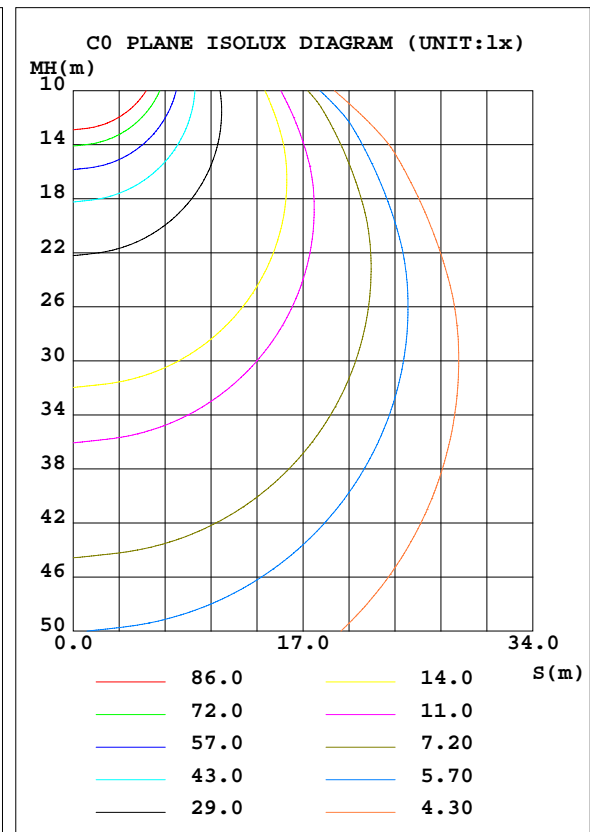
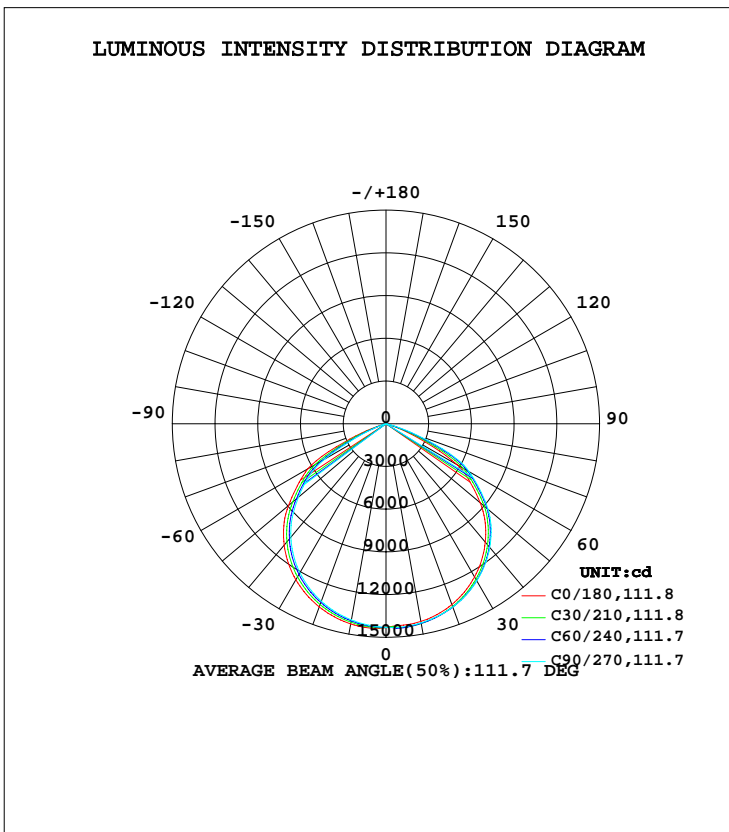


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:35520 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.69 lm/W			
MODEL	ASD-UHB2-240D50-PRM	Imax(cd)	14416	S/MH(C0/180)	1.31
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	36702	η UP, DN(C0-180)	0.0,52.3
NOMINAL FLUX(lm)	35520	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,47.6
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: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 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	1410	1424	1420	1411	1427	1410	1399	1395	0- 10	1357	1357	3.7,3.7
20	1352	1369	1370	1359	1369	1344	1327	1324	10- 20	3916	5273	14.4,14.4
30	1243	1268	1275	1263	1265	1232	1209	1206	20- 30	6006	11279	30.7,30.7
40	1085	1119	1134	1120	1112	1068	1039	1041	30- 40	7332	18611	50.7,50.7
50	862.7	916.5	935.4	914.7	893.3	837.6	802.8	805.4	40- 50	7614	26224	71.5,71.5
60	579.5	644.9	674.3	662.1	635.4	548.8	496.4	506.2	50- 60	6586	32810	89.4,89.4
70	94.84	167.4	221.6	204.0	147.4	83.02	51.27	56.19	60- 70	3506	36316	98.9,98.9
80	2.842	3.257	3.536	3.554	3.096	2.519	2.268	2.461	70- 80	335.4	36651	99.9,99.9
90	0.1188	0.4637	0.6869	0.6585	0.5129	0.2161	0.2825	0.2897	80- 90	16.64	36668	99.9,99.9
100	0.1214	0.1030	0.0929	0.0941	0.2433	0.2826	0.3090	0.3006	90-100	2.014	36670	99.9,99.9
110	0.2087	0.1996	0.1909	0.1914	0.3847	0.4143	0.4355	0.4325	100-110	2.702	36673	99.9,99.9
120	0.3414	0.3085	0.3134	0.3221	0.4840	0.5361	0.5754	0.5472	110-120	3.564	36676	99.9,99.9
130	0.5430	0.4791	0.4879	0.4961	0.7593	0.8245	0.8813	0.7878	120-130	4.784	36681	99.9,99.9
140	0.7350	0.6635	0.6643	0.6722	0.9725	1.082	1.099	1.017	130-140	5.918	36687	100,100
150	0.8467	0.7745	0.7996	0.7855	1.128	1.205	1.195	1.135	140-150	5.809	36693	100,100
160	0.9838	0.8750	0.8567	0.9191	1.296	1.321	1.243	1.236	150-160	4.754	36697	100,100
170	1.103	1.042	0.9939	1.067	1.367	1.368	1.289	1.261	160-170	3.231	36701	100,100
180	0.7623	0.7623	0.7623	0.7623	1.081	1.081	1.081	1.081	170-180	1.144	36702	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 22461 lm

%lum = 61.2%

%lamp = 61.2%

Conical surface Flux(120deg): 32810 lm

%lum = 89.4%

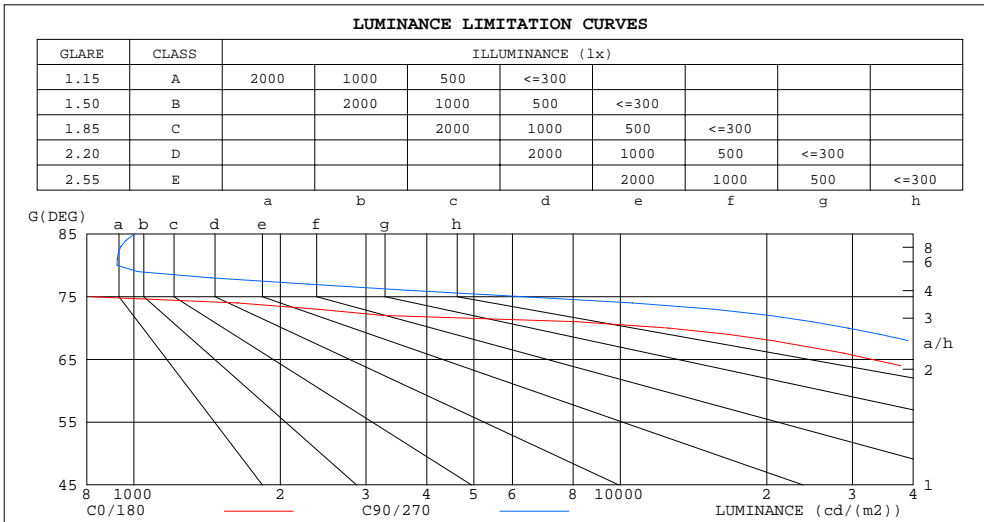
%lamp = 89.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	693	1004
80	742	923
75	813	6322
70	12575	29387
65	32923	52166
60	52563	61162
55	57468	63499
50	60869	65996
45	63255	66978

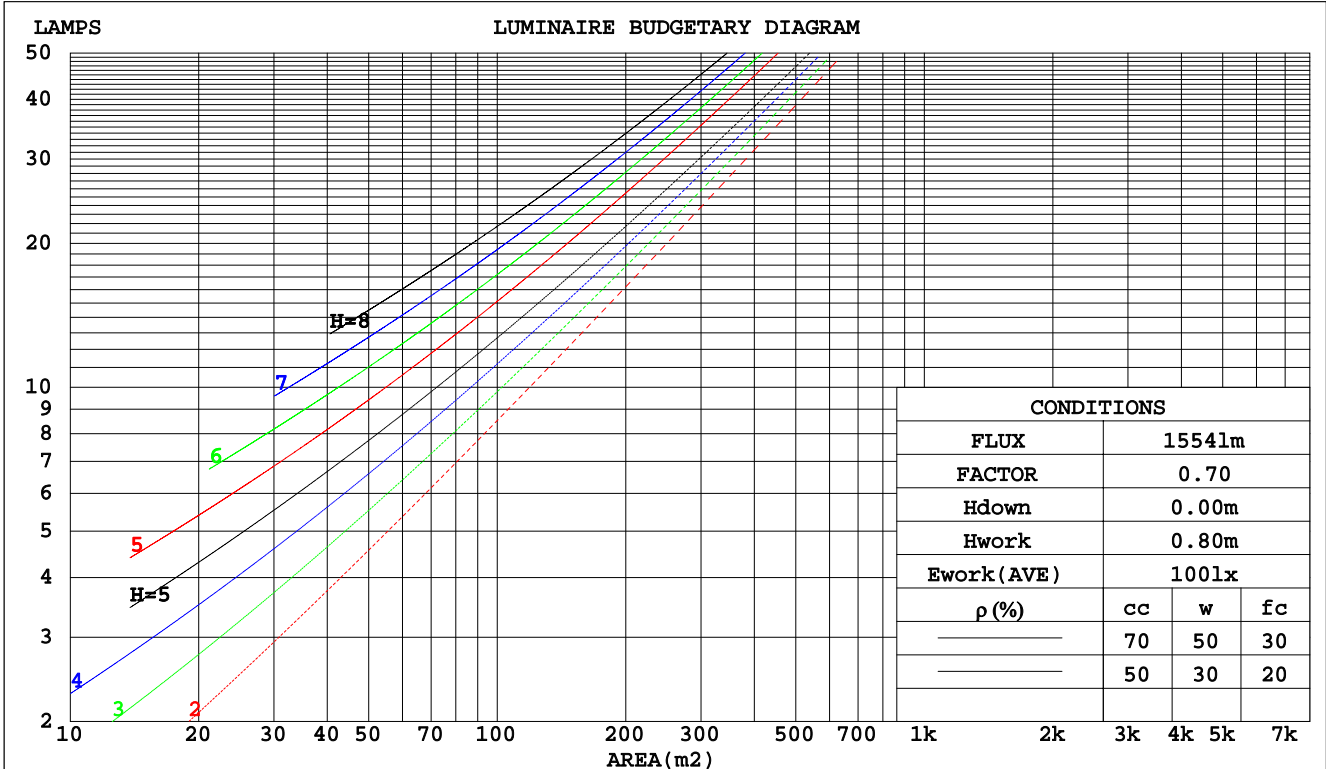
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-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	1.07	1.03	1.00	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	.77	.71	.82	.76	.70	.79	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.75	.67	.60	.73	.66	.60	.71	.64	.59	.69	.63	.58	.67	.62	.58	.56
5.0	.67	.59	.52	.66	.58	.52	.64	.57	.51	.62	.56	.51	.60	.55	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.58	.51	.45	.56	.50	.45	.54	.49	.44	.42
7.0	.55	.46	.40	.54	.46	.40	.52	.45	.40	.51	.45	.40	.50	.44	.39	.38
8.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.34
9.0	.46	.38	.32	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10.0	.42	.35	.29	.42	.34	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-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	.255	.145	.046	.248	.141	.045	.235	.135	.043	.223	.128	.041	.212	.123	.040	
2.0	.252	.138	.042	.246	.135	.042	.234	.130	.040	.224	.126	.039	.214	.121	.038	
3.0	.241	.128	.038	.235	.126	.038	.225	.122	.037	.216	.118	.036	.208	.115	.036	
4.0	.228	.118	.035	.223	.117	.034	.214	.113	.034	.206	.110	.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	.197	.100	.029	.190	.098	.028	.184	.095	.028	.177	.093	.028	
7.0	.189	.093	.026	.186	.092	.026	.179	.091	.026	.173	.089	.026	.168	.087	.026	
8.0	.178	.087	.024	.175	.086	.024	.169	.084	.024	.164	.083	.024	.159	.082	.024	
9.0	.168	.081	.023	.165	.080	.023	.160	.079	.022	.155	.078	.022	.150	.076	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.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	.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	.087	.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	.010	.006	
6.0	.139	.082	.042	.119	.071	.036	.082	.050	.026	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.035	.114	.065	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004	
8.0	.126	.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	.099	.052	.021	.069	.037	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2-240D50-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	26.8	28.3	27.2	28.7	29.0	27.3	28.9	27.7	29.2	29.5
3H	27.1	28.4	27.4	28.8	29.1	28.2	29.5	28.5	29.9	30.2
4H	27.0	28.3	27.4	28.6	29.0	28.1	29.4	28.5	29.8	30.1
6H	26.9	28.1	27.4	28.5	28.9	28.1	29.2	28.5	29.6	30.0
8H	26.9	28.0	27.3	28.4	28.8	28.0	29.2	28.5	29.5	29.9
12H	26.9	27.9	27.3	28.3	28.8	28.0	29.1	28.4	29.5	29.9
4H 2H	27.2	28.5	27.6	28.9	29.2	27.8	29.1	28.2	29.4	29.8
3H	27.5	28.6	27.9	29.0	29.4	28.6	29.7	29.0	30.1	30.5
4H	27.5	28.4	27.9	28.8	29.2	28.6	29.5	29.0	29.9	30.4
6H	27.4	28.2	27.9	28.6	29.1	28.5	29.3	29.0	29.8	30.3
8H	27.4	28.1	27.8	28.5	29.0	28.5	29.2	29.0	29.7	30.2
12H	27.3	28.0	27.8	28.5	28.9	28.5	29.1	28.9	29.6	30.1
8H 4H	27.4	28.1	27.8	28.6	29.0	28.5	29.3	29.0	29.7	30.2
6H	27.3	27.9	27.8	28.4	28.9	28.4	29.0	28.9	29.5	30.0
8H	27.2	27.8	27.8	28.3	28.8	28.4	28.9	28.9	29.4	29.9
12H	27.2	27.7	27.7	28.2	28.8	28.4	28.8	28.9	29.3	29.9
12H 4H	27.3	28.0	27.8	28.5	29.0	28.5	29.1	29.0	29.6	30.1
6H	27.3	27.8	27.8	28.3	28.8	28.4	28.9	28.9	29.4	30.0
8H	27.2	27.7	27.7	28.2	28.8	28.4	28.8	28.9	29.3	29.9
CIE190: 2010										

CIE190: 2010
Area: 0.220507 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.6DEG
Operators: Alan Wang
Test Date: 23 January 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.9%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

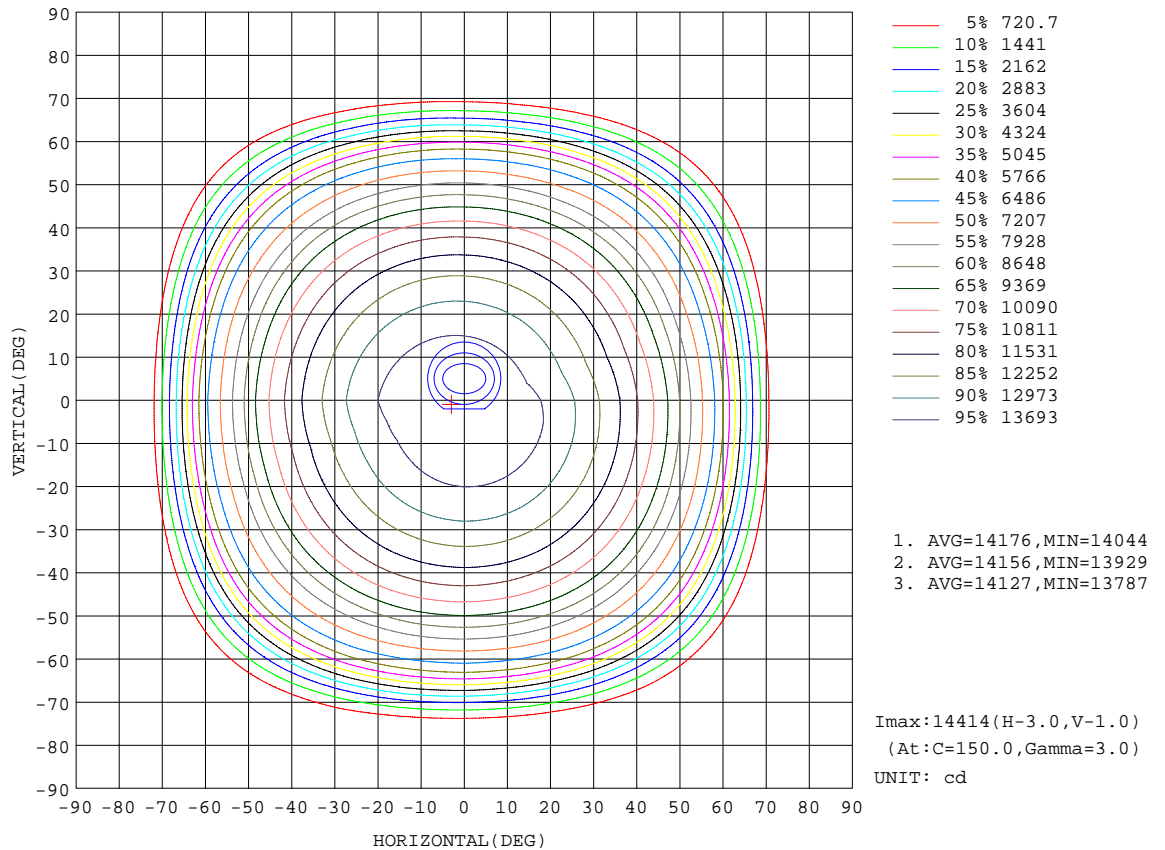
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	49	42	58	48	42	36
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	70	63	79	69	63	77	71	63	56
1.25	87	78	72	86	77	71	83	76	70	64
1.50	92	84	77	91	83	77	88	81	76	69
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	96	90	100	94	90	97	92	88	80
3.00	105	100	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: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

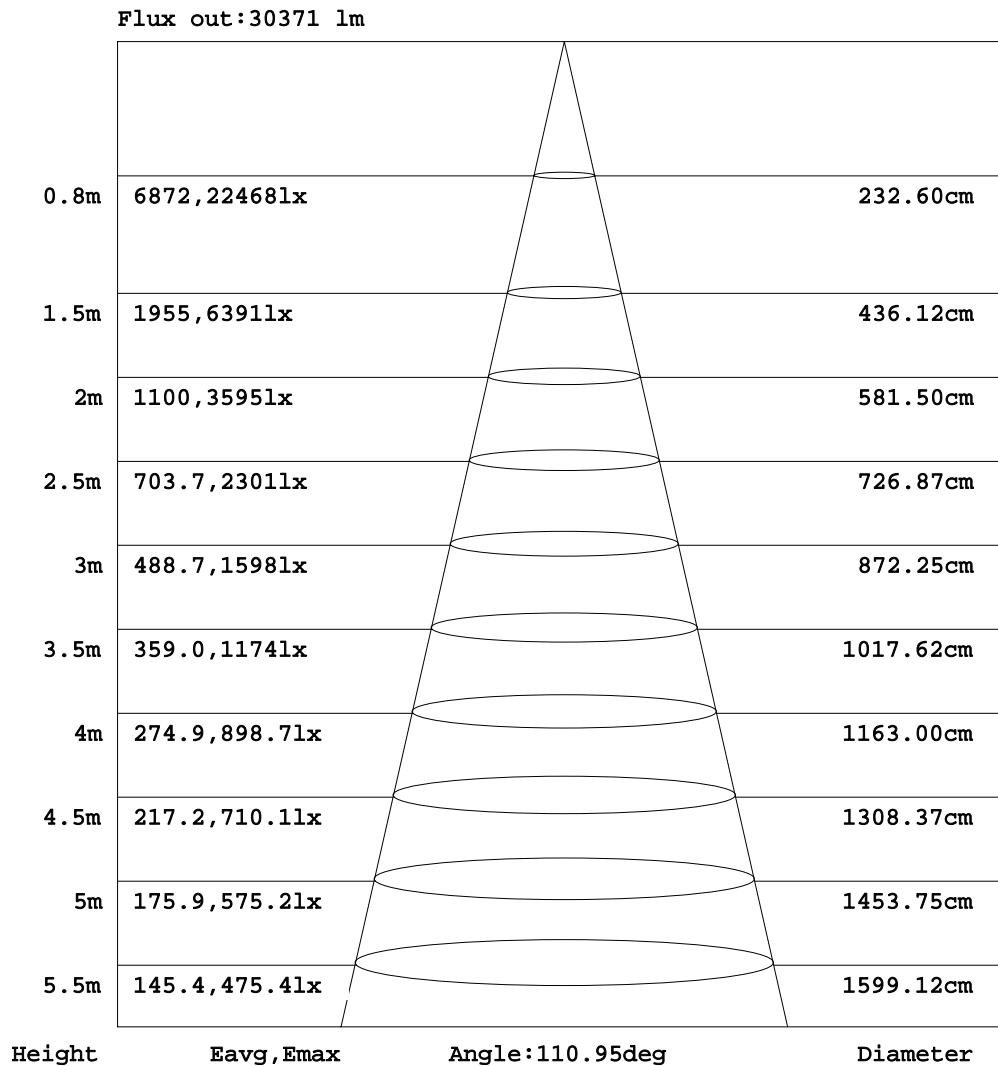


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



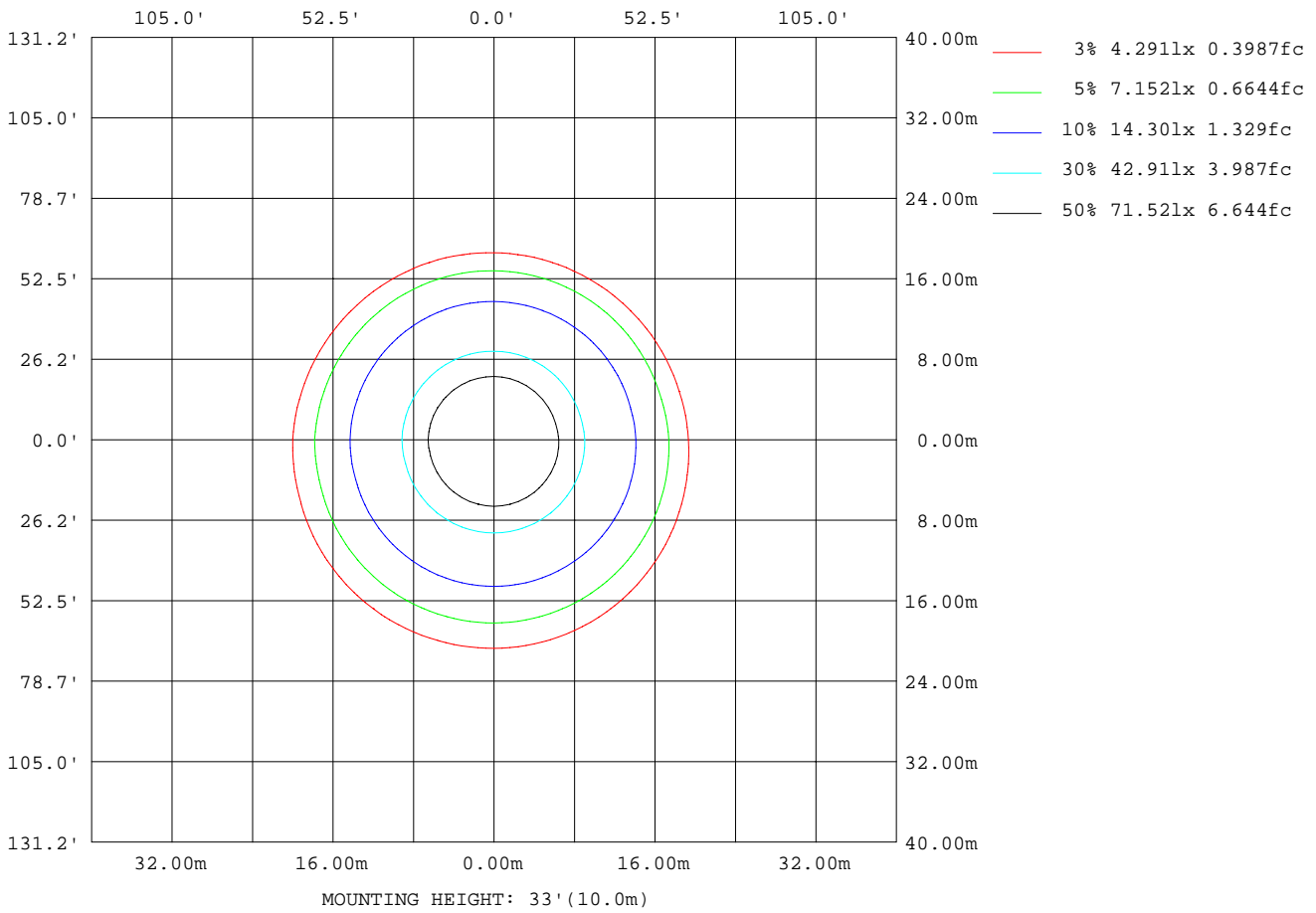
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Alan Wang
 Test Date:23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance:2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

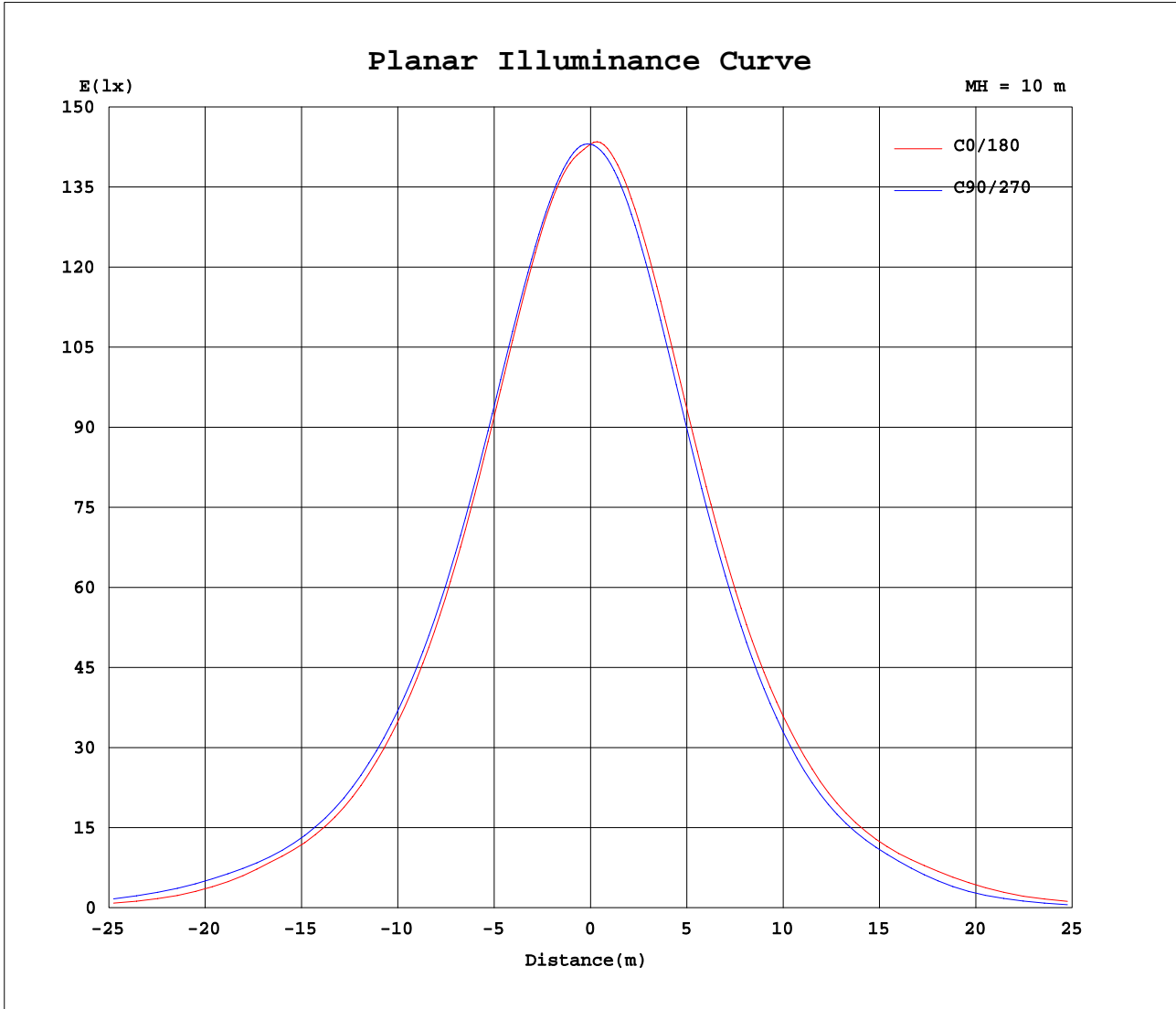
AvgL	cd/m2
L_0~180(65)av	37172
L_0~180(75)av	1018
L_0~180(85)av	765
L_90~270(65)av	38607
L_90~270(75)av	3500
L_90~270(85)av	751
L_45(65)av	38089
L_45(75)av	2255
L_45(85)av	758

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-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	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
5	1419	1428	1436	1439	1437	1434	1431	1428	1425	1426	1433	1439	1439	1434	1431	1427	1424	1421	1419
10	1410	1420	1424	1424	1424	1422	1420	1417	1414	1411	1413	1420	1427	1421	1416	1410	1406	1402	1399
15	1387	1397	1401	1402	1402	1401	1400	1397	1394	1390	1388	1394	1404	1396	1389	1383	1377	1372	1369
20	1352	1362	1366	1369	1371	1371	1370	1367	1364	1359	1355	1358	1369	1360	1352	1344	1337	1331	1327
25	1303	1314	1320	1324	1328	1329	1329	1326	1322	1317	1311	1312	1323	1313	1303	1294	1285	1279	1274
30	1243	1254	1262	1268	1273	1275	1275	1272	1268	1263	1256	1254	1265	1254	1242	1232	1222	1215	1209
35	1170	1182	1192	1200	1207	1210	1210	1208	1203	1197	1189	1185	1196	1182	1169	1157	1146	1138	1131
40	1085	1098	1110	1119	1128	1132	1134	1132	1127	1120	1111	1104	1112	1097	1082	1068	1056	1046	1039
45	986	1000	1014	1026	1035	1041	1044	1043	1038	1029	1020	1010	1015	998	980	964	950	940	932
50	863	882	901	916	927	933	935	934	926	915	904	892	893	873	855	838	822	809	803
55	727	745	762	778	791	800	803	802	796	787	773	760	760	743	722	705	692	683	674
60	580	604	627	645	662	671	674	674	671	662	650	633	635	605	577	549	525	508	496
65	307	341	381	420	453	476	486	485	481	466	441	410	386	353	319	290	264	250	233
70	94.8	118	142	167	193	211	222	226	218	204	184	162	147	123	102	83.0	67.6	57.6	51.3
75	4.64	8.40	9.36	15.8	24.4	31.5	36.1	35.6	38.4	26.9	19.7	12.1	6.98	6.55	5.50	4.55	4.17	3.92	3.87
80	2.84	3.00	3.14	3.26	3.39	3.51	3.54	3.63	3.67	3.55	3.39	3.19	3.10	2.89	2.68	2.52	2.38	2.31	2.27
85	1.33	1.46	1.59	1.69	1.80	1.88	1.93	1.96	1.94	1.87	1.77	1.66	1.61	1.46	1.30	1.16	1.04	0.98	0.96
90	0.12	0.23	0.36	0.46	0.56	0.63	0.69	0.71	0.70	0.66	0.61	0.54	0.51	0.37	0.26	0.22	0.22	0.26	0.28
95	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.15	0.17	0.18	0.19	0.20	0.21	0.21
100	0.12	0.12	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.11	0.24	0.26	0.27	0.28	0.29	0.30	0.31
105	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.34	0.34	0.36	0.37	0.38	0.38	0.39
110	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.38	0.39	0.40	0.41	0.42	0.43	0.44
115	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.43	0.43	0.44	0.46	0.47	0.48	0.49
120	0.34	0.33	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.33	0.48	0.50	0.52	0.54	0.55	0.56	0.58
125	0.43	0.41	0.39	0.39	0.39	0.39	0.40	0.40	0.41	0.41	0.40	0.41	0.61	0.63	0.64	0.67	0.69	0.71	0.72
130	0.54	0.51	0.48	0.48	0.48	0.48	0.49	0.49	0.50	0.50	0.49	0.51	0.76	0.78	0.80	0.82	0.85	0.87	0.88
135	0.65	0.62	0.58	0.57	0.59	0.57	0.58	0.59	0.60	0.58	0.60	0.61	0.90	0.92	0.94	0.97	0.99	1.02	1.02
140	0.73	0.72	0.68	0.66	0.67	0.65	0.66	0.67	0.67	0.67	0.68	0.71	0.97	1.01	1.04	1.08	1.10	1.12	1.10
145	0.79	0.79	0.75	0.74	0.74	0.74	0.73	0.74	0.74	0.73	0.72	0.76	1.05	1.09	1.12	1.16	1.17	1.19	1.17
150	0.85	0.84	0.80	0.77	0.79	0.81	0.80	0.81	0.80	0.79	0.78	0.81	1.13	1.16	1.17	1.20	1.22	1.23	1.19
155	0.91	0.91	0.88	0.82	0.82	0.82	0.82	0.84	0.84	0.84	0.85	0.88	1.20	1.20	1.24	1.25	1.25	1.25	1.19
160	0.98	0.97	0.94	0.88	0.87	0.86	0.86	0.89	0.90	0.92	0.94	0.96	1.30	1.29	1.30	1.32	1.32	1.30	1.24
165	1.03	1.03	1.01	0.98	0.95	0.93	0.90	0.96	1.00	1.03	1.03	1.04	1.33	1.34	1.35	1.38	1.39	1.37	1.31
170	1.10	1.10	1.07	1.04	1.02	1.00	0.99	1.03	1.06	1.07	1.07	1.09	1.37	1.36	1.36	1.37	1.37	1.35	1.29
175	1.20	1.18	1.14	1.11	1.08	1.07	1.05	1.07	1.09	1.11	1.12	1.15	1.36	1.36	1.36	1.36	1.36	1.34	1.29
180	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.08	1.08	1.08	1.08	1.08	1.08	1.08

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:2.0043A P:240.36W PF:0.9993 Freq:60.01Hz Lamp Flux:36701.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-240D50-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	1430	1430	1430	1430	1430														
5	1417	1416	1415	1415	1415														
10	1397	1396	1395	1396	1398														
15	1366	1365	1365	1366	1369														
20	1324	1323	1324	1326	1330														
25	1271	1270	1271	1274	1280														
30	1205	1205	1206	1210	1217														
35	1128	1128	1130	1135	1144														
40	1037	1038	1041	1047	1057														
45	930	930	935	944	957														
50	798	798	805	816	832														
55	671	674	681	689	702														
60	491	496	506	520	540														
65	229	233	244	261	284														
70	44.9	48.2	56.2	67.5	82.9														
75	3.94	4.11	4.28	4.45	4.66														
80	2.30	2.37	2.46	2.57	2.71														
85	1.00	1.05	1.10	1.17	1.26														
90	0.27	0.28	0.29	0.26	0.22														
95	0.21	0.21	0.20	0.19	0.18														
100	0.31	0.31	0.30	0.29	0.27														
105	0.39	0.39	0.38	0.37	0.35														
110	0.44	0.44	0.43	0.42	0.40														
115	0.49	0.48	0.48	0.47	0.44														
120	0.57	0.56	0.55	0.53	0.50														
125	0.71	0.69	0.66	0.64	0.61														
130	0.87	0.84	0.79	0.77	0.74														
135	0.99	0.95	0.91	0.90	0.88														
140	1.06	1.02	1.02	1.00	0.95														
145	1.13	1.11	1.08	1.07	1.02														
150	1.16	1.14	1.14	1.12	1.07														
155	1.18	1.17	1.17	1.19	1.12														
160	1.21	1.22	1.24	1.24	1.16														
165	1.27	1.28	1.29	1.28	1.19														
170	1.27	1.26	1.26	1.26	1.19														
175	1.27	1.27	1.28	1.27	1.24														
180	1.08	1.08	1.08	1.08	1.08														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Alan Wang
 Test Date: 23 January 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.9%
 Test Distance: 2.500m [K=1.0459]
 Remarks: