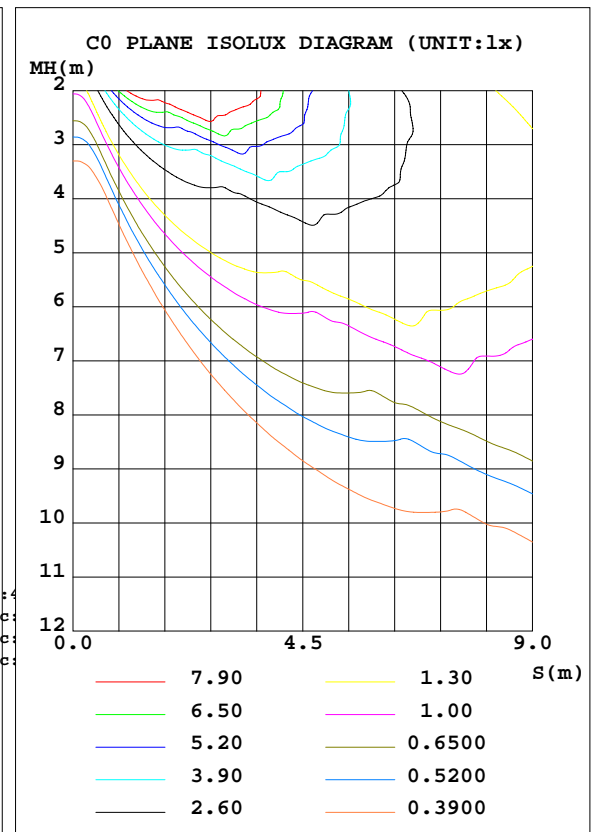
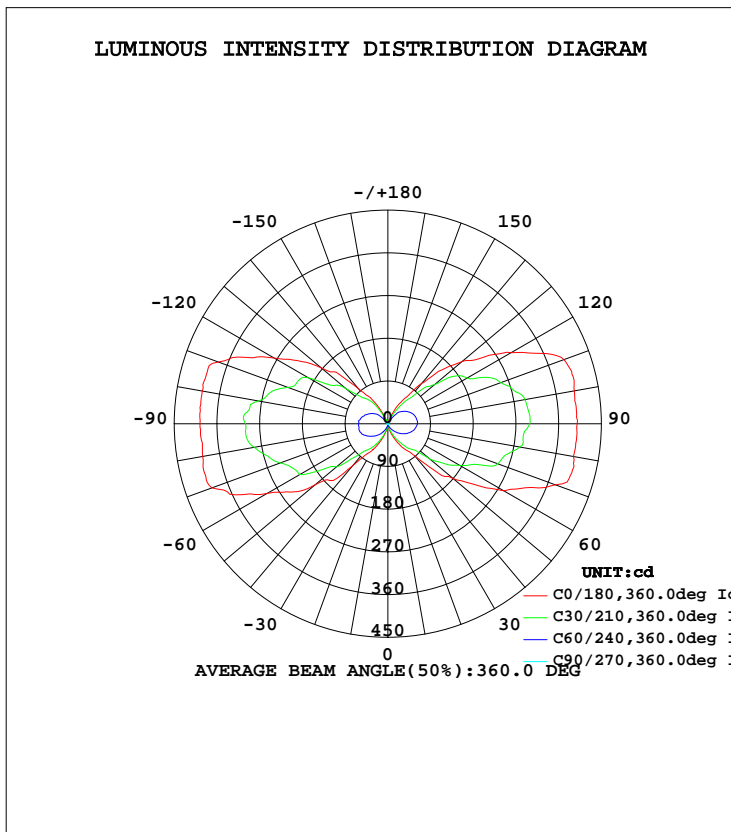


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.94 lm/W			
MODELASD-OLCLS-MV-2D18CC-XX		Imax(cd)	403.6	S/MH(C0/180)	10.19
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1370.7	η UP, DN(C0-180)	24.8,25.1
NOMINAL FLUX(lm)	1370.72	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	24.9,25.2
LAMPS INSIDE	1	η up(%)	49.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	50.3	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	6.881	4.061	2.396	6.527	9.967	6.603	2.422	3.542	0- 10	0.4007	0.4007	0.03,0.03
20	23.85	10.20	2.245	17.39	30.96	18.21	2.325	8.292	10- 20	2.725	3.126	0.23,0.23
30	52.84	24.84	2.188	33.75	62.99	35.93	2.290	20.34	20- 30	10.04	13.16	0.96,0.96
40	88.34	43.72	2.157	52.08	115.4	56.92	2.226	37.07	30- 40	23.91	37.08	2.7,2.7
50	180.0	64.88	2.153	68.00	200.3	72.78	2.199	55.46	40- 50	50.51	87.58	6.39,6.39
60	283.1	84.96	2.153	83.56	293.4	107.1	2.149	69.29	50- 60	89.95	177.5	13,13
70	376.0	116.9	2.154	109.8	395.2	134.7	2.112	88.06	60- 70	137.5	315.0	23,23
80	397.2	145.5	2.167	116.9	396.3	159.6	2.076	119.2	70- 80	177.5	492.5	35.9,35.9
90	398.8	159.5	2.191	131.6	395.9	165.3	2.032	129.3	80- 90	197.1	689.6	50.3,50.3
100	398.9	152.2	2.214	110.5	397.1	151.4	2.033	128.6	90-100	197.7	887.3	64.7,64.7
110	395.2	132.5	2.255	91.89	380.4	117.3	2.057	111.8	100-110	179.9	1067	77.9,77.9
120	299.9	101.1	2.266	72.26	277.7	77.32	2.080	83.47	110-120	138.6	1206	88,88
130	204.3	73.62	2.274	57.21	183.2	64.63	2.095	64.52	120-130	90.95	1297	94.6,94.6
140	112.0	51.54	2.307	33.68	96.78	37.19	2.108	32.83	130-140	48.94	1346	98.2,98.2
150	49.18	20.44	2.195	5.027	43.62	3.672	2.113	8.841	140-150	19.15	1365	99.6,99.6
160	8.326	3.785	2.164	2.607	5.005	4.700	2.118	6.171	150-160	4.461	1369	99.9,99.9
170	4.683	3.308	2.195	2.831	4.248	2.861	2.207	3.405	160-170	1.077	1370	100,100
180	4.140	3.081	2.265	3.112	4.163	3.073	2.268	3.108	170-180	0.3002	1371	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

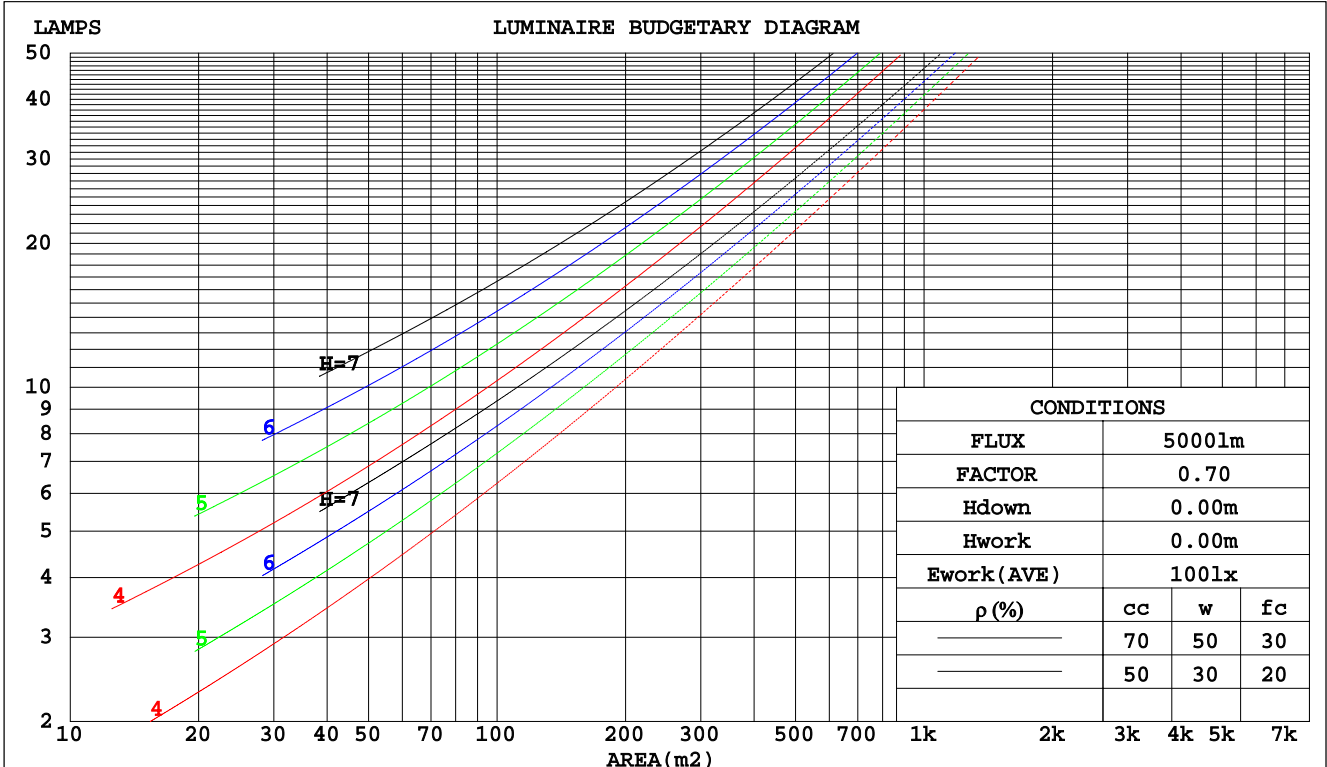
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-11-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

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	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.69	.69	.69	.56	.56	.56	.50
1.0	.83	.76	.70	.76	.70	.64	.62	.57	.53	.50	.46	.43	.38	.35	.33	.27
2.0	.68	.59	.52	.62	.54	.47	.50	.44	.38	.39	.35	.30	.29	.26	.22	.17
3.0	.58	.48	.40	.52	.43	.36	.42	.35	.29	.33	.27	.23	.24	.20	.16	.11
4.0	.50	.40	.32	.45	.36	.29	.36	.29	.23	.28	.22	.18	.20	.16	.12	.08
5.0	.44	.33	.26	.39	.30	.24	.32	.24	.19	.24	.19	.14	.18	.13	.09	.06
6.0	.39	.29	.22	.35	.26	.20	.28	.21	.16	.22	.16	.12	.16	.11	.08	.04
7.0	.34	.25	.18	.31	.23	.17	.25	.18	.13	.19	.14	.10	.14	.10	.06	.03
8.0	.31	.22	.16	.28	.20	.14	.23	.16	.11	.17	.12	.08	.13	.08	.05	.03
9.0	.28	.19	.14	.25	.18	.12	.21	.14	.10	.16	.11	.07	.12	.08	.05	.02
10.0	.25	.17	.12	.23	.16	.11	.19	.13	.08	.15	.10	.06	.11	.07	.04	.02



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

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	.484	.275	.087	.461	.263	.084	.419	.240	.077	.380	.219	.070	.344	.200	.064	
2.0	.388	.213	.065	.368	.202	.062	.329	.183	.057	.293	.164	.051	.260	.147	.046	
3.0	.330	.176	.053	.312	.167	.050	.276	.150	.045	.243	.133	.041	.213	.118	.036	
4.0	.289	.150	.044	.272	.142	.042	.239	.127	.038	.209	.112	.034	.181	.098	.030	
5.0	.257	.131	.038	.242	.124	.036	.212	.110	.032	.184	.097	.029	.158	.084	.025	
6.0	.232	.116	.033	.218	.110	.032	.190	.097	.028	.164	.085	.025	.140	.074	.022	
7.0	.212	.105	.030	.198	.099	.028	.173	.087	.025	.149	.076	.022	.127	.066	.019	
8.0	.194	.095	.027	.182	.090	.025	.158	.079	.023	.136	.069	.020	.115	.059	.017	
9.0	.180	.087	.024	.168	.082	.023	.146	.072	.020	.126	.063	.018	.106	.054	.016	
10.0	.167	.080	.022	.156	.076	.021	.136	.067	.019	.116	.058	.016	.098	.049	.014	

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	.569	.569	.569	.486	.486	.486	.332	.332	.332	.191	.191	.191	.061	.061	.061	
1.0	.574	.536	.502	.491	.460	.432	.336	.317	.299	.193	.183	.174	.062	.059	.056	
2.0	.569	.516	.471	.488	.444	.407	.334	.307	.284	.193	.179	.166	.062	.058	.054	
3.0	.562	.501	.452	.482	.432	.392	.331	.300	.275	.191	.175	.162	.061	.057	.053	
4.0	.555	.490	.440	.476	.423	.383	.327	.295	.269	.189	.173	.159	.061	.056	.052	
5.0	.547	.481	.433	.470	.416	.376	.323	.291	.266	.187	.171	.158	.060	.056	.052	
6.0	.539	.474	.427	.463	.410	.372	.320	.287	.263	.185	.169	.156	.060	.055	.052	
7.0	.532	.468	.423	.457	.405	.369	.316	.284	.261	.184	.167	.155	.059	.055	.051	
8.0	.525	.463	.420	.452	.401	.366	.313	.282	.260	.182	.166	.155	.059	.054	.051	
9.0	.518	.458	.417	.447	.398	.364	.309	.279	.259	.180	.165	.154	.058	.054	.051	
10.0	.512	.454	.416	.442	.394	.363	.306	.278	.258	.179	.164	.154	.058	.054	.051	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm										
NAME: ASD-OLCLS-MV-2D18CC-XX					TYPE:N/A			WEIGHT:N/A		
SPEC.:					DIM.: N/A			SERIAL No.:N/A		
MFR.: ASD Lighting corp					SUR.:N/A			PROTECTION ANGLE:N/A		
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	16.6	17.8	17.5	18.7	19.9	1.8	3.0	2.7	3.9	5.1
3H	21.9	23.0	22.8	23.9	25.2	2.9	4.0	3.8	4.9	6.1
4H	24.6	25.6	25.5	26.6	27.8	3.3	4.3	4.2	5.2	6.5
6H	27.2	28.2	28.1	29.1	30.4	3.8	4.7	4.7	5.7	6.9
8H	28.5	29.4	29.4	30.4	31.6	4.0	5.0	4.9	5.9	7.2
12H	29.9	30.8	30.9	31.8	33.1	4.3	5.2	5.2	6.1	7.4
4H 2H	16.7	17.7	17.6	18.6	19.9	9.6	10.6	10.5	11.6	12.8
3H	22.3	23.2	23.3	24.2	25.5	10.8	11.7	11.7	12.6	13.9
4H	25.3	26.1	26.2	27.1	28.4	11.2	12.1	12.2	13.0	14.3
6H	28.3	29.0	29.2	30.0	31.3	11.5	12.3	12.5	13.3	14.6
8H	29.8	30.5	30.7	31.5	32.8	11.6	12.3	12.6	13.3	14.6
12H	31.4	32.0	32.4	33.0	34.4	11.7	12.3	12.7	13.3	14.7
8H 4H	25.3	26.0	26.3	27.0	28.3	16.8	17.5	17.8	18.5	19.8
6H	28.7	29.3	29.7	30.3	31.6	17.5	18.1	18.5	19.1	20.5
8H	30.5	31.0	31.5	32.0	33.4	17.7	18.3	18.7	19.3	20.6
12H	32.4	32.9	33.5	34.0	35.3	17.8	18.3	18.9	19.4	20.7
12H 4H	25.2	25.9	26.2	26.9	28.2	18.9	19.6	19.9	20.6	21.9
6H	28.7	29.2	29.7	30.2	31.6	20.1	20.6	21.1	21.7	23.0
8H	30.6	31.0	31.6	32.1	33.4	20.5	21.0	21.5	22.0	23.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.3					+ 0.2 / - 0.1				
2.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.3				

CIE Pub.117 Corrected 1371 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.1)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

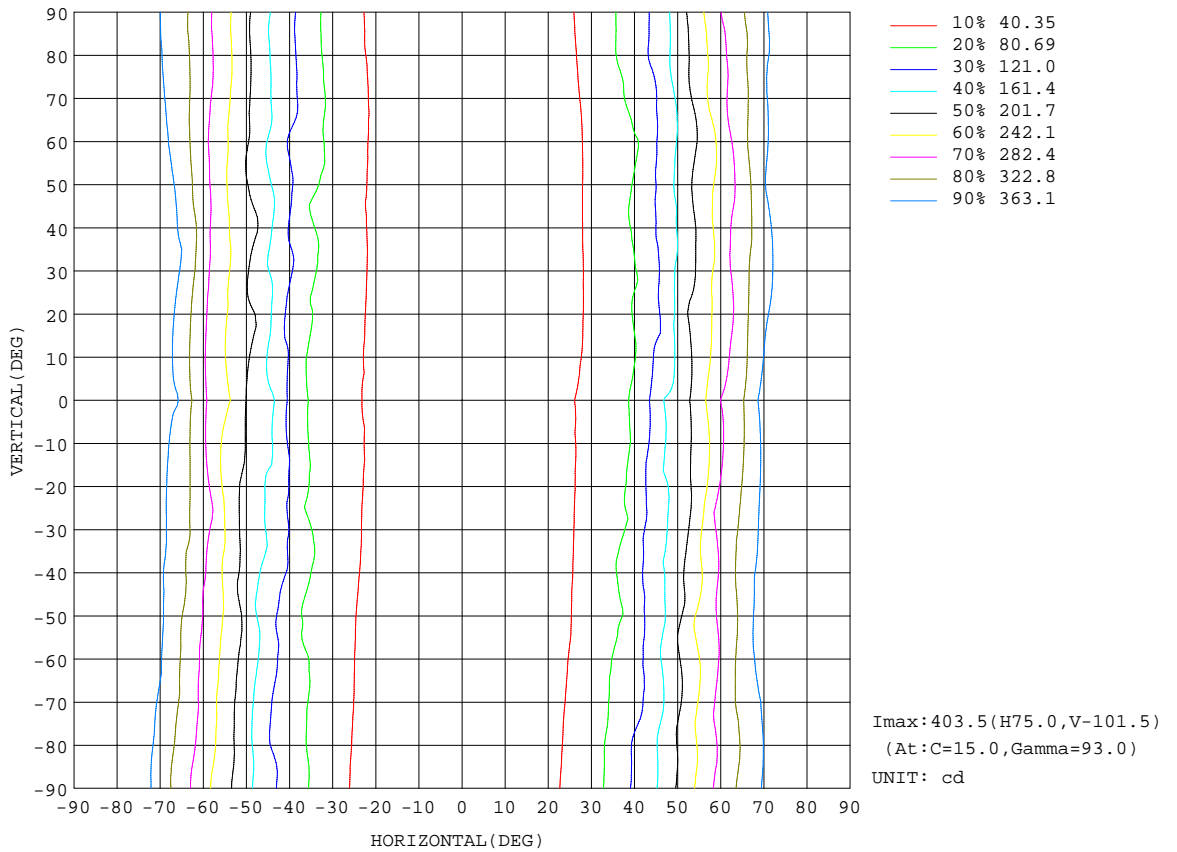
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	32	18	10	30	17	10	27	16	9	2
0.80	39	24	15	37	23	14	32	20	13	4
1.00	46	30	20	43	28	19	37	27	17	6
1.25	53	37	26	49	34	25	42	30	21	8
1.50	58	42	31	54	39	29	46	34	25	10
2.00	66	51	40	61	48	38	52	41	32	14
2.50	72	58	47	66	54	44	56	46	38	17
3.00	76	63	53	70	58	49	59	50	42	20
4.00	82	71	61	75	65	57	63	55	48	25
5.00	86	76	67	79	70	62	66	59	53	28
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:25.3DEG  
 Operators:  
 Test Date:2020-11-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

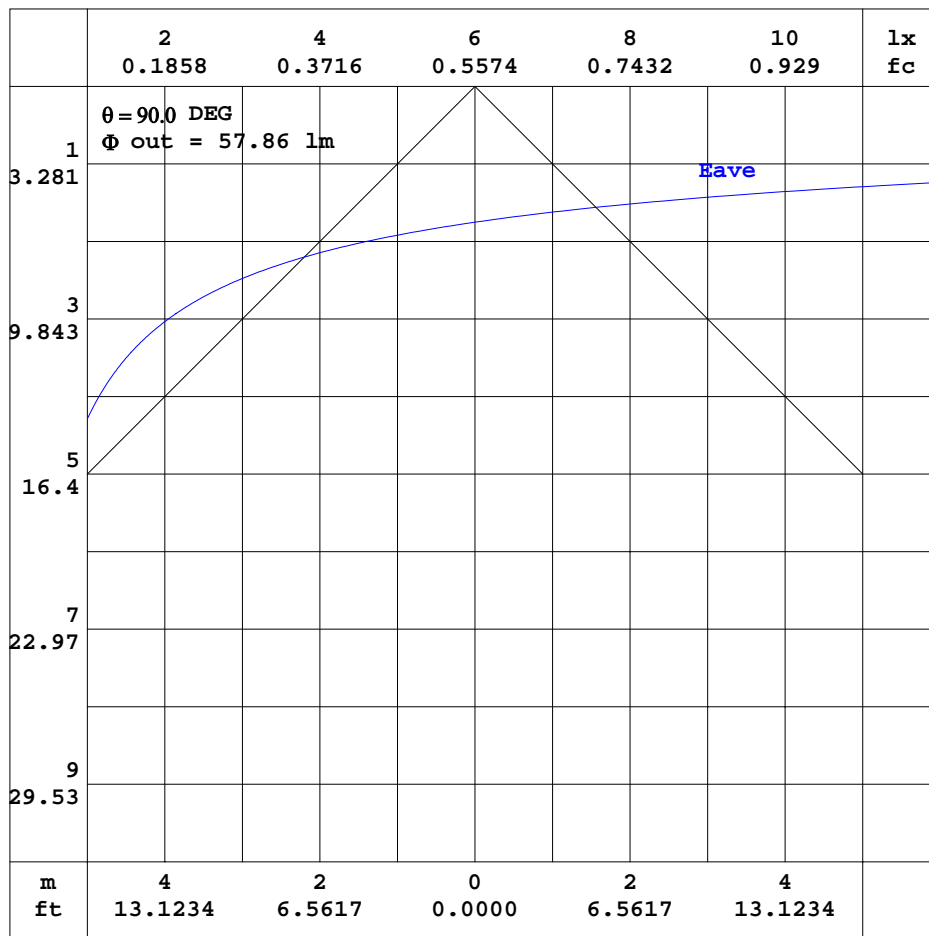


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

AAI CURVES

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A



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

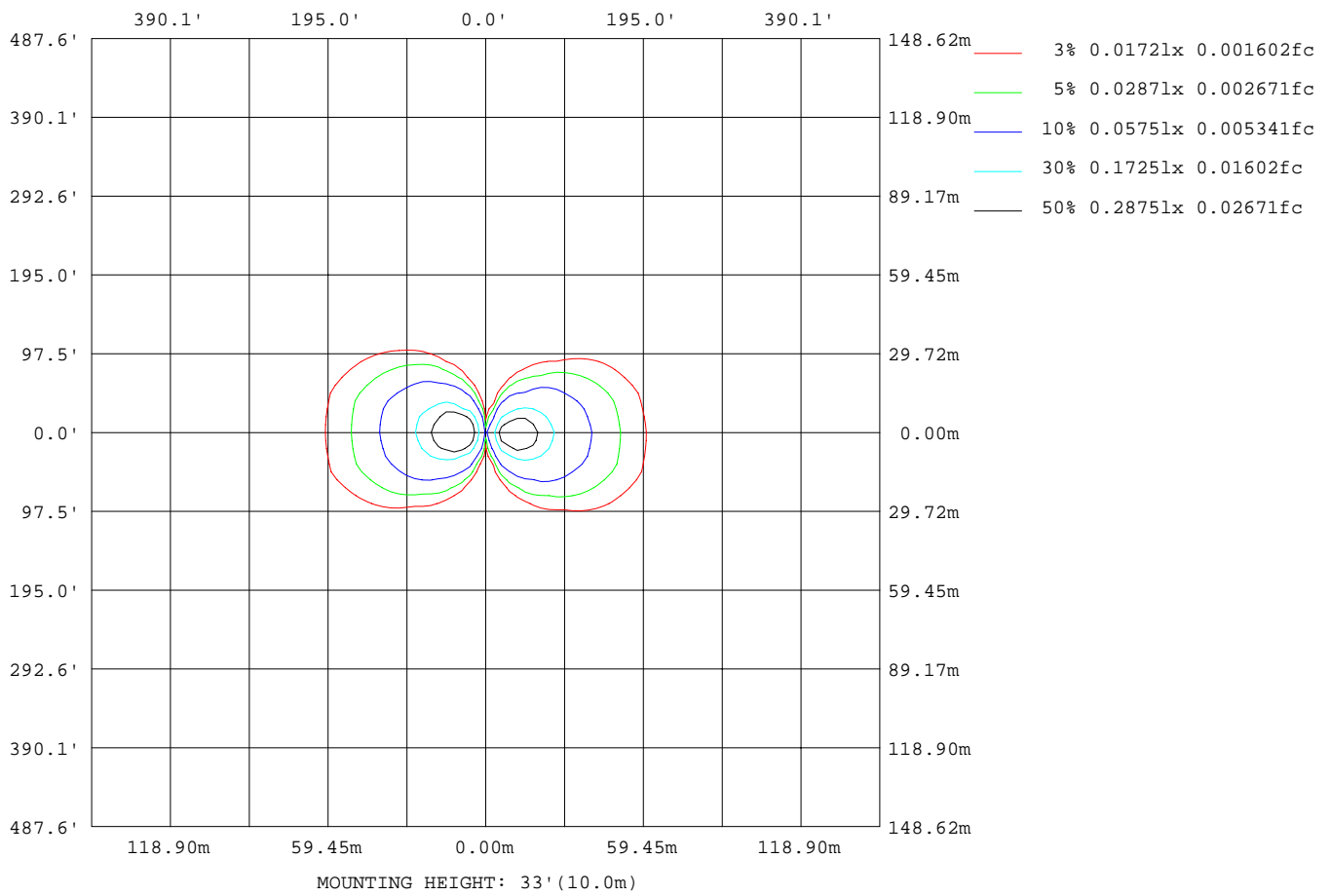
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

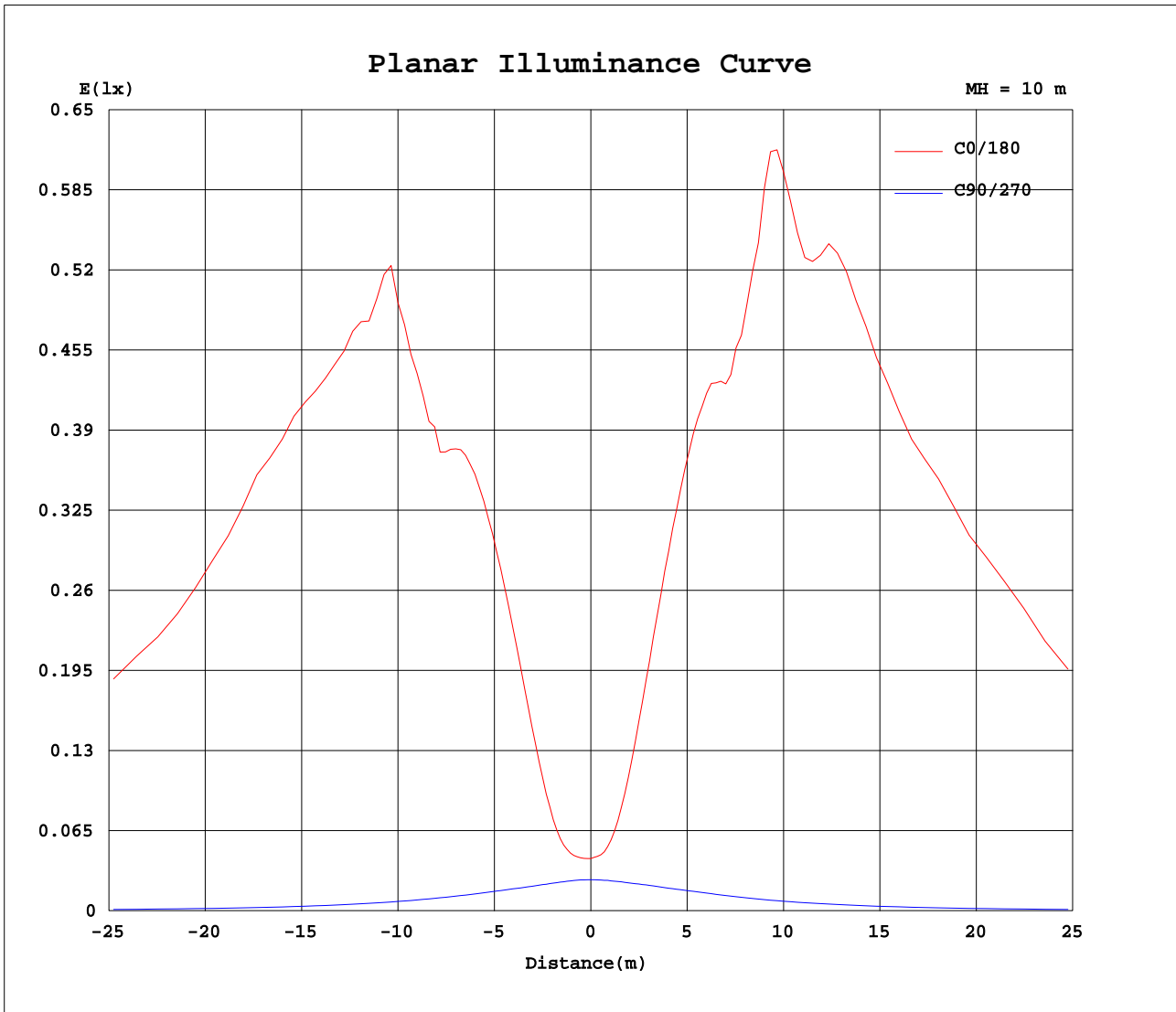
AvgL	cd/m2
L_0~180(65)av	7975
L_0~180(75)av	15476
L_0~180(85)av	45494
L_90~270(65)av	51
L_90~270(75)av	82
L_90~270(85)av	242
L_45(65)av	2320
L_45(75)av	4775
L_45(85)av	16496

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2020-11-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

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	4.25	4.16	3.83	3.38	2.96	2.64	2.52	2.57	2.78	3.18	3.61	4.02	4.25	4.16	3.83	3.38	2.96	2.64	2.52
5	4.55	4.41	4.01	3.45	2.94	2.58	2.49	2.63	3.10	3.89	4.77	5.32	5.28	5.31	4.74	4.03	3.23	2.73	2.50
10	6.88	6.28	5.27	4.06	3.18	2.60	2.40	2.75	4.28	6.53	8.94	10.3	9.97	10.1	8.52	6.60	4.49	2.96	2.42
15	13.4	12.0	9.42	5.99	3.75	2.67	2.31	3.10	6.37	11.1	16.2	19.1	18.8	18.7	15.5	11.5	6.86	3.58	2.36
20	23.8	21.4	16.8	10.2	5.13	2.83	2.25	3.66	9.28	17.4	25.8	31.0	31.0	30.5	25.1	18.2	10.4	4.35	2.33
25	37.2	34.2	26.7	16.6	7.70	3.07	2.21	4.41	12.9	25.0	37.3	45.0	46.0	44.5	36.8	26.4	14.7	5.59	2.30
30	52.8	48.8	38.7	24.8	11.2	3.54	2.19	5.28	17.2	33.7	49.8	61.0	63.0	60.3	50.2	35.9	19.7	7.01	2.29
35	68.2	65.2	52.4	34.3	15.4	4.16	2.17	6.28	21.7	42.4	63.1	75.3	77.8	73.0	63.1	45.9	25.2	8.51	2.26
40	88.3	78.1	67.4	43.7	20.2	4.95	2.16	7.37	26.5	52.1	72.4	99.6	115	112	74.4	56.9	30.7	9.81	2.23
45	140	127	78.0	54.1	25.3	6.09	2.15	8.28	30.8	61.4	95.5	159	170	139	100	66.6	35.8	11.3	2.21
50	180	165	116	64.9	31.1	7.49	2.15	9.25	35.2	68.0	130	182	200	202	141	72.8	40.7	13.1	2.20
55	224	198	148	73.5	36.6	8.99	2.15	10.2	39.0	74.2	160	207	251	225	169	80.4	46.3	14.2	2.18
60	283	251	176	85.0	42.0	10.4	2.15	10.7	42.5	83.6	173	266	293	264	214	107	51.1	15.2	2.15
65	319	306	202	102	47.0	11.7	2.15	11.3	45.4	96.0	203	309	355	313	221	119	56.3	16.3	2.13
70	376	341	246	117	51.4	13.1	2.15	11.8	48.2	110	232	335	395	364	241	135	59.5	17.6	2.11
75	401	376	256	127	55.6	14.4	2.16	11.9	49.8	112	246	362	400	390	262	152	61.6	18.1	2.09
80	397	399	282	145	58.4	15.5	2.17	11.9	50.7	117	258	387	396	396	286	160	62.2	18.1	2.08
85	399	399	286	156	60.5	16.5	2.18	11.7	50.7	128	265	389	394	395	300	162	61.8	17.9	2.04
90	399	401	299	160	62.5	17.0	2.19	11.4	50.5	132	256	389	396	395	300	165	61.6	17.7	2.03
95	398	402	298	156	62.6	17.4	2.20	10.9	49.2	120	260	387	397	395	297	160	62.1	16.9	2.03
100	399	398	293	152	61.5	17.5	2.21	10.2	47.3	111	243	385	397	390	277	151	58.8	16.4	2.03
105	402	399	274	144	60.0	17.2	2.23	9.33	44.8	108	226	356	396	377	256	145	56.3	15.5	2.04
110	395	378	254	133	57.8	16.8	2.25	8.52	41.5	91.9	210	315	380	349	225	117	52.4	13.5	2.06
115	352	331	232	124	54.3	15.9	2.26	7.32	37.9	77.7	169	289	331	292	210	104	47.6	11.8	2.07
120	300	291	193	101	50.5	15.1	2.27	5.48	33.8	72.3	155	227	278	245	195	77.3	43.0	7.79	2.08
125	243	234	176	86.8	46.0	12.6	2.25	3.25	29.6	65.6	125	184	232	211	141	71.7	37.5	3.63	2.09
130	204	187	129	73.6	40.7	7.54	2.27	2.89	19.3	57.2	92.8	157	183	169	115	64.6	32.1	1.78	2.10
135	161	155	105	65.4	35.5	3.69	2.32	3.38	6.03	47.7	71.7	114	154	117	81.1	55.0	22.3	1.76	2.10
140	112	87.7	68.9	51.5	26.8	3.93	2.31	2.93	4.99	33.7	61.5	76.5	96.8	80.2	67.8	37.2	8.97	1.77	2.11
145	69.0	65.2	47.9	36.7	14.2	3.29	2.23	2.30	10.3	12.2	41.6	59.0	70.6	65.6	52.5	17.7	2.08	1.79	2.11
150	49.2	38.7	26.2	20.4	4.73	2.74	2.20	2.02	2.12	5.03	14.8	30.3	43.6	42.6	25.6	3.67	3.21	1.83	2.11
155	27.3	18.7	12.5	7.54	4.33	2.64	2.18	1.92	2.01	10.4	4.20	6.63	15.1	13.8	6.25	5.85	2.19	1.86	2.12
160	8.33	6.58	4.37	3.78	3.10	2.57	2.16	1.96	2.08	2.61	7.67	5.78	5.01	6.12	8.40	4.70	2.14	1.90	2.12
165	7.03	6.19	5.18	3.43	2.98	2.50	2.18	2.04	2.19	2.69	3.29	3.97	7.39	6.13	3.55	2.77	2.24	1.99	2.15
170	4.68	4.05	3.72	3.31	2.88	2.45	2.20	2.16	2.36	2.83	3.38	3.84	4.25	3.99	3.47	2.86	2.38	2.11	2.21
175	4.13	3.99	3.64	3.19	2.76	2.39	2.24	2.28	2.51	2.98	3.46	3.90	4.19	3.96	3.53	2.97	2.52	2.22	2.26
180	4.14	3.98	3.56	3.08	2.65	2.34	2.26	2.38	2.67	3.11	3.57	3.96	4.16	3.97	3.56	3.07	2.65	2.33	2.27

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1435A P:16.73W PF:0.9718 Lamp Flux:1370.72x1 lm		
NAME: ASD-OLCLS-MV-2D18CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

Table--2

UNIT: cd

C( DEG) γ (DEG)	285	300	315	330	345														
0	2.57	2.78	3.18	3.61	4.02														
5	2.48	2.75	3.13	3.63	4.12														
10	2.46	2.88	3.54	4.53	5.62														
15	2.46	3.22	4.93	7.60	10.7														
20	2.53	4.04	8.29	13.9	19.6														
25	2.69	5.74	13.5	22.8	31.2														
30	2.91	8.35	20.3	33.5	44.9														
35	3.22	11.7	28.3	45.8	59.7														
40	3.67	15.8	37.1	58.8	71.4														
45	4.17	20.0	46.4	70.3	108														
50	4.92	24.5	55.5	86.7	146														
55	5.75	29.2	63.6	118	202														
60	6.67	33.7	69.3	151	231														
65	7.57	37.7	75.0	187	267														
70	8.54	41.5	88.1	209	312														
75	9.40	44.9	104	222	344														
80	10.2	47.7	119	259	374														
85	10.9	49.9	129	267	395														
90	11.4	51.2	129	282	394														
95	11.8	51.8	129	280	397														
100	11.9	51.6	129	263	390														
105	11.9	50.7	131	249	376														
110	11.7	49.0	112	230	342														
115	11.1	46.3	99.7	209	307														
120	8.36	43.0	83.5	193	258														
125	4.91	39.1	72.0	155	235														
130	3.04	35.1	64.5	129	197														
135	2.91	26.0	50.3	88.5	136														
140	3.30	13.9	32.8	68.1	104														
145	3.46	5.14	17.1	45.5	68.9														
150	2.75	3.50	8.84	27.6	50.6														
155	2.66	3.48	4.14	14.2	28.2														
160	2.62	3.15	6.17	4.86	9.48														
165	2.53	3.03	3.54	6.04	5.71														
170	2.50	2.92	3.40	3.85	4.16														
175	2.45	2.80	3.27	3.70	4.05														
180	2.39	2.68	3.11	3.57	3.95														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-11-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks: