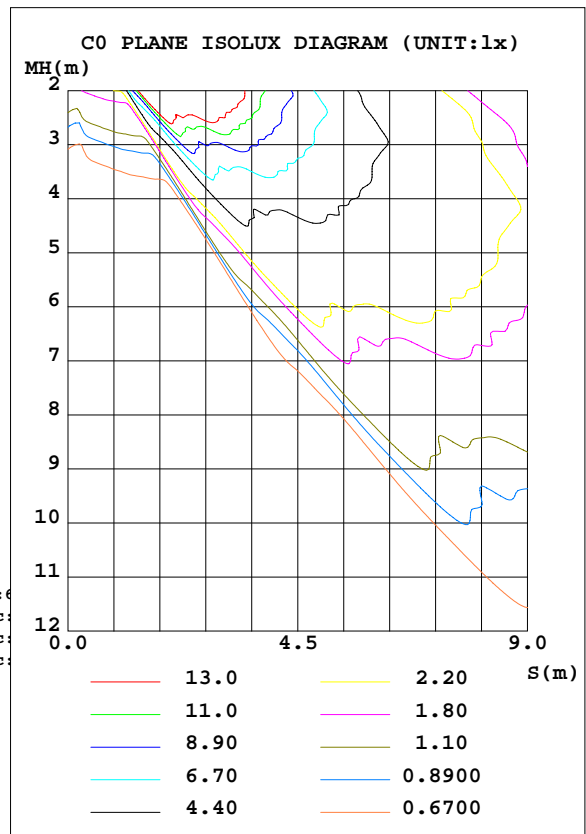
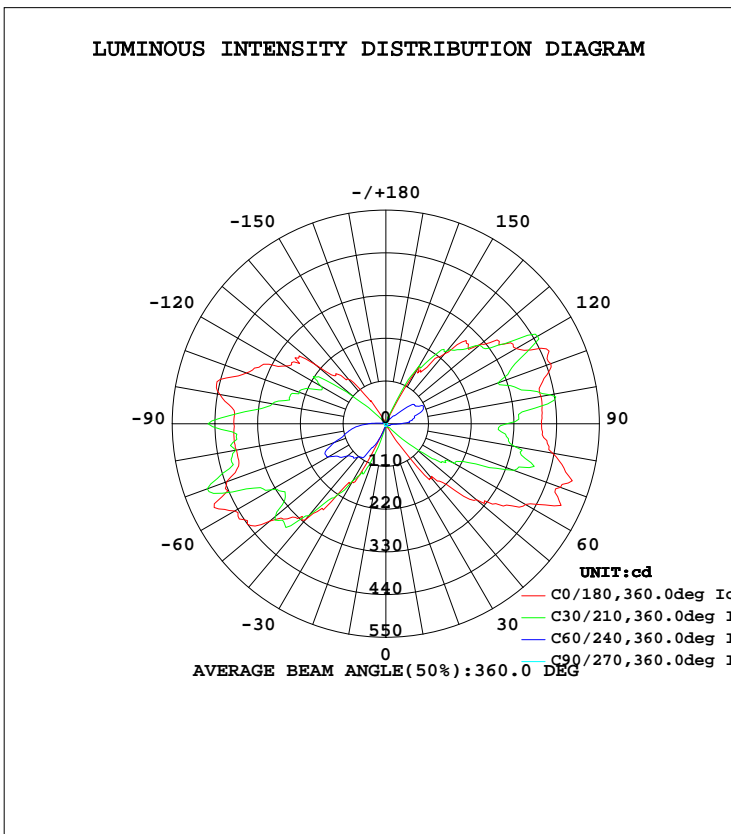


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.89 lm/W			
MODEL	ASD-OLCLS-2D18CC-BK	I _{max} (cd)	559.0	S/MH(C0/180)	8.83
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1974.2	η UP, DN(C0-180)	23.0,26.7
NOMINAL FLUX(lm)	1974.2	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	24.9,25.4
LAMPS INSIDE	1	η up(%)	47.9	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	52.1	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	7.854	5.526	7.002	13.00	8.730	9.133	6.671	6.444	0- 10	0.7701	0.7701	0.04,0.04
20	10.29	5.192	6.655	132.6	15.35	41.38	6.334	5.477	10- 20	6.633	7.403	0.37,0.37
30	28.16	7.615	6.309	168.0	172.2	158.3	5.823	7.524	20- 30	27.22	34.62	1.75,1.75
40	185.1	9.881	5.842	258.3	323.5	196.1	5.222	9.860	30- 40	60.61	95.23	4.82,4.82
50	304.2	12.79	5.212	336.7	390.2	206.4	4.694	12.80	40- 50	103.7	199.0	10.1,10.1
60	416.1	49.89	4.645	251.8	449.5	270.2	4.120	56.21	50- 60	153.7	352.7	17.9,17.9
70	478.7	178.0	4.176	317.9	436.0	340.4	3.712	146.7	60- 70	199.9	552.6	28,28
80	435.9	156.8	3.844	275.6	390.9	277.9	3.439	195.6	70- 80	237.5	790.1	40,40
90	400.9	234.9	3.621	177.5	391.6	244.4	3.608	325.0	80- 90	238.0	1028	52.1,52.1
100	405.6	303.7	4.230	178.5	433.5	220.2	5.058	322.2	90-100	246.0	1274	64.5,64.5
110	452.1	213.4	5.272	182.7	382.7	144.3	5.797	325.5	100-110	225.1	1499	75.9,75.9
120	388.0	243.1	4.514	29.10	297.9	63.13	5.520	301.7	110-120	194.0	1693	85.8,85.8
130	319.4	254.5	5.481	8.543	235.9	10.02	5.502	206.0	120-130	138.8	1832	92.8,92.8
140	235.5	159.7	4.725	5.781	149.5	7.331	5.783	178.1	130-140	83.29	1915	97,97
150	170.9	63.89	5.723	4.083	21.19	3.925	5.011	74.18	140-150	43.24	1958	99.2,99.2
160	7.751	9.976	4.336	4.402	6.927	4.094	4.398	21.15	150-160	13.11	1972	99.9,99.9
170	5.974	5.561	4.502	4.911	5.862	4.475	4.556	6.386	160-170	2.104	1974	100,100
180	6.678	6.016	4.645	6.543	6.705	5.989	4.648	6.563	170-180	0.5157	1974	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

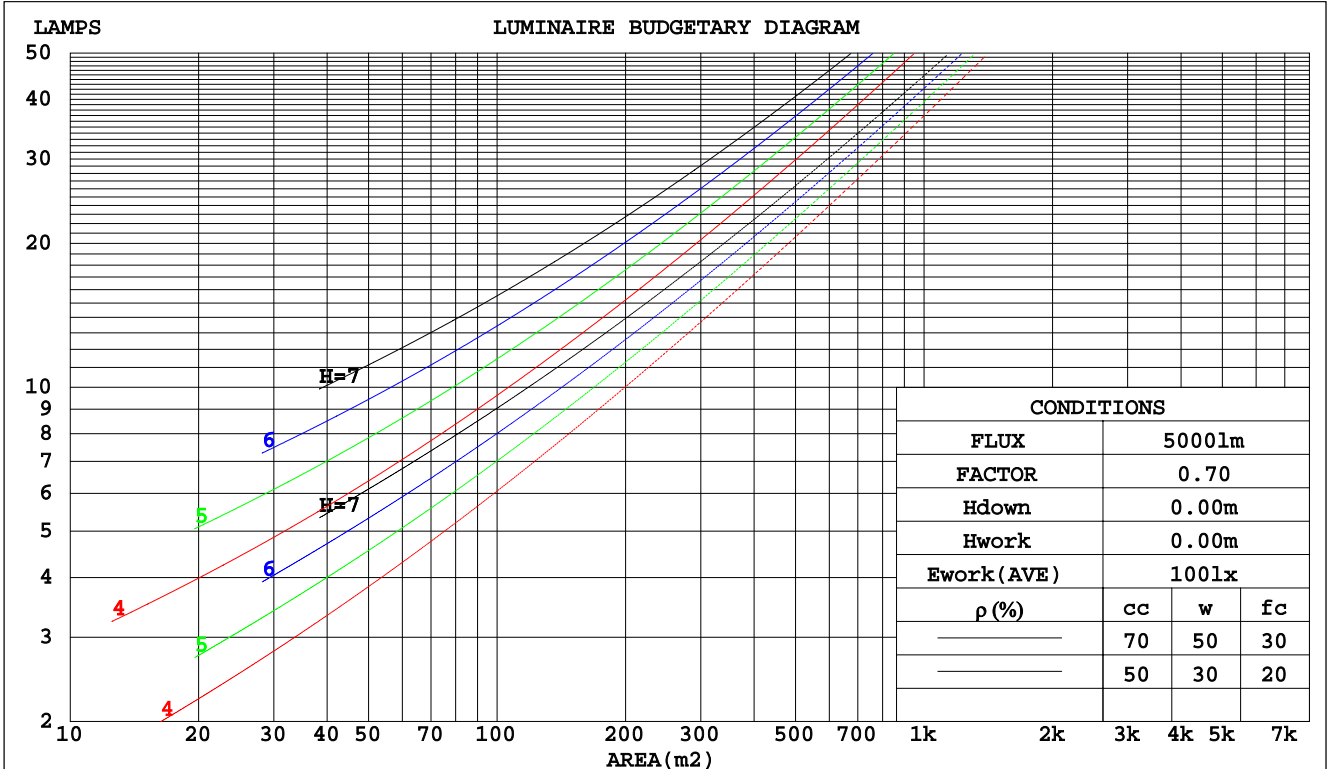
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-21

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	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	1.08	1.08	1.08	.00	.00	.00	.84	.84	.84	.71	.71	.71	.58	.58	.58	.52
1.0	.85	.78	.73	.78	.72	.67	.64	.60	.56	.52	.49	.46	.41	.39	.36	.31
2.0	.70	.62	.54	.64	.56	.50	.53	.47	.41	.42	.37	.33	.32	.29	.26	.21
3.0	.60	.50	.42	.54	.46	.39	.44	.38	.32	.35	.30	.25	.27	.23	.19	.14
4.0	.51	.41	.34	.47	.38	.31	.38	.31	.25	.30	.24	.20	.23	.18	.15	.11
5.0	.45	.35	.28	.41	.32	.25	.33	.26	.21	.26	.21	.16	.20	.15	.12	.08
6.0	.40	.30	.23	.36	.27	.21	.29	.22	.17	.23	.18	.13	.17	.13	.09	.06
7.0	.35	.26	.20	.32	.24	.18	.26	.19	.14	.21	.15	.11	.16	.11	.08	.05
8.0	.32	.23	.17	.29	.21	.15	.24	.17	.12	.19	.13	.09	.14	.10	.07	.04
9.0	.29	.20	.15	.26	.19	.13	.22	.15	.11	.17	.12	.08	.13	.09	.06	.03
10.0	.26	.18	.13	.24	.17	.12	.20	.14	.09	.16	.11	.07	.12	.08	.05	.03



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	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	.456	.259	.082	.434	.248	.079	.393	.225	.072	.355	.205	.066	.320	.186	.060	
2.0	.373	.205	.063	.353	.195	.060	.316	.176	.055	.281	.158	.049	.249	.141	.044	
3.0	.321	.171	.051	.303	.162	.049	.269	.146	.044	.237	.130	.040	.207	.115	.036	
4.0	.283	.147	.043	.267	.139	.041	.235	.125	.037	.206	.110	.033	.178	.097	.030	
5.0	.254	.129	.037	.238	.122	.036	.209	.109	.032	.182	.096	.029	.157	.084	.025	
6.0	.230	.115	.033	.216	.109	.031	.189	.097	.028	.164	.085	.025	.140	.074	.022	
7.0	.210	.104	.029	.197	.098	.028	.172	.087	.025	.149	.076	.022	.127	.066	.019	
8.0	.193	.094	.027	.181	.089	.025	.158	.079	.023	.137	.069	.020	.116	.060	.017	
9.0	.179	.087	.024	.168	.082	.023	.146	.072	.021	.126	.063	.018	.107	.054	.016	
10.0	.167	.080	.022	.156	.075	.021	.136	.067	.019	.117	.058	.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	.556	.556	.556	.475	.475	.475	.324	.324	.324	.186	.186	.186	.060	.060	.060	
1.0	.559	.523	.491	.478	.449	.423	.327	.309	.292	.188	.179	.170	.060	.058	.055	
2.0	.554	.502	.459	.474	.432	.397	.325	.299	.277	.187	.174	.162	.060	.056	.053	
3.0	.547	.487	.440	.469	.420	.381	.322	.292	.267	.186	.171	.158	.060	.055	.052	
4.0	.540	.476	.428	.463	.411	.371	.318	.287	.262	.184	.168	.155	.059	.055	.051	
5.0	.532	.467	.419	.457	.404	.365	.315	.282	.258	.182	.166	.153	.059	.054	.050	
6.0	.524	.460	.414	.451	.398	.360	.311	.279	.255	.180	.164	.151	.058	.054	.050	
7.0	.517	.454	.409	.445	.393	.357	.307	.276	.253	.179	.162	.150	.058	.053	.050	
8.0	.510	.449	.406	.439	.389	.354	.304	.273	.251	.177	.161	.150	.057	.053	.050	
9.0	.504	.444	.404	.434	.385	.352	.301	.271	.250	.175	.160	.149	.057	.053	.049	
10.0	.498	.440	.402	.429	.382	.351	.298	.269	.249	.174	.159	.149	.056	.052	.049	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm										
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K					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	17.1	18.3	18.0	19.2	20.3	-7.5	-6.4	-6.7	-5.5	-4.3
3H	22.2	23.3	23.1	24.2	25.4	-5.5	-4.4	-4.6	-3.5	-2.4
4H	24.6	25.6	25.5	26.6	27.7	-4.3	-3.3	-3.4	-2.3	-1.1
6H	27.0	27.9	27.9	28.9	30.1	-2.8	-1.9	-1.9	-0.9	0.3
8H	28.2	29.1	29.1	30.0	31.3	-2.0	-1.1	-1.1	-0.2	1.1
12H	29.5	30.4	30.4	31.3	32.5	-1.1	-0.2	-0.2	0.7	1.9
4H 2H	17.1	18.1	18.0	19.0	20.2	9.0	10.0	9.9	10.9	12.1
3H	22.8	23.7	23.7	24.6	25.9	9.6	10.5	10.5	11.4	12.7
4H	25.5	26.3	26.4	27.2	28.5	9.5	10.3	10.4	11.2	12.5
6H	28.2	28.9	29.1	29.9	31.1	9.4	10.1	10.3	11.1	12.4
8H	29.6	30.3	30.6	31.3	32.6	9.4	10.0	10.3	11.0	12.3
12H	31.1	31.7	32.1	32.7	34.0	9.4	10.0	10.3	11.0	12.3
8H 4H	25.5	26.2	26.5	27.2	28.5	17.0	17.7	18.0	18.7	20.0
6H	28.6	29.2	29.6	30.2	31.5	17.1	17.7	18.1	18.7	20.0
8H	30.3	30.9	31.3	31.9	33.2	17.0	17.6	18.0	18.6	19.9
12H	32.3	32.8	33.3	33.8	35.1	17.0	17.5	18.0	18.5	19.8
12H 4H	25.4	26.1	26.4	27.1	28.4	19.0	19.6	19.9	20.6	21.9
6H	28.6	29.1	29.5	30.1	31.4	19.5	20.1	20.5	21.1	22.4
8H	30.4	30.9	31.4	31.9	33.2	19.6	20.1	20.6	21.1	22.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.1				
2.0H	+ 0.2 / - 0.3					+ 0.7 / - 0.4				

CIE Pub.117 Corrected 1974 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

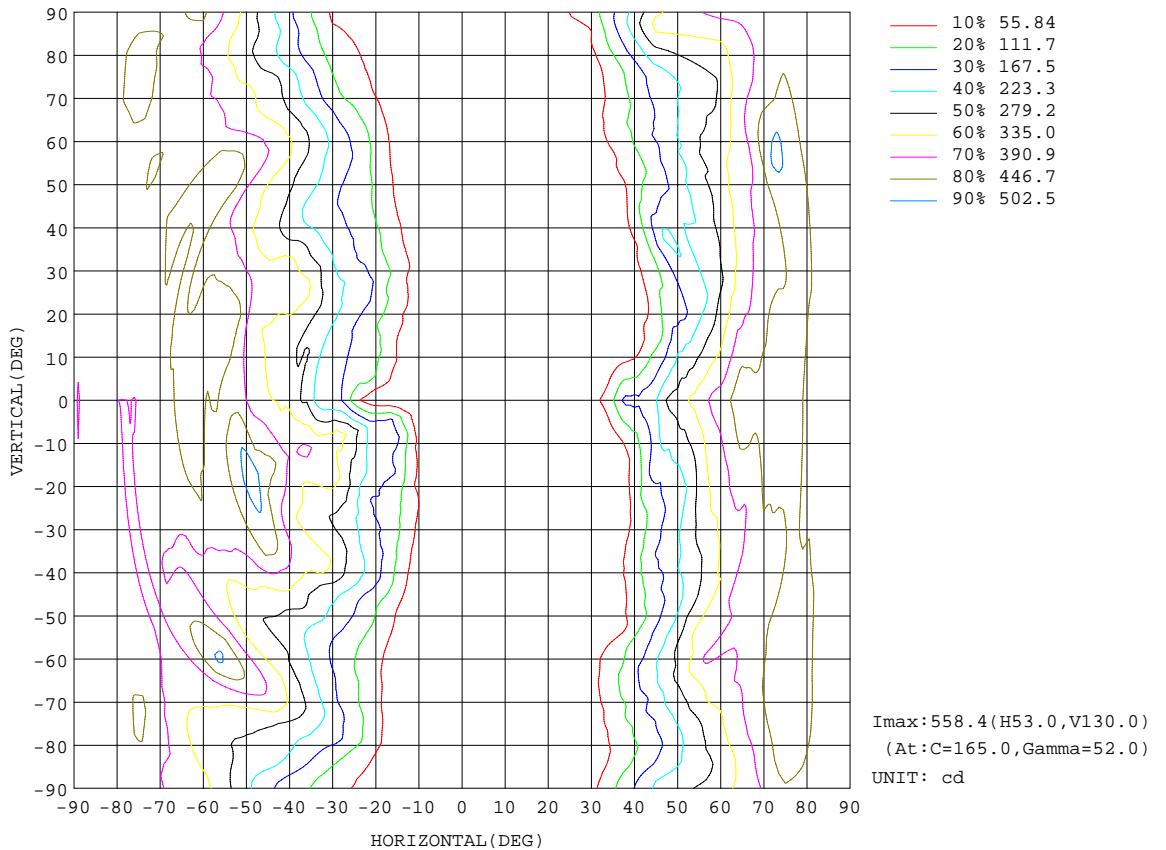
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	33	19	12	31	19	11	28	17	10	3
0.80	41	26	17	39	25	17	34	22	15	6
1.00	48	33	23	45	31	22	39	30	20	8
1.25	55	40	29	51	37	28	44	33	25	11
1.50	60	45	35	56	42	33	48	37	29	14
2.00	69	54	44	63	51	41	54	44	36	18
2.50	74	61	50	68	57	47	58	49	41	21
3.00	78	66	56	72	61	53	61	53	45	24
4.00	84	73	65	77	68	60	65	58	52	28
5.00	88	78	70	81	73	65	68	62	56	31
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:2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

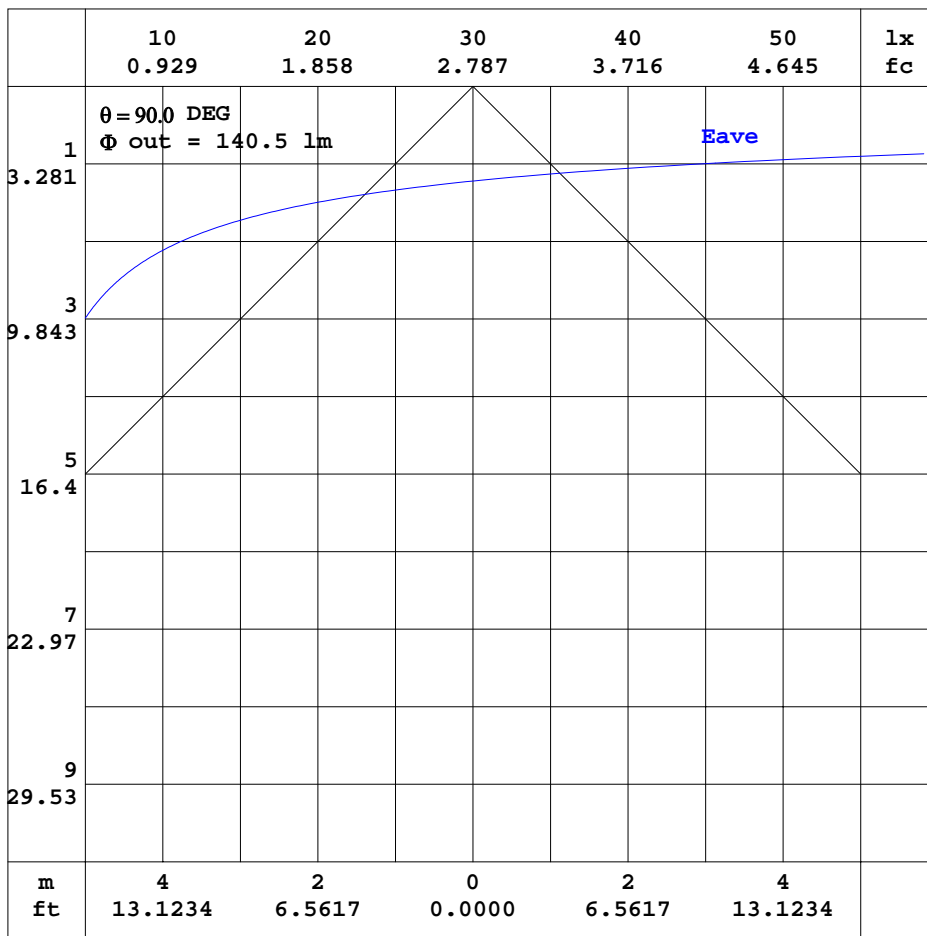


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



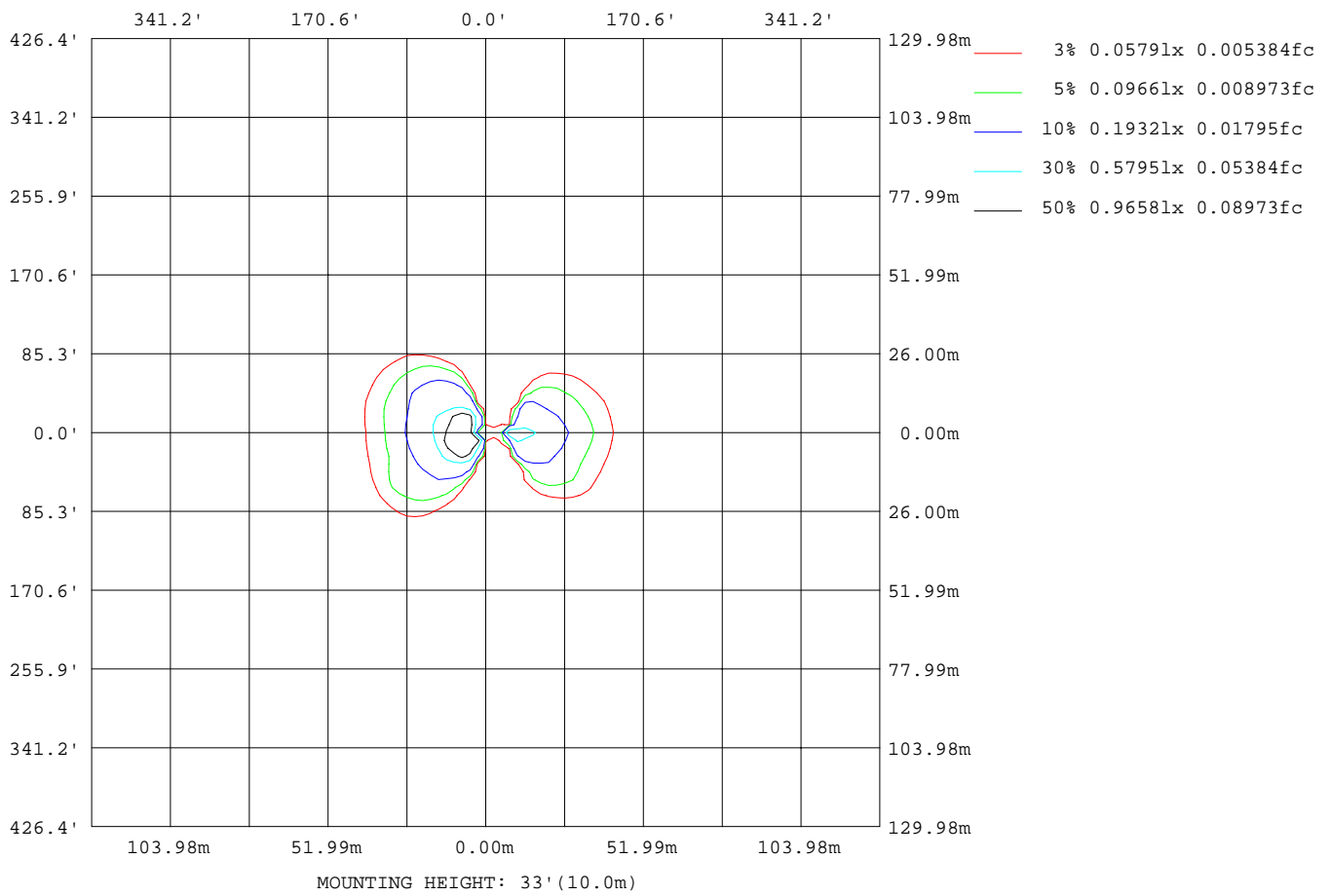
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	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:2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

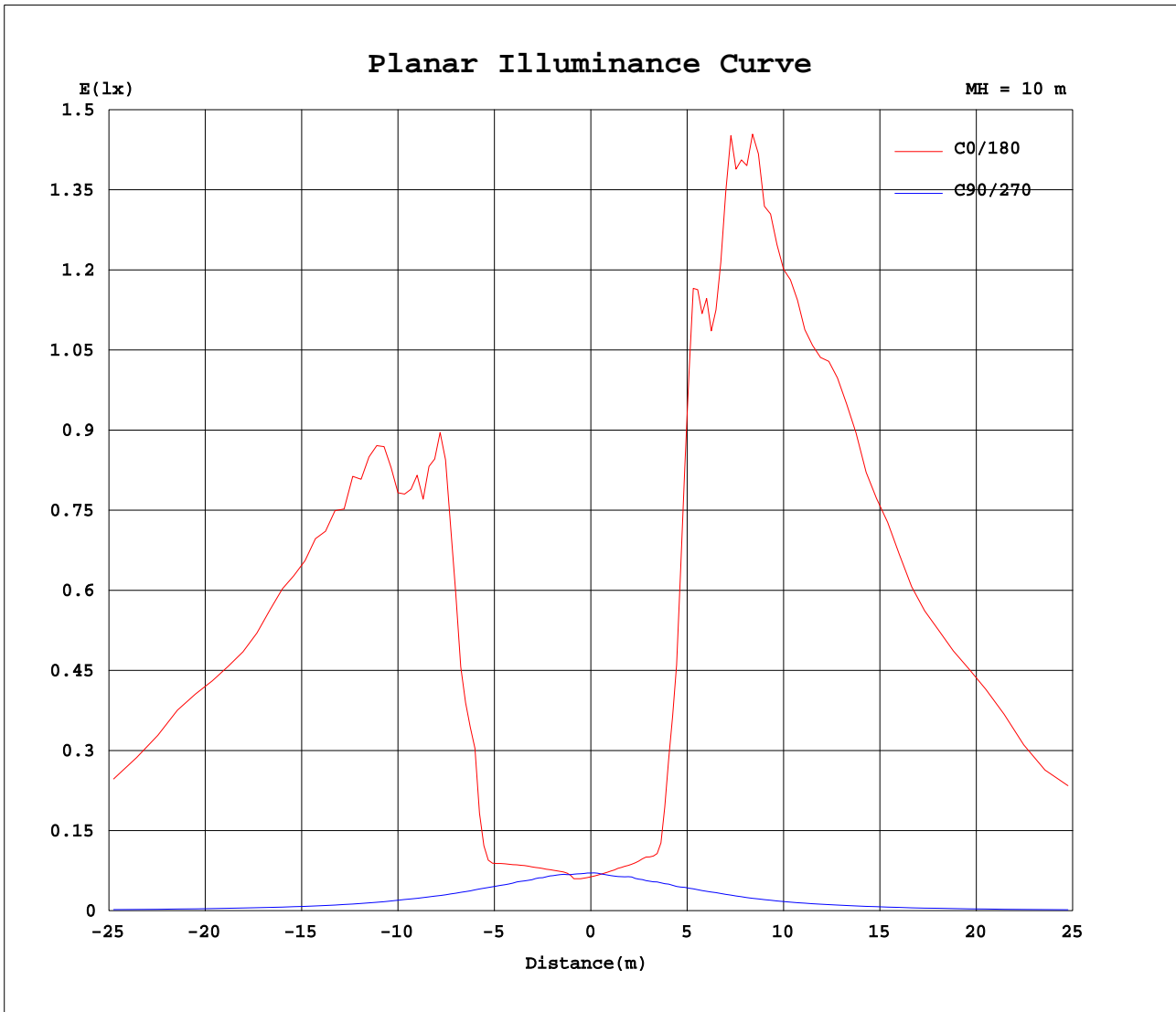
AvgL	cd/m2
L_0~180(65)av	11658
L_0~180(75)av	16824
L_0~180(85)av	45939
L_90~270(65)av	98
L_90~270(75)av	145
L_90~270(85)av	408
L_45(65)av	4879
L_45(75)av	9597
L_45(85)av	27636

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-21

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	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	6.37	7.54	7.52	6.98	7.42	7.10	7.07	7.28	7.79	8.35	9.00	9.03	6.37	7.54	7.52	6.98	7.42	7.10	7.07
5	6.08	6.53	6.45	6.13	6.71	6.70	6.93	7.67	8.88	9.76	10.6	11.0	7.33	8.95	8.64	7.93	8.14	7.23	6.77
10	7.85	5.97	5.76	5.53	6.21	6.52	7.00	8.47	9.61	13.0	27.4	26.3	8.73	11.1	10.3	9.13	8.52	7.65	6.67
15	8.94	7.42	5.65	5.10	5.51	6.05	6.86	8.62	14.8	48.7	128	122	10.8	24.9	22.2	10.6	10.0	7.97	6.49
20	10.3	8.38	7.37	5.19	5.03	5.51	6.65	8.75	41.5	133	194	190	15.4	95.8	84.5	41.4	21.6	8.30	6.33
25	11.9	9.67	8.33	6.80	4.68	5.09	6.40	8.89	83.3	171	208	280	86.3	159	142	87.5	51.9	7.93	6.00
30	28.2	11.2	9.61	7.62	4.54	4.79	6.31	9.53	114	168	275	375	172	204	168	158	70.7	8.11	5.82
35	108	13.1	11.0	8.72	5.39	4.50	6.00	9.64	145	223	346	368	245	237	233	208	107	8.25	5.61
40	185	55.9	12.7	9.88	6.44	4.28	5.84	10.1	175	258	296	391	324	280	309	196	112	8.16	5.22
45	221	149	30.5	11.2	7.14	4.14	5.62	10.1	198	324	328	446	340	310	368	211	120	7.93	4.94
50	304	201	92.7	12.8	7.98	4.09	5.21	9.63	156	337	407	520	390	346	371	206	129	7.87	4.69
55	369	226	175	17.2	8.91	4.27	4.89	9.19	152	276	451	464	435	467	317	206	148	7.79	4.42
60	416	323	206	49.9	9.86	5.45	4.65	8.78	129	252	353	437	450	468	340	270	171	7.45	4.12
65	498	354	238	128	10.7	5.95	4.38	8.80	130	268	303	419	488	424	397	336	173	7.06	3.92
70	479	393	351	178	11.8	6.38	4.18	8.40	153	318	410	385	436	433	490	340	142	6.63	3.71
75	479	410	387	166	12.8	6.82	3.98	7.63	186	369	485	392	392	442	407	302	112	6.19	3.54
80	436	462	337	157	13.6	7.36	3.84	7.12	188	276	340	402	391	448	392	278	92.2	5.89	3.44
85	408	490	310	162	18.8	7.86	3.72	6.56	115	256	297	456	393	461	387	247	71.5	5.46	3.40
90	401	439	311	235	38.5	8.41	3.62	6.13	75.7	177	357	413	392	418	458	244	45.7	5.08	3.61
95	403	446	352	327	60.8	9.02	3.68	5.76	59.3	185	411	339	392	386	363	267	22.1	4.69	4.62
100	406	470	430	304	70.5	9.50	4.23	5.22	22.8	179	377	348	434	378	297	220	9.15	4.34	5.06
105	418	466	352	258	76.6	9.98	5.00	4.79	10.1	184	296	317	442	428	258	180	8.63	4.04	5.44
110	452	493	307	213	100	10.4	5.27	4.44	9.13	183	220	300	383	443	236	144	8.29	3.83	5.80
115	456	494	368	224	107	10.6	4.88	4.05	7.68	86.8	174	295	355	346	213	89.0	7.11	3.62	5.99
120	388	405	451	243	91.2	9.42	4.51	3.79	6.70	29.1	143	241	298	266	191	63.1	6.51	3.41	5.52
125	355	419	353	304	87.6	7.76	5.36	3.59	5.96	10.1	88.9	202	271	199	212	14.1	5.74	3.28	4.78
130	319	350	315	255	50.1	6.24	5.48	3.44	5.20	8.54	34.0	161	236	182	100	10.0	4.90	3.30	5.50
135	293	331	270	170	29.3	5.66	4.77	3.51	3.56	7.30	10.8	49.9	182	108	27.2	8.38	3.74	3.87	6.27
140	235	360	244	160	16.7	5.33	4.72	3.57	3.40	5.78	8.89	11.6	150	38.6	11.3	7.33	3.32	4.07	5.78
145	169	332	211	137	10.0	5.23	5.58	3.61	3.60	4.12	7.02	9.59	80.8	11.4	9.11	5.28	3.54	3.72	4.98
150	171	208	174	63.9	12.5	5.12	5.72	3.73	3.58	4.08	5.13	8.04	21.2	9.57	6.70	3.92	3.56	3.74	5.01
155	28.5	123	66.0	11.4	7.18	5.00	4.31	3.81	3.74	4.25	4.97	5.47	11.5	6.54	4.78	4.14	3.62	3.84	5.27
160	7.75	11.6	13.4	9.98	5.72	4.89	4.34	3.99	3.96	4.40	5.03	5.89	6.93	5.45	5.31	4.09	3.74	3.90	4.40
165	6.57	7.16	6.43	5.82	5.35	4.82	4.40	4.13	4.42	4.58	5.20	5.58	6.86	5.51	4.93	4.25	4.13	4.08	4.49
170	5.97	6.13	5.99	5.56	5.17	4.76	4.50	4.35	4.51	4.91	5.46	5.69	5.86	5.61	5.12	4.47	4.23	4.28	4.56
175	5.92	5.96	5.77	5.30	5.01	4.70	4.59	4.61	4.87	5.27	5.84	6.06	5.88	5.73	5.33	4.73	4.52	4.47	4.62
180	6.68	6.87	6.60	6.02	4.89	4.61	4.64	4.83	6.09	6.54	6.96	7.51	6.71	6.86	6.63	5.99	4.92	4.62	4.65

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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:0.1522A P:17.80W PF:0.9753 Lamp Flux:1974.2x1 lm		
NAME: ASD-OLCLS-2D18CC-BK/BZ 4000K	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	7.28	7.79	8.35	9.00	9.03														
5	6.77	7.05	7.34	7.81	7.67														
10	6.40	6.41	6.44	6.73	6.63														
15	6.03	5.84	5.85	6.05	6.06														
20	5.58	5.37	5.48	6.00	7.49														
25	5.17	5.14	6.14	7.78	8.44														
30	4.93	5.17	7.52	8.83	9.68														
35	4.64	6.49	8.64	10.1	11.1														
40	4.39	7.41	9.86	11.7	12.9														
45	4.22	8.13	11.2	13.8	68.8														
50	4.27	8.63	12.8	60.7	135														
55	5.44	9.58	14.0	161	167														
60	5.88	10.7	56.2	220	219														
65	6.32	11.3	93.9	210	293														
70	6.85	11.6	147	266	357														
75	7.24	13.7	157	286	414														
80	7.61	29.5	196	271	511														
85	8.27	54.0	299	313	457														
90	8.72	80.8	325	418	405														
95	9.21	125	323	532	442														
100	9.76	145	322	468	427														
105	10.3	179	317	451	422														
110	10.8	198	326	495	432														
115	9.80	209	391	479	439														
120	8.02	164	302	347	490														
125	7.48	141	247	319	476														
130	6.89	101	206	350	361														
135	6.29	79.6	203	420	342														
140	5.75	32.5	178	334	286														
145	5.40	8.07	116	266	259														
150	5.32	10.5	74.2	168	194														
155	5.22	7.02	47.5	102	146														
160	5.15	6.20	21.1	74.6	74.7														
165	5.11	5.90	6.91	10.3	22.9														
170	5.05	5.74	6.39	6.68	6.53														
175	4.98	5.56	6.12	6.33	6.28														
180	4.81	6.10	6.56	6.91	7.55														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-03-21

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: