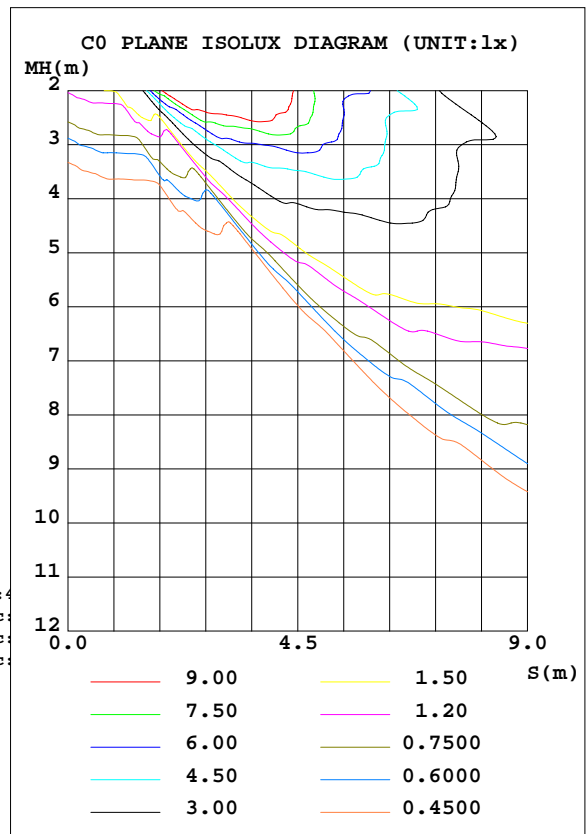
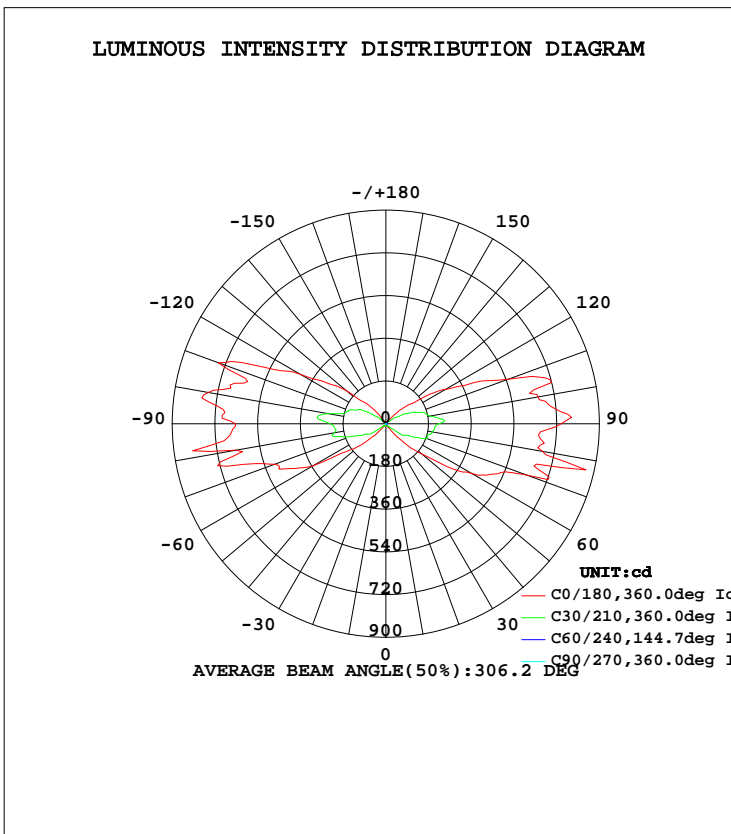


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.79 lm/W			
ASD-OLCLR-MV-2D18CC-EM-BZ/BK		Imax(cd)	916.3	S/MH(C0/180)	11.86
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.70
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1556.9	η UP, DN(C0-180)	24.0,25.4
NOMINAL FLUX(lm)	1556.89	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	25.4,25.2
LAMPS INSIDE	1	η up(%)	49.4	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	50.6	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-14

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	6.052	3.771	2.134	3.798	5.265	2.919	2.376	3.997	0- 10	0.3430	0.3430	0.02,0.02
20	7.239	4.630	1.903	4.545	6.048	3.023	2.449	5.067	10- 20	1.156	1.499	0.10,0.10
30	14.34	5.619	1.899	5.065	7.805	3.543	2.573	6.061	20- 30	2.284	3.783	0.24,0.24
40	64.72	6.645	1.937	10.59	26.54	3.689	2.692	11.03	30- 40	5.564	9.347	0.60,0.60
50	199.5	8.913	2.003	21.87	143.9	4.716	2.796	16.46	40- 50	24.94	34.29	2.2,2.2
60	419.5	13.78	2.080	84.57	356.8	10.20	2.931	90.58	50- 60	76.78	111.1	7.13,7.13
70	634.1	16.44	2.076	151.9	499.1	12.10	3.019	158.0	60- 70	152.0	263.1	16.9,16.9
80	669.8	17.54	2.084	180.7	643.1	24.55	3.069	181.1	70- 80	242.5	505.6	32.5,32.5
90	738.5	17.72	2.095	201.1	633.8	29.40	3.073	213.5	80- 90	282.2	787.8	50.6,50.6
100	652.8	17.28	2.033	197.6	760.8	23.79	3.046	184.6	90-100	273.1	1061	68.1,68.1
110	551.1	16.55	1.972	154.0	750.5	12.40	2.992	142.3	100-110	234.0	1295	83.2,83.2
120	291.0	12.57	1.814	88.12	420.6	10.91	2.877	67.34	110-120	157.8	1453	93.3,93.3
130	125.1	10.11	1.583	19.93	218.1	7.480	2.615	16.88	120-130	71.43	1524	97.9,97.9
140	16.83	5.911	1.575	5.902	76.45	3.464	2.384	10.69	130-140	24.01	1548	99.4,99.4
150	8.617	4.929	1.556	3.643	13.25	2.565	2.261	6.544	140-150	5.375	1554	99.8,99.8
160	6.478	4.016	1.514	3.249	6.231	2.339	2.157	5.350	150-160	2.031	1556	99.9,99.9
170	5.096	3.208	1.690	3.189	4.975	2.376	2.110	4.183	160-170	1.028	1557	100,100
180	4.726	2.692	2.030	3.381	4.737	2.684	2.026	3.405	170-180	0.3124	1557	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

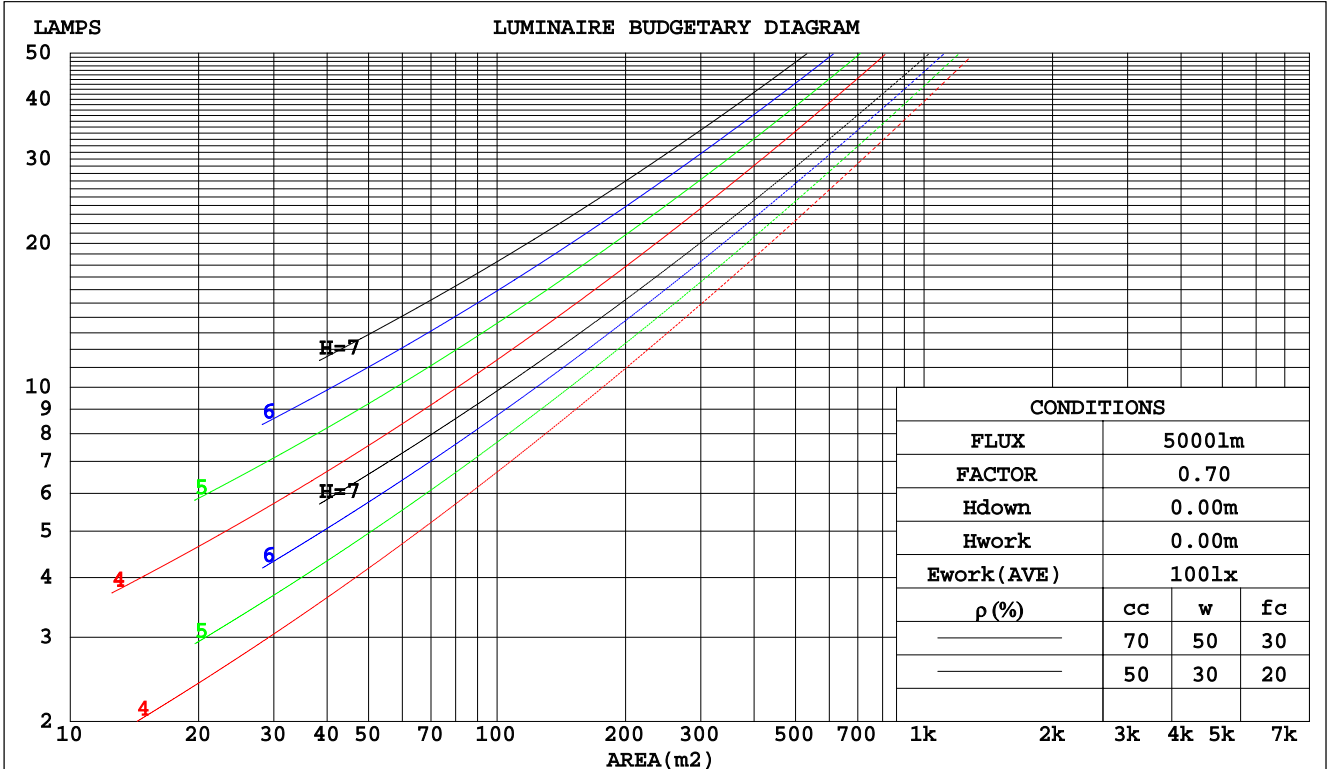
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-14

$\gamma$  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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.80	.73	.66	.73	.67	.61	.60	.54	.50	.47	.43	.39	.36	.32	.29	.24
2.0	.66	.56	.48	.59	.51	.43	.47	.41	.35	.37	.31	.26	.27	.22	.19	.13
3.0	.55	.45	.36	.50	.40	.33	.40	.32	.26	.30	.24	.19	.21	.17	.13	.08
4.0	.48	.37	.29	.43	.33	.26	.34	.26	.20	.26	.19	.15	.18	.13	.09	.05
5.0	.42	.31	.23	.37	.28	.21	.30	.22	.16	.22	.16	.12	.16	.11	.07	.03
6.0	.37	.27	.20	.33	.24	.17	.26	.19	.13	.20	.14	.09	.14	.09	.06	.02
7.0	.33	.23	.17	.30	.21	.15	.24	.16	.11	.18	.12	.08	.12	.08	.05	.02
8.0	.30	.20	.14	.27	.18	.13	.21	.15	.10	.16	.11	.07	.11	.07	.04	.01
9.0	.27	.18	.12	.24	.16	.11	.19	.13	.08	.15	.10	.06	.11	.06	.03	.01
10.0	.25	.16	.11	.22	.15	.10	.18	.12	.07	.14	.09	.05	.10	.06	.03	.01



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	.533	.303	.096	.510	.291	.092	.468	.268	.086	.429	.247	.079	.393	.228	.073	
2.0	.416	.228	.070	.395	.218	.067	.356	.198	.062	.321	.180	.056	.288	.163	.051	
3.0	.348	.185	.055	.329	.176	.053	.294	.159	.048	.261	.143	.044	.230	.127	.039	
4.0	.301	.156	.046	.283	.148	.044	.251	.133	.040	.221	.119	.036	.193	.105	.032	
5.0	.265	.135	.039	.250	.128	.037	.220	.114	.034	.192	.101	.030	.166	.089	.027	
6.0	.238	.119	.034	.224	.113	.032	.196	.100	.029	.170	.089	.026	.146	.077	.023	
7.0	.216	.107	.030	.203	.101	.029	.177	.090	.026	.153	.079	.023	.131	.068	.020	
8.0	.198	.097	.027	.185	.091	.026	.162	.081	.023	.140	.071	.020	.119	.061	.018	
9.0	.182	.088	.025	.171	.083	.023	.149	.074	.021	.128	.064	.018	.109	.055	.016	
10.0	.169	.081	.023	.158	.076	.021	.138	.068	.019	.119	.059	.017	.100	.050	.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	.567	.567	.567	.484	.484	.484	.331	.331	.331	.190	.190	.190	.061	.061	.061	
1.0	.575	.534	.496	.492	.458	.427	.337	.315	.295	.194	.182	.172	.062	.059	.056	
2.0	.571	.513	.465	.489	.442	.402	.335	.306	.280	.193	.178	.164	.062	.058	.054	
3.0	.564	.499	.447	.483	.430	.388	.332	.299	.272	.192	.175	.160	.062	.057	.053	
4.0	.555	.488	.436	.477	.422	.379	.328	.294	.267	.190	.172	.158	.061	.056	.052	
5.0	.547	.479	.429	.470	.415	.373	.324	.290	.264	.187	.170	.156	.060	.055	.052	
6.0	.539	.472	.424	.463	.409	.369	.319	.286	.261	.185	.168	.155	.060	.055	.051	
7.0	.531	.466	.420	.457	.404	.366	.316	.283	.259	.183	.167	.154	.059	.055	.051	
8.0	.524	.461	.417	.451	.400	.364	.312	.281	.258	.182	.165	.154	.059	.054	.051	
9.0	.517	.456	.415	.446	.396	.362	.309	.278	.257	.180	.164	.153	.058	.054	.051	
10.0	.511	.452	.413	.440	.393	.360	.306	.276	.256	.178	.163	.153	.058	.054	.051	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	16.6	17.8	17.5	18.7	19.9	-10.9	-9.7	-10.1	-8.8	-7.6
3H	23.6	24.7	24.5	25.6	26.9	-9.1	-8.0	-8.2	-7.1	-5.8
4H	27.0	28.1	27.9	29.0	30.3	-8.0	-7.0	-7.1	-6.0	-4.8
6H	30.1	31.1	31.0	32.1	33.3	-6.7	-5.7	-5.8	-4.8	-3.5
8H	31.4	32.4	32.3	33.4	34.6	-6.0	-5.0	-5.1	-4.0	-2.8
12H	32.9	33.8	33.8	34.8	36.1	-5.1	-4.1	-4.1	-3.1	-1.9
4H 2H	16.2	17.2	17.1	18.2	19.4	3.8	4.9	4.7	5.8	7.0
3H	23.5	24.4	24.4	25.4	26.6	3.6	4.5	4.5	5.5	6.8
4H	27.2	28.1	28.2	29.1	30.4	3.5	4.4	4.4	5.4	6.7
6H	30.8	31.5	31.7	32.5	33.9	3.5	4.3	4.4	5.3	6.6
8H	32.4	33.1	33.3	34.1	35.4	3.5	4.2	4.4	5.2	6.6
12H	34.1	34.8	35.1	35.8	37.2	3.5	4.2	4.5	5.2	6.6
8H 4H	27.0	27.7	28.0	28.8	30.1	13.1	13.8	14.1	14.9	16.2
6H	30.7	31.3	31.7	32.4	33.7	12.9	13.6	13.9	14.6	16.0
8H	32.6	33.2	33.6	34.2	35.6	12.9	13.5	13.9	14.5	15.9
12H	34.9	35.4	35.9	36.5	37.8	12.8	13.3	13.8	14.4	15.7
12H 4H	26.9	27.6	27.9	28.6	30.0	16.4	17.1	17.4	18.1	19.5
6H	30.6	31.2	31.6	32.2	33.6	16.4	17.0	17.4	18.0	19.4
8H	32.5	33.1	33.5	34.1	35.5	16.3	16.9	17.3	17.9	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.3 / - 0.4				
1.5H	+ 0.4 / - 0.4					+ 1.0 / - 0.4				
2.0H	+ 0.4 / - 0.3					+ 1.5 / - 2.0				

CIE Pub.117 Corrected 1557 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.5)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

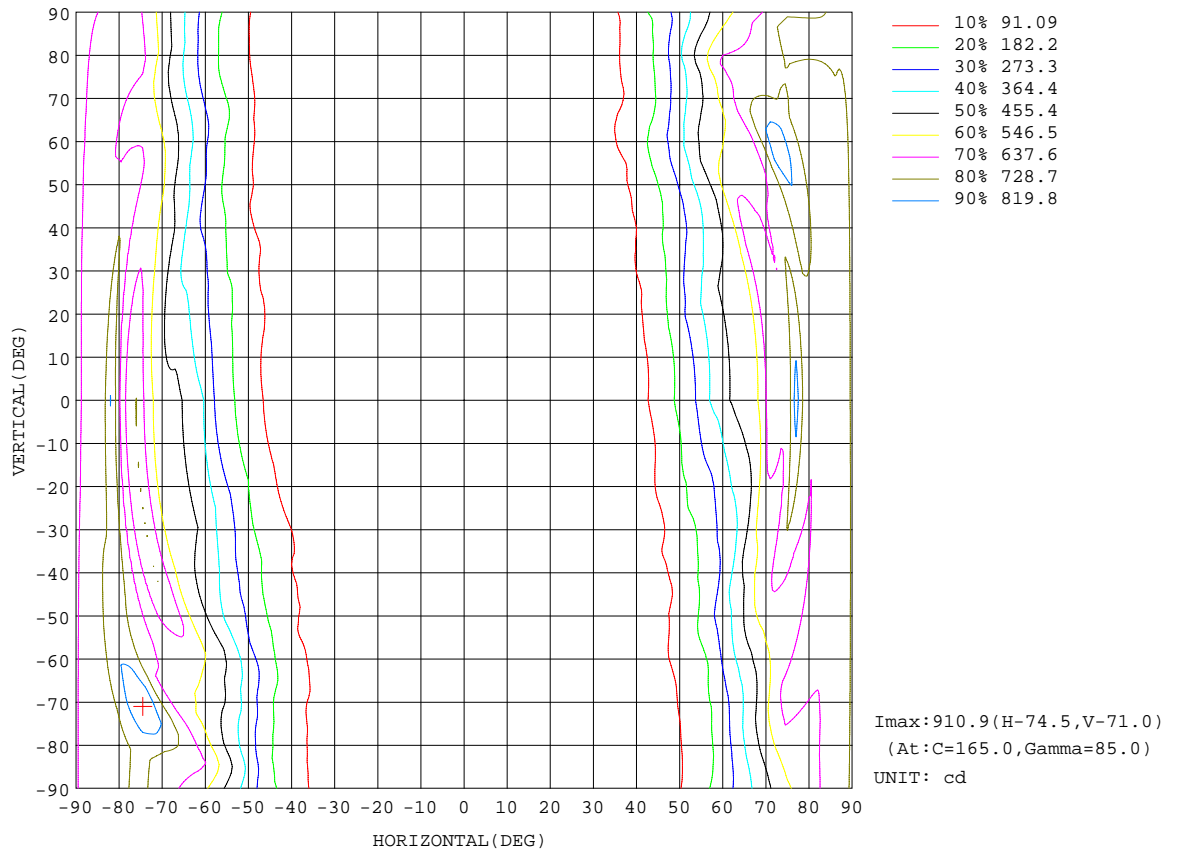
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	30	16	9	29	16	8	26	14	8	1
0.80	38	22	13	35	21	12	31	19	11	2
1.00	44	27	17	41	26	16	35	25	14	3
1.25	50	33	22	46	31	21	40	27	18	5
1.50	55	39	27	51	36	25	43	31	22	7
2.00	63	47	35	58	44	33	49	37	28	10
2.50	69	54	42	64	50	39	53	42	33	13
3.00	74	59	48	68	55	45	56	46	38	16
4.00	80	67	57	73	62	53	61	52	45	21
5.00	84	73	63	77	67	59	64	56	49	24
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:2022-04-14

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:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

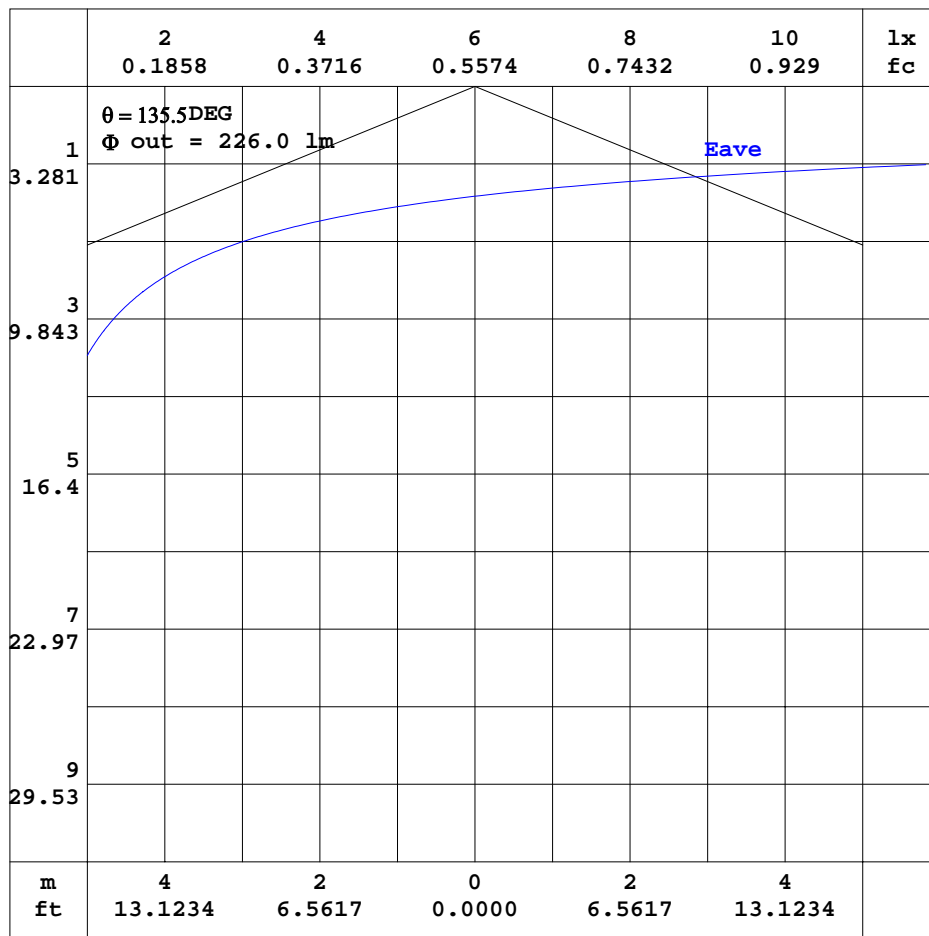


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



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

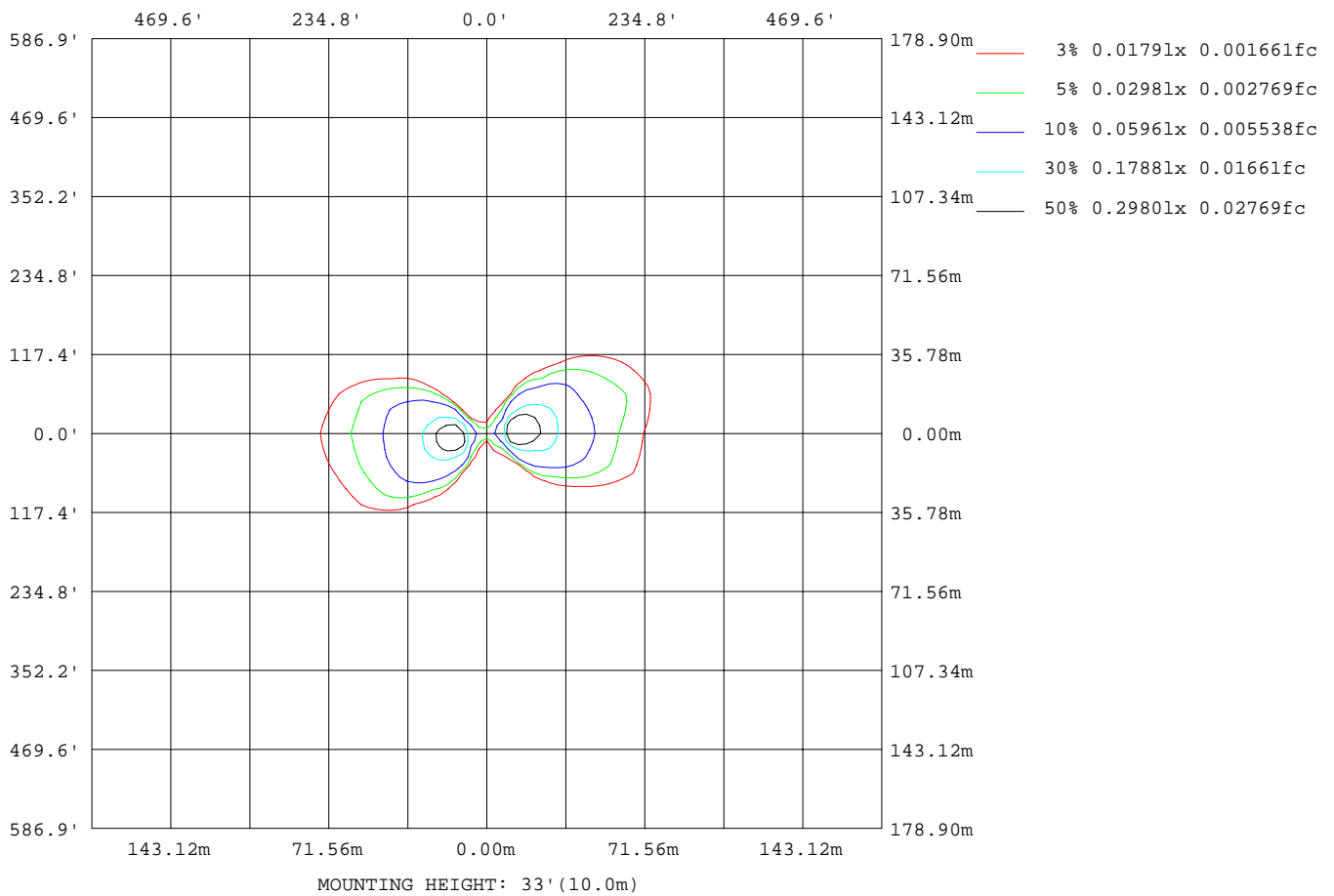
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-14

$\gamma$  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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

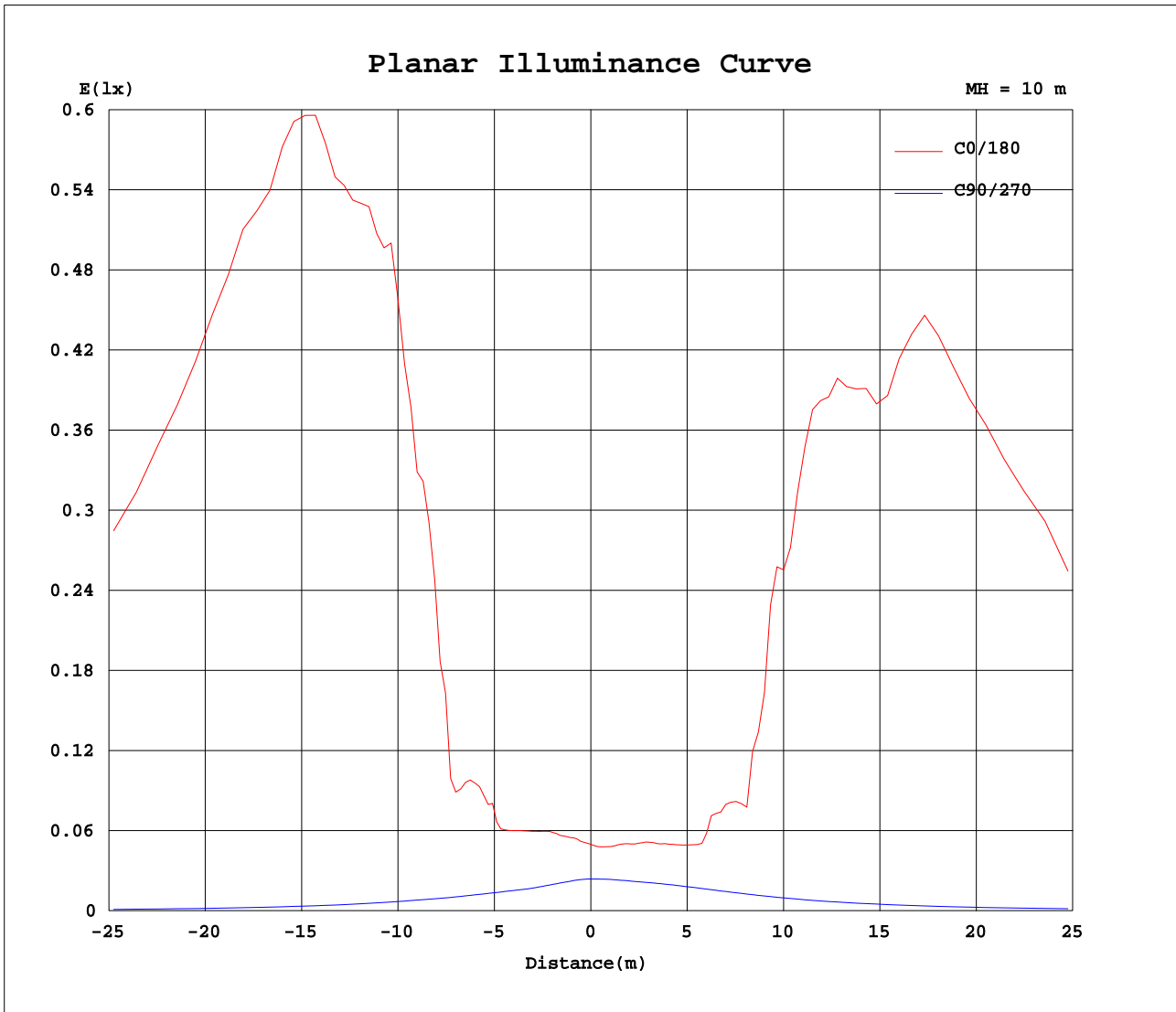
AvgL	cd/m2
L_0~180(65)av	11243
L_0~180(75)av	26055
L_0~180(85)av	75480
L_90~270(65)av	60
L_90~270(75)av	99
L_90~270(85)av	297
L_45(65)av	1627
L_45(75)av	3226
L_45(85)av	12151

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-14

$\gamma$  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: 2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	4.98	4.45	3.64	2.97	2.48	2.32	2.39	2.53	2.83	3.31	4.07	4.75	4.98	4.45	3.64	2.97	2.48	2.32	2.39
5	5.52	4.92	4.04	3.31	2.70	2.31	2.30	2.43	2.81	3.41	4.21	4.88	4.86	4.34	3.58	2.86	2.31	2.21	2.38
10	6.05	5.39	4.55	3.77	2.93	2.31	2.13	2.33	2.98	3.80	4.71	5.44	5.27	4.72	3.86	2.92	2.16	2.06	2.38
15	6.59	6.06	5.16	4.12	3.24	2.37	1.98	2.34	3.00	4.07	5.29	6.06	5.66	5.08	4.00	2.97	2.17	1.91	2.39
20	7.24	6.62	5.70	4.63	3.55	2.44	1.90	2.33	3.22	4.54	5.64	6.50	6.05	5.43	4.45	3.02	2.14	1.81	2.45
25	8.25	7.40	6.21	5.24	3.79	2.52	1.90	2.38	3.59	4.77	6.12	7.13	6.63	5.88	4.70	3.35	2.14	1.81	2.51
30	14.3	10.9	7.04	5.62	4.09	2.59	1.90	2.50	3.73	5.07	7.13	8.71	7.81	6.72	4.97	3.54	2.25	1.81	2.57
35	16.2	15.1	12.6	6.03	4.50	2.69	1.90	2.65	3.68	7.35	13.2	15.6	14.5	12.5	5.84	3.50	2.41	1.83	2.63
40	64.7	17.5	13.1	6.64	4.84	2.76	1.94	2.75	3.87	10.6	14.9	30.4	26.5	15.7	11.6	3.69	2.46	1.88	2.69
45	130	66.7	16.2	7.36	5.13	2.87	1.97	2.84	4.19	13.0	52.0	74.9	72.3	50.9	11.9	4.06	2.47	1.89	2.75
50	200	143	31.9	8.91	5.36	2.97	2.00	2.86	4.90	21.9	117	145	144	122	17.5	4.72	2.55	1.91	2.80
55	316	194	83.3	11.2	5.67	3.07	2.01	2.94	7.25	60.6	154	215	207	171	60.5	7.28	2.67	1.92	2.87
60	419	236	97.5	13.8	5.95	3.15	2.08	2.88	9.43	84.6	203	348	357	218	88.1	10.2	2.77	1.94	2.93
65	502	317	134	15.8	6.09	3.22	2.08	2.87	11.7	117	283	452	448	308	118	12.6	2.75	1.96	2.98
70	634	477	185	16.4	6.20	3.25	2.08	2.83	11.0	152	376	501	499	366	157	12.1	2.75	1.96	3.02
75	656	605	183	17.4	6.32	3.29	2.08	2.82	11.9	158	494	713	692	499	210	12.0	2.78	1.94	3.07
80	670	587	197	17.5	6.40	3.30	2.08	2.81	12.6	181	513	632	643	625	221	24.6	2.82	1.91	3.07
85	648	653	206	18.0	6.45	3.31	2.10	2.77	17.9	185	576	916	668	608	217	27.7	2.82	1.89	3.07
90	738	535	224	17.7	6.45	3.30	2.10	2.76	17.8	201	560	750	634	645	236	29.4	2.82	1.89	3.07
95	718	521	236	17.6	6.41	3.26	2.05	2.75	13.0	244	507	651	688	530	290	35.6	2.82	1.90	3.06
100	653	511	189	17.3	6.32	3.25	2.03	2.71	13.2	198	526	641	761	549	246	23.8	2.78	1.94	3.05
105	718	464	172	16.9	6.16	3.22	2.02	2.68	13.1	166	439	649	661	493	177	13.5	2.71	1.92	3.02
110	551	369	139	16.5	5.96	3.18	1.97	2.59	12.0	154	407	693	751	449	167	12.4	2.64	1.91	2.99
115	412	304	104	15.2	5.75	3.09	1.90	2.40	11.9	121	333	491	562	372	136	12.9	2.58	1.91	2.94
120	291	196	61.3	12.6	5.55	3.01	1.81	2.05	9.75	88.1	245	376	421	291	114	10.9	2.56	1.81	2.88
125	201	126	47.4	10.7	5.28	2.94	1.69	1.52	9.05	47.4	168	272	297	179	63.6	8.27	2.50	1.55	2.75
130	125	89.4	16.0	10.1	5.03	2.84	1.58	1.37	6.30	19.9	101	181	218	117	45.5	7.48	2.37	1.44	2.61
135	72.8	31.5	13.7	6.53	4.85	2.71	1.58	1.63	2.73	11.8	79.5	119	127	83.4	14.4	4.61	1.93	1.41	2.49
140	16.8	15.0	9.65	5.91	4.50	2.59	1.58	1.61	2.30	5.90	20.1	68.3	76.4	32.2	11.6	3.46	1.45	1.46	2.38
145	13.9	10.5	6.70	5.39	4.11	2.50	1.56	1.48	2.18	4.07	10.8	16.4	18.0	14.4	7.40	2.80	1.47	1.47	2.32
150	8.62	6.98	5.88	4.93	3.75	2.40	1.56	1.46	2.16	3.64	5.62	11.5	13.2	7.92	4.70	2.57	1.49	1.47	2.26
155	6.70	6.10	5.32	4.56	3.45	2.30	1.51	1.45	2.04	3.56	5.10	7.15	7.02	5.69	4.01	2.54	1.41	1.51	2.21
160	6.48	5.68	4.85	4.02	3.20	2.20	1.51	1.51	2.07	3.25	4.67	5.68	6.23	5.32	3.87	2.34	1.46	1.51	2.16
165	5.54	4.99	4.23	3.64	2.89	2.11	1.57	1.64	2.19	3.12	4.07	5.08	5.77	4.76	3.39	2.21	1.61	1.58	2.13
170	5.10	4.56	3.86	3.21	2.64	2.01	1.69	1.85	2.39	3.19	4.01	4.57	4.98	4.29	3.30	2.38	1.80	1.71	2.11
175	4.73	4.15	3.48	2.89	2.38	1.97	1.87	2.12	2.65	3.30	4.03	4.56	4.81	4.17	3.32	2.53	2.03	1.86	2.10
180	4.73	4.11	3.33	2.69	2.21	1.98	2.03	2.35	2.82	3.38	4.13	4.66	4.74	4.11	3.34	2.68	2.20	1.95	2.03

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-14

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:0.1540A P:18.15W PF:0.9822 Lamp Flux:1556.89x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C( DEG) γ (DEG)	285	300	315	330	345														
0	2.53	2.83	3.31	4.07	4.75														
5	2.65	3.07	3.56	4.36	5.13														
10	2.87	3.39	4.00	4.80	5.47														
15	3.07	3.76	4.47	5.37	5.96														
20	3.40	4.15	5.07	5.79	6.48														
25	3.60	4.67	5.47	6.45	7.43														
30	3.81	5.10	6.06	11.0	13.2														
35	4.13	5.41	7.42	14.7	15.9														
40	4.47	5.89	11.0	16.1	52.8														
45	4.79	6.50	14.2	54.0	114														
50	5.08	7.30	16.5	115	189														
55	5.36	10.3	44.9	159	297														
60	5.53	13.6	90.6	213	413														
65	5.59	14.7	130	302	483														
70	5.71	15.2	158	424	621														
75	5.88	15.9	146	521	624														
80	5.98	16.4	181	537	825														
85	6.06	16.6	193	636	735														
90	6.13	16.6	214	515	714														
95	6.14	16.6	225	515	742														
100	6.09	16.8	185	506	663														
105	5.99	16.8	171	468	738														
110	5.86	16.0	142	396	551														
115	5.70	15.3	104	316	453														
120	5.54	13.4	67.3	188	319														
125	5.36	12.4	48.2	132	210														
130	5.23	13.5	16.9	93.6	136														
135	5.04	7.02	15.0	38.0	74.5														
140	4.70	6.35	10.7	16.5	18.2														
145	4.33	5.79	7.46	12.1	15.6														
150	3.90	5.26	6.54	7.96	14.1														
155	3.54	4.81	5.75	6.92	7.45														
160	3.20	4.42	5.35	6.32	7.14														
165	2.99	3.83	4.70	5.51	6.01														
170	2.80	3.43	4.18	4.95	5.32														
175	2.58	3.11	3.70	4.42	4.89														
180	2.36	2.82	3.40	4.12	4.66														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-14

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: