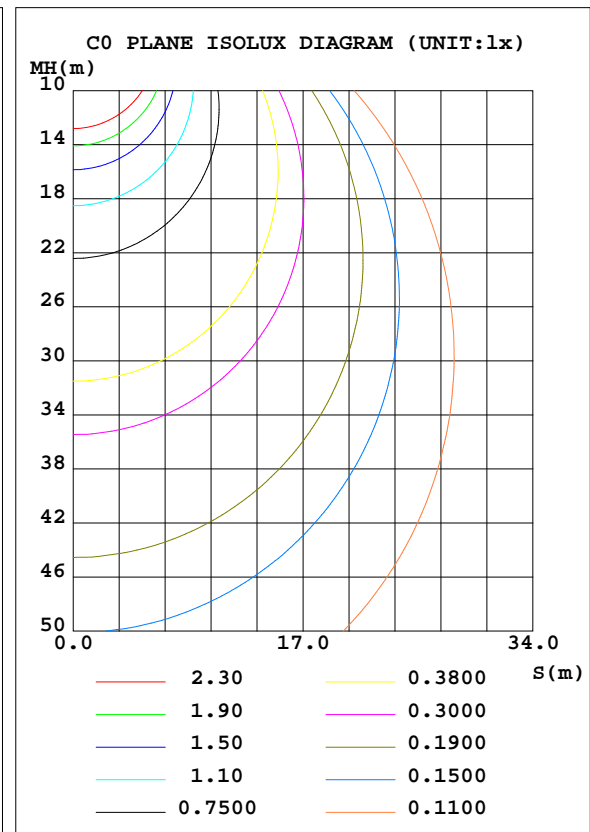
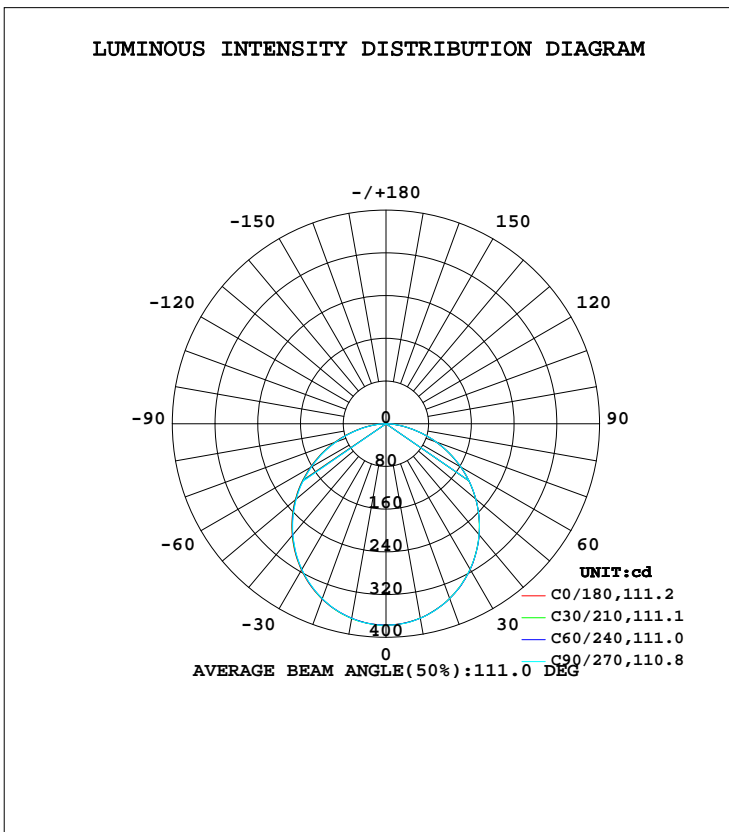


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.10 lm/W			
MODEL	ASD-MPR-7D15CC_3000K	I <sub>max</sub> (cd)	377.4	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1020	η UP, DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	1020	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.0
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: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	369.7	369.7	369.8	369.8	370.0	369.8	370.1	369.6	0- 10	35.65	35.65	3.36,3.36
20	348.5	348.2	348.5	348.7	349.6	349.1	348.6	348.3	10- 20	101.8	137.5	13,13
30	315.2	314.7	314.9	315.3	316.5	315.7	315.1	314.7	20- 30	153.6	291.1	27.4,27.4
40	271.4	271.2	271.3	271.7	273.3	272.3	271.2	271.0	30- 40	184.3	475.4	44.8,44.8
50	219.4	219.6	219.6	220.6	222.0	220.5	219.3	219.4	40- 50	190.3	665.7	62.7,62.7
60	161.3	161.7	161.9	162.6	163.6	162.3	160.8	160.9	50- 60	171.3	837.0	78.9,78.9
70	99.62	100.2	100.3	101.3	102.5	100.9	99.17	99.33	60- 70	130.0	966.9	91.1,91.1
80	40.28	40.57	40.81	41.81	43.20	41.85	40.26	40.37	70- 80	73.96	1041	98.1,98.1
90	0.0405	0.0454	0.0497	0.0618	0.0868	0.0745	0.0698	0.0701	80- 90	18.99	1060	99.9,99.9
100	0.0588	0.0574	0.0565	0.0561	0.1127	0.1140	0.1134	0.1140	90-100	0.0744	1060	99.9,99.9
110	0.0925	0.0910	0.0900	0.0883	0.1435	0.1435	0.1423	0.1458	100-110	0.1086	1060	99.9,99.9
120	0.1384	0.1392	0.1349	0.1349	0.1564	0.1553	0.1551	0.1561	110-120	0.1304	1060	99.9,99.9
130	0.1852	0.1875	0.1818	0.1825	0.1945	0.1932	0.1922	0.1929	120-130	0.1487	1060	99.9,99.9
140	0.2144	0.2131	0.2108	0.2102	0.2451	0.2425	0.2418	0.2421	130-140	0.1619	1061	100,100
150	0.2301	0.2318	0.2279	0.2276	0.3032	0.2989	0.2987	0.2993	140-150	0.1540	1061	100,100
160	0.2700	0.2732	0.2686	0.2706	0.3413	0.3373	0.3363	0.3364	150-160	0.1314	1061	100,100
170	0.2937	0.3002	0.3022	0.2992	0.3379	0.3356	0.3333	0.3333	160-170	0.0886	1061	100,100
180	0.3218	0.3182	0.3167	0.3169	0.3232	0.3215	0.3202	0.3219	170-180	0.0306	1061	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 571.37 lm

%lum = 53.9%

%lamp = 53.9%

Conical surface Flux(120deg): 836.96 lm

%lum = 78.9%

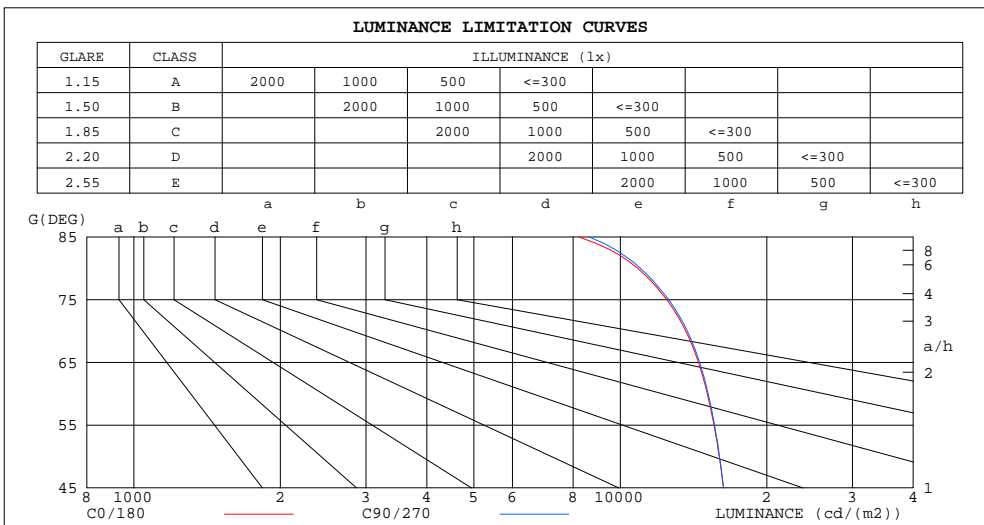
%lamp = 78.9%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8206	8608
80	10855	10996
75	12458	12573
70	13629	13727
65	14476	14557
60	15093	15149
55	15579	15626
50	15973	15986
45	16300	16303

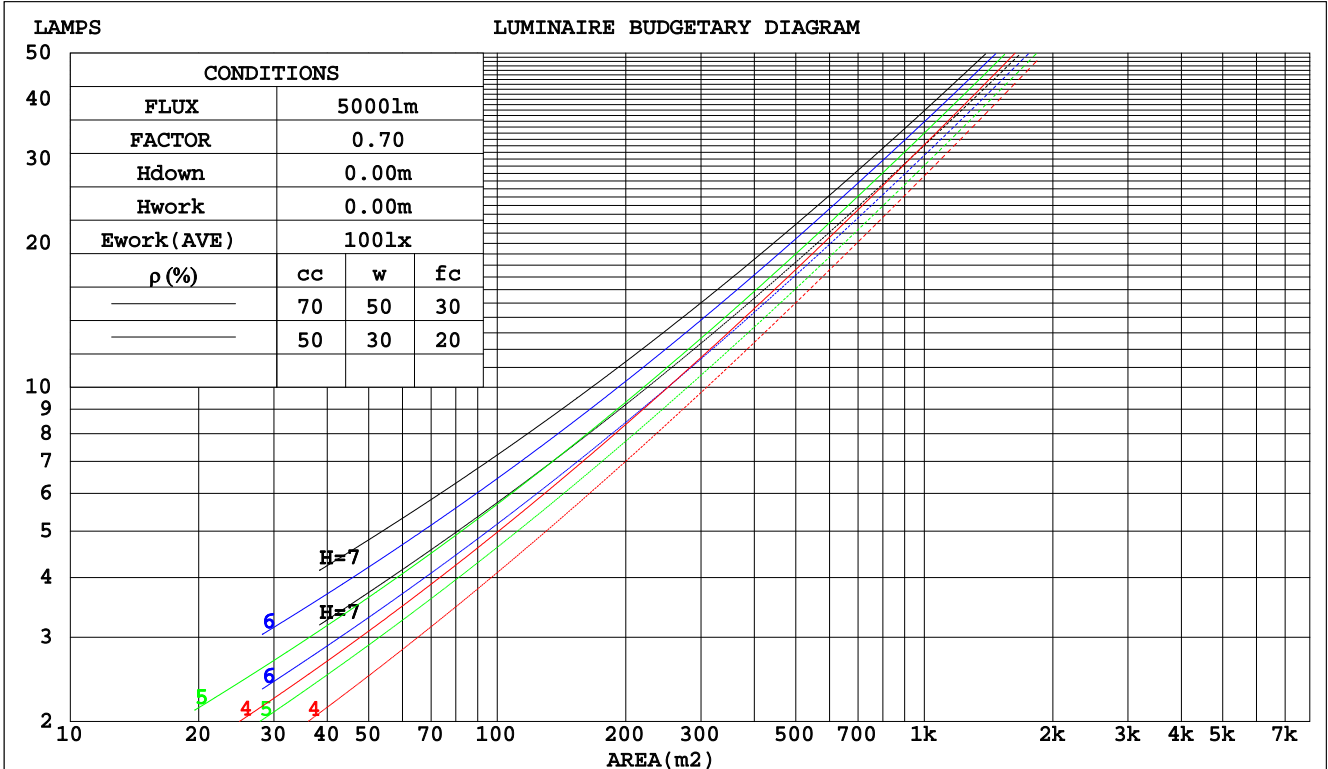
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.69	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	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	.308	.175	.056	.301	.172	.055	.288	.165	.053	.276	.159	.051	.264	.153	.049	
2.0	.291	.159	.049	.284	.157	.048	.273	.152	.047	.262	.147	.046	.252	.142	.045	
3.0	.269	.143	.043	.264	.141	.043	.253	.137	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.226	.116	.034	.217	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030	
7.0	.198	.098	.028	.195	.097	.028	.189	.095	.027	.182	.094	.027	.177	.092	.027	
8.0	.185	.091	.025	.182	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.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	.181	.157	.135	.155	.135	.116	.106	.093	.080	.061	.054	.047	.020	.017	.015	
2.0	.173	.133	.099	.148	.114	.085	.101	.079	.060	.059	.046	.035	.019	.015	.011	
3.0	.165	.115	.075	.142	.099	.065	.097	.069	.046	.056	.040	.027	.018	.013	.009	
4.0	.157	.102	.059	.135	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.048	.129	.079	.042	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.083	.040	.123	.072	.035	.085	.050	.025	.049	.030	.015	.016	.010	.005	
7.0	.136	.076	.034	.117	.066	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
8.0	.130	.070	.029	.112	.061	.026	.077	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.124	.065	.026	.106	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.070	.037	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm										
NAME:					TYPE:LED			WEIGHT:		
SPEC.:ASD-MPR-7D15CC_3000K					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	22.4	23.9	22.7	24.1	24.3	22.4	23.9	22.7	24.1	24.3
3H	23.9	25.3	24.2	25.5	25.8	23.9	25.3	24.2	25.5	25.8
4H	24.5	25.8	24.8	26.1	26.3	24.5	25.8	24.8	26.1	26.3
6H	24.9	26.1	25.2	26.4	26.7	24.9	26.2	25.2	26.4	26.7
8H	25.0	26.2	25.3	26.5	26.8	25.0	26.2	25.4	26.5	26.8
12H	25.0	26.2	25.4	26.5	26.8	25.1	26.2	25.4	26.5	26.8
4H 2H	23.0	24.3	23.3	24.6	24.9	23.0	24.3	23.3	24.6	24.9
3H	24.7	25.8	25.0	26.1	26.5	24.7	25.9	25.0	26.2	26.5
4H	25.4	26.4	25.8	26.8	27.1	25.4	26.5	25.8	26.8	27.1
6H	25.9	26.8	26.3	27.2	27.6	25.9	26.9	26.3	27.2	27.6
8H	26.1	26.9	26.5	27.3	27.7	26.1	27.0	26.5	27.3	27.7
12H	26.2	27.0	26.6	27.3	27.8	26.2	27.0	26.6	27.4	27.8
8H 4H	25.6	26.5	26.1	26.9	27.3	25.7	26.5	26.1	26.9	27.3
6H	26.3	27.0	26.7	27.4	27.9	26.3	27.0	26.8	27.5	27.9
8H	26.5	27.2	27.0	27.6	28.1	26.6	27.2	27.0	27.6	28.1
12H	26.7	27.2	27.2	27.7	28.2	26.7	27.3	27.2	27.7	28.2
12H 4H	25.6	26.5	26.1	26.8	27.3	25.7	26.5	26.1	26.9	27.3
6H	26.3	27.0	26.8	27.4	27.9	26.4	27.0	26.8	27.4	27.9
8H	26.6	27.2	27.1	27.6	28.1	26.6	27.2	27.1	27.7	28.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1061 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.2)  
 Area: 0.0213716 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

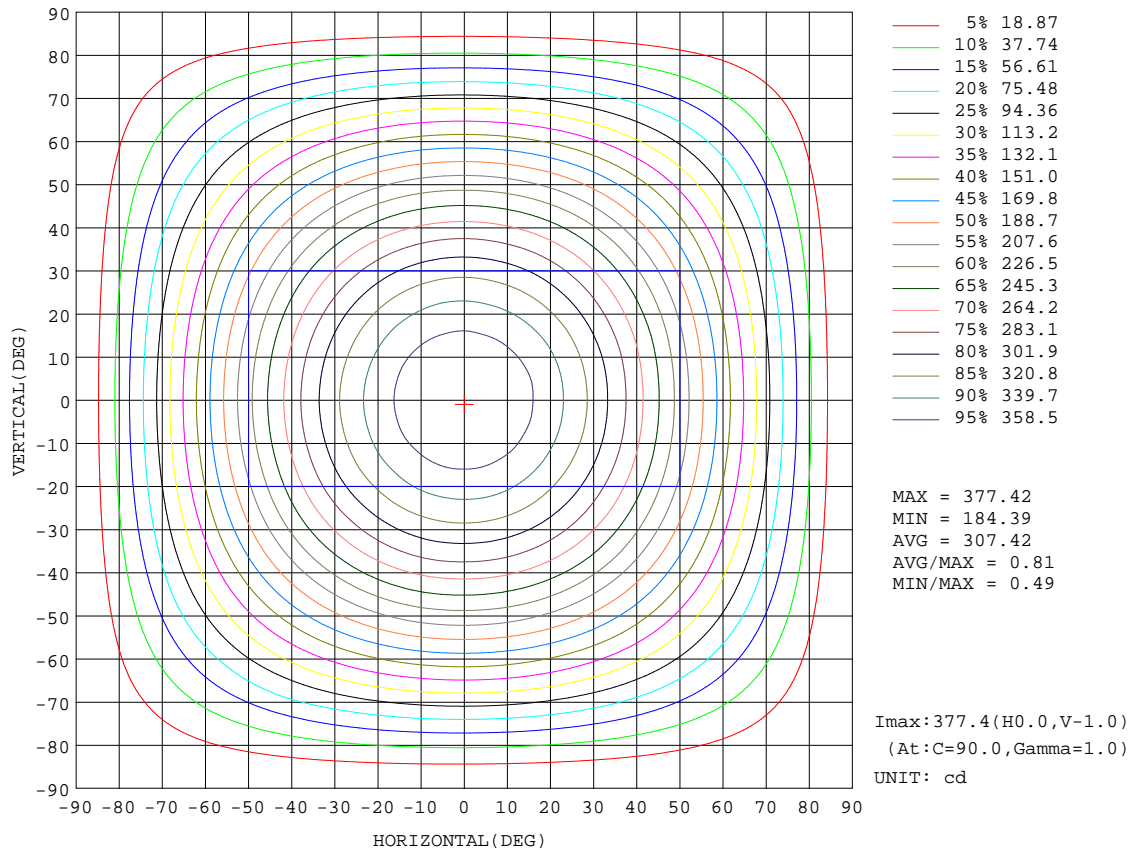
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	86	77	71	83	76	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



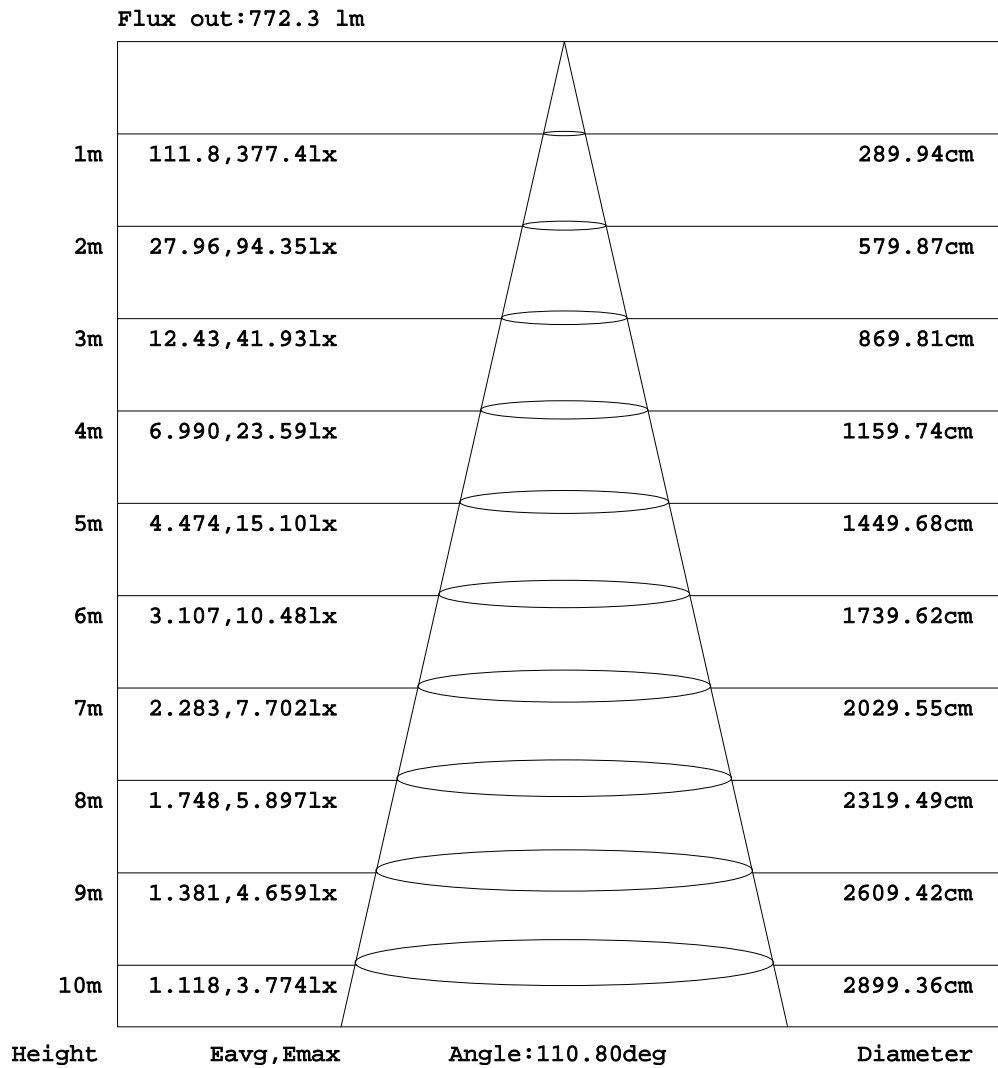
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:



AAI Figure

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



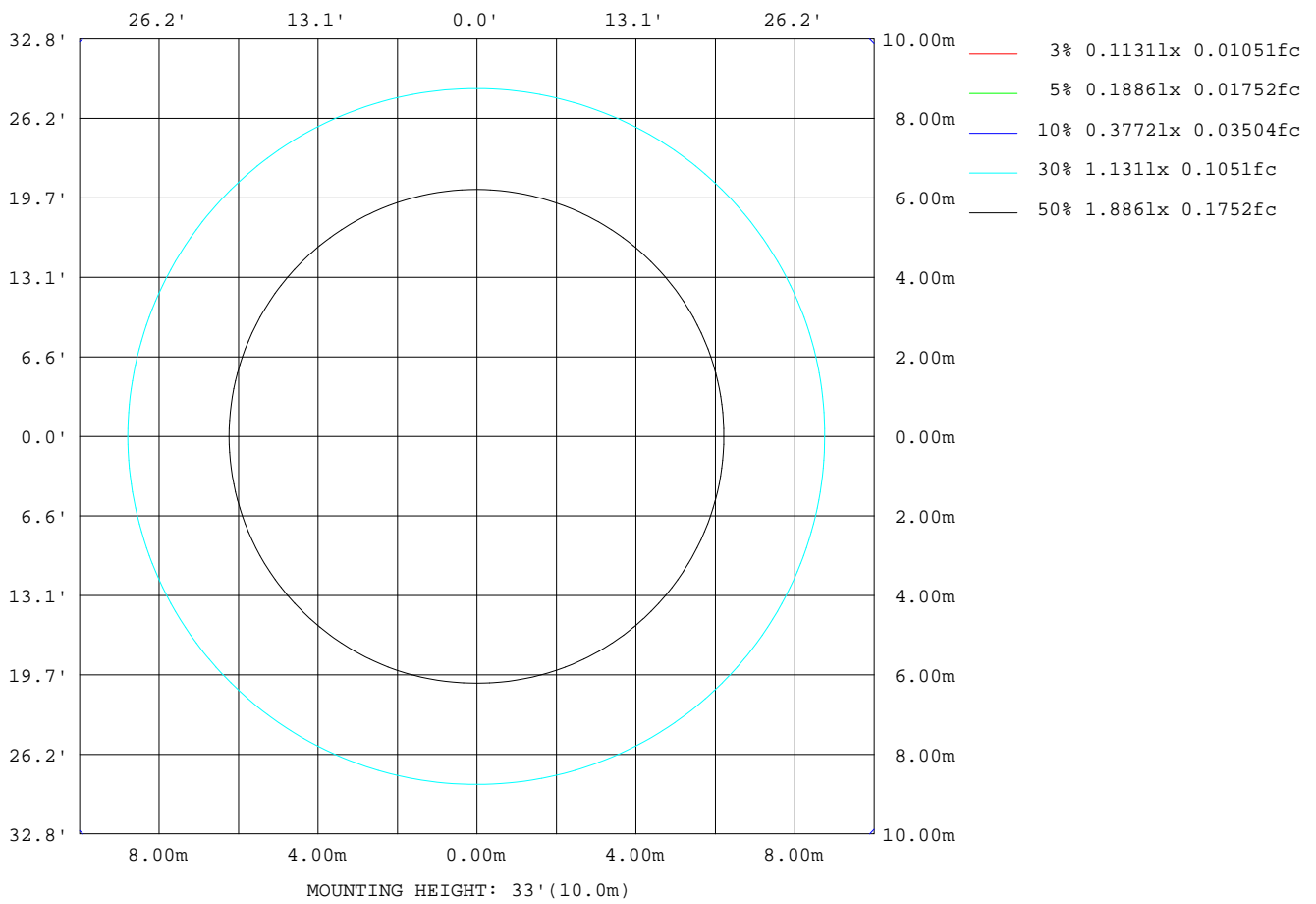
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators:Alan Wang  
 Test Date:24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance:2.500m [K=1.0391]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

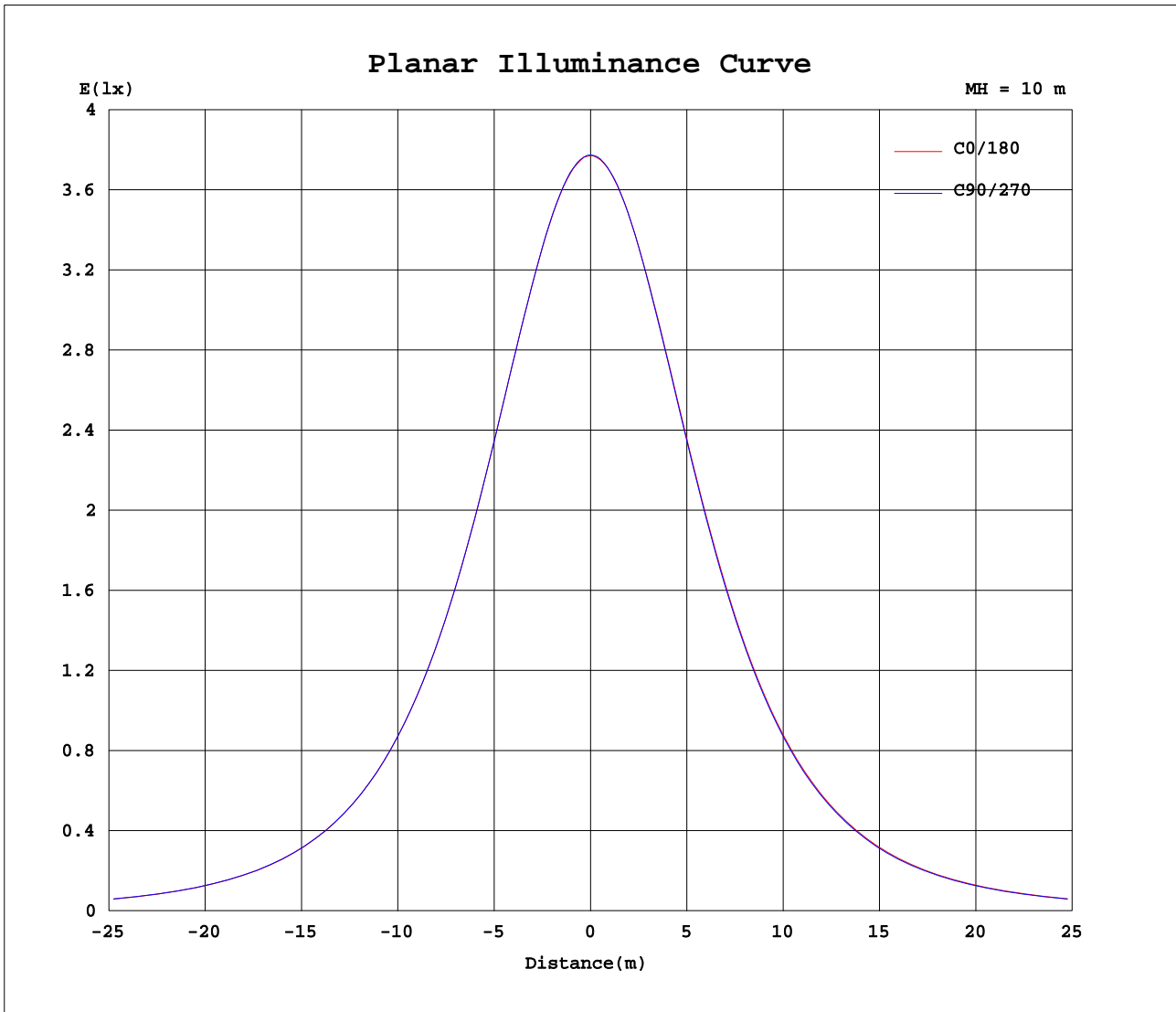
AvgL	cd/m2
L_0~180(65)av	14615
L_0~180(75)av	12730
L_0~180(85)av	8913
L_90~270(65)av	14490
L_90~270(75)av	12494
L_90~270(85)av	8581
L_45(65)av	14553
L_45(75)av	12651
L_45(85)av	8764

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	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	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377
5	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	376
10	370	370	369	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
15	361	361	360	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361
20	349	349	348	348	348	348	349	349	349	349	349	349	350	349	349	349	349	349	349
25	333	333	333	333	333	333	333	333	333	333	334	334	335	334	334	334	334	333	333
30	315	315	315	315	315	315	315	315	315	315	316	316	317	316	316	316	315	315	315
35	294	294	294	294	294	294	294	295	295	295	296	295	296	296	295	295	295	295	294
40	271	271	271	271	271	271	271	272	272	272	273	273	273	273	273	272	272	271	271
45	246	246	246	246	246	246	246	247	247	247	248	248	248	248	248	247	247	247	246
50	219	220	219	220	220	220	220	220	220	221	221	221	222	222	221	220	220	220	219
55	191	191	191	191	191	192	192	192	192	192	193	193	194	193	193	192	192	191	191
60	161	162	162	162	162	162	162	162	163	163	163	163	164	163	163	162	162	161	161
65	131	131	131	131	131	131	131	132	132	132	133	133	133	133	132	132	131	131	130
70	99.6	99.9	100.0	100	100	100	100	101	101	101	102	102	102	102	102	101	100	99.7	99.2
75	68.9	69.2	69.3	69.3	69.3	69.4	69.5	69.8	70.2	71.4	70.9	71.7	71.9	71.6	71.1	70.4	69.8	69.2	68.7
80	40.3	40.5	40.5	40.6	40.6	40.6	40.8	41.0	41.4	41.8	42.2	42.3	43.2	42.9	42.5	41.9	41.3	40.7	40.3
85	15.3	15.5	15.6	15.7	15.8	15.9	16.0	16.3	16.5	16.8	17.0	17.1	17.9	17.7	17.4	17.0	16.6	16.2	15.9
90	0.04	0.04	0.04	0.05	0.04	0.05	0.05	0.05	0.07	0.06	0.06	0.08	0.09	0.08	0.08	0.07	0.07	0.07	0.07
95	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.09	0.09	0.09	0.09	0.09	0.09	0.09
100	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.11	0.11	0.11	0.11	0.11	0.11	0.11
105	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.13
110	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.14	0.14	0.14	0.14	0.14	0.14	0.14
115	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.15	0.15	0.15	0.15	0.15	0.15	0.15
120	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.14	0.13	0.13	0.13	0.14	0.16	0.16	0.16	0.16	0.16	0.16	0.16
125	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17
130	0.19	0.18	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19
135	0.20	0.20	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.22	0.22	0.22	0.22	0.22	0.22	0.22
140	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.24	0.24	0.24	0.24	0.24
145	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.27	0.27	0.27	0.27	0.27	0.27	0.27
150	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.30	0.30	0.30	0.30	0.30	0.30	0.30
155	0.25	0.25	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.32	0.32	0.32	0.32	0.32	0.32	0.32
160	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.34	0.34	0.34	0.34	0.34	0.34	0.34
165	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.35	0.35	0.34	0.34	0.34	0.34	0.34
170	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.34	0.34	0.34	0.34	0.33	0.33	0.33
175	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.34	0.34	0.34	0.33	0.34	0.33	0.33
180	0.32	0.32	0.32	0.32	0.32	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1396A P:15.430W PF:0.9212 Freq:60.00Hz Lamp Flux:1020x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	377	377	377	377	377														
5	375	375	375	375	375														
10	369	370	370	370	370														
15	360	361	361	361	361														
20	348	348	348	349	349														
25	333	333	333	333	333														
30	315	315	315	315	315														
35	294	294	294	294	295														
40	271	271	271	271	272														
45	246	246	246	246	247														
50	219	219	219	220	220														
55	191	191	191	191	192														
60	161	161	161	161	162														
65	130	130	130	131	131														
70	99.1	99.2	99.3	99.8	100														
75	68.6	68.6	68.9	69.2	69.7														
80	40.1	40.1	40.4	40.7	41.0														
85	15.8	15.8	15.8	16.0	16.1														
90	0.07	0.07	0.07	0.07	0.07														
95	0.09	0.09	0.09	0.09	0.09														
100	0.11	0.11	0.11	0.11	0.12														
105	0.14	0.14	0.14	0.14	0.14														
110	0.14	0.14	0.15	0.15	0.14														
115	0.15	0.15	0.15	0.15	0.15														
120	0.16	0.16	0.16	0.16	0.16														
125	0.17	0.17	0.17	0.17	0.17														
130	0.19	0.19	0.19	0.19	0.19														
135	0.22	0.22	0.22	0.22	0.22														
140	0.24	0.24	0.24	0.24	0.24														
145	0.27	0.27	0.27	0.27	0.27														
150	0.30	0.30	0.30	0.30	0.30														
155	0.32	0.32	0.32	0.32	0.32														
160	0.34	0.34	0.34	0.34	0.34														
165	0.34	0.34	0.34	0.34	0.34														
170	0.33	0.33	0.33	0.34	0.34														
175	0.33	0.34	0.34	0.33	0.34														
180	0.32	0.32	0.32	0.32	0.32														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.9%  
 Test Distance: 2.500m [K=1.0391]  
 Remarks: