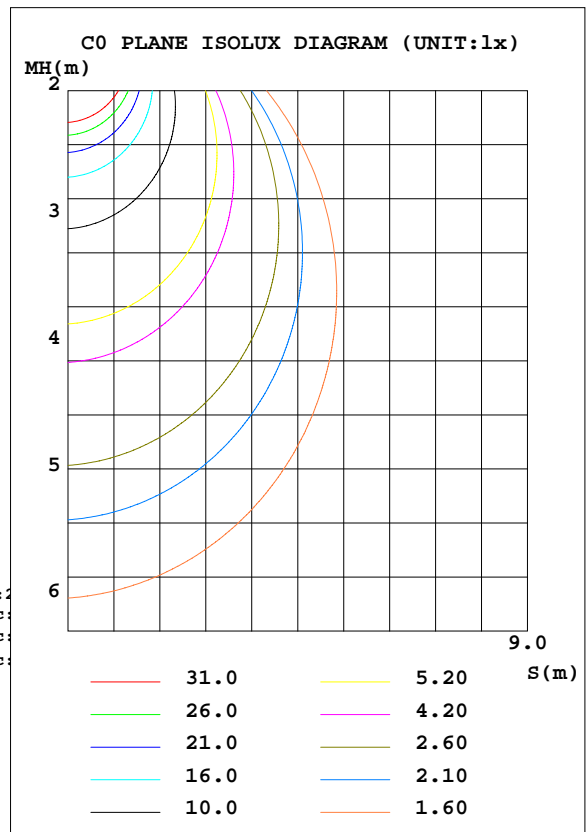
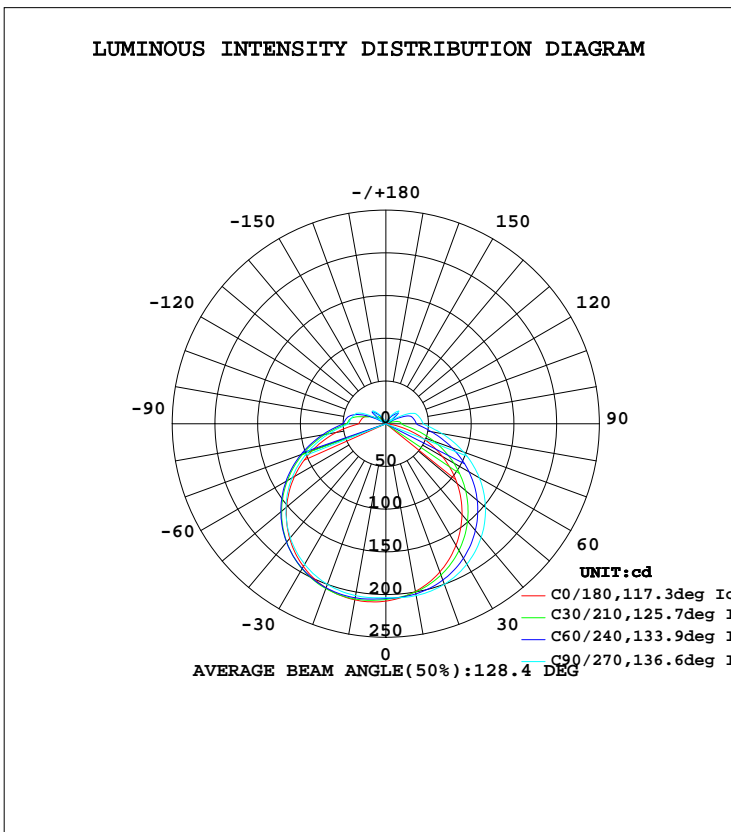


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.16 lm/W			
MODEL	ASD-OLWS-23-MV-8N12CC-BZ	I _{max} (cd)	209.5	S/MH(C0/180)	1.38
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.39
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	835.79	η UP, DN(C0-180)	6.0,43.0
NOMINAL FLUX(lm)	835.793	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.5,44.4
LAMPS INSIDE	1	η up(%)	12.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.0	η down(%)	87.4	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:wxh
 Test Date:2019-05-06

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	199.3	201.1	204.2	205.1	209.3	207.7	204.2	198.6	0- 10	19.47	19.47	2.33,2.33
20	184.7	191.8	200.0	202.2	204.6	205.2	200.1	189.0	10- 20	56.75	76.22	9.12,9.12
30	164.2	176.8	189.7	193.2	193.1	196.4	190.0	173.8	20- 30	88.29	164.5	19.7,19.7
40	138.8	156.5	173.6	178.2	175.1	181.4	173.9	153.3	30- 40	110.2	274.7	32.9,32.9
50	109.1	131.6	152.3	157.4	151.7	160.7	152.8	128.3	40- 50	119.8	394.5	47.2,47.2
60	76.24	103.0	126.3	131.8	123.5	135.1	126.9	99.81	50- 60	116.0	510.5	61.1,61.1
70	42.06	72.37	96.76	102.6	91.71	105.7	97.58	69.37	60- 70	99.45	610.0	73,73
80	10.68	43.87	66.93	72.42	59.25	75.11	67.82	40.92	70- 80	73.66	683.6	81.8,81.8
90	2.172	28.10	43.79	47.69	32.09	49.57	44.08	25.75	80- 90	47.21	730.8	87.4,87.4
100	2.284	25.47	40.57	42.94	29.26	44.66	40.73	23.09	90-100	36.10	766.9	91.8,91.8
110	2.388	13.63	35.71	23.21	25.38	25.47	36.33	10.58	100-110	29.08	796.0	95.2,95.2
120	2.465	6.556	11.89	9.359	13.52	8.609	12.78	8.093	110-120	15.27	811.3	97.1,97.1
130	2.569	13.25	12.44	16.96	5.693	18.37	12.44	11.20	120-130	7.670	819.0	98,98
140	2.688	7.881	17.33	9.362	9.023	10.47	17.54	6.356	130-140	9.347	828.3	99.1,99.1
150	2.788	2.823	8.436	2.838	5.453	3.036	8.728	2.850	140-150	4.723	833.0	99.7,99.7
160	2.900	2.942	2.973	2.896	2.946	3.058	3.058	2.915	150-160	1.629	834.7	99.9,99.9
170	3.012	3.046	3.058	2.969	3.039	3.077	3.096	2.985	160-170	0.8451	835.5	100,100
180	3.058	3.116	3.120	3.019	3.077	3.108	3.120	3.019	170-180	0.2912	835.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

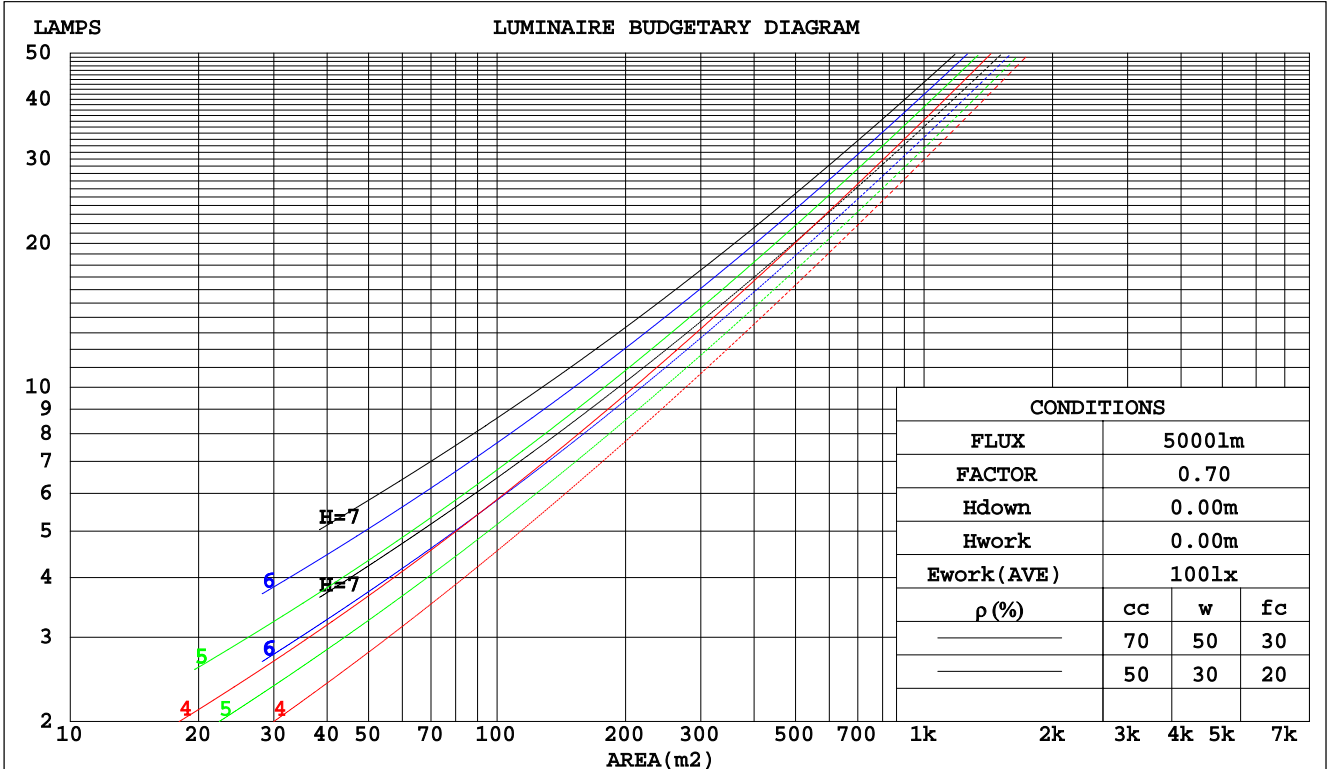
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:wxh
Test Date:2019-05-06

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	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	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.91	.91	.91	.87
1.0	.98	.93	.89	.95	.90	.86	.88	.84	.81	.82	.79	.76	.76	.74	.72	.69
2.0	.84	.77	.70	.81	.74	.69	.76	.70	.65	.70	.66	.62	.66	.62	.58	.55
3.0	.73	.64	.57	.71	.63	.56	.66	.59	.53	.61	.56	.51	.57	.53	.49	.46
4.0	.64	.55	.48	.62	.54	.47	.58	.51	.45	.54	.48	.43	.51	.45	.41	.38
5.0	.57	.48	.41	.55	.47	.40	.52	.44	.38	.48	.42	.37	.45	.40	.35	.33
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.33	.44	.37	.32	.41	.35	.31	.28
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.40	.33	.28	.37	.32	.27	.25
8.0	.42	.33	.27	.41	.33	.27	.38	.31	.26	.36	.30	.25	.34	.28	.24	.22
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.22	.31	.26	.22	.20
10.0	.35	.27	.22	.34	.27	.22	.33	.26	.21	.31	.25	.20	.29	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	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	.363	.206	.065	.352	.201	.064	.331	.190	.061	.312	.180	.058	.295	.171	.055	
2.0	.322	.176	.054	.312	.172	.053	.293	.163	.051	.276	.155	.048	.260	.147	.046	
3.0	.289	.154	.046	.280	.150	.045	.264	.143	.043	.248	.136	.042	.234	.130	.040	
4.0	.262	.136	.040	.254	.133	.039	.239	.127	.038	.225	.121	.036	.212	.115	.035	
5.0	.240	.122	.035	.232	.119	.035	.219	.114	.034	.206	.109	.032	.194	.104	.031	
6.0	.220	.110	.032	.214	.108	.031	.201	.103	.030	.190	.099	.029	.179	.094	.028	
7.0	.204	.101	.029	.198	.099	.028	.187	.094	.027	.176	.090	.026	.166	.086	.025	
8.0	.189	.093	.026	.184	.091	.026	.174	.087	.025	.164	.083	.024	.155	.079	.023	
9.0	.177	.085	.024	.172	.084	.023	.162	.080	.023	.153	.077	.022	.145	.074	.021	
10.0	.166	.079	.022	.161	.078	.022	.152	.075	.021	.144	.072	.020	.136	.069	.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	.286	.286	.286	.245	.245	.245	.167	.167	.167	.096	.096	.096	.031	.031	.031	
1.0	.280	.252	.227	.240	.216	.195	.164	.149	.135	.094	.086	.078	.030	.028	.025	
2.0	.273	.229	.191	.234	.197	.166	.160	.136	.115	.093	.079	.068	.030	.026	.022	
3.0	.266	.212	.169	.228	.183	.147	.156	.127	.103	.090	.074	.061	.029	.024	.020	
4.0	.258	.199	.154	.222	.172	.134	.152	.120	.094	.088	.070	.056	.028	.023	.018	
5.0	.251	.189	.144	.215	.164	.125	.148	.114	.089	.086	.067	.053	.028	.022	.017	
6.0	.243	.181	.137	.209	.157	.119	.144	.110	.084	.084	.065	.050	.027	.021	.017	
7.0	.236	.175	.131	.203	.151	.115	.140	.106	.081	.082	.063	.048	.026	.020	.016	
8.0	.230	.169	.127	.198	.147	.111	.137	.103	.079	.080	.061	.047	.026	.020	.016	
9.0	.223	.164	.124	.192	.142	.108	.133	.100	.077	.078	.059	.046	.025	.019	.015	
10.0	.218	.160	.122	.188	.139	.106	.130	.098	.075	.076	.058	.045	.025	.019	.015	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm										
NAME: ASD-OLWS-23-MV-8N12CC-BZ					TYPE:			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	13.2	14.6	13.7	15.1	15.5	15.2	16.6	15.6	17.0	17.5
3H	14.4	15.7	14.9	16.2	16.7	17.4	18.7	17.8	19.1	19.6
4H	14.8	16.0	15.3	16.5	17.0	18.5	19.7	19.0	20.2	20.7
6H	14.9	16.1	15.5	16.6	17.2	19.6	20.8	20.1	21.3	21.8
8H	14.9	16.1	15.5	16.6	17.1	20.2	21.3	20.7	21.9	22.4
12H	14.9	16.0	15.4	16.5	17.1	20.9	22.0	21.4	22.5	23.1
4H 2H	14.2	15.4	14.6	15.9	16.4	15.6	16.9	16.1	17.3	17.9
3H	15.6	16.7	16.1	17.2	17.8	18.0	19.1	18.6	19.6	20.2
4H	16.1	17.1	16.7	17.7	18.3	19.3	20.3	19.9	20.8	21.4
6H	16.4	17.3	17.0	17.8	18.5	20.7	21.6	21.2	22.1	22.8
8H	16.4	17.2	17.0	17.8	18.5	21.4	22.2	22.0	22.8	23.5
12H	16.4	17.2	17.0	17.8	18.4	22.2	23.0	22.8	23.6	24.2
8H 4H	16.8	17.7	17.4	18.2	18.9	19.5	20.4	20.1	20.9	21.6
6H	17.4	18.1	18.0	18.7	19.4	21.1	21.8	21.7	22.4	23.1
8H	17.5	18.2	18.2	18.8	19.5	22.0	22.7	22.7	23.3	24.0
12H	17.6	18.1	18.2	18.8	19.5	23.1	23.6	23.8	24.3	25.0
12H 4H	17.0	17.8	17.6	18.4	19.1	19.5	20.3	20.1	20.9	21.5
6H	17.7	18.4	18.4	19.0	19.7	21.2	21.8	21.8	22.4	23.1
8H	18.0	18.6	18.7	19.2	20.0	22.2	22.7	22.8	23.4	24.1
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 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 835.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.6)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

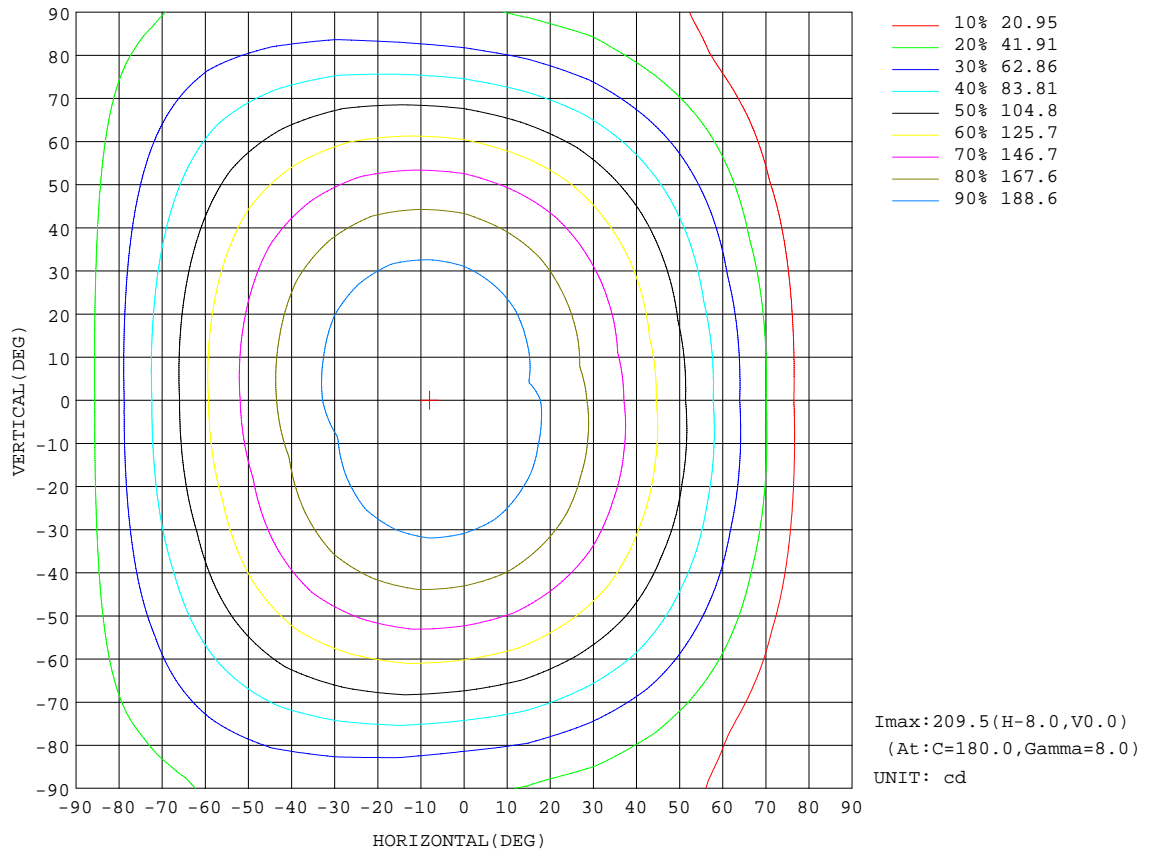
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	50	38	31	49	38	31	48	37	30	24
0.80	60	47	39	58	46	39	56	45	38	31
1.00	68	55	47	66	54	47	63	55	46	37
1.25	75	63	54	73	62	54	69	59	52	44
1.50	80	68	60	77	67	59	73	64	57	48
2.00	87	77	69	84	75	68	79	71	65	55
2.50	91	82	74	88	80	73	83	76	70	59
3.00	95	86	79	92	84	78	86	80	74	63
4.00	100	92	86	96	90	84	90	85	80	67
5.00	102	96	91	99	93	88	92	88	84	70
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:wxh
 Test Date:2019-05-06

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:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

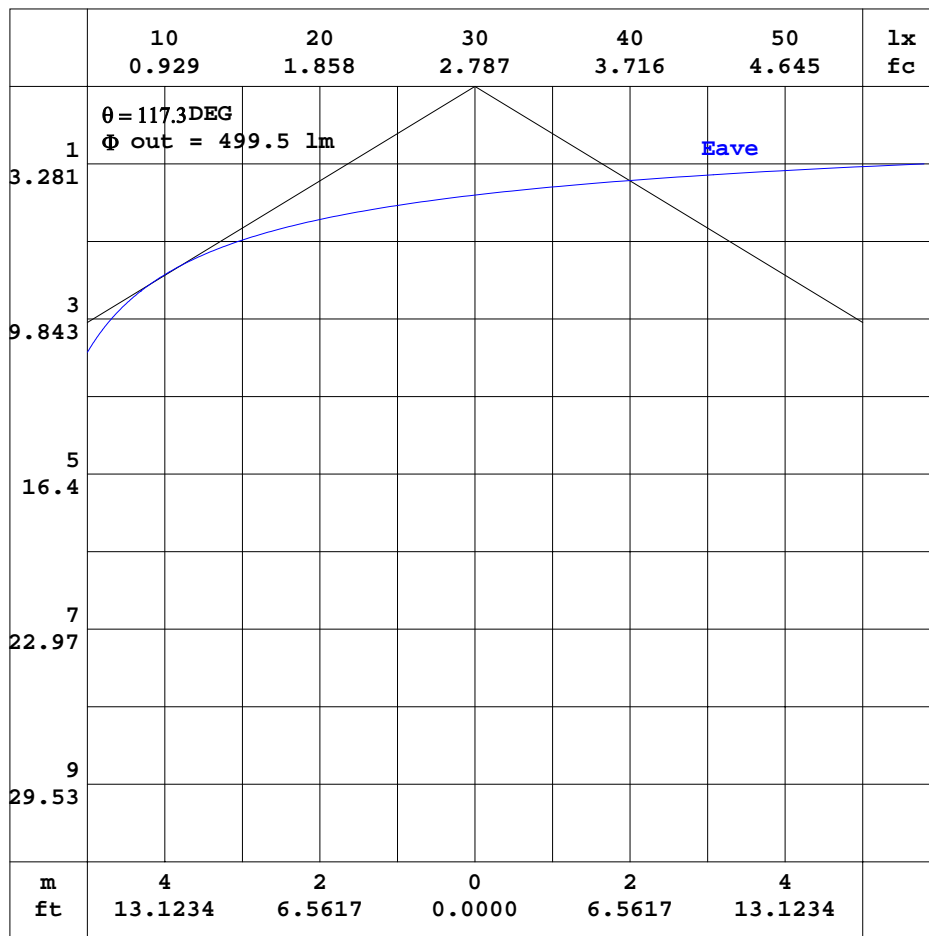


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



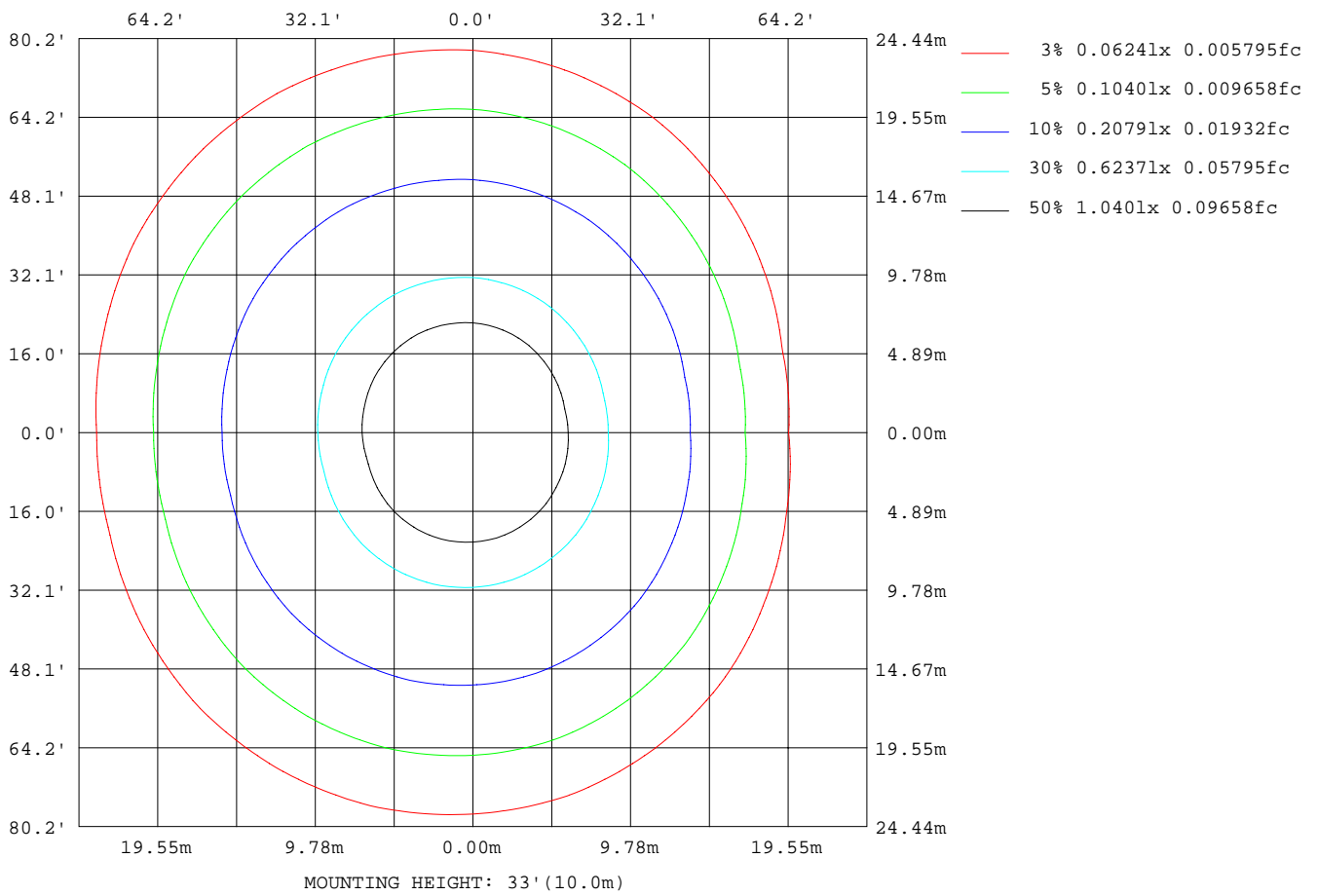
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:wxh
 Test Date:2019-05-06

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:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	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: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

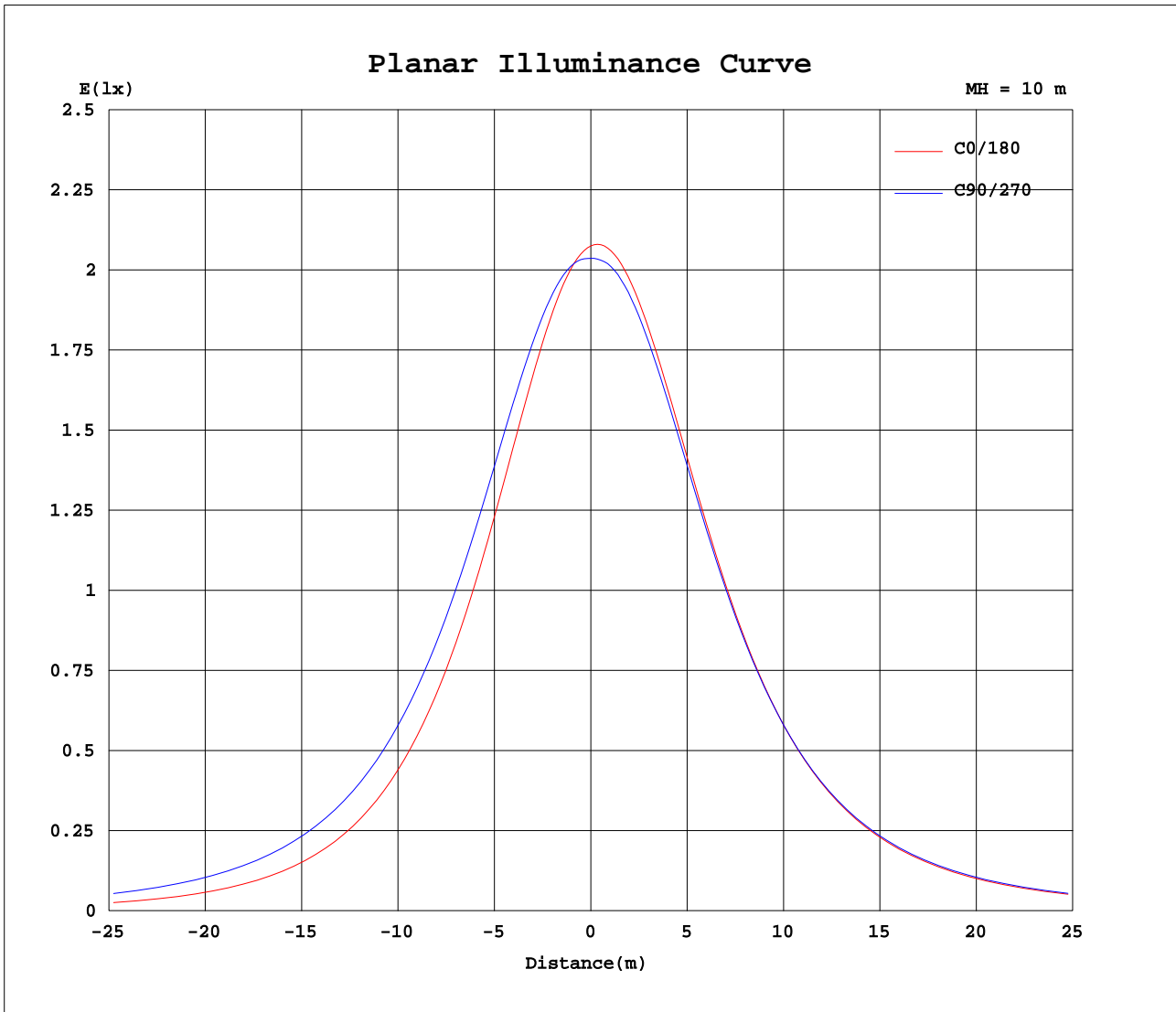
AvgL	cd/m2
L_0~180(65)av	1978
L_0~180(75)av	1950
L_0~180(85)av	2637
L_90~270(65)av	2656
L_90~270(75)av	3170
L_90~270(85)av	6171
L_45(65)av	2429
L_45(75)av	2795
L_45(85)av	5282

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:wxh
 Test Date:2019-05-06

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	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	208	207	206	205	205	204	204	203	203	203	203	202	208	207	206	205	205	204	204
5	204	204	203	204	204	204	204	204	205	204	204	204	209	208	207	207	206	205	204
10	199	199	200	201	202	203	204	205	205	205	205	204	209	209	208	208	207	206	204
15	193	194	195	197	199	201	203	204	204	204	204	203	208	208	208	207	206	205	203
20	185	186	189	192	195	198	200	202	202	202	201	200	205	205	205	205	204	202	200
25	175	177	181	185	189	193	196	198	199	199	197	195	200	200	202	202	201	199	196
30	164	167	171	177	182	187	190	192	193	193	191	189	193	194	196	196	196	193	190
35	152	156	161	167	173	179	182	185	187	186	184	181	185	187	189	190	189	186	183
40	139	143	149	156	163	170	174	177	178	178	176	172	175	178	181	181	181	178	174
45	124	129	136	145	152	159	164	167	169	169	166	162	164	167	171	172	171	168	164
50	109	115	122	132	140	147	152	156	158	157	154	150	152	155	159	161	161	157	153
55	93.0	98.9	107	118	126	135	140	144	146	145	142	137	138	142	147	148	148	145	140
60	76.2	82.5	91.7	103	112	121	126	131	132	132	128	123	123	128	133	135	135	132	127
65	59.3	65.7	75.9	87.8	97.7	107	112	117	118	118	113	108	108	113	119	121	121	117	113
70	42.1	48.9	59.9	72.4	82.5	91.5	96.8	102	103	103	98.1	92.5	91.7	97.3	103	106	106	102	97.6
75	25.6	32.8	44.5	57.4	67.8	76.6	81.6	86.5	88.0	87.3	82.7	76.8	75.3	81.3	87.7	90.2	90.7	86.9	82.5
80	10.7	18.3	30.8	43.9	54.3	62.6	66.9	71.7	73.2	72.4	67.7	61.5	59.3	65.7	72.3	75.1	75.6	72.0	67.8
85	2.15	9.13	21.5	33.9	43.2	50.2	53.3	57.9	59.3	58.3	53.4	46.9	43.8	50.8	57.6	60.8	61.4	58.1	54.2
90	2.17	8.18	18.4	28.1	35.9	41.4	43.8	47.6	49.2	47.7	43.0	36.0	32.1	39.3	46.0	49.6	50.2	47.4	44.1
95	2.23	7.60	17.5	27.0	34.6	40.0	42.3	45.7	47.1	45.6	40.8	34.0	30.5	37.1	43.7	47.3	47.9	45.3	42.4
100	2.28	6.73	15.0	25.5	33.1	38.4	40.6	43.5	44.5	42.9	37.0	32.0	29.3	34.9	40.3	44.7	45.3	43.2	40.7
105	2.33	4.58	8.11	22.5	31.4	36.5	38.6	40.7	39.2	37.3	29.5	28.8	27.9	31.0	32.1	39.5	40.0	40.6	38.8
110	2.39	4.25	4.10	13.6	27.0	33.5	35.7	35.5	28.7	23.2	23.9	25.6	25.4	27.7	24.0	25.5	31.0	36.4	36.3
115	2.44	4.27	7.20	2.97	15.6	24.5	27.0	24.9	15.7	7.91	19.7	19.7	20.7	22.0	19.8	7.83	18.9	25.9	27.7
120	2.46	3.34	9.00	6.56	2.60	9.61	11.9	9.31	4.18	9.36	12.6	11.9	13.5	13.4	14.5	8.61	3.87	10.0	12.8
125	2.53	2.54	7.62	15.2	8.44	4.10	3.42	4.55	10.9	18.2	9.15	6.11	6.78	6.37	11.4	20.1	9.53	4.68	3.47
130	2.57	2.58	6.02	13.3	19.0	13.7	12.4	14.7	20.7	17.0	10.7	6.34	5.69	6.85	12.8	18.4	20.9	15.0	12.4
135	2.62	2.63	4.08	10.7	16.6	20.1	21.3	20.3	17.0	13.4	9.70	9.48	8.88	9.91	11.3	14.6	18.5	21.0	21.5
140	2.69	2.69	2.83	7.88	13.1	16.3	17.3	16.3	12.9	9.36	7.46	8.51	9.02	8.68	7.78	10.5	14.4	17.0	17.5
145	2.72	2.74	2.75	4.85	9.29	12.2	13.0	12.0	8.82	5.15	5.72	6.70	7.28	6.84	5.68	5.96	10.3	12.6	13.2
150	2.79	2.79	2.79	2.82	5.45	7.82	8.44	7.54	4.89	2.84	4.03	4.88	5.45	4.98	4.04	3.04	6.13	8.11	8.73
155	2.84	2.85	2.84	2.88	2.90	3.65	4.03	3.34	2.90	2.86	2.79	3.20	3.69	3.31	3.00	3.03	3.06	3.66	4.23
160	2.90	2.90	2.89	2.94	2.95	2.97	2.97	2.97	2.94	2.90	2.82	2.78	2.95	2.96	3.02	3.06	3.08	3.06	3.06
165	2.97	2.96	2.95	2.99	2.99	3.02	3.02	3.01	2.98	2.94	2.88	2.84	3.00	3.00	3.05	3.07	3.09	3.08	3.07
170	3.01	3.01	3.01	3.05	3.05	3.08	3.06	3.04	3.00	2.97	2.93	2.89	3.04	3.03	3.07	3.08	3.11	3.10	3.10
175	3.08	3.09	3.10	3.14	3.14	3.10	3.08	3.07	3.03	3.00	2.95	2.92	3.05	3.06	3.08	3.09	3.12	3.12	3.11
180	3.06	3.07	3.08	3.12	3.12	3.13	3.12	3.10	3.06	3.02	2.98	2.95	3.08	3.06	3.09	3.11	3.12	3.12	3.12

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: wxh
 Test Date: 2019-05-06

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:0.1027A P:12.26W PF:0.9951 Lamp Flux:835.793x1 lm		
NAME: ASD-OLWS-23-MV-8N12CC-BZ	TYPE:	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	203	203	203	203	202														
5	203	202	201	200	199														
10	202	201	199	197	195														
15	200	198	195	192	189														
20	197	193	189	185	182														
25	192	187	182	177	173														
30	185	180	174	168	163														
35	177	171	164	158	152														
40	168	161	153	146	139														
45	158	150	141	133	126														
50	146	138	128	119	111														
55	133	125	114	105	95.5														
60	120	111	99.8	89.2	79.4														
65	105	96.1	84.7	73.5	62.8														
70	90.2	81.2	69.4	57.5	46.2														
75	75.4	66.5	54.4	42.3	30.1														
80	61.4	52.9	40.9	28.3	15.5														
85	49.3	42.0	31.1	18.5	6.35														
90	40.5	34.4	25.7	15.9	5.82														
95	39.0	33.0	24.6	15.0	5.40														
100	37.4	31.5	23.1	12.5	4.87														
105	35.6	29.9	19.7	6.68	3.48														
110	32.6	25.6	10.6	4.59	3.18														
115	23.3	14.3	2.70	6.98	2.93														
120	8.60	2.79	8.09	7.39	2.65														
125	4.79	9.41	13.3	6.04	2.69														
130	14.7	18.6	11.2	4.63	2.70														
135	19.4	15.5	8.83	3.16	2.72														
140	15.6	12.1	6.36	2.77	2.74														
145	11.5	8.46	3.56	2.79	2.75														
150	7.34	4.78	2.85	2.81	2.78														
155	3.38	2.94	2.88	2.84	2.81														
160	3.00	2.97	2.92	2.87	2.83														
165	3.03	3.00	2.93	2.91	2.88														
170	3.09	3.03	2.98	2.94	2.91														
175	3.09	3.10	3.05	3.00	2.99														
180	3.10	3.06	3.02	2.98	2.95														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:wxh
 Test Date:2019-05-06

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: