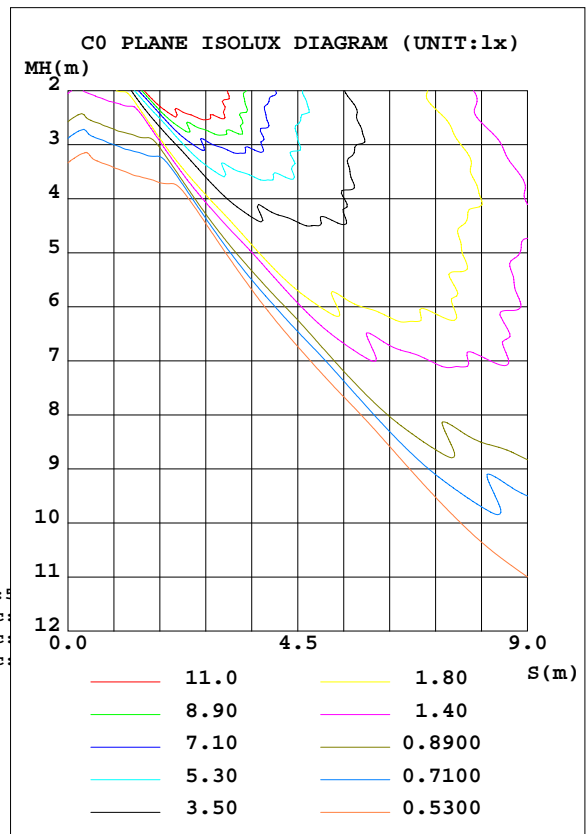
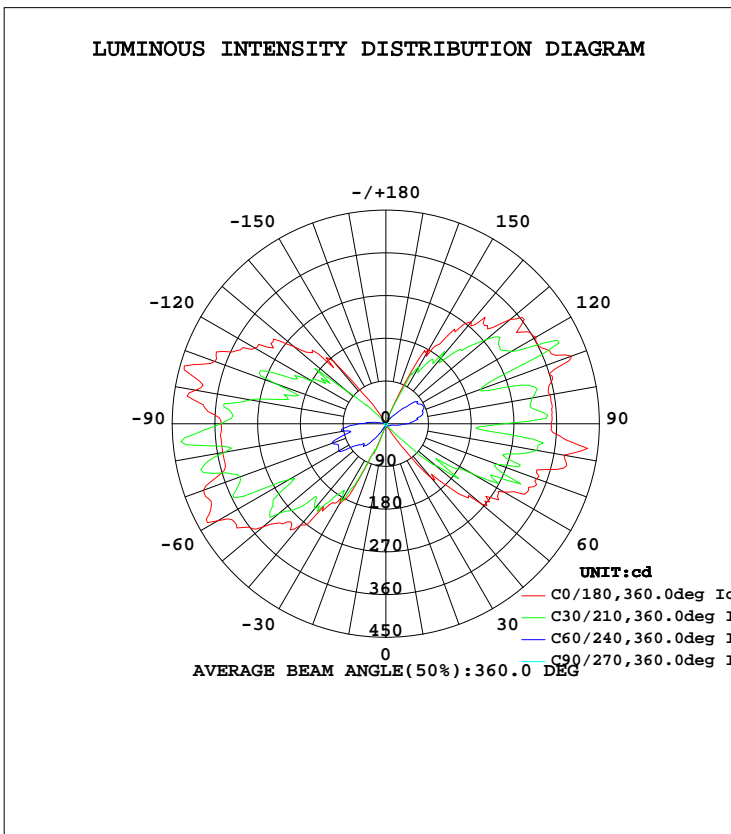


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.56 lm/W			
MODEL	ASD-OLCLS-2N18CC-BK	I <sub>max</sub> (cd)	561.1	S/MH(C0/180)	8.64
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1737.5	η UP, DN(C0-180)	25.0,24.9
NOMINAL FLUX(lm)	1737.5	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	24.0,26.1
LAMPS INSIDE	1	η up(%)	49.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	51.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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	6.060	4.690	4.668	6.972	7.948	6.958	4.579	4.737	0- 10	0.5426	0.5426	0.03,0.03
20	8.138	4.777	4.417	9.301	28.49	20.63	4.409	5.456	10- 20	2.171	2.713	0.16,0.16
30	11.79	6.333	4.186	76.34	194.9	104.4	4.144	7.054	20- 30	15.00	17.71	1.02,1.02
40	149.9	8.437	4.013	159.8	278.3	169.8	3.901	9.125	30- 40	41.16	58.87	3.39,3.39
50	262.8	11.19	3.794	217.9	337.9	164.8	3.570	17.99	40- 50	83.81	142.7	8.21,8.21
60	288.5	49.80	3.597	247.1	408.9	281.0	3.308	93.58	50- 60	132.4	275.0	15.8,15.8
70	338.1	187.8	3.474	233.2	408.7	267.8	3.050	159.4	60- 70	182.7	457.7	26.3,26.3
80	381.1	153.5	3.308	254.9	349.3	246.7	2.946	253.7	70- 80	207.2	665.0	38.3,38.3
90	348.0	234.8	3.227	231.6	346.9	274.4	3.043	309.9	80- 90	221.6	886.5	51,51
100	351.2	217.1	3.331	151.5	407.6	189.3	3.686	260.1	90-100	228.8	1115	64.2,64.2
110	416.5	174.1	3.905	162.1	383.6	130.6	4.052	226.0	100-110	201.2	1317	75.8,75.8
120	365.4	233.8	3.913	91.56	318.8	59.27	3.743	184.9	110-120	171.6	1488	85.6,85.6
130	342.1	216.1	4.266	10.94	253.4	6.940	4.165	206.9	120-130	128.4	1617	93,93
140	281.0	108.4	4.295	5.706	172.1	4.521	4.055	116.0	130-140	74.40	1691	97.3,97.3
150	181.6	41.71	3.693	3.493	9.255	3.635	3.867	52.06	140-150	33.70	1725	99.3,99.3
160	9.006	6.614	3.455	3.682	6.017	3.601	3.582	7.432	150-160	11.03	1736	99.9,99.9
170	5.350	4.871	3.551	4.060	5.296	3.913	3.690	5.161	160-170	1.397	1737	100,100
180	6.023	4.937	3.740	4.941	6.058	4.922	3.732	4.949	170-180	0.4322	1738	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

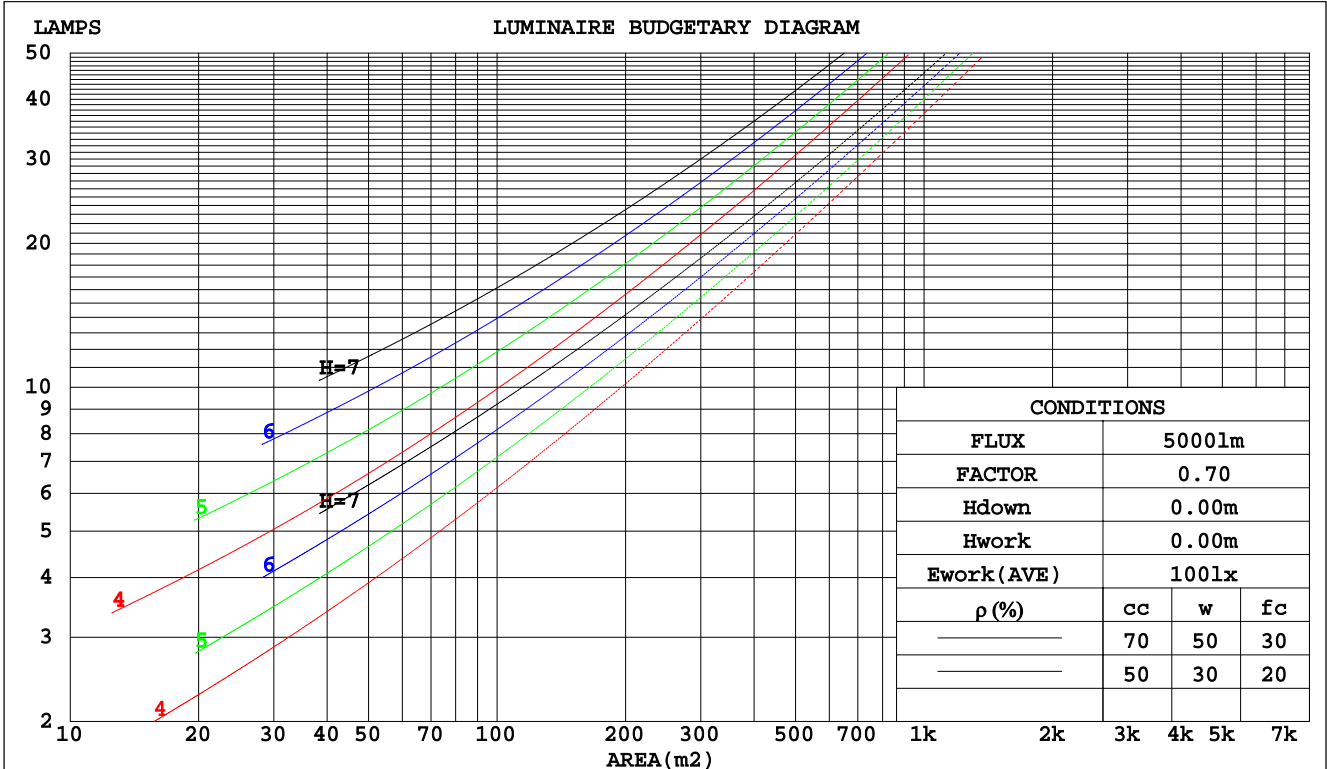
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-06

$\gamma$  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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	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	.84	.78	.72	.77	.71	.66	.64	.59	.55	.51	.48	.45	.40	.37	.35	.29
2.0	.70	.61	.53	.63	.56	.49	.52	.46	.40	.41	.36	.32	.31	.27	.24	.19
3.0	.59	.49	.41	.54	.45	.38	.43	.37	.31	.34	.29	.24	.25	.21	.18	.13
4.0	.51	.41	.33	.46	.37	.30	.37	.30	.24	.29	.23	.19	.21	.17	.13	.09
5.0	.44	.34	.27	.40	.31	.25	.33	.25	.20	.25	.20	.15	.19	.14	.11	.07
6.0	.39	.29	.22	.36	.27	.20	.29	.22	.16	.22	.17	.12	.16	.12	.09	.05
7.0	.35	.25	.19	.32	.23	.17	.26	.19	.14	.20	.14	.10	.15	.10	.07	.04
8.0	.31	.22	.16	.28	.20	.15	.23	.16	.12	.18	.13	.09	.13	.09	.06	.03
9.0	.28	.20	.14	.26	.18	.13	.21	.15	.10	.16	.11	.08	.12	.08	.05	.03
10.0	.26	.18	.12	.23	.16	.11	.19	.13	.09	.15	.10	.07	.11	.07	.04	.02



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-06

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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 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	.464	.264	.084	.442	.252	.080	.400	.229	.073	.362	.209	.067	.326	.189	.061	
2.0	.378	.207	.064	.358	.197	.061	.319	.178	.055	.284	.159	.050	.252	.142	.045	
3.0	.324	.173	.052	.306	.164	.049	.271	.147	.045	.238	.131	.040	.208	.115	.036	
4.0	.285	.148	.044	.268	.140	.042	.236	.125	.037	.207	.111	.033	.179	.097	.030	
5.0	.255	.130	.038	.240	.123	.036	.210	.109	.032	.183	.096	.029	.157	.084	.025	
6.0	.231	.116	.033	.216	.109	.031	.189	.097	.028	.164	.085	.025	.140	.074	.022	
7.0	.211	.104	.030	.197	.098	.028	.172	.087	.025	.149	.076	.022	.127	.066	.019	
8.0	.194	.095	.027	.182	.089	.025	.158	.079	.023	.136	.069	.020	.116	.059	.017	
9.0	.179	.087	.024	.168	.082	.023	.146	.072	.021	.126	.063	.018	.107	.054	.016	
10.0	.167	.080	.022	.156	.076	.021	.136	.067	.019	.117	.058	.017	.099	.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	.564	.564	.564	.482	.482	.482	.329	.329	.329	.189	.189	.189	.060	.060	.060	
1.0	.567	.531	.498	.485	.456	.429	.332	.314	.297	.191	.181	.173	.061	.058	.056	
2.0	.562	.510	.466	.482	.439	.403	.330	.304	.281	.190	.177	.165	.061	.057	.054	
3.0	.556	.495	.447	.476	.427	.388	.327	.297	.272	.189	.173	.160	.061	.056	.053	
4.0	.548	.484	.435	.470	.418	.378	.324	.292	.266	.187	.171	.158	.060	.056	.052	
5.0	.541	.475	.427	.464	.411	.372	.320	.287	.262	.185	.169	.156	.060	.055	.051	
6.0	.533	.468	.422	.458	.405	.367	.316	.284	.260	.183	.167	.154	.059	.055	.051	
7.0	.526	.462	.417	.452	.401	.364	.312	.281	.258	.182	.165	.153	.059	.054	.051	
8.0	.519	.457	.414	.447	.396	.361	.309	.278	.256	.180	.164	.153	.058	.054	.051	
9.0	.513	.452	.412	.442	.393	.359	.306	.276	.255	.178	.163	.152	.058	.054	.050	
10.0	.507	.449	.410	.437	.390	.358	.303	.274	.254	.177	.162	.152	.057	.053	.050	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 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	17.4	18.6	18.3	19.5	20.6	-7.0	-5.8	-6.1	-4.9	-3.7
3H	22.0	23.1	22.9	24.0	25.2	-5.5	-4.4	-4.6	-3.5	-2.3
4H	24.4	25.4	25.3	26.3	27.6	-4.5	-3.5	-3.6	-2.5	-1.3
6H	26.6	27.5	27.5	28.5	29.7	-3.2	-2.2	-2.3	-1.3	-0.1
8H	27.8	28.7	28.7	29.7	30.9	-2.5	-1.5	-1.6	-0.6	0.6
12H	29.1	30.0	30.1	31.0	32.2	-1.6	-0.7	-0.7	0.2	1.5
4H 2H	17.5	18.5	18.4	19.4	20.6	9.6	10.6	10.4	11.5	12.7
3H	22.5	23.4	23.4	24.3	25.6	10.0	10.9	11.0	11.9	13.1
4H	25.2	26.0	26.1	26.9	28.2	9.9	10.7	10.8	11.7	13.0
6H	27.7	28.4	28.6	29.4	30.7	9.8	10.5	10.8	11.5	12.8
8H	29.0	29.7	30.0	30.7	32.0	9.8	10.4	10.7	11.4	12.7
12H	30.5	31.1	31.4	32.1	33.4	9.7	10.4	10.7	11.4	12.7
8H 4H	25.2	25.9	26.1	26.8	28.1	16.4	17.1	17.4	18.1	19.4
6H	28.1	28.7	29.1	29.7	31.0	16.6	17.2	17.6	18.2	19.5
8H	29.7	30.3	30.7	31.3	32.6	16.6	17.1	17.6	18.1	19.5
12H	31.5	32.0	32.5	33.0	34.3	16.5	17.0	17.5	18.0	19.4
12H 4H	25.1	25.7	26.1	26.7	28.0	18.6	19.2	19.6	20.2	21.6
6H	28.1	28.7	29.1	29.7	31.0	19.6	20.1	20.6	21.2	22.5
8H	29.9	30.3	30.9	31.4	32.7	19.8	20.2	20.8	21.3	22.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.2				
2.0H	+ 0.5 / - 0.7					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 1738 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.9)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

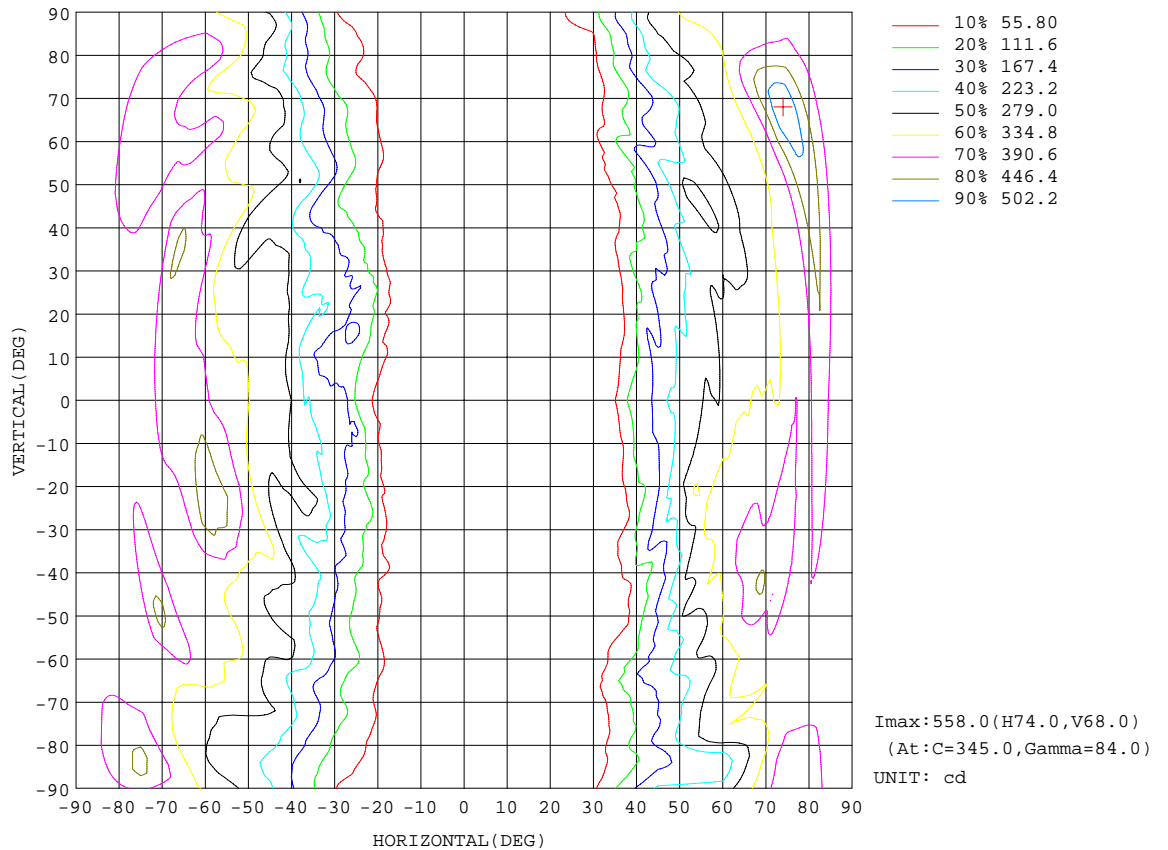
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	32	18	11	30	18	10	27	16	9	2
0.80	40	25	16	38	24	15	33	21	14	4
1.00	47	32	22	44	30	21	38	28	18	7
1.25	54	38	28	50	36	26	43	31	23	10
1.50	59	44	33	55	41	31	47	36	27	12
2.00	68	53	42	62	49	40	53	42	34	16
2.50	73	60	49	67	55	46	57	47	40	20
3.00	77	65	55	71	60	51	60	51	44	23
4.00	83	72	63	77	67	59	64	57	50	27
5.00	87	77	69	80	72	64	67	61	55	30
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:2022-04-06

$\gamma$  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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

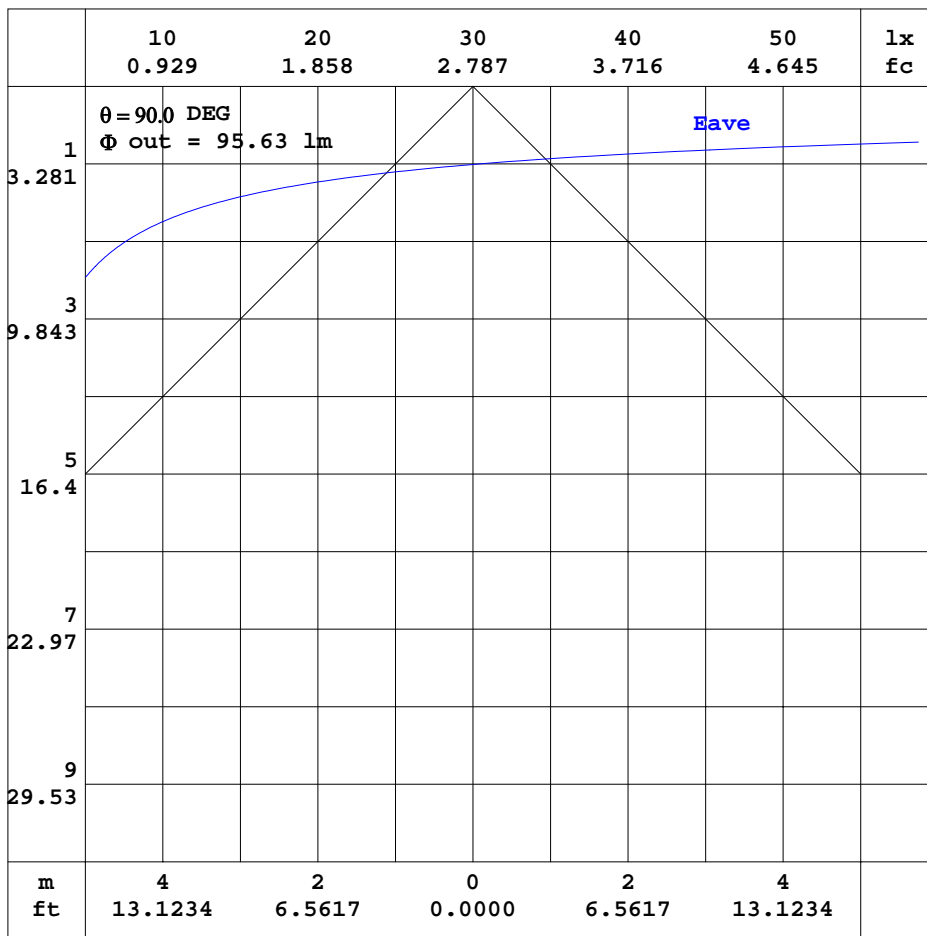


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-06

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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 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.

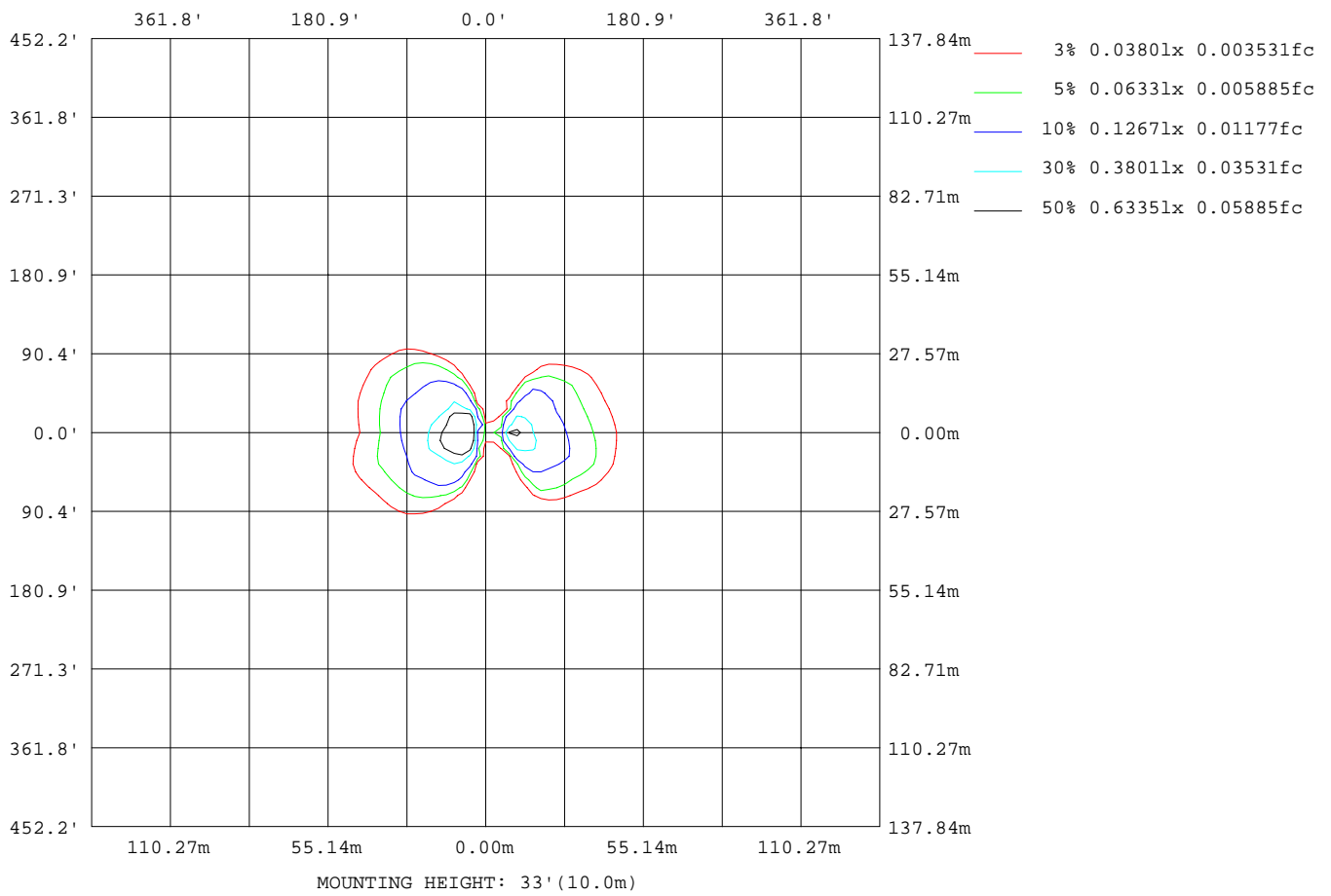
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-06

$\gamma$  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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 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:2022-04-06

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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

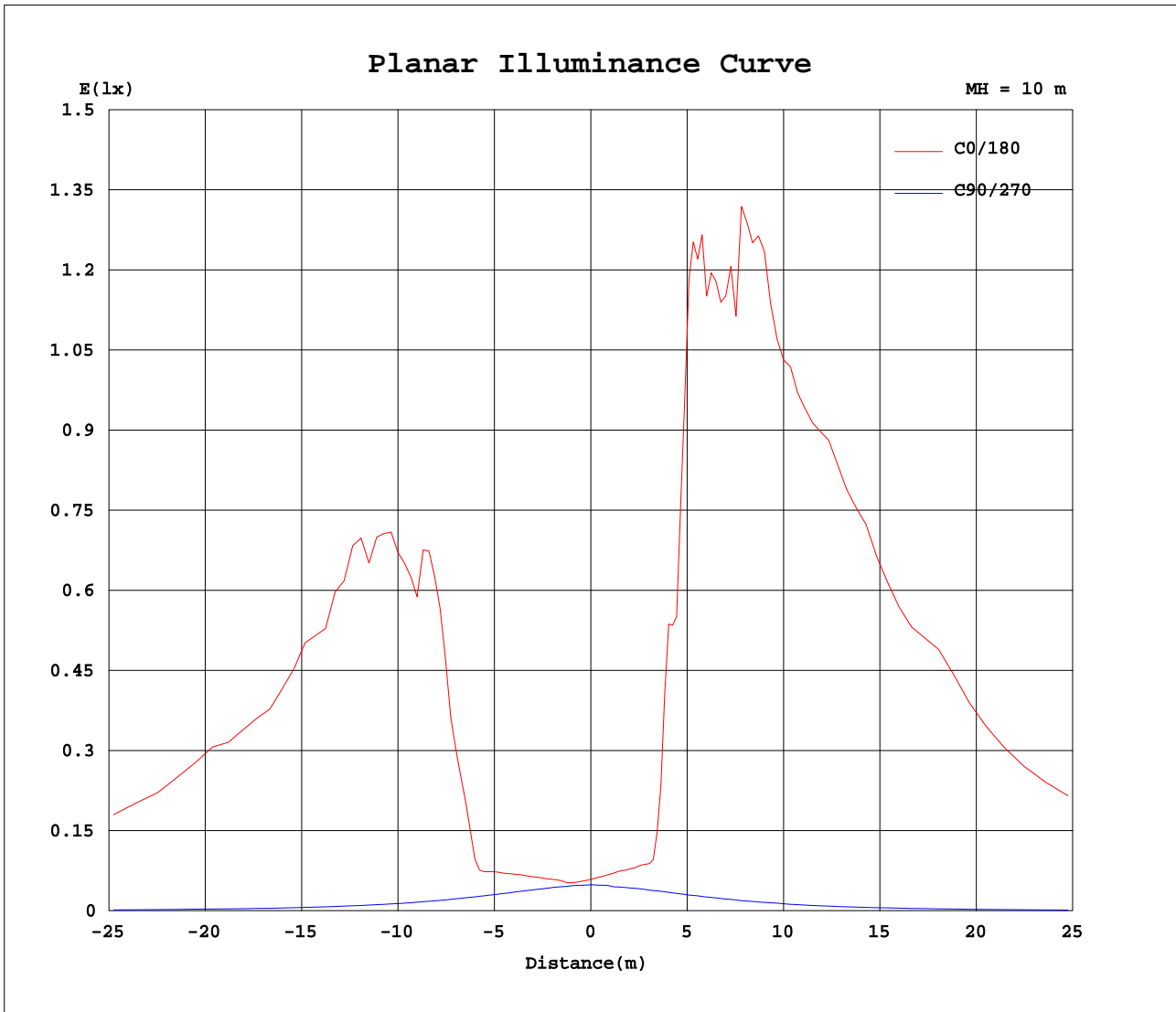
AvgL	cd/m2
L_0~180(65)av	8727
L_0~180(75)av	13956
L_0~180(85)av	41717
L_90~270(65)av	79
L_90~270(75)av	124
L_90~270(85)av	357
L_45(65)av	4763
L_45(75)av	8425
L_45(85)av	25612

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

$\gamma$  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: 2022-04-06

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:0.1588A P:18.57W PF:0.9746 Lamp Flux:1737.5x1 lm		
NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 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	5.90	6.02	5.99	5.78	5.25	4.95	4.88	5.00	5.19	5.70	6.11	6.34	5.90	6.02	5.99	5.78	5.25	4.95	4.88
5	5.37	5.40	5.32	5.18	4.82	4.69	4.78	5.18	5.58	6.41	7.02	7.32	6.82	6.97	6.88	6.44	5.73	5.18	4.80
10	6.06	5.54	4.95	4.69	4.43	4.44	4.67	5.25	5.86	6.97	7.87	8.36	7.95	7.94	7.83	6.96	5.90	5.17	4.58
15	6.94	6.44	5.44	4.47	4.14	4.17	4.51	5.22	6.20	7.77	9.04	9.92	9.57	9.51	8.78	8.12	6.49	5.27	4.52
20	8.14	7.40	6.21	4.78	3.99	3.92	4.42	5.37	6.90	9.30	34.2	54.6	28.5	48.7	48.5	20.6	7.15	5.40	4.41
25	9.60	8.64	7.18	5.54	3.99	3.74	4.29	5.40	7.25	37.2	84.8	148	102	97.0	93.6	56.2	7.94	5.47	4.26
30	11.8	10.4	8.40	6.33	4.62	3.62	4.19	5.46	11.6	76.3	146	183	195	139	189	104	14.2	5.67	4.14
35	55.2	21.7	9.90	7.25	5.17	3.56	4.09	5.72	35.4	147	180	237	209	161	186	170	33.1	5.76	4.02
40	150	91.2	11.9	8.44	5.82	3.54	4.01	5.76	55.8	160	278	254	278	227	234	170	53.8	5.84	3.90
45	190	151	46.8	9.90	6.47	3.64	3.87	5.88	62.4	197	269	291	292	330	239	178	67.3	5.80	3.74
50	263	216	137	11.2	7.31	4.05	3.79	5.91	78.4	218	262	303	338	315	294	165	69.3	5.79	3.57
55	273	302	128	20.6	8.14	4.45	3.71	5.88	81.3	238	347	394	383	299	291	175	82.4	5.96	3.45
60	288	353	213	49.8	8.75	4.74	3.60	5.88	114	247	295	500	409	322	235	281	115	5.76	3.31
65	332	366	284	104	9.46	5.10	3.56	5.79	124	288	295	437	406	403	356	260	110	5.36	3.14
70	338	423	250	188	11.0	5.47	3.47	5.82	106	233	368	359	409	457	327	268	120	5.11	3.05
75	372	454	255	157	11.7	5.77	3.40	5.58	126	259	342	401	350	383	398	296	91.8	4.70	2.99
80	381	377	323	153	18.5	6.15	3.31	5.63	100	255	292	385	349	425	344	247	88.9	4.67	2.95
85	378	364	264	143	30.3	6.59	3.27	5.96	82.4	217	278	384	349	416	433	265	82.7	4.29	2.96
90	348	440	248	235	47.2	6.80	3.23	5.65	57.0	232	329	400	347	389	347	274	57.6	4.33	3.04
95	351	441	322	230	59.0	7.09	3.26	5.36	60.0	244	317	392	383	398	331	222	33.8	3.95	3.44
100	351	445	312	217	66.2	7.31	3.33	5.05	49.1	152	307	420	408	387	290	189	15.3	3.67	3.69
105	364	431	313	229	80.6	7.60	3.66	4.53	19.3	195	256	481	440	327	215	150	6.36	3.51	3.87
110	417	367	212	174	82.8	7.72	3.90	4.23	8.85	162	279	508	384	283	249	131	6.02	3.29	4.05
115	372	409	403	146	87.3	7.17	4.03	4.05	7.77	134	261	345	358	303	244	90.3	5.36	3.08	4.16
120	365	417	305	234	83.0	6.39	3.91	3.58	6.90	91.6	242	321	319	311	177	59.3	4.80	2.96	3.74
125	336	300	290	232	82.2	6.00	3.82	3.23	5.99	49.6	189	274	296	251	167	16.9	4.22	2.85	3.70
130	342	334	277	216	55.5	5.56	4.27	2.98	5.08	10.9	154	199	253	183	105	6.94	3.19	2.78	4.17
135	294	310	222	166	31.7	5.12	4.50	3.00	3.71	7.53	88.7	168	219	156	48.0	5.97	2.70	2.77	4.35
140	281	282	183	108	17.3	4.65	4.29	3.02	2.91	5.71	12.7	56.4	172	66.7	7.97	4.52	3.10	2.85	4.05
145	226	200	164	88.1	8.56	4.34	3.97	3.06	3.38	3.82	6.86	12.7	56.0	17.2	5.68	3.49	2.91	2.99	3.72
150	182	157	139	41.7	5.63	4.24	3.69	3.03	3.02	3.49	4.96	7.47	9.26	6.94	4.48	3.64	2.95	3.15	3.87
155	90.0	96.2	59.0	11.4	5.22	4.16	3.49	3.09	3.06	3.81	4.62	5.34	6.51	5.30	4.61	3.56	3.04	3.10	3.58
160	9.01	10.5	8.97	6.61	4.85	4.04	3.45	3.14	3.17	3.68	5.07	5.76	6.02	5.65	4.48	3.60	3.14	3.18	3.58
165	6.11	6.33	6.21	5.54	4.51	3.95	3.49	3.27	3.33	3.84	4.50	5.01	5.43	4.91	4.39	3.74	3.70	3.33	3.64
170	5.35	5.31	5.19	4.87	4.33	3.90	3.55	3.44	3.60	4.06	4.71	5.08	5.30	4.97	4.52	3.91	3.51	3.49	3.69
175	5.30	5.19	5.00	4.64	4.18	3.85	3.68	3.69	3.94	4.37	4.87	5.19	5.31	5.06	4.66	4.15	3.74	3.65	3.73
180	6.02	5.88	5.44	4.94	4.19	3.80	3.74	3.89	4.44	4.94	5.36	5.58	6.06	5.85	5.44	4.92	4.19	3.79	3.73

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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]  
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NAME: ASD-OLCLS-2N18CC-PC-BK-BZ 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	5.00	5.19	5.70	6.11	6.34														
5	4.76	4.74	5.11	5.41	5.59														
10	4.40	4.37	4.74	5.10	5.50														
15	4.18	4.10	4.65	5.85	6.51														
20	3.89	3.98	5.46	6.64	7.46														
25	3.68	4.45	6.15	7.69	8.66														
30	3.53	4.99	7.05	8.81	10.2														
35	3.45	5.48	8.01	10.5	19.1														
40	3.45	6.19	9.13	19.6	72.2														
45	3.89	6.85	10.4	66.2	191														
50	4.24	7.67	18.0	157	195														
55	4.58	8.32	53.7	155	244														
60	4.90	9.14	93.6	223	274														
65	5.23	10.0	154	280	275														
70	5.70	10.7	159	252	283														
75	6.09	19.5	160	291	315														
80	6.57	36.3	254	307	374														
85	7.12	50.6	268	329	534														
90	7.43	93.6	310	388	380														
95	7.59	97.3	302	464	446														
100	8.09	105	260	400	417														
105	8.06	106	225	312	437														
110	8.28	105	226	313	411														
115	8.69	112	257	240	333														
120	8.77	97.7	185	300	338														
125	8.16	72.1	188	296	342														
130	7.16	48.1	207	277	273														
135	5.92	29.8	153	220	204														
140	5.14	10.9	116	162	205														
145	4.66	7.77	131	124	171														
150	4.42	6.73	52.1	139	110														
155	4.31	6.10	13.3	71.4	126														
160	4.23	5.47	7.43	10.5	18.7														
165	4.18	4.83	5.85	6.74	6.96														
170	4.12	4.64	5.16	5.46	5.50														
175	4.03	4.45	4.90	5.25	5.35														
180	3.88	4.46	4.95	5.37	5.60														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
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