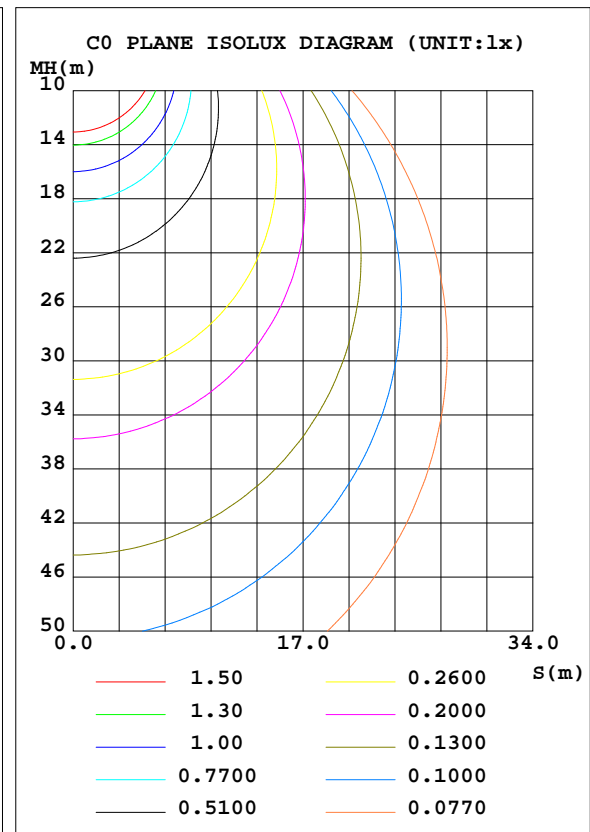
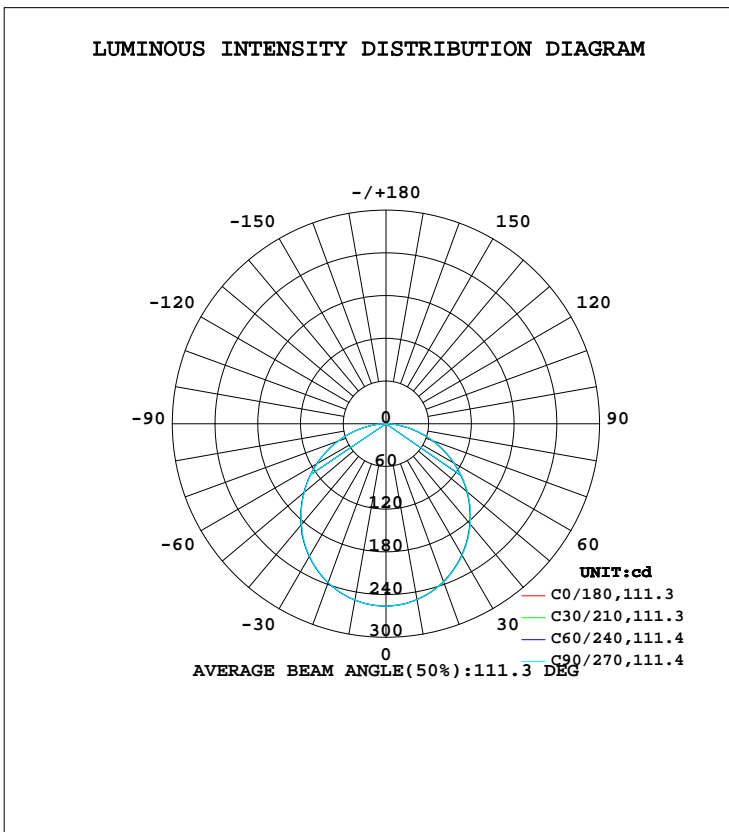


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.26lx1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.00 lm/W			
MODEL	ASD-MPR-5D10CC_5000K	I _{max} (cd)	256.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	727.26	η UP, DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	727.261	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.1
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	250.5	250.6	251.1	251.5	251.4	251.5	251.2	251.1	0- 10	24.21	24.21	3.33,3.33
20	236.0	235.8	236.6	237.3	237.7	237.7	237.1	236.9	10- 20	69.18	93.39	12.8,12.8
30	213.0	213.2	213.9	214.8	215.4	215.3	214.6	214.2	20- 30	104.4	197.8	27.2,27.2
40	183.2	183.4	184.3	185.2	185.4	185.2	184.5	183.8	30- 40	125.2	323.0	44.4,44.4
50	148.2	148.5	149.5	150.3	150.7	150.5	149.7	148.9	40- 50	129.2	452.2	62.2,62.2
60	109.4	110.2	111.0	111.6	112.2	112.2	111.3	110.3	50- 60	116.8	569.0	78.2,78.2
70	68.58	69.73	70.63	70.79	71.71	72.02	71.22	69.88	60- 70	90.05	659.0	90.6,90.6
80	28.69	30.06	31.00	31.02	31.85	32.02	31.25	29.86	70- 80	53.20	712.2	97.9,97.9
90	0.0245	0.0282	0.0326	0.0324	0.0668	0.0574	0.0510	0.0500	80- 90	14.32	726.5	99.9,99.9
100	0.0410	0.0410	0.0417	0.0397	0.0769	0.0782	0.0795	0.0799	90-100	0.0525	726.6	99.9,99.9
110	0.0643	0.0676	0.0653	0.0627	0.0972	0.0985	0.0999	0.1012	100-110	0.0762	726.7	99.9,99.9
120	0.0965	0.1001	0.0979	0.0959	0.1048	0.1067	0.1064	0.1090	110-120	0.0914	726.8	99.9,99.9
130	0.1284	0.1353	0.1320	0.1300	0.1311	0.1307	0.1307	0.1344	120-130	0.1040	726.9	99.9,99.9
140	0.1474	0.1537	0.1531	0.1491	0.1659	0.1643	0.1649	0.1656	130-140	0.1127	727.0	100,100
150	0.1576	0.1596	0.1613	0.1606	0.2046	0.2027	0.2014	0.2040	140-150	0.1065	727.1	100,100
160	0.1852	0.1851	0.1872	0.1875	0.2316	0.2286	0.2280	0.2289	150-160	0.0900	727.2	100,100
170	0.2046	0.2036	0.2050	0.2040	0.2306	0.2302	0.2285	0.2286	160-170	0.0604	727.2	100,100
180	0.2161	0.2161	0.2181	0.2184	0.2187	0.2181	0.2181	0.2132	170-180	0.0208	727.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 388.17 lm

%lum = 53.4%

%lamp = 53.4%

Conical surface Flux(120deg): 568.98 lm

%lum = 78.2%

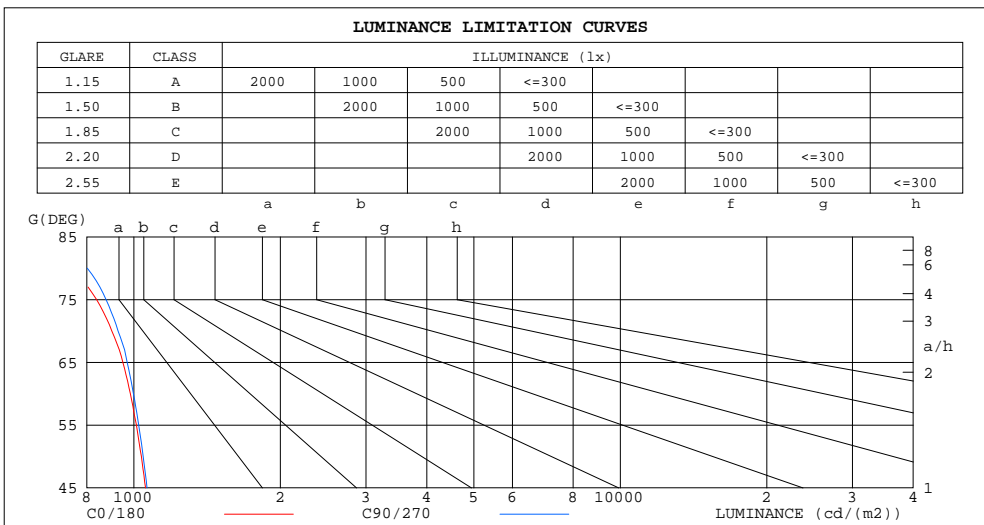
%lamp = 78.2%

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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	556	655
80	742	802
75	838	877
70	901	928
65	949	968
60	983	998
55	1012	1023
50	1036	1045
45	1057	1064

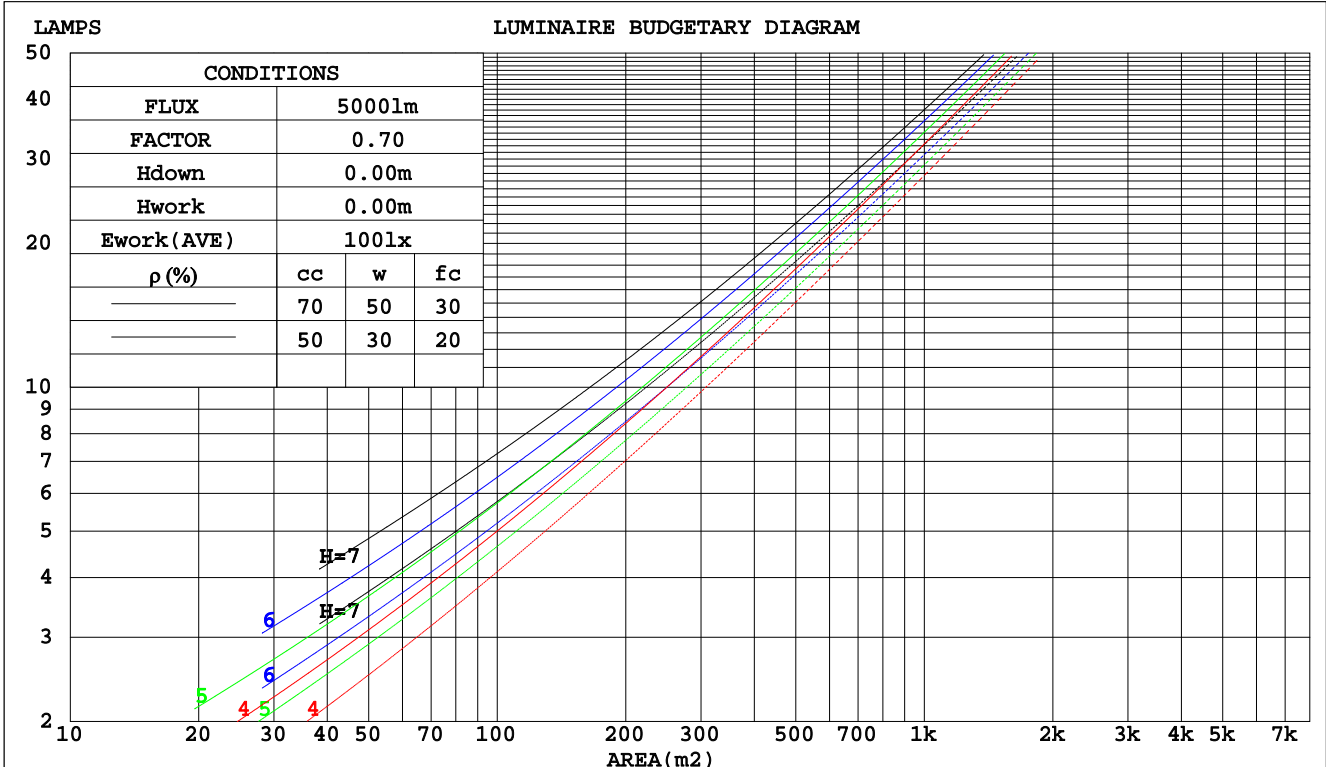
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 May 2023

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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.26lx1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_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																
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	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_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	.312	.178	.056	.305	.174	.055	.292	.167	.053	.279	.161	.052	.268	.155	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.144	.045	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.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	.102	.079	.059	.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	.158	.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	.052	.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	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.118	.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: 25.0DEG
 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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm										
NAME:					TYPE:LED			WEIGHT:		
SPEC.:ASD-MPR-5D10CC_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	12.9	14.4	13.1	14.6	14.8	12.9	14.4	13.2	14.6	14.9
3H	14.4	15.8	14.7	16.0	16.3	14.5	15.9	14.8	16.1	16.4
4H	15.0	16.4	15.3	16.6	16.9	15.1	16.5	15.5	16.7	17.0
6H	15.4	16.7	15.8	17.0	17.3	15.6	16.9	15.9	17.2	17.4
8H	15.6	16.8	15.9	17.1	17.4	15.8	17.0	16.1	17.3	17.6
12H	15.6	16.8	16.0	17.1	17.4	15.8	17.0	16.2	17.3	17.6
4H 2H	13.5	14.8	13.8	15.1	15.3	13.5	14.9	13.9	15.1	15.4
3H	15.2	16.4	15.6	16.7	17.0	15.3	16.5	15.7	16.8	17.1
4H	16.0	17.0	16.3	17.3	17.7	16.1	17.1	16.4	17.5	17.8
6H	16.5	17.5	16.9	17.8	18.2	16.7	17.6	17.1	18.0	18.4
8H	16.7	17.6	17.1	17.9	18.3	16.9	17.8	17.3	18.1	18.5
12H	16.8	17.6	17.2	18.0	18.4	17.0	17.8	17.4	18.2	18.6
8H 4H	16.2	17.1	16.7	17.5	17.9	16.3	17.2	16.8	17.6	18.0
6H	16.9	17.7	17.4	18.1	18.5	17.1	17.8	17.5	18.2	18.7
8H	17.2	17.9	17.7	18.3	18.7	17.4	18.0	17.9	18.5	18.9
12H	17.4	17.9	17.9	18.4	18.9	17.6	18.2	18.1	18.6	19.1
12H 4H	16.3	17.1	16.7	17.5	17.9	16.4	17.2	16.8	17.6	18.0
6H	17.0	17.7	17.5	18.1	18.6	17.2	17.8	17.6	18.2	18.7
8H	17.3	17.9	17.8	18.3	18.8	17.5	18.1	18.0	18.5	19.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 727.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.1)
 Area: 0.222548 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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

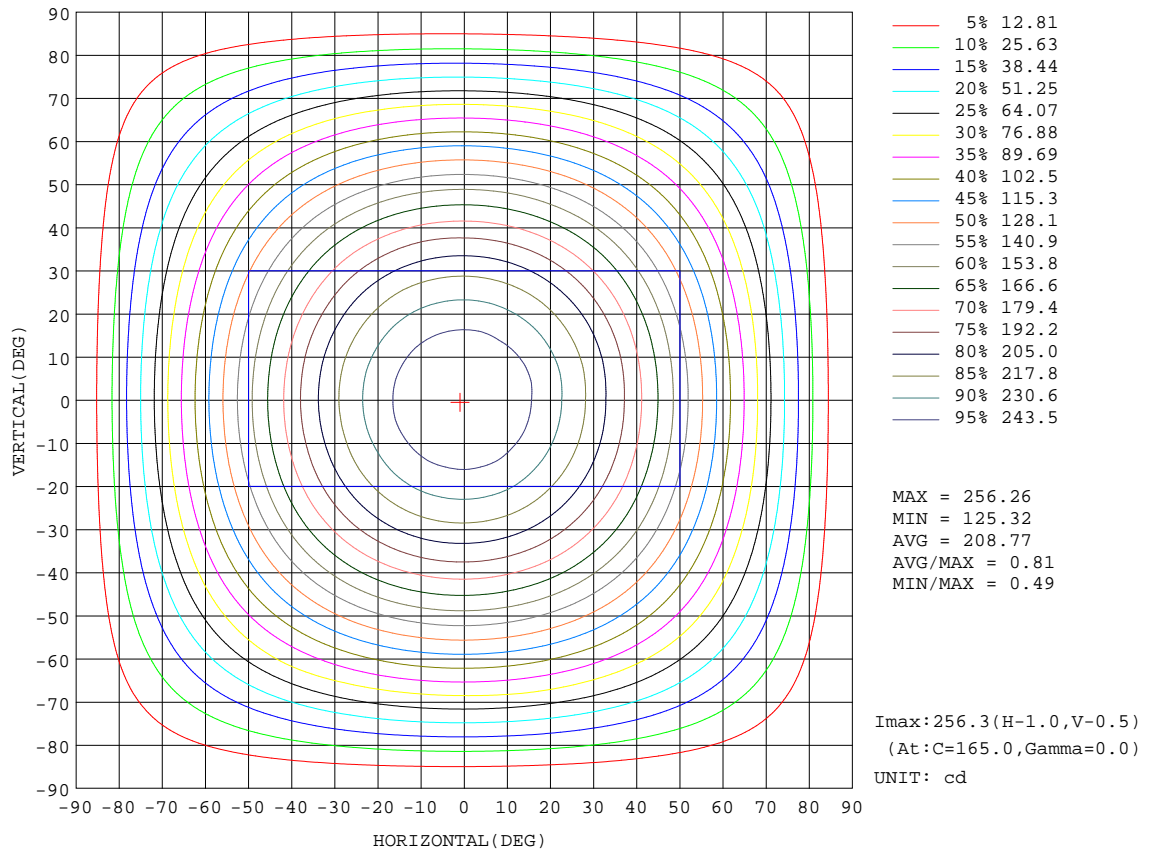
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.26lx1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

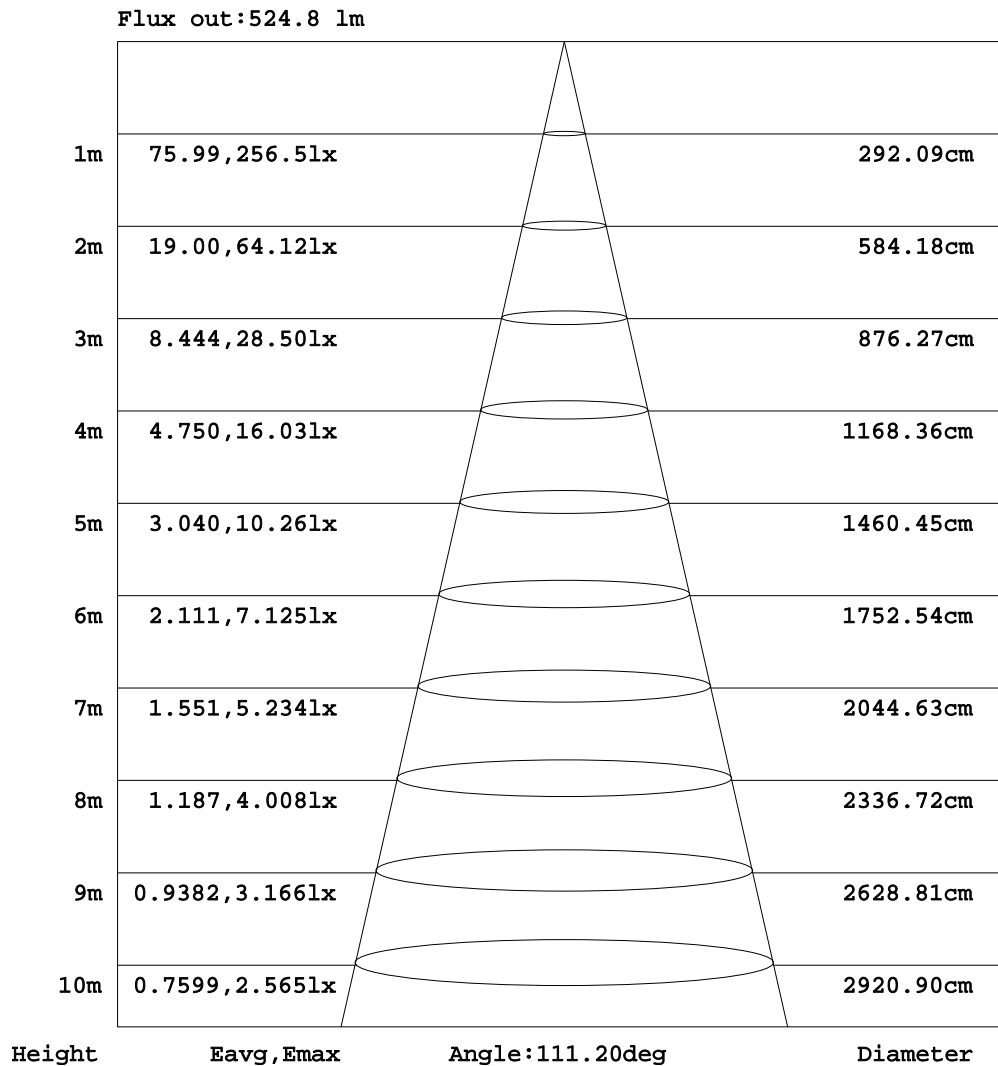


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 May 2023

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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.26lx1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



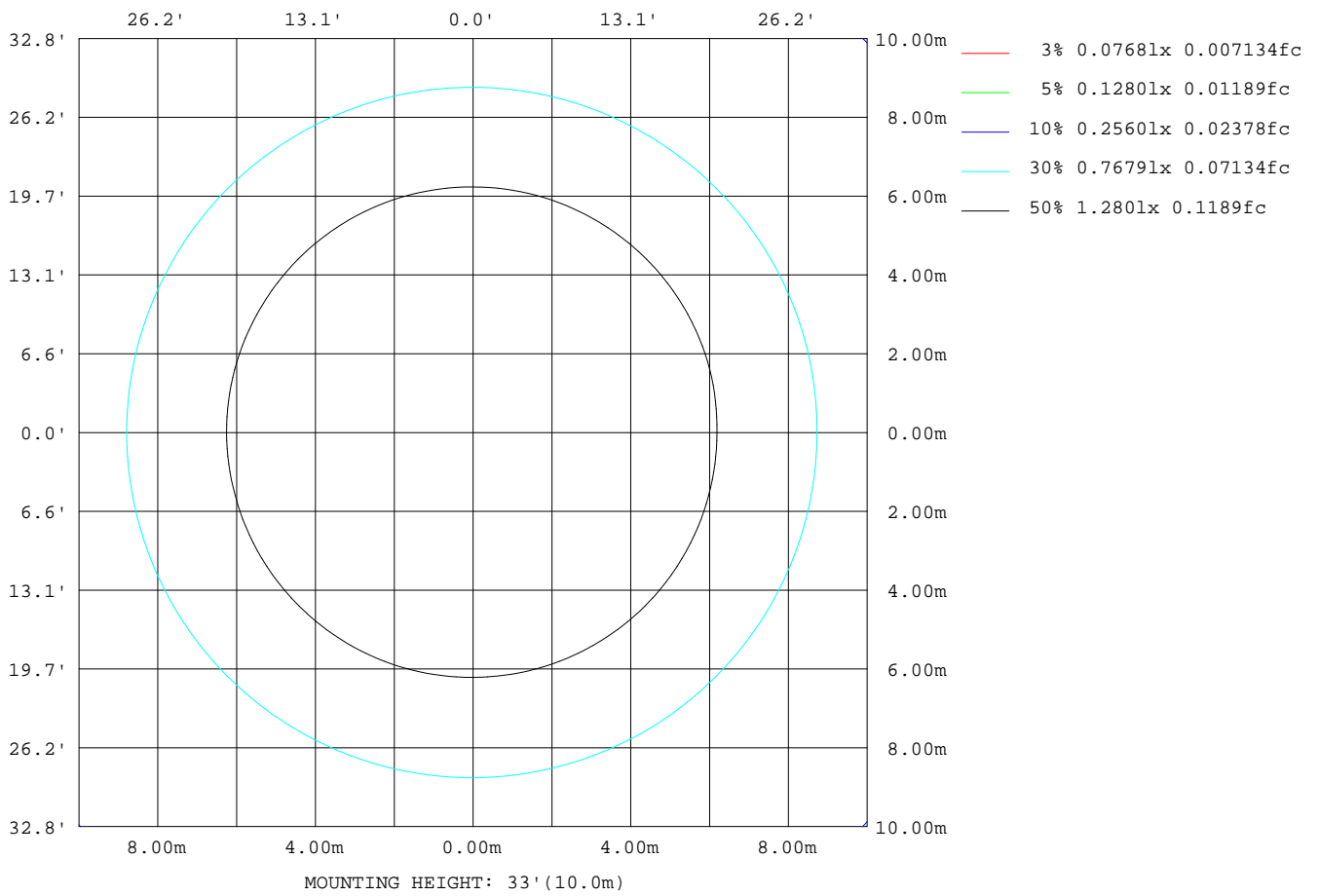
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_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:

LED Avg.L Report

Test:U:120.00V I:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

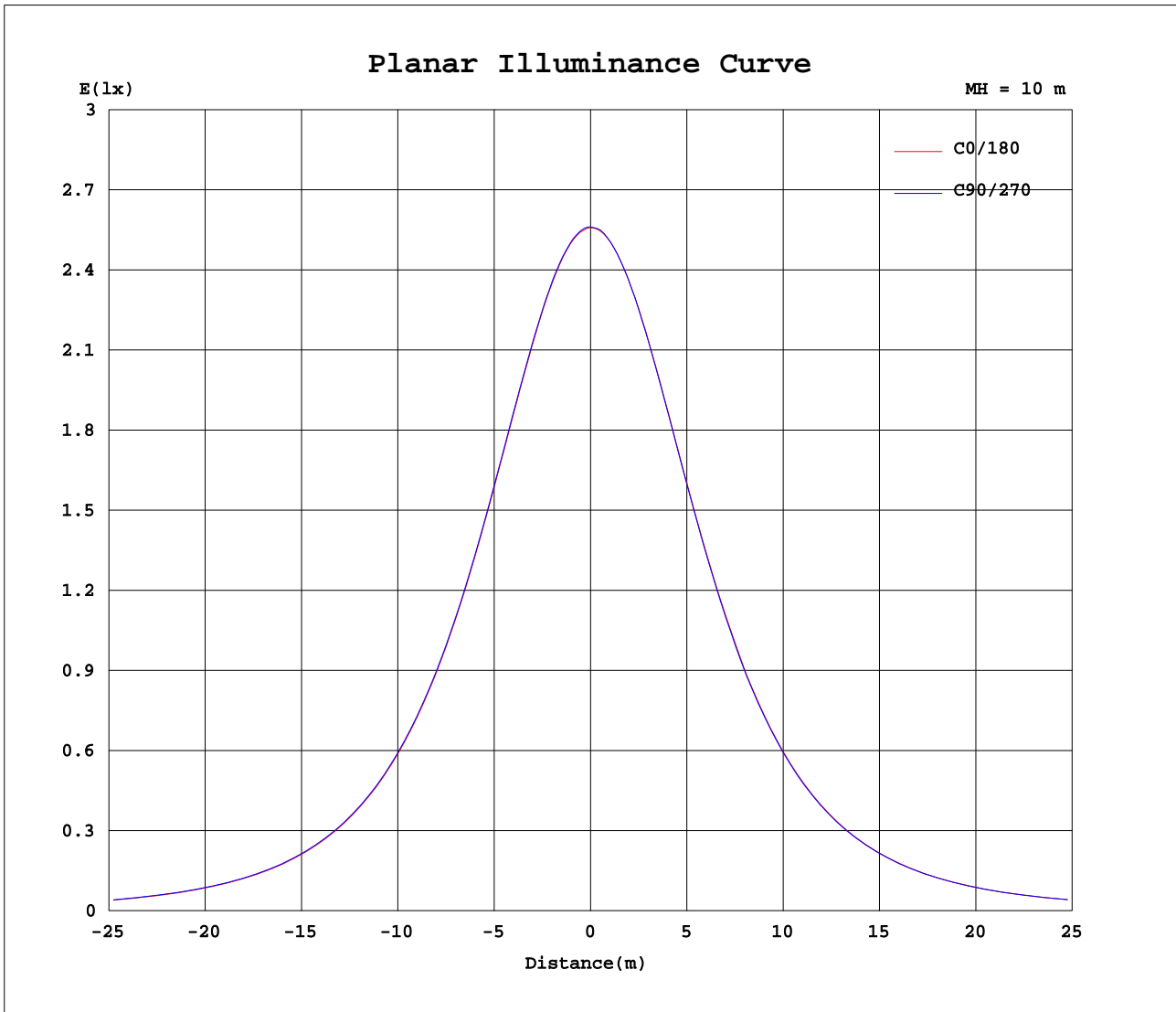
AvgL	cd/m2
L_0~180(65)av	964
L_0~180(75)av	865
L_0~180(85)av	628
L_90~270(65)av	970
L_90~270(75)av	881
L_90~270(85)av	654
L_45(65)av	968
L_45(75)av	874
L_45(85)av	641

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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.26lx1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_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	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
5	254	254	254	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
10	250	250	251	251	251	251	251	251	251	251	251	252	251	251	252	252	252	252	251
15	244	244	244	244	245	245	245	245	245	246	245	246	246	246	246	246	246	246	245
20	236	236	236	236	236	236	237	237	237	237	237	238	238	238	238	238	238	237	237
25	225	225	225	225	226	226	226	226	227	227	227	227	227	228	227	227	227	227	227
30	213	213	213	213	213	214	214	214	215	215	215	215	215	216	215	215	215	215	215
35	199	199	199	199	199	200	200	200	200	201	201	201	202	202	201	201	201	201	201
40	183	183	183	183	184	184	184	185	185	185	185	185	185	185	185	185	185	185	184
45	166	166	166	167	167	167	168	168	168	168	168	168	169	169	168	168	168	168	168
50	148	148	148	149	149	149	149	150	150	150	150	150	151	151	150	150	150	150	150
55	129	129	129	130	130	130	131	131	131	131	131	131	132	132	132	132	132	131	131
60	109	109	110	110	111	111	111	111	111	112	112	112	112	112	112	112	112	112	111
65	89.3	89.5	90.0	90.3	90.7	91.0	91.1	91.3	91.4	91.5	91.6	91.6	92.1	92.2	92.2	92.3	92.1	91.7	91.4
70	68.6	68.9	69.3	69.7	70.2	70.5	70.6	70.7	70.7	70.8	70.8	71.0	71.7	71.9	71.9	72.0	71.9	71.6	71.2
75	48.3	48.6	49.1	49.6	50.0	50.3	50.5	50.6	50.6	50.5	50.5	50.5	51.4	51.6	51.7	51.7	51.6	51.4	51.0
80	28.7	29.1	29.6	30.1	30.5	30.8	31.0	31.1	31.1	31.0	31.0	31.0	31.8	32.0	32.0	32.0	31.9	31.7	31.2
85	10.8	11.1	11.5	11.8	12.2	12.5	12.7	12.8	12.9	12.9	12.9	12.9	13.6	13.5	13.5	13.4	13.3	13.0	12.7
90	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.04	0.07	0.06	0.06	0.06	0.06	0.05	0.05
95	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06
100	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08
105	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.09	0.09	0.09	0.09	0.09	0.09	0.09
110	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.10	0.10	0.10	0.10	0.10	0.10	0.10
115	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10
120	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11
125	0.11	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12
130	0.13	0.13	0.13	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
135	0.14	0.14	0.14	0.15	0.15	0.14	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15
140	0.15	0.15	0.15	0.15	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.16	0.16	0.16	0.16	0.17	0.16
145	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.19	0.18	0.18	0.18	0.18	0.18	0.18
150	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.20	0.20	0.20	0.20	0.20	0.20	0.20
155	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.22	0.22	0.22	0.22	0.22	0.22	0.22
160	0.19	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.23	0.23	0.23	0.23	0.23	0.23	0.23
165	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.24	0.24	0.24	0.23	0.23	0.23	0.23
170	0.20	0.20	0.20	0.20	0.20	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.23	0.23	0.23	0.23	0.23	0.23	0.23
175	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.23	0.23	0.23	0.23	0.23	0.23	0.23
180	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22

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:0.0900A P:10.540W PF:0.9758 Freq:60.00Hz Lamp Flux:727.261x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-5D10CC_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	256	256	256	256	256														
5	255	255	255	255	255														
10	251	251	251	251	251														
15	245	245	245	245	245														
20	237	237	237	237	237														
25	227	227	226	226	226														
30	215	214	214	214	214														
35	201	200	200	200	200														
40	184	184	184	184	184														
45	167	167	167	167	167														
50	149	149	149	149	149														
55	131	130	130	130	130														
60	111	111	110	110	110														
65	91.1	90.7	90.3	90.1	90.0														
70	70.8	70.3	69.9	69.6	69.5														
75	50.4	50.0	49.6	49.2	49.1														
80	30.8	30.3	29.9	29.6	29.5														
85	12.3	11.9	11.6	11.5	11.4														
90	0.05	0.05	0.05	0.05	0.05														
95	0.06	0.06	0.06	0.06	0.06														
100	0.08	0.08	0.08	0.08	0.08														
105	0.09	0.09	0.10	0.09	0.09														
110	0.10	0.10	0.10	0.10	0.10														
115	0.10	0.10	0.11	0.11	0.11														
120	0.11	0.11	0.11	0.11	0.11														
125	0.12	0.12	0.12	0.12	0.12														
130	0.13	0.13	0.13	0.13	0.13														
135	0.15	0.15	0.15	0.15	0.15														
140	0.17	0.17	0.17	0.17	0.17														
145	0.19	0.18	0.19	0.19	0.19														
150	0.20	0.20	0.20	0.20	0.20														
155	0.22	0.22	0.22	0.22	0.22														
160	0.23	0.23	0.23	0.23	0.23														
165	0.23	0.23	0.23	0.23	0.23														
170	0.23	0.23	0.23	0.23	0.23														
175	0.23	0.23	0.23	0.23	0.23														
180	0.22	0.21	0.21	0.21	0.21														

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: