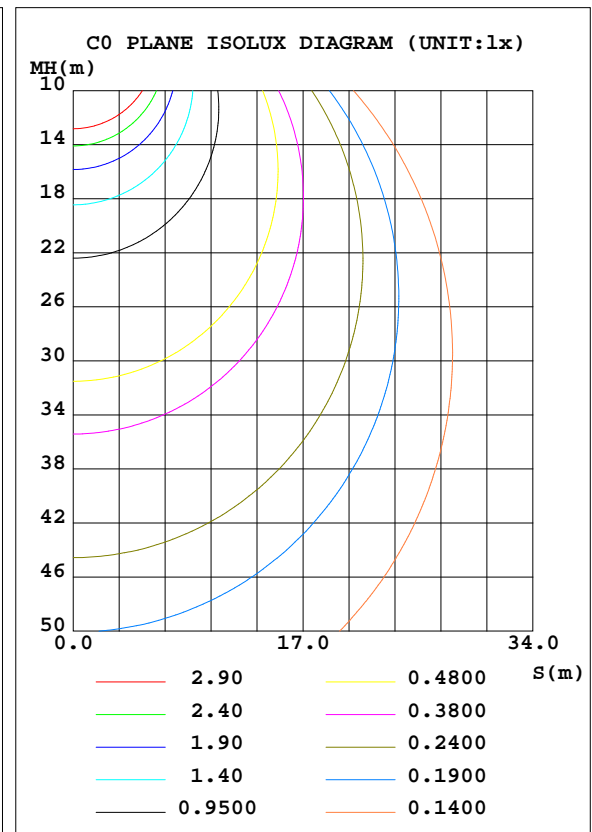
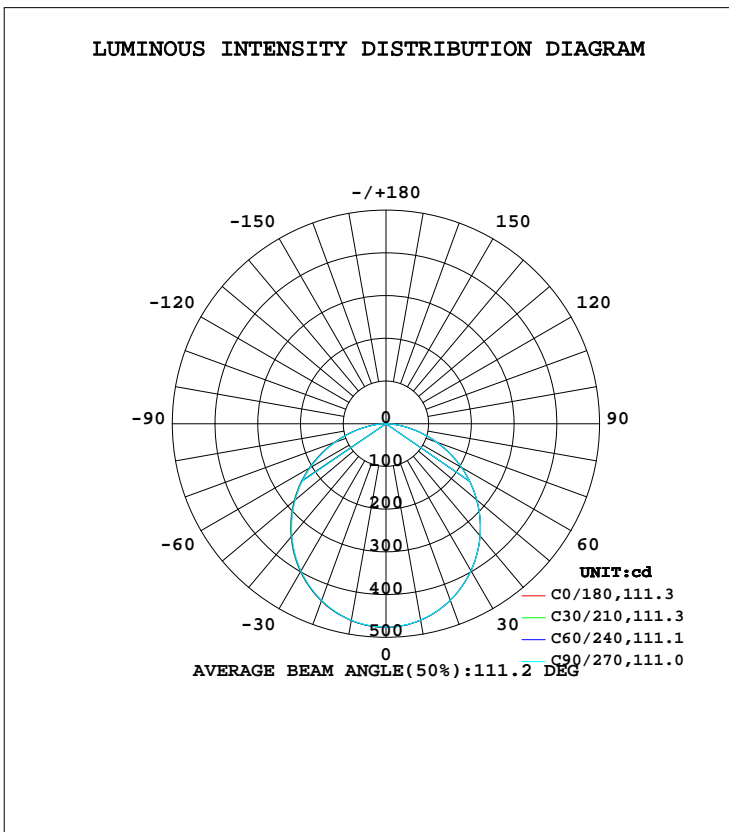


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.58 lm/W			
MODEL	ASD-MPR-7D15CC_4000K	I _{max} (cd)	476.7	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)	1341.2	η UP, DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	1341.22	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	467.0	466.7	466.6	467.5	467.8	467.7	467.0	467.2	0- 10	45.03	45.03	3.36,3.36
20	440.1	440.2	440.1	440.5	441.7	440.9	440.1	440.6	10- 20	128.6	173.7	12.9,12.9
30	397.6	397.8	397.8	398.3	400.1	399.0	397.8	398.4	20- 30	194.1	367.7	27.4,27.4
40	342.4	342.8	343.0	343.4	345.7	344.4	342.7	343.1	30- 40	232.9	600.7	44.8,44.8
50	277.0	277.6	277.9	278.4	280.8	279.2	277.5	277.6	40- 50	240.6	841.2	62.7,62.7
60	203.7	204.2	204.6	205.6	207.9	206.4	204.5	204.6	50- 60	216.7	1058	78.9,78.9
70	125.6	126.2	126.5	127.8	129.7	127.8	125.8	125.9	60- 70	164.4	1222	91.1,91.1
80	50.63	51.10	51.45	52.69	54.69	53.08	51.18	51.29	70- 80	93.54	1316	98.1,98.1
90	0.0476	0.0568	0.1101	0.1462	0.1131	0.0975	0.0884	0.0897	80- 90	24.07	1340	99.9,99.9
100	0.0749	0.0732	0.0722	0.0726	0.1436	0.1444	0.1443	0.1452	90-100	0.0955	1340	99.9,99.9
110	0.1181	0.1162	0.1159	0.1152	0.1813	0.1817	0.1814	0.1847	100-110	0.1382	1340	99.9,99.9
120	0.1757	0.1763	0.1717	0.1717	0.1974	0.1964	0.1971	0.1990	110-120	0.1657	1340	99.9,99.9
130	0.2350	0.2371	0.2321	0.2321	0.2465	0.2434	0.2422	0.2444	120-130	0.1886	1341	99.9,99.9
140	0.2712	0.2703	0.2683	0.2670	0.3098	0.3066	0.3052	0.3066	130-140	0.2052	1341	100,100
150	0.2919	0.2935	0.2896	0.2893	0.3825	0.3785	0.3775	0.3788	140-150	0.1948	1341	100,100
160	0.3402	0.3457	0.3405	0.3435	0.4310	0.4263	0.4257	0.4260	150-160	0.1662	1341	100,100
170	0.3709	0.3787	0.3829	0.3797	0.4278	0.4253	0.4217	0.4214	160-170	0.1121	1341	100,100
180	0.4066	0.4043	0.3980	0.4040	0.4076	0.4066	0.4056	0.4069	170-180	0.0387	1341	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 722 lm

%lum = 53.8%

%lamp = 53.8%

Conical surface Flux(120deg): 1057.9 lm

%lum = 78.9%

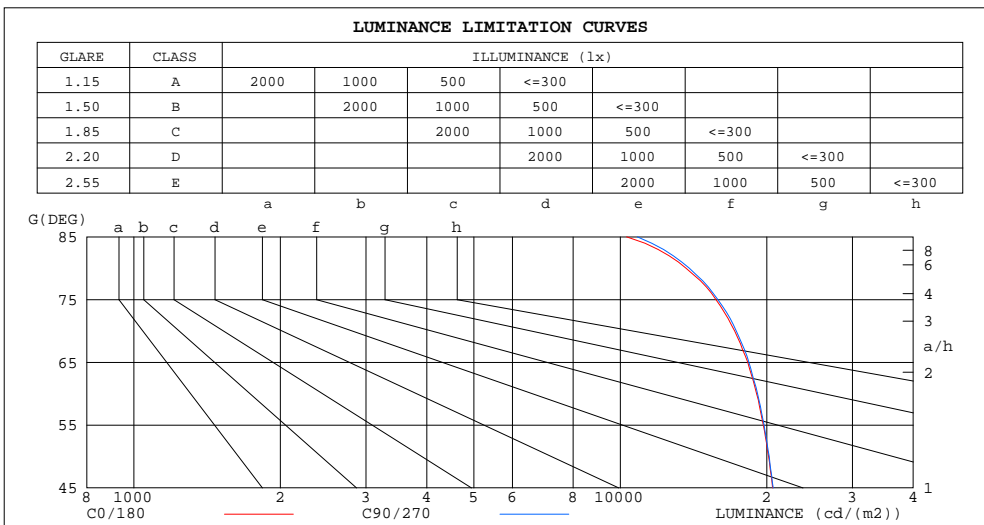
%lamp = 78.9%

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

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:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10300	10839
80	13644	13864
75	15720	15869
70	17177	17311
65	18281	18380
60	19058	19144
55	19674	19747
50	20167	20227
45	20562	20612

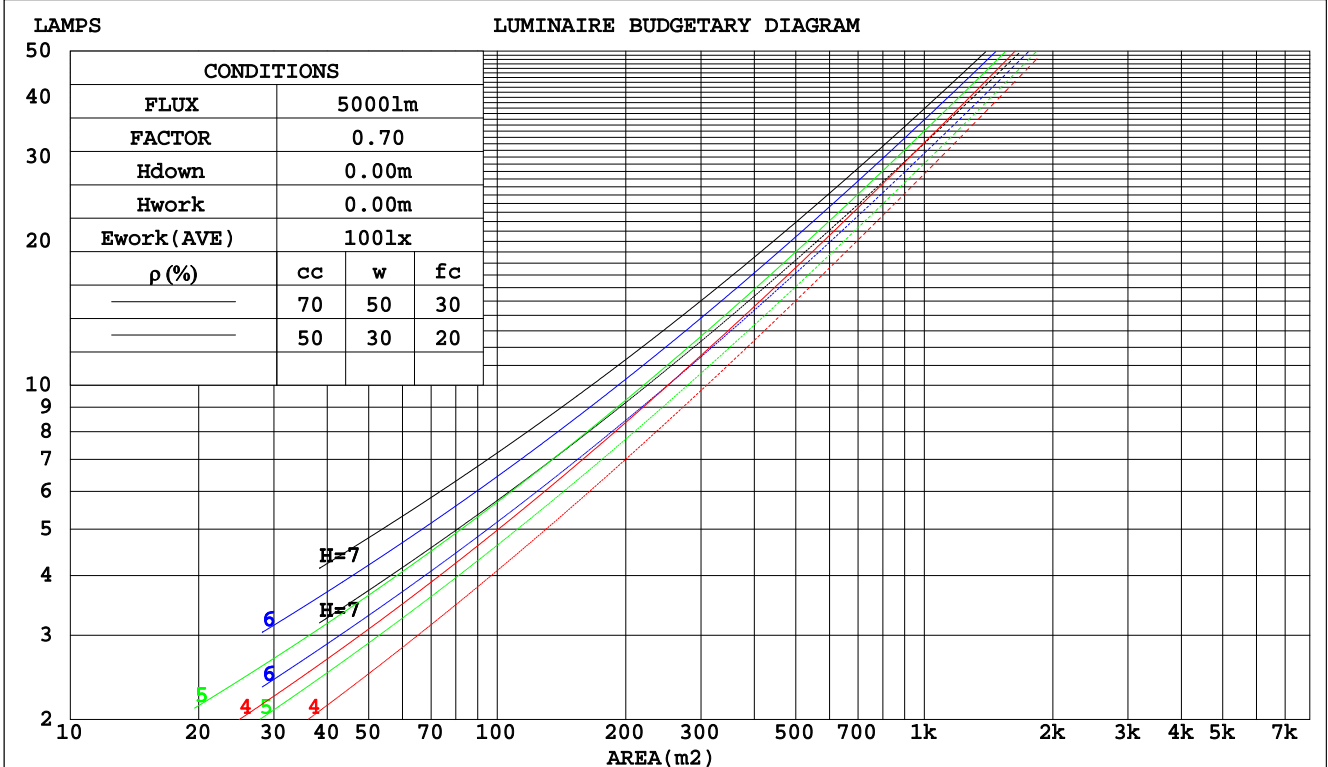
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 May 2023

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	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																
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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_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	.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	.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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm										
NAME:					TYPE:LED			WEIGHT:		
SPEC.:ASD-MPR-7D15CC_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	23.2	24.7	23.5	24.9	25.1	23.2	24.7	23.5	24.9	25.1
3H	24.7	26.1	25.0	26.3	26.6	24.7	26.1	25.0	26.4	26.6
4H	25.3	26.6	25.6	26.9	27.1	25.3	26.6	25.6	26.9	27.1
6H	25.7	26.9	26.0	27.2	27.5	25.7	27.0	26.0	27.2	27.5
8H	25.8	27.0	26.1	27.3	27.6	25.8	27.0	26.2	27.3	27.6
12H	25.8	27.0	26.2	27.3	27.6	25.9	27.0	26.2	27.3	27.6
4H 2H	23.8	25.1	24.1	25.4	25.7	23.8	25.2	24.1	25.4	25.7
3H	25.5	26.7	25.8	27.0	27.3	25.5	26.7	25.9	27.0	27.3
4H	26.2	27.3	26.6	27.6	27.9	26.2	27.3	26.6	27.6	27.9
6H	26.7	27.7	27.1	28.0	28.4	26.7	27.7	27.1	28.0	28.4
8H	26.9	27.7	27.3	28.1	28.5	26.9	27.8	27.3	28.1	28.5
12H	27.0	27.8	27.4	28.2	28.6	27.0	27.8	27.4	28.2	28.6
8H 4H	26.4	27.3	26.9	27.7	28.1	26.5	27.3	26.9	27.7	28.1
6H	27.1	27.8	27.5	28.2	28.7	27.1	27.9	27.6	28.3	28.7
8H	27.3	28.0	27.8	28.4	28.9	27.4	28.0	27.8	28.4	28.9
12H	27.5	28.1	28.0	28.5	29.0	27.5	28.1	28.0	28.5	29.0
12H 4H	26.5	27.3	26.9	27.7	28.1	26.5	27.3	26.9	27.7	28.1
6H	27.2	27.8	27.6	28.2	28.7	27.2	27.8	27.6	28.2	28.7
8H	27.4	28.0	27.9	28.4	28.9	27.4	28.0	27.9	28.5	28.9
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, 1341 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.0)
 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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

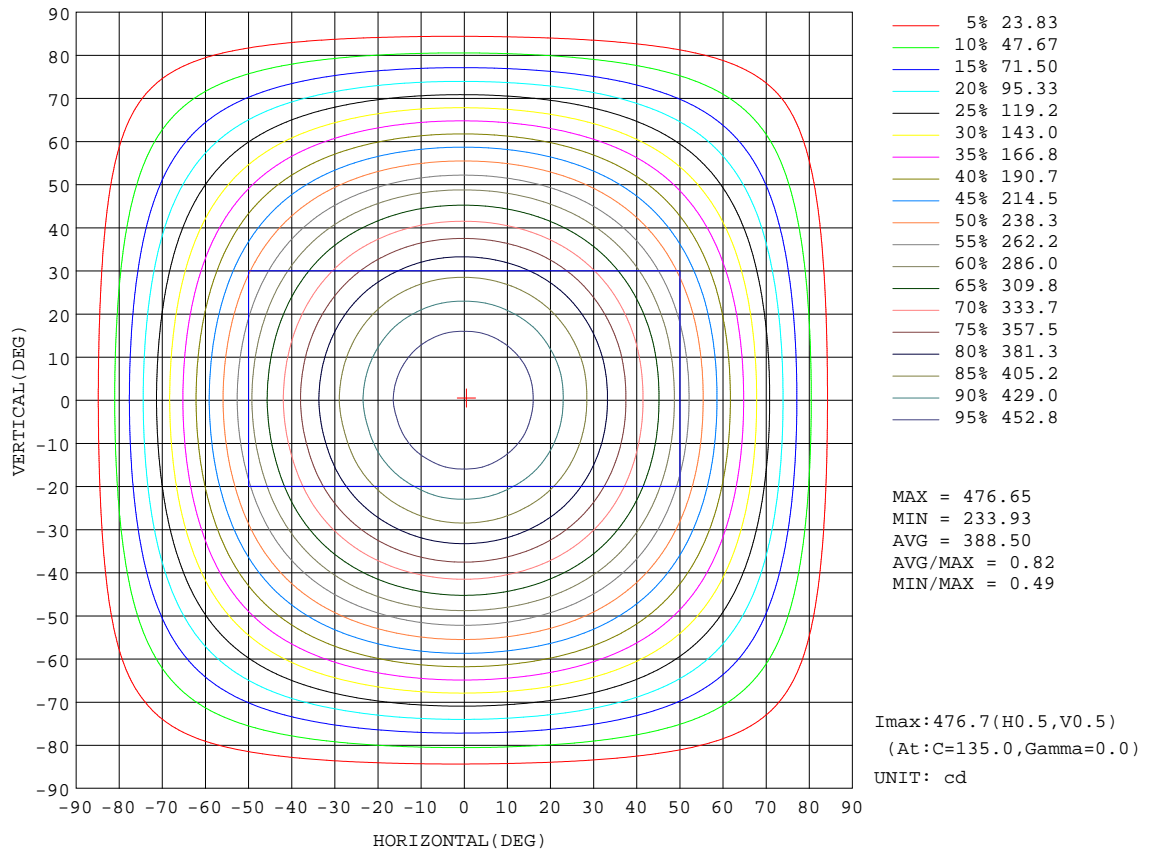
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	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

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:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

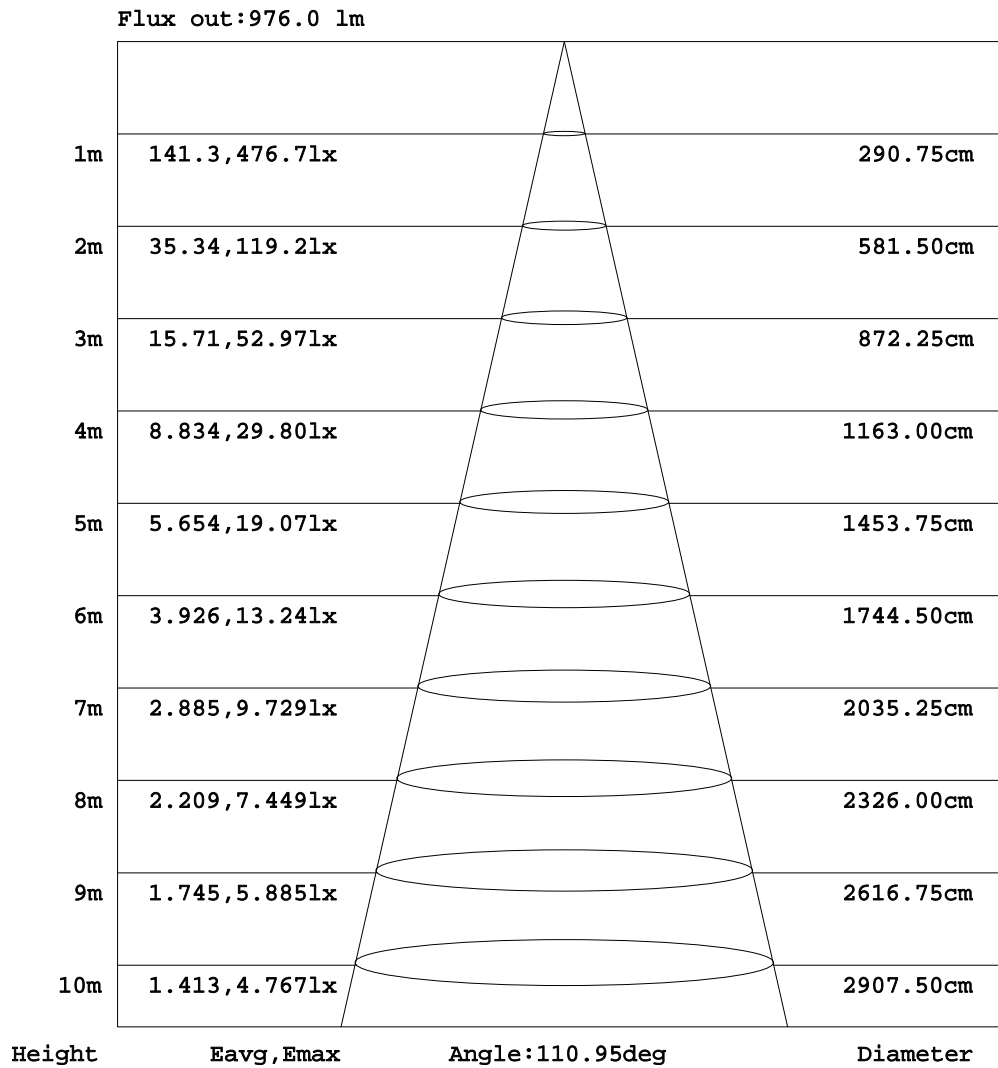


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 May 2023

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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



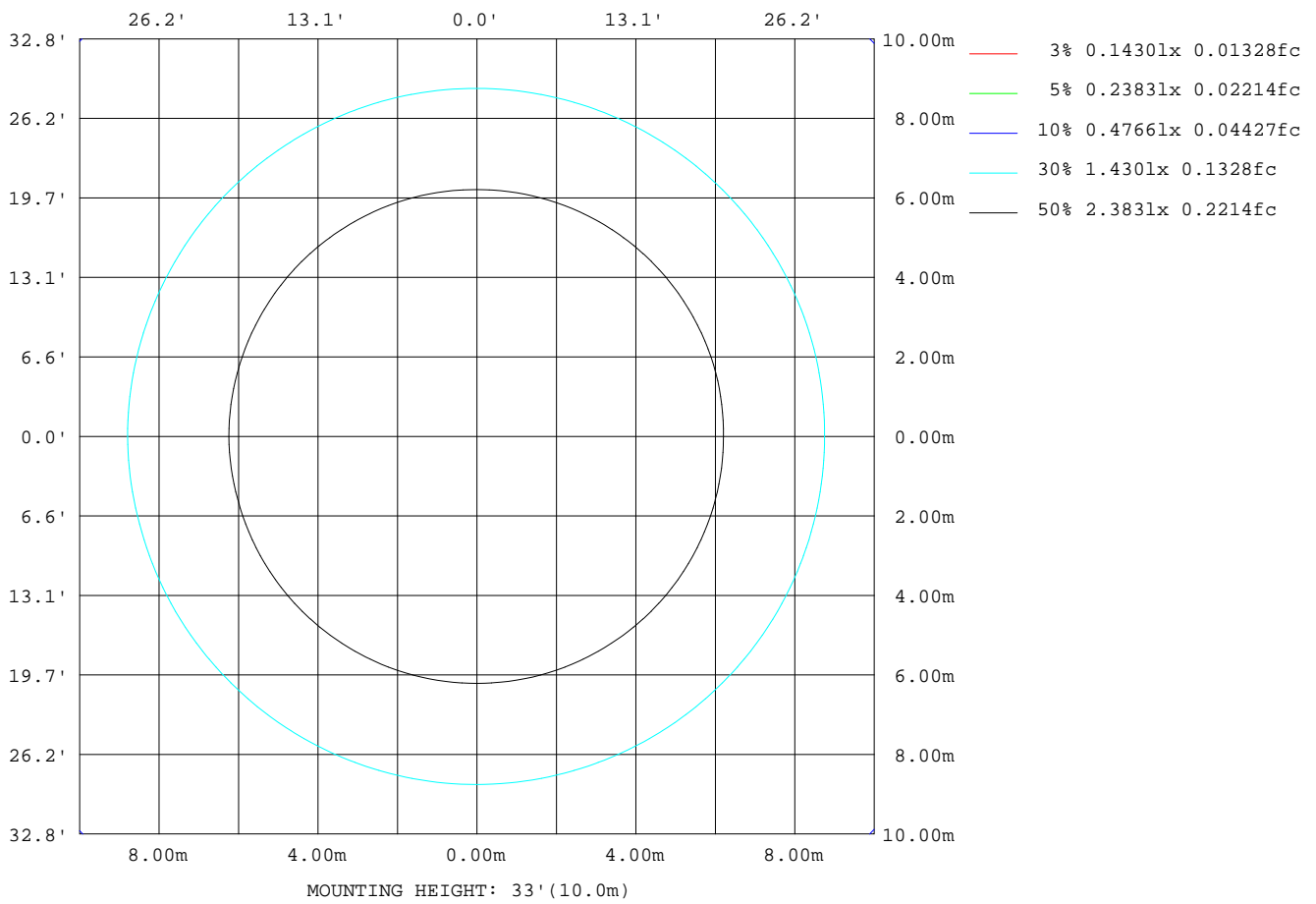
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

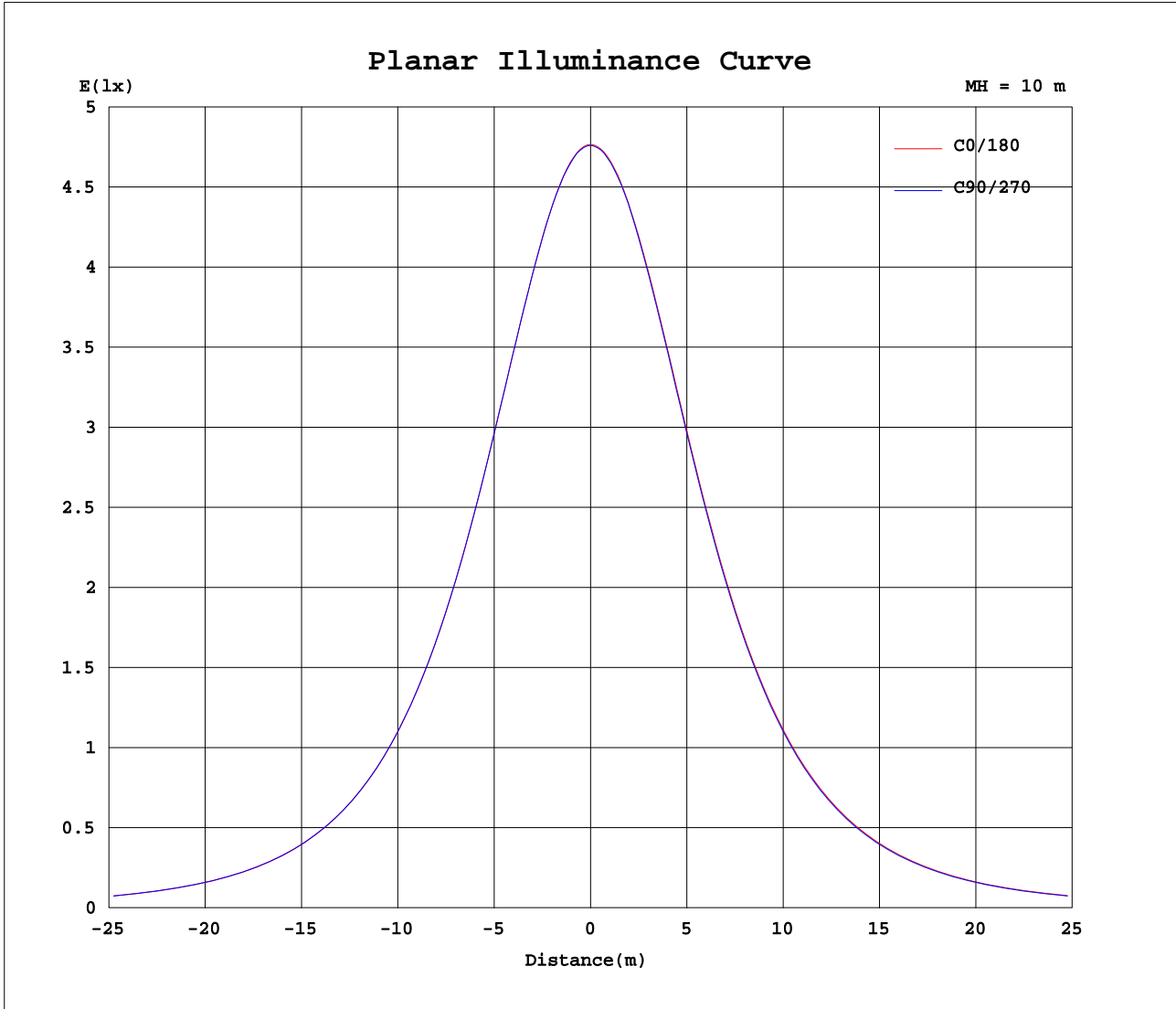
AvgL	cd/m2
L_0~180(65)av	18479
L_0~180(75)av	16095
L_0~180(85)av	11310
L_90~270(65)av	18327
L_90~270(75)av	15810
L_90~270(85)av	10854
L_45(65)av	18402
L_45(75)av	15960
L_45(85)av	11088

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

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:

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

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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_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	477	476	477	476	477	476	476	477	476	477	476	476	477	476	477	476	477	476	476
5	474	474	474	474	474	474	474	474	474	475	474	474	474	474	474	474	474	474	474
10	467	467	467	467	467	467	467	467	467	467	467	467	468	468	467	468	467	468	467
15	456	455	455	456	456	456	455	456	456	456	456	456	457	457	456	457	456	456	455
20	440	440	440	440	440	440	440	440	440	440	441	441	442	441	441	441	441	440	440
25	421	421	421	421	421	421	421	421	421	421	422	422	423	422	422	422	421	421	421
30	398	398	398	398	398	398	398	398	398	398	399	399	400	400	400	399	399	399	398
35	371	372	372	372	372	372	372	372	372	372	373	373	374	374	374	373	373	372	372
40	342	343	343	343	343	343	343	343	343	343	344	344	346	345	345	344	344	343	343
45	311	311	311	311	311	311	311	311	312	312	313	313	314	314	313	313	312	312	311
50	277	277	277	278	277	278	278	278	278	278	279	279	281	280	280	279	278	278	277
55	241	242	242	242	242	242	242	242	242	243	243	243	245	245	244	244	243	242	242
60	204	204	204	204	204	204	205	205	205	206	206	206	208	208	207	206	206	205	205
65	165	165	165	166	166	166	166	166	167	167	167	168	169	168	168	167	166	166	165
70	126	126	126	126	126	126	127	127	127	128	128	128	130	129	129	128	127	126	126
75	87.0	87.4	87.4	87.4	87.7	87.6	87.8	88.2	88.7	89.2	89.4	89.7	91.1	90.8	90.1	89.2	88.4	87.6	87.1
80	50.6	51.0	51.2	51.1	51.2	51.3	51.4	51.7	52.1	52.7	53.0	53.2	54.7	54.5	53.9	53.1	52.4	51.6	51.2
85	19.2	19.4	19.6	19.7	19.9	19.9	20.2	20.5	20.8	21.1	21.3	21.4	23.0	22.7	22.3	21.7	21.2	20.6	20.2
90	0.05	0.05	0.06	0.06	0.06	0.07	0.11	0.08	0.13	0.15	0.11	0.14	0.11	0.11	0.10	0.10	0.09	0.09	0.09
95	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	0.12	0.12	0.12	0.11	0.12
100	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14
105	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.17	0.17	0.17	0.17
110	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.11	0.18	0.18	0.18	0.18	0.18	0.18	0.18
115	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.19	0.19	0.19	0.19	0.19	0.19	0.19
120	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.20	0.20	0.20	0.20	0.20	0.20	0.20
125	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.22	0.21	0.21	0.21	0.21	0.22	0.21
130	0.23	0.23	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.25	0.25	0.25	0.24	0.24	0.24	0.24
135	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.28	0.28	0.28	0.28	0.28	0.28	0.27
140	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.31	0.31	0.31	0.31	0.31	0.31	0.31
145	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.35	0.34	0.34	0.34	0.34	0.34	0.34
150	0.29	0.29	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.38	0.38	0.38	0.38	0.38	0.38	0.38
155	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.41	0.40	0.40	0.40	0.40	0.40	0.40
160	0.34	0.34	0.34	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.43	0.43	0.43	0.43	0.43	0.43	0.43
165	0.36	0.35	0.36	0.36	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.44	0.44	0.43	0.43	0.43	0.43	0.43
170	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.43	0.43	0.43	0.43	0.42	0.42	0.42
175	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42
180	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.41	0.41	0.41	0.41	0.40	0.41	0.41

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:0.1476A P:16.440W PF:0.9279 Freq:60.00Hz Lamp Flux:1341.22x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-7D15CC_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	477	476	477	476	476														
5	474	474	474	474	474														
10	467	467	467	467	467														
15	456	456	456	456	456														
20	440	440	441	441	441														
25	421	421	421	421	421														
30	398	398	398	398	399														
35	372	372	372	372	373														
40	343	343	343	343	344														
45	311	311	312	312	312														
50	277	278	278	278	279														
55	242	242	242	242	243														
60	204	204	205	205	205														
65	165	165	165	166	166														
70	126	126	126	126	127														
75	87.0	87.1	87.3	87.7	88.2														
80	50.9	51.0	51.3	51.7	52.0														
85	20.0	20.0	20.1	20.3	20.6														
90	0.09	0.09	0.09	0.09	0.09														
95	0.12	0.12	0.12	0.12	0.12														
100	0.15	0.15	0.15	0.15	0.15														
105	0.17	0.17	0.17	0.17	0.17														
110	0.18	0.18	0.18	0.18	0.18														
115	0.19	0.19	0.19	0.19	0.19														
120	0.20	0.20	0.20	0.20	0.20														
125	0.21	0.22	0.22	0.22	0.22														
130	0.24	0.24	0.24	0.24	0.24														
135	0.28	0.28	0.28	0.28	0.28														
140	0.31	0.31	0.31	0.31	0.31														
145	0.34	0.34	0.34	0.34	0.34														
150	0.38	0.38	0.38	0.38	0.38														
155	0.40	0.40	0.40	0.40	0.40														
160	0.42	0.43	0.43	0.43	0.43														
165	0.43	0.43	0.43	0.43	0.43														
170	0.42	0.42	0.42	0.42	0.43														
175	0.42	0.42	0.42	0.42	0.42														
180	0.41	0.41	0.41	0.41	0.41														

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: