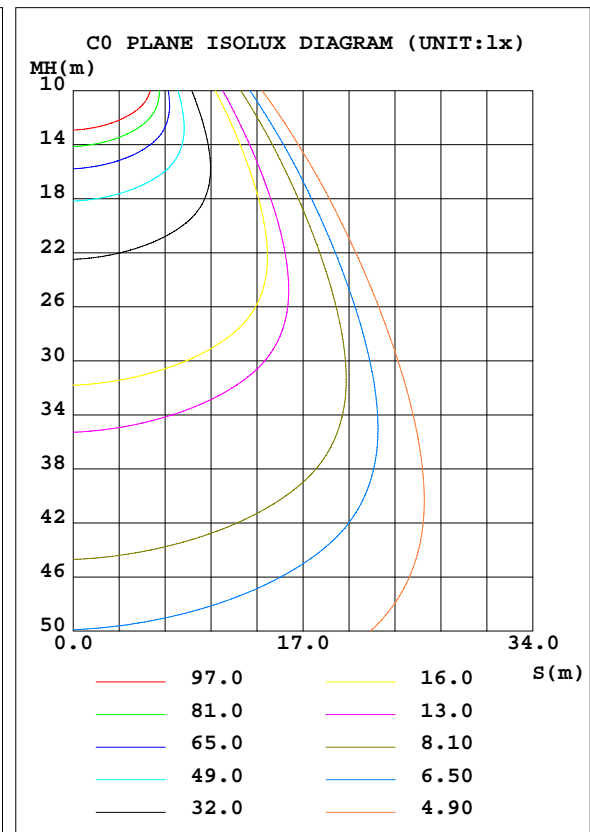
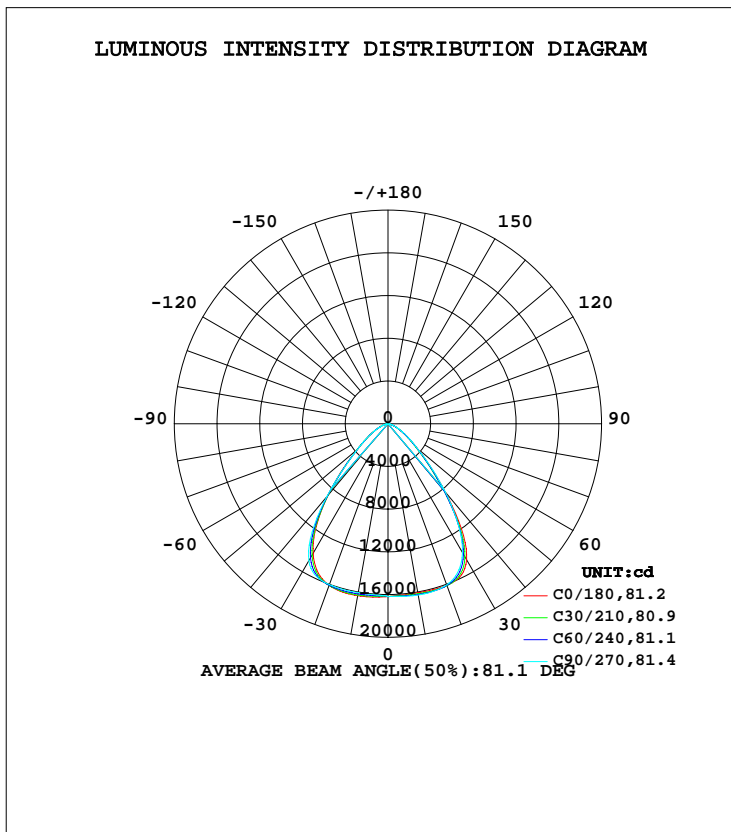


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145 lm/W			
MODEL	ASD-UHB3-200ADAC-BK	I <sub>max</sub> (cd)	16355	S/MH(C0/180)	1.18
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	29000	η UP, DN(C0-180)	0.0,49.3
NOMINAL FLUX(lm)	29000	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.6
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators:Alan Wang  
 Test Date:25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance:2.500m [K=1.0546]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1607	1620	1628	1629	1635	1623	1606	1594	0- 10	1543	1543	5.37,5.37
20	1610	1614	1606	1600	1611	1611	1603	1595	10- 20	4576	6119	21.3,21.3
30	1471	1426	1395	1385	1402	1436	1481	1497	20- 30	7137	13256	46.1,46.1
40	835.3	807.6	834.7	853.3	873.0	873.2	890.3	872.4	30- 40	7290	20546	71.5,71.5
50	359.0	345.9	357.1	360.2	372.5	378.2	375.4	356.9	40- 50	4416	24962	86.9,86.9
60	156.7	154.5	161.6	162.2	170.5	171.4	167.8	159.4	50- 60	2223	27185	94.6,94.6
70	58.76	58.74	63.34	67.35	69.91	69.10	65.35	60.99	60- 70	1065	28249	98.3,98.3
80	12.70	13.55	15.22	16.97	18.02	17.40	15.26	13.58	70- 80	377.5	28627	99.7,99.7
90	0.4165	0.4690	0.7010	0.7539	0.8745	0.7359	0.5853	0.5037	80- 90	66.24	28693	99.9,99.9
100	0.0537	0.0539	0.0536	0.0518	0.1068	0.1046	0.1072	0.1082	90-100	2.162	28695	99.9,99.9
110	0.0950	0.0947	0.0963	0.0936	0.1787	0.1734	0.1767	0.1744	100-110	1.116	28697	99.9,99.9
120	0.2075	0.2061	0.2142	0.2076	0.3479	0.3512	0.3693	0.3820	110-120	1.934	28698	99.9,99.9
130	0.4025	0.4073	0.4112	0.3995	0.7193	0.7547	0.7923	0.7646	120-130	3.792	28702	99.9,99.9
140	0.6534	0.6830	0.6747	0.6405	1.045	1.146	1.187	1.128	130-140	5.730	28708	99.9,99.9
150	0.8883	0.9403	0.9293	0.8623	1.331	1.412	1.484	1.440	140-150	6.431	28714	100,100
160	1.205	1.219	1.128	1.156	1.656	1.689	1.709	1.685	150-160	5.976	28720	100,100
170	1.410	1.429	1.372	1.359	1.811	1.849	1.793	1.742	160-170	4.314	28725	100,100
180	1.942	1.942	1.788	1.788	1.788	1.788	1.942	1.942	170-180	1.573	28726	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 23133 lm

%lum = 80.5%

%lamp = 80.5%

Conical surface Flux(120deg): 27185 lm

%lum = 94.6%

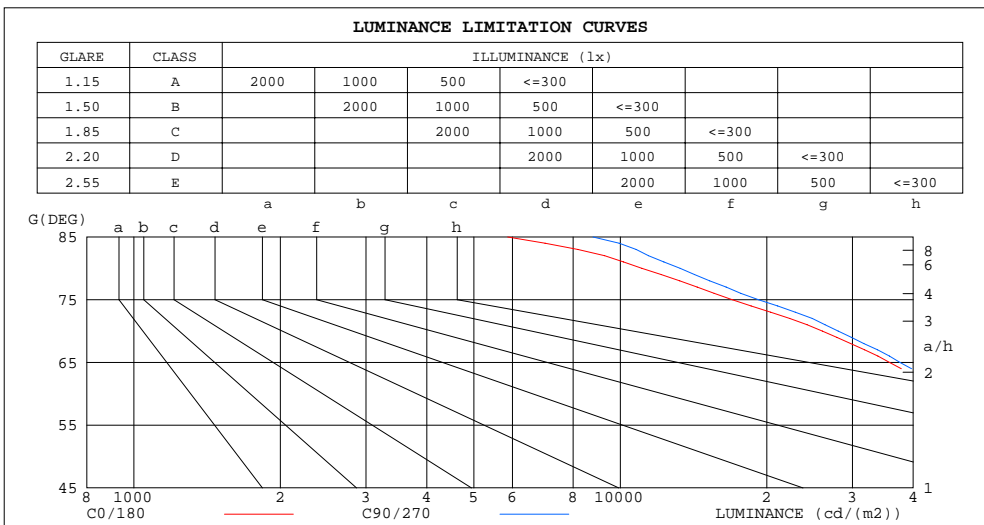
%lamp = 94.6%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5866	8786
80	11080	13275
75	16980	19231
70	26023	28051
65	35777	37564
60	47475	48950
55	62626	64028
50	84596	84146
45	117647	119284

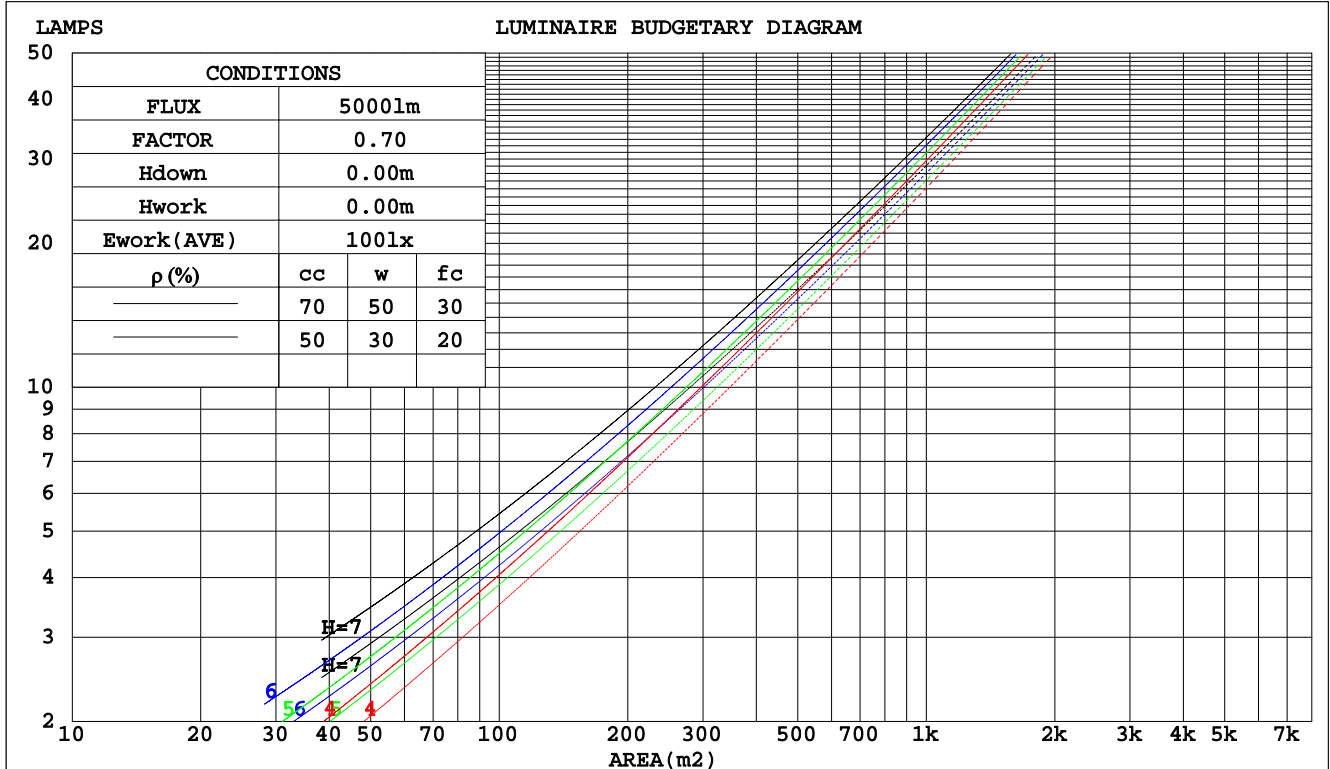
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz			Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp		TYPE: LED		WEIGHT:	
SPEC.:ASD-UHB3-200ADAC-BK		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%	
pw																0
pfc																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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.84	.82	.80
3.0	.89	.83	.78	.88	.82	.77	.85	.80	.76	.82	.78	.75	.80	.77	.74	.72
4.0	.81	.74	.69	.80	.74	.69	.78	.72	.68	.76	.71	.67	.74	.69	.66	.64
5.0	.74	.67	.62	.73	.67	.61	.71	.65	.61	.70	.64	.60	.68	.63	.60	.58
6.0	.68	.61	.56	.67	.60	.55	.66	.60	.55	.64	.59	.55	.63	.58	.54	.52
7.0	.63	.56	.50	.62	.55	.50	.61	.54	.50	.59	.54	.50	.58	.53	.49	.48
8.0	.58	.51	.46	.58	.51	.46	.56	.50	.46	.55	.49	.45	.54	.49	.45	.43
9.0	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.50	.45	.41	.40
10.0	.50	.43	.39	.50	.43	.39	.49	.43	.39	.48	.42	.38	.47	.42	.38	.37



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz			Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp		TYPE: LED		WEIGHT:	
SPEC.:ASD-UHB3-200ADAC-BK		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	.223	.127	.040	.216	.123	.039	.203	.117	.037	.191	.110	.035	.180	.105	.034	
2.0	.216	.119	.036	.211	.116	.036	.200	.111	.034	.189	.106	.033	.180	.102	.032	
3.0	.206	.110	.033	.201	.108	.032	.192	.104	.032	.183	.100	.031	.174	.097	.030	
4.0	.196	.102	.030	.191	.100	.030	.183	.097	.029	.175	.094	.028	.168	.091	.028	
5.0	.185	.094	.027	.181	.093	.027	.174	.091	.027	.167	.088	.026	.160	.086	.026	
6.0	.175	.088	.025	.172	.087	.025	.165	.085	.025	.159	.083	.024	.153	.081	.024	
7.0	.166	.082	.023	.163	.081	.023	.157	.079	.023	.152	.078	.023	.146	.076	.022	
8.0	.158	.077	.022	.155	.076	.022	.150	.075	.021	.145	.073	.021	.140	.072	.021	
9.0	.150	.073	.020	.147	.072	.020	.143	.071	.020	.138	.069	.020	.134	.068	.020	
10.0	.143	.068	.019	.140	.068	.019	.136	.067	.019	.132	.066	.019	.128	.064	.018	

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	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.175	.158	.142	.150	.135	.122	.103	.093	.085	.059	.054	.049	.019	.017	.016	
2.0	.163	.133	.108	.140	.115	.093	.096	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.153	.115	.084	.131	.099	.073	.090	.069	.051	.052	.040	.030	.017	.013	.010	
4.0	.145	.101	.067	.124	.087	.058	.085	.061	.041	.049	.036	.024	.016	.012	.008	
5.0	.137	.090	.055	.118	.078	.048	.081	.054	.034	.047	.032	.020	.015	.010	.007	
6.0	.130	.081	.046	.112	.070	.040	.077	.049	.028	.045	.029	.017	.014	.009	.006	
7.0	.124	.074	.039	.107	.064	.034	.074	.045	.024	.043	.026	.014	.014	.009	.005	
8.0	.118	.068	.033	.102	.059	.029	.070	.041	.021	.041	.024	.012	.013	.008	.004	
9.0	.113	.063	.029	.097	.055	.025	.068	.038	.018	.039	.023	.011	.013	.007	.004	
10.0	.108	.059	.026	.093	.051	.022	.065	.036	.016	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.:ASD-UHB3-200ADAC-BK					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	23.3	24.6	23.7	24.9	25.2	23.6	24.9	24.0	25.2	25.5
3H	24.0	25.1	24.3	25.4	25.8	24.4	25.5	24.7	25.8	26.2
4H	24.1	25.1	24.5	25.5	25.9	24.5	25.5	24.9	25.9	26.3
6H	24.1	25.0	24.5	25.4	25.8	24.5	25.5	24.9	25.9	26.3
8H	24.1	25.0	24.5	25.4	25.8	24.5	25.4	24.9	25.8	26.2
12H	24.0	24.9	24.5	25.3	25.7	24.5	25.3	24.9	25.7	26.2
4H 2H	23.5	24.5	23.9	24.9	25.3	23.9	24.9	24.3	25.3	25.6
3H	24.3	25.1	24.7	25.5	25.9	24.7	25.6	25.1	26.0	26.4
4H	24.4	25.2	24.9	25.6	26.1	24.9	25.7	25.3	26.1	26.5
6H	24.5	25.1	24.9	25.6	26.0	25.0	25.6	25.4	26.1	26.6
8H	24.4	25.1	24.9	25.5	26.0	25.0	25.6	25.4	26.0	26.5
12H	24.4	25.0	24.9	25.4	25.9	25.0	25.5	25.4	26.0	26.5
8H 4H	24.4	25.0	24.9	25.5	25.9	24.9	25.5	25.4	26.0	26.5
6H	24.5	25.0	25.0	25.5	26.0	25.0	25.5	25.5	26.0	26.5
8H	24.5	24.9	25.0	25.4	25.9	25.0	25.5	25.6	26.0	26.5
12H	24.4	24.8	25.0	25.3	25.9	25.0	25.4	25.5	25.9	26.5
12H 4H	24.4	24.9	24.9	25.4	25.9	24.9	25.4	25.4	25.9	26.4
6H	24.4	24.9	25.0	25.3	25.9	25.0	25.4	25.5	25.9	26.5
8H	24.4	24.8	25.0	25.3	25.9	25.0	25.4	25.5	25.9	26.5
CIE190: 2010										

CIE190: 2010  
Area: 0.0660185 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 25 January 2022

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 47.6%  
Test Distance: 2.500m [K=1.0546]  
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz			Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp		TYPE: LED		WEIGHT:	
SPEC.:ASD-UHB3-200ADAC-BK		DIM.:		SERIAL No.:	
MFR.: ASD Lighting Corp		SUR.:		Shielding Angle:	

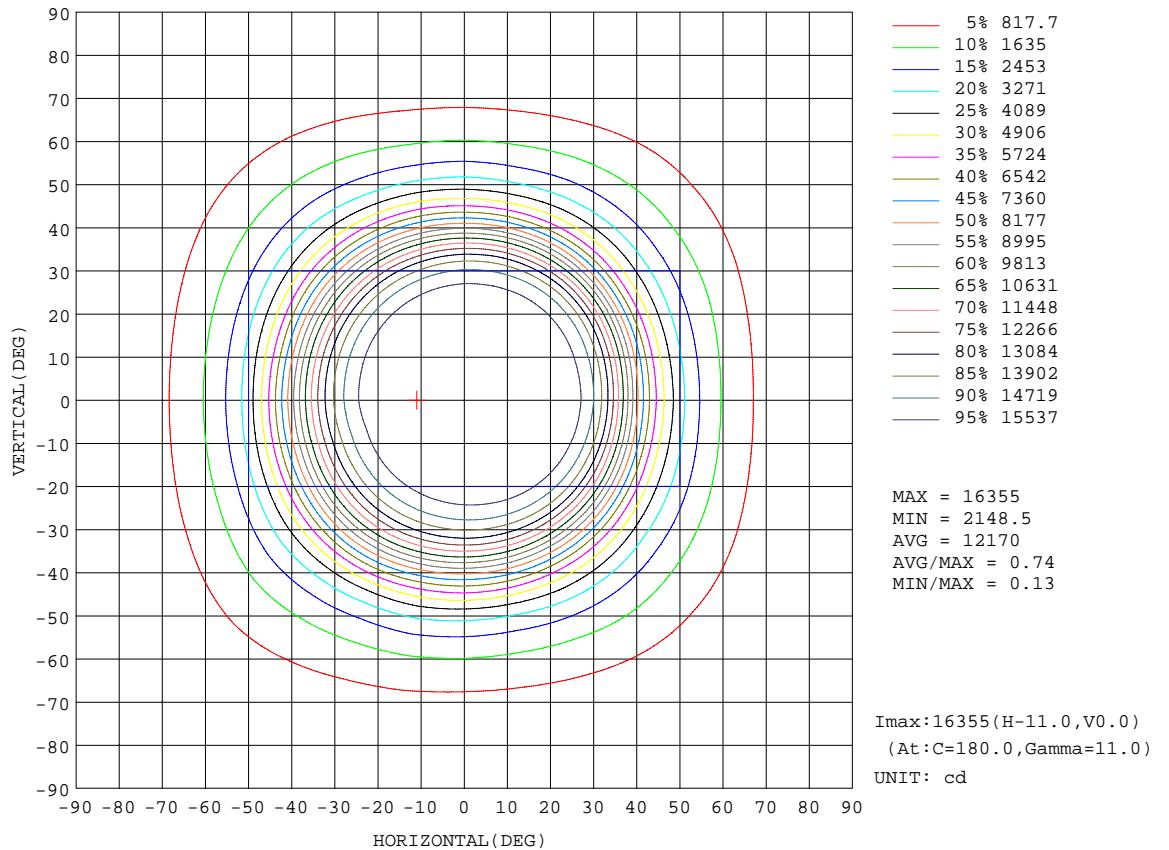
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	74	65	59	73	65	59	72	64	59	54
0.80	83	74	69	82	74	69	80	73	69	63
1.00	90	82	77	89	81	76	87	82	76	71
1.25	95	88	83	94	87	83	92	86	82	77
1.50	99	92	88	98	92	87	95	90	86	80
2.00	104	98	94	102	97	93	99	95	91	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	103	100	97	90
4.00	111	107	104	109	106	103	105	102	100	92
5.00	113	109	107	110	108	105	106	104	102	94
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: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	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: 25 January 2022

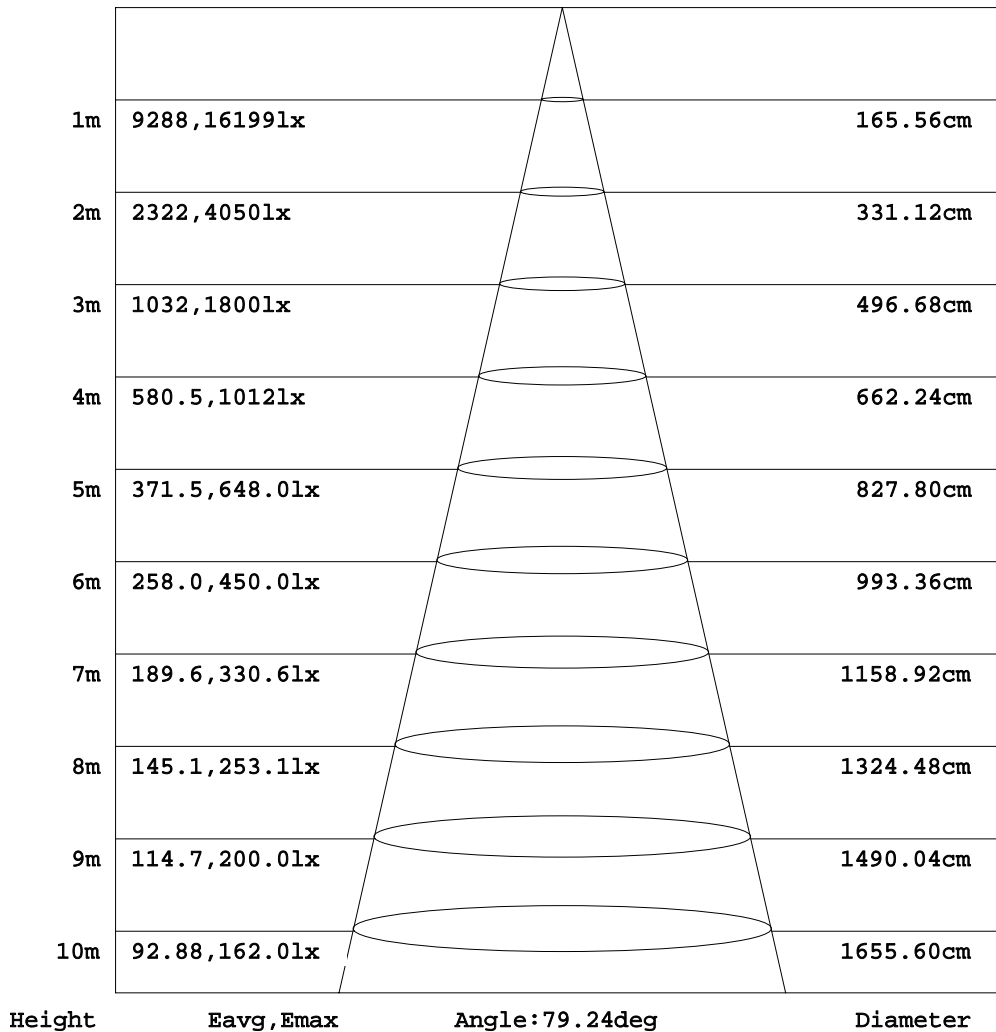
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:



AAI Figure

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:20546 lm



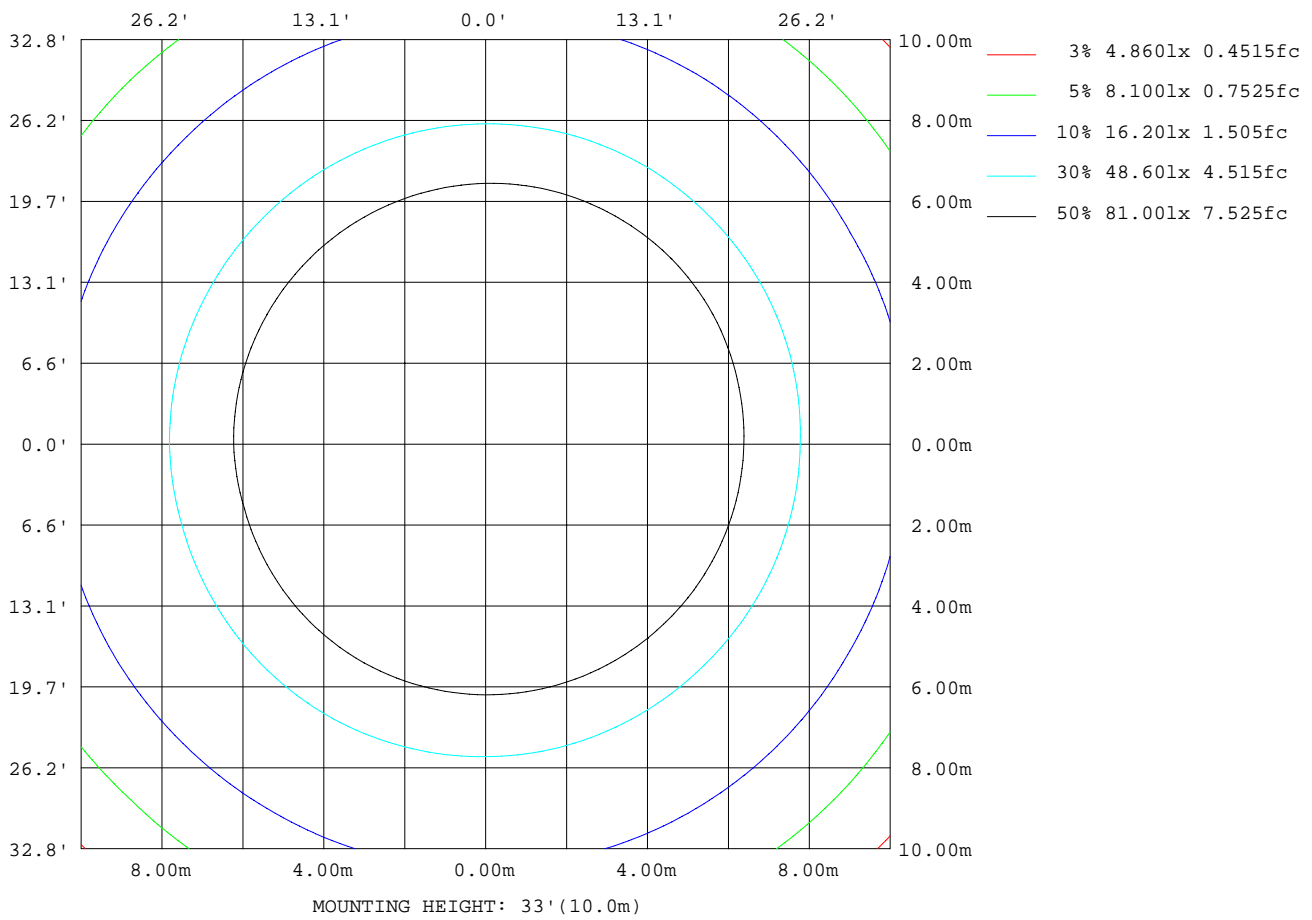
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	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: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

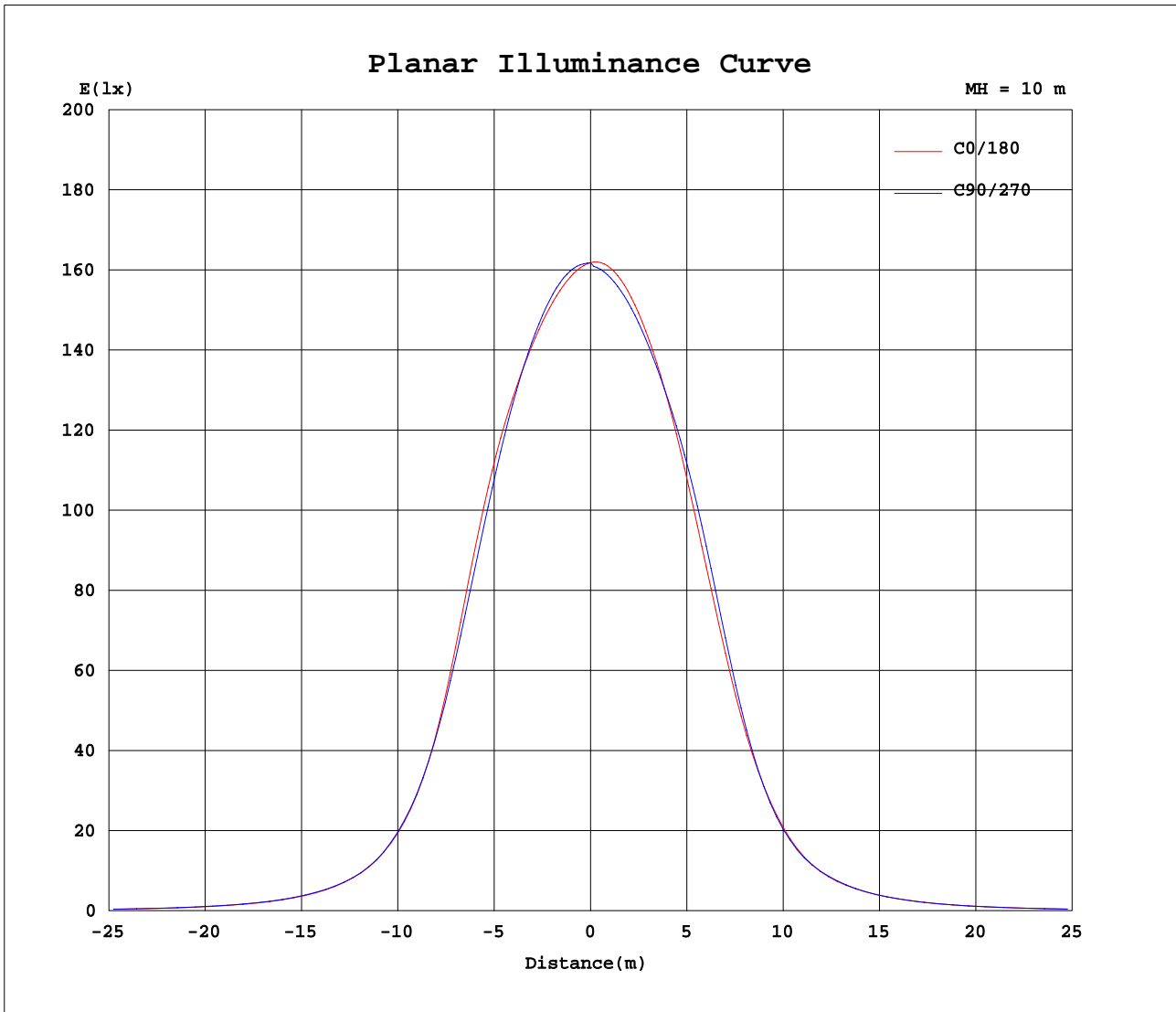
AvgL	cd/m2
L_0~180(65)av	37849
L_0~180(75)av	19824
L_0~180(85)av	8975
L_90~270(65)av	38156
L_90~270(75)av	19666
L_90~270(85)av	8781
L_45(65)av	37537
L_45(75)av	19763
L_45(85)av	8977

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 25 January 2022

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 47.6%  
Test Distance: 2.500m [K=1.0546]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 25 January 2022

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 47.6%  
Test Distance: 2.500m [K=1.0546]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz			Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp		TYPE: LED		WEIGHT:	
SPEC.:ASD-UHB3-200ADAC-BK		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	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618
5	1610	1612	1614	1617	1619	1621	1623	1624	1624	1624	1623	1622	1629	1626	1622	1618	1614	1610	1606
10	1607	1612	1616	1620	1624	1626	1628	1629	1630	1629	1628	1627	1635	1632	1628	1623	1618	1612	1606
15	1610	1615	1619	1623	1625	1626	1626	1626	1626	1625	1624	1623	1632	1630	1627	1623	1618	1613	1607
20	1610	1613	1614	1614	1612	1609	1606	1603	1601	1600	1599	1599	1611	1611	1612	1611	1610	1607	1603
25	1586	1582	1575	1567	1557	1547	1540	1534	1531	1528	1527	1528	1544	1549	1558	1565	1572	1577	1580
30	1471	1457	1441	1426	1412	1402	1395	1390	1387	1385	1381	1382	1402	1412	1423	1436	1451	1466	1481
35	1197	1180	1164	1149	1147	1146	1145	1149	1153	1153	1149	1151	1170	1179	1184	1196	1211	1225	1239
40	835	823	812	808	814	827	835	843	852	853	852	857	873	871	870	873	882	888	890
45	549	531	526	529	534	546	557	560	562	566	573	581	589	579	580	579	582	584	576
50	359	353	341	346	350	349	357	366	357	360	374	373	373	378	378	378	375	377	375
55	237	237	230	232	232	233	242	248	238	242	252	248	251	251	253	254	252	251	253
60	157	157	152	155	153	155	162	165	160	162	170	166	171	169	170	171	170	165	168
65	99.8	102	97.5	99.1	99.4	101	105	107	105	106	111	109	111	110	111	111	111	107	108
70	58.8	59.6	57.9	58.7	60.5	61.4	63.3	65.9	65.5	67.3	69.6	68.5	69.9	69.1	68.9	69.1	67.7	65.3	65.3
75	29.0	30.0	29.5	30.2	31.1	32.2	32.9	34.4	35.2	36.2	37.1	37.0	38.7	38.5	38.1	37.6	36.7	35.6	34.3
80	12.7	13.0	13.1	13.5	13.9	14.5	15.2	15.8	16.4	17.0	17.4	17.3	18.0	18.0	17.9	17.4	17.0	16.0	15.3
85	3.38	3.48	3.71	4.00	4.31	4.67	5.06	5.51	5.82	6.18	6.43	6.57	6.95	6.90	6.74	6.51	6.07	5.51	5.05
90	0.42	0.42	0.44	0.47	0.52	0.61	0.70	0.76	0.69	0.75	0.80	0.82	0.87	0.85	0.80	0.74	0.67	0.64	0.59
95	0.04	0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.20	0.21	0.20	0.19	0.18	0.17	0.14
100	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.11	0.11	0.10	0.10	0.10	0.11	0.11
105	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14
110	0.10	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.18	0.18	0.17	0.17	0.17	0.17	0.18
115	0.14	0.14	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.23	0.23	0.23	0.23	0.23	0.24	0.24
120	0.21	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.19	0.35	0.35	0.35	0.35	0.35	0.36	0.37
125	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.30	0.30	0.28	0.28	0.53	0.53	0.53	0.54	0.54	0.55	0.56
130	0.40	0.40	0.40	0.41	0.42	0.40	0.41	0.41	0.41	0.40	0.39	0.38	0.72	0.72	0.73	0.75	0.77	0.79	0.79
135	0.53	0.54	0.54	0.54	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.51	0.90	0.92	0.94	0.96	0.99	1.00	1.01
140	0.65	0.66	0.67	0.68	0.69	0.69	0.67	0.67	0.66	0.64	0.62	0.64	1.05	1.07	1.10	1.15	1.17	1.19	1.19
145	0.75	0.78	0.79	0.80	0.83	0.83	0.81	0.80	0.78	0.76	0.72	0.73	1.19	1.20	1.24	1.30	1.33	1.35	1.34
150	0.89	0.94	0.95	0.94	0.94	0.94	0.93	0.92	0.90	0.86	0.82	0.85	1.33	1.34	1.35	1.41	1.46	1.49	1.48
155	1.04	1.12	1.14	1.07	1.08	1.08	1.05	1.06	1.04	1.01	1.00	0.99	1.47	1.45	1.50	1.53	1.57	1.60	1.59
160	1.21	1.26	1.26	1.22	1.18	1.15	1.13	1.16	1.15	1.16	1.17	1.17	1.66	1.65	1.66	1.69	1.69	1.70	1.71
165	1.32	1.38	1.38	1.35	1.30	1.27	1.27	1.29	1.30	1.30	1.28	1.30	1.75	1.75	1.75	1.78	1.81	1.80	1.79
170	1.41	1.47	1.47	1.43	1.38	1.37	1.37	1.38	1.37	1.36	1.36	1.43	1.81	1.82	1.84	1.85	1.85	1.85	1.79
175	1.67	1.73	1.71	1.62	1.57	1.50	1.53	1.50	1.48	1.47	1.47	1.56	1.82	1.82	1.84	1.85	1.85	1.83	1.82
180	1.94	1.94	1.94	1.94	1.94	1.94	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.94

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.6290A P:200W PF:0.9980 Freq:60.00Hz Lamp Flux:29000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB3-200ADAC-BK	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1618	1618	1618	1618	1618														
5	1603	1601	1600	1600	1602														
10	1601	1597	1594	1594	1597														
15	1602	1597	1594	1594	1598														
20	1600	1597	1595	1595	1598														
25	1580	1582	1581	1581	1580														
30	1490	1495	1497	1492	1481														
35	1251	1252	1250	1242	1221														
40	891	888	872	862	854														
45	573	565	551	540	548														
50	366	363	357	350	353														
55	245	244	238	233	236														
60	163	163	159	156	161														
65	105	104	103	99.8	104														
70	62.9	61.8	61.0	59.6	60.3														
75	32.5	31.4	31.1	30.0	30.0														
80	14.5	13.9	13.6	13.1	13.2														
85	4.58	4.19	3.97	3.81	3.74														
90	0.55	0.52	0.50	0.48	0.47														
95	0.13	0.11	0.10	0.09	0.08														
100	0.11	0.11	0.11	0.11	0.11														
105	0.14	0.14	0.14	0.14	0.14														
110	0.18	0.18	0.17	0.17	0.17														
115	0.24	0.25	0.25	0.24	0.25														
120	0.37	0.38	0.38	0.38	0.38														
125	0.57	0.57	0.56	0.55	0.55														
130	0.79	0.79	0.76	0.75	0.74														
135	1.00	0.98	0.95	0.94	0.92														
140	1.16	1.14	1.13	1.11	1.09														
145	1.31	1.30	1.29	1.25	1.24														
150	1.45	1.44	1.44	1.40	1.39														
155	1.59	1.57	1.55	1.58	1.56														
160	1.68	1.68	1.69	1.70	1.69														
165	1.76	1.75	1.75	1.75	1.75														
170	1.78	1.77	1.74	1.73	1.76														
175	1.77	1.73	1.72	1.70	1.74														
180	1.94	1.94	1.94	1.94	1.94														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 25 January 2022

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0546]  
 Remarks: