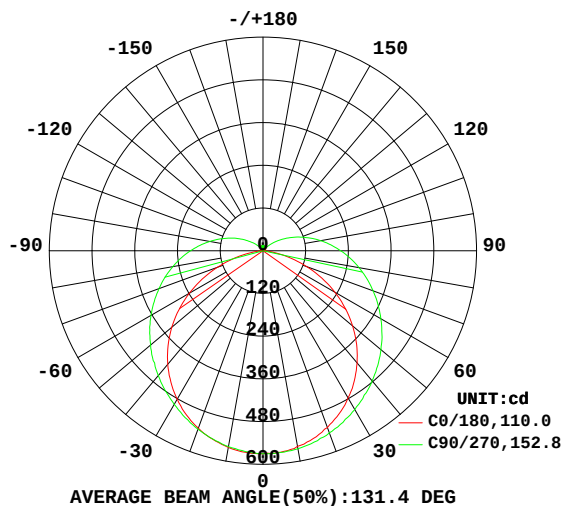


LUMINAIRE PHOTOMETRIC TEST REPORT

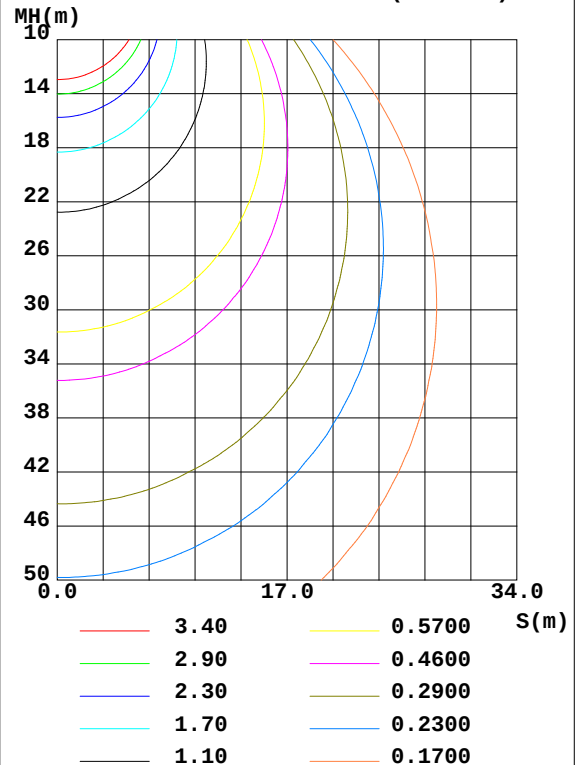
Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.96 lm/W			
MODEL	PRE-2402T61369E-EE	Imax(cd)	571.3	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)		TOTAL FLUX(lm)	2274.3	η UP, DN(C0-180)	5.6, 43.4
NOMINAL FLUX(lm)	2274.26	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.9, 45.0
LAMPS INSIDE	1	η up(%)	11.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	88.5	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Hill
Test Date: 2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 43%
Test Distance: 2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	561.0	559.9	559.0	558.2	557.8	561.6	564.8	564.6	0- 10	53.98	53.98	2.37, 2.37
20	530.6	531.7	533.7	529.2	528.6	537.3	544.6	540.5	10- 20	155.2	209.1	9.2, 9.2
30	481.8	488.4	498.7	484.9	477.9	495.1	515.3	501.5	20- 30	237.6	446.7	19.6, 19.6
40	416.0	433.2	457.8	429.3	411.4	444.1	476.9	450.9	30- 40	292.7	739.5	32.5, 32.5
50	334.5	371.4	412.1	368.4	328.8	384.1	432.6	392.6	40- 50	316.3	1056	46.4, 46.4
60	239.0	307.1	363.4	305.1	233.5	319.3	382.5	328.8	50- 60	307.9	1364	60, 60
70	136.5	242.5	311.2	243.0	130.8	253.4	329.3	263.8	60- 70	272.0	1636	71.9, 71.9
80	42.13	181.5	257.2	184.1	39.62	191.3	273.7	201.2	70- 80	217.6	1853	81.5, 81.5
90	0.2620	127.2	203.8	131.1	0.1880	134.8	218.4	144.7	80- 90	159.1	2012	88.5, 88.5
100	2.242	82.07	151.9	85.94	2.309	87.38	164.5	96.08	90-100	110.3	2123	93.3, 93.3
110	5.455	46.41	104.1	49.86	5.810	49.35	112.7	55.51	100-110	70.39	2193	96.4, 96.4
120	8.386	22.72	63.11	25.49	8.667	20.46	67.24	24.82	110-120	39.43	2233	98.2, 98.2
130	10.74	6.557	32.49	7.623	10.79	3.040	29.55	3.606	120-130	18.73	2251	99, 99
140	12.78	5.319	8.802	5.077	12.63	4.035	4.088	4.304	130-140	7.557	2259	99.3, 99.3
150	14.51	9.935	6.094	9.124	14.19	8.381	5.322	8.009	140-150	5.042	2264	99.5, 99.5
160	15.53	14.38	11.97	14.05	14.77	12.89	10.74	12.90	150-160	5.216	2269	99.8, 99.8
170	11.27	13.29	15.34	13.59	12.45	12.19	16.11	13.89	160-170	3.933	2273	99.9, 99.9
180	11.23	11.63	6.490	9.409	11.23	11.60	6.475	9.425	170-180	1.156	2274	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 896.68 lm

%lum = 39.4%

%lamp = 39.4%

Conical surface Flux(120deg): 1363.7 lm

%lum = 60.0%

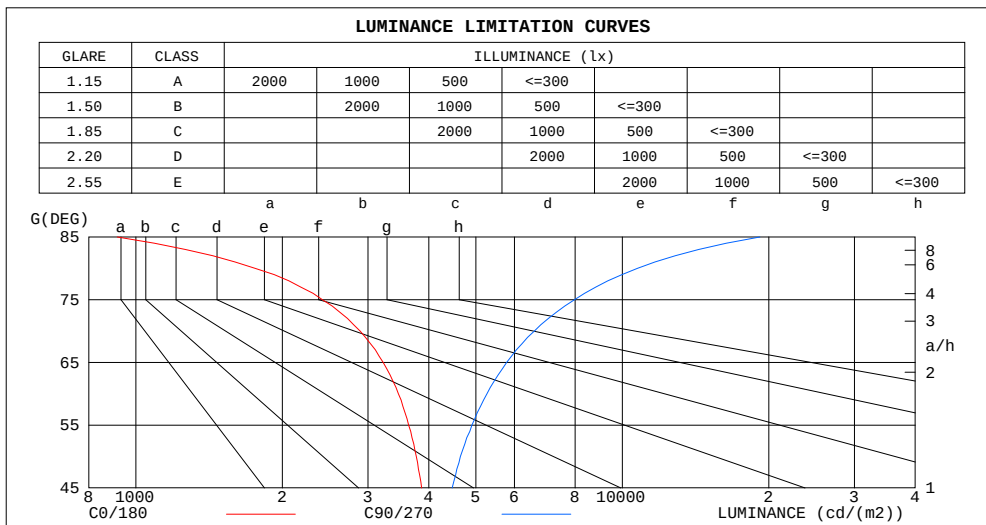
%lamp = 60.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Hill
 Test Date: 2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 43%
 Test Distance: 2.519m [K=1.0000]
 Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

LUMINANCE LIMITATION CURVES

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	916	19170
80	1759	10736
75	2418	7973
70	2892	6594
65	3224	5783
60	3464	5267
55	3637	4906
50	3772	4647
45	3867	4470

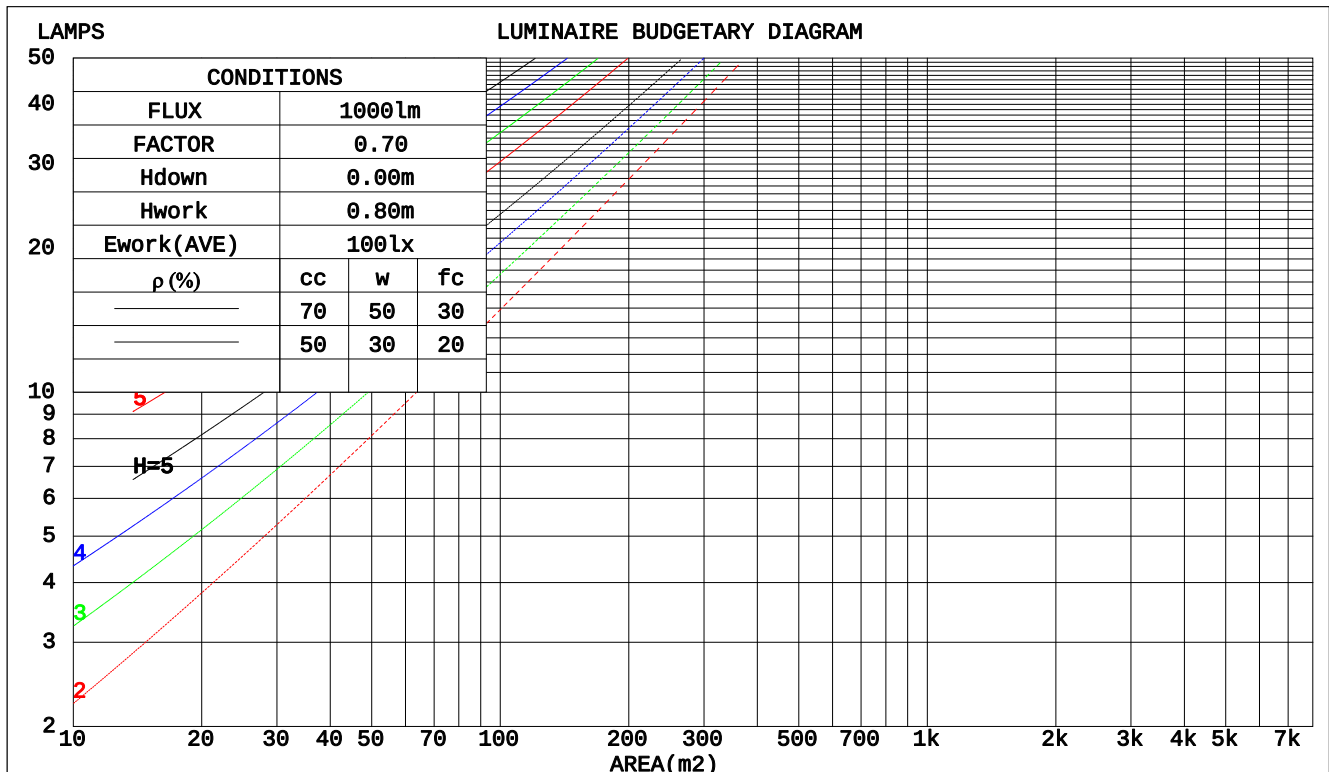
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.05	1.05	1.05	.98	.98	.98	.91	.91	.91	.88
1.0	.97	.92	.87	.94	.89	.85	.88	.84	.80	.82	.78	.76	.76	.74	.71	.68
2.0	.84	.76	.69	.81	.73	.67	.75	.69	.64	.70	.65	.61	.65	.61	.58	.55
3.0	.73	.64	.56	.70	.62	.55	.65	.58	.53	.61	.55	.50	.57	.52	.48	.45
4.0	.64	.54	.47	.62	.53	.46	.58	.50	.44	.54	.48	.42	.50	.45	.41	.38
5.0	.57	.47	.40	.55	.46	.39	.51	.44	.38	.48	.42	.36	.45	.39	.35	.32
6.0	.51	.41	.35	.49	.40	.34	.46	.39	.33	.43	.37	.32	.41	.35	.30	.28
7.0	.46	.37	.30	.45	.36	.30	.42	.34	.29	.39	.33	.28	.37	.31	.27	.25
8.0	.42	.33	.27	.41	.32	.26	.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	.21	.32	.26	.21	.31	.25	.20	.29	.24	.20	.18



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

WEC AND CCEC

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm									
NAME: LED Luminaire					TYPE: N/A			WEIGHT: N/A	
SPEC.: ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K					DIM.: N/A			SERIAL No.: N/A	
MFR.: ASD Lighting Corp					SUR.: N/A			Shielding Angle: N/A	

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.380	.216	.068	.369	.210	.067	.349	.200	.064	.330	.191	.061	.313	.182	.059		
2.0	.331	.182	.056	.322	.177	.055	.304	.169	.052	.287	.161	.050	.272	.154	.048		
3.0	.296	.157	.047	.287	.154	.046	.271	.147	.045	.256	.140	.043	.242	.134	.041		
4.0	.267	.139	.041	.259	.135	.040	.244	.130	.039	.231	.124	.037	.218	.118	.036		
5.0	.243	.124	.036	.236	.121	.035	.223	.116	.034	.210	.111	.033	.199	.106	.032		
6.0	.223	.112	.032	.216	.109	.031	.204	.105	.030	.193	.100	.029	.183	.096	.029		
7.0	.206	.102	.029	.200	.100	.028	.189	.095	.028	.179	.092	.027	.169	.088	.026		
8.0	.191	.093	.026	.186	.091	.026	.176	.088	.025	.166	.084	.024	.157	.081	.024		
9.0	.178	.086	.024	.173	.084	.024	.164	.081	.023	.155	.078	.022	.147	.075	.022		
10.0	.167	.080	.022	.162	.078	.022	.154	.075	.021	.146	.072	.021	.138	.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	.278	.278	.278	.238	.238	.238	.162	.162	.162	.093	.093	.093	.030	.030	.030	
1.0	.274	.244	.217	.234	.209	.187	.160	.144	.129	.092	.083	.075	.030	.027	.024	
2.0	.267	.221	.182	.228	.190	.158	.156	.131	.110	.090	.076	.064	.029	.025	.021	
3.0	.259	.204	.160	.222	.176	.139	.152	.122	.097	.088	.071	.057	.028	.023	.019	
4.0	.251	.191	.146	.215	.165	.126	.148	.115	.089	.086	.067	.053	.028	.022	.017	
5.0	.243	.181	.136	.209	.157	.118	.144	.110	.083	.083	.064	.049	.027	.021	.016	
6.0	.236	.173	.128	.203	.150	.112	.140	.105	.079	.081	.062	.047	.026	.020	.016	
7.0	.229	.167	.123	.197	.144	.107	.136	.101	.076	.079	.060	.045	.026	.020	.015	
8.0	.222	.161	.119	.191	.140	.104	.132	.098	.074	.077	.058	.044	.025	.019	.015	
9.0	.216	.156	.116	.186	.135	.101	.129	.095	.072	.075	.056	.043	.024	.018	.014	
10.0	.210	.152	.113	.181	.132	.099	.125	.093	.070	.073	.055	.042	.024	.018	.014	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

UGR(Unified Glare Rating) Table

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm										
NAME: LED Luminaire					TYPE: N/A			WEIGHT: N/A		
SPEC.: ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K					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	13.4	14.8	13.8	15.2	15.7	15.1	16.5	15.5	17.0	17.4
3H	14.8	16.1	15.2	16.6	17.0	17.7	19.0	18.1	19.4	19.9
4H	15.3	16.6	15.8	17.0	17.5	19.1	20.4	19.6	20.8	21.3
6H	15.6	16.8	16.1	17.3	17.8	20.6	21.8	21.1	22.3	22.8
8H	15.6	16.8	16.1	17.3	17.8	21.5	22.6	22.0	23.1	23.7
12H	15.6	16.8	16.1	17.3	17.8	22.4	23.6	23.0	24.1	24.6
4H 2H	14.4	15.7	14.9	16.1	16.6	15.7	16.9	16.1	17.4	17.9
3H	16.0	17.2	16.6	17.7	18.2	18.5	19.6	19.0	20.1	20.7
4H	16.7	17.8	17.3	18.3	18.9	20.1	21.1	20.6	21.6	22.2
6H	17.2	18.1	17.8	18.7	19.3	21.9	22.8	22.4	23.3	23.9
8H	17.4	18.2	17.9	18.8	19.4	22.8	23.7	23.4	24.3	24.9
12H	17.4	18.2	18.0	18.8	19.5	23.9	24.7	24.5	25.3	26.0
8H 4H	17.7	18.6	18.3	19.1	19.8	20.4	21.3	21.0	21.8	22.5
6H	18.6	19.3	19.2	19.9	20.6	22.5	23.2	23.1	23.8	24.5
8H	18.9	19.5	19.5	20.2	20.9	23.7	24.3	24.3	25.0	25.6
12H	19.1	19.7	19.8	20.3	21.1	25.1	25.6	25.7	26.3	27.0
12H 4H	18.0	18.8	18.6	19.4	20.1	20.4	21.2	21.0	21.8	22.5
6H	19.1	19.8	19.7	20.4	21.1	22.6	23.2	23.2	23.9	24.6
8H	19.6	20.2	20.3	20.8	21.6	23.9	24.5	24.5	25.1	25.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 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, 2274 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.9)
Area: 0.138 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

UTILIZATION FACTORS TABLE

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

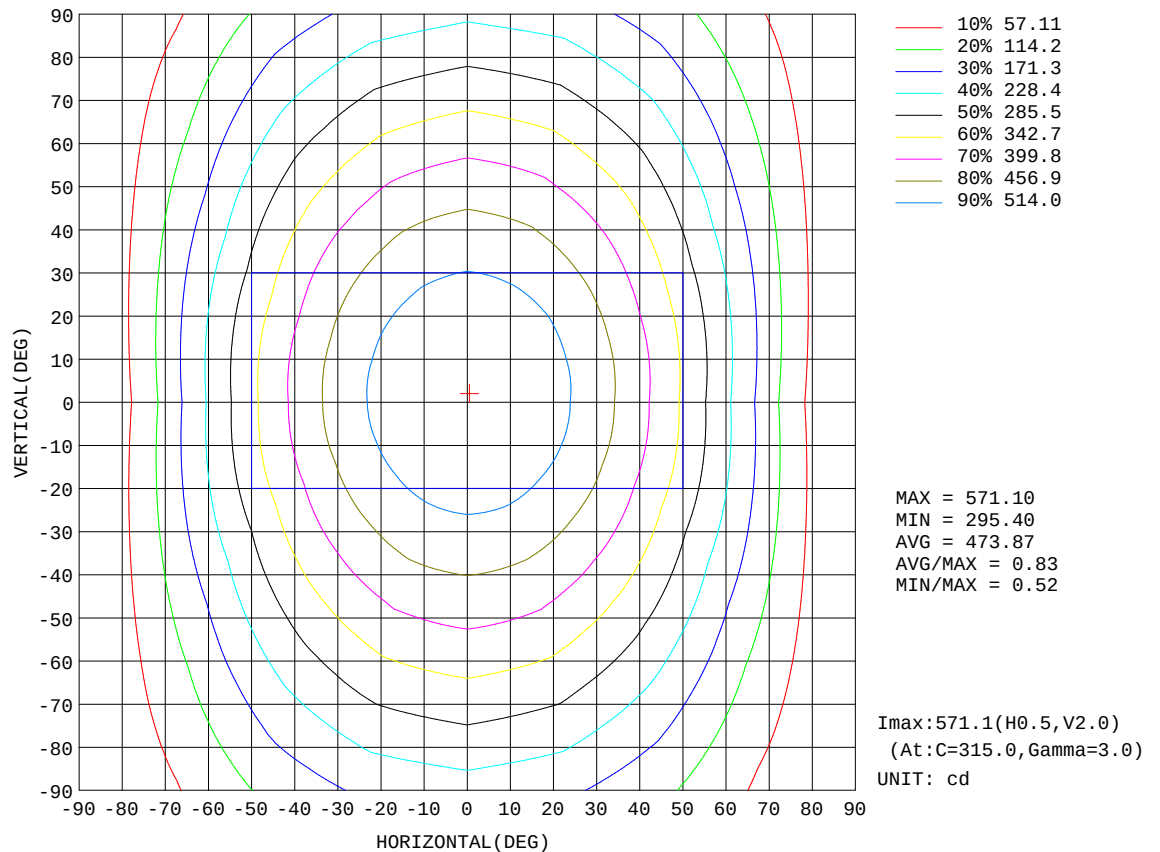
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	30	48	37	30	23
0.80	59	47	39	58	46	38	56	45	38	30
1.00	67	55	46	66	54	46	63	55	45	37
1.25	74	62	54	72	61	53	69	59	52	43
1.50	79	67	59	77	66	58	73	64	57	47
2.00	87	76	68	84	74	67	79	71	64	54
2.50	91	81	73	88	79	72	83	75	69	58
3.00	95	86	78	92	83	77	86	79	74	62
4.00	99	92	85	96	89	83	90	84	79	67
5.00	102	95	90	99	93	88	92	87	83	70
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

ISOCANDELA DIAGRAM

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

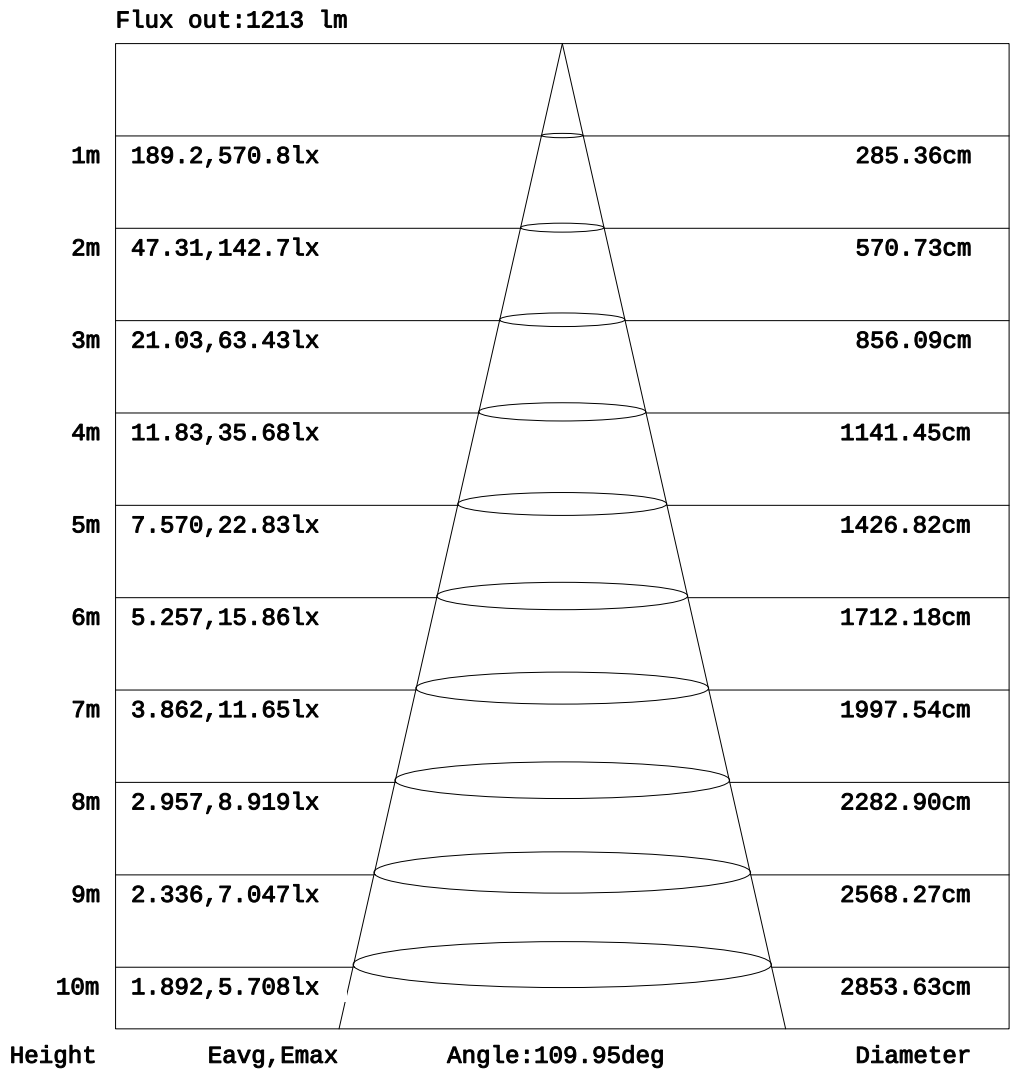


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

AAI Figure

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



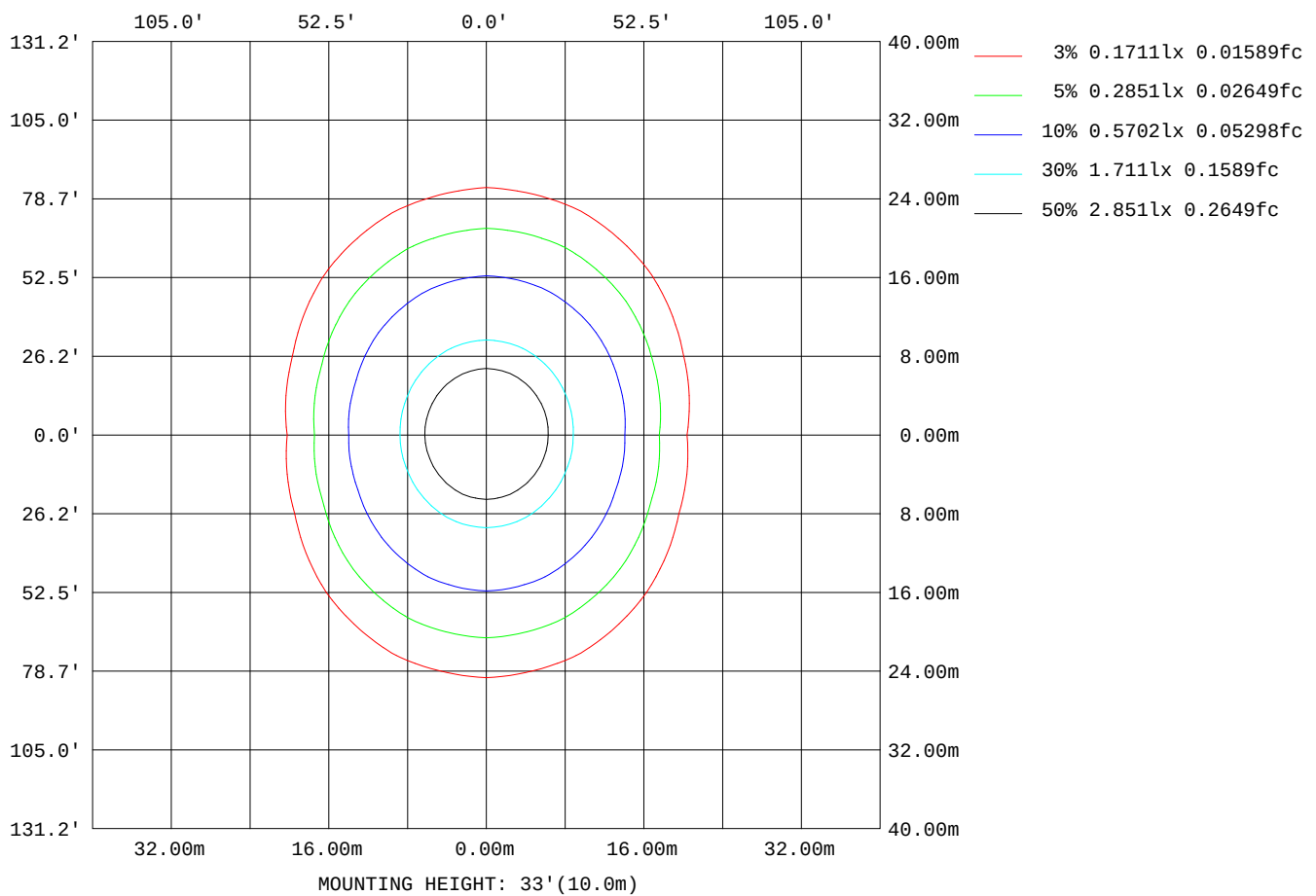
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

ISOLUX DIAGRAM

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	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:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

LED Avg.L Report

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

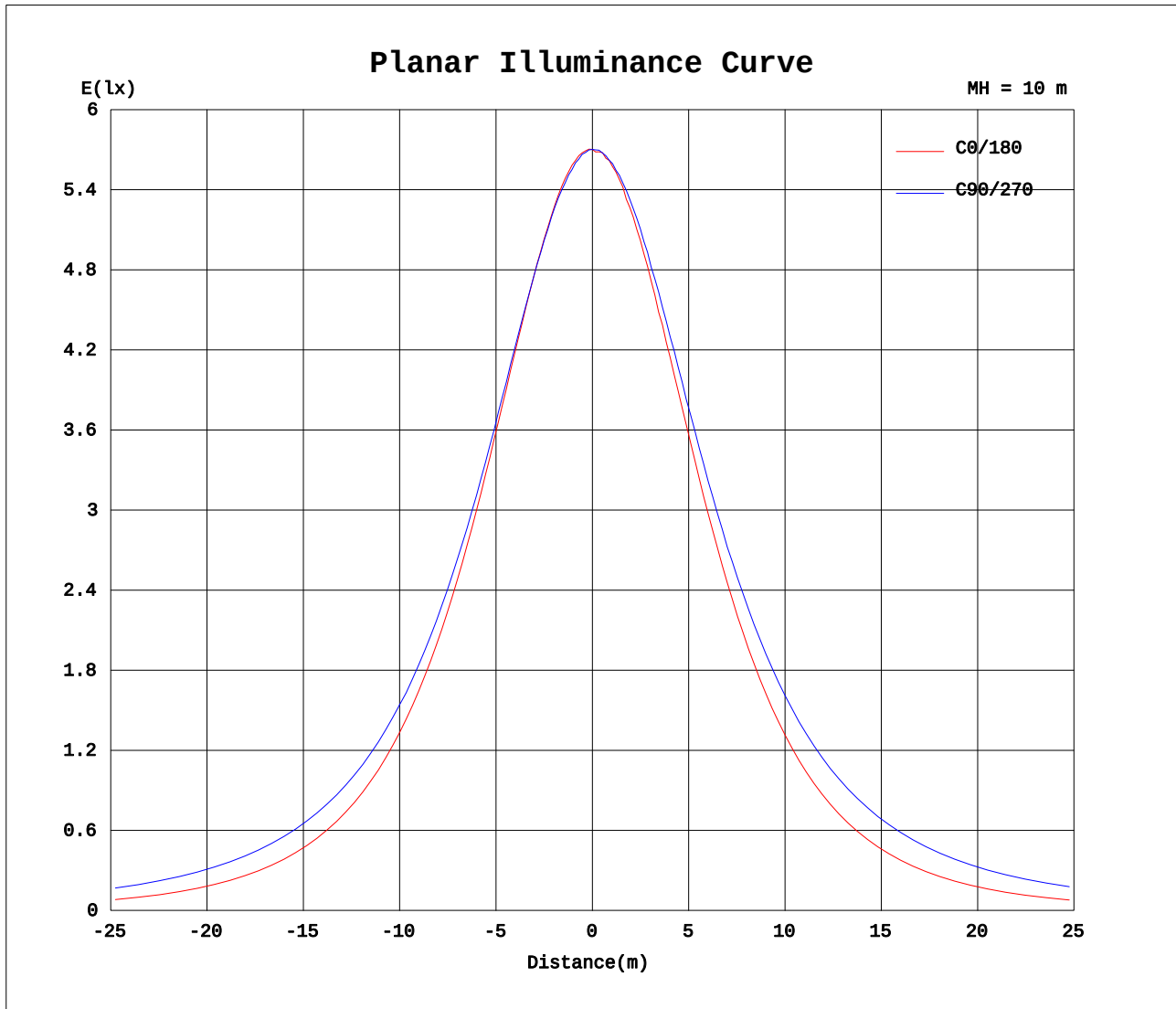
AvgL	cd/m2
L_0~180(65)av	3177
L_0~180(75)av	2361
L_0~180(85)av	911
L_90~270(65)av	5947
L_90~270(75)av	8211
L_90~270(85)av	19813
L_45(65)av	4845
L_45(75)av	6147
L_45(85)av	13392

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:Hill
 Test Date:2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity:43%
 Test Distance:2.519m [K=1.0000]
 Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Hill
 Test Date: 2024-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 43%
 Test Distance: 2.519m [K=1.0000]
 Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.01V I:0.1951A P:22.950W PF:0.9815 Freq:60.00Hz Lamp Flux:2225.232x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21-MV-24D23SM-RGBW-BZ 5000K	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	570	570	570	570	570	570	570	570	570	570	570	570	570	570	570	570			
5	568	567	568	567	566	566	567	567	568	568	569	569	569	568	571	567			
10	561	560	560	559	559	557	558	558	558	560	562	563	565	563	565	562			
15	548	547	548	548	547	547	545	544	546	547	552	554	556	555	554	551			
20	531	530	532	533	534	531	529	527	529	531	537	542	545	543	541	535			
25	509	508	512	516	517	513	508	504	506	508	519	526	532	528	521	514			
30	482	482	488	496	499	494	485	477	478	484	495	508	515	510	502	490			
35	451	452	461	475	479	472	459	447	447	454	472	488	495	491	477	461			
40	416	418	433	451	458	449	429	412	411	420	444	465	477	469	451	428			
45	377	381	403	427	436	424	400	375	372	384	415	442	456	446	422	393			
50	335	342	371	401	412	400	368	336	329	345	384	417	433	422	393	356			
55	288	300	339	376	388	374	336	295	282	304	352	390	408	395	361	316			
60	239	258	307	348	363	347	305	254	233	262	319	363	382	368	329	274			
65	188	216	275	321	337	320	273	213	183	220	286	335	356	340	296	233			
70	136	174	242	293	311	293	243	173	131	179	253	307	329	312	264	192			
75	86.3	135	211	265	285	266	213	136	82.3	140	222	279	302	284	232	153			
80	42.1	101	182	238	257	238	184	103	39.6	105	191	250	274	255	201	118			
85	11.0	71.4	153	211	231	212	157	75.6	10.9	75.0	162	222	246	227	172	86.5			
90	0.26	48.5	127	184	204	185	131	53.1	0.19	50.8	135	195	218	200	145	61.5			
95	0.88	31.5	103	158	177	160	107	36.0	0.79	33.0	110	168	191	173	119	41.9			
100	2.24	19.4	82.1	133	152	134	85.9	23.3	2.31	19.9	87.4	143	165	147	96.1	26.7			
105	3.86	11.3	63.0	109	128	111	66.8	14.2	4.10	10.9	67.6	118	138	122	74.7	15.5			
110	5.46	6.29	46.4	87.7	104	89.5	49.9	8.43	5.81	4.24	49.4	94.6	113	98.7	55.5	7.31			
115	7.00	3.14	32.8	68.2	83.3	70.1	35.5	4.01	7.37	2.05	33.7	72.7	88.9	76.2	38.7	2.42			
120	8.39	3.51	22.7	50.7	63.1	52.2	25.5	3.16	8.67	2.50	20.5	52.3	67.2	55.3	24.8	2.90			
125	9.67	4.89	13.6	36.5	45.6	37.8	15.4	4.09	9.88	3.52	9.63	35.3	47.5	38.1	12.4	3.83			
130	10.7	6.92	6.56	24.1	32.5	25.5	7.62	5.84	10.8	5.70	3.04	19.6	29.5	21.3	3.61	5.26			
135	11.7	9.16	4.66	13.3	19.2	14.0	4.40	8.18	11.7	8.07	3.47	7.19	14.7	8.44	3.54	7.11			
140	12.8	10.9	5.32	5.46	8.80	5.70	5.08	10.2	12.6	10.1	4.04	3.58	4.09	3.90	4.30	8.85			
145	13.6	12.3	7.02	5.50	5.38	5.34	6.22	12.1	13.5	11.4	5.40	4.15	4.37	4.61	5.52	10.7			
150	14.5	13.3	9.94	6.48	6.09	6.05	9.12	13.5	14.2	12.8	8.38	5.39	5.32	5.89	8.01	12.3			
155	15.3	13.5	12.6	9.58	8.21	9.02	12.1	14.5	14.9	14.0	11.1	8.17	7.21	8.35	10.7	12.8			
160	15.5	13.4	14.4	12.9	12.0	12.5	14.1	14.6	14.8	13.9	12.9	11.6	10.7	11.5	12.9	14.3			
165	14.0	13.6	14.7	15.0	14.6	14.6	14.7	14.3	14.0	13.6	12.9	13.7	13.7	13.7	14.8	14.9			
170	11.3	13.7	13.3	14.3	15.3	14.5	13.6	12.8	12.4	12.3	12.2	12.0	16.1	14.2	13.9	14.1			
175	9.24	10.3	12.2	13.0	13.1	13.2	11.1	10.7	11.1	11.7	11.5	10.9	10.4	11.6	12.3	10.0			
180	11.2	11.2	11.6	11.1	6.49	7.73	9.41	10.1	11.2	11.2	11.6	11.1	6.48	7.83	9.43	10.1			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Hill
Test Date:2024-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:43%
Test Distance:2.519m [K=1.0000]
Remarks: ASD-OLWS-21-MV-24D23SM-RGBW-BZ