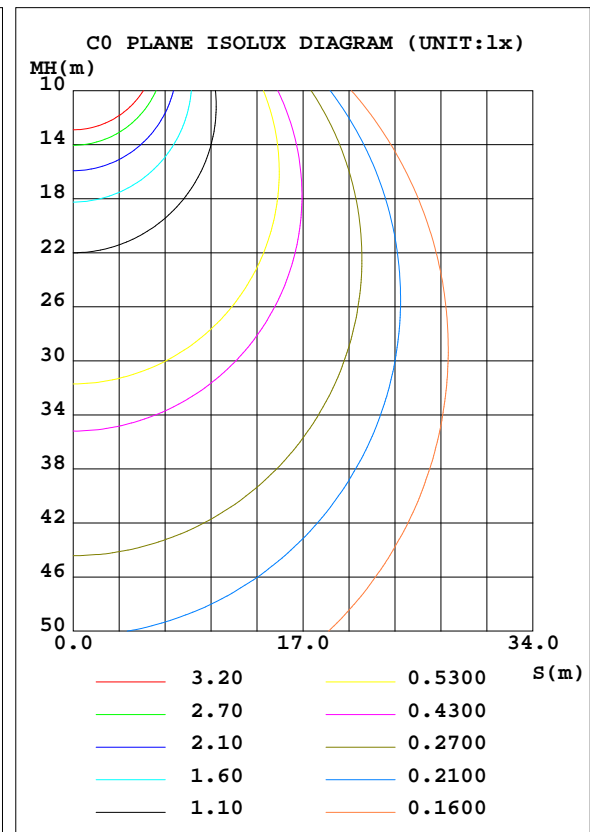
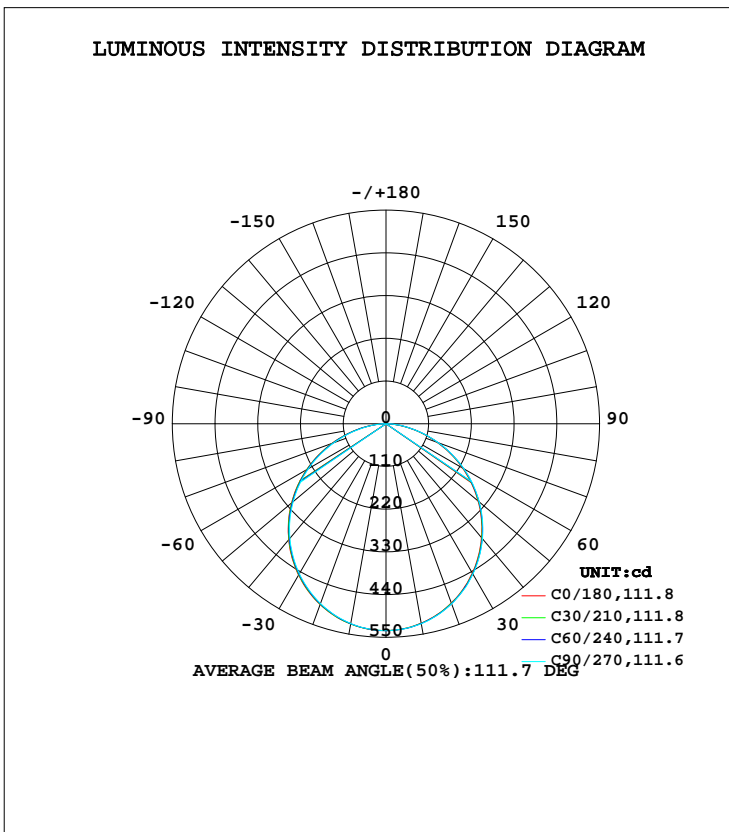


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.88 lm/W			
MODEL	ASD-MPR-9D18CC_5000K	I _{max} (cd)	533.0	S/MH(C0/180)	1.26
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1509.0	η UP, DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	1508.99	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	521.5	522.2	522.9	523.0	523.3	523.1	522.3	521.7	0- 10	50.37	50.37	3.34,3.34
20	491.4	492.7	493.7	494.7	495.5	494.5	492.8	491.8	10- 20	144.0	194.4	12.9,12.9
30	444.4	446.0	447.3	448.3	450.2	448.2	446.1	444.8	20- 30	217.6	412.0	27.3,27.3
40	382.5	385.0	386.8	387.8	389.7	388.0	384.8	383.0	30- 40	261.5	673.5	44.6,44.6
50	309.4	311.8	313.7	315.0	317.7	315.3	311.9	310.0	40- 50	270.6	944.1	62.6,62.6
60	227.4	230.1	231.6	233.0	235.9	233.8	230.2	227.9	50- 60	244.1	1188	78.7,78.7
70	139.8	142.6	143.6	144.8	147.8	146.1	141.7	139.3	60- 70	185.5	1374	91,91
80	56.35	58.73	59.02	59.67	63.64	62.44	58.10	55.83	70- 80	105.8	1479	98,98
90	0.0552	0.1502	0.1264	0.1320	0.1622	0.1250	0.1071	0.1026	80- 90	28.04	1508	99.9,99.9
100	0.0854	0.0843	0.0817	0.0811	0.1601	0.1619	0.1636	0.1652	90-100	0.1086	1508	99.9,99.9
110	0.1358	0.1329	0.1303	0.1291	0.2024	0.2043	0.2060	0.2080	100-110	0.1561	1508	99.9,99.9
120	0.2015	0.1975	0.1954	0.1947	0.2197	0.2221	0.2227	0.2257	110-120	0.1872	1508	99.9,99.9
130	0.2698	0.2655	0.2659	0.2647	0.2747	0.2755	0.2750	0.2790	120-130	0.2136	1508	99.9,99.9
140	0.3100	0.3054	0.3067	0.3053	0.3462	0.3474	0.3506	0.3536	130-140	0.2334	1508	100,100
150	0.3317	0.3281	0.3316	0.3326	0.4278	0.4283	0.4321	0.4342	140-150	0.2220	1509	100,100
160	0.3878	0.3802	0.3836	0.3859	0.4845	0.4828	0.4776	0.4881	150-160	0.1886	1509	100,100
170	0.4253	0.4191	0.4264	0.4253	0.4821	0.4831	0.4759	0.4850	160-170	0.1264	1509	100,100
180	0.4530	0.4539	0.4558	0.4568	0.4578	0.4498	0.4506	0.4483	170-180	0.0436	1509	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 809.91 lm

%lum = 53.7%

%lamp = 53.7%

Conical surface Flux(120deg): 1188.2 lm

%lum = 78.7%

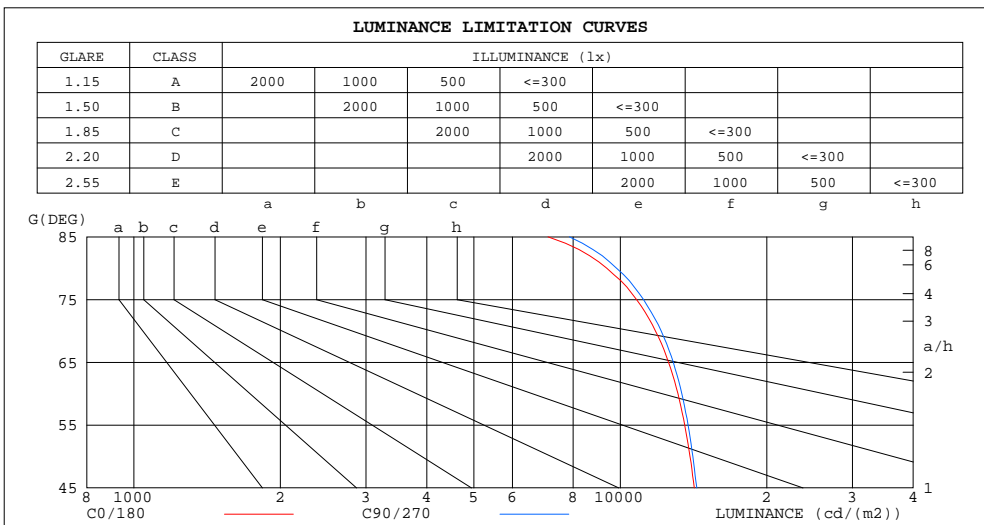
%lamp = 78.7%

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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7103	7862
80	9374	9818
75	10798	11162
70	11805	12131
65	12563	12851
60	13135	13383
55	13567	13780
50	13903	14099
45	14188	14365

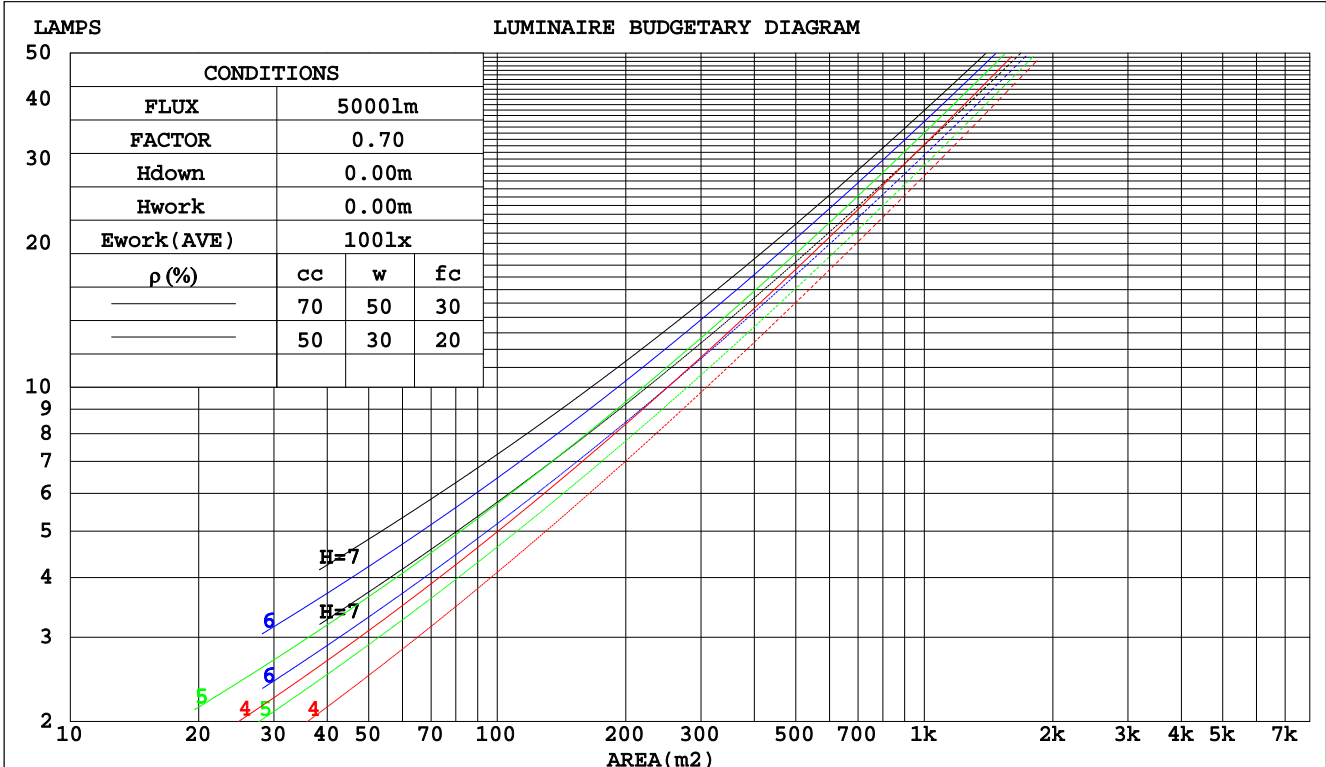
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 May 2023

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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_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	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.56	.47	.41	.54	.46	.40	.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	.28	.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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_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	.309	.176	.056	.302	.172	.055	.289	.166	.053	.277	.160	.051	.265	.154	.050	
2.0	.291	.160	.049	.285	.157	.048	.273	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.264	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.235	.125	.037	.226	.122	.037	.218	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.214	.107	.031	.210	.106	.030	.202	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.025	.183	.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	.164	.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	.102	.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	.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	.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	.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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm										
NAME:					TYPE:LED			WEIGHT:		
SPEC.:ASD-MPR-9D18CC_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	21.9	23.4	22.2	23.6	23.8	22.0	23.5	22.2	23.7	23.9
3H	23.4	24.8	23.7	25.0	25.3	23.5	24.9	23.8	25.1	25.4
4H	24.0	25.3	24.3	25.6	25.8	24.1	25.4	24.4	25.7	25.9
6H	24.4	25.6	24.7	25.9	26.2	24.5	25.7	24.8	26.0	26.3
8H	24.5	25.7	24.8	26.0	26.3	24.6	25.8	25.0	26.1	26.4
12H	24.5	25.7	24.9	26.0	26.3	24.7	25.8	25.0	26.1	26.4
4H 2H	22.5	23.9	22.8	24.1	24.4	22.6	23.9	22.9	24.2	24.4
3H	24.2	25.4	24.5	25.7	26.0	24.3	25.4	24.6	25.7	26.0
4H	24.9	26.0	25.3	26.3	26.6	25.0	26.1	25.4	26.4	26.7
6H	25.4	26.4	25.8	26.7	27.1	25.5	26.5	25.9	26.8	27.2
8H	25.6	26.5	26.0	26.8	27.2	25.7	26.6	26.1	27.0	27.3
12H	25.7	26.5	26.1	26.9	27.3	25.8	26.6	26.2	27.0	27.4
8H 4H	25.2	26.0	25.6	26.4	26.8	25.2	26.1	25.7	26.5	26.9
6H	25.8	26.6	26.3	27.0	27.4	25.9	26.7	26.4	27.1	27.5
8H	26.1	26.7	26.5	27.1	27.6	26.2	26.8	26.6	27.3	27.7
12H	26.2	26.8	26.7	27.2	27.7	26.3	26.9	26.8	27.4	27.8
12H 4H	25.2	26.0	25.6	26.4	26.8	25.2	26.1	25.7	26.4	26.9
6H	25.9	26.5	26.3	27.0	27.4	26.0	26.6	26.4	27.1	27.5
8H	26.1	26.7	26.6	27.2	27.6	26.3	26.8	26.7	27.3	27.8
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, 1509 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.4)
 Area: 0.0346185 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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

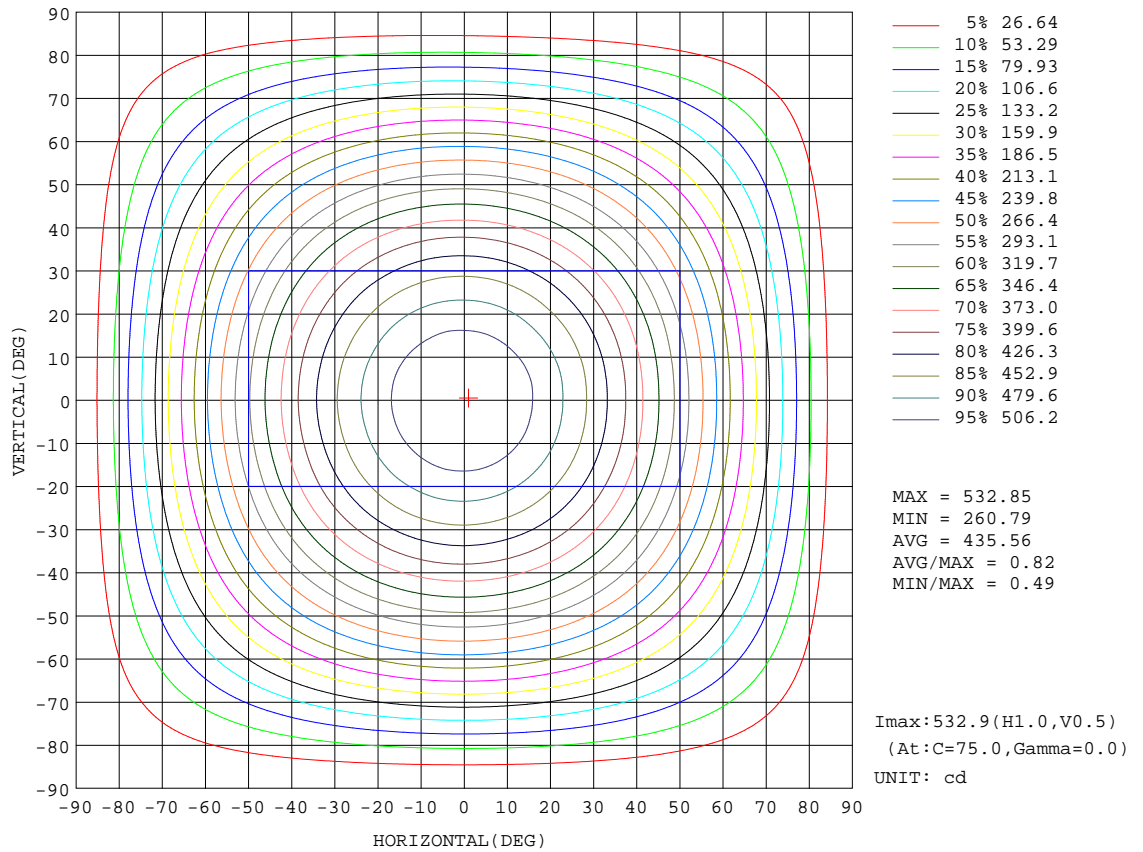
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	55	48	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	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	94	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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

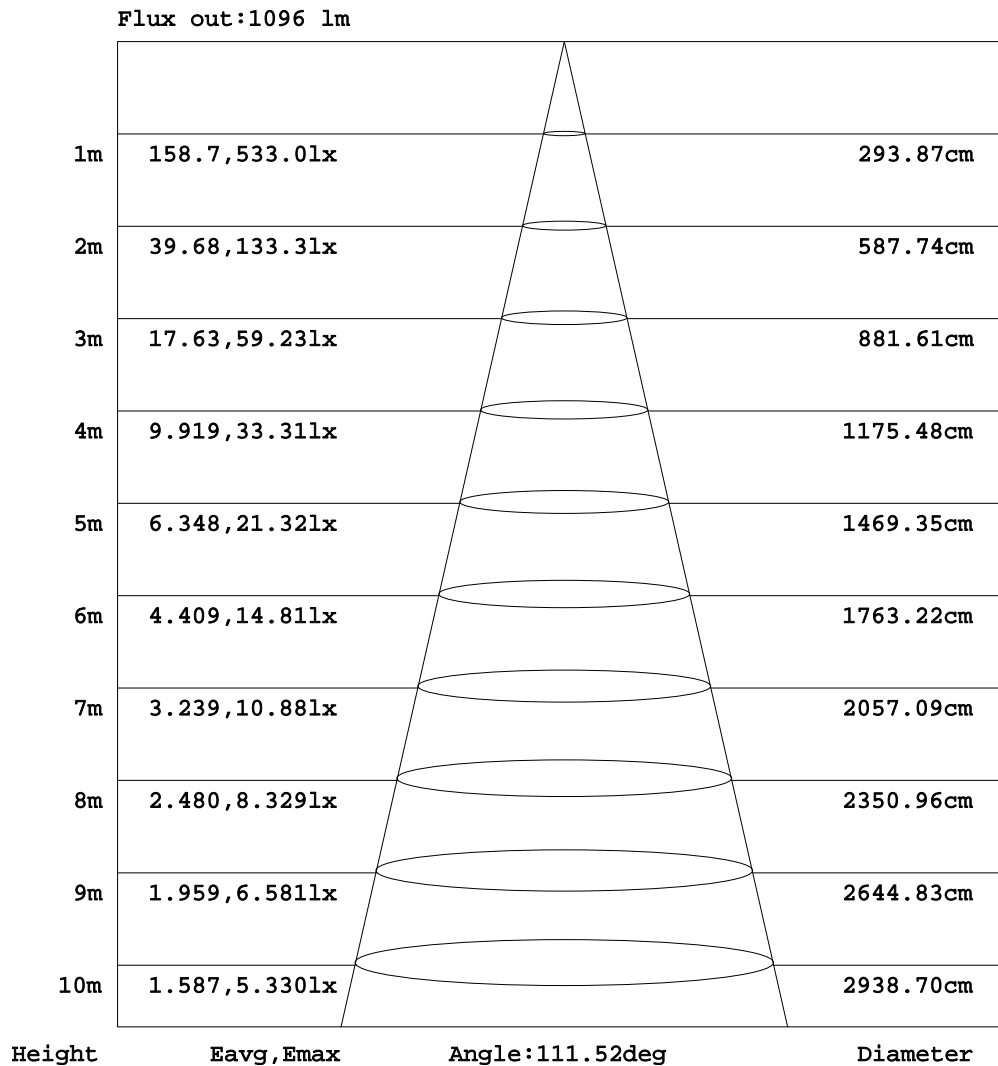


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 May 2023

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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



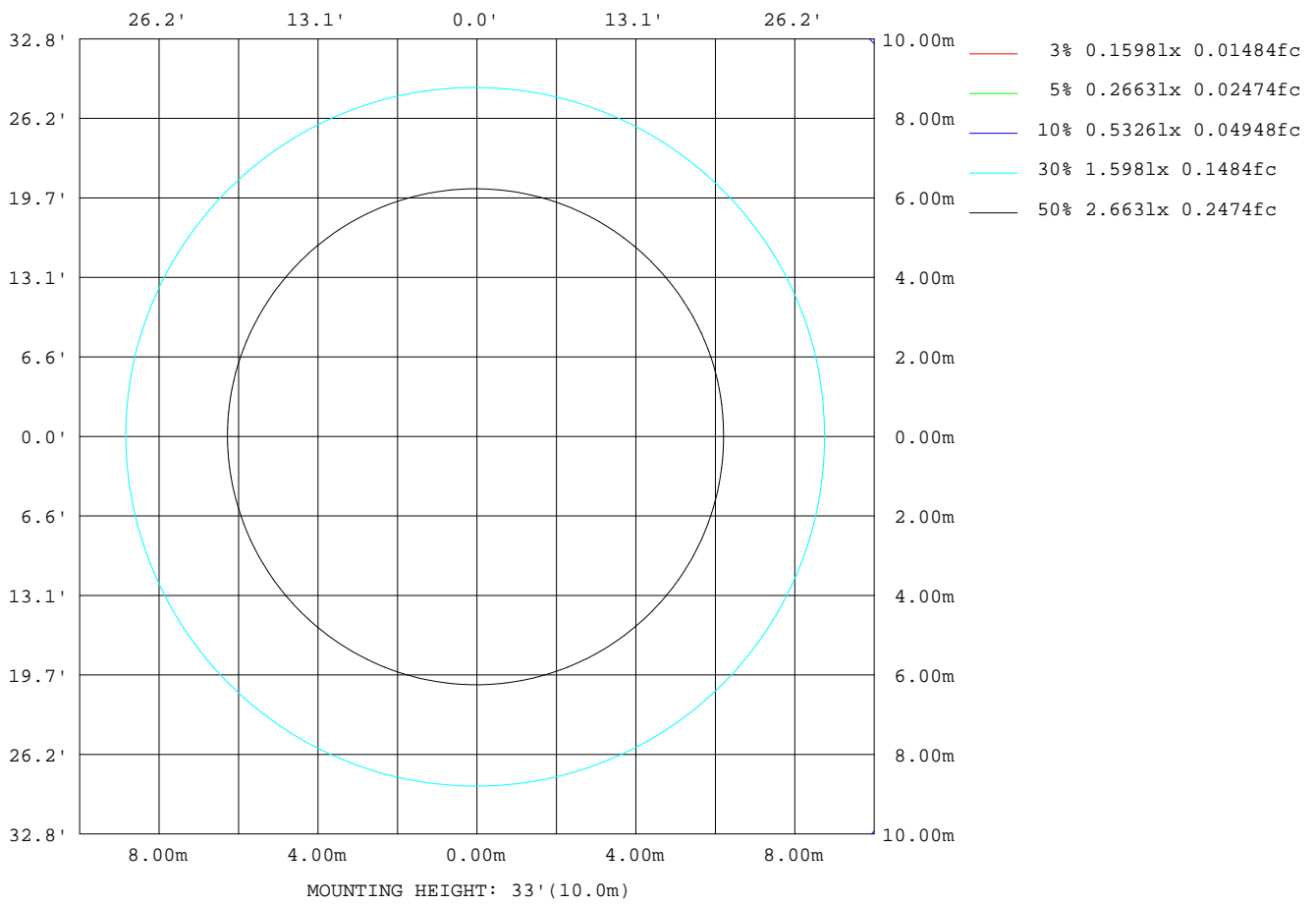
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

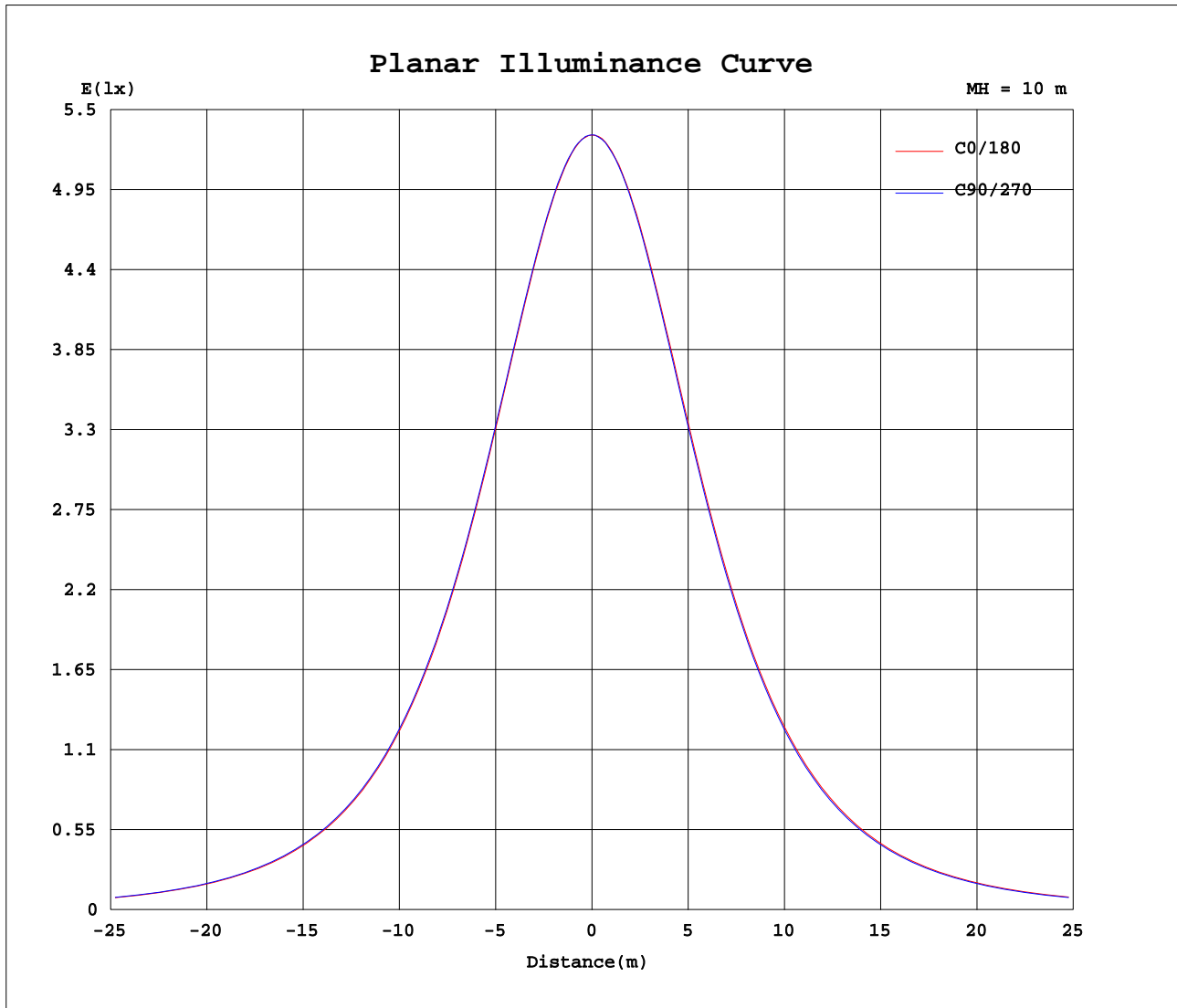
AvgL	cd/m2
L_0~180(65)av	12838
L_0~180(75)av	11234
L_0~180(85)av	8112
L_90~270(65)av	12786
L_90~270(75)av	11072
L_90~270(85)av	7883
L_45(65)av	12814
L_45(75)av	11146
L_45(85)av	7999

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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_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	533	533	532	532	533	533	533	532	533	533	533	533	533	533	532	532	533	533	533
5	530	530	530	530	530	530	530	530	531	530	531	531	531	531	530	530	530	530	530
10	521	522	522	522	522	523	523	523	523	523	524	524	523	524	523	523	523	523	522
15	509	509	509	510	510	511	511	511	511	511	512	512	512	512	512	511	511	510	510
20	491	491	492	493	493	493	494	494	494	495	495	495	495	495	495	494	494	494	493
25	470	470	471	471	472	472	473	473	473	474	474	474	475	475	474	473	473	472	471
30	444	445	445	446	446	447	447	448	448	448	449	449	450	450	449	448	448	447	446
35	415	416	416	417	418	418	419	419	419	420	420	420	422	422	421	420	419	418	417
40	383	384	384	385	386	386	387	387	387	388	388	388	390	390	389	388	387	386	385
45	347	348	349	350	350	351	352	352	352	353	353	354	355	355	354	353	352	351	350
50	309	310	311	312	313	313	314	314	315	315	316	316	318	317	317	315	314	313	312
55	269	270	271	272	273	273	274	274	275	275	276	276	278	277	277	276	274	273	272
60	227	228	229	230	231	231	232	232	233	233	233	234	236	236	235	234	233	231	230
65	184	185	186	187	187	188	188	188	189	189	190	190	192	192	191	190	189	187	186
70	140	141	142	143	143	143	144	144	144	145	145	146	148	148	147	146	145	143	142
75	96.8	97.9	98.7	99.5	99.8	100	100	100	100	101	102	102	105	105	104	103	102	100	98.4
80	56.4	57.3	58.1	58.7	59.1	59.2	59.0	58.9	59.1	59.7	60.5	61.3	63.6	63.7	63.4	62.4	61.1	59.7	58.1
85	21.4	22.0	22.6	23.2	23.5	23.8	23.7	23.8	23.9	24.5	25.1	25.6	27.5	27.6	27.5	26.7	25.8	24.8	23.8
90	0.06	0.06	0.07	0.15	0.13	0.17	0.13	0.08	0.09	0.13	0.10	0.10	0.16	0.14	0.14	0.13	0.12	0.11	0.11
95	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.13	0.13	0.13	0.13	0.13	0.13	0.13
100	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.16	0.16	0.16	0.16	0.16	0.16	0.16
105	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.19
110	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.20	0.20	0.20	0.20	0.20	0.20	0.21
115	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.21	0.21	0.21	0.21	0.21	0.21	0.21
120	0.20	0.20	0.20	0.20	0.20	0.19	0.20	0.20	0.19	0.19	0.19	0.19	0.22	0.22	0.22	0.22	0.22	0.22	0.22
125	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24
130	0.27	0.27	0.27	0.27	0.26	0.26	0.27	0.27	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.27	0.27
135	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.31	0.31	0.31	0.31	0.31	0.31	0.31
140	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.31	0.35	0.35	0.35	0.35	0.35	0.34	0.35
145	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.32	0.39	0.39	0.39	0.39	0.39	0.39	0.39
150	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.33	0.43	0.43	0.43	0.43	0.43	0.42	0.43
155	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.36	0.46	0.46	0.46	0.46	0.45	0.45	0.45
160	0.39	0.39	0.38	0.38	0.39	0.38	0.38	0.39	0.39	0.39	0.37	0.39	0.48	0.48	0.48	0.48	0.49	0.48	0.48
165	0.41	0.41	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.39	0.41	0.49	0.49	0.49	0.49	0.49	0.49	0.48
170	0.43	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.41	0.42	0.48	0.48	0.48	0.48	0.48	0.48	0.48
175	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.46	0.46	0.45	0.45	0.45	0.48	0.48	0.48	0.48	0.48	0.48	0.48
180	0.45	0.46	0.45	0.45	0.46	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.45

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:0.1643A P:18.430W PF:0.9346 Freq:60.00Hz Lamp Flux:1508.99x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-MPR-9D18CC_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	532	533	533	533	533														
5	530	530	530	530	530														
10	522	522	522	522	523														
15	510	509	509	510	510														
20	493	492	492	492	492														
25	471	470	470	471	471														
30	446	445	445	445	445														
35	417	416	416	416	416														
40	384	384	383	383	383														
45	349	348	348	348	349														
50	311	310	310	310	311														
55	271	270	270	270	271														
60	229	228	228	228	229														
65	185	184	184	184	184														
70	140	140	139	140	140														
75	97.0	96.2	95.9	96.4	97.3														
80	56.9	56.0	55.8	56.4	57.1														
85	23.0	22.4	22.2	22.3	22.7														
90	0.10	0.10	0.10	0.10	0.10														
95	0.13	0.13	0.13	0.13	0.13														
100	0.16	0.16	0.17	0.17	0.17														
105	0.19	0.19	0.19	0.20	0.20														
110	0.21	0.21	0.21	0.21	0.21														
115	0.22	0.22	0.22	0.22	0.22														
120	0.23	0.23	0.23	0.23	0.23														
125	0.25	0.25	0.25	0.25	0.25														
130	0.28	0.28	0.28	0.28	0.28														
135	0.32	0.32	0.32	0.32	0.32														
140	0.35	0.35	0.35	0.35	0.35														
145	0.39	0.39	0.40	0.40	0.40														
150	0.43	0.43	0.43	0.44	0.44														
155	0.46	0.46	0.46	0.46	0.46														
160	0.48	0.49	0.49	0.49	0.49														
165	0.48	0.49	0.50	0.49	0.50														
170	0.48	0.48	0.49	0.48	0.49														
175	0.48	0.48	0.48	0.48	0.48														
180	0.45	0.45	0.45	0.45	0.45														

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: