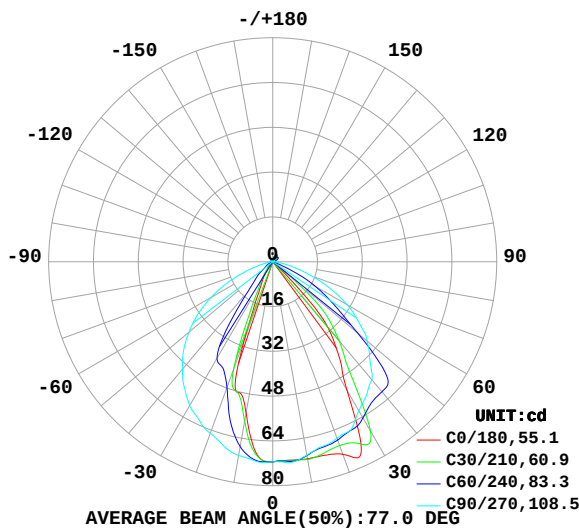


LUMINAIRE PHOTOMETRIC TEST REPORT

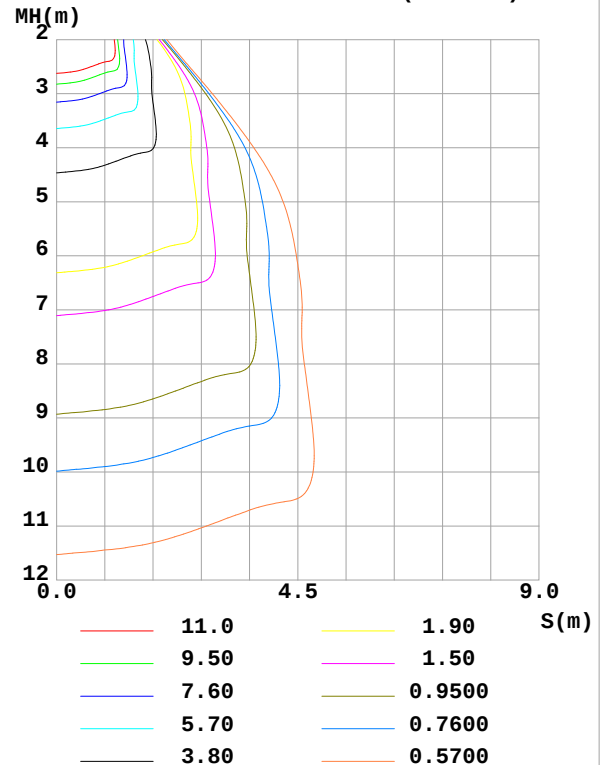
Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 41.10 lm/W			
MODEL	ASD-EXL-LB-RW	I _{max} (cd)	76.68	S/MH(C0/180)	0.55
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	10.95	TOTAL FLUX(lm)	108.92	η UP, DN(C0-180)	2.2, 51.2
NOMINAL FLUX(lm)	108.92	CIE CLASS	DIRECT	η UP, DN(C180-360)	2.0, 44.7
LAMPS INSIDE	1	η up(%)	4.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	10.95	η down(%)	95.8	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date:
Stability time: 1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity: 65.0%
Test Distance: 2.505m [K=1.0000]
Remarks: Stability time: 1800 s

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

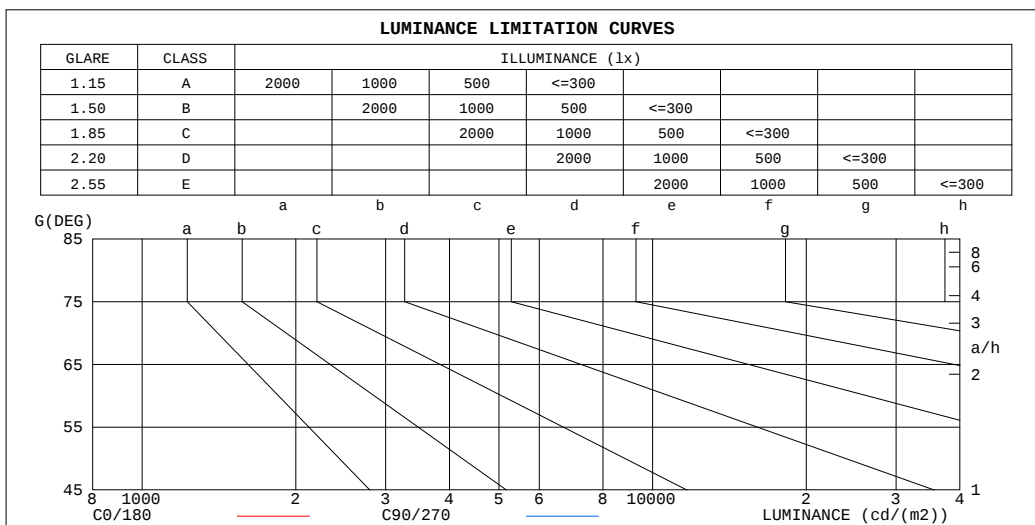
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	71.44	71.09	70.16	63.78	54.95	62.04	70.29	70.95	0- 10	6.634	6.634	6.09, 6.09
20	73.17	68.55	67.04	45.39	29.82	44.92	65.22	68.31	10- 20	17.62	24.25	22.3, 22.3
30	53.10	69.46	61.54	20.11	6.852	17.40	59.34	66.64	20- 30	23.55	47.80	43.9, 43.9
40	30.70	49.19	55.04	6.629	2.572	5.776	50.14	42.08	30- 40	22.76	70.56	64.8, 64.8
50	1.922	25.10	44.01	2.658	1.208	2.386	38.98	19.99	40- 50	17.23	87.78	80.6, 80.6
60	0.8679	3.154	30.67	1.233	0.6141	1.038	25.44	1.834	50- 60	9.945	97.73	89.7, 89.7
70	0.0449	0.6190	14.71	0.6777	0.5801	0.6302	10.52	0.4148	60- 70	4.814	102.5	94.1, 94.1
80	0.0302	0.0091	3.396	0.5104	0.5970	0.4946	2.013	0.0127	70- 80	1.546	104.1	95.6, 95.6
90	0.0173	0.0065	0.0051	0.0075	0.0010	0.0009	0.0072	0.0518	80- 90	0.3122	104.4	95.8, 95.8
100	0.1354	0.1355	0.1228	0.0520	0.0544	0.0686	0.1392	0.1469	90-100	0.0650	104.5	95.9, 95.9
110	0.2207	0.3511	0.3974	0.1499	0.1590	0.1605	0.3860	0.3750	100-110	0.2478	104.7	96.1, 96.1
120	0.2634	1.228	0.6725	0.2969	0.1499	0.3128	0.6129	1.315	110-120	0.5366	105.2	96.6, 96.6
130	0.9759	2.789	0.8956	0.5734	0.2901	0.5657	0.8091	2.668	120-130	0.8396	106.1	97.4, 97.4
140	0.6152	2.452	1.090	0.7400	0.5461	0.7158	0.9857	2.273	130-140	0.9885	107.1	98.3, 98.3
150	2.988	2.258	0.8684	0.5831	0.8153	0.5385	0.8968	2.154	140-150	0.9326	108.0	99.2, 99.2
160	2.607	1.062	1.077	0.5574	0.8813	0.4991	0.7826	1.135	150-160	0.5819	108.6	99.7, 99.7
170	1.581	1.362	0.8720	0.5163	0.5120	0.5248	0.7107	1.393	160-170	0.2574	108.8	99.9, 99.9
180	0	0.3440	0.1998	0.0426	0.0457	0.2984	0.2580	0.1204	170-180	0.0719	108.9	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

LUMINANCE LIMITATION CURVES

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8	124
80	2	195
75	1	301
70	1	428
65	12	535
60	18	610
55	23	649
50	32	681
45	122	689

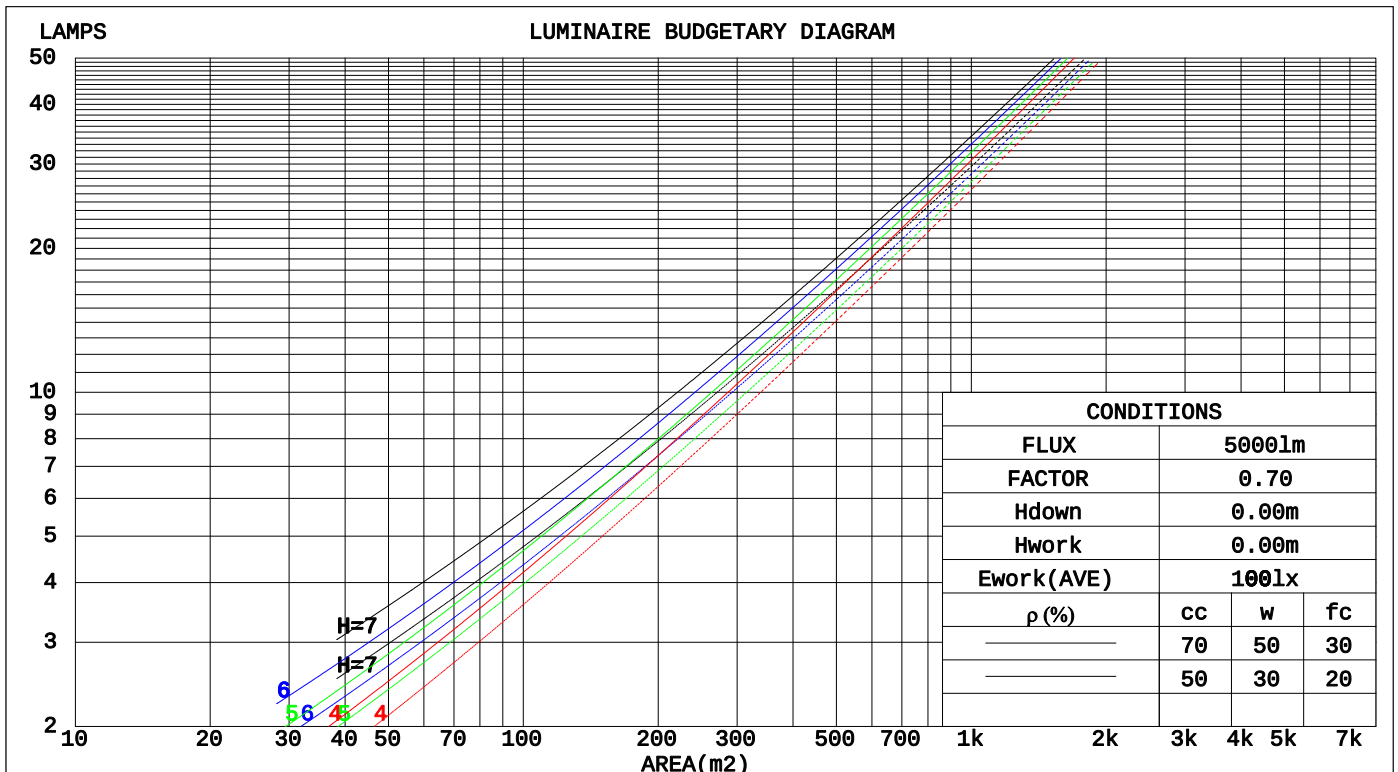
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date:
 Stability time: 1800 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.494
 Humidity: 65.0%
 Test Distance: 2.505m [K=1.0000]
 Remarks: Stability time: 1800 s

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1.0	1.07	1.04	1.01	1.04	1.02	.99	.00	.97	.95	.95	.93	.92	.91	.90	.88	.86
2.0	.97	.92	.87	.95	.90	.86	.91	.87	.83	.87	.84	.81	.83	.81	.78	.76
3.0	.88	.81	.76	.86	.80	.75	.82	.77	.73	.79	.75	.72	.76	.73	.70	.68
4.0	.80	.73	.67	.78	.72	.67	.75	.70	.65	.73	.68	.64	.70	.66	.63	.61
5.0	.73	.65	.60	.71	.65	.59	.69	.63	.58	.67	.62	.58	.65	.60	.57	.55
6.0	.67	.59	.54	.66	.59	.54	.64	.57	.53	.62	.56	.52	.60	.55	.51	.50
7.0	.61	.54	.49	.61	.54	.49	.59	.53	.48	.57	.52	.47	.55	.51	.47	.45
8.0	.57	.50	.45	.56	.49	.44	.55	.48	.44	.53	.47	.43	.52	.47	.43	.41
9.0	.53	.46	.41	.52	.45	.41	.51	.45	.40	.49	.44	.40	.48	.43	.40	.38
10.0	.49	.42	.38	.49	.42	.38	.47	.41	.37	.46	.41	.37	.45	.40	.37	.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

WEC AND CCEC

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm					
NAME: ASD-EXL-LB-RW			TYPE:		WEIGHT:
SPEC.: 4000K			DIM.:		SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp			SUR.:		Shielding Angle:

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	.229	.130	.041	.221	.126	.040	.206	.118	.038	.192	.111	.035	.179	.104	.033															
2.0	.222	.121	.037	.215	.118	.036	.201	.112	.035	.189	.106	.033	.178	.101	.032															
3.0	.211	.112	.034	.204	.109	.033	.193	.104	.032	.182	.100	.031	.172	.095	.029															
4.0	.199	.103	.030	.194	.101	.030	.183	.097	.029	.174	.093	.028	.165	.089	.027															
5.0	.188	.096	.028	.183	.094	.027	.174	.090	.027	.165	.087	.026	.157	.084	.025															
6.0	.177	.089	.025	.173	.087	.025	.165	.084	.025	.157	.082	.024	.150	.079	.023															
7.0	.168	.083	.023	.164	.081	.023	.156	.079	.023	.149	.076	.022	.143	.074	.022															
8.0	.159	.077	.022	.155	.076	.022	.148	.074	.021	.142	.072	.021	.136	.070	.020															
9.0	.150	.073	.020	.147	.072	.020	.141	.070	.020	.135	.068	.019	.130	.066	.019															
10.0	.143	.068	.019	.140	.068	.019	.134	.066	.019	.129	.064	.018	.124	.062	.018															

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.222	.222	.222	.190	.190	.190	.130	.130	.130	.074	.074	.074	.024	.024	.024	
1.0	.207	.189	.173	.177	.162	.149	.121	.111	.103	.070	.064	.060	.022	.021	.019	
2.0	.195	.164	.139	.167	.141	.120	.114	.098	.084	.066	.057	.049	.021	.018	.016	
3.0	.185	.146	.115	.159	.126	.100	.109	.088	.070	.063	.051	.041	.020	.017	.013	
4.0	.177	.132	.098	.152	.114	.085	.104	.080	.060	.060	.047	.036	.019	.015	.012	
5.0	.169	.121	.086	.145	.105	.075	.100	.073	.053	.058	.043	.031	.019	.014	.010	
6.0	.163	.113	.077	.140	.098	.067	.096	.068	.047	.056	.040	.028	.018	.013	.009	
7.0	.156	.106	.070	.134	.092	.061	.093	.064	.043	.054	.038	.026	.017	.012	.009	
8.0	.151	.100	.065	.130	.087	.057	.090	.061	.040	.052	.036	.024	.017	.012	.008	
9.0	.145	.095	.061	.125	.082	.053	.087	.058	.038	.050	.034	.022	.016	.011	.007	
10.0	.140	.091	.058	.121	.079	.050	.084	.055	.036	.049	.033	.021	.016	.011	.007	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:
 Stability time:1800 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
 Humidity:65.0%
 Test Distance:2.505m [K=1.0000]
 Remarks: Stability time:1800 s

UGR(Unified Glare Rating) Table

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm										
NAME: ASD-EXL-LB-RW					TYPE:			WEIGHT:		
SPEC.: 4000K					DIM.:			SERIAL No.: s25100001d-01		
MFR.: ASD Lighting Corp					SUR.:			Shielding 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	---	---	---	---	---	---	---	---	---	---
3H	---	---	---	---	---	---	---	---	---	---
4H	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---
12H	---	---	---	---	---	---	---	---	---	---
4H 2H	---	---	---	---	---	---	---	---	---	---
3H	---	---	---	---	---	---	---	---	---	---
4H	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---
12H	---	---	---	---	---	---	---	---	---	---
8H 4H	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---
12H	---	---	---	---	---	---	---	---	---	---
12H 4H	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.0 / - 0.0					+ 0.0 / - 0.0				
1.5H	+ 0.0 / - 0.0					+ 0.0 / - 0.0				
2.0H	+ 0.0 / - 0.0					+ 0.0 / - 0.0				

CIE Pub.117, 108.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -7.7)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

UTILIZATION FACTORS TABLE

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

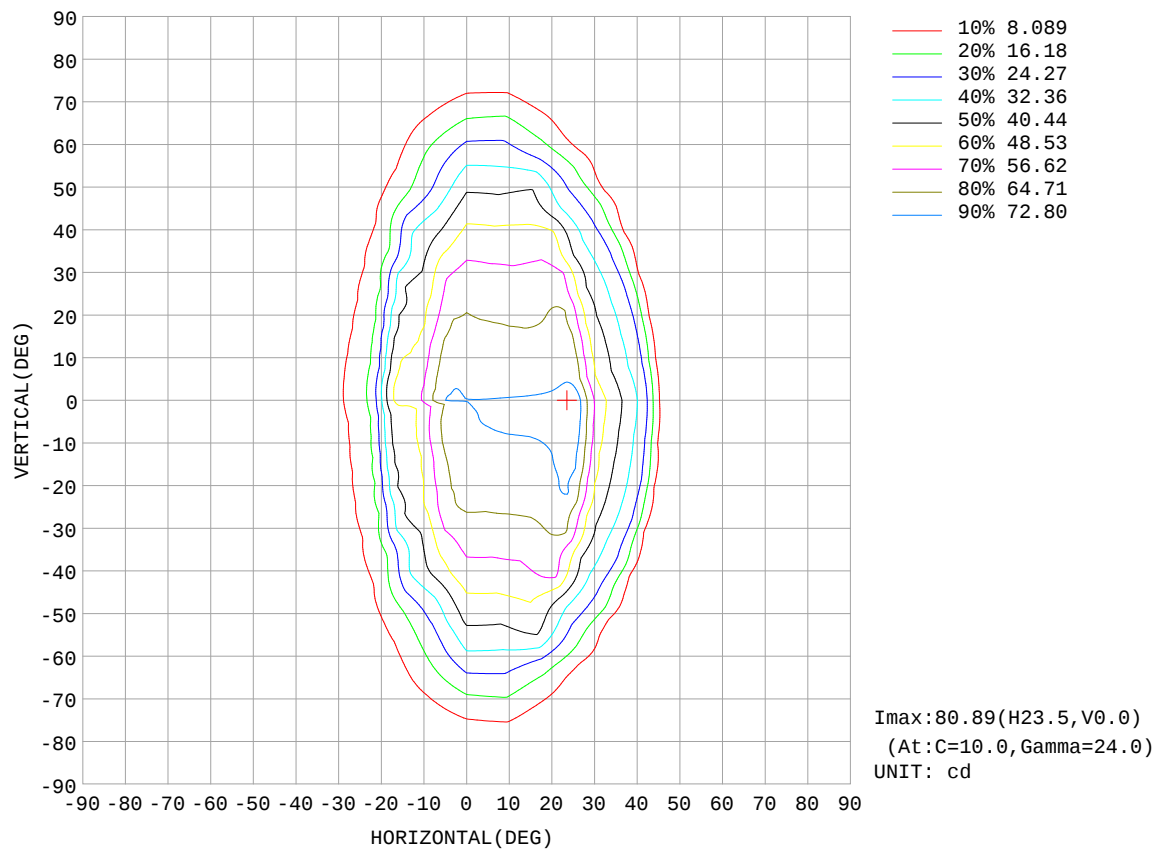
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	60	54	69	60	54	67	59	54	49
0.80	79	70	64	78	69	64	76	68	63	58
1.00	86	78	72	85	77	72	83	77	71	65
1.25	92	84	79	91	83	78	88	82	77	71
1.50	96	89	84	94	88	83	91	86	82	75
2.00	101	95	90	99	94	89	96	91	87	80
2.50	104	98	94	102	97	93	98	94	90	82
3.00	106	101	97	104	100	96	100	96	93	85
4.00	109	105	102	107	103	100	102	99	97	88
5.00	111	107	104	108	105	103	103	101	99	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:
 Stability time:1800 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
 Humidity:65.0%
 Test Distance:2.505m [K=1.0000]
 Remarks: Stability time:1800 s

ISOCANDELA DIAGRAM

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

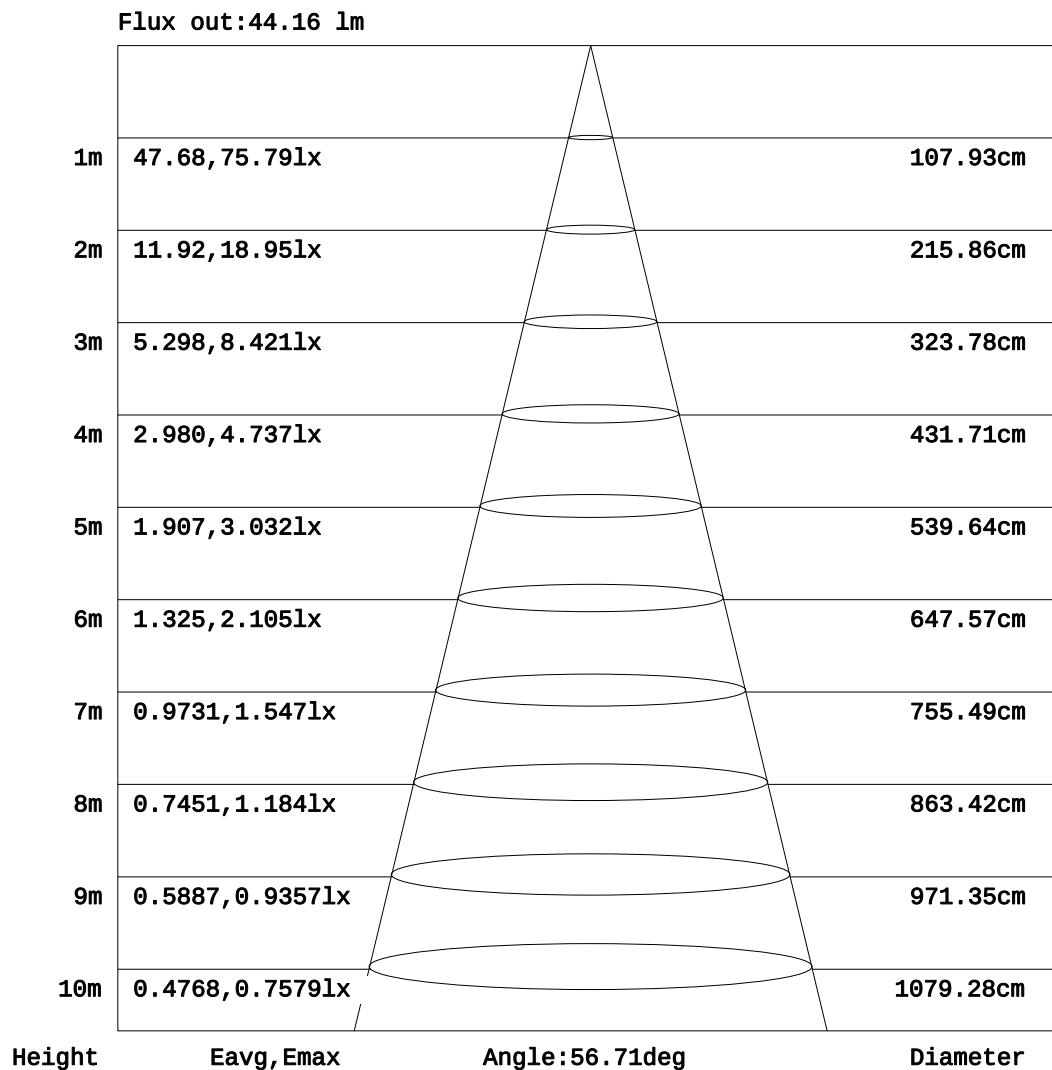


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

AAI Figure

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



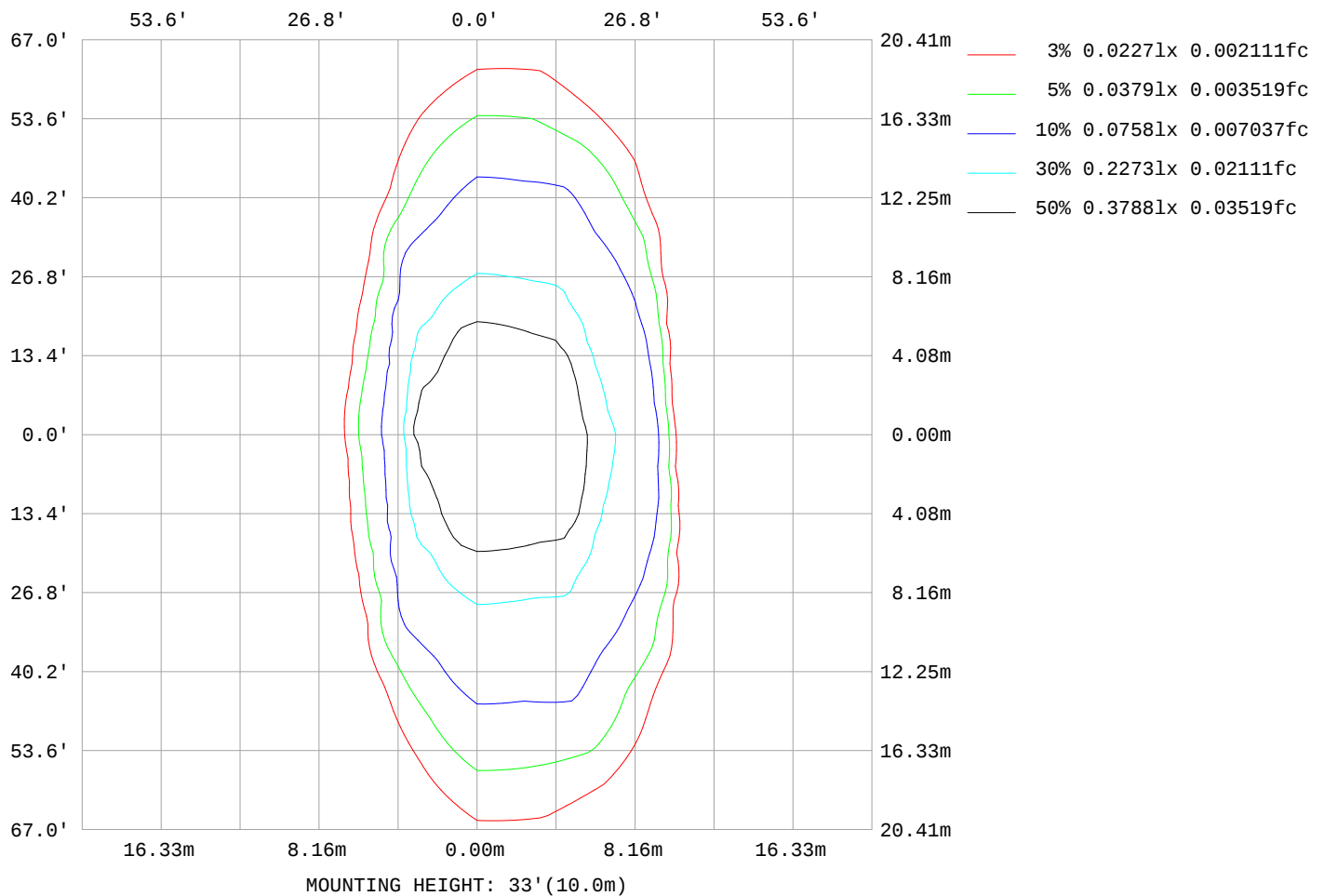
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

ISOLUX DIAGRAM

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date:
Stability time: 1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity: 65.0%
Test Distance: 2.505m [K=1.0000]
Remarks: Stability time: 1800 s

LED Avg.L Report

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

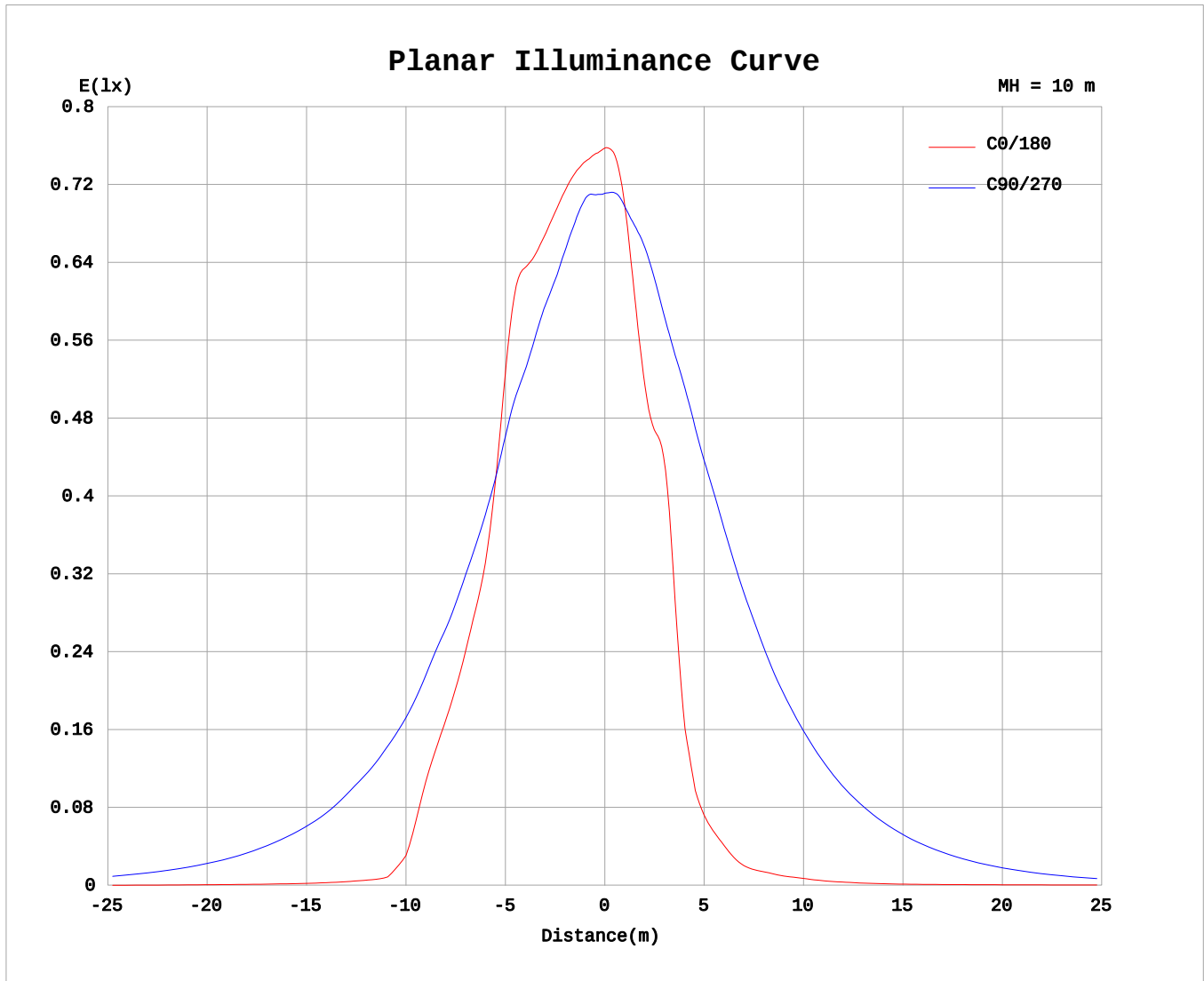
AvgL	cd/m2
L_0~180(65)av	13
L_0~180(75)av	12
L_0~180(85)av	36
L_90~270(65)av	480
L_90~270(75)av	251
L_90~270(85)av	88
L_45(65)av	19
L_45(75)av	13
L_45(85)av	25

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date:
 Stability time: 1800 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.494
 Humidity: 65.0%
 Test Distance: 2.505m [K=1.0000]
 Remarks: Stability time: 1800 s

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm		
NAME: ASD-EXL-LB-RW	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s25100001d-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
5	71.1	71.1	71.1	71.1	71.3	71.4	71.6	71.7	71.9	72.0	72.0	72.0	71.8	71.4	70.8	70.1	69.3	68.8	68.5
10	71.4	71.4	71.6	71.7	71.4	70.8	70.3	69.9	69.8	70.2	70.5	69.9	68.1	65.4	62.2	59.2	56.8	55.5	54.9
15	71.6	71.6	71.6	70.7	69.8	69.2	68.6	68.2	68.0	68.3	68.1	65.2	59.3	53.7	50.3	48.5	47.9	48.3	48.3
20	73.2	73.1	71.6	69.9	68.8	68.3	67.8	67.3	66.9	67.0	65.9	59.6	50.8	45.5	45.3	42.7	36.3	31.2	29.8
25	74.8	75.9	74.3	71.5	69.2	67.3	66.3	66.1	65.6	66.1	64.3	53.4	45.0	42.8	31.0	18.9	13.9	12.1	11.4
30	53.1	54.6	60.4	69.7	71.6	67.3	64.4	62.5	61.4	61.5	58.4	45.2	41.5	26.6	13.6	9.51	7.95	7.13	6.85
35	41.3	41.4	42.8	47.8	61.2	67.7	61.5	59.3	58.2	58.4	52.0	38.6	30.9	13.0	8.31	5.95	4.32	3.64	3.48
40	30.7	30.5	33.0	36.9	41.7	56.7	60.7	55.9	54.7	55.0	45.5	35.3	16.5	8.22	5.03	3.29	2.75	2.56	2.57
45	8.17	10.4	20.5	27.1	31.7	38.5	57.5	51.6	49.2	49.0	36.0	27.9	10.15	5.14	2.99	2.46	1.98	1.82	1.89
50	1.92	1.98	2.61	7.72	21.6	28.6	39.5	47.6	44.0	44.0	28.2	17.5	6.78	3.06	2.25	1.71	1.36	1.21	1.21
55	1.24	1.30	1.56	1.90	5.08	18.9	26.8	43.0	37.6	37.4	22.2	10.8	3.73	2.30	1.49	1.15	0.91	0.78	0.76
60	0.87	0.90	1.00	1.16	1.64	4.67	17.6	30.8	30.7	30.7	17.6	6.88	2.53	1.46	1.01	0.78	0.68	0.63	0.61
65	0.49	0.54	0.64	0.74	0.93	1.50	7.36	17.3	23.5	22.7	12.7	3.51	1.64	0.98	0.74	0.65	0.61	0.59	0.59
70	0.04	0.06	0.17	0.32	0.50	0.74	1.67	9.26	16.2	14.7	7.63	2.09	1.04	0.73	0.63	0.60	0.59	0.58	0.58
75	0.02	0.02	0.01	0.01	0.07	0.27	0.61	3.13	9.00	7.84	3.69	1.25	0.74	0.59	0.56	0.56	0.57	0.58	0.59
80	0.03	0.03	0.02	0.02	0.01	0.00	0.10	0.63	3.56	3.40	1.66	0.75	0.54	0.50	0.52	0.55	0.57	0.59	0.60
85	0.06	0.06	0.05	0.04	0.02	0.01	0.00	0.01	0.73	1.09	0.65	0.42	0.40	0.42	0.46	0.51	0.53	0.55	0.56
90	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
95	0.09	0.07	0.06	0.08	0.08	0.08	0.07	0.07	0.05	0.03	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
100	0.14	0.11	0.10	0.13	0.13	0.14	0.16	0.22	0.38	0.12	0.15	0.10	0.07	0.06	0.05	0.05	0.05	0.04	0.05
105	0.18	0.14	0.14	0.18	0.19	0.23	0.37	0.73	0.55	0.24	0.27	0.18	0.12	0.10	0.09	0.09	0.10	0.08	0.10
110	0.22	0.18	0.18	0.24	0.29	0.41	0.83	1.41	0.76	0.40	0.46	0.32	0.20	0.16	0.14	0.14	0.15	0.12	0.16
115	0.31	0.26	0.27	0.37	0.44	0.78	1.70	1.64	1.10	0.55	0.62	0.51	0.31	0.23	0.20	0.20	0.20	0.16	0.22
120	0.26	0.24	0.32	0.52	0.81	1.65	2.22	1.80	1.54	0.67	0.70	0.67	0.47	0.32	0.27	0.27	0.24	0.18	0.15
125	0.49	0.49	0.57	1.00	1.78	2.53	2.31	1.72	1.64	0.79	0.74	0.79	0.64	0.46	0.37	0.35	0.29	0.30	0.29
130	0.98	0.85	1.21	1.86	2.82	2.75	2.54	1.83	1.51	0.90	0.76	0.88	0.79	0.63	0.51	0.37	0.31	0.29	0.29
135	2.19	1.89	1.96	1.90	2.80	2.88	2.35	2.18	1.50	0.99	0.80	0.97	0.94	0.80	0.62	0.49	0.39	0.37	0.38
140	0.62	1.01	2.54	2.54	2.29	2.61	2.29	3.23	1.55	1.09	0.85	1.00	1.07	0.86	0.62	0.60	0.60	0.55	0.55
145	2.79	2.56	2.55	2.71	2.41	1.98	2.20	2.40	1.55	1.14	0.87	0.88	0.92	0.76	0.77	0.72	0.74	0.68	0.73
150	2.99	2.83	2.38	2.69	2.31	2.21	2.61	1.54	1.17	0.87	0.64	0.72	0.82	0.62	0.55	0.57	0.75	0.78	0.82
155	2.78	2.66	2.18	2.35	2.38	1.48	1.61	1.46	1.29	1.01	0.74	0.72	0.75	0.62	0.58	0.52	0.34	0.37	0.37
160	2.61	2.58	2.33	0.70	0.72	1.41	1.70	1.49	1.33	1.08	0.76	0.75	0.71	0.62	0.50	0.43	0.51	0.75	0.88
165	0.60	0.64	0.62	1.50	1.62	1.47	1.48	1.44	1.29	1.11	0.78	0.74	0.68	0.56	0.47	0.45	0.45	0.45	0.36
170	1.58	1.56	1.57	1.51	1.41	1.32	1.22	1.14	0.98	0.87	0.62	0.56	0.55	0.53	0.50	0.50	0.52	0.50	0.51
175	1.31	1.31	1.31	1.30	1.26	1.19	1.04	0.88	0.89	0.78	0.60	0.49	0.43	0.37	0.34	0.29	0.22	0.19	0.15
180	0.00	0.00	0.18	0.32	0.35	0.33	0.30	0.28	0.23	0.20	0.15	0.13	0.06	0.04	0.05	0.05	0.05	0.05	0.05

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:10.950V I:0.2420A P:2.6500W PF:0.0000 Freq:0Hz Lamp Flux:108.92x1 lm																	
NAME: ASD-EXL-LB-RW									TYPE:			WEIGHT:					
SPEC.: 4000K									DIM.:			SERIAL No.: s25100001d-01					
MFR.: ASD Lighting Corp									SUR.:			Shielding Angle:					

Table--2

UNIT: cd

C(°) γ (°)	C(°)																	
	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	
0	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	
5	68.7	68.4	69.1	70.0	70.7	71.2	71.4	71.5	71.5	71.4	71.4	71.5	71.5	71.5	71.5	71.3	71.2	
10	55.7	55.9	57.9	60.4	63.7	67.1	69.5	70.3	70.3	70.1	70.1	70.3	70.7	71.2	71.8	71.9	71.7	
15	48.3	48.5	48.4	49.4	52.9	58.7	64.8	67.8	68.0	67.9	68.3	69.2	69.9	70.5	70.9	71.8	72.1	
20	32.1	33.5	41.0	45.3	44.5	47.8	56.4	64.0	65.2	65.0	65.5	66.2	67.4	69.2	71.0	72.2	73.3	
25	12.1	12.8	17.8	27.0	40.1	42.0	48.9	60.0	62.3	62.4	63.3	64.3	65.6	68.1	72.6	74.8	75.1	
30	7.13	7.62	8.80	11.9	22.9	39.8	42.3	55.4	59.3	59.3	60.3	61.7	64.9	68.4	63.2	56.4	53.7	
35	3.74	4.08	5.29	7.38	11.3	27.0	36.7	47.8	55.0	54.8	56.1	59.2	63.1	51.3	43.9	42.4	41.6	
40	2.69	2.70	2.95	4.24	7.32	13.6	32.7	40.2	50.1	50.3	52.2	56.4	46.1	38.1	34.1	31.7	31.0	
45	1.90	1.92	2.24	2.76	4.20	8.67	24.5	32.5	45.1	45.1	47.6	46.0	33.7	28.3	23.4	15.0	9.21	
50	1.23	1.28	1.52	1.98	2.80	5.51	14.2	25.1	39.0	39.2	42.6	31.1	24.7	15.3	3.92	2.18	1.95	
55	0.78	0.84	1.02	1.27	1.99	3.11	8.82	20.6	32.6	33.0	33.7	22.5	13.2	2.45	1.66	1.39	1.26	
60	0.63	0.65	0.71	0.87	1.21	2.24	4.99	15.9	25.4	26.3	20.7	13.6	2.37	1.30	1.01	0.90	0.87	
65	0.60	0.61	0.62	0.67	0.84	1.30	2.73	10.1	17.9	19.3	12.6	3.32	1.08	0.75	0.61	0.54	0.49	
70	0.59	0.59	0.59	0.60	0.66	0.87	1.65	5.19	10.5	11.6	5.83	0.99	0.51	0.31	0.15	0.07	0.05	
75	0.59	0.57	0.56	0.55	0.56	0.64	0.97	2.36	5.16	5.10	1.37	0.30	0.07	0.01	0.01	0.01	0.02	
80	0.59	0.57	0.54	0.51	0.48	0.48	0.58	1.04	2.01	1.56	0.13	0.00	0.01	0.02	0.02	0.03	0.03	
85	0.55	0.52	0.48	0.44	0.40	0.35	0.32	0.35	0.45	0.02	0.00	0.00	0.00	0.02	0.04	0.06	0.06	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.03	0.02	0.02	
95	0.01	0.02	0.02	0.02	0.03	0.04	0.07	0.10	0.06	0.09	0.10	0.09	0.09	0.09	0.09	0.07	0.08	
100	0.04	0.05	0.06	0.06	0.07	0.09	0.13	0.18	0.14	0.38	0.28	0.19	0.15	0.14	0.14	0.11	0.11	
105	0.08	0.10	0.10	0.11	0.12	0.15	0.22	0.31	0.26	0.56	0.79	0.40	0.25	0.20	0.19	0.15	0.15	
110	0.12	0.15	0.15	0.15	0.17	0.23	0.35	0.48	0.39	0.79	1.29	0.90	0.43	0.32	0.26	0.19	0.19	
115	0.16	0.19	0.21	0.21	0.24	0.33	0.52	0.59	0.51	1.14	1.53	1.67	0.84	0.48	0.39	0.28	0.28	
120	0.18	0.22	0.28	0.29	0.34	0.47	0.66	0.65	0.61	1.53	1.64	2.13	1.73	0.89	0.60	0.26	0.26	
125	0.35	0.24	0.30	0.38	0.47	0.65	0.78	0.69	0.71	1.53	1.62	2.28	2.54	1.95	0.81	0.59	0.44	
130	0.29	0.33	0.37	0.48	0.65	0.81	0.88	0.72	0.81	1.41	1.82	2.44	2.69	2.64	1.81	1.35	1.06	
135	0.43	0.39	0.51	0.56	0.75	0.95	0.95	0.77	0.91	1.39	2.32	2.27	2.65	2.33	1.51	0.52	2.25	
140	0.58	0.57	0.68	0.67	0.76	0.90	0.89	0.79	0.99	1.42	3.03	1.99	2.18	2.37	2.46	2.43	1.28	
145	0.77	0.74	0.69	0.77	0.68	0.82	0.73	0.65	0.84	1.15	1.79	1.94	2.04	2.38	2.53	2.55	2.84	
150	0.82	0.87	0.39	0.45	0.63	0.72	0.70	0.68	0.90	1.22	1.48	1.63	2.12	2.19	2.23	2.96	3.03	
155	0.38	0.39	0.58	0.45	0.52	0.64	0.69	0.69	0.93	1.26	1.41	1.72	0.68	2.04	2.33	2.72	2.80	
160	0.87	0.66	0.55	0.51	0.49	0.53	0.58	0.59	0.78	1.10	1.29	1.43	1.66	0.61	0.36	1.48	2.59	
165	0.33	0.42	0.45	0.51	0.58	0.60	0.57	0.55	0.63	0.95	1.19	1.34	1.51	1.67	1.91	1.49	0.66	
170	0.51	0.50	0.48	0.52	0.53	0.55	0.56	0.60	0.71	0.98	1.13	1.33	1.32	1.47	1.51	1.55	1.57	
175	0.15	0.12	0.12	0.14	0.21	0.26	0.33	0.42	0.54	0.67	0.70	0.70	0.77	0.92	1.08	1.05	1.31	
180	0.04	0.18	0.25	0.29	0.31	0.32	0.30	0.29	0.26	0.21	0.16	0.13	0.12	0.12	0.13	0.11	0.07	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:2.505m [K=1.0000]
Remarks: Stability time:1800 s