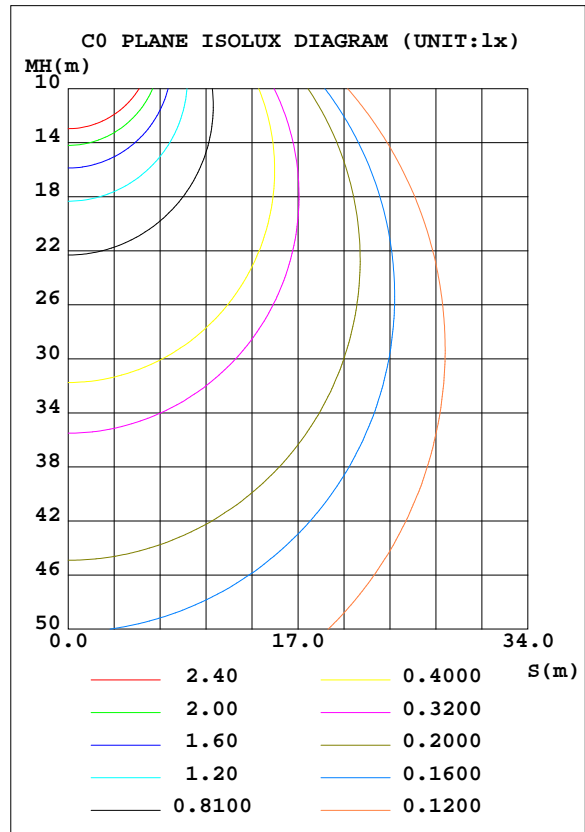
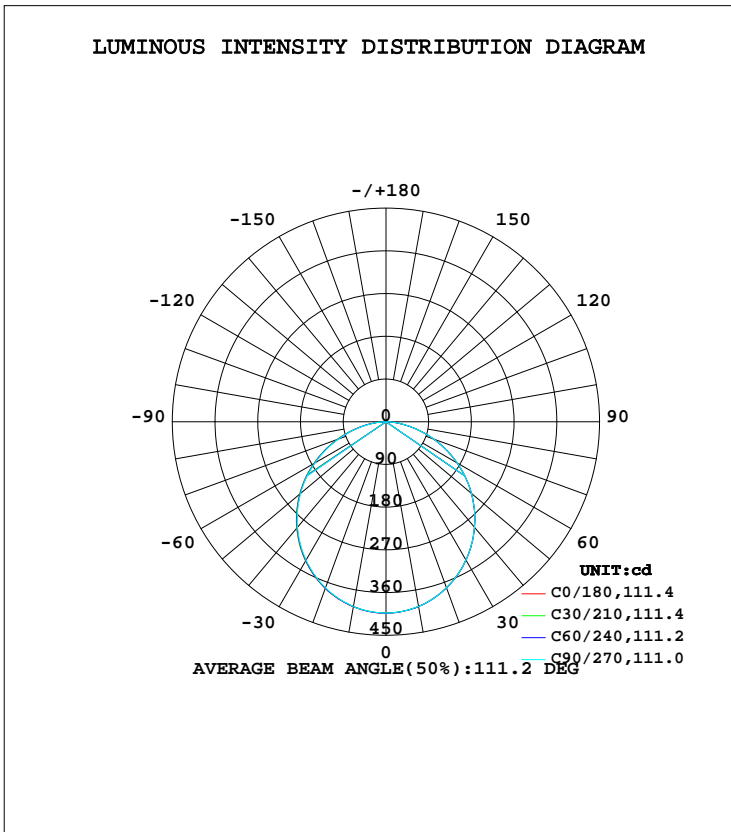


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.82 lm/W			
MODEL	ASD-MPR-7D15CC_5000K	I <sub>max</sub> (cd)	403.5	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)	1135.2	η UP, DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	1135.19	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	395.0	395.3	395.3	395.6	395.8	395.2	395.3	395.2	0- 10	38.11	38.11	3.36,3.36
20	372.1	372.6	372.5	373.2	373.9	373.0	372.4	372.4	10- 20	108.9	147.0	12.9,12.9
30	336.3	337.0	336.7	337.4	338.7	337.7	336.6	337.0	20- 30	164.3	311.3	27.4,27.4
40	289.8	290.4	290.2	291.1	292.5	291.4	290.0	290.4	30- 40	197.1	508.4	44.8,44.8
50	234.6	235.2	235.0	235.9	237.6	236.3	234.8	235.1	40- 50	203.7	712.1	62.7,62.7
60	172.6	173.1	173.2	174.2	175.1	173.8	172.4	172.5	50- 60	183.4	895.4	78.9,78.9
70	106.5	107.0	107.3	108.4	109.6	108.2	106.4	106.7	60- 70	139.1	1035	91.1,91.1
80	43.11	43.37	43.60	44.73	46.36	44.86	43.24	43.36	70- 80	79.19	1114	98.1,98.1
90	0.0400	0.0413	0.0611	0.0796	0.0944	0.0829	0.0759	0.0756	80- 90	20.32	1134	99.9,99.9
100	0.0630	0.0620	0.0614	0.0607	0.1216	0.1216	0.1223	0.1226	90-100	0.0799	1134	99.9,99.9
110	0.0991	0.0984	0.0978	0.0961	0.1531	0.1534	0.1544	0.1560	100-110	0.1166	1134	99.9,99.9
120	0.1480	0.1484	0.1456	0.1451	0.1672	0.1665	0.1666	0.1679	110-120	0.1399	1134	99.9,99.9
130	0.1983	0.2009	0.1954	0.1956	0.2074	0.2056	0.2054	0.2058	120-130	0.1592	1135	99.9,99.9
140	0.2282	0.2282	0.2263	0.2246	0.2619	0.2585	0.2585	0.2589	130-140	0.1733	1135	100,100
150	0.2465	0.2479	0.2443	0.2440	0.3229	0.3190	0.3190	0.3203	140-150	0.1646	1135	100,100
160	0.2876	0.2915	0.2873	0.2893	0.3636	0.3597	0.3593	0.3600	150-160	0.1403	1135	100,100
170	0.3134	0.3199	0.3232	0.3205	0.3605	0.3582	0.3566	0.3560	160-170	0.0946	1135	100,100
180	0.3448	0.3403	0.3372	0.3385	0.3448	0.3426	0.3422	0.3439	170-180	0.0327	1135	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 611.1 lm

%lum = 53.8%

%lamp = 53.8%

Conical surface Flux(120deg): 895.43 lm

%lum = 78.9%

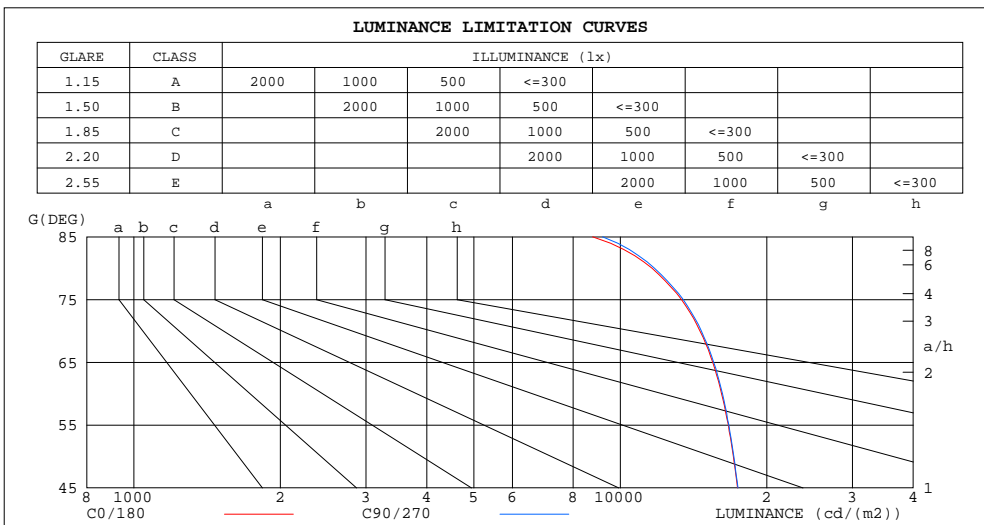
%lamp = 78.9%

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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8769	9191
80	11617	11749
75	13361	13473
70	14572	14677
65	15487	15558
60	16149	16213
55	16672	16713
50	17077	17109
45	17416	17448

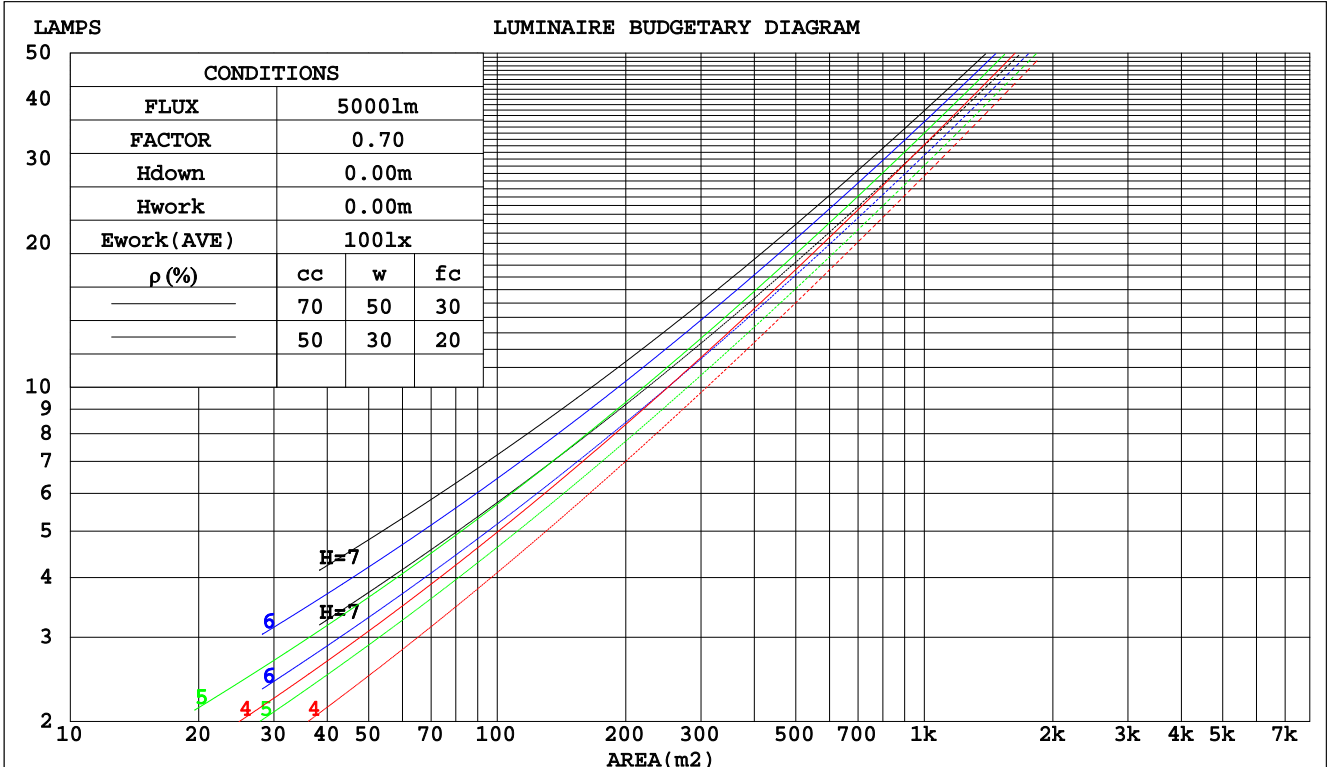
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

$\gamma$  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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	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	.285	.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	.235	.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	.199	.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	.012	.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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm										
NAME:					TYPE:LED			WEIGHT:		
SPEC.:ASD-MPR-7D15CC_5000K					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	22.6	24.1	22.9	24.4	24.6	22.6	24.2	22.9	24.4	24.6
3H	24.1	25.5	24.4	25.8	26.0	24.1	25.5	24.4	25.8	26.0
4H	24.7	26.0	25.0	26.3	26.6	24.7	26.1	25.0	26.3	26.6
6H	25.1	26.4	25.4	26.6	26.9	25.1	26.4	25.5	26.7	26.9
8H	25.2	26.4	25.6	26.7	27.0	25.2	26.5	25.6	26.7	27.0
12H	25.3	26.4	25.6	26.7	27.0	25.3	26.5	25.7	26.8	27.1
4H 2H	23.2	24.6	23.6	24.8	25.1	23.2	24.6	23.6	24.8	25.1
3H	24.9	26.1	25.3	26.4	26.7	24.9	26.1	25.3	26.4	26.7
4H	25.6	26.7	26.0	27.0	27.3	25.6	26.7	26.0	27.0	27.4
6H	26.1	27.1	26.5	27.4	27.8	26.2	27.1	26.6	27.5	27.8
8H	26.3	27.2	26.7	27.5	27.9	26.3	27.2	26.7	27.6	28.0
12H	26.4	27.2	26.8	27.6	28.0	26.4	27.2	26.8	27.6	28.0
8H 4H	25.9	26.8	26.3	27.1	27.5	25.9	26.8	26.3	27.1	27.5
6H	26.5	27.3	27.0	27.7	28.1	26.5	27.3	27.0	27.7	28.1
8H	26.8	27.4	27.2	27.8	28.3	26.8	27.4	27.3	27.9	28.3
12H	26.9	27.5	27.4	27.9	28.4	27.0	27.5	27.4	28.0	28.4
12H 4H	25.9	26.7	26.3	27.1	27.5	25.9	26.7	26.3	27.1	27.5
6H	26.6	27.2	27.0	27.7	28.1	26.6	27.2	27.1	27.7	28.1
8H	26.9	27.4	27.3	27.9	28.3	26.9	27.4	27.4	27.9	28.4
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, 1135 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.4)  
 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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

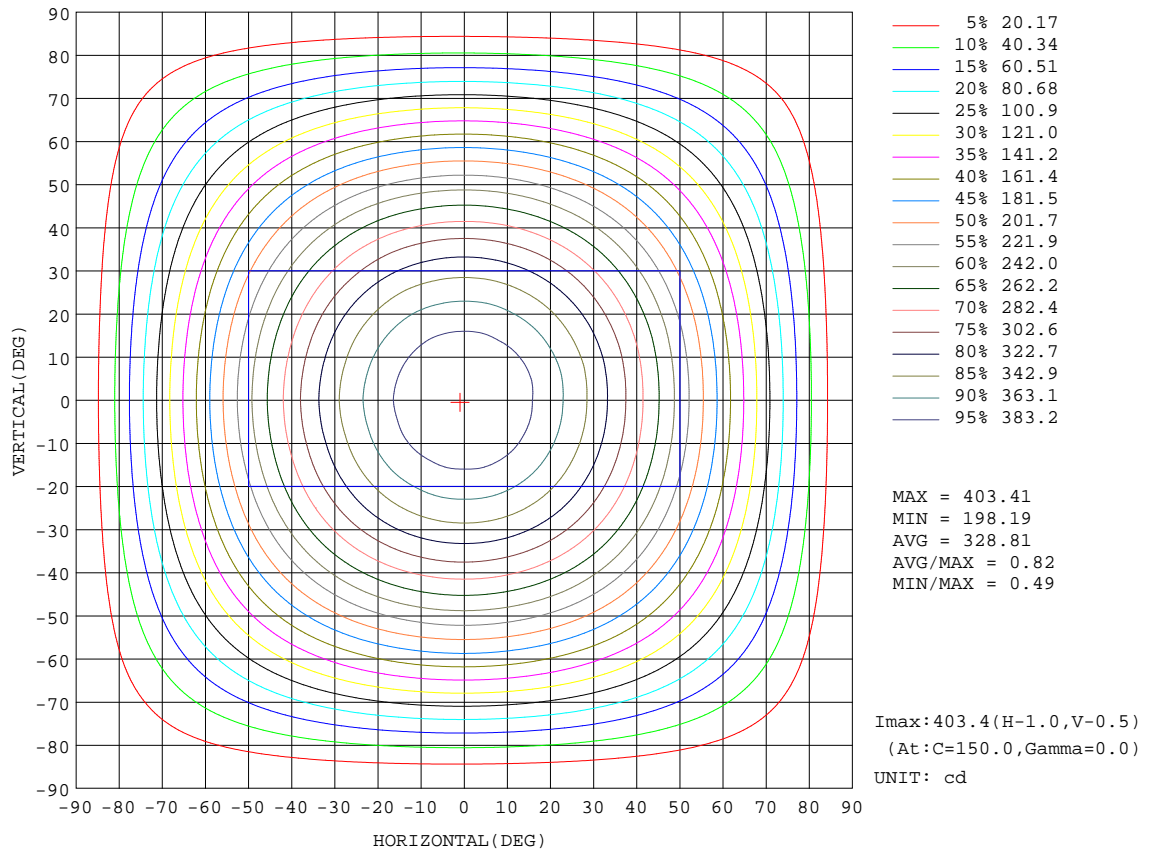
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



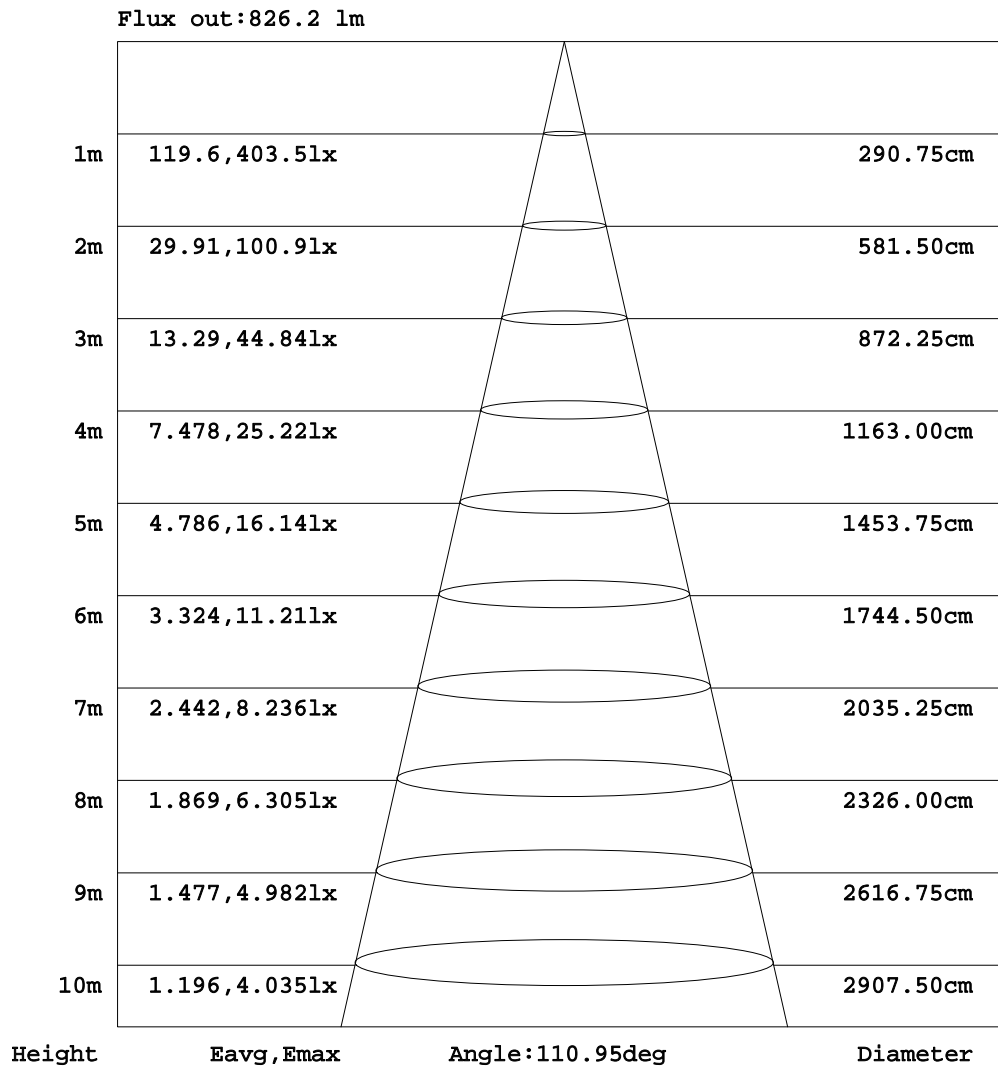
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 May 2023

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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



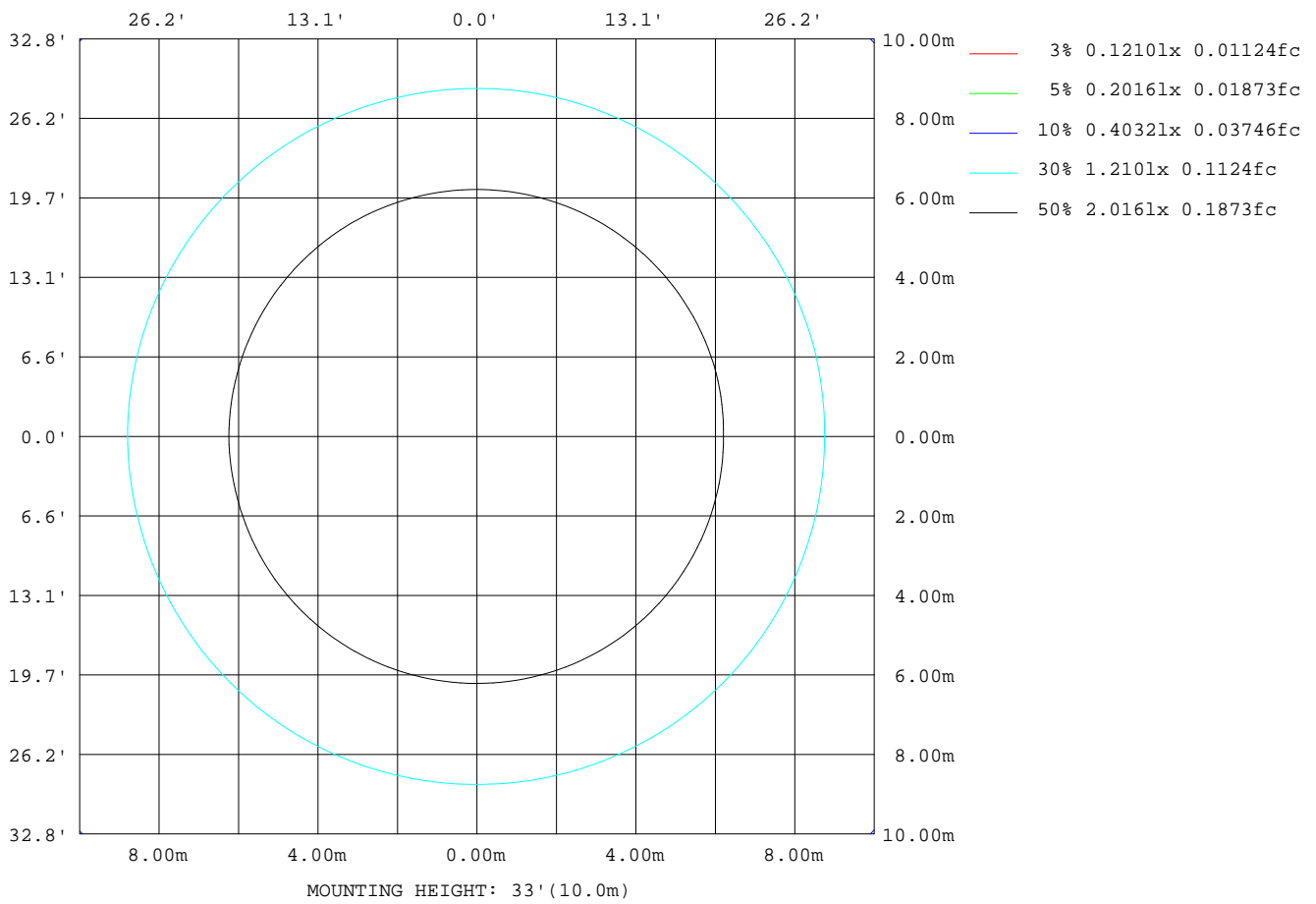
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	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

$\gamma$  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:

## LED Avg.L Report

Test:U:120.00V I:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

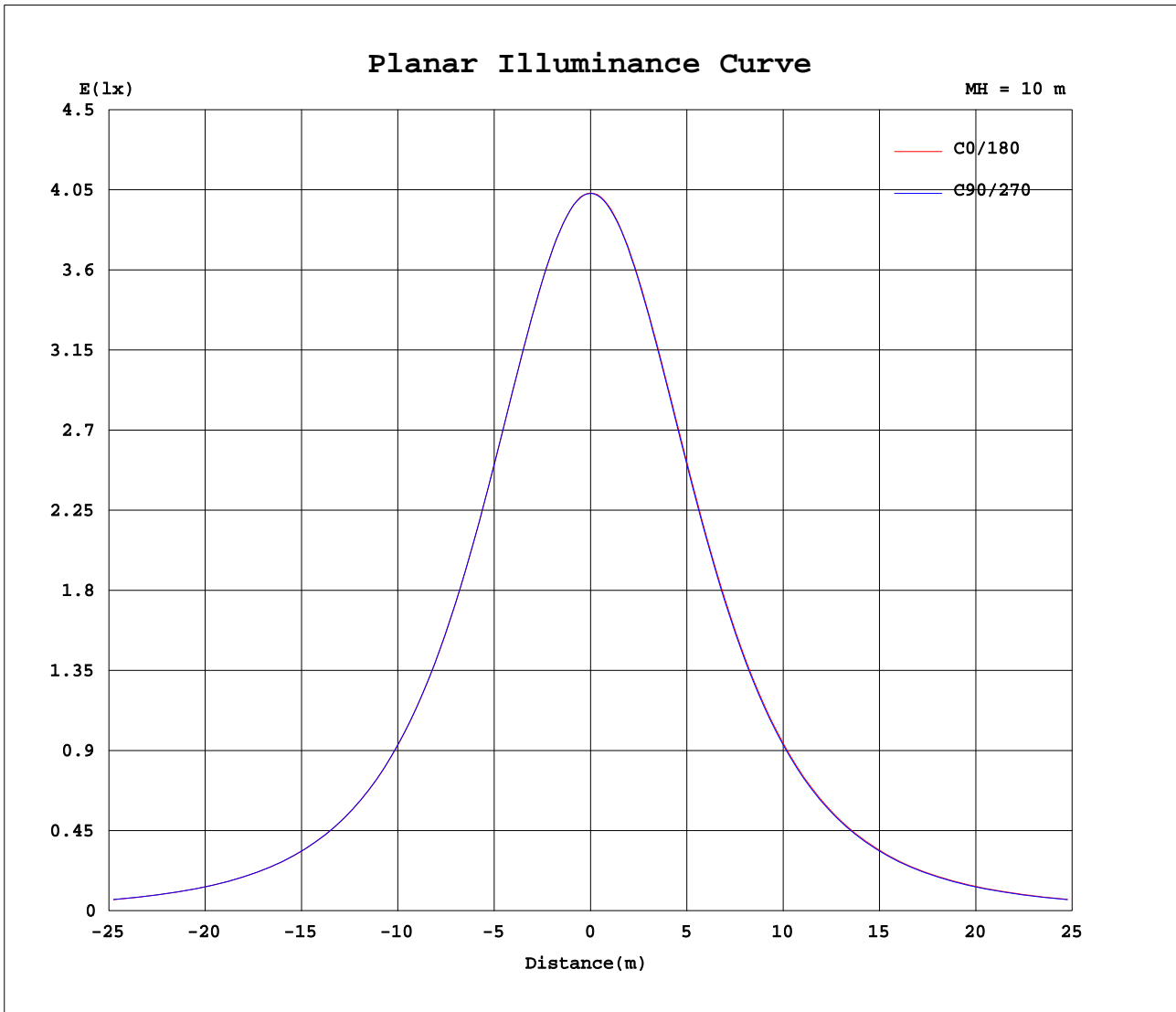
AvgL	cd/m2
L_0~180(65)av	15644
L_0~180(75)av	13649
L_0~180(85)av	9558
L_90~270(65)av	15512
L_90~270(75)av	13402
L_90~270(85)av	9174
L_45(65)av	15585
L_45(75)av	13517
L_45(85)av	9379

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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	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	403	403	403	403	403	403	403	403	403	403	404	403	403	403	403	403	403	403	403
5	401	401	401	401	401	401	401	401	401	401	402	402	402	401	401	401	401	401	401
10	395	395	395	395	395	395	395	395	395	396	396	396	396	396	395	395	395	395	395
15	385	385	385	386	386	386	386	386	386	385	386	386	386	387	386	386	386	386	385
20	372	372	372	373	373	373	372	373	372	373	373	373	374	373	373	373	373	373	372
25	356	356	356	356	356	356	356	356	356	357	357	357	358	357	357	357	357	356	356
30	336	337	336	337	337	337	337	337	337	337	337	338	339	338	338	338	338	337	337
35	314	315	315	315	315	315	315	315	315	315	315	316	317	316	316	316	315	315	314
40	290	290	290	290	290	290	290	290	291	291	291	291	293	292	292	291	291	290	290
45	263	263	264	264	264	263	264	264	264	264	264	265	266	266	265	265	264	264	264
50	235	235	235	235	235	235	235	235	236	236	236	236	238	237	237	236	236	235	235
55	204	204	205	205	205	205	205	205	206	206	206	206	207	207	207	206	206	205	205
60	173	173	173	173	173	173	173	173	174	174	174	174	175	175	174	174	173	173	172
65	140	140	140	140	140	140	141	141	141	142	142	142	143	143	142	141	141	140	140
70	107	107	107	107	107	107	107	108	108	108	109	109	110	109	109	108	107	107	106
75	73.9	74.2	74.2	74.2	74.3	74.3	74.5	74.8	75.2	75.6	76.0	76.1	77.1	76.8	76.1	75.5	74.8	74.1	73.7
80	43.1	43.3	43.4	43.4	43.4	43.5	43.6	43.9	44.2	44.7	45.0	45.2	46.4	46.0	45.5	44.9	44.3	43.6	43.2
85	16.3	16.5	16.7	16.8	16.9	17.0	17.1	17.4	17.7	17.9	18.1	18.2	19.3	19.1	18.7	18.2	17.8	17.3	17.1
90	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.06	0.08	0.08	0.06	0.09	0.09	0.09	0.08	0.08	0.08	0.08
95	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.10
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	0.12	0.12	0.12	0.12	0.12	0.12	0.12
105	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.14	0.14	0.14	0.14	0.14	0.15	0.14
110	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.15	0.15	0.15	0.15	0.15
115	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.16	0.16	0.16	0.16	0.16	0.16	0.16
120	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17
125	0.17	0.17	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18
130	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.20	0.21	0.21
135	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.24	0.24	0.23	0.23	0.23	0.23	0.23
140	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.22	0.26	0.26	0.26	0.26	0.26	0.26	0.26
145	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.24	0.23	0.29	0.29	0.29	0.29	0.29	0.29	0.29
150	0.25	0.24	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.24	0.32	0.32	0.32	0.32	0.32	0.32	0.32
155	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.34	0.34	0.34	0.34	0.34	0.34	0.34
160	0.29	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.36	0.36	0.36	0.36	0.36	0.36	0.36
165	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.37	0.37	0.37	0.37	0.37	0.36	0.36
170	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.36	0.36	0.36	0.36	0.36	0.36	0.36
175	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.36	0.36	0.36	0.36	0.36	0.36	0.36
180	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34

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:0.1409A P:15.590W PF:0.9222 Freq:60.00Hz Lamp Flux:1135.19x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG)\ γ (DEG)	285	300	315	330	345														
0	403	403	403	404	403														
5	401	401	401	402	402														
10	395	395	395	396	396														
15	386	386	386	386	386														
20	373	372	372	373	373														
25	356	356	356	357	357														
30	337	337	337	337	338														
35	315	315	315	315	316														
40	290	290	290	291	291														
45	263	263	264	264	265														
50	235	235	235	236	236														
55	205	205	205	205	206														
60	172	172	173	173	173														
65	140	139	140	140	141														
70	106	106	107	107	107														
75	73.5	73.5	73.8	74.3	74.5														
80	43.0	43.0	43.4	43.7	43.9														
85	16.9	16.9	17.0	17.2	17.3														
90	0.07	0.07	0.08	0.08	0.08														
95	0.10	0.10	0.10	0.10	0.10														
100	0.12	0.12	0.12	0.12	0.12														
105	0.14	0.15	0.15	0.15	0.15														
110	0.15	0.16	0.16	0.16	0.16														
115	0.16	0.16	0.16	0.16	0.16														
120	0.17	0.17	0.17	0.17	0.17														
125	0.18	0.18	0.18	0.18	0.18														
130	0.21	0.21	0.21	0.21	0.21														
135	0.23	0.23	0.23	0.23	0.23														
140	0.26	0.26	0.26	0.26	0.26														
145	0.29	0.29	0.29	0.29	0.29														
150	0.32	0.32	0.32	0.32	0.32														
155	0.34	0.34	0.34	0.34	0.34														
160	0.36	0.36	0.36	0.36	0.36														
165	0.36	0.36	0.37	0.36	0.37														
170	0.36	0.36	0.36	0.36	0.36														
175	0.36	0.36	0.36	0.36	0.36														
180	0.34	0.34	0.34	0.34	0.34														

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: