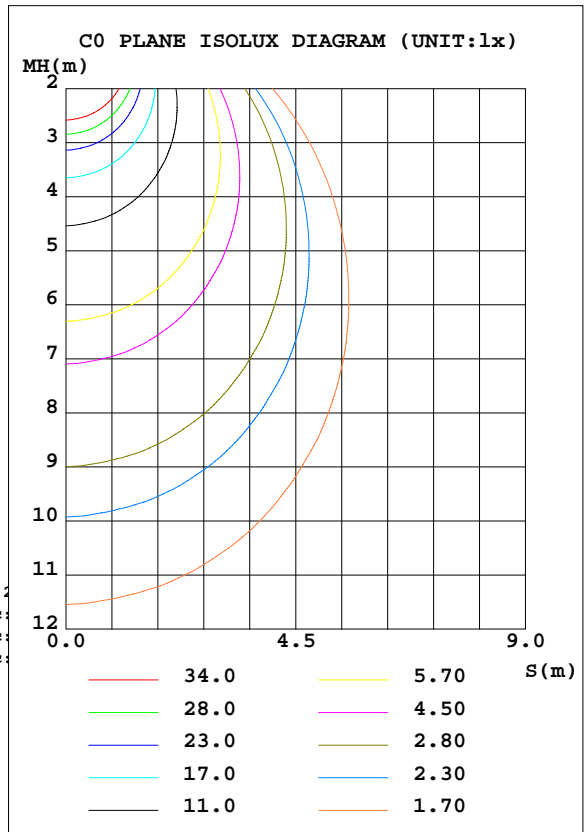
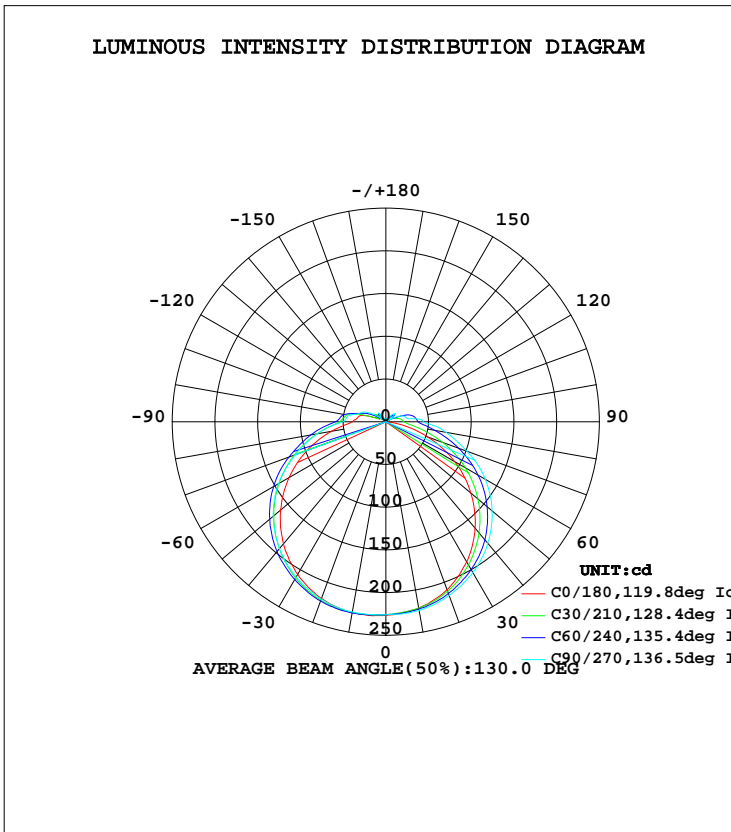


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.89 lm/W			
MODEL	ASD-OLWS-23-8D12CC-BZ/WH	I _{max} (cd)	227.6	S/MH(C0/180)	1.35
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	909.28	η UP, DN(C0-180)	4.8,42.9
NOMINAL FLUX(lm)	909.284	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.9,46.3
LAMPS INSIDE	1	η up(%)	10.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	89.2	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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	221.5	222.2	224.0	225.1	226.7	227.2	226.1	223.1	0- 10	21.50	21.50	2.36,2.36
20	209.3	213.0	216.4	218.4	220.1	223.2	221.0	215.9	10- 20	62.62	84.12	9.25,9.25
30	189.4	197.3	203.9	205.7	206.3	212.9	210.1	201.2	20- 30	97.32	181.4	20,20
40	162.6	175.6	185.6	187.3	186.5	196.7	193.9	180.2	30- 40	121.6	303.1	33.3,33.3
50	130.0	148.9	162.2	164.2	161.0	175.5	172.2	153.5	40- 50	132.6	435.7	47.9,47.9
60	92.74	117.0	134.4	136.1	131.0	149.3	145.1	121.8	50- 60	129.0	564.6	62.1,62.1
70	52.29	82.12	100.9	105.2	98.00	119.3	112.9	86.77	60- 70	111.1	675.8	74.3,74.3
80	14.17	49.31	71.59	72.64	65.01	86.40	81.98	51.59	70- 80	82.53	758.3	83.4,83.4
90	2.565	30.90	43.87	50.36	39.21	58.01	50.44	30.13	80- 90	52.83	811.2	89.2,89.2
100	2.603	27.39	24.99	43.17	32.90	49.40	43.71	25.81	90-100	38.69	849.8	93.5,93.5
110	2.688	13.57	20.32	12.56	16.39	25.63	30.92	16.62	100-110	26.59	876.4	96.4,96.4
120	2.765	8.771	3.685	17.52	11.96	7.460	18.94	5.911	110-120	13.01	889.5	97.8,97.8
130	2.850	8.362	14.72	6.732	11.19	12.86	3.228	8.513	120-130	7.883	897.3	98.7,98.7
140	2.992	4.018	10.39	4.173	3.587	8.453	13.51	4.724	130-140	5.912	903.2	99.3,99.3
150	3.108	3.162	3.232	3.174	4.140	3.498	6.522	3.289	140-150	3.198	906.4	99.7,99.7
160	3.216	3.271	3.285	3.251	3.254	3.385	3.370	3.243	150-160	1.573	908.0	99.9,99.9
170	3.320	3.358	3.374	3.335	3.332	3.381	3.416	3.312	160-170	0.9429	909.0	100,100
180	3.559	3.416	3.435	3.493	3.566	3.405	3.447	3.489	170-180	0.3236	909.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

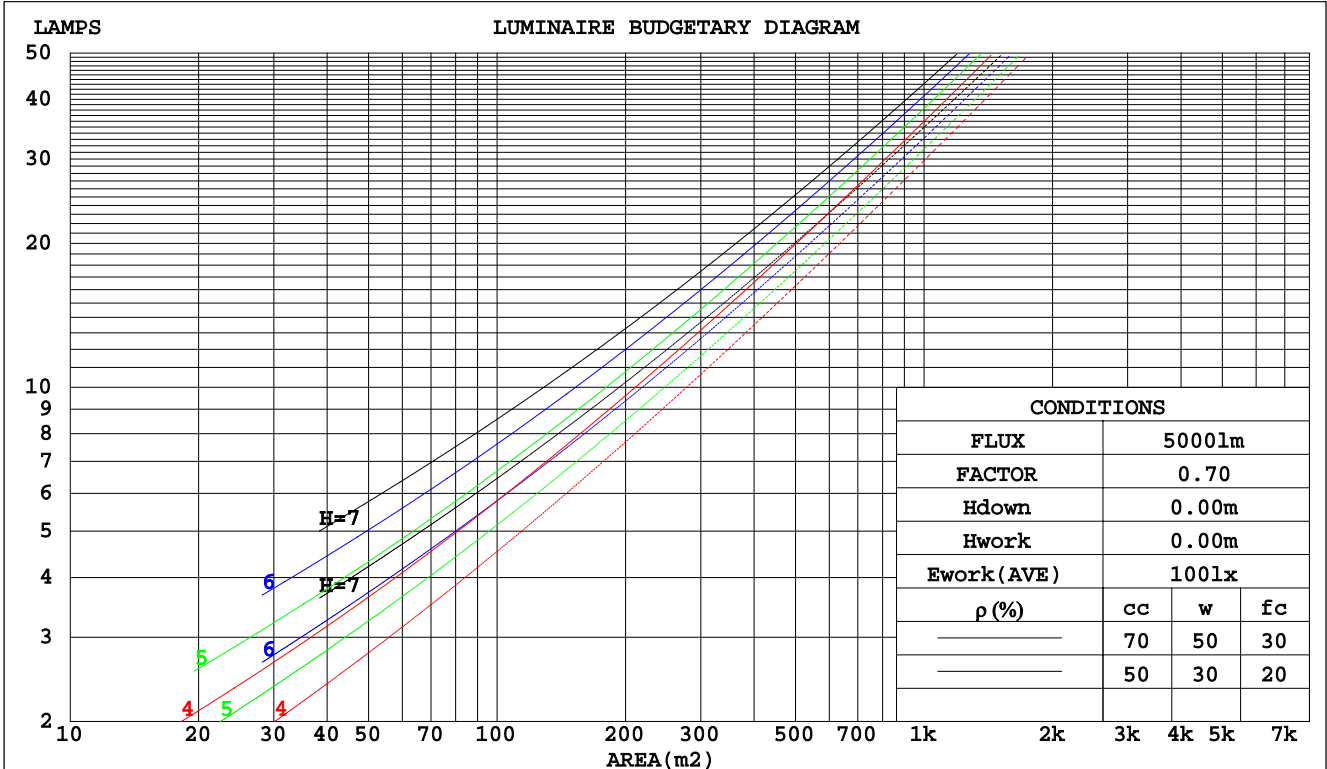
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 4000K	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	1.16	1.16	1.16	1.13	1.13	1.13	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.98	.93	.89	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.75	.73	.70
2.0	.84	.77	.70	.82	.75	.69	.76	.70	.65	.71	.66	.62	.67	.63	.59	.56
3.0	.73	.65	.57	.71	.63	.56	.66	.59	.54	.62	.56	.52	.58	.53	.49	.46
4.0	.65	.55	.48	.62	.54	.47	.58	.51	.45	.55	.49	.43	.51	.46	.42	.39
5.0	.57	.48	.41	.56	.47	.40	.52	.44	.39	.49	.42	.37	.46	.40	.36	.33
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.34	.44	.37	.32	.42	.36	.31	.29
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.40	.33	.28	.38	.32	.28	.25
8.0	.42	.33	.27	.41	.33	.27	.39	.31	.26	.37	.30	.25	.35	.29	.25	.22
9.0	.39	.30	.24	.38	.30	.24	.36	.28	.23	.34	.27	.23	.32	.26	.22	.20
10.0	.35	.27	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.30	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 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	.366	.208	.066	.356	.203	.064	.336	.193	.062	.318	.183	.059	.301	.175	.056	
2.0	.324	.178	.055	.315	.173	.053	.297	.165	.051	.281	.158	.049	.266	.150	.047	
3.0	.291	.155	.046	.283	.152	.046	.267	.145	.044	.252	.138	.042	.239	.132	.041	
4.0	.264	.137	.040	.257	.134	.040	.242	.128	.038	.229	.123	.037	.217	.118	.036	
5.0	.241	.123	.036	.234	.120	.035	.221	.115	.034	.209	.110	.033	.198	.106	.032	
6.0	.222	.111	.032	.215	.109	.031	.204	.104	.030	.193	.100	.029	.183	.096	.029	
7.0	.205	.101	.029	.199	.099	.028	.189	.095	.027	.179	.092	.027	.169	.088	.026	
8.0	.190	.093	.026	.185	.091	.026	.175	.088	.025	.166	.084	.024	.158	.081	.024	
9.0	.178	.086	.024	.173	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.166	.080	.022	.162	.078	.022	.154	.075	.021	.146	.073	.021	.139	.070	.020	

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	.273	.273	.273	.233	.233	.233	.159	.159	.159	.091	.091	.091	.029	.029	.029	
1.0	.267	.239	.213	.229	.205	.183	.156	.141	.127	.090	.082	.074	.029	.026	.024	
2.0	.260	.215	.178	.223	.185	.153	.153	.128	.107	.088	.075	.063	.028	.024	.020	
3.0	.253	.198	.155	.216	.171	.135	.149	.119	.094	.086	.069	.056	.028	.023	.018	
4.0	.245	.186	.140	.210	.160	.122	.144	.112	.086	.084	.065	.051	.027	.021	.017	
5.0	.237	.176	.130	.204	.152	.113	.140	.106	.080	.081	.062	.047	.026	.020	.016	
6.0	.230	.168	.123	.198	.145	.107	.136	.102	.076	.079	.060	.045	.026	.020	.015	
7.0	.223	.161	.117	.192	.139	.102	.132	.098	.072	.077	.058	.043	.025	.019	.014	
8.0	.216	.155	.113	.186	.135	.099	.129	.094	.070	.075	.056	.042	.024	.018	.014	
9.0	.210	.150	.110	.181	.130	.096	.125	.092	.068	.073	.054	.041	.024	.018	.013	
10.0	.204	.146	.108	.176	.127	.094	.122	.089	.067	.071	.053	.040	.023	.017	.013	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm										
NAME: ASD-OLWS-23-8D12CC-BZ/WH 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	14.1	15.5	14.5	15.9	16.4	15.5	17.0	15.9	17.4	17.8
3H	15.4	16.7	15.8	17.2	17.6	17.6	19.0	18.1	19.4	19.9
4H	15.8	17.1	16.3	17.5	18.0	18.7	20.0	19.2	20.4	20.9
6H	16.0	17.2	16.5	17.7	18.2	19.8	21.0	20.3	21.5	22.0
8H	16.0	17.2	16.5	17.6	18.2	20.4	21.6	20.9	22.1	22.6
12H	15.9	17.1	16.5	17.6	18.1	21.1	22.2	21.6	22.7	23.3
4H 2H	15.0	16.2	15.4	16.7	17.2	16.0	17.3	16.5	17.7	18.2
3H	16.5	17.6	17.0	18.1	18.6	18.3	19.5	18.9	20.0	20.5
4H	17.1	18.1	17.6	18.6	19.2	19.6	20.6	20.1	21.1	21.7
6H	17.4	18.3	17.9	18.8	19.4	20.9	21.8	21.5	22.4	23.0
8H	17.4	18.3	18.0	18.8	19.4	21.6	22.5	22.2	23.0	23.7
12H	17.4	18.2	18.0	18.8	19.4	22.4	23.2	23.0	23.8	24.4
8H 4H	17.7	18.5	18.3	19.1	19.7	19.8	20.7	20.4	21.2	21.9
6H	18.3	19.0	18.9	19.6	20.2	21.4	22.1	22.0	22.7	23.4
8H	18.4	19.1	19.1	19.7	20.4	22.3	22.9	22.9	23.5	24.2
12H	18.5	19.1	19.2	19.7	20.4	23.3	23.9	24.0	24.5	25.2
12H 4H	17.8	18.6	18.4	19.2	19.8	19.8	20.6	20.4	21.2	21.8
6H	18.6	19.2	19.2	19.9	20.5	21.5	22.1	22.1	22.7	23.4
8H	18.9	19.5	19.5	20.1	20.8	22.4	23.0	23.1	23.6	24.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 909.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

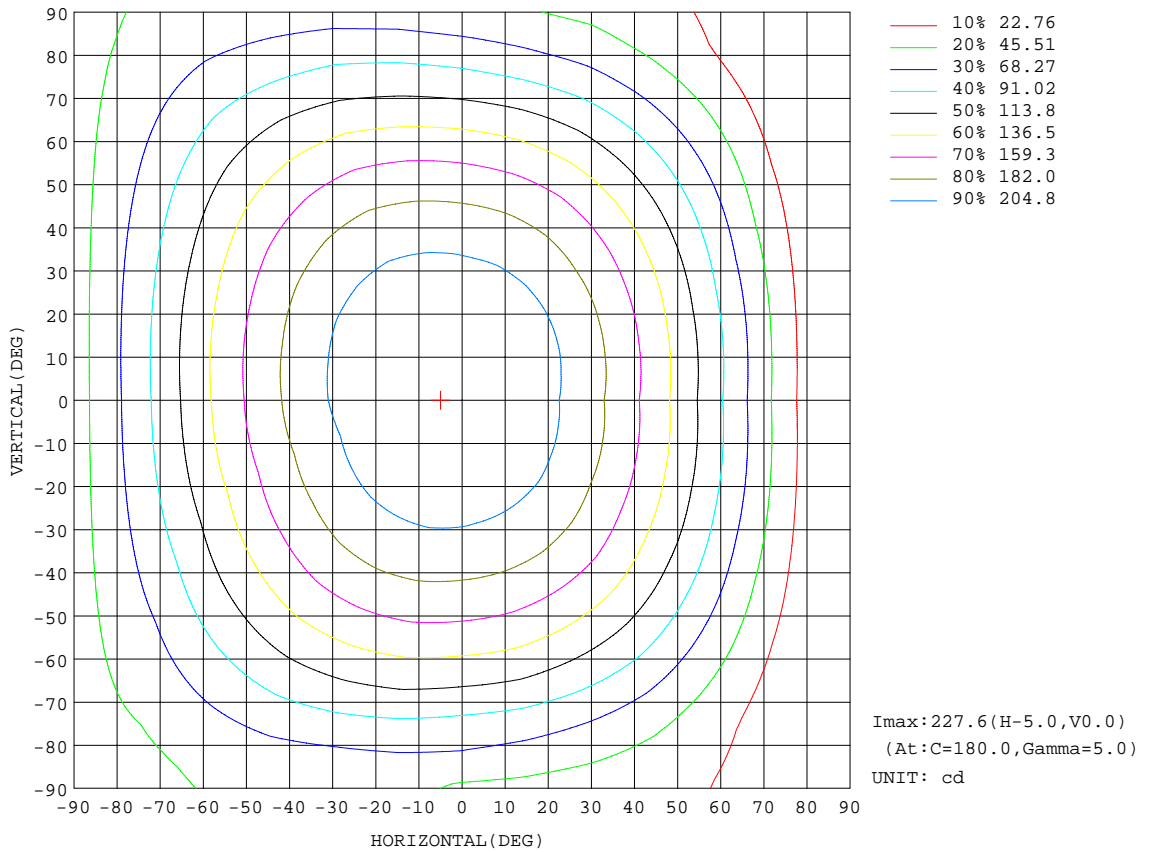
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	38	31	50	38	31	48	37	31	24
0.80	60	47	39	59	47	39	56	46	39	31
1.00	68	56	47	66	55	47	63	56	46	38
1.25	75	63	55	73	62	54	70	60	53	44
1.50	80	69	60	78	67	60	74	65	58	49
2.00	87	77	69	85	75	68	80	72	66	56
2.50	92	82	75	89	80	73	84	77	71	60
3.00	95	87	80	92	85	78	87	80	75	64
4.00	100	93	87	97	90	85	91	85	81	69
5.00	103	96	91	99	94	89	93	89	85	72
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:2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

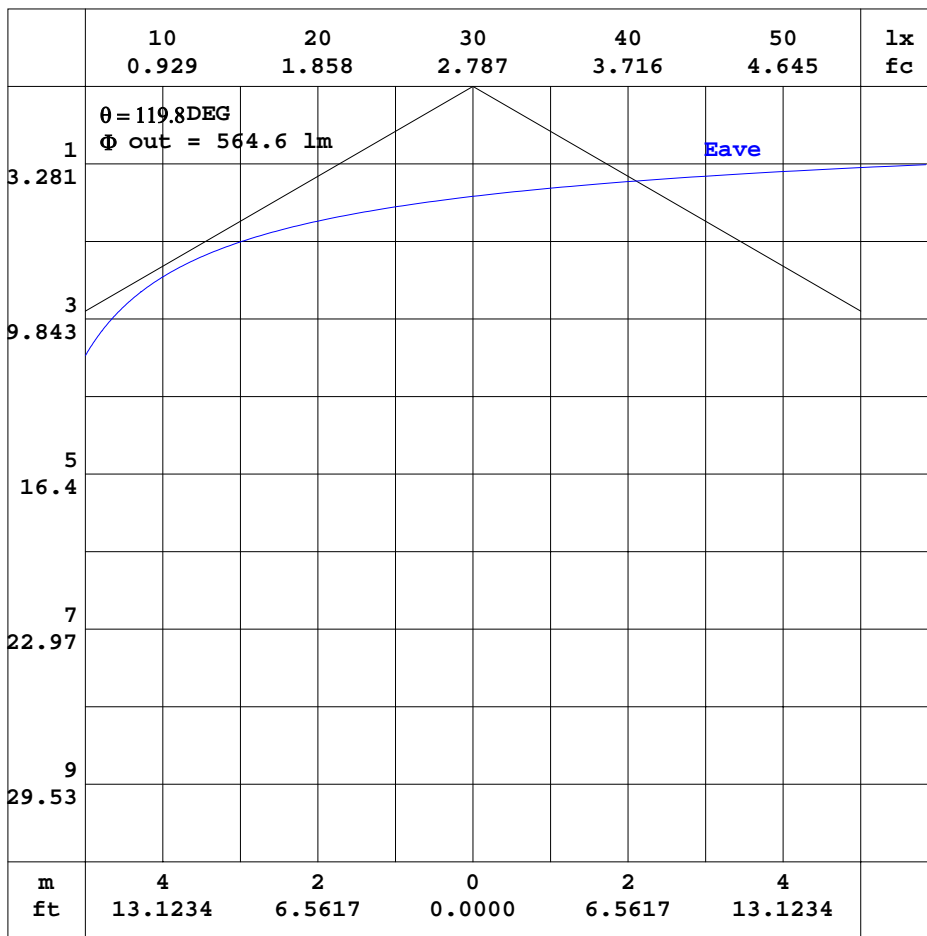


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



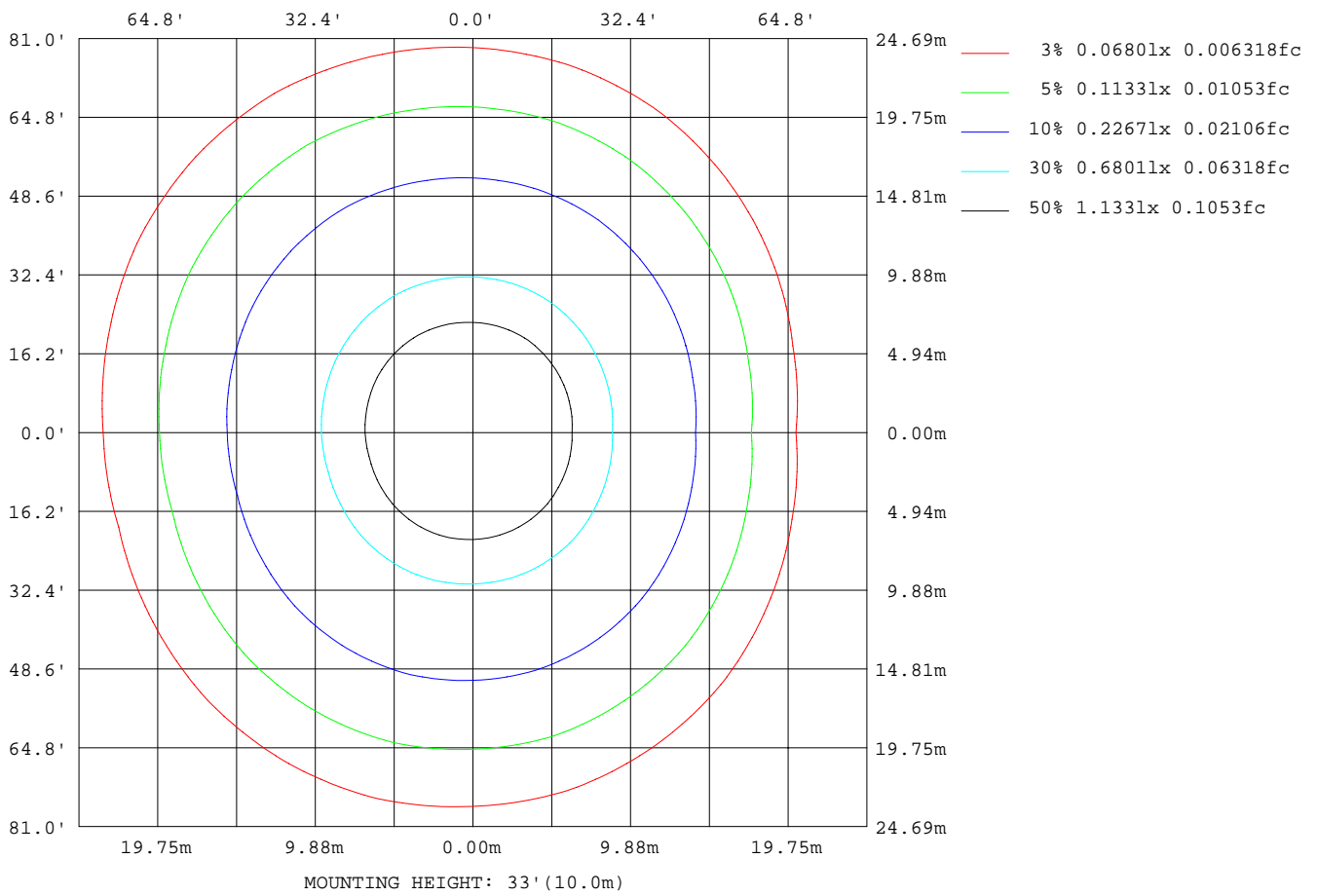
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 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: 2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

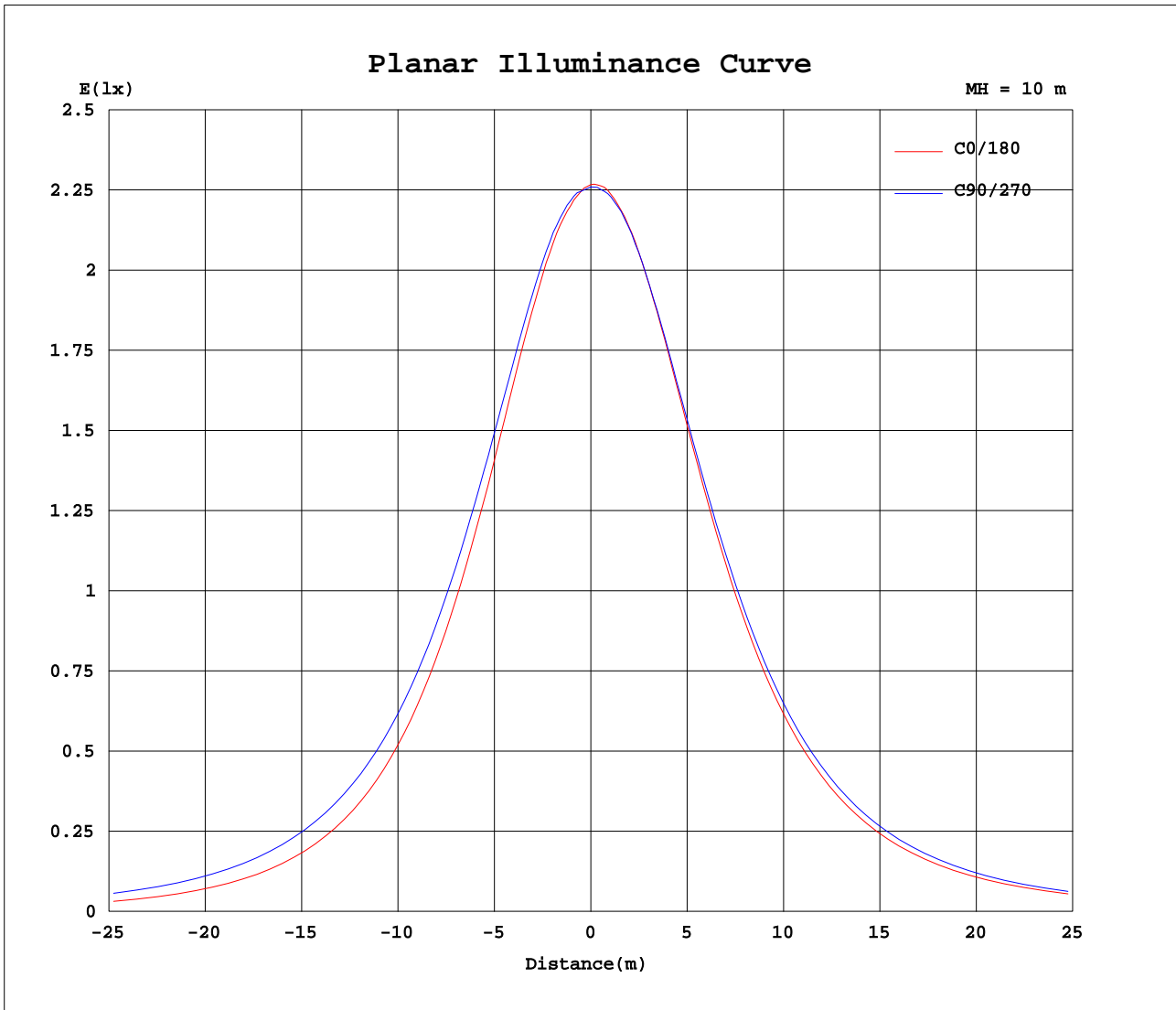
AvgL	cd/m2
L_0~180(65)av	2219
L_0~180(75)av	2199
L_0~180(85)av	2982
L_90~270(65)av	2933
L_90~270(75)av	3526
L_90~270(85)av	7132
L_45(65)av	2722
L_45(75)av	3140
L_45(85)av	5852

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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: 2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 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	227	226	226	226	226	226	226	226	226	225	226	226	227	226	226	226	226	226	226
5	224	224	224	225	225	225	226	226	226	226	226	226	228	227	227	227	227	227	226
10	222	221	221	222	223	224	224	224	225	225	225	225	227	227	227	227	227	227	226
15	216	217	217	219	219	220	221	222	222	223	222	222	224	225	226	226	226	225	224
20	209	210	211	213	214	215	216	217	218	218	218	218	220	221	222	223	223	222	221
25	200	201	203	206	208	209	211	212	213	213	212	211	214	216	218	219	219	218	216
30	189	191	193	197	200	202	204	205	206	206	204	203	206	209	211	213	213	212	210
35	177	179	182	187	191	194	195	197	198	197	195	195	197	200	203	205	206	205	203
40	163	166	170	176	180	184	186	188	188	187	185	183	187	190	194	197	198	196	194
45	147	150	156	163	168	172	175	177	177	176	173	171	174	178	183	187	188	187	184
50	130	134	141	149	155	160	162	165	166	164	160	158	161	166	171	176	177	175	172
55	112	117	124	134	140	146	149	152	152	150	146	143	146	152	158	163	165	163	159
60	92.7	98.7	107	117	125	131	134	138	138	136	132	128	131	137	144	149	152	149	145
65	72.9	79.6	89.2	99.8	108	115	119	123	123	121	116	112	115	121	130	135	137	134	129
70	52.3	59.9	70.6	82.1	90.6	97.8	101	106	107	105	100	95.3	98.0	105	114	119	121	117	113
75	32.5	40.7	52.4	64.8	73.8	81.3	85.3	89.1	90.1	88.9	83.9	78.9	81.3	89.3	98.2	103	105	102	97.3
80	14.2	23.1	36.3	49.3	58.3	66.1	71.6	74.3	73.4	72.6	68.2	63.1	65.0	73.2	82.0	86.4	89.4	87.0	82.0
85	2.63	11.9	25.7	37.9	45.4	51.4	58.2	58.7	58.6	57.8	53.6	48.1	49.4	57.8	65.9	70.4	73.9	72.4	66.1
90	2.57	10.2	21.2	30.9	37.8	42.4	43.9	48.7	51.0	50.4	46.2	40.1	39.2	47.0	54.2	58.0	59.0	55.2	50.4
95	2.56	9.13	19.6	29.2	36.1	40.4	38.5	45.3	47.9	46.8	42.3	36.0	35.3	42.9	50.1	53.9	53.9	50.2	46.7
100	2.60	8.10	18.1	27.4	34.0	35.0	25.0	35.0	41.0	43.2	36.1	33.2	32.9	37.4	46.5	49.4	49.1	44.3	43.7
105	2.65	6.90	14.9	22.8	30.0	28.7	23.1	26.6	30.2	27.0	23.1	26.7	29.0	28.1	35.6	37.1	37.7	30.0	35.2
110	2.69	4.97	11.0	13.6	21.8	23.5	20.3	20.0	17.2	12.6	11.7	12.2	16.4	14.7	14.4	25.6	29.2	27.4	30.9
115	2.74	3.67	9.86	7.36	9.56	14.0	12.9	11.1	9.69	13.8	15.4	9.96	7.71	12.0	10.6	13.2	22.1	24.2	27.3
120	2.77	3.10	9.04	8.77	4.07	3.15	3.68	3.46	10.0	17.5	15.6	14.8	12.0	15.8	13.6	7.46	12.7	16.1	18.9
125	2.82	2.86	7.46	10.6	10.3	7.71	7.03	8.50	15.2	13.9	12.7	13.1	12.7	13.4	15.2	8.39	4.66	6.50	8.05
130	2.85	2.88	5.47	8.36	12.5	15.3	14.7	14.0	12.9	6.73	10.1	11.2	11.2	11.3	12.3	12.9	4.76	3.34	3.23
135	2.93	2.94	3.74	6.16	9.63	12.9	13.0	11.8	9.43	5.23	3.11	8.20	9.40	8.72	5.08	12.0	11.0	8.18	7.33
140	2.99	2.99	3.01	4.02	6.96	9.93	10.4	9.18	6.19	4.17	3.05	2.93	3.59	3.16	3.88	8.45	11.1	12.8	13.5
145	3.08	3.04	3.13	3.43	3.23	7.06	6.77	5.19	3.24	3.23	4.52	4.89	3.15	4.25	4.28	4.78	8.31	9.68	10.1
150	3.11	3.12	3.20	3.16	3.68	3.22	3.23	3.23	3.27	3.17	3.14	3.72	4.14	3.83	3.31	3.50	4.63	5.77	6.52
155	3.17	3.17	3.19	3.20	3.23	3.25	3.28	3.30	3.28	3.21	3.16	3.12	3.24	3.25	3.31	3.40	3.45	3.67	3.83
160	3.22	3.21	3.19	3.27	3.24	3.29	3.29	3.43	3.38	3.25	3.19	3.17	3.25	3.30	3.32	3.39	3.39	3.39	3.37
165	3.38	3.37	3.39	3.29	3.31	3.34	3.32	3.47	3.31	3.30	3.25	3.24	3.30	3.30	3.34	3.38	3.55	3.39	3.39
170	3.32	3.34	3.34	3.36	3.35	3.39	3.37	3.39	3.34	3.34	3.27	3.28	3.33	3.32	3.36	3.38	3.41	3.58	3.42
175	3.49	3.50	3.54	3.55	3.55	3.42	3.40	3.41	3.37	3.37	3.32	3.34	3.41	3.37	3.39	3.39	3.42	3.43	3.43
180	3.56	3.55	3.56	3.42	3.43	3.44	3.44	3.44	3.52	3.49	3.46	3.47	3.57	3.53	3.56	3.40	3.43	3.44	3.45

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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:0.1002A P:11.24W PF:0.9348 Lamp Flux:909.284x1 lm		
NAME: ASD-OLWS-23-8D12CC-BZ/WH 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	226	226	225	226	226															
5	226	225	225	224	224															
10	225	224	223	222	222															
15	223	222	220	219	217															
20	220	218	216	214	211															
25	214	213	210	206	203															
30	208	205	201	197	193															
35	200	197	191	186	181															
40	191	187	180	174	167															
45	180	175	167	160	152															
50	168	162	154	144	136															
55	155	148	138	128	118															
60	140	133	122	111	99.8															
65	124	116	105	92.5	80.2															
70	107	98.9	86.8	73.3	60.0															
75	90.2	81.9	68.6	54.4	40.0															
80	74.0	65.3	51.6	36.7	21.2															
85	59.1	51.1	37.9	21.8	5.96															
90	47.1	40.5	30.1	17.5	5.11															
95	43.8	37.0	27.3	15.8	4.64															
100	41.9	35.3	25.8	14.5	4.19															
105	39.4	32.9	22.6	12.6	3.57															
110	35.5	28.9	16.6	9.38	3.14															
115	29.1	20.8	9.52	7.41	3.02															
120	17.1	9.73	5.91	6.63	3.02															
125	5.33	3.85	7.27	5.38	3.06															
130	3.20	6.54	8.51	4.17	3.08															
135	9.65	11.6	6.80	3.10	3.08															
140	12.4	9.23	4.72	3.22	3.12															
145	8.93	6.11	3.53	3.24	3.20															
150	5.74	3.95	3.29	3.30	3.25															
155	3.32	3.27	3.21	3.23	3.31															
160	3.31	3.42	3.24	3.24	3.21															
165	3.34	3.32	3.46	3.28	3.24															
170	3.37	3.37	3.31	3.31	3.30															
175	3.39	3.39	3.36	3.35	3.34															
180	3.43	3.51	3.49	3.46	3.46															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-05-05

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: