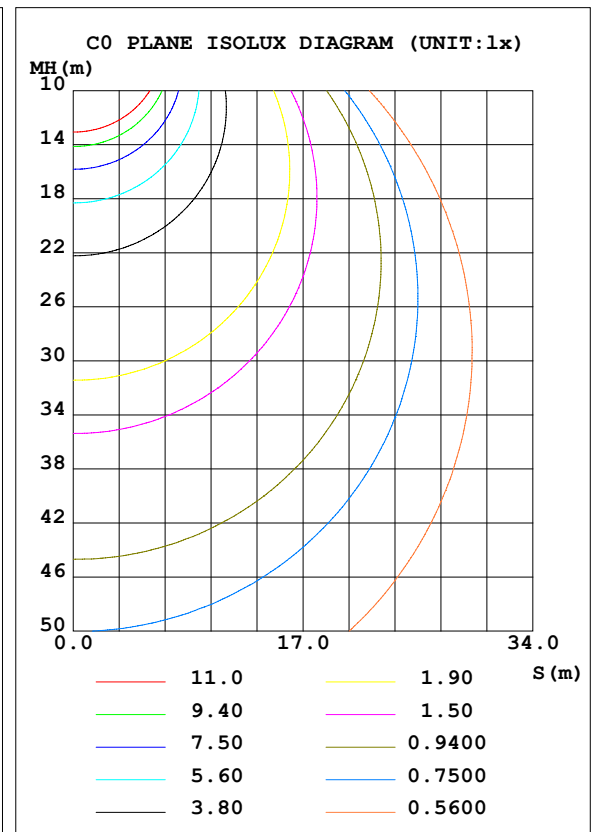
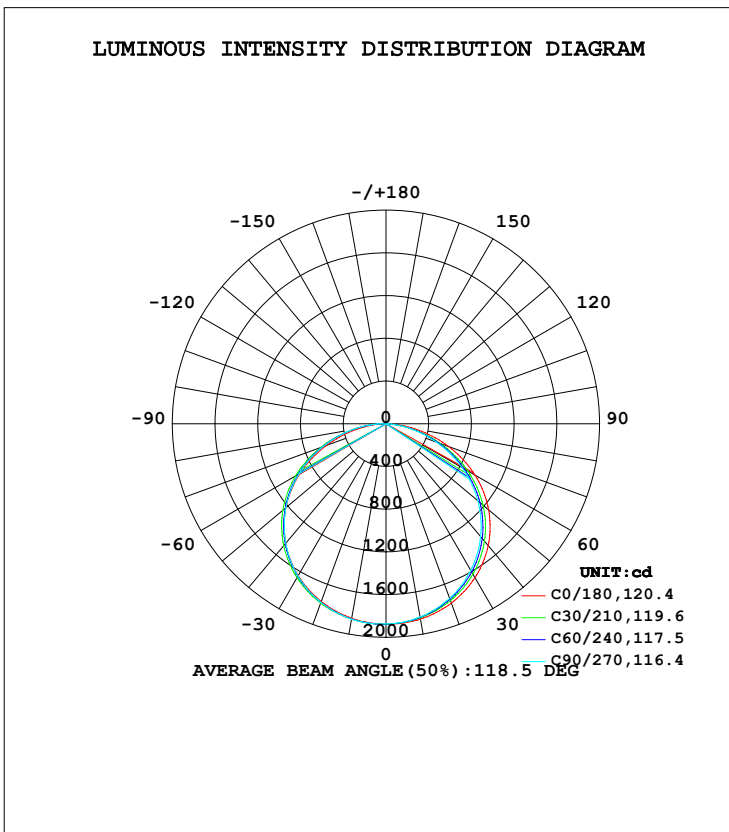


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.08 lm/W			
MODEL	ASD-BLP-24D40AC-EM-PRM	I _{max} (cd)	1878	S/MH (C0/180)	1.30
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	120-347	TOTAL FLUX (lm)	5750.2	η UP, DN (C0-180)	0.0, 47.5
NOMINAL FLUX (lm)	5750.21	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 52.4
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 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	1858	1843	1837	1835	1849	1857	1857	1860	0- 10	177.8	177.8	3.09,3.09
20	1788	1758	1740	1741	1771	1784	1779	1794	10- 20	512.9	690.7	12,12
30	1665	1616	1587	1595	1643	1659	1648	1672	20- 30	788.1	1479	25.7,25.7
40	1489	1419	1379	1392	1462	1479	1460	1496	30- 40	968.5	2447	42.6,42.6
50	1254	1168	1123	1139	1223	1246	1223	1265	40- 50	1028	3475	60.4,60.4
60	962.7	867.0	823.9	836.1	929.1	964.8	941.3	985.6	50- 60	951.2	4426	77,77
70	623.7	533.0	502.1	504.9	591.7	643.7	629.7	663.8	60- 70	744.3	5170	89.9,89.9
80	273.0	206.8	187.2	184.5	251.3	315.5	312.0	331.1	70- 80	443.3	5614	97.6,97.6
90	12.66	0.2531	0.2539	0.2606	0.4453	36.20	36.06	40.99	80- 90	130.3	5744	99.9,99.9
100	0.3326	0.3285	0.3428	0.3661	0.6261	0.5893	0.5795	0.5713	90-100	2.458	5746	99.9,99.9
110	0.4071	0.3550	0.4122	0.4683	0.6671	0.6621	0.6759	0.6701	100-110	0.5406	5747	99.9,99.9
120	0.5617	0.4539	0.5191	0.6172	0.7610	0.6555	0.6813	0.6802	110-120	0.5621	5748	100,100
130	0.7226	0.6149	0.6759	0.7648	0.9503	0.9195	0.9059	0.8525	120-130	0.6204	5748	100,100
140	0.8145	0.7107	0.7543	0.8042	0.9968	1.062	1.125	0.9935	130-140	0.6698	5749	100,100
150	0.8470	0.7368	0.6601	0.7926	1.062	1.033	1.062	1.043	140-150	0.5635	5749	100,100
160	1.008	0.9072	0.6926	0.9710	1.200	1.090	0.9755	1.012	150-160	0.4289	5750	100,100
170	1.184	1.143	0.9955	1.162	1.265	1.339	1.187	1.115	160-170	0.3039	5750	100,100
180	1.238	1.270	1.221	1.202	1.239	1.280	1.274	1.163	170-180	0.1163	5750	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2962 lm

%lum = 51.5%

%lamp = 51.5%

Conical surface Flux(120deg): 4426.1 lm

%lum = 77.0%

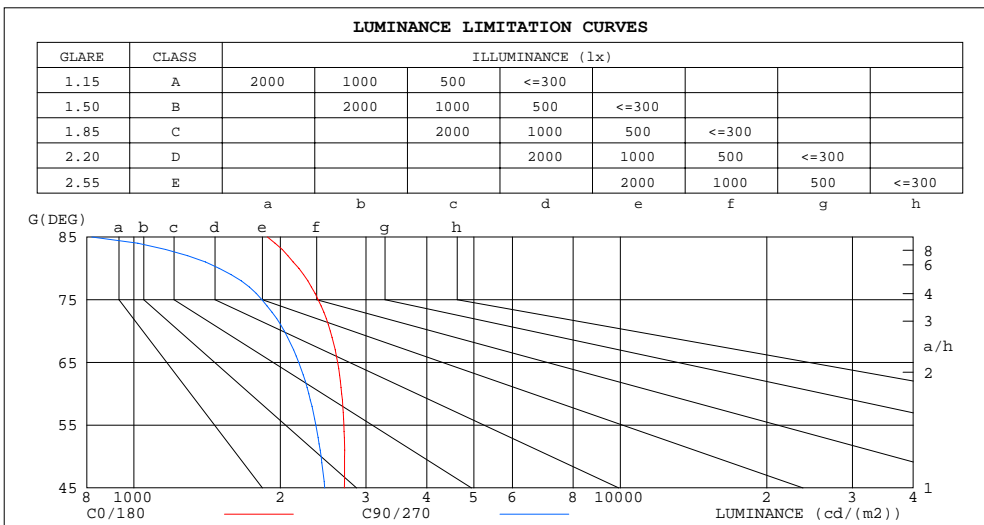
%lamp = 77.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1881	819
80	2183	1497
75	2392	1834
70	2533	2039
65	2623	2182
60	2674	2289
55	2702	2367
50	2710	2426
45	2708	2467

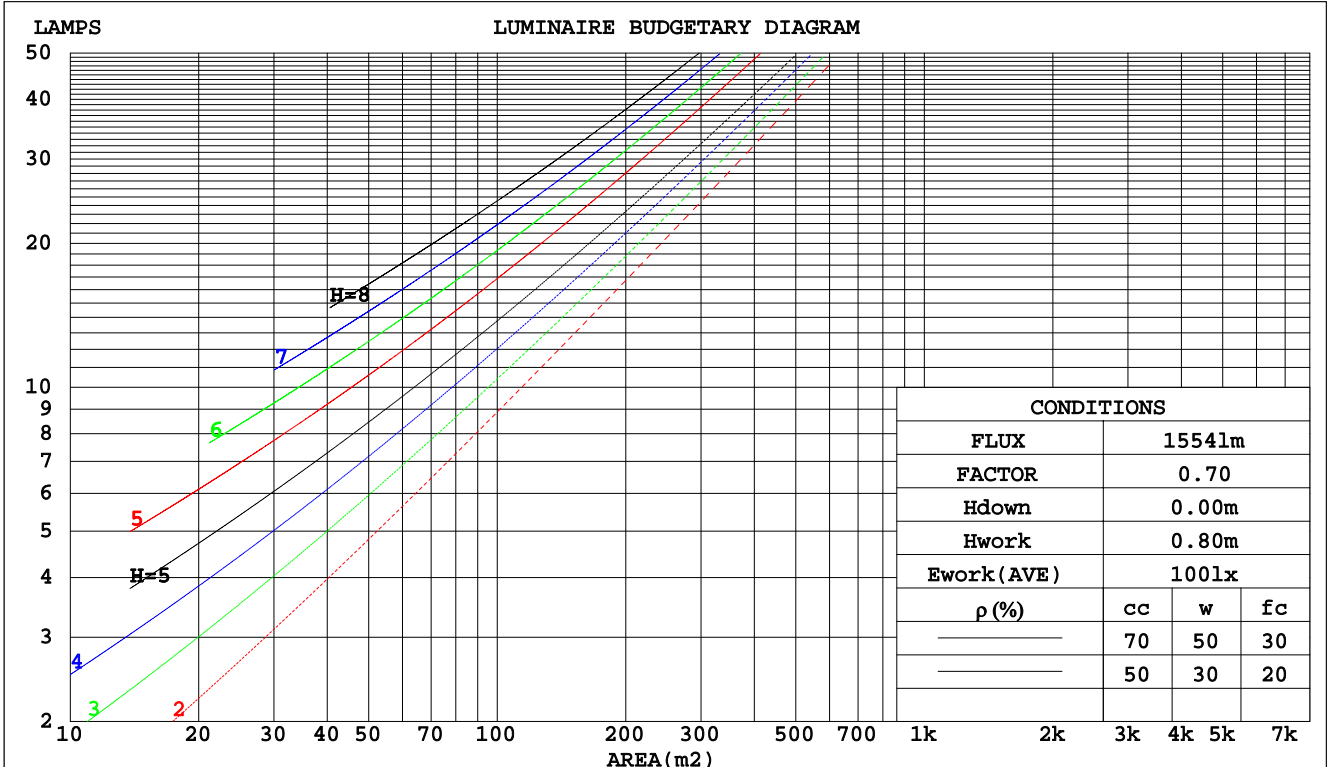
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	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	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.57	.51	.61	.55	.51	.48
5.0	.62	.52	.46	.61	.52	.45	.58	.51	.45	.56	.50	.44	.54	.49	.44	.42
6.0	.55	.46	.40	.54	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	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	.320	.182	.058	.313	.179	.057	.300	.172	.055	.287	.166	.053	.276	.160	.052	
2.0	.300	.164	.050	.293	.162	.050	.281	.156	.049	.270	.152	.047	.260	.147	.046	
3.0	.276	.147	.044	.271	.145	.044	.260	.141	.043	.250	.137	.042	.241	.134	.041	
4.0	.254	.132	.039	.249	.130	.039	.240	.127	.038	.231	.124	.037	.223	.121	.037	
5.0	.234	.119	.035	.230	.118	.034	.222	.115	.034	.214	.113	.034	.207	.111	.033	
6.0	.217	.109	.031	.213	.108	.031	.206	.105	.031	.199	.103	.030	.192	.101	.030	
7.0	.202	.100	.028	.198	.099	.028	.192	.097	.028	.185	.095	.028	.180	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.174	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.154	.076	.022	.149	.075	.022	

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	.020	.020	.020	
1.0	.182	.157	.134	.156	.135	.116	.106	.093	.080	.061	.054	.047	.020	.017	.015	
2.0	.174	.133	.098	.149	.114	.085	.102	.079	.059	.059	.046	.035	.019	.015	.011	
3.0	.167	.115	.074	.143	.099	.064	.098	.069	.045	.057	.040	.027	.018	.013	.009	
4.0	.159	.102	.058	.136	.088	.051	.094	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.151	.092	.047	.130	.079	.041	.090	.055	.029	.052	.033	.017	.017	.011	.006	
6.0	.144	.083	.040	.124	.072	.034	.086	.050	.024	.050	.030	.014	.016	.010	.005	
7.0	.137	.076	.034	.118	.066	.029	.082	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.131	.071	.029	.113	.061	.026	.078	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.125	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.119	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.2lx1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K					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	15.4	17.1	15.8	17.4	17.7	14.9	16.5	15.2	16.9	17.2
3H	17.3	18.8	17.6	19.1	19.5	16.6	18.1	17.0	18.5	18.8
4H	18.0	19.4	18.4	19.8	20.1	17.2	18.7	17.6	19.0	19.4
6H	18.5	19.8	18.9	20.2	20.6	17.7	19.0	18.1	19.3	19.7
8H	18.7	19.9	19.1	20.3	20.7	17.8	19.0	18.2	19.4	19.8
12H	18.8	20.0	19.2	20.4	20.8	17.8	19.0	18.2	19.4	19.8
4H 2H	16.0	17.4	16.4	17.8	18.2	15.5	17.0	15.9	17.3	17.7
3H	18.1	19.3	18.5	19.7	20.1	17.5	18.7	17.9	19.1	19.5
4H	18.9	20.0	19.3	20.4	20.8	18.2	19.3	18.6	19.7	20.2
6H	19.5	20.4	19.9	20.9	21.3	18.7	19.7	19.2	20.1	20.6
8H	19.7	20.6	20.1	21.0	21.5	18.9	19.7	19.3	20.2	20.7
12H	19.8	20.6	20.3	21.1	21.6	18.9	19.7	19.4	20.2	20.7
8H 4H	19.1	20.0	19.6	20.5	20.9	18.5	19.4	19.0	19.8	20.3
6H	19.8	20.6	20.3	21.1	21.6	19.1	19.8	19.6	20.3	20.8
8H	20.1	20.7	20.6	21.3	21.7	19.3	19.9	19.8	20.5	20.9
12H	20.3	20.8	20.8	21.3	21.9	19.4	20.0	19.9	20.4	21.0
12H 4H	19.2	20.0	19.6	20.4	20.9	18.5	19.3	19.0	19.8	20.3
6H	19.9	20.6	20.4	21.0	21.6	19.1	19.8	19.7	20.3	20.8
8H	20.2	20.8	20.7	21.2	21.8	19.3	19.9	19.9	20.4	21.0
CIE190: 2010										

CIE190: 2010
Area: 0.72 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Alan Wang
Test Date: 21 December 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.8%
Test Distance: 2.500m [K=1.0459]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

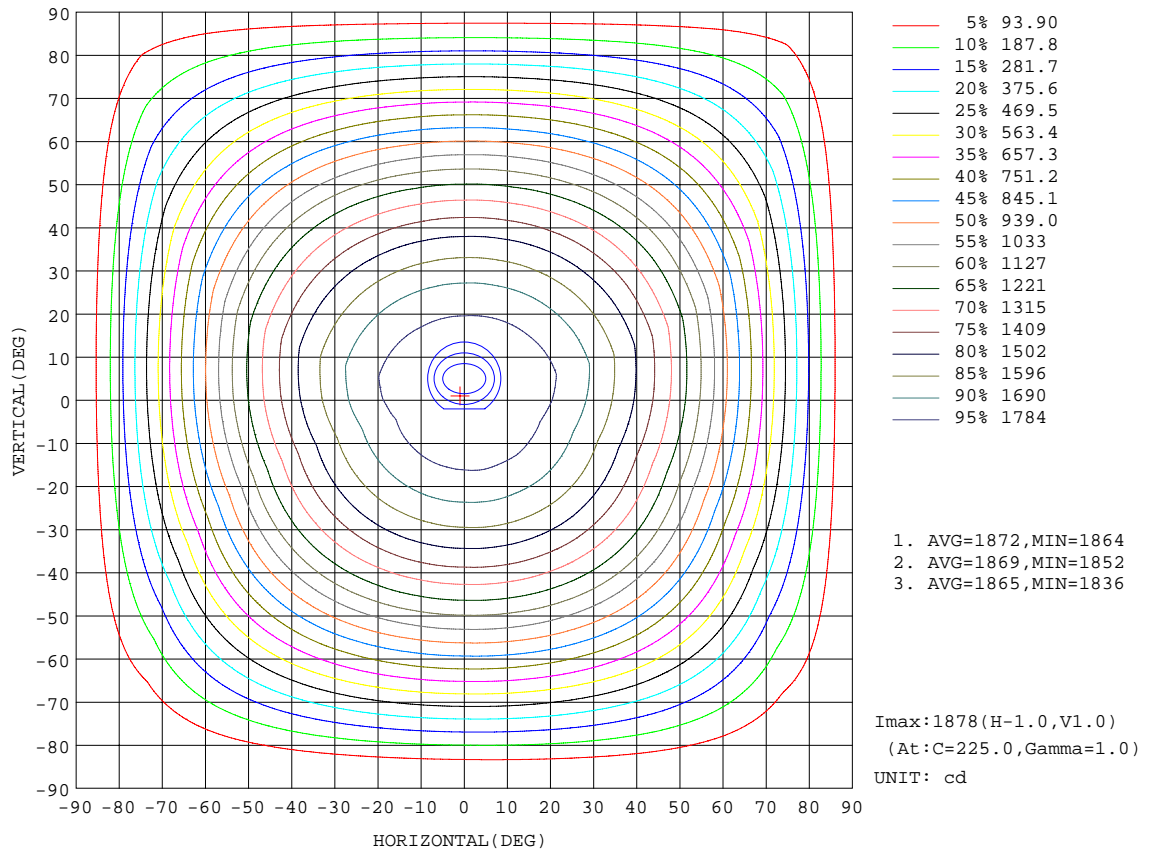
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	37	56	44	37	54	44	37	31
0.80	66	54	47	65	54	47	64	53	46	39
1.00	75	63	56	74	63	56	71	64	55	48
1.25	82	71	64	81	70	63	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	98	94	85
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: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.2lx1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



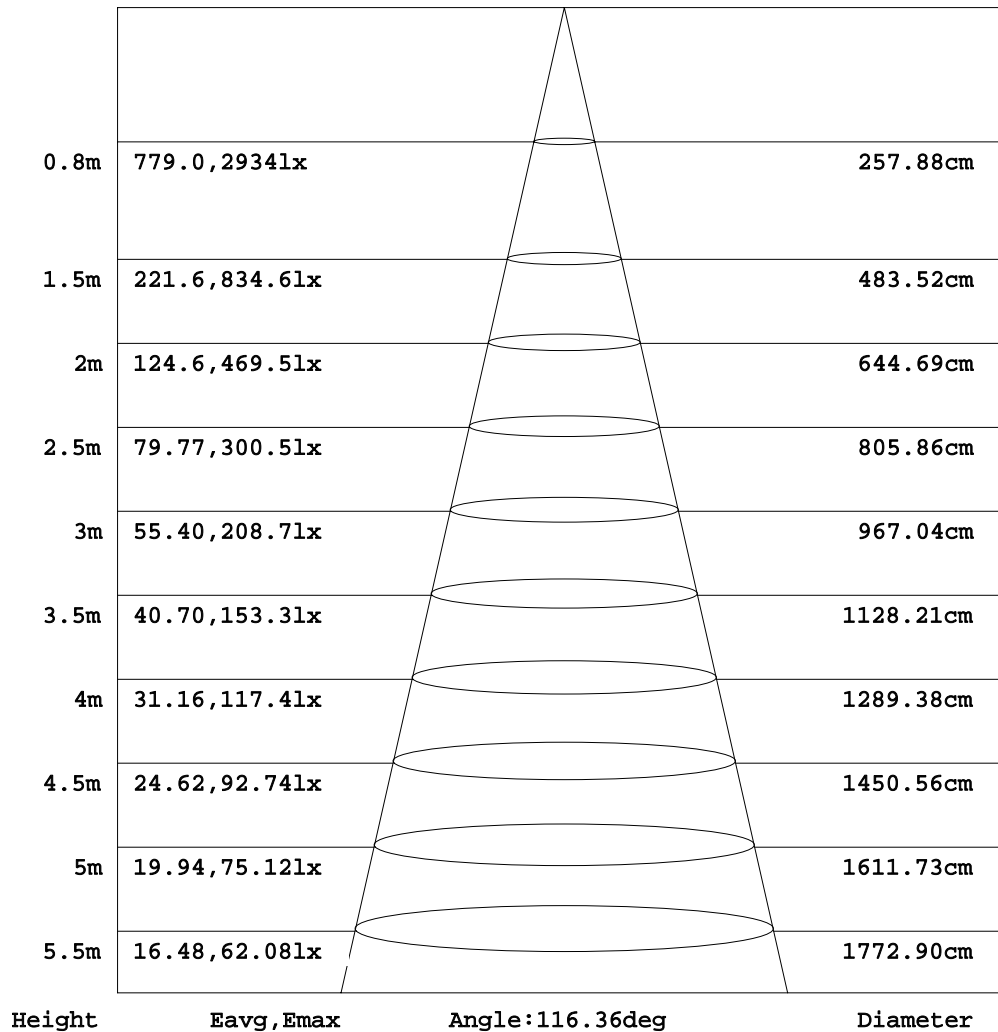
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:4338 lm



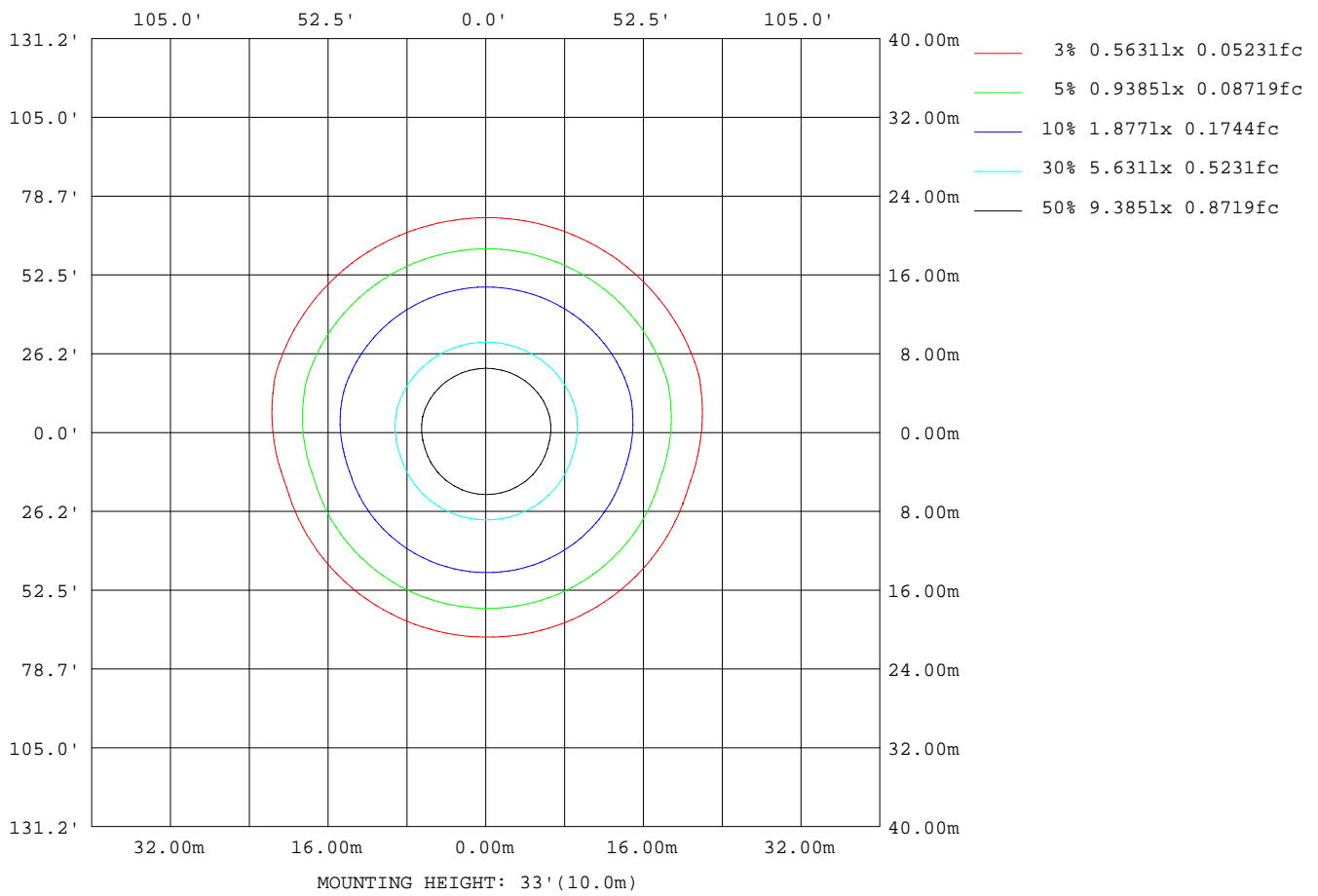
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.2lx1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

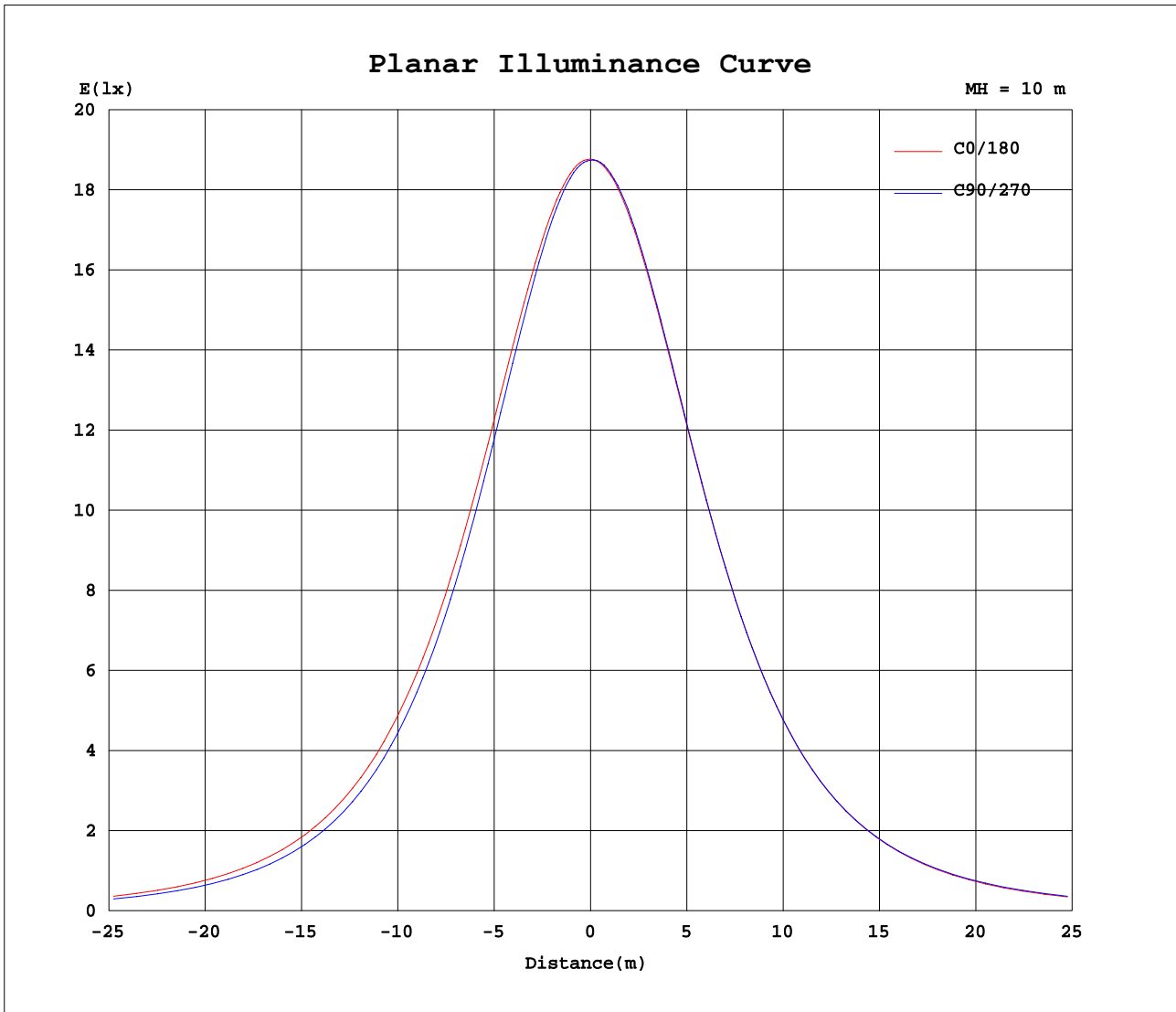
AvgL	cd/m2
L_0~180 (65) av	2566
L_0~180 (75) av	2317
L_0~180 (85) av	1753
L_90~270 (65) av	2386
L_90~270 (75) av	2177
L_90~270 (85) av	1689
L_45 (65) av	2473
L_45 (75) av	2253
L_45 (85) av	1789

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Alan Wang
Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.8%
Test Distance: 2.500m [K=1.0459]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1877	1876	1877	1877	1877	1878	1874	1875	1875	1874	1876	1874	1877	1876	1877	1877	1877	1878	1874
5	1873	1869	1867	1868	1866	1866	1864	1863	1862	1861	1862	1862	1869	1873	1874	1873	1873	1875	1873
10	1858	1847	1846	1843	1841	1839	1837	1837	1836	1835	1837	1834	1849	1856	1858	1857	1856	1856	1857
15	1828	1812	1811	1807	1802	1800	1796	1794	1795	1795	1797	1798	1817	1830	1828	1827	1825	1825	1826
20	1788	1765	1763	1758	1749	1745	1740	1739	1739	1741	1745	1746	1771	1790	1787	1784	1781	1780	1779
25	1733	1707	1702	1693	1682	1677	1671	1669	1670	1675	1679	1683	1713	1737	1733	1728	1723	1720	1722
30	1665	1633	1626	1616	1605	1595	1587	1585	1589	1595	1600	1607	1643	1669	1665	1659	1651	1647	1648
35	1584	1546	1537	1524	1510	1497	1489	1488	1493	1500	1508	1515	1559	1591	1585	1577	1566	1560	1562
40	1489	1446	1434	1419	1401	1388	1379	1378	1383	1392	1402	1412	1462	1499	1489	1479	1468	1461	1460
45	1378	1328	1317	1301	1282	1267	1256	1256	1261	1272	1284	1292	1349	1391	1382	1369	1357	1348	1347
50	1254	1199	1186	1168	1148	1133	1123	1121	1127	1139	1150	1160	1223	1271	1261	1246	1232	1223	1223
55	1116	1054	1042	1023	1003	989	977	977	981	993	1005	1013	1083	1137	1126	1112	1097	1089	1088
60	963	896	885	867	849	835	824	822	827	836	847	855	929	989	978	965	951	941	941
65	798	727	717	702	686	674	664	662	665	672	680	688	764	829	819	807	795	788	788
70	624	552	544	533	520	511	502	500	501	505	510	514	592	660	653	644	635	628	630
75	446	375	372	365	356	349	342	339	339	341	342	344	418	486	483	478	472	469	470
80	273	209	208	207	201	194	187	185	184	184	185	184	251	317	317	315	313	311	312
85	118	67.3	66.8	64.5	60.5	56.2	51.4	48.7	47.0	46.6	47.4	48.8	102	160	163	164	162	160	161
90	12.7	0.32	0.25	0.25	0.27	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.45	35.8	36.5	36.2	35.8	35.6	36.1
95	0.28	0.30	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.54	0.50	0.50	0.50	0.50	0.49	0.49
100	0.33	0.34	0.33	0.33	0.34	0.34	0.34	0.35	0.36	0.37	0.36	0.36	0.63	0.58	0.59	0.59	0.59	0.58	0.58
105	0.37	0.36	0.35	0.35	0.37	0.37	0.37	0.39	0.41	0.41	0.41	0.40	0.68	0.65	0.65	0.65	0.66	0.65	0.65
110	0.41	0.39	0.37	0.36	0.37	0.40	0.41	0.43	0.46	0.47	0.46	0.45	0.67	0.66	0.65	0.66	0.67	0.67	0.68
115	0.47	0.44	0.42	0.39	0.40	0.44	0.47	0.49	0.52	0.53	0.53	0.52	0.67	0.63	0.64	0.64	0.65	0.66	0.67
120	0.56	0.52	0.49	0.45	0.46	0.49	0.52	0.55	0.60	0.62	0.62	0.60	0.76	0.67	0.67	0.66	0.65	0.66	0.68
125	0.65	0.60	0.54	0.53	0.54	0.55	0.58	0.62	0.67	0.71	0.69	0.68	0.88	0.80	0.78	0.77	0.73	0.72	0.74
130	0.72	0.69	0.63	0.61	0.62	0.65	0.68	0.71	0.76	0.76	0.75	0.75	0.95	0.91	0.91	0.92	0.91	0.89	0.91
135	0.79	0.76	0.71	0.69	0.69	0.72	0.75	0.76	0.81	0.81	0.79	0.79	0.99	0.99	1.00	1.04	1.04	1.06	1.07
140	0.81	0.80	0.76	0.71	0.70	0.74	0.75	0.77	0.81	0.80	0.80	0.80	1.00	0.99	1.01	1.06	1.10	1.12	1.12
145	0.82	0.83	0.77	0.72	0.68	0.71	0.70	0.72	0.77	0.79	0.79	0.81	1.01	0.98	0.99	1.03	1.07	1.10	1.10
150	0.85	0.87	0.81	0.74	0.67	0.69	0.66	0.69	0.77	0.79	0.80	0.83	1.06	1.01	1.00	1.03	1.02	1.05	1.06
155	0.90	0.94	0.88	0.77	0.69	0.71	0.65	0.71	0.80	0.83	0.88	0.92	1.10	1.07	1.04	1.05	1.03	1.01	0.99
160	1.01	1.02	0.97	0.91	0.76	0.76	0.69	0.78	0.90	0.97	1.01	1.04	1.20	1.16	1.12	1.09	1.06	1.03	0.98
165	1.10	1.15	1.10	1.04	0.90	0.88	0.84	0.91	1.04	1.10	1.16	1.17	1.23	1.22	1.22	1.19	1.18	1.10	1.05
170	1.18	1.21	1.18	1.14	1.00	1.00	1.00	1.00	1.12	1.16	1.17	1.19	1.27	1.27	1.32	1.34	1.33	1.26	1.19
175	1.24	1.29	1.27	1.26	1.17	1.19	1.14	1.11	1.20	1.18	1.19	1.22	1.27	1.28	1.33	1.35	1.37	1.36	1.29
180	1.24	1.27	1.27	1.27	1.31	1.28	1.22	1.23	1.15	1.20	1.18	1.21	1.24	1.24	1.28	1.28	1.28	1.31	1.27

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.20V I:0.3370A P:40.188W PF:0.9940 Freq:60.01Hz Lamp Flux:5750.21x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1875	1875	1874	1876	1874														
5	1875	1877	1875	1876	1875														
10	1858	1862	1860	1865	1865														
15	1829	1831	1833	1838	1839														
20	1784	1789	1794	1801	1804														
25	1724	1732	1740	1748	1755														
30	1652	1661	1672	1685	1692														
35	1567	1576	1591	1606	1615														
40	1467	1481	1496	1513	1526														
45	1356	1370	1389	1408	1422														
50	1230	1247	1265	1287	1304														
55	1095	1112	1132	1154	1169														
60	949	965	986	1007	1023														
65	796	810	828	848	863														
70	635	648	664	680	693														
75	474	484	496	508	518														
80	315	322	331	339	343														
85	163	168	174	178	180														
90	37.0	38.9	41.0	44.0	46.6														
95	0.49	0.48	0.48	0.48	0.48														
100	0.58	0.58	0.57	0.57	0.57														
105	0.65	0.65	0.65	0.64	0.64														
110	0.68	0.67	0.67	0.67	0.66														
115	0.67	0.67	0.67	0.66	0.64														
120	0.68	0.68	0.68	0.68	0.68														
125	0.73	0.73	0.75	0.76	0.78														
130	0.87	0.86	0.85	0.85	0.88														
135	1.02	0.97	0.92	0.93	0.94														
140	1.07	1.02	0.99	0.97	0.96														
145	1.06	1.05	1.01	1.00	0.98														
150	1.04	1.03	1.04	1.03	1.02														
155	0.99	1.00	1.03	1.06	1.07														
160	0.97	0.99	1.01	1.11	1.13														
165	1.00	1.02	1.06	1.13	1.18														
170	1.13	1.10	1.11	1.19	1.23														
175	1.25	1.24	1.17	1.23	1.25														
180	1.24	1.22	1.16	1.21	1.19														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 21 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0459]
 Remarks: