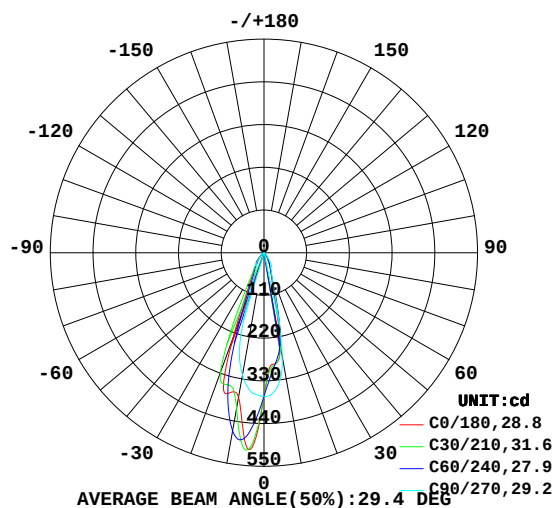


LUMINAIRE PHOTOMETRIC TEST REPORT

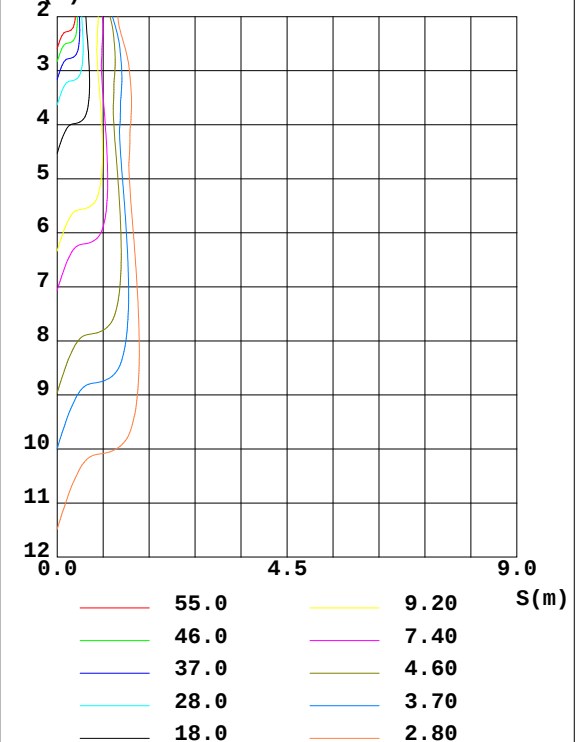
Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.33 lm/W			
MODEL	ASD-EXL-2SL-RW	I _{max} (cd)	510.6	S/MH(C0/180)	0.60
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	3.8	TOTAL FLUX(lm)	149.15	η UP, DN(C0-180)	0.1, 42.0
NOMINAL FLUX(lm)	149.151	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 57.8
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	3.8	η down(%)	99.8	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

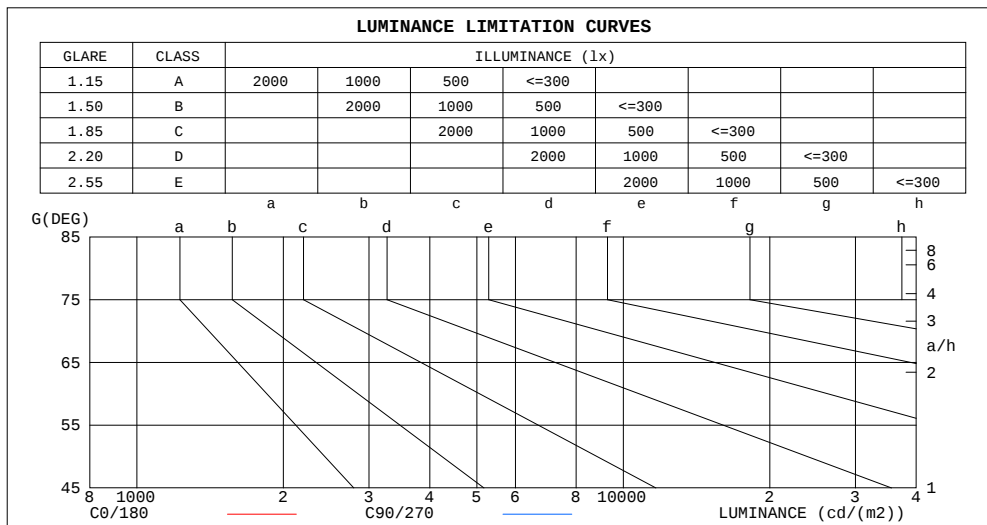
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	234.4	247.7	270.3	374.3	378.7	445.7	319.9	272.5	0- 10	34.29	34.29	23,23
20	52.94	52.01	57.70	123.6	231.9	260.6	99.26	77.88	10- 20	58.86	93.14	62.4,62.4
30	18.34	20.85	38.33	36.89	54.40	50.90	38.82	25.99	20- 30	28.51	121.7	81.6,81.6
40	6.150	5.506	13.11	16.13	20.91	24.59	22.34	8.315	30- 40	15.15	136.8	91.7,91.7
50	2.108	2.516	3.917	3.634	5.057	7.169	8.332	2.736	40- 50	6.653	143.5	96.2,96.2
60	1.344	1.517	1.863	1.954	2.085	2.404	2.658	1.736	50- 60	2.550	146.0	97.9,97.9
70	0.7443	0.8541	1.182	1.162	1.240	1.478	1.613	1.032	60- 70	1.513	147.5	98.9,98.9
80	0.3146	0.3892	0.5296	0.5468	0.5861	0.7581	0.8523	0.4974	70- 80	0.8980	148.4	99.5,99.5
90	0.0408	0.1183	0.1825	0.1864	0.1918	0.3077	0.2859	0.1484	80- 90	0.3867	148.8	99.8,99.8
100	0.0226	0.0435	0.0899	0.0741	0.0618	0.1203	0.1606	0.0650	90-100	0.1333	148.9	99.9,99.9
110	0.0101	0.0112	0.0390	0.0251	0.0384	0.0415	0.0586	0.0262	100-110	0.0513	149.0	99.9,99.9
120	0.0061	0.0054	0.0195	0.0130	0.0204	0.0190	0.0325	0.0111	110-120	0.0217	149.0	99.9,99.9
130	0.0138	0.0125	0.0189	0.0069	0.0148	0.0140	0.0262	0.0157	120-130	0.0123	149.0	99.9,99.9
140	0.0322	0.0348	0.0288	0.0148	0.0278	0.0301	0.0478	0.0558	130-140	0.0187	149.0	99.9,99.9
150	0.0622	0.0674	0.0599	0.0444	0.0614	0.0684	0.0872	0.1071	140-150	0.0322	149.1	99.9,99.9
160	0.0789	0.0849	0.0906	0.0775	0.1014	0.1084	0.1219	0.1283	150-160	0.0398	149.1	100,100
170	0.0806	0.0875	0.0957	0.0933	0.1443	0.1379	0.1343	0.1206	160-170	0.0303	149.1	100,100
180	0.1297	0.1205	0.1156	0.1024	0.1314	0.1232	0.1185	0.1058	170-180	0.0105	149.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



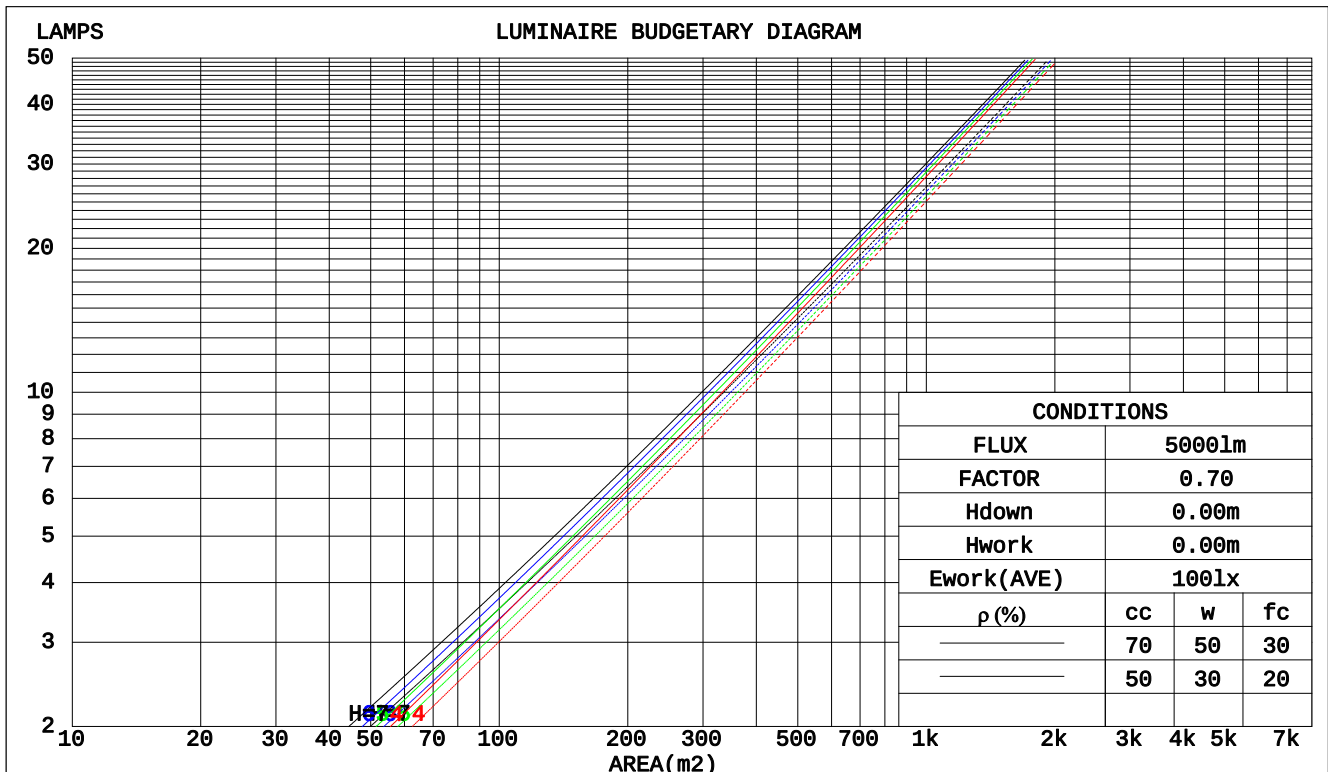
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.99	.97	.99	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.94	.89	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.85	.80	.76	.84	.79	.76	.83	.78	.75	.81	.77	.75	.80	.77	.74	.73
7.0	.81	.76	.72	.80	.76	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
9.0	.75	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.72	.68	.65	.64
10.0	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:1.900m [K=1.3161]
 Remarks:

WEC AND CCEC

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm					
NAME: ASD-EXL-2SL-RW			TYPE:		WEIGHT:
SPEC.:4000K			DIM.:		SERIAL No.:s25050020b-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	.165	.094	.030	.158	.090	.029	.146	.084	.027	.134	.077	.025	.123	.072	.023	
2.0	.155	.085	.026	.149	.082	.025	.139	.077	.024	.129	.072	.023	.120	.068	.021	
3.0	.145	.077	.023	.141	.075	.023	.132	.071	.022	.123	.068	.021	.116	.064	.020	
4.0	.137	.071	.021	.133	.069	.021	.125	.066	.020	.118	.063	.019	.111	.060	.018	
5.0	.129	.066	.019	.126	.065	.019	.119	.062	.018	.113	.060	.018	.107	.057	.017	
6.0	.122	.061	.018	.119	.060	.017	.114	.058	.017	.108	.056	.017	.103	.054	.016	
7.0	.116	.057	.016	.114	.057	.016	.108	.055	.016	.104	.053	.015	.099	.052	.015	
8.0	.111	.054	.015	.108	.053	.015	.104	.052	.015	.100	.050	.015	.096	.049	.014	
9.0	.106	.051	.014	.104	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.014	
10.0	.101	.048	.013	.099	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.013	

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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.172	.159	.148	.147	.137	.127	.101	.094	.088	.058	.054	.051	.019	.018	.017	
2.0	.156	.134	.116	.133	.116	.101	.091	.080	.070	.053	.047	.041	.017	.015	.013	
3.0	.142	.115	.094	.122	.099	.081	.084	.069	.057	.048	.040	.034	.016	.013	.011	
4.0	.131	.100	.077	.112	.087	.067	.077	.060	.047	.045	.035	.028	.014	.012	.009	
5.0	.121	.088	.064	.104	.076	.056	.072	.053	.039	.042	.031	.023	.013	.010	.008	
6.0	.113	.079	.054	.097	.068	.047	.067	.048	.033	.039	.028	.020	.013	.009	.007	
7.0	.106	.071	.046	.091	.061	.040	.063	.043	.029	.037	.025	.017	.012	.008	.006	
8.0	.100	.064	.040	.086	.056	.035	.059	.039	.025	.035	.023	.015	.011	.008	.005	
9.0	.094	.059	.035	.081	.051	.031	.056	.036	.022	.033	.021	.013	.011	.007	.004	
10.0	.090	.054	.031	.077	.047	.027	.054	.033	.019	.031	.020	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm										
NAME: ASD-EXL-2SL-RW					TYPE:			WEIGHT:		
SPEC.:4000K					DIM.:			SERIAL No.:s25050020b-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	-6.3	-5.4	-6.0	-5.3	-5.1	-2.7	-1.8	-2.4	-1.7	-1.5
3H	-5.7	-4.9	-5.4	-4.7	-4.5	-2.2	-1.5	-2.0	-1.3	-1.1
4H	-5.4	-4.7	-5.1	-4.4	-4.2	-2.0	-1.3	-1.7	-1.1	-0.8
6H	-5.2	-4.5	-4.9	-4.2	-4.0	-1.8	-1.1	-1.5	-0.9	-0.6
8H	-5.1	-4.5	-4.8	-4.2	-3.9	-1.7	-1.1	-1.4	-0.8	-0.6
12H	-5.1	-4.4	-4.7	-4.2	-3.9	-1.7	-1.0	-1.3	-0.8	-0.5
4H 2H	-6.0	-5.3	-5.7	-5.0	-4.8	-2.7	-2.0	-2.4	-1.8	-1.5
3H	-5.2	-4.5	-4.9	-4.3	-4.0	-2.1	-1.5	-1.8	-1.2	-1.0
4H	-4.8	-4.2	-4.4	-3.9	-3.6	-1.8	-1.2	-1.5	-0.9	-0.6
6H	-4.4	-3.9	-4.1	-3.6	-3.3	-1.5	-1.0	-1.1	-0.7	-0.3
8H	-4.4	-3.9	-4.0	-3.5	-3.2	-1.4	-0.9	-1.0	-0.5	-0.2
12H	-4.3	-3.8	-3.9	-3.5	-3.1	-1.3	-0.8	-0.9	-0.5	-0.1
8H 4H	-4.6	-4.1	-4.2	-3.8	-3.4	-1.8	-1.3	-1.4	-1.0	-0.6
6H	-4.2	-3.8	-3.7	-3.4	-2.9	-1.4	-1.0	-1.0	-0.6	-0.2
8H	-4.0	-3.6	-3.5	-3.2	-2.8	-1.2	-0.9	-0.8	-0.5	-0.0
12H	-3.9	-3.6	-3.4	-3.1	-2.6	-1.1	-0.8	-0.6	-0.3	0.1
12H 4H	-4.6	-4.2	-4.2	-3.8	-3.4	-1.9	-1.4	-1.4	-1.0	-0.7
6H	-4.1	-3.8	-3.7	-3.3	-2.9	-1.4	-1.1	-1.0	-0.7	-0.2
8H	-3.9	-3.6	-3.4	-3.2	-2.7	-1.2	-0.9	-0.8	-0.5	-0.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 1.1					+ 1.9 / - 1.6				
1.5H	+ 2.9 / - 0.9					+ 3.2 / - 1.9				
2.0H	+ 0.5 / - 0.5					+ 4.0 / - 1.1				

CIE Pub.117, 149.2 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -6.6$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

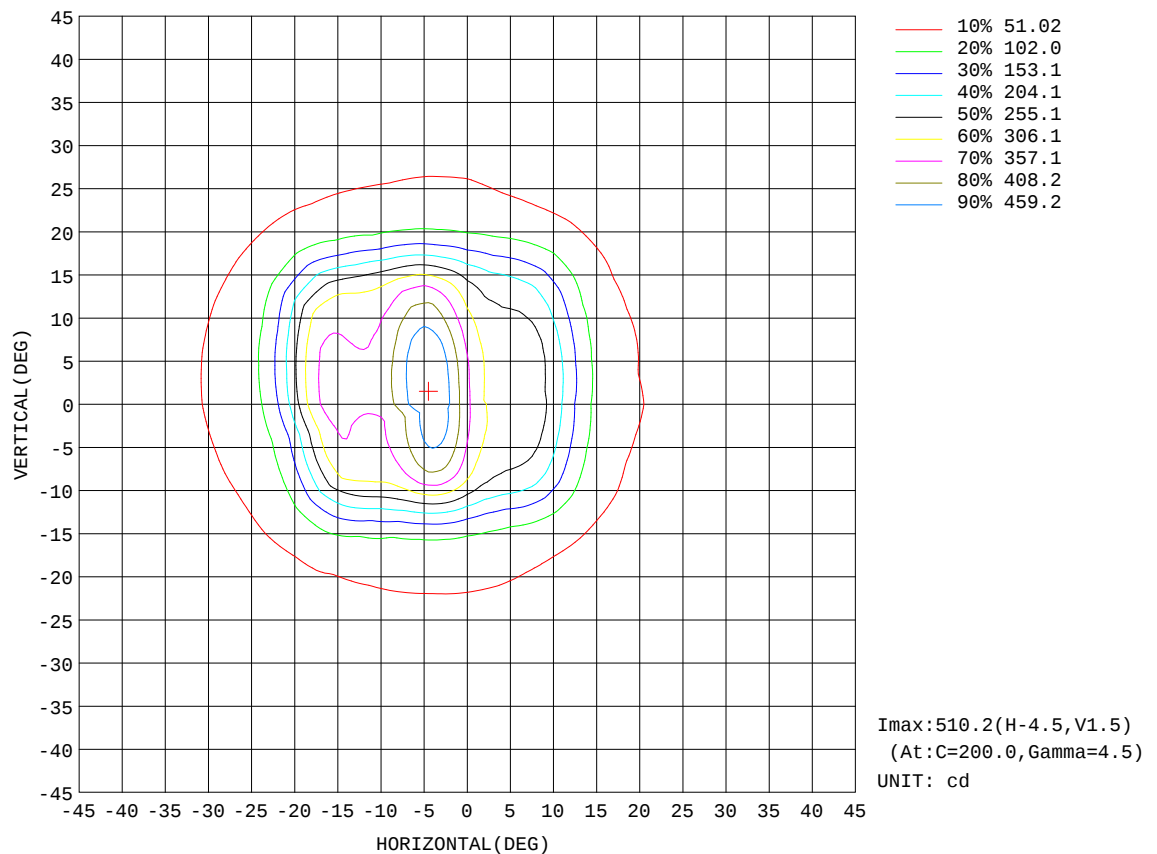
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	83	80
1.00	98	93	89	98	92	89	96	92	88	84
1.25	102	97	94	101	97	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
γ Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

ISOCANDELA DIAGRAM

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

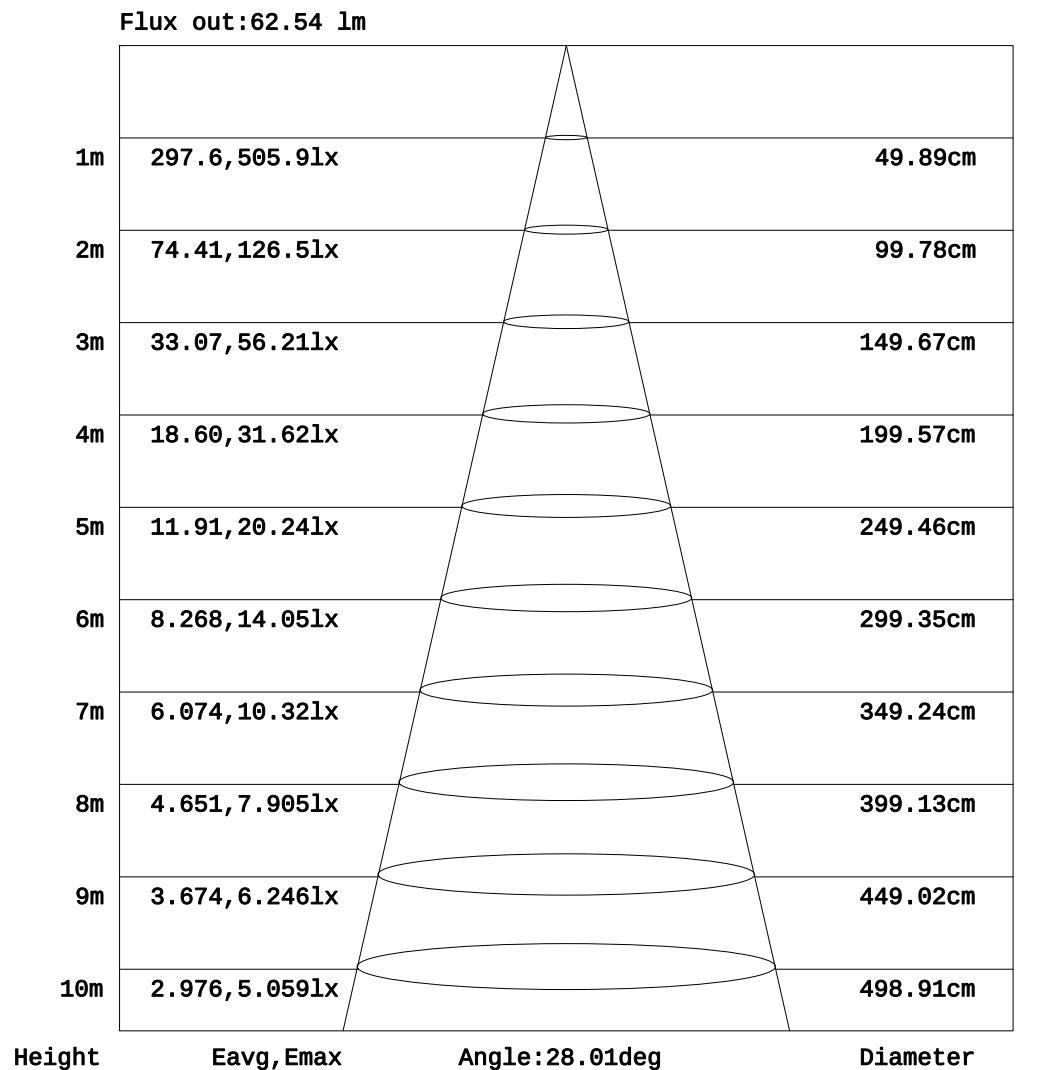


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

AAI Figure

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.15lx1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



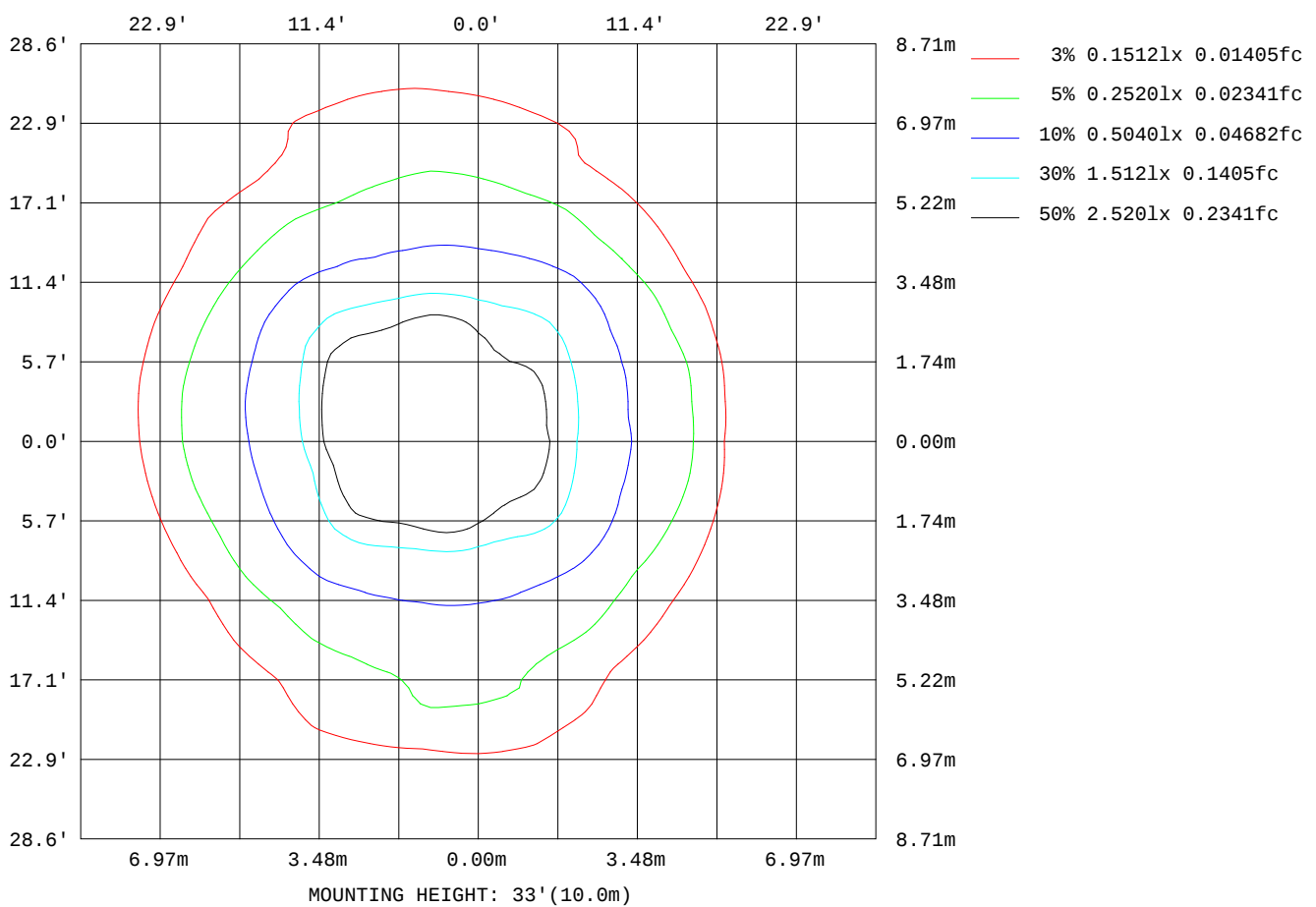
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

ISOLUX DIAGRAM

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

LED Avg.L Report

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

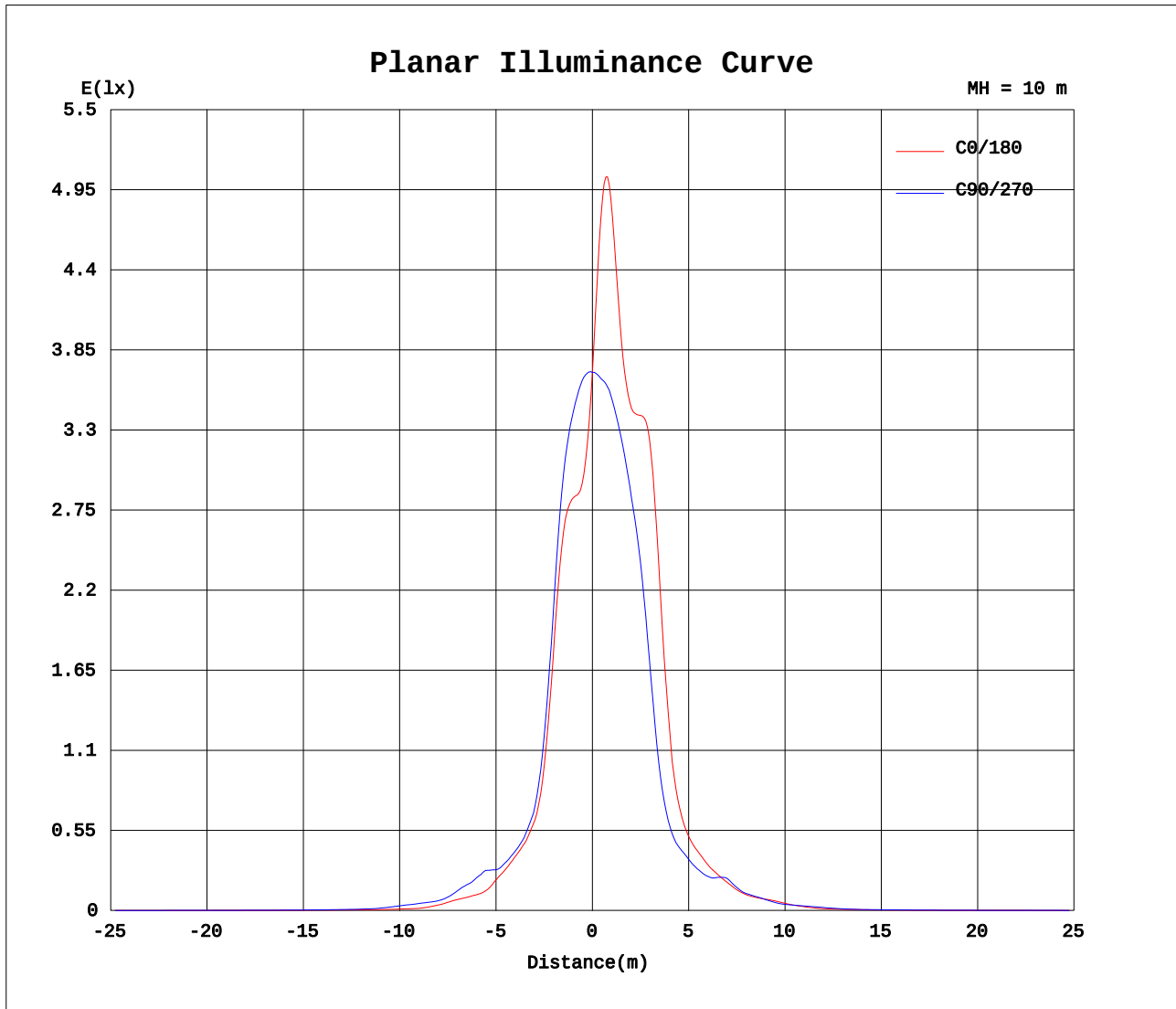
AvgL	cd/m2
L_0~180(65)av	33
L_0~180(75)av	29
L_0~180(85)av	34
L_90~270(65)av	44
L_90~270(75)av	43
L_90~270(85)av	51
L_45(65)av	38
L_45(75)av	33
L_45(85)av	40

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 1.900m [K=1.3161]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm		
NAME: ASD-EXL-2SL-RW	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:s25050020b-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	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369
5	288	290	292	291	291	291	295	306	325	353	389	424	452	471	481	482	479	474	504
10	234	234	237	245	249	246	239	235	242	270	315	357	381	379	369	362	358	354	379
15	89.5	91.7	96.7	110	126	129	117	103	101	107	123	143	174	224	287	333	354	361	376
20	52.9	50.4	49.1	51.3	51.5	52.5	52.1	53.3	55.8	57.7	60.6	64.8	73.7	95.8	151	197	197	192	232
25	34.7	34.2	32.7	31.2	30.8	32.8	36.0	37.6	40.4	41.5	42.6	44.9	47.1	50.9	63.1	71.9	74.7	76.9	85.1
30	18.3	17.6	18.3	19.5	20.0	21.7	23.5	30.1	34.3	38.3	40.5	36.7	34.3	36.8	37.0	40.9	44.4	49.0	54.4
35	13.8	12.6	10.9	9.83	11.7	11.7	17.3	20.4	24.1	24.7	24.6	28.1	31.8	24.9	26.3	25.6	28.3	31.8	35.1
40	6.15	6.17	5.87	5.93	4.60	6.41	9.95	10.3	11.5	13.1	13.9	16.0	17.0	17.1	15.1	14.2	16.1	18.5	20.9
45	2.99	3.07	2.92	3.28	2.86	3.58	4.78	5.75	8.11	9.23	10.2	9.54	8.48	7.84	6.15	8.07	10.2	11.2	14.1
50	2.11	2.13	2.18	2.25	2.28	2.75	2.59	3.25	3.59	3.92	4.61	4.67	4.37	4.02	3.25	4.50	4.52	4.37	5.06
55	1.72	1.72	1.76	1.81	1.89	1.92	2.02	2.21	2.45	2.52	2.68	2.66	2.44	2.53	2.51	2.57	2.53	2.57	2.85
60	1.34	1.36	1.41	1.45	1.50	1.54	1.61	1.76	1.83	1.86	1.94	1.99	1.93	1.95	1.96	1.96	1.94	1.94	2.09
65	1.00	1.02	1.06	1.12	1.14	1.20	1.28	1.41	1.47	1.49	1.57	1.59	1.53	1.51	1.54	1.53	1.49	1.51	1.63
70	0.74	0.76	0.79	0.80	0.83	0.88	0.97	1.08	1.16	1.18	1.22	1.22	1.17	1.15	1.17	1.15	1.13	1.14	1.24
75	0.53	0.53	0.57	0.57	0.61	0.63	0.68	0.75	0.80	0.85	0.87	0.88	0.84	0.82	0.84	0.85	0.83	0.81	0.88
80	0.31	0.33	0.34	0.35	0.38	0.40	0.43	0.47	0.52	0.53	0.56	0.55	0.54	0.54	0.55	0.57	0.57	0.54	0.59
85	0.15	0.16	0.17	0.18	0.18	0.20	0.22	0.23	0.27	0.29	0.31	0.31	0.32	0.33	0.34	0.36	0.37	0.37	0.41
90	0.04	0.08	0.10	0.10	0.12	0.12	0.14	0.16	0.18	0.18	0.17	0.16	0.17	0.18	0.19	0.20	0.22	0.20	0.19
95	0.03	0.06	0.07	0.07	0.07	0.08	0.09	0.10	0.13	0.16	0.15	0.14	0.12	0.12	0.12	0.10	0.09	0.09	0.10
100	0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.09	0.08	0.07	0.08	0.07	0.07	0.06	0.06	0.06	0.06
105	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.05	0.05	0.05
110	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.03	0.03	0.04
115	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
120	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
125	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
130	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
135	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02
140	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.03
145	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.04
150	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.06
155	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.08
160	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.07	0.10
165	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.12
170	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.14
175	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.14
180	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.13

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:3.8000V I:0.5210A P:1.9800W PF:0.0000 Freq:0Hz Lamp Flux:149.151x1 lm																	
NAME: ASD-EXL-2SL-RW									TYPE:						WEIGHT:		
SPEC.:4000K									DIM.:						SERIAL No.:s25050020b-01		
MFR.: ASD Lighting Corp									SUR.:						Shielding Angle:		

Table--2

UNIT: cd

C (DEG) γ (DEG)																		
	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	
0	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	
5	507	510	510	505	492	469	435	397	362	332	311	295	286	281	277	275	274	
10	387	395	407	432	459	466	439	378	320	283	270	272	275	270	261	250	240	
15	376	368	353	342	343	359	345	292	239	215	217	218	198	165	132	109	96.7	
20	263	298	328	294	227	174	140	114	99.3	96.1	101	105	88.6	67.2	59.2	54.8	51.3	
25	95.3	110	142	131	87.9	66.2	60.4	57.7	54.8	50.1	47.4	45.6	41.8	40.4	38.4	37.8	35.3	
30	57.0	57.6	58.1	53.9	47.9	44.3	42.3	42.2	38.8	35.2	33.1	30.3	27.4	24.6	23.3	20.5	18.7	
35	37.7	35.8	36.2	36.4	34.8	31.0	38.4	44.8	40.2	31.9	26.0	19.3	17.4	13.9	12.4	12.7	13.3	
40	19.7	20.8	21.5	24.4	24.8	29.0	26.8	26.1	22.3	18.0	15.2	12.4	8.92	7.71	7.50	7.58	6.97	
45	13.8	11.5	11.9	12.5	16.1	16.3	13.3	13.5	12.2	10.7	8.34	7.01	4.16	3.95	3.74	3.43	3.15	
50	6.53	6.04	5.61	5.51	8.82	8.58	8.88	9.67	8.33	6.06	5.09	3.81	2.81	2.67	2.49	2.34	2.14	
55	3.36	3.12	3.16	3.20	4.05	4.80	4.34	4.22	3.85	3.36	3.07	2.40	2.23	2.07	1.94	1.83	1.75	
60	2.15	2.26	2.33	2.38	2.43	2.83	2.69	2.79	2.66	2.47	2.24	1.97	1.81	1.66	1.55	1.45	1.37	
65	1.67	1.74	1.80	1.90	1.91	2.00	2.03	2.06	2.04	1.92	1.73	1.55	1.43	1.34	1.21	1.10	1.05	
70	1.28	1.34	1.39	1.45	1.51	1.58	1.61	1.63	1.61	1.51	1.34	1.20	1.08	0.98	0.89	0.81	0.76	
75	0.92	0.96	1.03	1.05	1.10	1.20	1.23	1.25	1.23	1.15	1.01	0.88	0.77	0.69	0.64	0.60	0.56	
80	0.62	0.68	0.71	0.74	0.78	0.85	0.89	0.88	0.85	0.79	0.70	0.60	0.53	0.46	0.41	0.38	0.34	
85	0.44	0.46	0.48	0.48	0.51	0.54	0.57	0.57	0.54	0.50	0.44	0.36	0.31	0.26	0.21	0.18	0.16	
90	0.25	0.29	0.30	0.31	0.31	0.30	0.31	0.30	0.29	0.25	0.21	0.18	0.16	0.14	0.12	0.10	0.08	
95	0.14	0.15	0.16	0.16	0.16	0.16	0.17	0.19	0.22	0.19	0.18	0.12	0.11	0.11	0.08	0.07	0.05	
100	0.07	0.08	0.11	0.12	0.12	0.13	0.16	0.14	0.16	0.14	0.09	0.08	0.07	0.06	0.05	0.03	0.02	
105	0.05	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.09	0.07	0.06	0.05	0.04	0.04	0.02	0.02	0.02	
110	0.04	0.04	0.03	0.04	0.04	0.05	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01	
115	0.03	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
120	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	
125	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	
130	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
135	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.04	
140	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	
145	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.10	
150	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.12	
155	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	
160	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.12	0.12	
165	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	
170	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.11	
175	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.09	
180	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:1.900m [K=1.3161]
Remarks: