	.245	.137	.043	.235	.133	.042	
3.0	.257	.137	.041	.252	.135	.041	.241	.131	.040	.232	.127	.039	.223	.123	.038	
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.218	.117	.035	.210	.114	.035	
5.0	.223	.114	.033	.219	.113	.033	.211	.110	.032	.204	.107	.032	.197	.105	.032	
6.0	.208	.104	.030	.205	.103	.030	.197	.101	.029	.191	.099	.029	.184	.097	.029	
7.0	.195	.096	.027	.191	.095	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.089	.025	.179	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.162	.077	.022	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.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	.179	.157	.137	.153	.135	.118	.105	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.170	.133	.101	.146	.114	.087	.100	.079	.061	.058	.046	.036	.019	.015	.012	
3.0	.163	.115	.077	.140	.099	.067	.096	.069	.047	.055	.040	.028	.018	.013	.009	
4.0	.155	.102	.060	.133	.088	.053	.092	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.148	.091	.049	.127	.079	.043	.088	.055	.030	.051	.032	.018	.016	.011	.006	
6.0	.141	.083	.041	.121	.072	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
7.0	.135	.076	.035	.116	.066	.030	.080	.046	.021	.046	.027	.013	.015	.009	.004	
8.0	.128	.070	.030	.111	.061	.026	.076	.043	.018	.044	.025	.011	.014	.008	.004	
9.0	.123	.065	.026	.106	.056	.023	.073	.040	.016	.043	.023	.010	.014	.008	.003	
10.0	.117	.061	.023	.101	.053	.020	.070	.037	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2-200D50-PRM					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	25.9	27.5	26.3	27.8	28.2	25.9	27.5	26.3	27.8	28.1
3H	27.3	28.7	27.7	29.1	29.4	27.4	28.8	27.8	29.2	29.5
4H	27.6	29.0	28.0	29.3	29.7	27.8	29.1	28.2	29.5	29.9
6H	27.7	29.0	28.2	29.4	29.7	28.0	29.2	28.4	29.6	30.0
8H	27.7	28.9	28.2	29.3	29.7	28.0	29.1	28.4	29.5	29.9
12H	27.7	28.8	28.1	29.2	29.7	27.9	29.1	28.4	29.5	29.9
4H 2H	26.5	27.9	26.9	28.2	28.6	26.4	27.8	26.8	28.1	28.5
3H	28.1	29.2	28.5	29.6	30.0	28.1	29.2	28.5	29.6	30.0
4H	28.5	29.5	28.9	29.9	30.3	28.5	29.5	29.0	29.9	30.4
6H	28.6	29.5	29.1	30.0	30.4	28.7	29.6	29.2	30.1	30.5
8H	28.6	29.4	29.1	29.9	30.4	28.8	29.6	29.2	30.0	30.5
12H	28.6	29.3	29.1	29.8	30.3	28.7	29.5	29.2	29.9	30.4
8H 4H	28.6	29.5	29.1	29.9	30.4	28.6	29.4	29.1	29.9	30.4
6H	28.8	29.5	29.3	30.0	30.5	28.9	29.5	29.4	30.0	30.5
8H	28.8	29.4	29.3	29.9	30.4	28.9	29.5	29.4	30.0	30.5
12H	28.8	29.3	29.3	29.8	30.4	28.9	29.4	29.4	29.9	30.5
12H 4H	28.6	29.4	29.1	29.8	30.3	28.6	29.3	29.1	29.8	30.3
6H	28.8	29.4	29.4	29.9	30.4	28.9	29.5	29.4	29.9	30.5
8H	28.8	29.4	29.4	29.9	30.4	28.9	29.4	29.4	29.9	30.5
CIE190: 2010										

CIE190: 2010
Area: 0.220507 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
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: 48.1%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

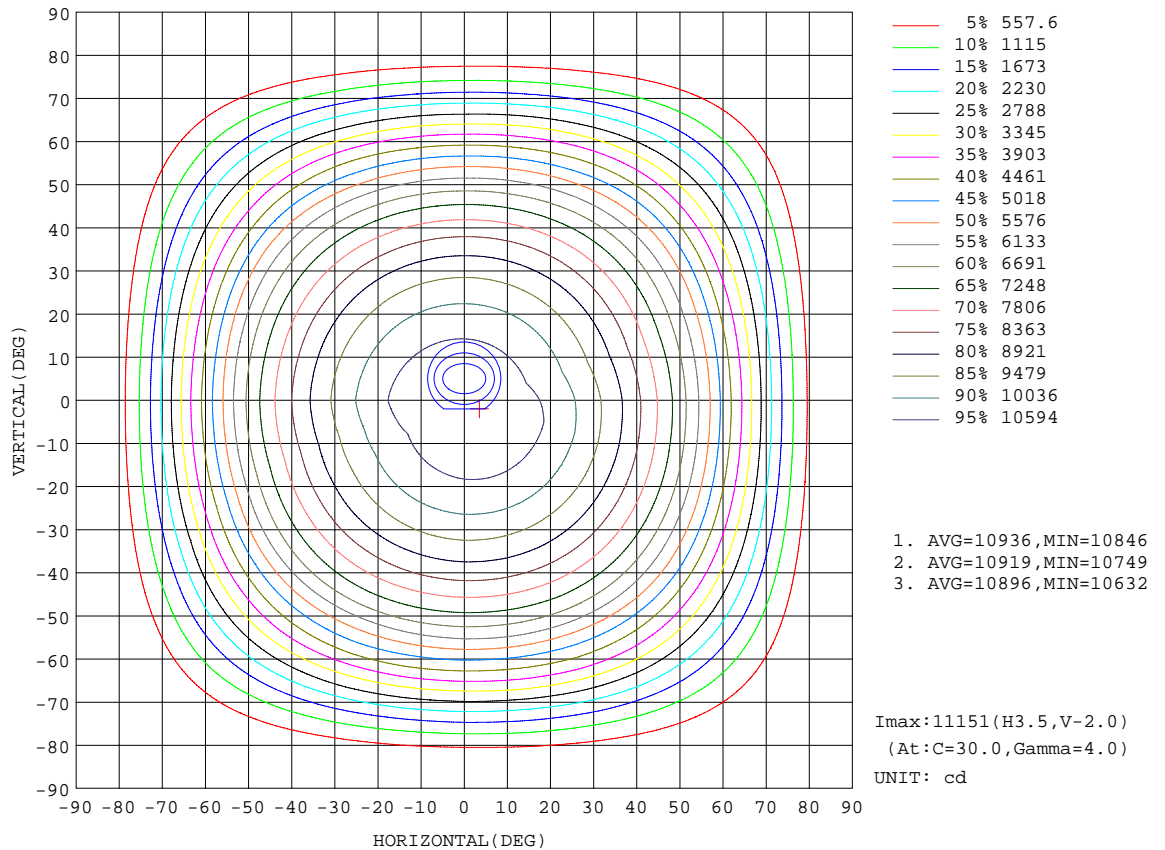
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	50	68	57	50	66	56	50	43
1.00	78	67	60	77	66	60	74	68	59	52
1.25	85	75	68	83	74	68	81	73	67	60
1.50	90	81	74	88	80	73	85	78	72	65
2.00	97	89	83	95	88	82	91	85	80	73
2.50	100	93	88	98	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
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: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

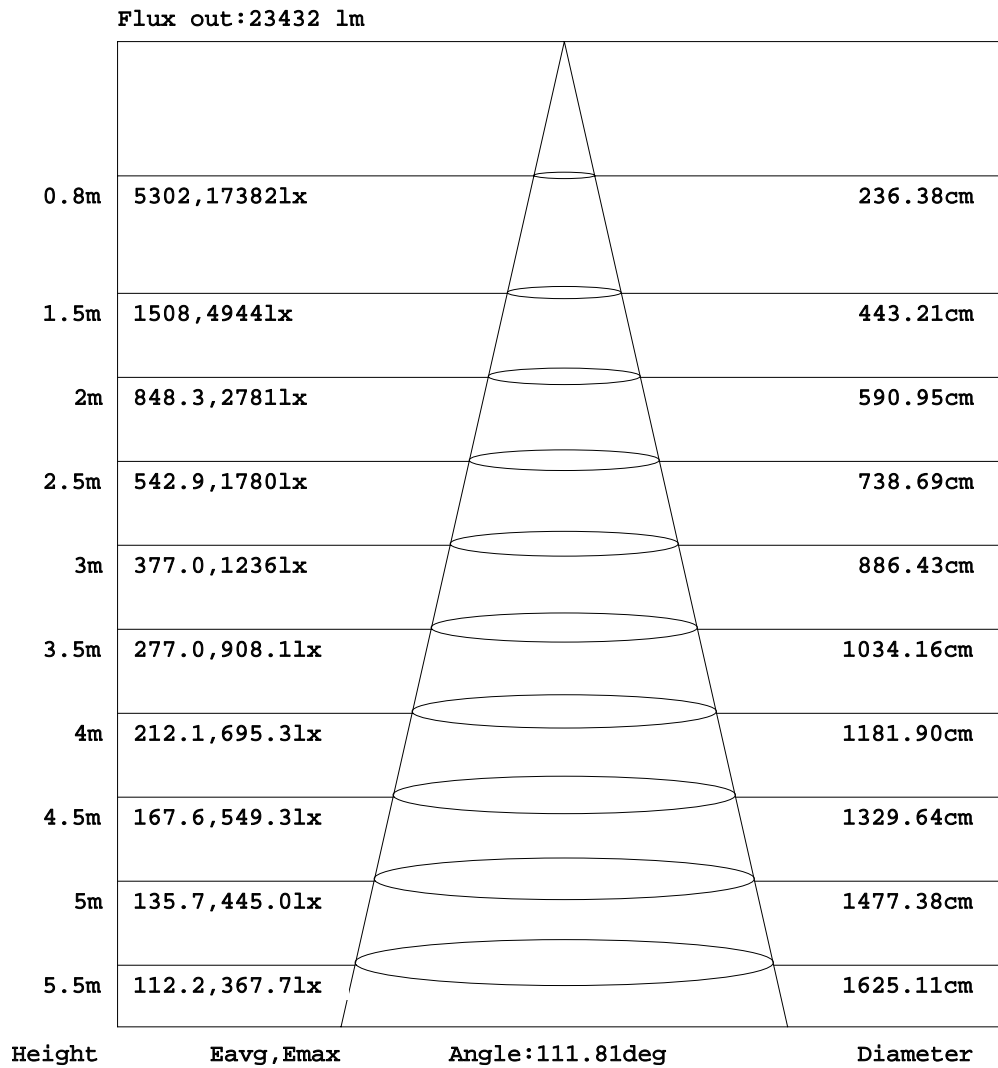


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



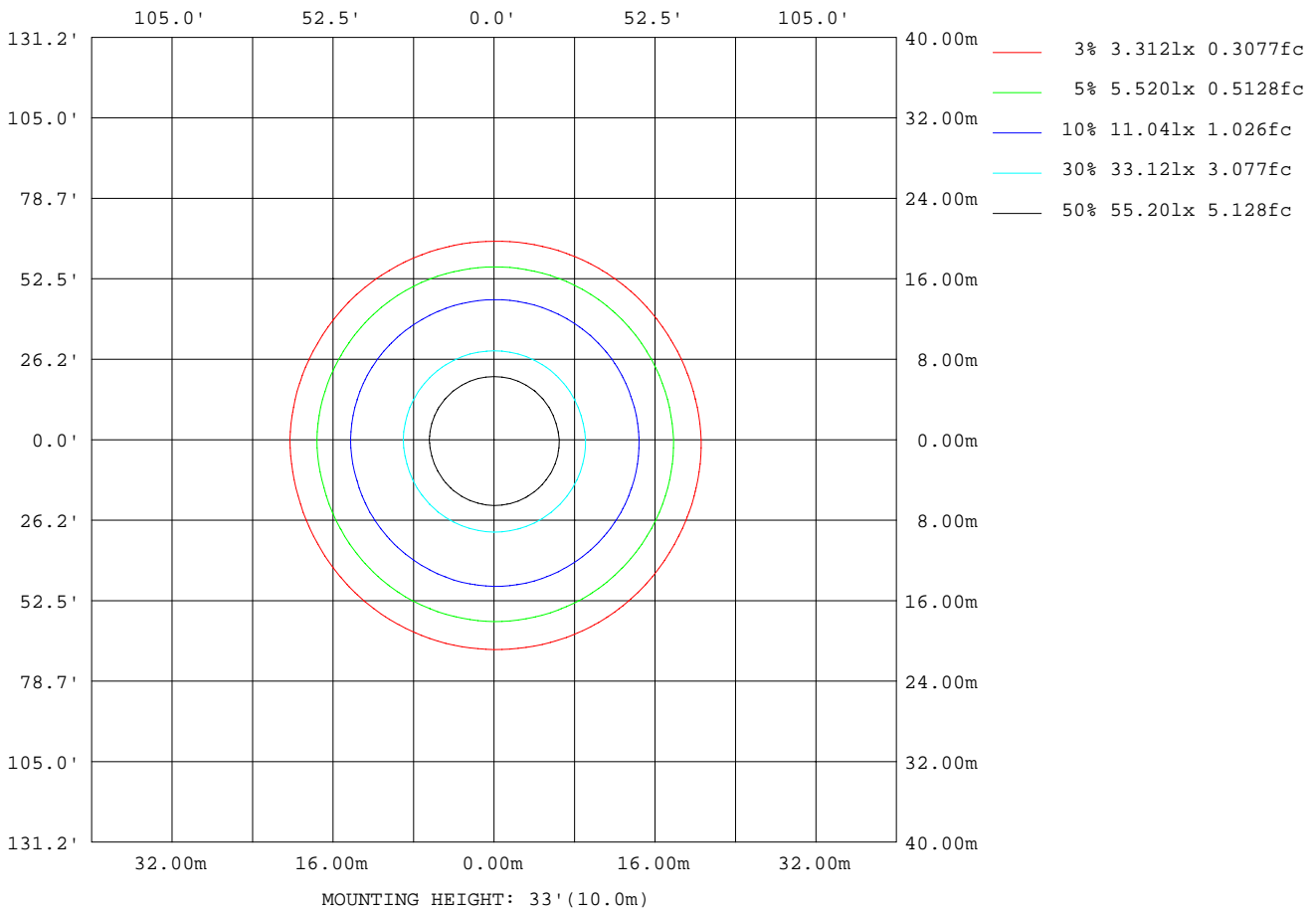
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance:2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

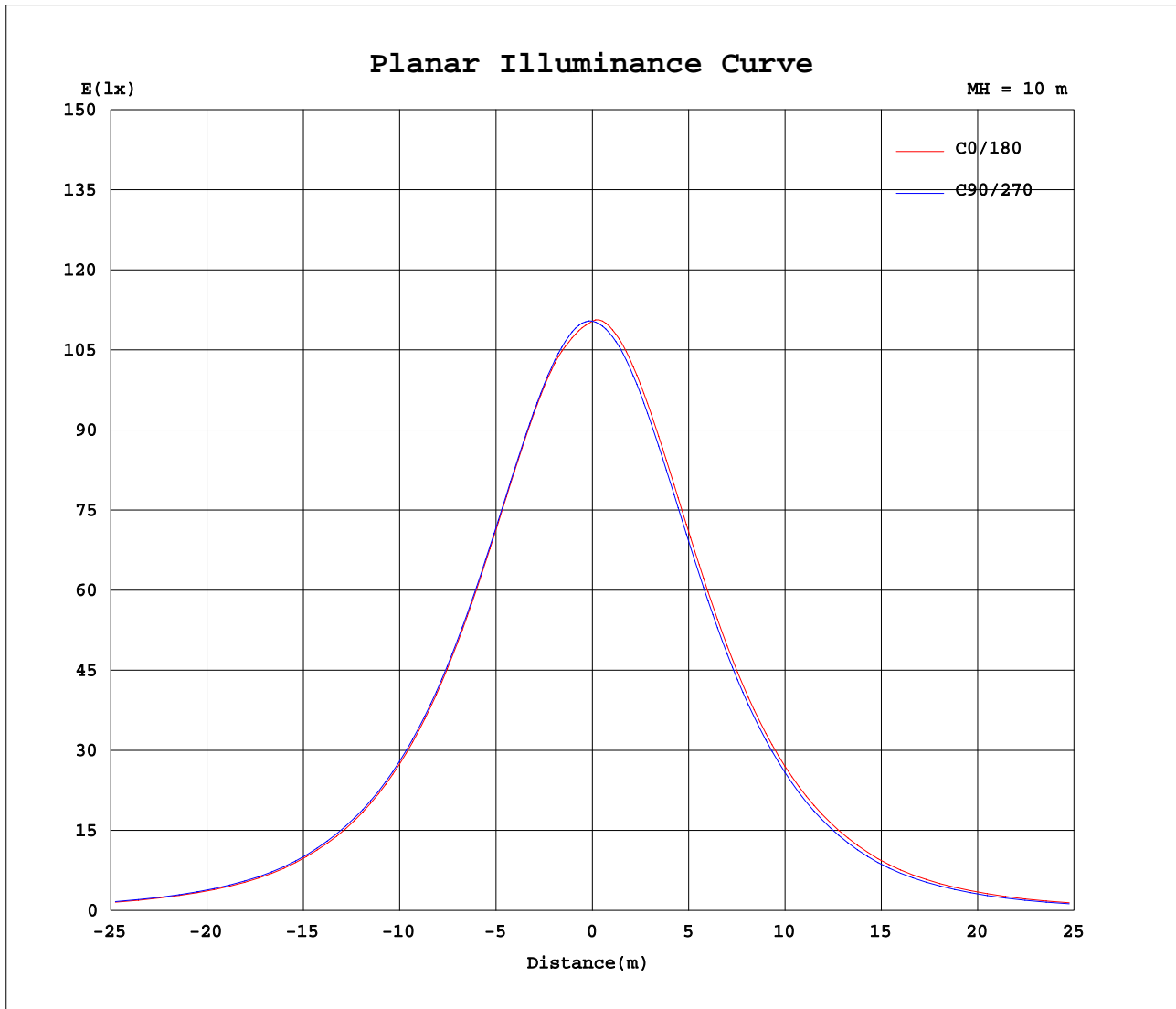
AvgL	cd/m2
L_0~180(65)av	39010
L_0~180(75)av	22464
L_0~180(85)av	3497
L_90~270(65)av	37789
L_90~270(75)av	22497
L_90~270(85)av	3555
L_45(65)av	38265
L_45(75)av	22312
L_45(85)av	3609

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
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: 48.1%
Test Distance: 2.500m [K=1.0459]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	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	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104
5	1092	1102	1113	1111	1109	1106	1103	1100	1096	1093	1104	1111	1107	1104	1102	1099	1098	1096	1095
10	1086	1102	1101	1099	1098	1095	1093	1090	1086	1083	1080	1095	1096	1092	1088	1085	1082	1080	1079
15	1071	1082	1082	1081	1080	1078	1075	1072	1068	1064	1060	1068	1075	1069	1065	1061	1058	1056	1055
20	1045	1054	1054	1055	1054	1052	1049	1046	1042	1037	1032	1035	1044	1038	1033	1029	1025	1023	1022
25	1010	1017	1019	1019	1019	1018	1015	1011	1007	1001	996	996	1005	998	993	988	984	982	981
30	965	972	974	976	976	975	972	968	963	958	951	949	958	951	944	939	935	932	932
35	911	918	921	923	924	923	921	916	911	905	898	893	902	894	887	881	877	874	874
40	849	856	860	862	864	863	861	856	850	843	835	830	837	829	821	815	810	808	808
45	777	784	789	792	794	794	791	786	780	773	764	758	764	755	747	739	734	731	731
50	695	703	708	712	716	715	713	708	701	693	684	676	680	671	662	653	646	643	642
55	601	608	615	619	623	624	621	612	600	592	584	575	580	572	563	550	540	538	538
60	487	495	501	505	509	510	508	502	495	481	470	462	467	455	445	438	433	428	427
65	376	382	386	395	401	400	395	389	379	369	358	351	351	342	331	322	313	311	309
70	252	259	265	273	278	278	276	270	262	250	240	230	230	223	214	207	200	197	198
75	138	146	153	157	161	163	161	154	146	138	130	122	118	112	107	101	94.9	94.6	95.8
80	48.5	54.3	58.4	62.1	64.3	65.9	63.4	59.9	54.0	49.0	43.8	38.4	39.1	35.3	30.5	29.1	26.8	26.1	26.4
85	8.28	8.70	10.7	11.5	12.1	11.9	10.6	11.1	10.0	8.47	6.85	5.19	5.16	3.83	3.74	3.55	3.38	2.83	3.07
90	0.55	0.56	1.20	1.30	1.28	1.08	0.70	1.10	0.94	0.76	0.56	0.32	0.17	0.17	0.18	0.18	0.18	0.18	0.18
95	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.23	0.24	0.24	0.24	0.25	0.25	0.24
100	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.30	0.30	0.30	0.31	0.31	0.31	0.31
105	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.36	0.35	0.35	0.36	0.36	0.36	0.36
110	0.20	0.20	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.38	0.38	0.38	0.38	0.39	0.39	0.39
115	0.26	0.24	0.24	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26	0.41	0.41	0.42	0.42	0.42	0.42	0.43
120	0.32	0.31	0.30	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.32	0.33	0.48	0.48	0.48	0.48	0.48	0.48	0.49
125	0.40	0.39	0.37	0.36	0.36	0.35	0.36	0.36	0.37	0.38	0.40	0.40	0.55	0.56	0.56	0.57	0.58	0.58	0.59
130	0.47	0.46	0.45	0.43	0.44	0.43	0.43	0.43	0.44	0.45	0.47	0.48	0.66	0.67	0.69	0.69	0.70	0.71	0.71
135	0.54	0.54	0.52	0.49	0.51	0.52	0.51	0.52	0.52	0.52	0.53	0.54	0.74	0.76	0.77	0.80	0.81	0.79	0.77
140	0.59	0.60	0.58	0.57	0.57	0.58	0.58	0.57	0.57	0.58	0.58	0.58	0.80	0.82	0.83	0.86	0.87	0.86	0.83
145	0.61	0.62	0.60	0.59	0.61	0.61	0.61	0.61	0.61	0.61	0.60	0.60	0.85	0.86	0.87	0.90	0.91	0.91	0.90
150	0.64	0.65	0.64	0.62	0.62	0.63	0.62	0.63	0.63	0.64	0.63	0.63	0.91	0.91	0.92	0.94	0.95	0.93	0.91
155	0.70	0.71	0.69	0.66	0.64	0.66	0.64	0.66	0.66	0.68	0.68	0.67	0.94	0.94	0.97	0.98	0.97	0.96	0.93
160	0.76	0.76	0.74	0.69	0.67	0.68	0.65	0.69	0.70	0.72	0.73	0.72	1.00	1.00	0.99	1.01	1.02	0.99	0.95
165	0.81	0.81	0.81	0.78	0.74	0.73	0.71	0.75	0.78	0.80	0.80	0.78	1.01	1.01	1.02	1.04	1.05	1.04	1.00
170	0.87	0.87	0.86	0.83	0.80	0.80	0.80	0.81	0.83	0.84	0.83	0.83	1.03	1.03	1.03	1.04	1.04	1.03	0.98
175	0.96	0.95	0.92	0.87	0.85	0.84	0.83	0.83	0.84	0.87	0.88	0.90	1.03	1.03	1.03	1.03	1.04	1.02	0.98
180	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93	0.93	0.93	0.93	0.93

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:1.6595A P:199.12W PF:0.9996 Freq:60.01Hz Lamp Flux:30404.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1104	1104	1104	1104	1104														
5	1094	1093	1093	1092	1092														
10	1079	1079	1079	1079	1080														
15	1055	1055	1056	1057	1059														
20	1022	1023	1025	1027	1030														
25	981	983	985	988	992														
30	933	935	938	941	946														
35	875	878	882	886	892														
40	810	813	817	823	829														
45	733	738	744	750	757														
50	645	652	660	669	677														
55	545	553	565	576	585														
60	433	442	451	461	473														
65	319	328	340	348	361														
70	203	213	222	233	242														
75	99.3	105	114	123	132														
80	28.5	32.0	34.9	41.2	45.7														
85	3.36	3.68	4.22	4.99	6.11														
90	0.18	0.17	0.17	0.16	0.18														
95	0.24	0.23	0.23	0.22	0.21														
100	0.30	0.30	0.29	0.29	0.28														
105	0.35	0.35	0.34	0.34	0.33														
110	0.38	0.38	0.37	0.36	0.35														
115	0.42	0.41	0.41	0.40	0.38														
120	0.48	0.47	0.45	0.45	0.44														
125	0.57	0.55	0.54	0.52	0.51														
130	0.69	0.66	0.63	0.64	0.62														
135	0.75	0.73	0.73	0.73	0.70														
140	0.80	0.82	0.81	0.80	0.77														
145	0.87	0.86	0.86	0.84	0.80														
150	0.90	0.89	0.91	0.90	0.84														
155	0.93	0.93	0.93	0.96	0.87														
160	0.94	0.94	0.95	0.98	0.90														
165	0.98	0.96	0.97	1.00	0.90														
170	0.96	0.96	0.96	0.99	0.89														
175	0.95	0.95	0.98	0.98	0.94														
180	0.93	0.93	0.93	0.93	0.93														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 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: 48.1%
 Test Distance: 2.500m [K=1.0459]
 Remarks: