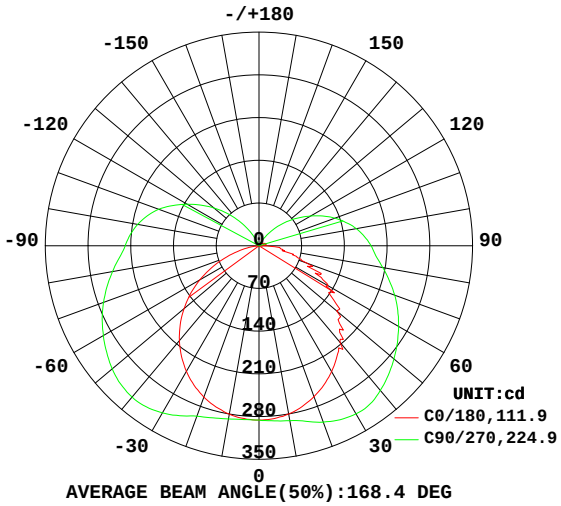
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

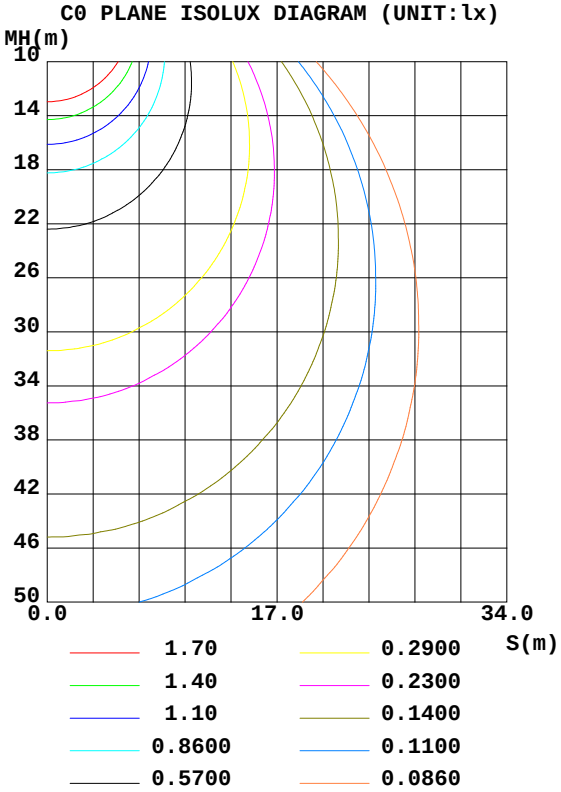
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 72.76 lm/W	
MODEL	ASD-OLWS-22-MV-24N23CC-BZ	Emax(cd)	324.1	S/MH(C0/180)	1.24
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.65
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1600	η UP,DN(C0-180)	12.3,40.3
NOMINAL FLUX(lm)	1600	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.2,38.2
LAMPS INSIDE	1	η up(%)	21.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	78.5	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):168.4 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	280.3	283.7	288.1	284.2	280.0	286.2	291.0	286.0	0- 10	27.24	27.24	1.61,1.61
20	263.9	280.0	297.3	281.4	263.4	284.7	307.5	285.3	10- 20	80.45	107.7	6.38,6.38
30	237.8	276.2	316.2	278.7	238.2	284.5	318.1	285.3	20- 30	130.2	237.9	14.1,14.1
40	203.1	273.4	323.7	276.8	206.4	274.3	309.3	274.7	30- 40	172.2	410.1	24.3,24.3
50	160.5	259.2	313.9	264.2	166.0	249.6	288.6	247.1	40- 50	198.9	609.0	36.1,36.1
60	112.0	230.6	294.5	246.6	131.0	217.0	264.2	211.8	50- 60	206.7	815.7	48.3,48.3
70	60.82	197.4	271.0	206.1	83.22	187.3	236.6	176.2	60- 70	196.4	1012	60,60
80	16.53	164.7	243.8	174.6	38.93	146.1	206.0	140.9	70- 80	170.9	1183	70.1,70.1
90	0.2620	140.0	219.2	147.8	4.880	120.1	183.7	117.7	80- 90	142.1	1325	78.5,78.5
100	0.1832	123.0	201.9	131.5	9.647	99.98	162.1	97.39	90-100	121.5	1447	85.7,85.7
110	0.2499	97.24	175.1	105.4	11.30	75.56	132.6	72.06	100-110	98.54	1545	91.5,91.5
120	0.3172	69.77	136.4	76.43	7.974	49.64	97.60	47.36	110-120	70.17	1615	95.7,95.7
130	0.3778	42.65	96.55	47.92	5.721	26.18	63.61	24.36	120-130	42.88	1658	98.2,98.2
140	0.5209	16.34	56.76	20.36	3.823	6.299	31.72	6.222	130-140	21.41	1680	99.5,99.5
150	0.7593	1.057	19.71	1.559	2.281	2.278	5.520	1.628	140-150	6.889	1686	99.9,99.9
160	0.8002	0.8488	1.121	1.154	1.058	1.420	1.725	1.721	150-160	1.057	1688	100,100
170	0.7328	0.9347	1.021	1.123	0.8804	0.9783	1.219	1.220	160-170	0.3221	1688	100,100
180	0.9668	0.9518	0.7998	0.9541	0.9735	0.9678	0.9134	0.9398	170-180	0.0925	1688	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 507.42 lm

%lum = 30.1%
%lamp = 30.1%

Conical surface Flux(120deg): 815.72 lm

%lum = 48.3%
%lamp = 48.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

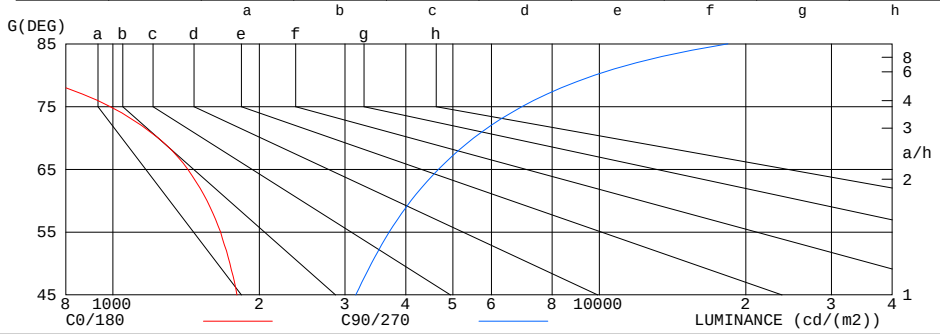
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	258	18372
80	663	9774
75	986	6934
70	1239	5517
65	1426	4671
60	1561	4101
55	1666	3698
50	1740	3400
45	1799	3156

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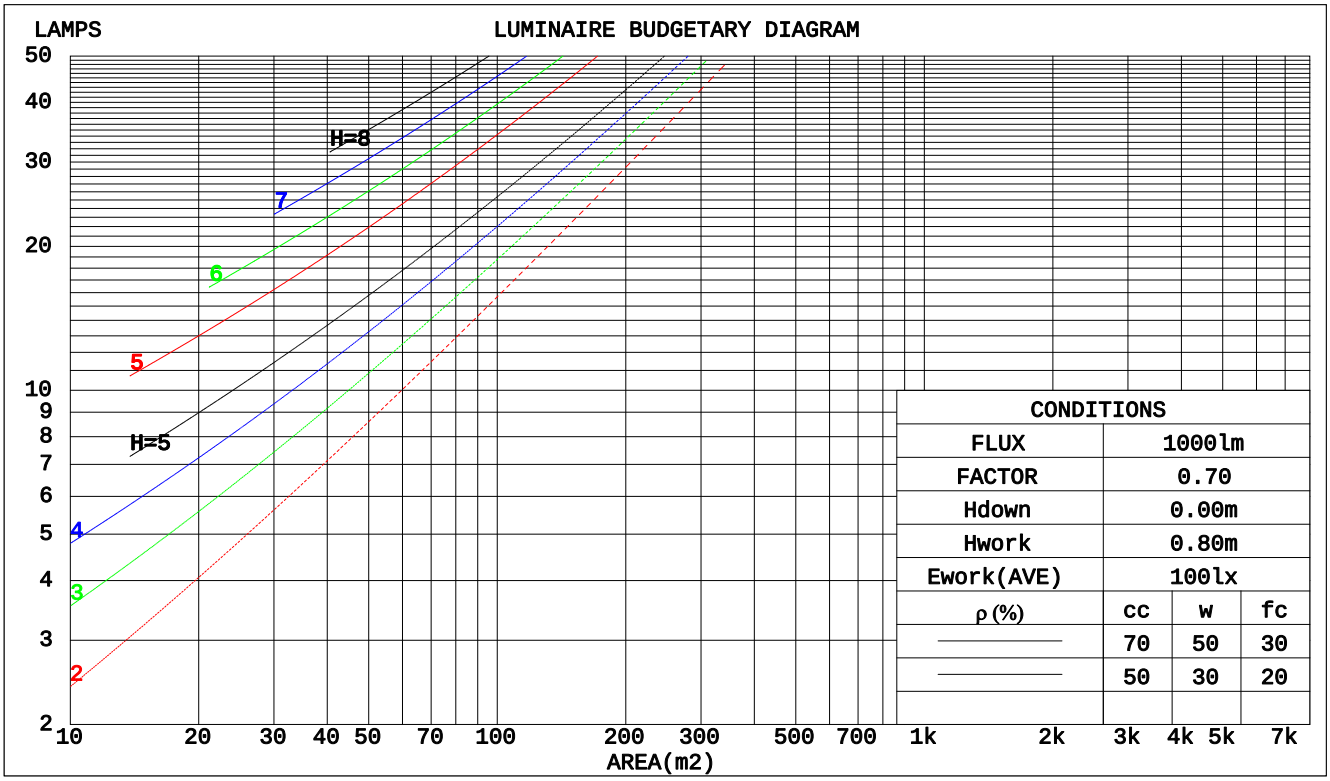
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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			Coefficients of Utilization(CU)												
0.0	1.14	1.14	1.14	1.09	1.09	1.09	.99	.99	.99	.90	.90	.90	.82	.82	.82	.79
1.0	.94	.88	.83	.89	.84	.80	.81	.77	.73	.74	.70	.67	.66	.64	.62	.58
2.0	.80	.72	.65	.76	.69	.62	.69	.63	.58	.62	.57	.53	.56	.52	.49	.45
3.0	.69	.60	.52	.66	.57	.50	.59	.52	.47	.54	.48	.43	.48	.44	.40	.37
4.0	.60	.51	.43	.57	.49	.42	.52	.45	.39	.47	.41	.36	.43	.37	.33	.30
5.0	.53	.44	.36	.51	.42	.35	.46	.39	.33	.42	.36	.30	.38	.33	.28	.25
6.0	.47	.38	.31	.45	.37	.30	.41	.34	.28	.38	.31	.26	.34	.29	.24	.22
7.0	.43	.34	.27	.41	.32	.26	.37	.30	.25	.34	.28	.23	.31	.25	.21	.19
8.0	.39	.30	.24	.37	.29	.23	.34	.27	.22	.31	.25	.20	.28	.23	.19	.17
9.0	.35	.27	.21	.34	.26	.20	.31	.24	.19	.28	.22	.18	.26	.21	.17	.15
10.0	.32	.24	.19	.31	.23	.18	.29	.22	.17	.26	.20	.16	.24	.19	.15	.13



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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 Coeffcients(WEC)									
0.0																
1.0	.402	.228	.072	.388	.221	.070	.362	.208	.066	.338	.195	.063	.316	.183	.059	
2.0	.344	.189	.058	.331	.183	.056	.308	.171	.053	.286	.161	.050	.266	.151	.047	
3.0	.304	.162	.048	.292	.157	.047	.271	.147	.045	.251	.138	.042	.233	.129	.040	
4.0	.272	.141	.042	.262	.137	.041	.243	.129	.038	.225	.121	.036	.208	.113	.034	
5.0	.247	.126	.036	.237	.122	.036	.220	.114	.034	.203	.107	.032	.188	.101	.030	
6.0	.225	.113	.032	.217	.110	.032	.201	.103	.030	.186	.097	.028	.172	.090	.027	
7.0	.208	.103	.029	.200	.100	.028	.185	.094	.027	.171	.088	.026	.158	.082	.024	
8.0	.192	.094	.026	.185	.091	.026	.172	.086	.024	.159	.080	.023	.147	.075	.022	
9.0	.179	.087	.024	.172	.084	.024	.160	.079	.022	.148	.074	.021	.137	.070	.020	
10.0	.167	.080	.022	.161	.078	.022	.150	.073	.021	.139	.069	.020	.128	.065	.019	

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	.354	.354	.354	.303	.303	.303	.207	.207	.207	.119	.119	.119	.038	.038	.038	
1.0	.352	.320	.292	.301	.275	.252	.206	.189	.174	.119	.109	.101	.038	.035	.033	
2.0	.345	.298	.258	.296	.256	.223	.203	.177	.156	.117	.103	.091	.038	.033	.030	
3.0	.338	.282	.237	.290	.243	.205	.199	.169	.144	.115	.099	.085	.037	.032	.028	
4.0	.330	.269	.223	.284	.233	.194	.195	.162	.136	.113	.095	.081	.036	.031	.027	
5.0	.323	.260	.213	.277	.225	.185	.191	.157	.131	.111	.092	.078	.036	.030	.026	
6.0	.315	.252	.206	.271	.218	.180	.187	.153	.127	.108	.090	.076	.035	.029	.025	
7.0	.308	.245	.201	.265	.213	.176	.183	.149	.124	.106	.088	.074	.034	.029	.024	
8.0	.301	.240	.198	.259	.208	.172	.179	.146	.122	.104	.086	.073	.034	.028	.024	
9.0	.295	.235	.195	.254	.204	.170	.176	.143	.121	.103	.085	.072	.033	.028	.024	
10.0	.289	.231	.192	.249	.201	.168	.173	.141	.119	.101	.083	.071	.033	.027	.024	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	13.3	14.7	13.9	15.2	15.9	16.9	18.3	17.5	18.8	19.5
	3H	14.7	15.9	15.3	16.5	17.2	19.8	21.1	20.4	21.7	22.4
	4H	15.2	16.3	15.8	17.0	17.7	21.4	22.6	22.1	23.3	24.0
	6H	15.4	16.5	16.0	17.2	17.9	23.2	24.4	23.9	25.0	25.7
	8H	15.5	16.6	16.1	17.2	17.9	24.2	25.3	24.9	26.0	26.7
	12H	15.5	16.5	16.1	17.2	17.9	25.4	26.4	26.0	27.1	27.8
4H	2H	15.0	16.2	15.6	16.8	17.5	17.4	18.6	18.0	19.2	19.9
	3H	16.7	17.7	17.3	18.4	19.1	20.6	21.7	21.2	22.3	23.1
	4H	17.4	18.4	18.1	19.0	19.8	22.4	23.4	23.1	24.1	24.8
	6H	17.9	18.8	18.6	19.5	20.3	24.5	25.3	25.1	26.0	26.8
	8H	18.0	18.9	18.8	19.6	20.4	25.6	26.4	26.3	27.1	27.9
	12H	18.1	18.9	18.8	19.6	20.4	26.9	27.6	27.6	28.3	29.2
8H	4H	19.0	19.8	19.7	20.5	21.3	22.7	23.6	23.4	24.3	25.1
	6H	19.9	20.6	20.7	21.4	22.2	25.1	25.8	25.8	26.5	27.4
	8H	20.3	21.0	21.1	21.7	22.6	26.4	27.1	27.2	27.8	28.7
	12H	20.6	21.2	21.4	21.9	22.8	28.0	28.5	28.8	29.3	30.2
12H	4H	19.5	20.2	20.2	20.9	21.8	22.8	23.5	23.5	24.2	25.1
	6H	20.8	21.4	21.5	22.1	23.0	25.2	25.8	25.9	26.6	27.4
	8H	21.4	21.9	22.2	22.7	23.6	26.7	27.2	27.4	28.0	28.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 1688 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	45	32	25	44	32	25	42	31	24	17
0.80	54	41	32	52	40	32	49	38	31	23
1.00	62	48	39	60	47	39	56	48	38	29
1.25	69	55	46	66	54	46	62	51	44	34
1.50	74	61	52	71	59	51	66	56	49	38
2.00	81	70	61	78	67	59	72	63	56	44
2.50	86	75	67	82	73	65	76	68	61	48
3.00	90	80	72	86	77	70	79	72	66	51
4.00	95	86	79	91	83	77	83	77	72	56
5.00	98	91	84	94	87	81	86	80	76	59
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
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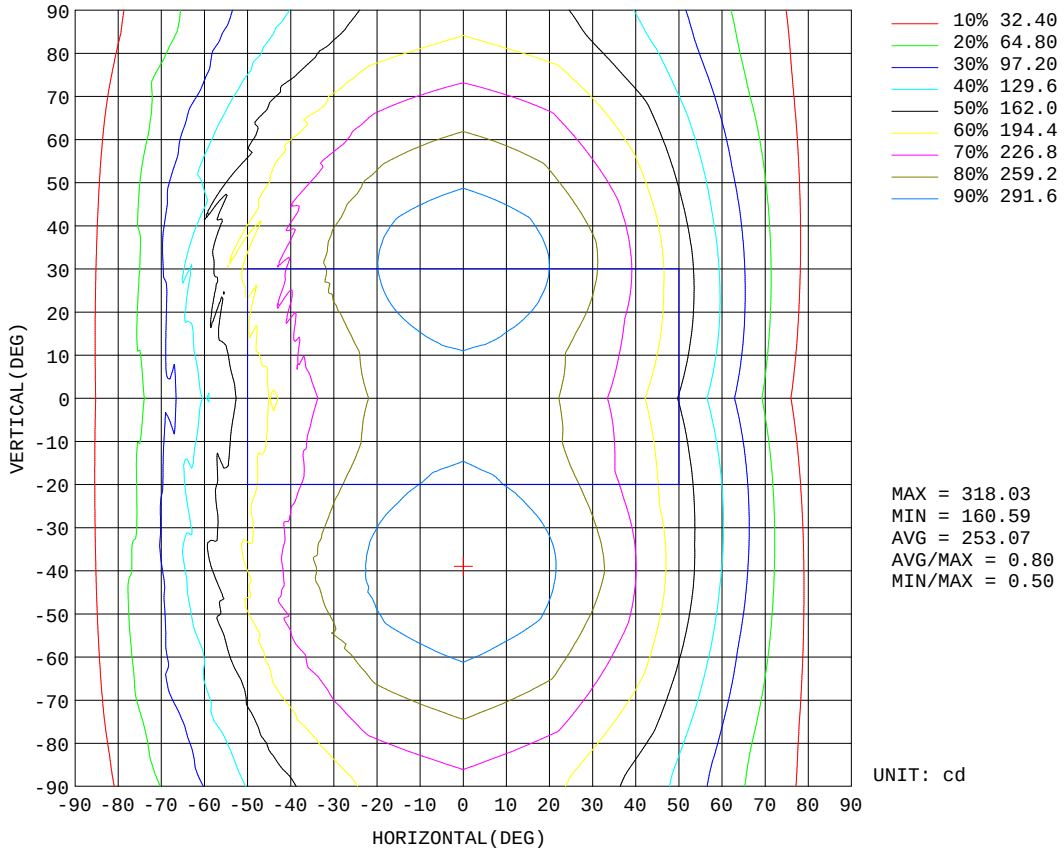

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AAI Figure

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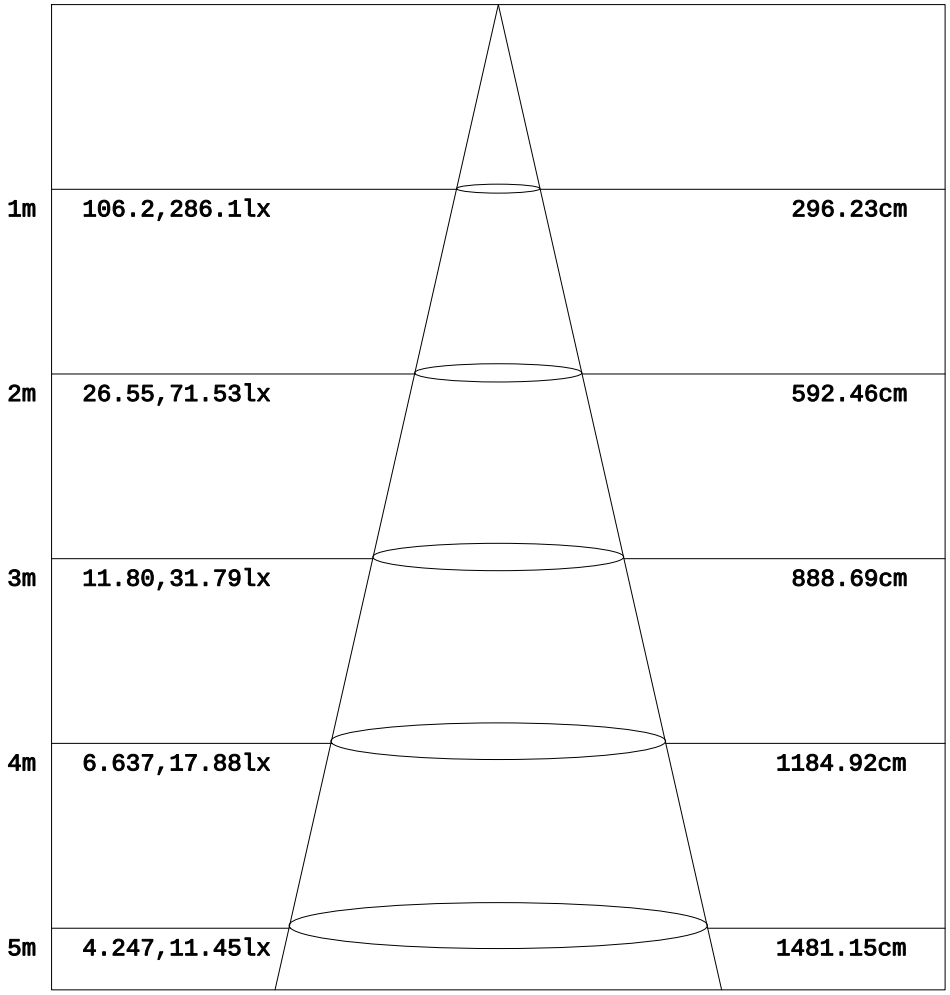
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

Flux out:733.2 lm



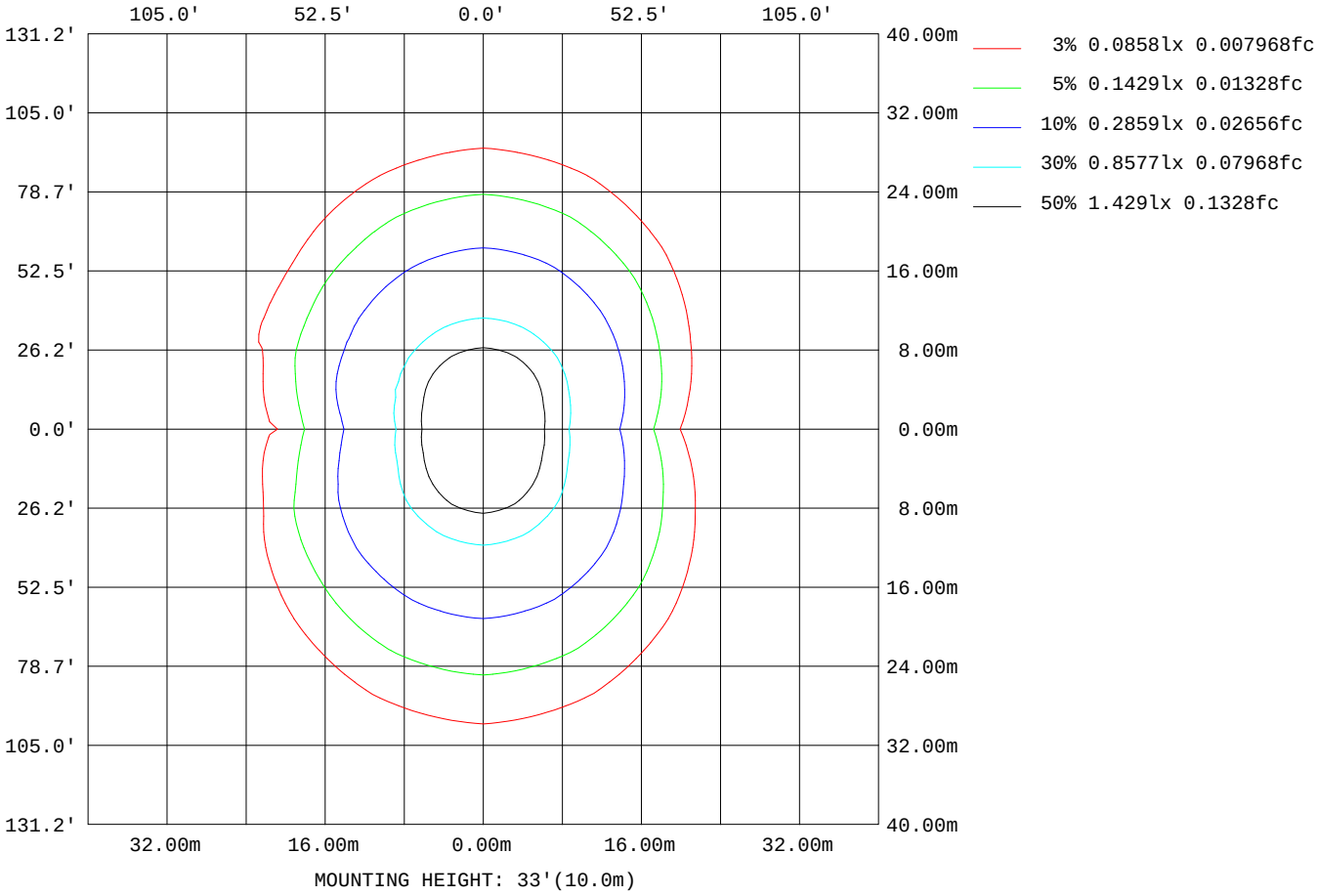
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

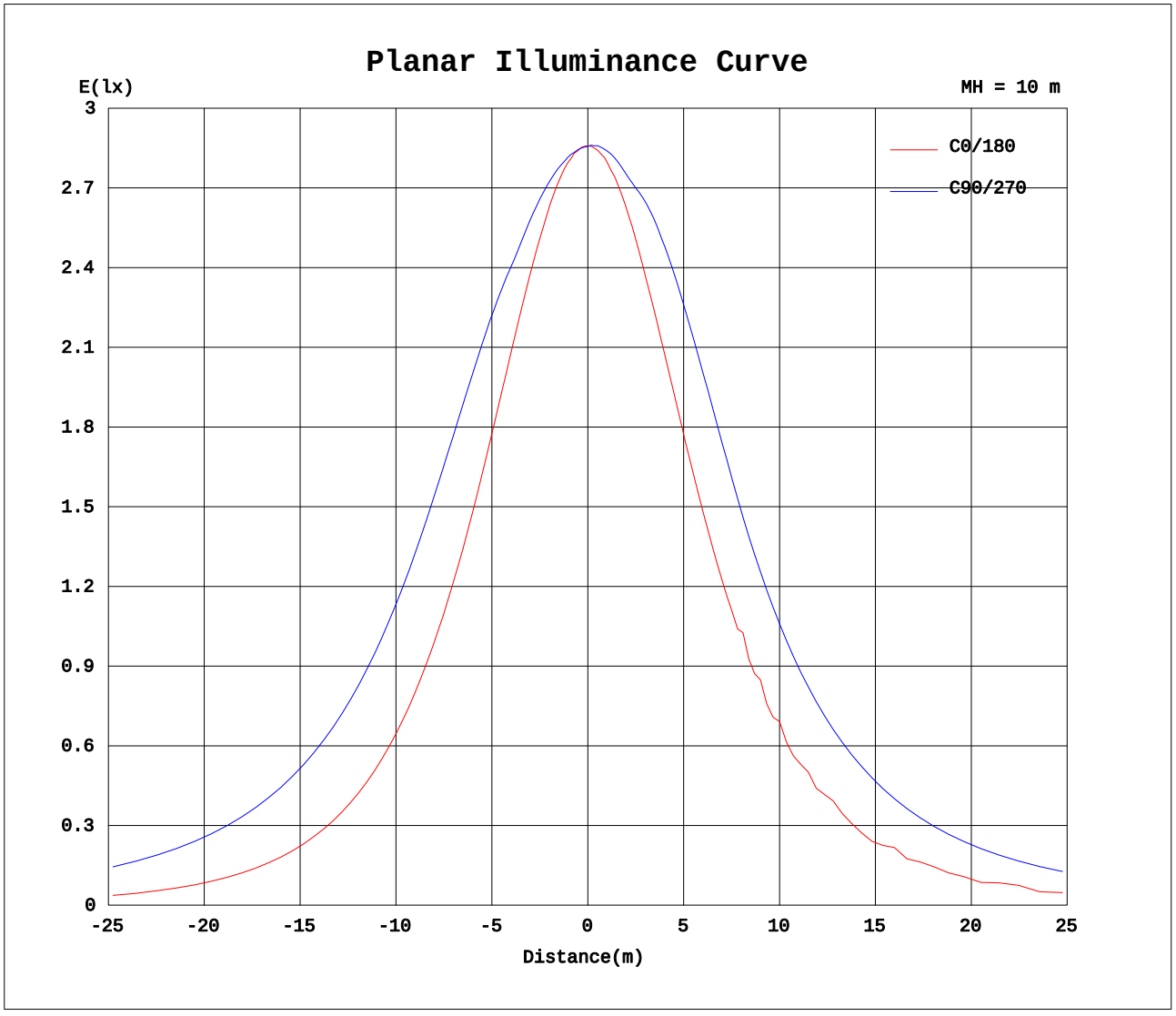
AvgL	cd/m2
L_0~180(65)av	1634
L_0~180(75)av	1257
L_0~180(85)av	1493
L_90~270(65)av	4403
L_90~270(75)av	6444
L_90~270(85)av	16867
L_45(65)av	3446
L_45(75)av	4693
L_45(85)av	11335

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1950A P:23.20W PF:0.9913 Lamp Flux:1600x1 lm		
NAME: ASD-OLWS-22-MV-24N23CC-BZ 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	286	286	286	286	286	286	286	286	286	286	286	286	286	286	286	286
5	284	285	285	285	286	285	285	285	284	285	286	287	288	287	286	285
10	280	281	284	286	288	287	284	282	280	282	286	290	291	289	286	282
15	273	275	282	289	292	290	283	276	273	277	285	293	298	294	285	277
20	264	268	280	292	297	293	281	269	263	270	285	301	307	302	285	270
25	252	259	278	298	307	299	279	261	252	261	286	307	315	307	287	261
30	238	248	276	305	316	306	279	251	238	251	285	309	318	310	285	251
35	222	236	276	309	322	311	279	240	223	243	281	308	317	308	282	241
40	203	223	273	310	324	312	277	228	206	232	274	300	309	301	275	230
45	183	209	268	306	321	308	273	216	196	221	264	289	300	289	263	216
50	161	196	259	298	314	301	264	207	166	207	250	277	289	277	247	201
55	137	181	246	288	305	290	252	191	145	201	233	263	277	264	230	183
60	112	164	231	276	294	278	247	184	131	205	217	249	264	250	212	162
65	86.5	145	214	264	283	266	224	174	112	158	204	235	251	235	194	137
70	60.8	124	197	250	271	253	206	153	83.2	128	187	219	237	220	176	114
75	36.6	102	181	236	258	239	191	119	56.8	115	166	204	221	204	159	92.0
80	16.5	82.8	165	222	244	224	175	106	38.9	92.0	146	188	206	189	141	72.9
85	3.23	66.8	150	207	230	210	160	87.0	34.1	74.8	130	174	192	175	127	57.3
90	0.26	56.5	140	197	219	199	148	73.2	4.88	59.5	120	165	184	166	118	48.0
95	0.17	49.3	132	190	212	192	140	67.1	7.24	51.8	112	155	174	157	108	39.7
100	0.18	40.9	123	180	202	182	131	56.8	9.65	41.5	100.0	143	162	144	97.4	30.9
105	0.22	32.9	111	168	190	170	120	49.0	13.0	33.4	88.6	130	148	131	85.3	23.1
110	0.25	25.6	97.2	154	175	156	105	39.1	11.3	25.9	75.6	116	133	117	72.1	16.2
115	0.28	18.4	83.4	136	156	138	91.0	30.7	9.58	18.0	62.2	99.5	115	100	59.4	10.1
120	0.32	11.2	69.8	117	136	120	76.4	21.8	7.97	12.0	49.6	83.3	97.6	83.8	47.4	5.08
125	0.35	5.15	56.0	99.0	116	101	61.6	13.7	6.58	7.03	37.9	67.7	80.4	68.1	35.5	1.75
130	0.38	1.11	42.6	80.9	96.6	83.1	47.9	7.02	5.72	5.88	26.2	52.3	63.6	52.6	24.4	1.72
135	0.45	0.79	29.1	62.6	76.7	64.9	33.9	4.13	4.71	4.60	15.6	37.6	47.3	38.0	14.4	1.74
140	0.52	0.64	16.3	44.8	56.8	47.0	20.4	3.35	3.82	3.74	6.30	23.5	31.7	24.5	6.22	1.52
145	0.66	0.64	6.05	27.8	37.7	29.3	8.71	2.63	3.05	3.08	2.66	10.4	17.5	12.8	1.67	1.37
150	0.76	0.72	1.06	12.4	19.7	13.6	1.56	2.14	2.28	2.47	2.28	1.90	5.52	3.59	1.63	1.25
155	0.84	0.80	0.91	1.60	5.29	1.99	1.23	1.73	1.54	1.75	1.91	1.80	1.87	1.95	1.67	1.18
160	0.80	0.84	0.85	1.02	1.12	1.21	1.15	1.35	1.06	1.13	1.42	1.68	1.72	1.86	1.72	1.18
165	0.75	0.77	0.89	0.93	1.00	1.08	1.16	1.15	0.83	0.85	1.13	1.42	1.55	1.66	1.51	1.13
170	0.73	0.76	0.93	0.98	1.02	1.03	1.12	1.14	0.88	0.89	0.98	1.09	1.22	1.33	1.22	0.99
175	0.89	0.83	0.95	0.99	0.97	0.92	1.01	1.04	0.92	0.92	0.94	0.96	0.92	1.03	0.99	0.93
180	0.97	0.96	0.95	0.89	0.80	0.96	0.95	0.97	0.97	0.97	0.97	0.96	0.91	0.84	0.94	0.95

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C Interval: 22.5DEG
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