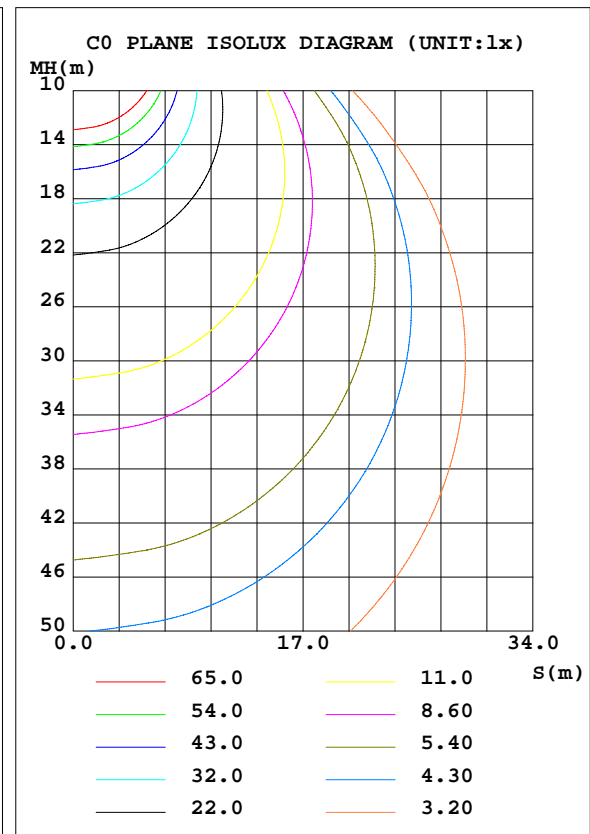
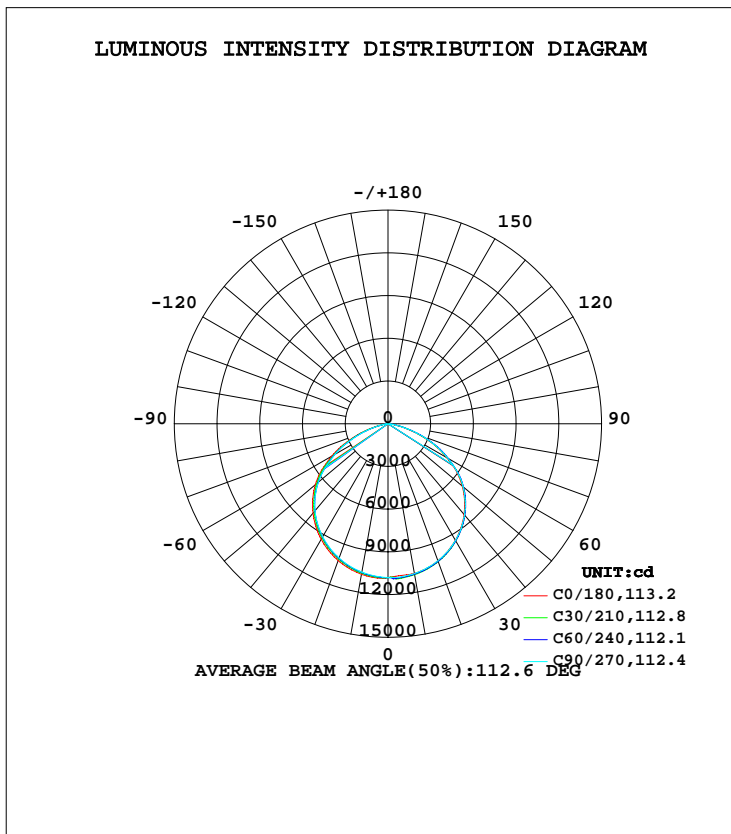


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.53 lm/W			
MODEL	ASD-UHB2-200D40-PRM	I _{max} (cd)	10920	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)	29400	η UP, DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	29400	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,48.8
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: 24.5DEG
 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: 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	1067	1075	1068	1060	1074	1064	1058	1057	0- 10	1024	1024	3.44,3.44
20	1025	1030	1024	1013	1023	1009	1004	1005	10- 20	2949	3973	13.4,13.4
30	945.8	951.5	946.9	934.1	937.9	922.8	917.1	921.4	20- 30	4511	8484	28.5,28.5
40	831.3	839.5	835.9	820.8	819.3	802.6	797.3	804.7	30- 40	5503	13987	47,47
50	680.6	691.3	689.3	672.6	666.0	645.2	637.3	652.1	40- 50	5753	19741	66.3,66.3
60	476.8	486.6	486.3	464.1	457.1	436.5	428.7	449.3	50- 60	5072	24813	83.4,83.4
70	246.8	259.0	258.5	236.6	225.7	210.3	204.9	225.2	60- 70	3437	28250	94.9,94.9
80	47.51	55.43	54.71	43.18	38.30	31.76	30.95	37.91	70- 80	1357	29606	99.5,99.5
90	0.5386	1.100	0.5311	0.5762	0.1681	0.1720	0.1693	0.1614	80- 90	121.9	29728	99.9,99.9
100	0.1313	0.1286	0.1291	0.1351	0.2939	0.2974	0.2965	0.2830	90-100	2.092	29730	99.9,99.9
110	0.1999	0.1892	0.1969	0.2073	0.3693	0.3746	0.3757	0.3608	100-110	2.643	29733	99.9,99.9
120	0.3177	0.2909	0.2948	0.3138	0.4660	0.4662	0.4684	0.4409	110-120	3.235	29736	99.9,99.9
130	0.4607	0.4254	0.4239	0.4473	0.6421	0.6678	0.6833	0.6128	120-130	4.091	29740	99.9,99.9
140	0.5813	0.5597	0.5702	0.5702	0.7837	0.8391	0.8103	0.7859	130-140	4.808	29745	100,100
150	0.6226	0.6115	0.6094	0.6257	0.8893	0.9208	0.8929	0.8847	140-150	4.527	29750	100,100
160	0.7445	0.6853	0.6349	0.7089	0.9801	0.9892	0.9306	0.9280	150-160	3.645	29753	100,100
170	0.8445	0.8198	0.7845	0.8197	1.004	1.021	0.9614	0.9329	160-170	2.442	29756	100,100
180	0.9708	0.9708	0.9708	0.9708	0.9206	0.9206	0.9206	0.9206	170-180	0.8705	29757	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 16885 lm

%lum = 56.7%

%lamp = 56.7%

Conical surface Flux(120deg): 24813 lm

%lum = 83.4%

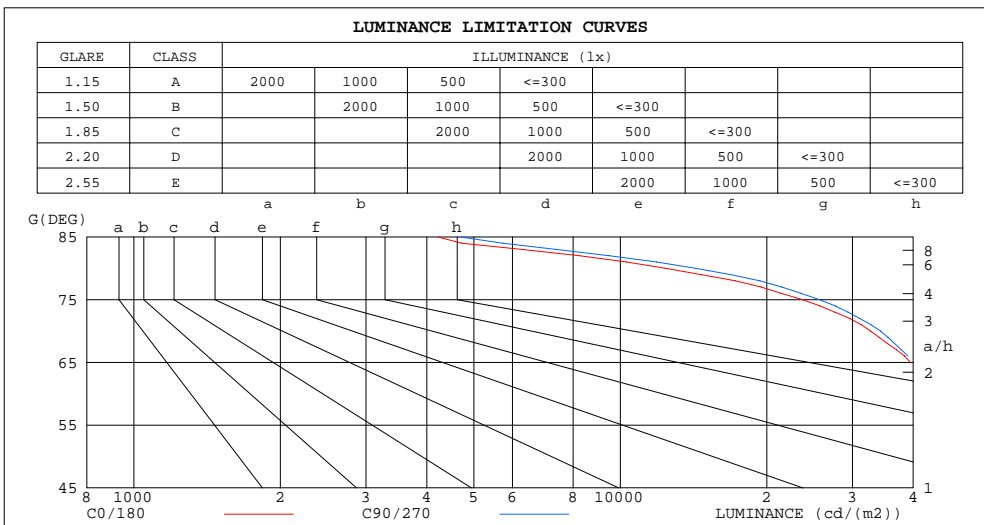
%lamp = 83.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4218	4690
80	12409	14287
75	23707	25679
70	32723	34278
65	39467	40190
60	43248	44104
55	46551	47171
50	48019	48633
45	48803	49197

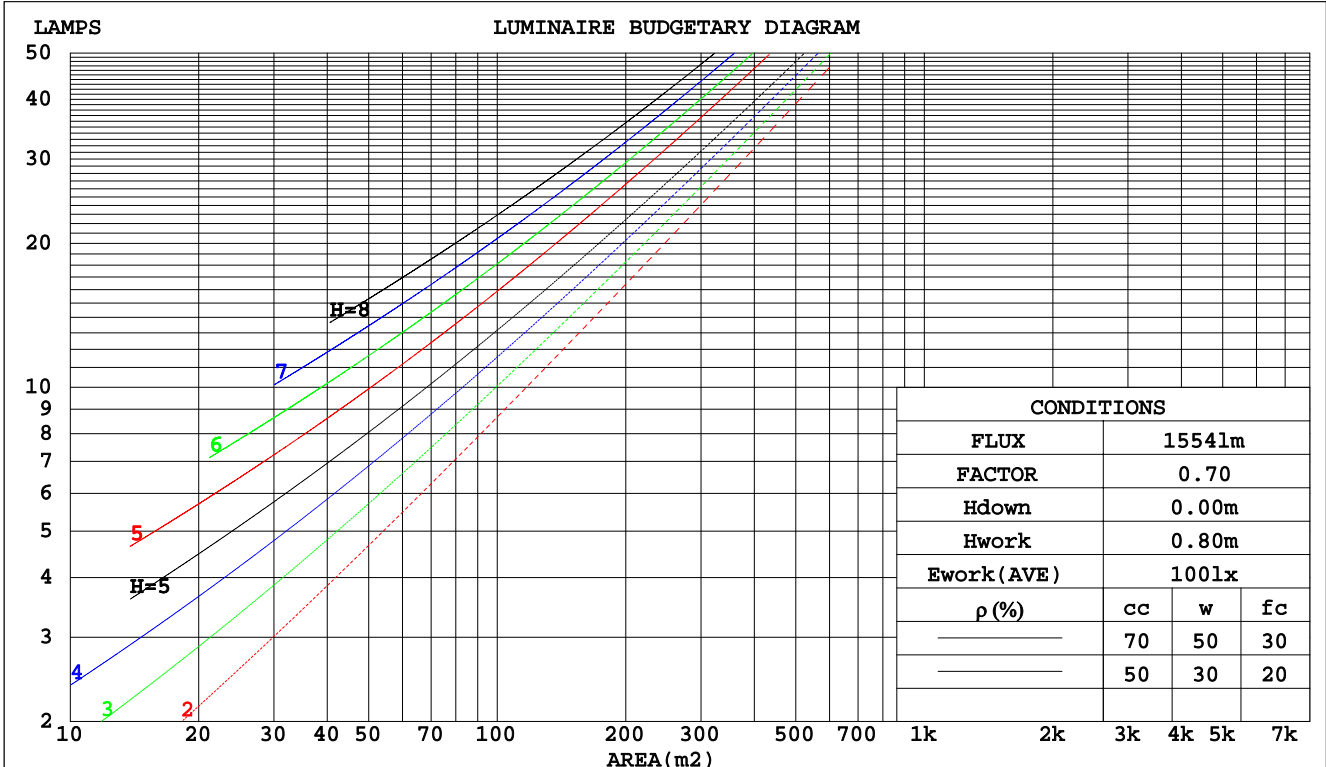
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-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	.00	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.92	.86	.81	.91	.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	.38	.49	.42	.37	.47	.42	.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: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-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	.244	.137	.043	.235	.133	.042	
3.0	.257	.137	.041	.251	.135	.041	.241	.131	.040	.232	.127	.039	.223	.123	.038	
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.217	.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	.182	.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	.021	.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	.139	.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	.122	.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: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2-200D40-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	25.8	27.4	26.2	27.7	28.0	25.7	27.3	26.1	27.6	27.9
3H	27.2	28.6	27.5	28.9	29.3	27.1	28.6	27.5	28.9	29.3
4H	27.5	28.9	27.9	29.2	29.6	27.5	28.9	27.9	29.2	29.6
6H	27.6	28.9	28.0	29.2	29.6	27.6	28.9	28.1	29.3	29.6
8H	27.6	28.8	28.0	29.2	29.6	27.6	28.8	28.1	29.2	29.6
12H	27.6	28.7	28.0	29.1	29.5	27.6	28.7	28.0	29.1	29.6
4H 2H	26.4	27.7	26.8	28.1	28.5	26.2	27.5	26.6	27.9	28.3
3H	27.9	29.0	28.3	29.4	29.8	27.8	28.9	28.2	29.3	29.7
4H	28.3	29.3	28.8	29.7	30.2	28.2	29.2	28.7	29.6	30.1
6H	28.5	29.4	28.9	29.8	30.3	28.4	29.3	28.9	29.7	30.2
8H	28.5	29.3	28.9	29.7	30.2	28.4	29.2	28.9	29.7	30.1
12H	28.5	29.2	28.9	29.7	30.1	28.4	29.1	28.9	29.6	30.1
8H 4H	28.5	29.3	28.9	29.7	30.2	28.3	29.1	28.8	29.6	30.1
6H	28.7	29.3	29.2	29.8	30.3	28.5	29.2	29.0	29.7	30.2
8H	28.7	29.2	29.2	29.8	30.2	28.5	29.1	29.0	29.6	30.1
12H	28.6	29.2	29.1	29.7	30.2	28.5	29.0	29.0	29.5	30.1
12H 4H	28.5	29.2	28.9	29.7	30.1	28.3	29.0	28.8	29.5	30.0
6H	28.6	29.2	29.2	29.7	30.3	28.5	29.1	29.0	29.6	30.1
8H	28.7	29.2	29.2	29.7	30.2	28.5	29.0	29.0	29.5	30.1
CIE190: 2010										

CIE190: 2010
Area: 0.220507 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
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: 47.6%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

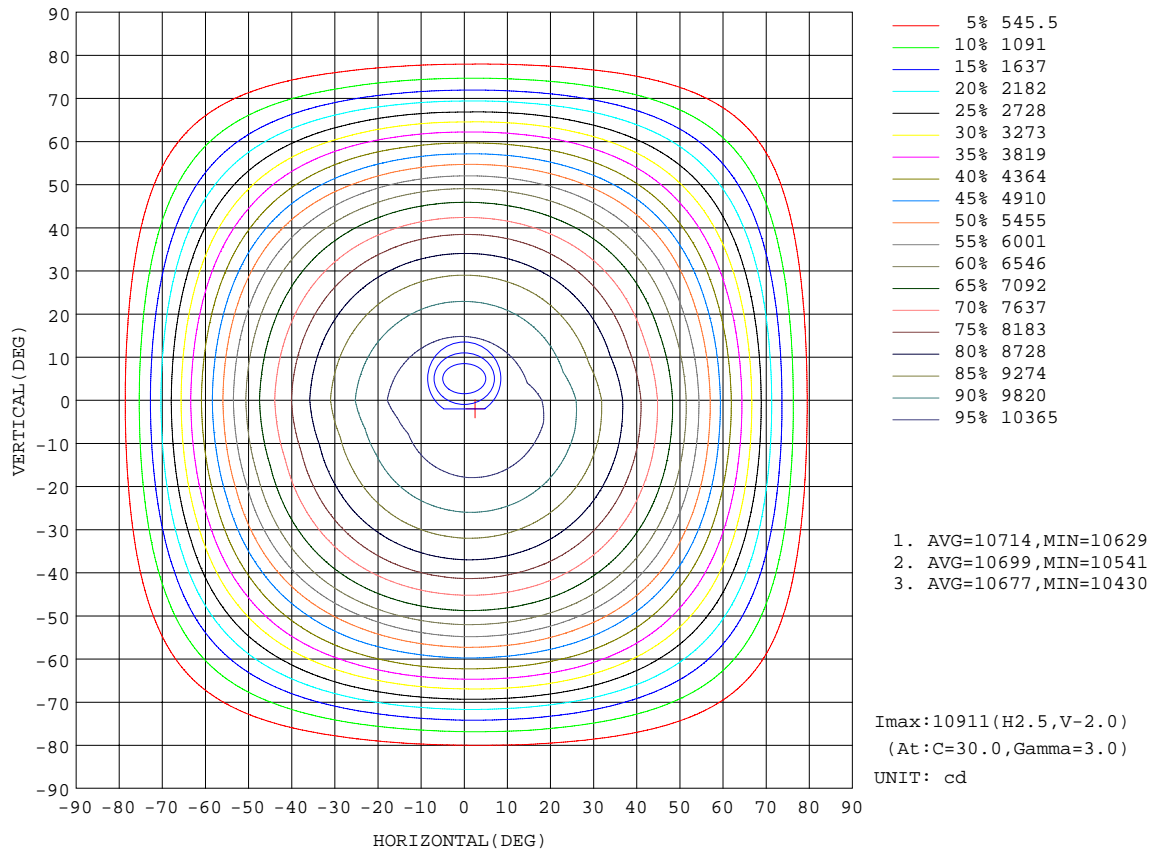
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	50	68	57	50	66	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: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

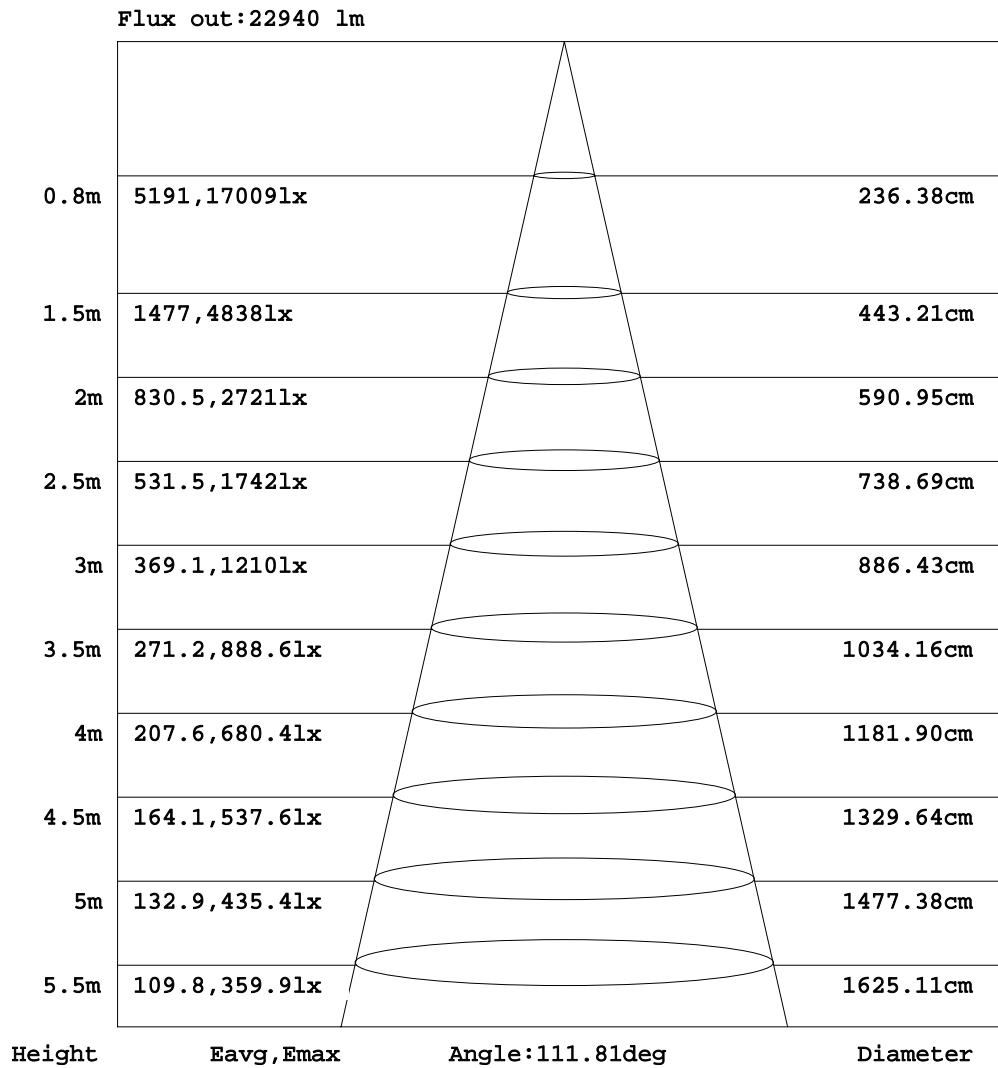


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Alan Wang
 Test Date: 27 January 2021

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

AAI Figure

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



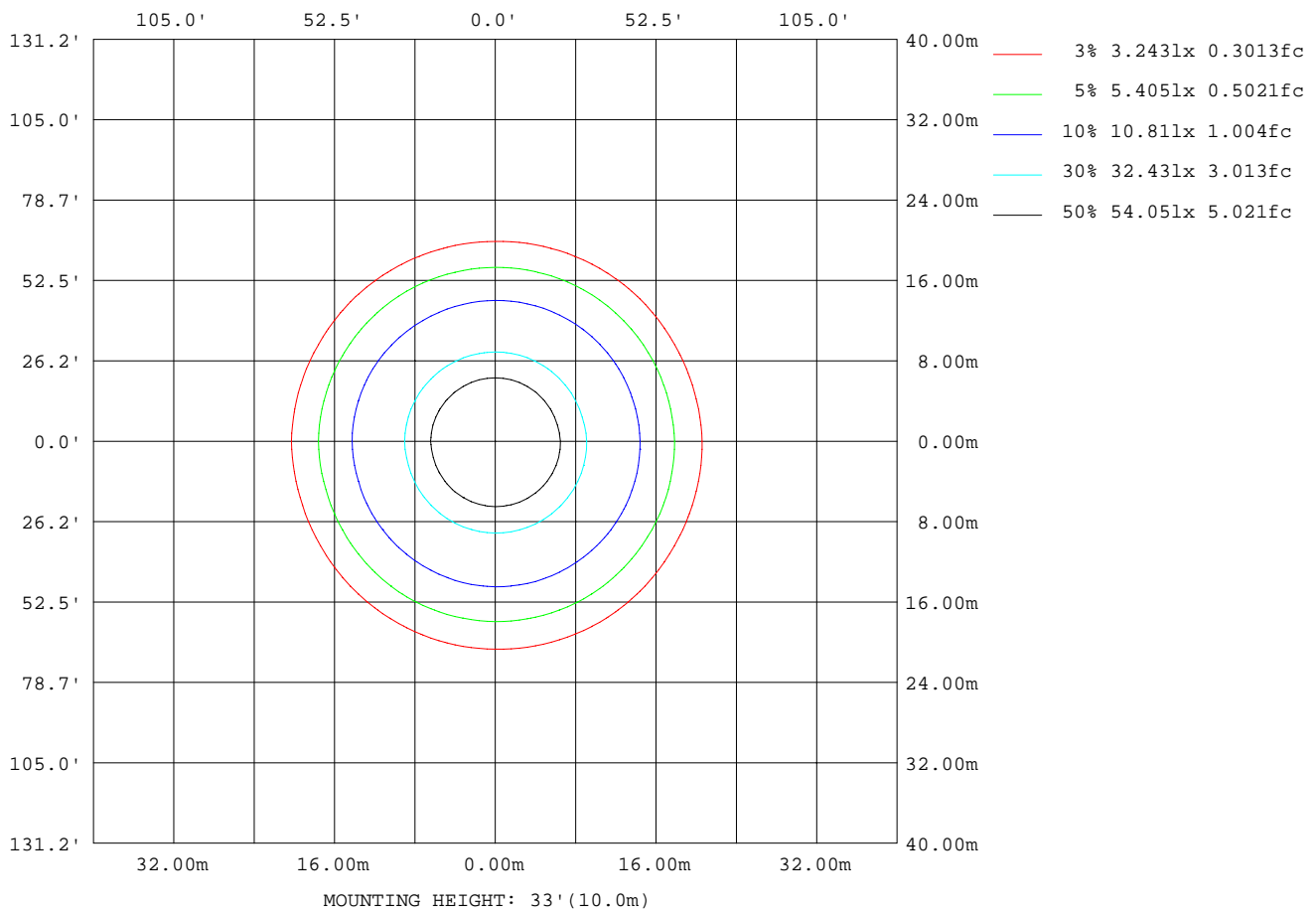
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

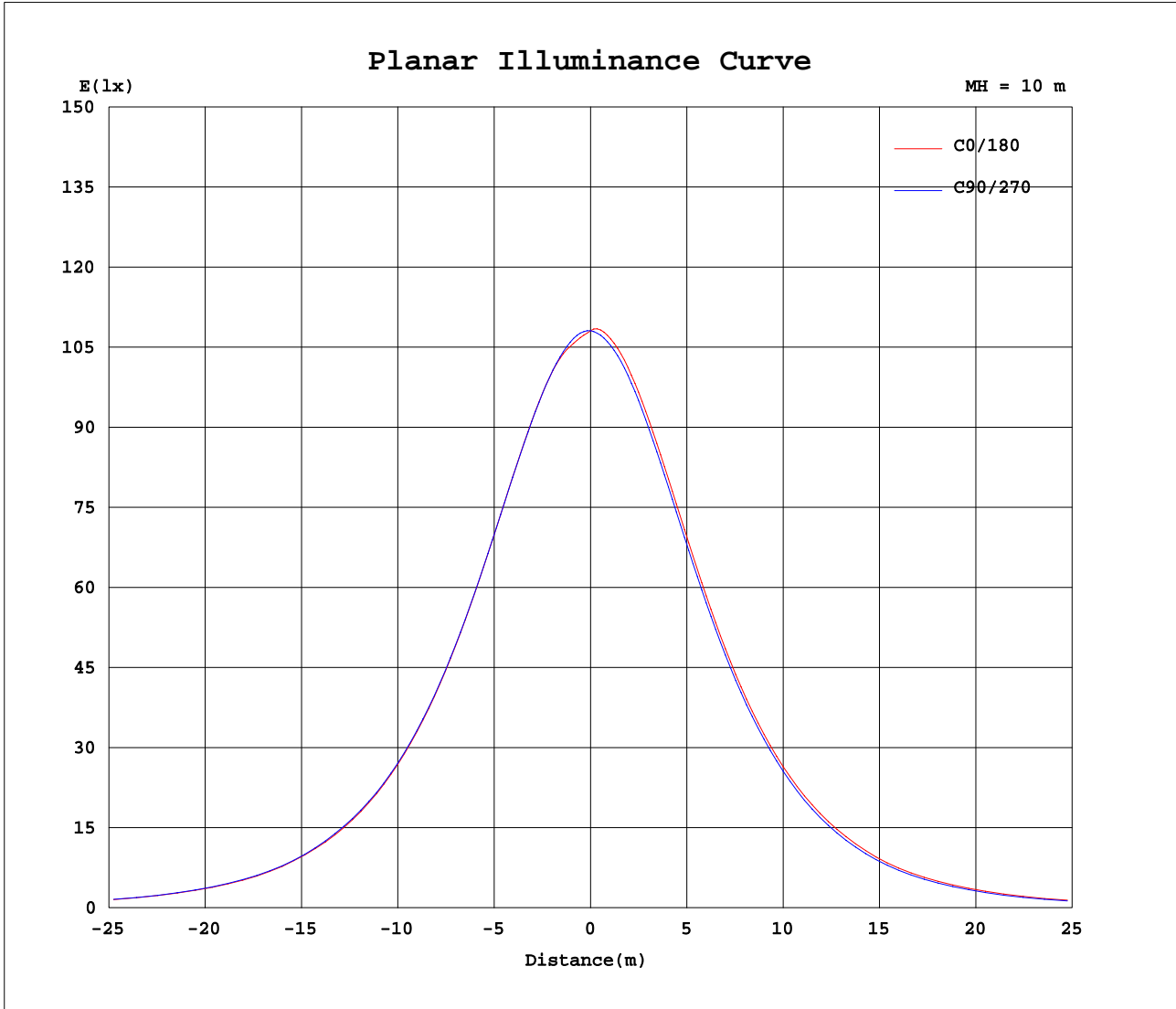
AvgL	cd/m2
L_0~180(65)av	38197
L_0~180(75)av	21993
L_0~180(85)av	3425
L_90~270(65)av	37002
L_90~270(75)av	21829
L_90~270(85)av	3253
L_45(65)av	37482
L_45(75)av	21789
L_45(85)av	3320

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
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: 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: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-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	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081
5	1070	1086	1089	1086	1084	1081	1079	1076	1073	1070	1072	1087	1085	1082	1080	1077	1075	1074	1073
10	1067	1078	1076	1075	1073	1071	1068	1065	1062	1060	1057	1067	1074	1070	1066	1064	1061	1059	1058
15	1051	1058	1058	1057	1055	1053	1050	1047	1044	1040	1037	1042	1052	1048	1044	1041	1038	1036	1035
20	1025	1031	1030	1030	1029	1027	1024	1021	1017	1013	1009	1011	1023	1018	1013	1009	1007	1005	1004
25	990	995	995	995	994	992	990	986	982	978	973	973	984	979	974	970	967	965	965
30	946	950	951	951	951	949	947	943	939	934	929	926	938	932	927	923	920	918	917
35	893	898	899	900	900	898	896	892	887	882	876	872	883	877	871	867	863	862	861
40	831	836	838	839	840	839	836	832	826	821	815	810	819	813	808	803	798	797	797
45	761	766	769	770	771	770	767	763	757	751	745	739	748	741	735	729	725	723	724
50	681	686	689	691	693	692	689	685	679	673	665	659	666	659	653	645	640	638	637
55	589	593	597	599	600	600	597	588	578	572	566	560	568	563	557	546	538	537	538
60	477	482	484	487	490	489	486	481	475	464	455	449	457	448	441	436	433	429	429
65	368	371	372	379	383	380	375	369	360	353	344	340	344	338	330	324	317	316	315
70	247	250	254	259	262	261	259	253	246	237	229	222	226	221	216	210	206	203	205
75	135	140	144	146	149	149	147	141	134	128	123	117	116	112	109	105	101	101	103
80	47.5	51.3	53.6	55.4	56.4	56.8	54.7	51.8	47.3	43.2	39.8	36.0	38.3	36.1	32.4	31.8	30.3	30.2	30.9
85	8.11	8.08	9.56	10.0	10.1	9.79	9.01	8.92	8.11	6.95	5.80	4.66	5.06	3.94	3.96	3.90	3.85	3.28	3.49
90	0.54	0.51	1.04	1.10	1.07	0.81	0.53	0.83	0.71	0.58	0.44	0.26	0.17	0.17	0.17	0.17	0.17	0.17	0.17
95	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.23	0.23	0.23	0.23	0.23	0.23	0.23
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	0.29	0.29	0.29	0.30	0.30	0.30	0.30
105	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.35	0.34	0.35	0.35	0.35	0.35	0.35
110	0.20	0.20	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.37	0.37	0.37	0.37	0.38	0.38	0.38
115	0.25	0.24	0.24	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26	0.40	0.40	0.40	0.41	0.41	0.41	0.41
120	0.32	0.31	0.30	0.29	0.29	0.29	0.29	0.30	0.31	0.31	0.32	0.32	0.47	0.47	0.46	0.47	0.46	0.46	0.47
125	0.39	0.38	0.36	0.36	0.36	0.35	0.35	0.36	0.37	0.38	0.39	0.39	0.54	0.54	0.55	0.55	0.55	0.56	0.56
130	0.46	0.45	0.44	0.43	0.44	0.43	0.42	0.43	0.44	0.45	0.46	0.47	0.64	0.65	0.67	0.67	0.68	0.68	0.68
135	0.53	0.53	0.51	0.49	0.50	0.52	0.51	0.51	0.51	0.51	0.52	0.53	0.72	0.74	0.75	0.78	0.78	0.77	0.75
140	0.58	0.59	0.57	0.56	0.56	0.58	0.57	0.56	0.56	0.57	0.57	0.57	0.78	0.81	0.81	0.84	0.85	0.83	0.81
145	0.60	0.61	0.59	0.58	0.60	0.60	0.59	0.60	0.60	0.60	0.59	0.59	0.84	0.84	0.85	0.88	0.89	0.89	0.88
150	0.62	0.63	0.63	0.61	0.61	0.62	0.61	0.62	0.62	0.63	0.61	0.61	0.89	0.89	0.90	0.92	0.92	0.91	0.89
155	0.68	0.69	0.68	0.65	0.63	0.65	0.63	0.65	0.65	0.66	0.67	0.66	0.92	0.92	0.95	0.95	0.94	0.93	0.91
160	0.74	0.74	0.73	0.69	0.66	0.66	0.63	0.68	0.69	0.71	0.72	0.71	0.98	0.97	0.97	0.99	0.99	0.96	0.93
165	0.79	0.80	0.79	0.77	0.73	0.72	0.71	0.74	0.77	0.79	0.78	0.77	0.99	0.99	1.00	1.02	1.03	1.02	0.97
170	0.84	0.85	0.85	0.82	0.78	0.78	0.78	0.79	0.82	0.82	0.82	0.82	1.00	1.00	1.01	1.02	1.02	1.01	0.96
175	0.95	0.94	0.92	0.87	0.84	0.83	0.82	0.82	0.84	0.86	0.87	0.89	1.01	1.01	1.00	1.02	1.02	1.00	0.96
180	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.92	0.92	0.92	0.92	0.92	0.92

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.23V I:1.6561A P:199.00W PF:0.9994 Freq:60.01Hz Lamp Flux:29400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-200D40-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	1081	1081	1081	1081	1081														
5	1072	1071	1070	1069	1069														
10	1058	1057	1057	1057	1058														
15	1035	1035	1035	1036	1037														
20	1004	1005	1005	1007	1009														
25	965	966	968	970	972														
30	918	919	921	924	928														
35	863	864	867	871	875														
40	799	801	805	809	813														
45	725	729	733	738	743														
50	640	646	652	659	665														
55	544	551	561	569	576														
60	434	442	449	457	466														
65	324	332	341	346	356														
70	210	217	225	233	240														
75	106	110	118	125	132														
80	32.9	35.8	37.9	43.1	46.4														
85	3.82	4.13	4.66	5.52	6.40														
90	0.17	0.16	0.16	0.17	0.19														
95	0.23	0.22	0.22	0.21	0.21														
100	0.29	0.29	0.28	0.28	0.27														
105	0.34	0.34	0.33	0.33	0.32														
110	0.37	0.37	0.36	0.35	0.34														
115	0.41	0.40	0.40	0.39	0.37														
120	0.46	0.45	0.44	0.44	0.43														
125	0.55	0.53	0.52	0.50	0.50														
130	0.66	0.64	0.61	0.62	0.61														
135	0.73	0.71	0.71	0.71	0.69														
140	0.78	0.79	0.79	0.78	0.76														
145	0.84	0.84	0.84	0.82	0.80														
150	0.88	0.87	0.88	0.88	0.83														
155	0.91	0.91	0.90	0.94	0.87														
160	0.92	0.92	0.93	0.96	0.90														
165	0.96	0.94	0.95	0.97	0.91														
170	0.94	0.94	0.93	0.97	0.90														
175	0.94	0.92	0.96	0.96	0.93														
180	0.92	0.92	0.92	0.92	0.92														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 47.6%
 Test Distance: 2.500m [K=1.0459]
 Remarks: