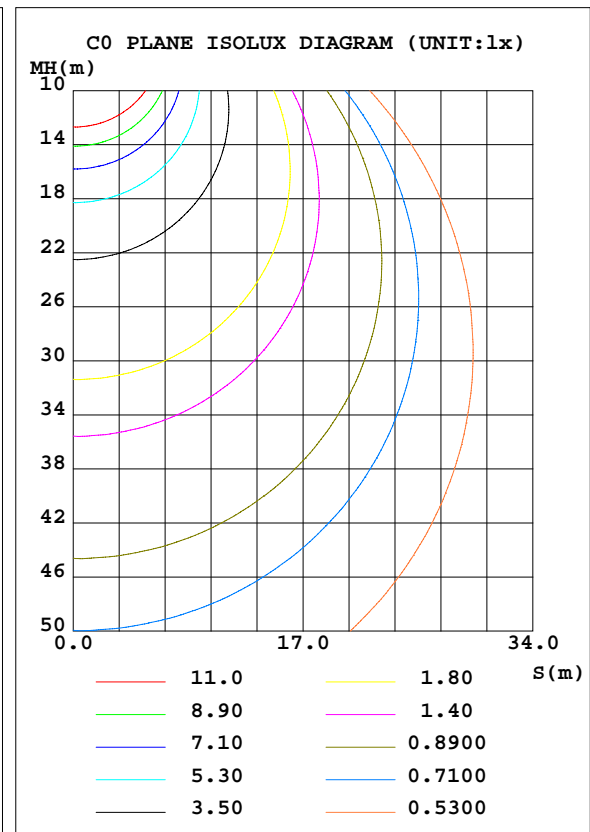
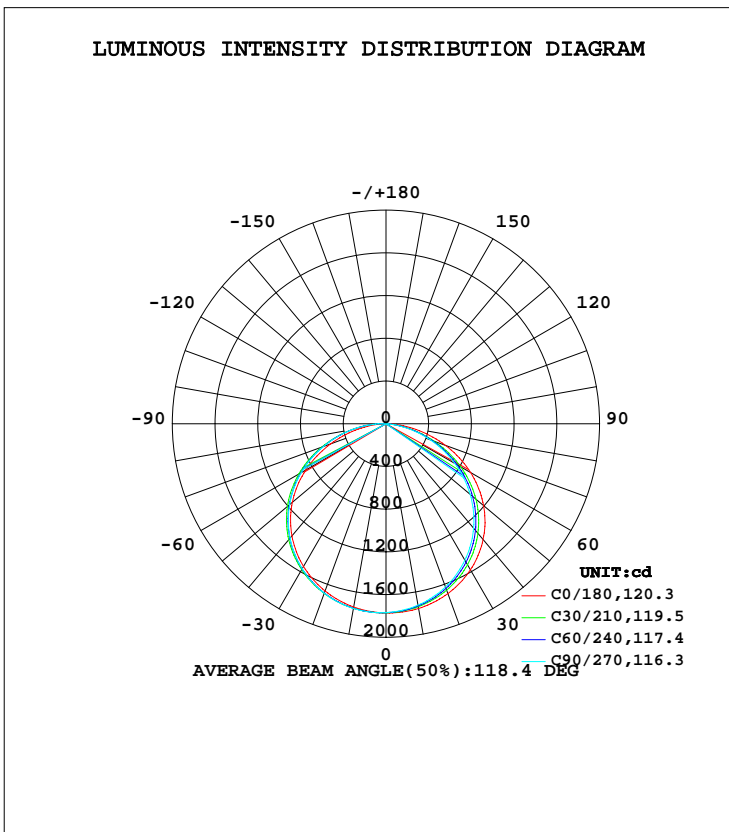


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.79 lm/W			
MODEL	ASD-BLP-24D40AC-EM-PRM	I <sub>max</sub> (cd)	1774	S/MH(C0/180)	1.30
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120-347	TOTAL FLUX(lm)	5200	η UP, DN(C0-180)	0.0,45.8
NOMINAL FLUX(lm)	5200	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,54.0
LAMPS INSIDE	120	η up(%)	0.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	99.8	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1756	1736	1724	1712	1743	1755	1756	1762	0- 10	167.5	167.5	3.09,3.09
20	1694	1651	1627	1612	1667	1689	1690	1712	10- 20	483.2	650.7	12,12
30	1580	1513	1477	1461	1544	1574	1569	1609	20- 30	742.3	1393	25.7,25.7
40	1414	1322	1277	1260	1370	1409	1398	1456	30- 40	912.0	2305	42.5,42.5
50	1194	1080	1029	1010	1145	1194	1178	1250	40- 50	967.2	3272	60.3,60.3
60	915.8	790.3	745.1	719.7	868.1	931.6	916.3	992.3	50- 60	894.8	4167	76.8,76.8
70	592.6	471.8	440.9	407.7	552.3	633.5	623.2	693.9	60- 70	700.0	4867	89.7,89.7
80	257.8	166.4	147.5	115.1	234.4	324.4	323.1	377.1	70- 80	417.6	5285	97.4,97.4
90	11.21	0.2446	0.2469	0.2652	0.4190	50.06	50.20	83.00	80- 90	129.6	5414	99.8,99.8
100	0.3107	0.3114	0.3273	0.3614	0.5908	0.5395	0.5274	0.4994	90-100	5.532	5420	99.9,99.9
110	0.3813	0.3347	0.3949	0.4650	0.6295	0.6266	0.6369	0.6281	100-110	0.5061	5420	99.9,99.9
120	0.5280	0.4417	0.5015	0.6223	0.7169	0.6104	0.6362	0.6265	110-120	0.5360	5421	100,100
130	0.6790	0.5929	0.6533	0.7389	0.8961	0.8386	0.8160	0.7591	120-130	0.5816	5421	100,100
140	0.7659	0.6695	0.6977	0.7483	0.9451	1.004	1.055	0.9120	130-140	0.6259	5422	100,100
150	0.8008	0.6991	0.6225	0.7604	1.006	0.9736	1.022	0.9709	140-150	0.5317	5422	100,100
160	0.9588	0.8916	0.6830	0.9850	1.138	1.022	0.9143	0.9568	150-160	0.4094	5423	100,100
170	1.121	1.113	0.9792	1.132	1.199	1.254	1.098	1.034	160-170	0.2892	5423	100,100
180	1.170	1.225	1.182	1.191	1.171	1.238	1.213	1.093	170-180	0.1102	5423	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2789.5 lm

%lum = 51.4%

%lamp = 51.4%

Conical surface Flux(120deg): 4167 lm

%lum = 76.8%

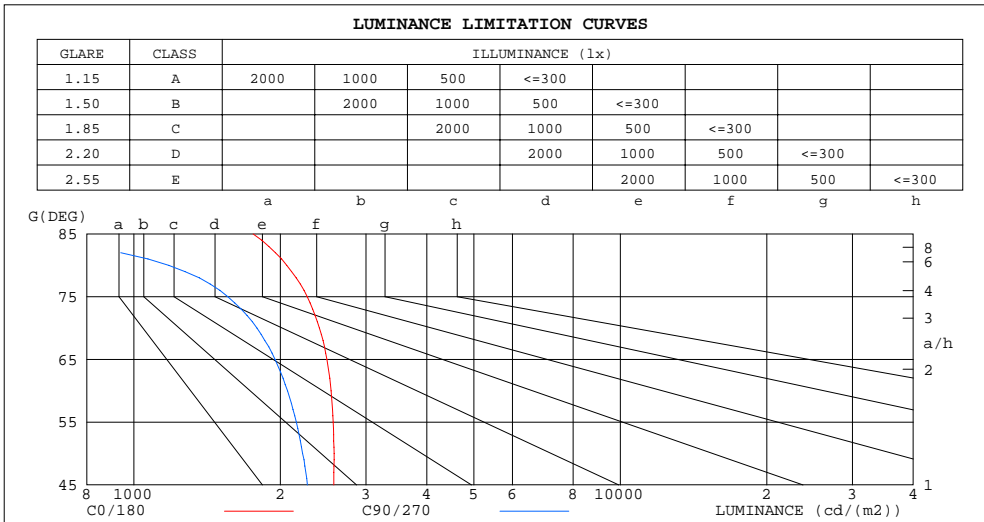
%lamp = 76.8%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: Alan Wang  
 Test Date: 21 December 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1759	381
80	2062	1179
75	2271	1560
70	2406	1790
65	2494	1951
60	2544	2070
55	2568	2157
50	2579	2223
45	2576	2274

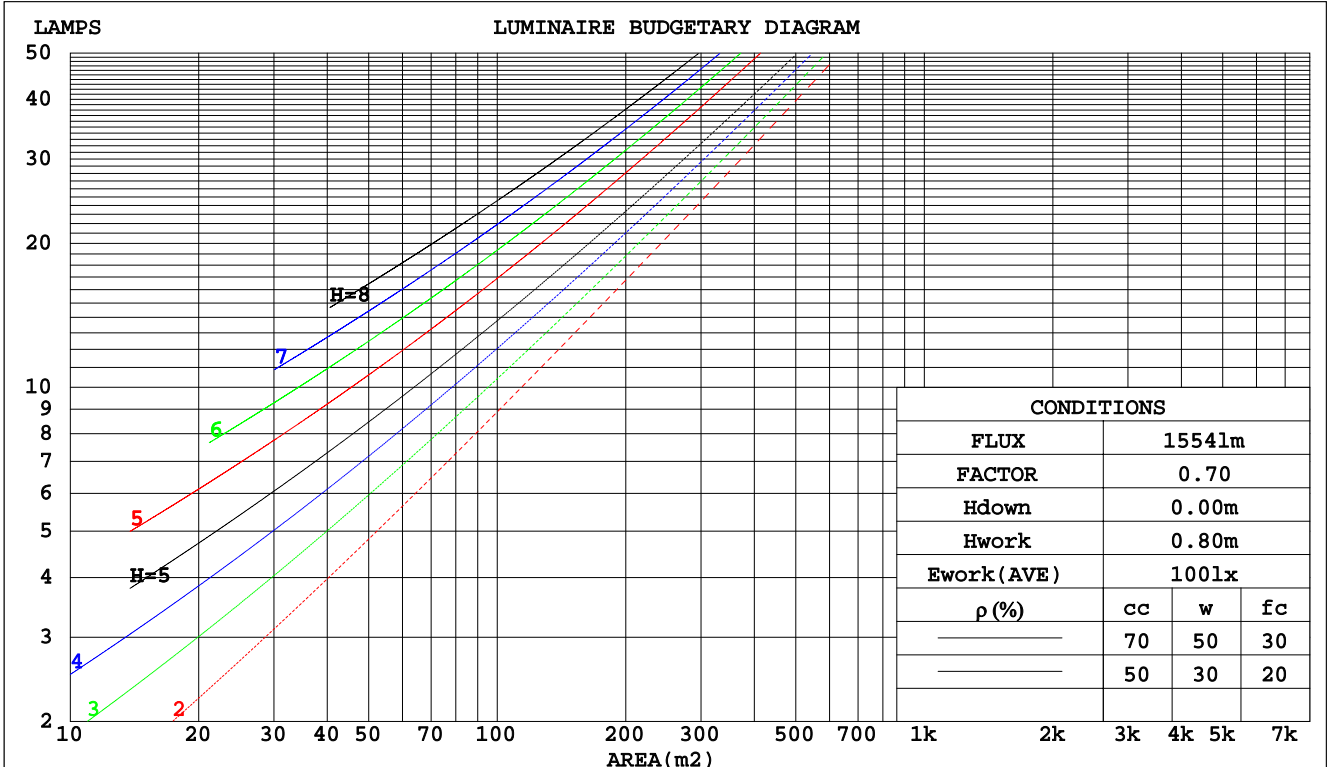
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: Alan Wang  
 Test Date: 21 December 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	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	.87	.89	.87	.85	.83
2.0	.90	.82	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.56	.51	.61	.55	.51	.48
5.0	.62	.52	.46	.60	.52	.45	.58	.51	.45	.56	.50	.44	.54	.49	.44	.42
6.0	.55	.46	.40	.54	.46	.39	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.34	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.35	.31	.41	.35	.30	.28
9.0	.42	.33	.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	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

WEC AND CCEC

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	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	.321	.183	.058	.314	.179	.057	.301	.172	.055	.288	.166	.053	.277	.161	.052	
2.0	.300	.164	.050	.294	.162	.050	.282	.157	.049	.271	.152	.048	.261	.148	.047	
3.0	.276	.147	.044	.271	.145	.044	.260	.141	.043	.251	.137	.042	.242	.134	.041	
4.0	.254	.132	.039	.249	.130	.039	.240	.127	.038	.231	.124	.037	.223	.121	.037	
5.0	.235	.119	.035	.230	.118	.034	.222	.116	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.182	.157	.135	.156	.135	.116	.107	.093	.080	.061	.054	.047	.020	.017	.015	
2.0	.175	.133	.098	.150	.115	.085	.103	.079	.059	.059	.046	.035	.019	.015	.011	
3.0	.167	.116	.075	.143	.100	.065	.098	.069	.045	.057	.040	.027	.018	.013	.009	
4.0	.159	.102	.059	.137	.088	.051	.094	.062	.036	.054	.036	.021	.018	.012	.007	
5.0	.152	.092	.048	.131	.080	.042	.090	.056	.029	.052	.033	.017	.017	.011	.006	
6.0	.145	.084	.040	.124	.073	.035	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.138	.077	.034	.119	.067	.030	.082	.047	.021	.048	.028	.013	.015	.009	.004	
8.0	.131	.071	.030	.113	.062	.026	.078	.043	.018	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.026	.108	.057	.023	.075	.040	.016	.044	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.042	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K					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	15.0	16.7	15.4	17.0	17.3	14.4	16.0	14.8	16.4	16.7
3H	16.8	18.3	17.2	18.7	19.0	16.1	17.6	16.4	17.9	18.3
4H	17.5	18.9	17.9	19.3	19.7	16.6	18.0	17.0	18.4	18.8
6H	18.0	19.3	18.4	19.7	20.1	17.0	18.3	17.4	18.6	19.0
8H	18.2	19.4	18.6	19.8	20.2	17.0	18.3	17.4	18.7	19.1
12H	18.3	19.5	18.7	19.9	20.3	17.0	18.2	17.4	18.6	19.0
4H 2H	15.6	17.0	16.0	17.3	17.7	14.9	16.4	15.3	16.7	17.1
3H	17.6	18.8	18.0	19.2	19.6	16.8	18.0	17.2	18.4	18.8
4H	18.3	19.4	18.8	19.9	20.3	17.5	18.6	17.9	19.0	19.4
6H	18.9	19.9	19.4	20.3	20.8	17.9	18.9	18.4	19.3	19.8
8H	19.1	20.0	19.5	20.4	20.9	18.0	18.9	18.5	19.4	19.8
12H	19.2	20.0	19.7	20.5	21.0	18.0	18.8	18.5	19.3	19.8
8H 4H	18.6	19.5	19.0	19.9	20.4	17.7	18.6	18.2	19.0	19.5
6H	19.2	20.0	19.7	20.4	20.9	18.2	19.0	18.7	19.4	19.9
8H	19.4	20.1	19.9	20.6	21.1	18.3	19.0	18.8	19.5	20.0
12H	19.6	20.1	20.1	20.6	21.2	18.4	19.0	18.9	19.4	20.0
12H 4H	18.6	19.4	19.1	19.9	20.4	17.7	18.5	18.2	19.0	19.5
6H	19.2	19.9	19.8	20.4	20.9	18.2	18.9	18.7	19.4	19.9
8H	19.5	20.1	20.0	20.6	21.1	18.3	18.9	18.9	19.4	20.0
CIE190: 2010										

CIE190: 2010  
Area: 0.72 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.2DEG  
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: 48.0%  
Test Distance: 2.500m [K=1.0459]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

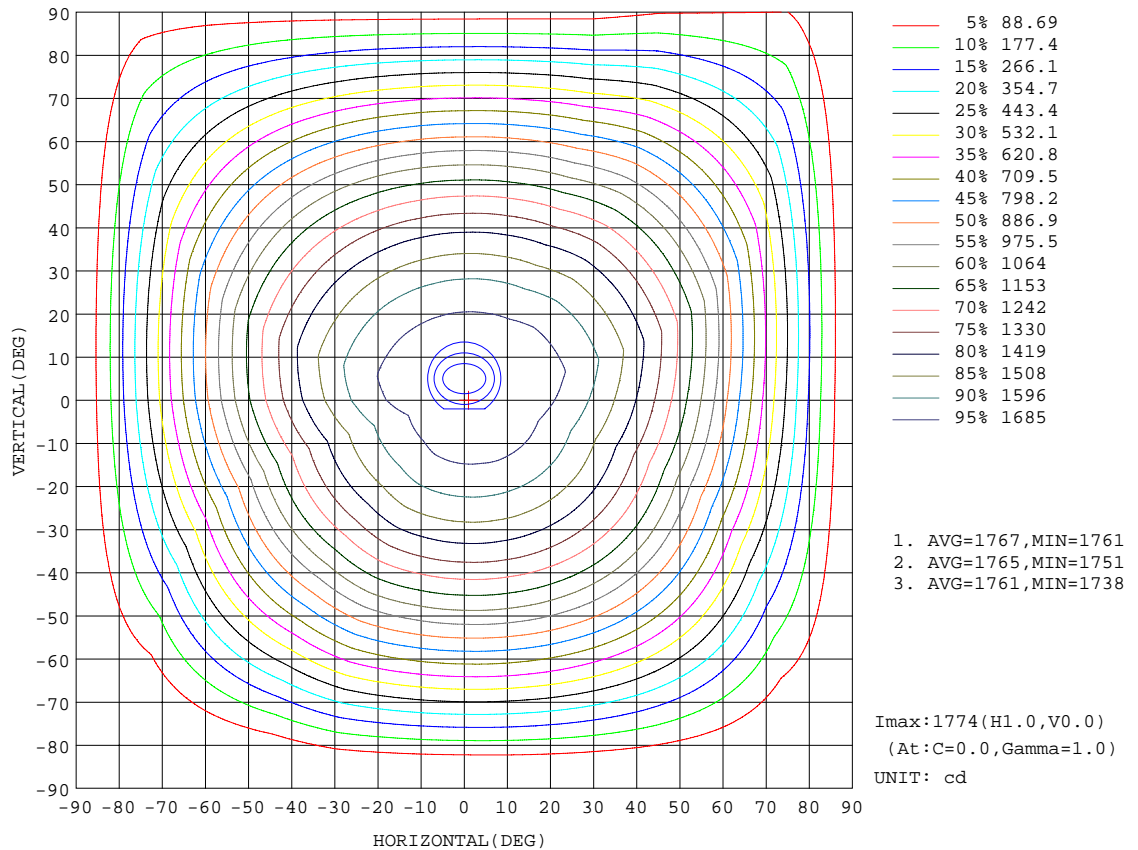
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	56	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	74	63	56	71	64	55	48
1.25	82	71	64	80	70	63	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	78	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	93	99	95	91	82
5.00	108	103	99	106	101	97	101	97	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: 25.2DEG  
 Operators: Alan Wang  
 Test Date: 21 December 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



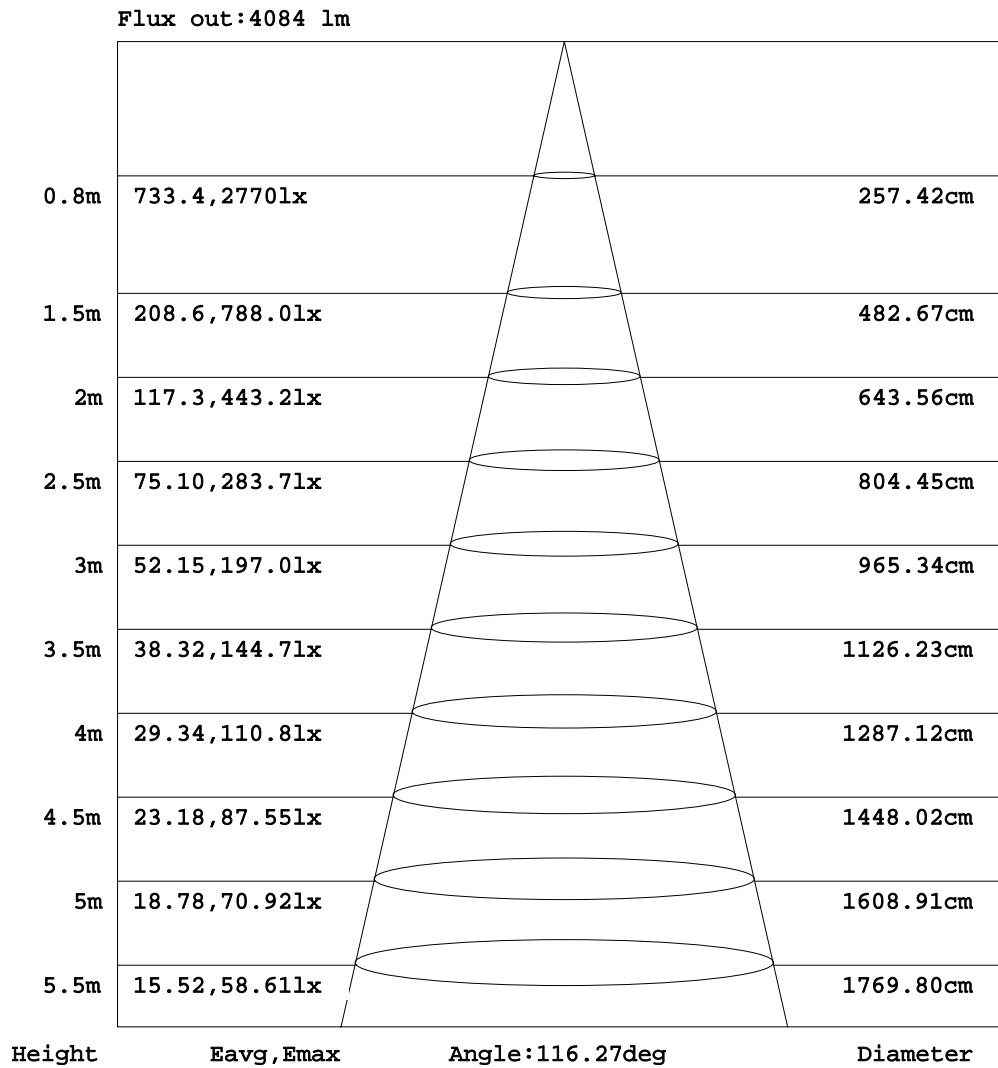
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: Alan Wang  
 Test Date: 21 December 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:



AAI Figure

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



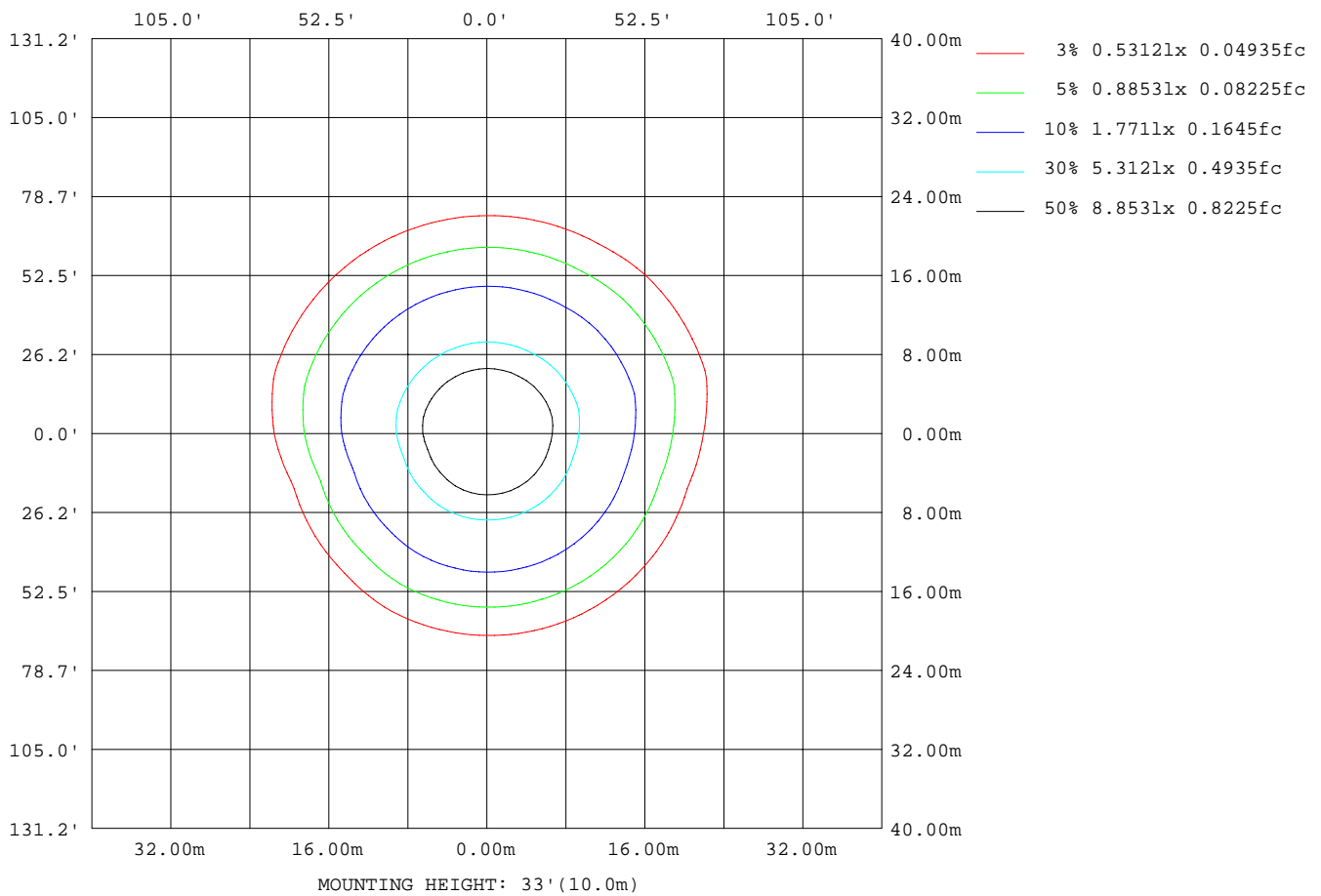
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

## LED Avg.L Report

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

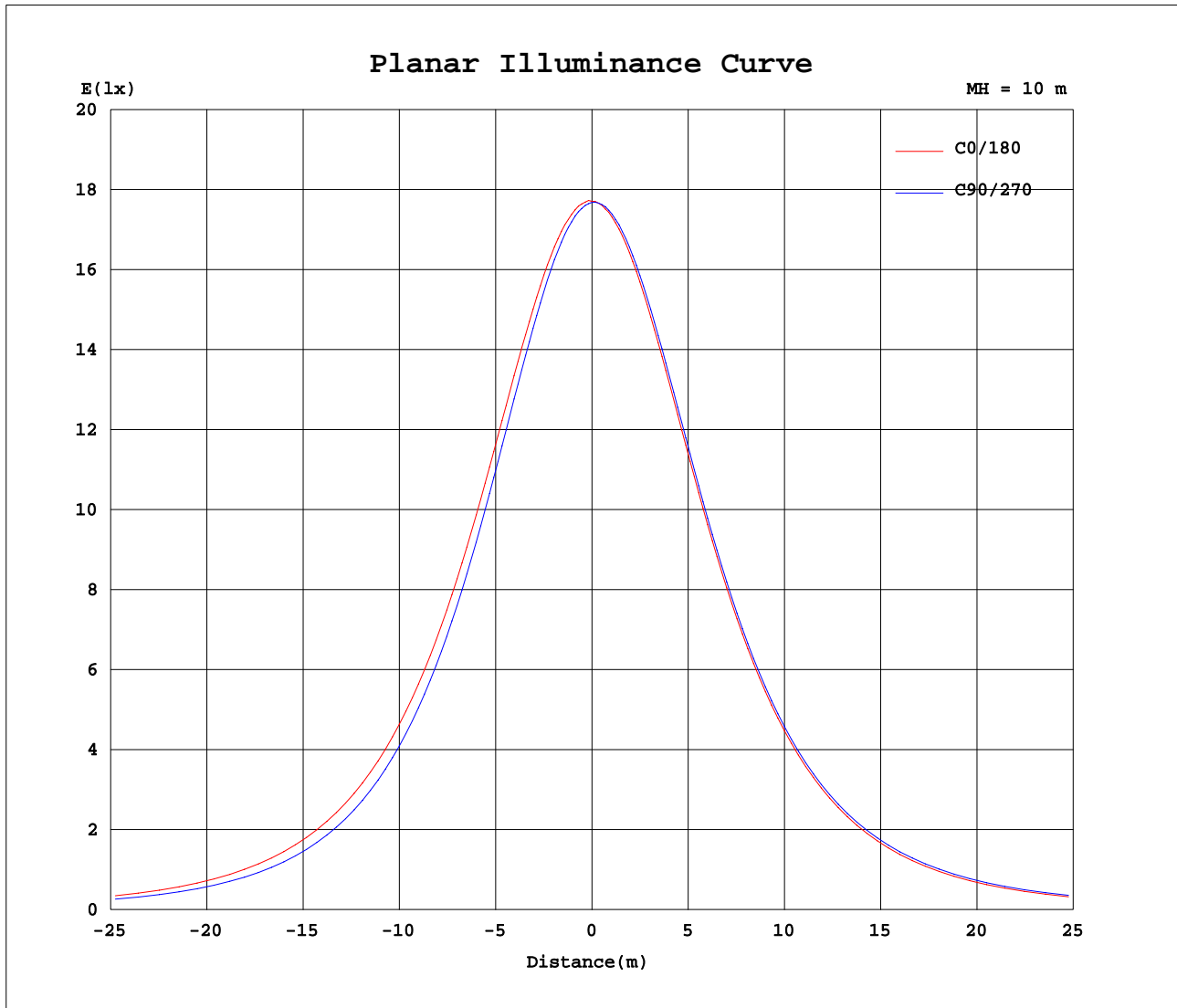
AvgL	cd/m2
L_0~180(65)av	2419
L_0~180(75)av	2181
L_0~180(85)av	1639
L_90~270(65)av	2245
L_90~270(75)av	2047
L_90~270(85)av	1612
L_45(65)av	2326
L_45(75)av	2124
L_45(85)av	1801

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: Alan Wang  
 Test Date: 21 December 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: Alan Wang  
 Test Date: 21 December 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	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	1771	1773	1772	1772	1769	1768	1768	1767	1766	1764	1762	1761	1771	1773	1772	1772	1769	1768	1768
5	1769	1764	1761	1760	1758	1755	1753	1752	1750	1744	1743	1742	1763	1770	1768	1769	1769	1769	1769
10	1756	1742	1740	1736	1731	1728	1724	1722	1720	1712	1712	1712	1743	1756	1755	1755	1754	1754	1756
15	1730	1709	1705	1699	1694	1686	1683	1680	1678	1669	1669	1670	1711	1730	1729	1729	1726	1728	1730
20	1694	1663	1658	1651	1642	1633	1627	1624	1623	1612	1614	1616	1667	1693	1691	1689	1688	1687	1690
25	1643	1605	1598	1588	1576	1566	1558	1555	1554	1544	1547	1550	1611	1645	1640	1638	1634	1633	1636
30	1580	1534	1526	1513	1498	1486	1477	1473	1475	1461	1467	1471	1544	1583	1579	1574	1570	1567	1569
35	1504	1449	1439	1424	1407	1393	1383	1379	1380	1367	1375	1381	1463	1511	1503	1498	1491	1488	1490
40	1414	1350	1339	1322	1303	1287	1277	1272	1274	1260	1269	1276	1370	1424	1417	1409	1401	1397	1398
45	1311	1238	1226	1207	1186	1170	1158	1153	1157	1140	1151	1159	1264	1326	1317	1307	1298	1291	1294
50	1194	1112	1100	1080	1058	1041	1029	1025	1029	1010	1021	1028	1145	1214	1205	1194	1183	1177	1178
55	1061	972	959	940	920	902	891	887	890	870	879	887	1012	1089	1080	1068	1057	1051	1052
60	916	819	809	790	771	755	745	741	743	720	729	735	868	953	943	932	922	915	916
65	759	658	648	633	616	603	594	590	591	564	571	575	713	804	796	786	777	771	773
70	593	490	483	472	459	449	441	436	437	408	411	414	552	647	641	633	626	621	623
75	423	323	320	314	305	298	291	287	286	256	258	257	390	485	482	478	474	471	472
80	258	168	168	166	160	153	147	144	142	115	117	116	234	326	326	324	323	322	323
85	110	38.5	37.4	35.0	30.9	27.4	23.9	20.9	19.1	12.4	13.2	14.3	95.3	177	179	180	180	178	178
90	11.2	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.27	0.27	0.26	0.42	49.7	50.1	50.1	50.4	49.6	50.2
95	0.26	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.32	0.31	0.31	0.51	0.45	0.45	0.45	0.45	0.44	0.44
100	0.31	0.32	0.31	0.31	0.32	0.32	0.33	0.34	0.35	0.36	0.35	0.35	0.59	0.54	0.54	0.54	0.54	0.53	0.53
105	0.35	0.35	0.33	0.33	0.35	0.35	0.36	0.37	0.39	0.41	0.40	0.39	0.65	0.60	0.60	0.60	0.61	0.60	0.60
110	0.38	0.37	0.35	0.33	0.35	0.38	0.39	0.42	0.44	0.47	0.46	0.44	0.63	0.62	0.62	0.63	0.64	0.63	0.64
115	0.45	0.43	0.40	0.38	0.39	0.43	0.45	0.48	0.50	0.53	0.53	0.52	0.63	0.60	0.60	0.61	0.62	0.62	0.63
120	0.53	0.50	0.47	0.44	0.44	0.46	0.50	0.53	0.57	0.62	0.61	0.60	0.72	0.61	0.62	0.61	0.61	0.62	0.64
125	0.61	0.59	0.53	0.52	0.53	0.53	0.56	0.60	0.66	0.69	0.67	0.67	0.83	0.73	0.71	0.70	0.66	0.66	0.68
130	0.68	0.67	0.61	0.59	0.60	0.63	0.65	0.68	0.73	0.74	0.72	0.73	0.90	0.84	0.84	0.84	0.82	0.80	0.82
135	0.74	0.73	0.69	0.66	0.66	0.69	0.71	0.73	0.77	0.77	0.75	0.75	0.94	0.92	0.93	0.96	0.96	0.97	0.99
140	0.77	0.76	0.72	0.67	0.66	0.69	0.70	0.72	0.76	0.75	0.75	0.75	0.95	0.94	0.96	1.00	1.03	1.06	1.06
145	0.77	0.78	0.72	0.68	0.64	0.66	0.64	0.67	0.72	0.75	0.73	0.76	0.95	0.93	0.94	0.99	1.02	1.05	1.04
150	0.80	0.83	0.78	0.70	0.64	0.66	0.62	0.66	0.73	0.76	0.79	0.81	1.01	0.95	0.95	0.97	0.98	1.00	1.02
155	0.85	0.90	0.84	0.74	0.65	0.67	0.61	0.68	0.76	0.83	0.87	0.92	1.04	1.01	0.97	0.99	0.97	0.96	0.95
160	0.96	0.99	0.95	0.89	0.75	0.74	0.68	0.76	0.89	0.98	1.02	1.05	1.14	1.08	1.06	1.02	1.00	0.98	0.91
165	1.05	1.11	1.08	1.01	0.88	0.85	0.83	0.89	1.01	1.07	1.12	1.14	1.17	1.15	1.14	1.10	1.09	1.02	0.97
170	1.12	1.16	1.14	1.11	0.98	0.98	0.98	0.97	1.08	1.13	1.13	1.15	1.20	1.20	1.25	1.25	1.24	1.17	1.10
175	1.17	1.21	1.20	1.19	1.12	1.13	1.10	1.07	1.13	1.11	1.11	1.13	1.21	1.21	1.26	1.29	1.31	1.28	1.20
180	1.17	1.21	1.21	1.23	1.27	1.21	1.18	1.17	1.10	1.19	1.18	1.13	1.17	1.19	1.23	1.24	1.24	1.27	1.21

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.28V I:0.3365A P:40.235W PF:0.9939 Freq:60.01Hz Lamp Flux:5200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-BLP-24D40AC-EM-PRM-3500K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1767	1766	1764	1762	1761														
5	1768	1768	1769	1769	1769														
10	1758	1758	1762	1764	1764														
15	1732	1735	1744	1745	1748														
20	1692	1698	1712	1716	1719														
25	1641	1649	1668	1673	1679														
30	1575	1585	1609	1619	1628														
35	1497	1508	1539	1551	1561														
40	1406	1420	1456	1471	1482														
45	1303	1319	1358	1376	1389														
50	1188	1205	1250	1268	1283														
55	1062	1080	1127	1147	1163														
60	926	944	992	1013	1029														
65	782	798	848	866	882														
70	631	645	694	710	725														
75	479	490	535	548	559														
80	328	336	377	385	392														
85	182	187	224	228	231														
90	51.9	54.5	83.0	86.7	88.9														
95	0.43	0.43	0.43	0.41	0.41														
100	0.52	0.52	0.50	0.50	0.50														
105	0.60	0.60	0.58	0.58	0.58														
110	0.63	0.63	0.63	0.63	0.62														
115	0.63	0.63	0.63	0.62	0.61														
120	0.64	0.63	0.63	0.62	0.61														
125	0.67	0.67	0.67	0.68	0.69														
130	0.78	0.77	0.76	0.75	0.79														
135	0.94	0.90	0.85	0.84	0.86														
140	1.00	0.95	0.91	0.90	0.89														
145	1.00	0.99	0.95	0.94	0.92														
150	0.99	0.98	0.97	0.96	0.95														
155	0.95	0.95	0.98	0.98	1.00														
160	0.92	0.94	0.96	1.04	1.03														
165	0.93	0.95	0.98	1.06	1.09														
170	1.04	1.02	1.03	1.11	1.15														
175	1.16	1.15	1.07	1.14	1.18														
180	1.19	1.19	1.09	1.18	1.16														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 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: 48.0%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks: