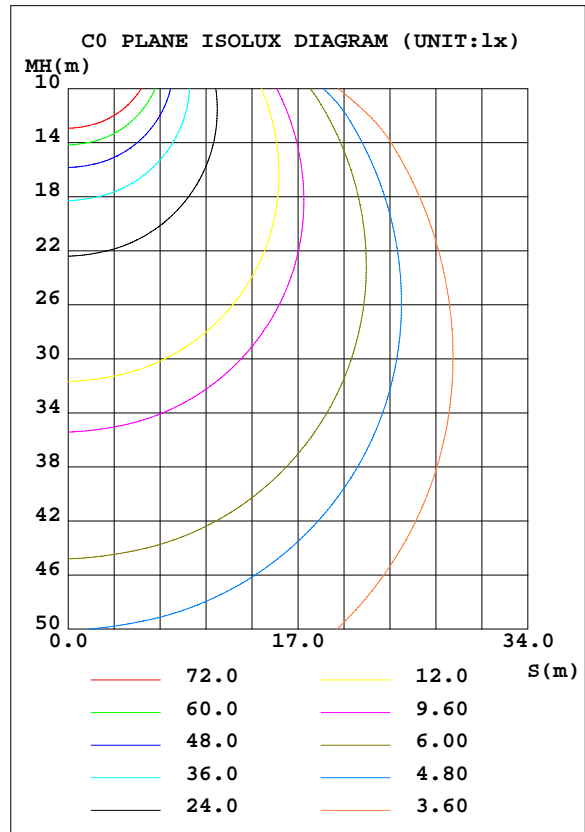
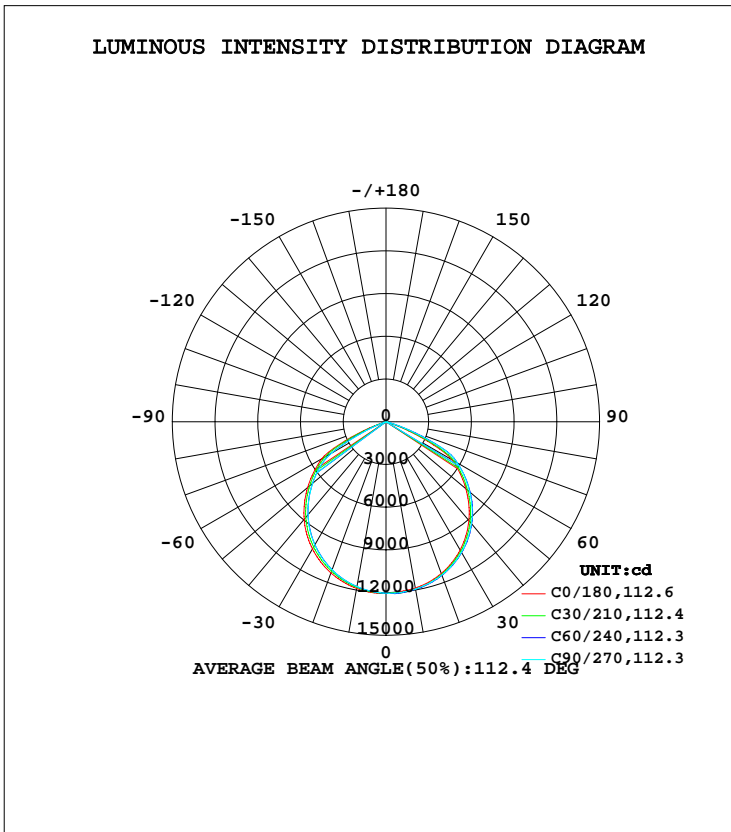


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.11 lm/W			
MODEL	ASD-UHB2HV-200D50-PRM	I _{max} (cd)	12092	S/MH(C0/180)	1.27
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	277-480	TOTAL FLUX(lm)	30000	η UP, DN(C0-180)	0.0,52.6
NOMINAL FLUX(lm)	30000	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,47.3
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277	η down(%)	99.9	CIBSE SHR MAX	1.35



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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1186	1195	1193	1188	1189	1177	1176	1178	0- 10	1141	1141	3.72,3.72
20	1135	1147	1146	1139	1130	1109	1107	1115	10- 20	3279	4420	14.4,14.4
30	1041	1060	1060	1050	1032	1001	999.4	1012	20- 30	4999	9418	30.7,30.7
40	905.6	934.6	933.5	920.2	894.5	856.3	852.4	867.0	30- 40	6055	15473	50.5,50.5
50	732.8	768.6	768.1	752.6	717.9	678.5	672.3	687.2	40- 50	6262	21735	70.9,70.9
60	537.3	575.1	578.2	559.7	520.7	457.1	440.2	463.4	50- 60	5581	27316	89.2,89.2
70	92.27	170.5	173.4	153.7	86.36	30.25	18.88	32.43	60- 70	3051	30366	99.1,99.1
80	2.703	3.440	3.526	3.264	2.642	2.023	1.902	2.039	70- 80	227.1	30593	99.9,99.9
90	0.1583	0.7466	0.7552	0.5248	0.0921	0.1092	0.1075	0.1142	80- 90	14.49	30608	99.9,99.9
100	0.1032	0.0880	0.0850	0.0889	0.2318	0.2623	0.2698	0.2500	90-100	2.110	30610	99.9,99.9
110	0.1736	0.1756	0.2347	0.1823	0.3465	0.3582	0.3659	0.3556	100-110	2.414	30612	99.9,99.9
120	0.2783	0.2579	0.2796	0.2792	0.4237	0.4701	0.4851	0.4630	110-120	3.109	30615	99.9,99.9
130	0.4496	0.3977	0.4102	0.4257	0.6568	0.7111	0.7448	0.6568	120-130	4.071	30619	99.9,99.9
140	0.6113	0.5462	0.5776	0.5844	0.8320	0.9248	0.9262	0.8595	130-140	4.995	30624	100,100
150	0.7038	0.6637	0.6883	0.6855	0.9867	1.028	1.019	0.9866	140-150	4.981	30629	100,100
160	0.8502	0.7579	0.7481	0.7896	1.115	1.151	1.104	1.097	150-160	4.122	30634	100,100
170	0.9518	0.8928	0.8513	0.9233	1.168	1.174	1.118	1.087	160-170	2.789	30636	100,100
180	0.8904	0.8904	0.8904	0.8904	1.017	1.017	1.017	1.017	170-180	0.9801	30637	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18635 lm

%lum = 60.8%

%lamp = 60.8%

Conical surface Flux(120deg): 27316 lm

%lum = 89.2%

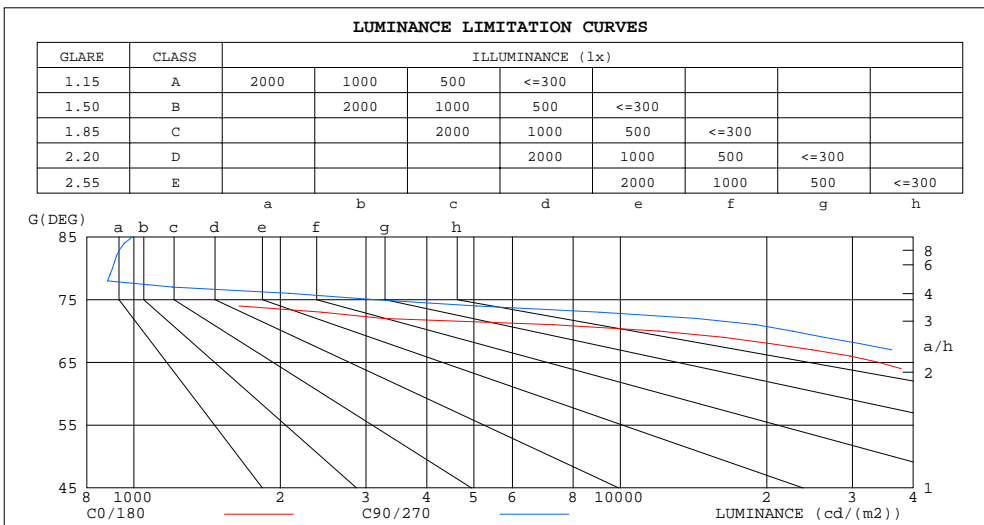
%lamp = 89.2%

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



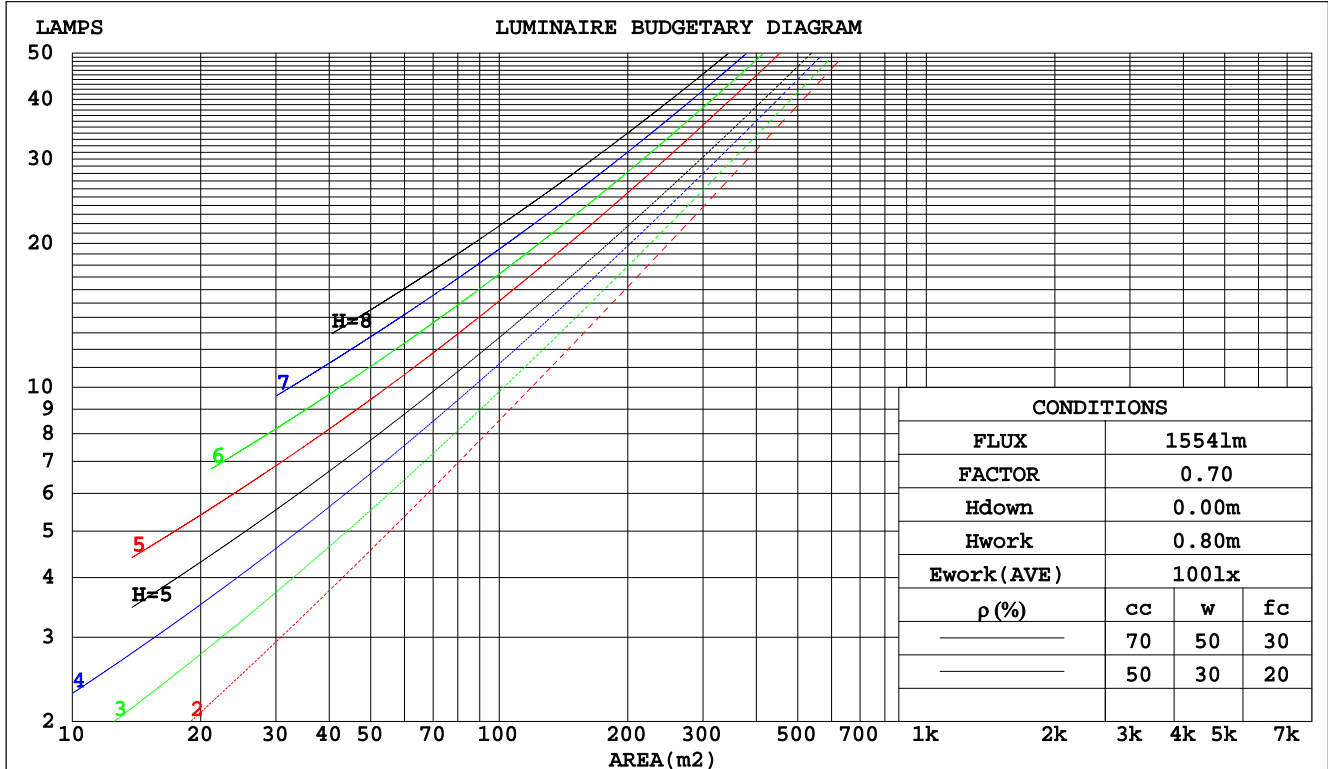
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	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%	0
pw																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	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.76	.71	.82	.75	.70	.79	.74	.69	.77	.72	.68	.74	.70	.66	.64
4.0	.75	.67	.60	.73	.66	.60	.71	.64	.59	.69	.63	.58	.66	.62	.58	.56
5.0	.67	.58	.52	.66	.58	.52	.64	.57	.51	.62	.56	.51	.60	.55	.50	.48
6.0	.60	.52	.46	.59	.51	.45	.58	.50	.45	.56	.50	.45	.54	.49	.44	.42
7.0	.55	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.40	.50	.44	.39	.37
8.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.47	.40	.35	.45	.40	.35	.33
9.0	.46	.38	.32	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

WEC AND CCEC

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.255	.145	.046	.248	.141	.045	.235	.135	.043	.223	.129	.041	.212	.123	.040	
2.0	.252	.138	.042	.246	.136	.042	.235	.130	.041	.224	.126	.039	.214	.121	.038	
3.0	.241	.128	.038	.236	.126	.038	.226	.122	.037	.217	.119	.036	.208	.115	.036	
4.0	.228	.118	.035	.223	.117	.035	.214	.114	.034	.206	.111	.033	.198	.108	.033	
5.0	.214	.109	.032	.210	.108	.031	.202	.105	.031	.195	.103	.031	.188	.100	.030	
6.0	.201	.101	.029	.198	.100	.029	.191	.098	.028	.184	.096	.028	.178	.094	.028	
7.0	.189	.094	.027	.186	.093	.026	.180	.091	.026	.174	.089	.026	.168	.087	.026	
8.0	.178	.087	.024	.175	.086	.024	.169	.085	.024	.164	.083	.024	.159	.082	.024	
9.0	.168	.081	.023	.165	.080	.023	.160	.079	.022	.155	.078	.022	.151	.076	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.021	

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	.177	.157	.139	.152	.135	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.168	.133	.104	.144	.114	.090	.098	.079	.062	.057	.046	.037	.018	.015	.012	
3.0	.160	.115	.079	.137	.099	.069	.094	.069	.048	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.062	.131	.088	.054	.090	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.145	.091	.050	.125	.078	.044	.086	.055	.031	.050	.032	.018	.016	.011	.006	
6.0	.139	.082	.042	.119	.071	.036	.082	.050	.026	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.035	.114	.065	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004	
8.0	.127	.070	.030	.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	.100	.052	.021	.069	.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 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2HV-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	26.4	28.0	26.8	28.3	28.6	26.7	28.2	27.1	28.5	28.9
3H	26.8	28.1	27.1	28.5	28.8	27.4	28.8	27.8	29.1	29.5
4H	26.7	28.0	27.1	28.3	28.7	27.3	28.6	27.7	29.0	29.4
6H	26.6	27.8	27.1	28.2	28.6	27.3	28.5	27.7	28.8	29.2
8H	26.6	27.7	27.0	28.1	28.5	27.3	28.4	27.7	28.8	29.2
12H	26.6	27.6	27.0	28.0	28.5	27.2	28.3	27.7	28.7	29.1
4H 2H	27.0	28.3	27.4	28.6	29.0	27.2	28.4	27.6	28.8	29.2
3H	27.3	28.4	27.8	28.8	29.2	27.9	28.9	28.3	29.3	29.7
4H	27.3	28.2	27.7	28.6	29.1	27.8	28.7	28.2	29.1	29.6
6H	27.2	28.0	27.7	28.5	28.9	27.7	28.5	28.2	29.0	29.5
8H	27.2	27.9	27.6	28.4	28.8	27.7	28.4	28.2	28.9	29.4
12H	27.1	27.8	27.6	28.3	28.8	27.7	28.3	28.2	28.8	29.3
8H 4H	27.2	27.9	27.7	28.4	28.9	27.7	28.5	28.2	28.9	29.4
6H	27.1	27.7	27.6	28.2	28.7	27.6	28.2	28.1	28.7	29.2
8H	27.1	27.6	27.6	28.1	28.6	27.6	28.1	28.1	28.6	29.1
12H	27.0	27.5	27.5	28.0	28.6	27.6	28.0	28.1	28.5	29.1
12H 4H	27.2	27.8	27.7	28.3	28.8	27.7	28.3	28.2	28.8	29.3
6H	27.1	27.6	27.6	28.1	28.6	27.6	28.1	28.1	28.6	29.2
8H	27.0	27.5	27.5	28.0	28.6	27.5	28.0	28.1	28.5	29.1
CIE190: 2010										

CIE190: 2010
Area: 0.224687 m2

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

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 43.6%
Test Distance: 2.500m [K=1.0417]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

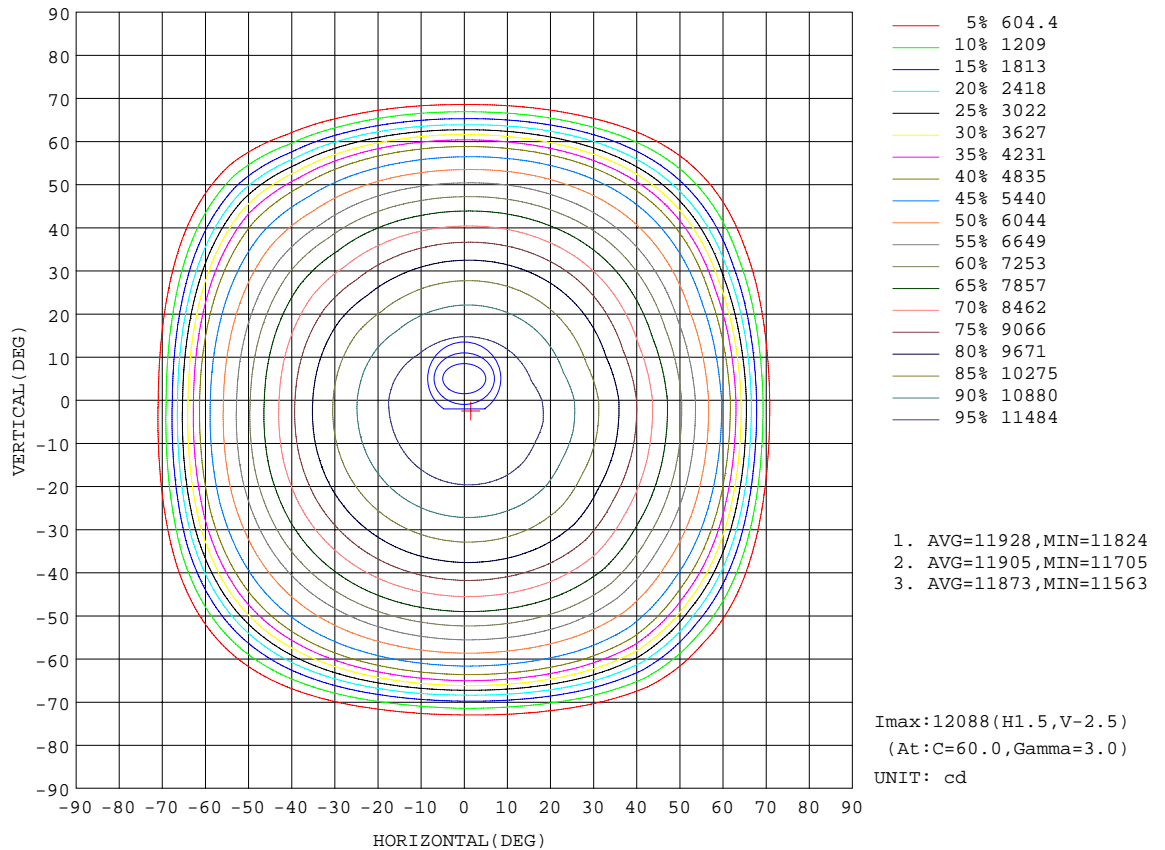
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	49	42	58	48	42	36
0.80	71	60	53	70	60	53	68	59	52	46
1.00	80	70	63	79	69	63	77	70	62	56
1.25	87	78	72	86	77	71	83	76	70	64
1.50	92	83	77	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	94	88	84	77
2.50	102	96	90	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	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: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

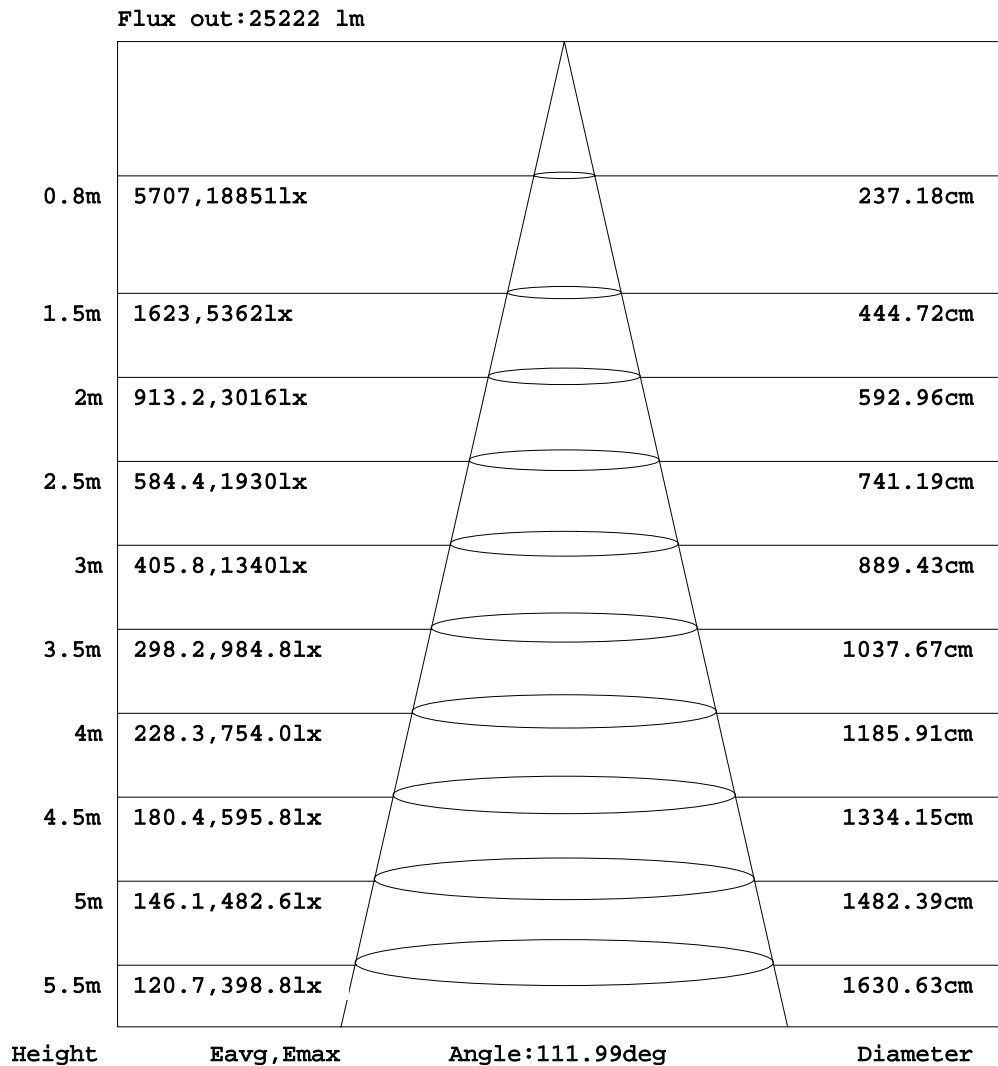


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 23 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

AAI Figure

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



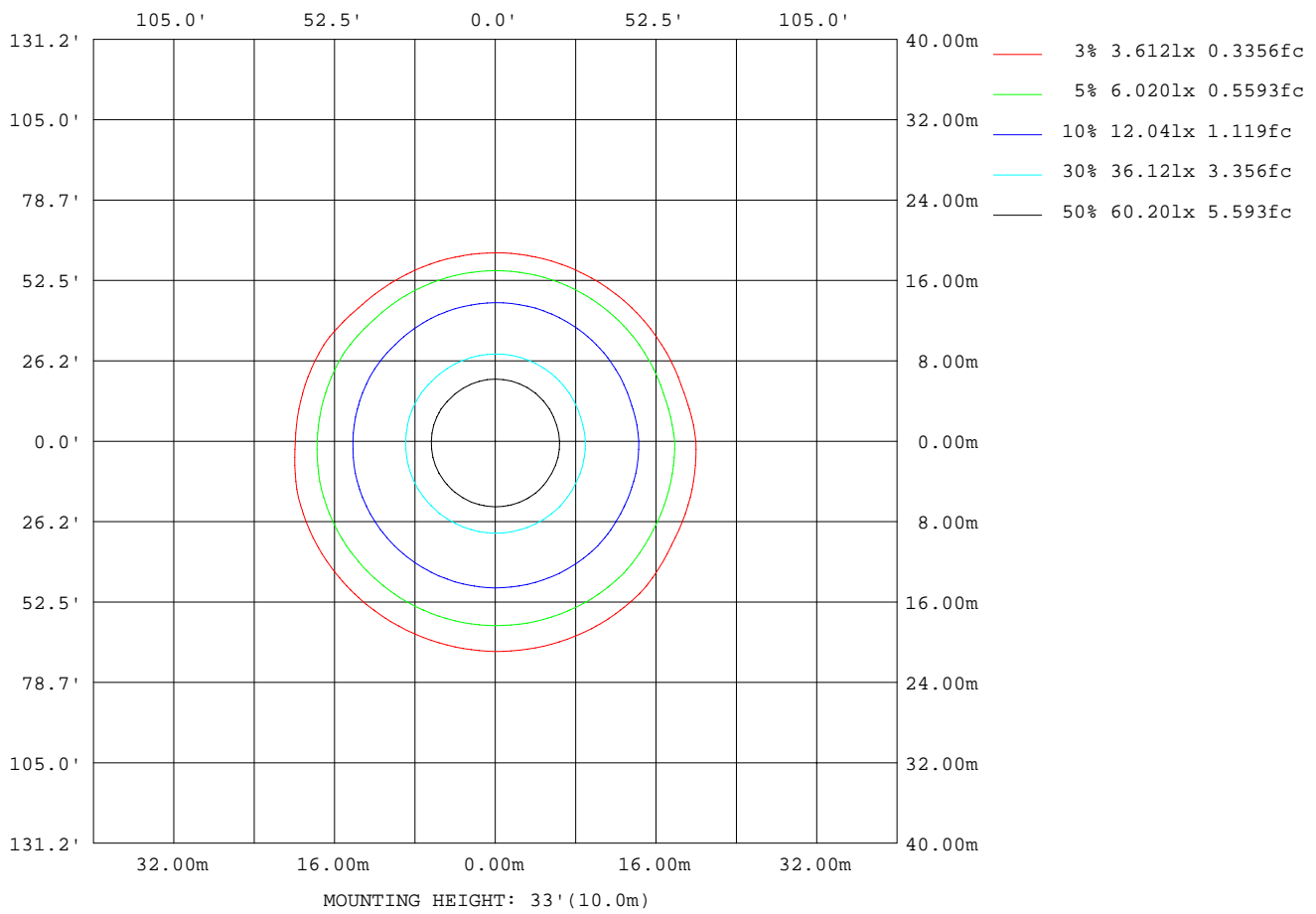
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

ISOLUX DIAGRAM

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	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 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

LED Avg.L Report

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-200D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

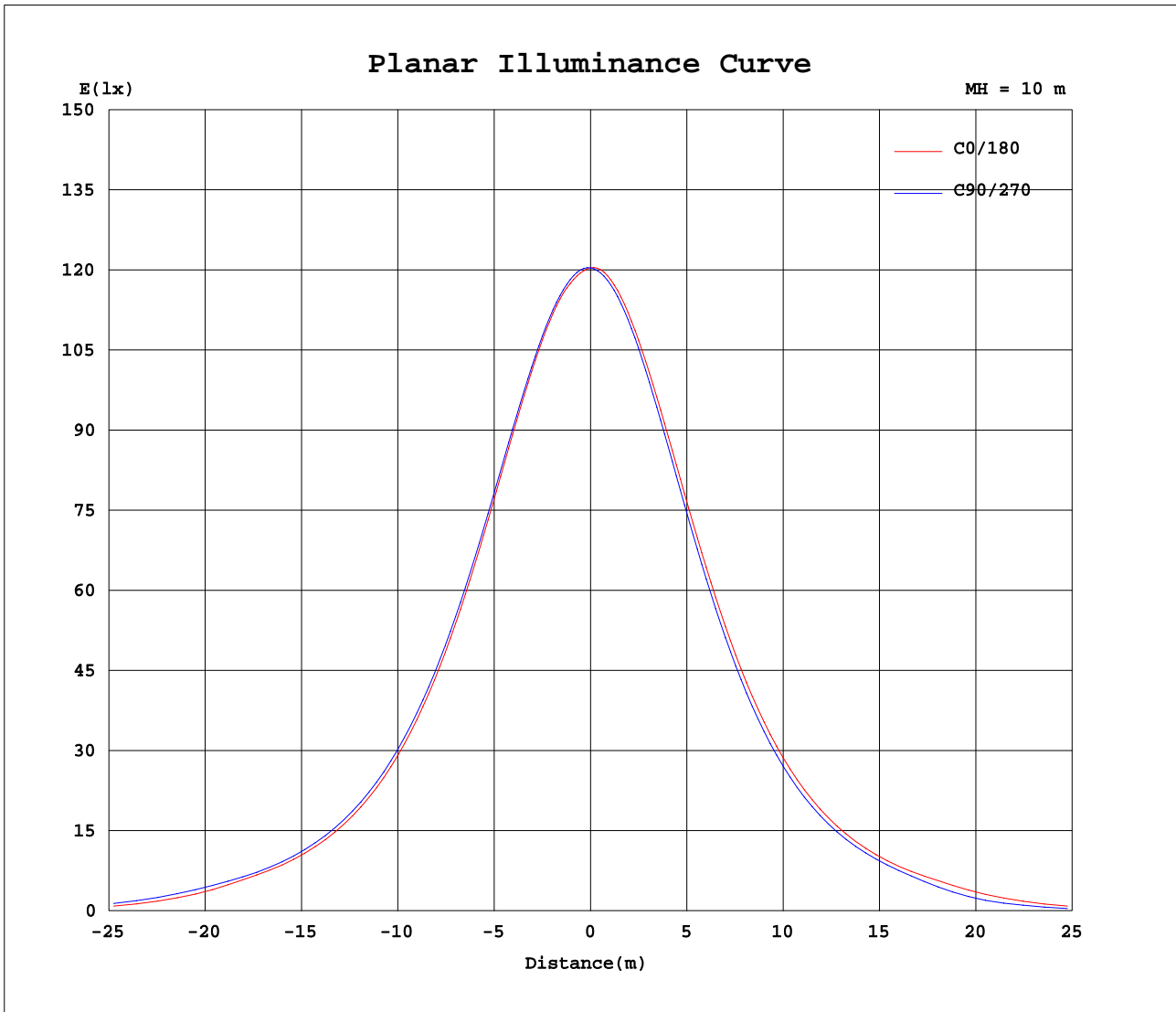
AvgL	cd/m2
L_0~180(65)av	33698
L_0~180(75)av	757
L_0~180(85)av	615
L_90~270(65)av	32473
L_90~270(75)av	1881
L_90~270(85)av	657
L_45(65)av	32909
L_45(75)av	1556
L_45(85)av	641

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 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 43.6%
Test Distance: 2.500m [K=1.0417]
Remarks:

Planar Illuminance Curve



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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-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	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204
5	1196	1202	1207	1207	1206	1205	1203	1201	1200	1199	1202	1205	1203	1201	1198	1196	1195	1195	1195
10	1186	1193	1194	1195	1196	1194	1193	1191	1190	1188	1187	1189	1189	1186	1181	1177	1176	1175	1176
15	1166	1172	1173	1176	1177	1176	1174	1172	1170	1168	1165	1165	1164	1160	1155	1148	1146	1146	1147
20	1135	1141	1142	1147	1148	1147	1146	1144	1142	1139	1135	1132	1130	1125	1118	1109	1106	1106	1107
25	1093	1099	1101	1108	1110	1109	1108	1105	1102	1099	1095	1091	1086	1080	1072	1060	1057	1056	1058
30	1041	1047	1050	1060	1062	1062	1060	1057	1054	1050	1045	1039	1032	1025	1016	1001	998	998	999
35	979	986	989	1002	1004	1004	1002	999	995	990	985	978	969	961	951	934	929	929	931
40	906	914	919	935	937	936	934	931	926	920	915	907	895	887	876	856	852	851	852
45	823	832	838	857	859	857	855	852	847	841	834	826	810	802	792	771	767	764	765
50	733	742	749	769	772	771	768	764	759	753	746	736	718	709	700	678	674	671	672
55	637	646	653	674	679	678	676	671	665	658	650	640	621	612	603	580	575	572	574
60	537	545	552	575	580	579	578	573	567	560	551	540	521	507	494	457	445	440	440
65	323	345	362	420	429	429	425	415	405	396	387	369	317	297	275	215	201	194	192
70	92.3	108	124	171	180	178	173	167	162	154	144	131	86.4	81.0	68.1	30.3	22.6	21.2	18.9
75	4.42	7.13	6.29	13.7	14.6	21.1	18.3	17.3	15.9	15.0	12.7	6.49	4.39	4.36	4.28	3.86	3.76	3.68	3.62
80	2.70	2.87	3.02	3.44	3.52	3.55	3.53	3.47	3.38	3.26	3.15	3.01	2.64	2.55	2.44	2.02	1.94	1.91	1.90
85	1.25	1.38	1.52	1.88	1.95	1.96	1.95	1.90	1.82	1.70	1.59	1.47	1.16	1.07	0.96	0.69	0.64	0.62	0.63
90	0.16	0.38	0.57	0.75	0.79	0.80	0.76	0.70	0.61	0.52	0.43	0.35	0.09	0.10	0.10	0.11	0.11	0.11	0.11
95	0.07	0.07	0.07	0.14	0.21	0.26	0.20	0.16	0.09	0.06	0.06	0.06	0.15	0.15	0.16	0.18	0.18	0.18	0.18
100	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.23	0.24	0.24	0.26	0.27	0.27
105	0.14	0.14	0.14	0.13	0.14	0.17	0.17	0.17	0.15	0.13	0.13	0.14	0.31	0.31	0.32	0.33	0.33	0.33	0.33
110	0.17	0.17	0.17	0.18	0.21	0.23	0.23	0.22	0.20	0.18	0.17	0.17	0.35	0.35	0.35	0.36	0.36	0.36	0.37
115	0.21	0.21	0.21	0.22	0.25	0.26	0.27	0.27	0.25	0.23	0.22	0.21	0.37	0.37	0.38	0.39	0.40	0.40	0.41
120	0.28	0.27	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.28	0.27	0.27	0.42	0.43	0.44	0.47	0.48	0.48	0.49
125	0.36	0.34	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.34	0.34	0.53	0.54	0.54	0.59	0.60	0.61	0.61
130	0.45	0.43	0.41	0.40	0.40	0.40	0.41	0.41	0.42	0.43	0.42	0.43	0.66	0.67	0.68	0.71	0.73	0.75	0.74
135	0.53	0.52	0.50	0.47	0.50	0.47	0.49	0.49	0.51	0.50	0.51	0.52	0.77	0.78	0.79	0.83	0.84	0.85	0.85
140	0.61	0.60	0.58	0.55	0.57	0.55	0.58	0.58	0.58	0.58	0.59	0.61	0.83	0.86	0.88	0.92	0.93	0.94	0.93
145	0.66	0.66	0.64	0.63	0.63	0.64	0.64	0.65	0.64	0.65	0.63	0.66	0.92	0.94	0.95	0.98	1.00	1.02	1.00
150	0.70	0.70	0.68	0.66	0.69	0.69	0.69	0.70	0.70	0.69	0.67	0.68	0.99	0.99	1.00	1.03	1.04	1.06	1.02
155	0.77	0.78	0.76	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	1.04	1.04	1.07	1.08	1.08	1.09	1.05
160	0.85	0.84	0.81	0.76	0.76	0.76	0.75	0.78	0.79	0.79	0.80	0.80	1.12	1.11	1.11	1.15	1.16	1.15	1.10
165	0.90	0.90	0.88	0.83	0.80	0.79	0.77	0.83	0.86	0.87	0.87	0.86	1.14	1.15	1.16	1.19	1.21	1.19	1.14
170	0.95	0.95	0.93	0.89	0.86	0.85	0.85	0.89	0.91	0.92	0.92	0.91	1.17	1.16	1.16	1.17	1.18	1.17	1.12
175	1.04	1.00	0.96	0.92	0.90	0.90	0.89	0.91	0.92	0.93	0.94	0.95	1.17	1.17	1.17	1.17	1.17	1.14	1.10
180	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	1.02	1.02	1.02	1.02	1.02	1.02	1.02

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:0.7308A P:201.41W PF:0.9950 Freq:60.00Hz Lamp Flux:30000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2HV-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	1204	1204	1204	1204	1204														
5	1194	1195	1195	1195	1195														
10	1176	1177	1178	1179	1180														
15	1148	1150	1152	1154	1156														
20	1109	1112	1115	1118	1121														
25	1060	1064	1068	1072	1076														
30	1002	1007	1012	1017	1021														
35	935	939	945	951	957														
40	857	861	867	873	880														
45	769	773	780	787	795														
50	678	681	687	694	704														
55	580	584	591	597	607														
60	442	451	463	478	493														
65	199	208	218	232	256														
70	21.6	24.0	32.4	42.3	56.4														
75	3.59	3.59	3.64	3.73	3.87														
80	1.92	1.96	2.04	2.14	2.28														
85	0.65	0.69	0.75	0.82	0.93														
90	0.11	0.11	0.11	0.13	0.17														
95	0.17	0.17	0.17	0.16	0.16														
100	0.27	0.26	0.25	0.25	0.23														
105	0.34	0.32	0.32	0.31	0.30														
110	0.37	0.36	0.36	0.35	0.33														
115	0.41	0.40	0.39	0.38	0.36														
120	0.48	0.47	0.46	0.44	0.42														
125	0.60	0.58	0.56	0.54	0.52														
130	0.73	0.70	0.66	0.65	0.63														
135	0.81	0.78	0.77	0.77	0.74														
140	0.89	0.88	0.86	0.85	0.81														
145	0.97	0.95	0.93	0.92	0.88														
150	0.99	0.98	0.99	0.98	0.92														
155	1.03	1.03	1.03	1.05	0.98														
160	1.06	1.08	1.10	1.10	1.02														
165	1.11	1.10	1.11	1.12	1.03														
170	1.09	1.08	1.09	1.10	1.01														
175	1.08	1.08	1.11	1.09	1.05														
180	1.02	1.02	1.02	1.02	1.02														

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 43.6%
 Test Distance: 2.500m [K=1.0417]
 Remarks: