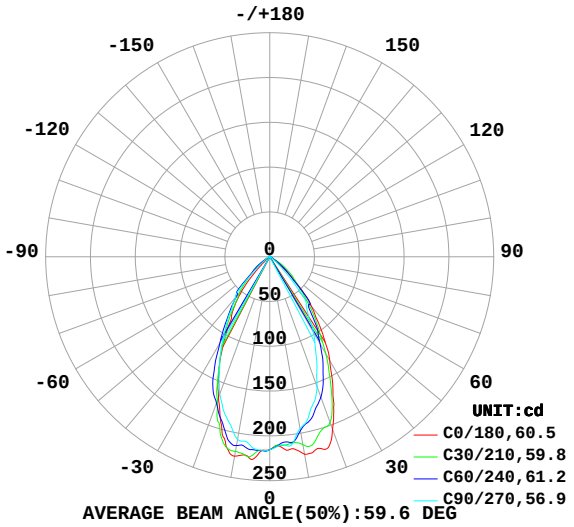
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

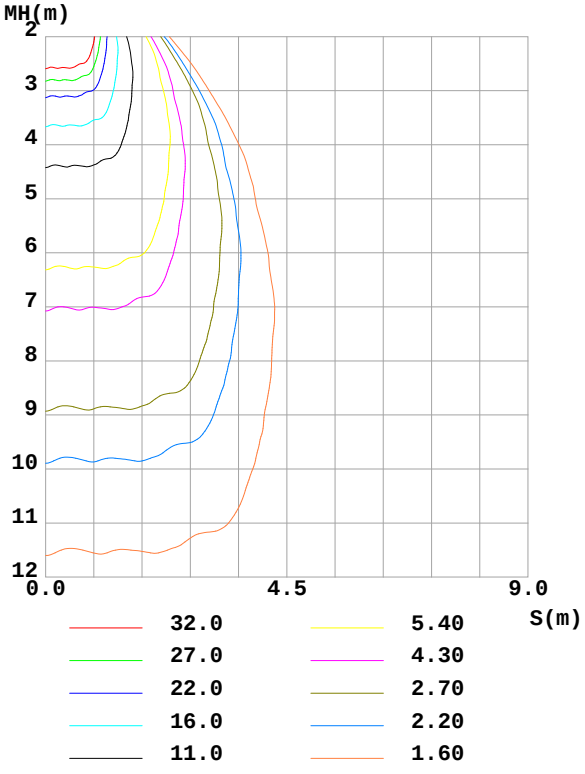
DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.87 lm/W			
MODEL	ASD-ERH-2SL-W	Imax(cd)	227.5	S/MH(C0/180)	0.86
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.88
RATED VOLTAGE(V)	3.58	TOTAL FLUX(lm)	238.41	η UP,DN(C0-180)	0.2,48.6
NOMINAL FLUX(lm)	238.414	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,50.9
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	3.58	η down(%)	99.6	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):59.6 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

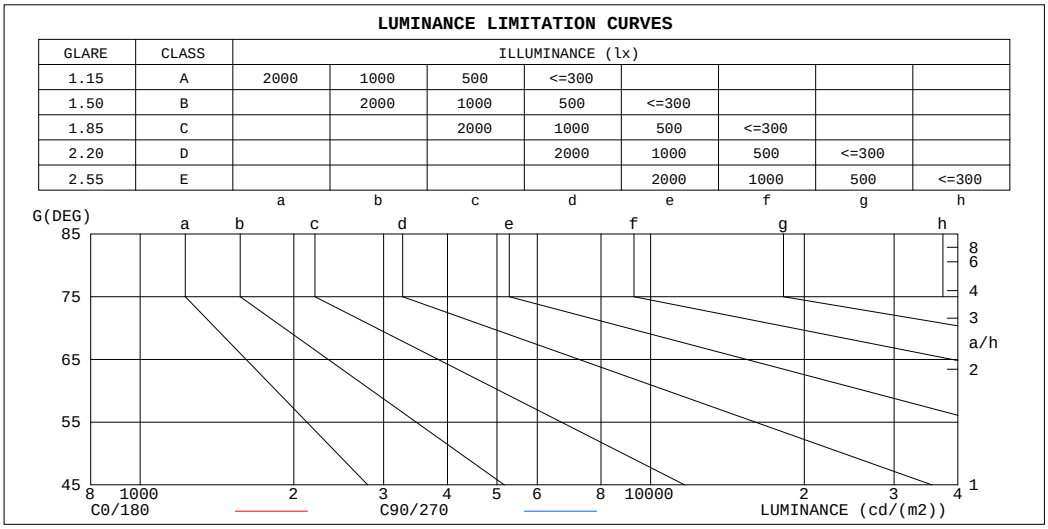
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	223.9	206.2	194.9	214.2	226.0	214.3	207.1	212.6	0- 10	20.45	20.45	8.58,8.58
20	205.0	180.4	154.8	167.6	167.5	179.1	163.1	191.9	10- 20	55.72	76.16	31.9,31.9
30	134.1	124.0	97.89	96.03	96.39	105.6	103.6	127.5	20- 30	65.90	142.1	59.6,59.6
40	73.03	60.46	59.46	46.60	45.71	50.91	59.27	66.75	30- 40	51.50	193.6	81.2,81.2
50	19.07	28.77	11.49	21.80	4.888	25.15	15.92	32.48	40- 50	29.50	223.1	93.6,93.6
60	2.676	8.306	3.423	3.691	1.695	5.769	3.957	9.695	50- 60	9.431	232.5	97.5,97.5
70	1.490	2.191	2.187	1.388	1.047	1.814	2.435	1.969	60- 70	2.666	235.2	98.6,98.6
80	0.9641	1.098	1.327	0.7283	0.5251	0.8779	1.564	1.031	70- 80	1.466	236.6	99.3,99.3
90	0.3809	0.5277	0.5301	0.3606	0.2249	0.4060	0.5963	0.5020	80- 90	0.7504	237.4	99.6,99.6
100	0.2365	0.2513	0.2158	0.1772	0.1725	0.1661	0.2607	0.2722	90-100	0.3485	237.7	99.7,99.7
110	0.1958	0.1556	0.1114	0.1283	0.0914	0.1181	0.1316	0.1772	100-110	0.1802	237.9	99.8,99.8
120	0.0862	0.1416	0.1019	0.1009	0.0734	0.1258	0.1197	0.1754	110-120	0.1216	238.0	99.8,99.8
130	0.0668	0.0908	0.1096	0.0508	0.0652	0.1372	0.1380	0.1509	120-130	0.0959	238.1	99.9,99.9
140	0.0742	0.0898	0.1292	0.0795	0.0664	0.1325	0.1578	0.1465	130-140	0.0819	238.2	99.9,99.9
150	0.1230	0.1121	0.1333	0.1241	0.0907	0.1464	0.1835	0.1551	140-150	0.0780	238.3	99.9,99.9
160	0.1477	0.1356	0.1407	0.1413	0.1169	0.1661	0.2021	0.1653	150-160	0.0671	238.4	100,100
170	0.1690	0.1673	0.1613	0.1533	0.1356	0.1775	0.1934	0.1920	160-170	0.0458	238.4	100,100
180	0.1415	0.1380	0.1370	0.1376	0.1402	0.1342	0.1363	0.1359	170-180	0.0162	238.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

LUMINANCE LIMITATION CURVES

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	73	93
80	56	76
75	48	71
70	44	64
65	45	62
60	54	68
55	94	96
50	297	179
45	630	380

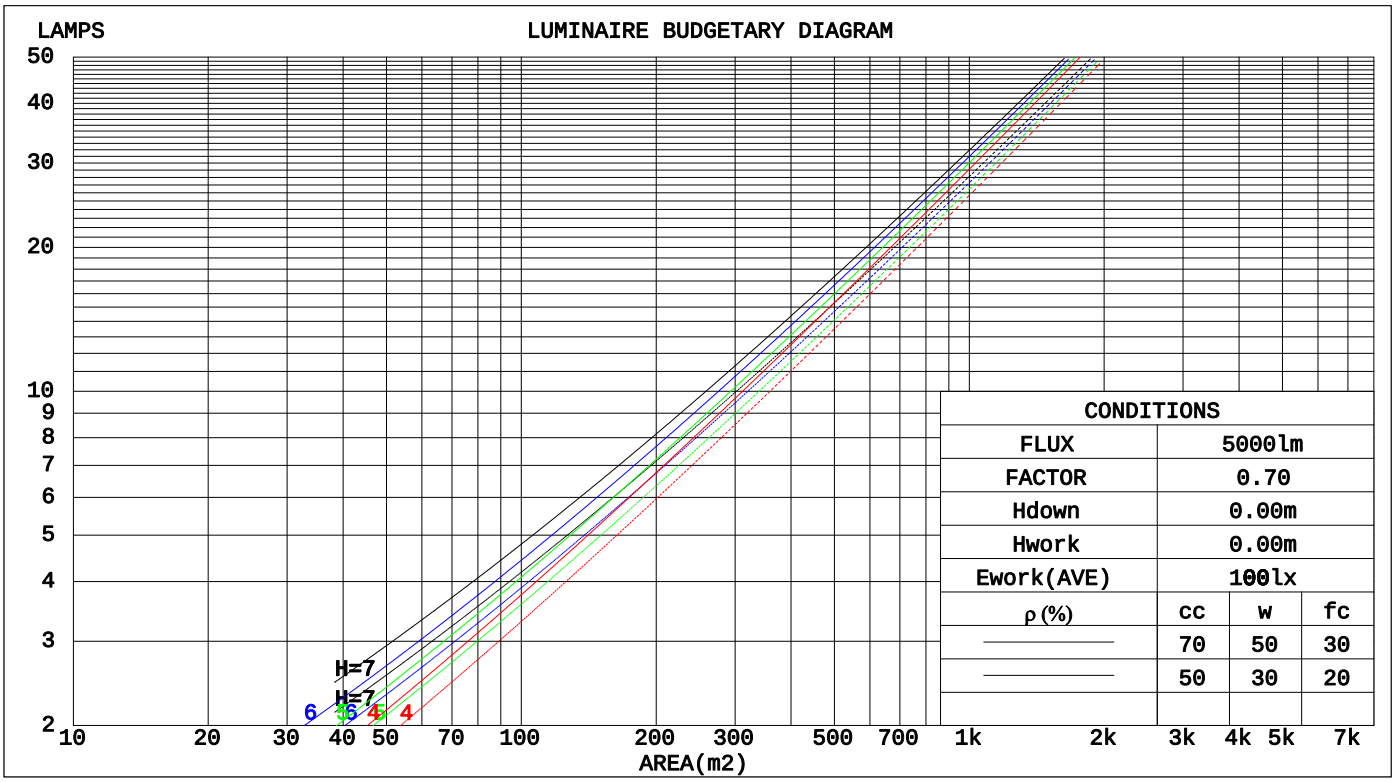
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:
Test Date:
Stability time:0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding 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			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	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.01	.96	.93	.99	.95	.91	.96	.92	.89	.93	.90	.87	.90	.88	.86	.84
3.0	.93	.87	.83	.92	.86	.82	.89	.85	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.80	.75	.85	.79	.75	.83	.78	.74	.80	.76	.73	.78	.75	.72	.70
5.0	.80	.73	.69	.79	.73	.68	.77	.72	.68	.75	.70	.67	.73	.69	.66	.65
6.0	.74	.68	.63	.73	.67	.63	.72	.66	.62	.70	.65	.62	.69	.65	.61	.60
7.0	.69	.63	.58	.68	.62	.58	.67	.62	.57	.66	.61	.57	.65	.60	.57	.55
8.0	.65	.58	.54	.64	.58	.54	.63	.57	.53	.62	.57	.53	.61	.56	.53	.51
9.0	.61	.54	.50	.60	.54	.50	.59	.54	.50	.58	.53	.49	.57	.53	.49	.48
10.0	.57	.51	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.54	.49	.46	.45



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

WEC AND CCEC

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding 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 Coeffcients(WEC)									
0.0																
1.0	.199	.113	.036	.192	.109	.035	.179	.103	.033	.167	.096	.031	.156	.090	.029	
2.0	.191	.105	.032	.185	.102	.031	.174	.097	.030	.164	.092	.029	.154	.087	.028	
3.0	.182	.097	.029	.177	.095	.028	.167	.091	.028	.158	.087	.027	.150	.083	.026	
4.0	.173	.090	.026	.168	.088	.026	.160	.085	.025	.152	.082	.025	.145	.079	.024	
5.0	.164	.084	.024	.160	.082	.024	.153	.080	.023	.146	.077	.023	.140	.075	.022	
6.0	.156	.078	.022	.153	.077	.022	.146	.075	.022	.140	.073	.021	.135	.071	.021	
7.0	.149	.074	.021	.146	.073	.021	.140	.071	.020	.135	.069	.020	.130	.067	.020	
8.0	.142	.069	.019	.139	.068	.019	.134	.067	.019	.129	.065	.019	.125	.064	.019	
9.0	.135	.065	.018	.133	.065	.018	.128	.063	.018	.124	.062	.018	.120	.061	.018	
10.0	.129	.062	.017	.127	.061	.017	.123	.060	.017	.119	.059	.017	.115	.058	.017	

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	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.176	.160	.146	.151	.138	.126	.103	.095	.087	.059	.055	.051	.019	.018	.016	
2.0	.162	.136	.114	.139	.117	.098	.095	.081	.068	.055	.047	.040	.018	.015	.013	
3.0	.151	.117	.090	.129	.101	.078	.089	.070	.055	.051	.041	.032	.016	.013	.011	
4.0	.141	.103	.073	.121	.089	.063	.083	.062	.045	.048	.036	.026	.016	.012	.009	
5.0	.133	.091	.060	.114	.079	.053	.079	.055	.037	.046	.032	.022	.015	.011	.007	
6.0	.126	.082	.051	.108	.071	.044	.075	.050	.031	.043	.029	.019	.014	.010	.006	
7.0	.120	.075	.043	.103	.065	.038	.071	.046	.027	.041	.027	.016	.013	.009	.005	
8.0	.114	.069	.038	.098	.060	.033	.068	.042	.023	.040	.025	.014	.013	.008	.005	
9.0	.109	.064	.033	.094	.055	.029	.065	.039	.021	.038	.023	.012	.012	.008	.004	
10.0	.104	.060	.030	.090	.052	.026	.062	.036	.018	.036	.021	.011	.012	.007	.004	

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

UGR(Unified Glare Rating) Table

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-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, 238.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -5.0)
Area: 0.1 m2

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

UTILIZATION FACTORS TABLE

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

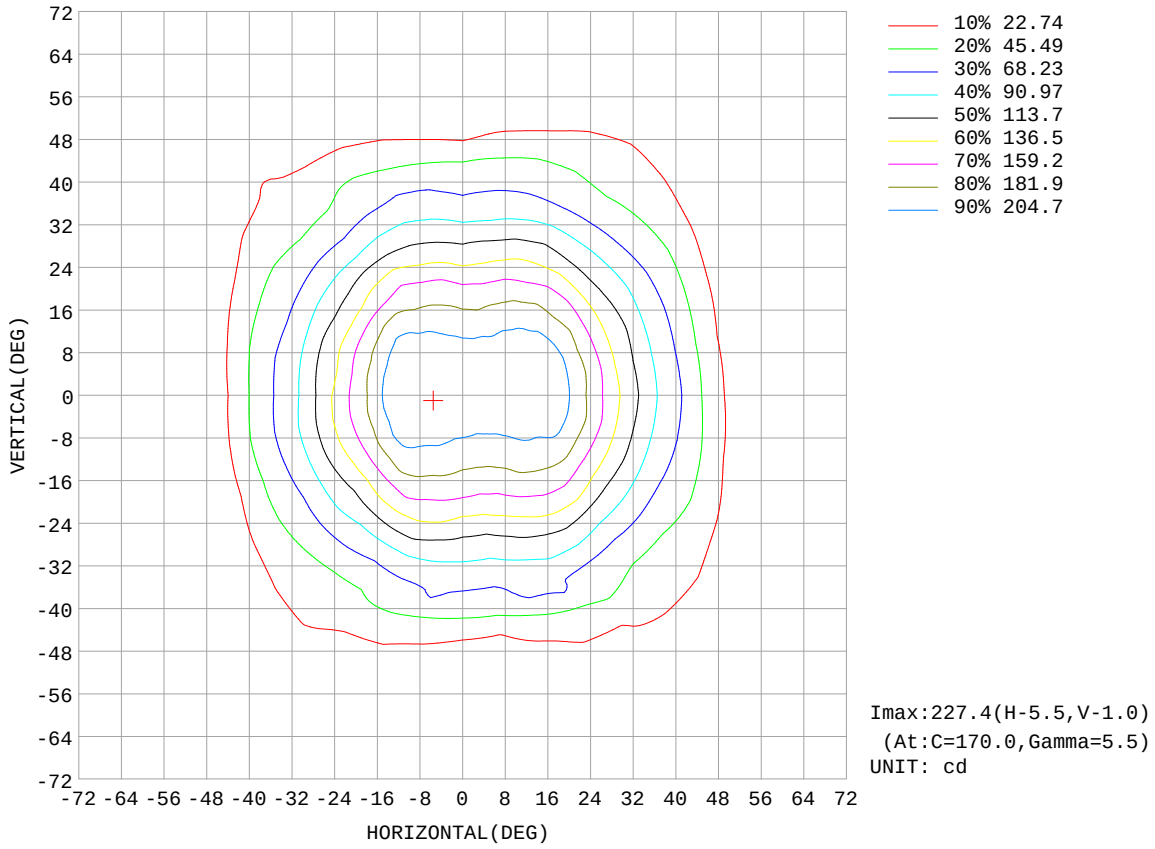
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	80	72	67	79	72	67	78	71	67	63
0.80	88	81	76	87	81	76	86	80	76	71
1.00	94	87	83	93	87	83	91	87	82	77
1.25	99	93	89	98	92	88	96	91	87	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	101	104	102	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	96
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: MEDIUM
Temperature:25.3℃
Operators:
Test Date:
Stability time:0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

ISOCANDELA DIAGRAM

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



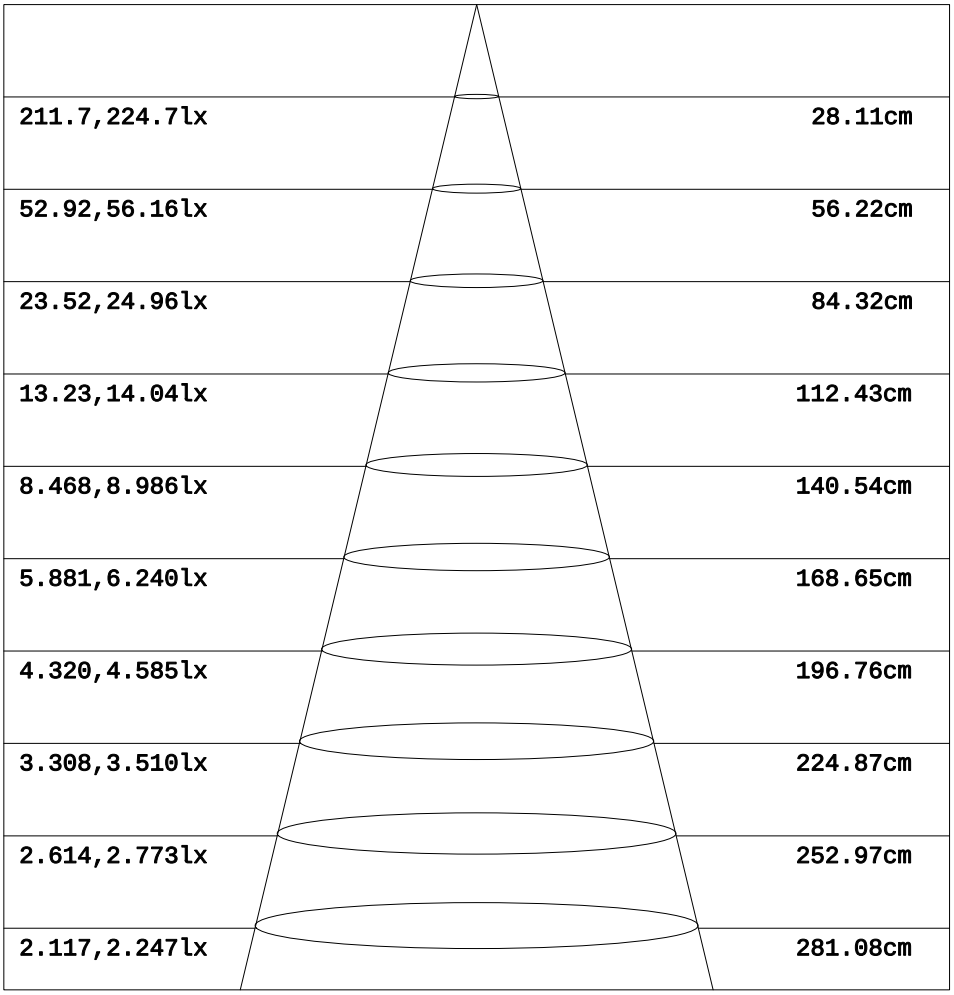
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:
Test Date:
Stability time:0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

AAI Figure

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:13.14 lm



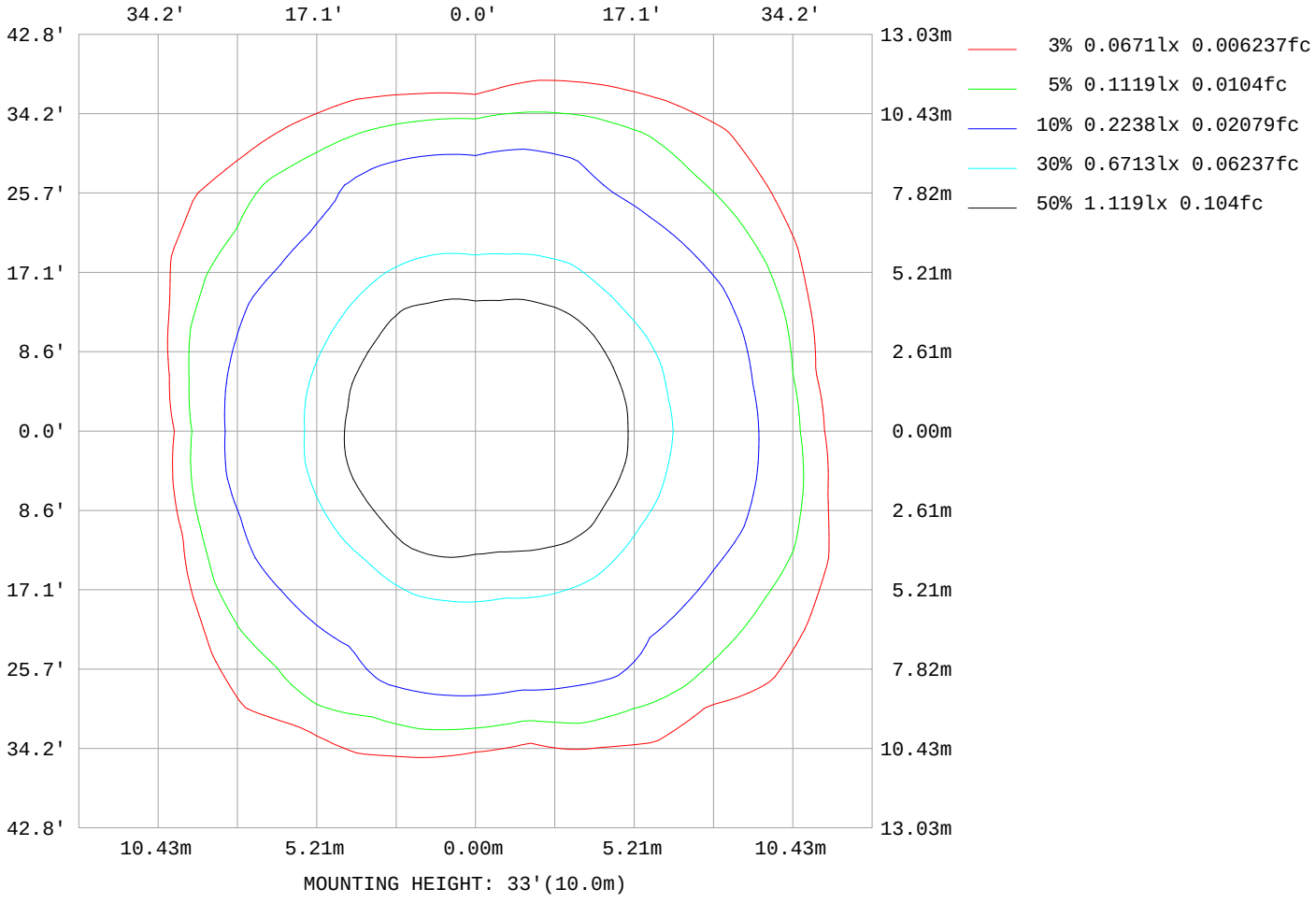
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

ISOLUX DIAGRAM

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

LED Avg.L Report

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

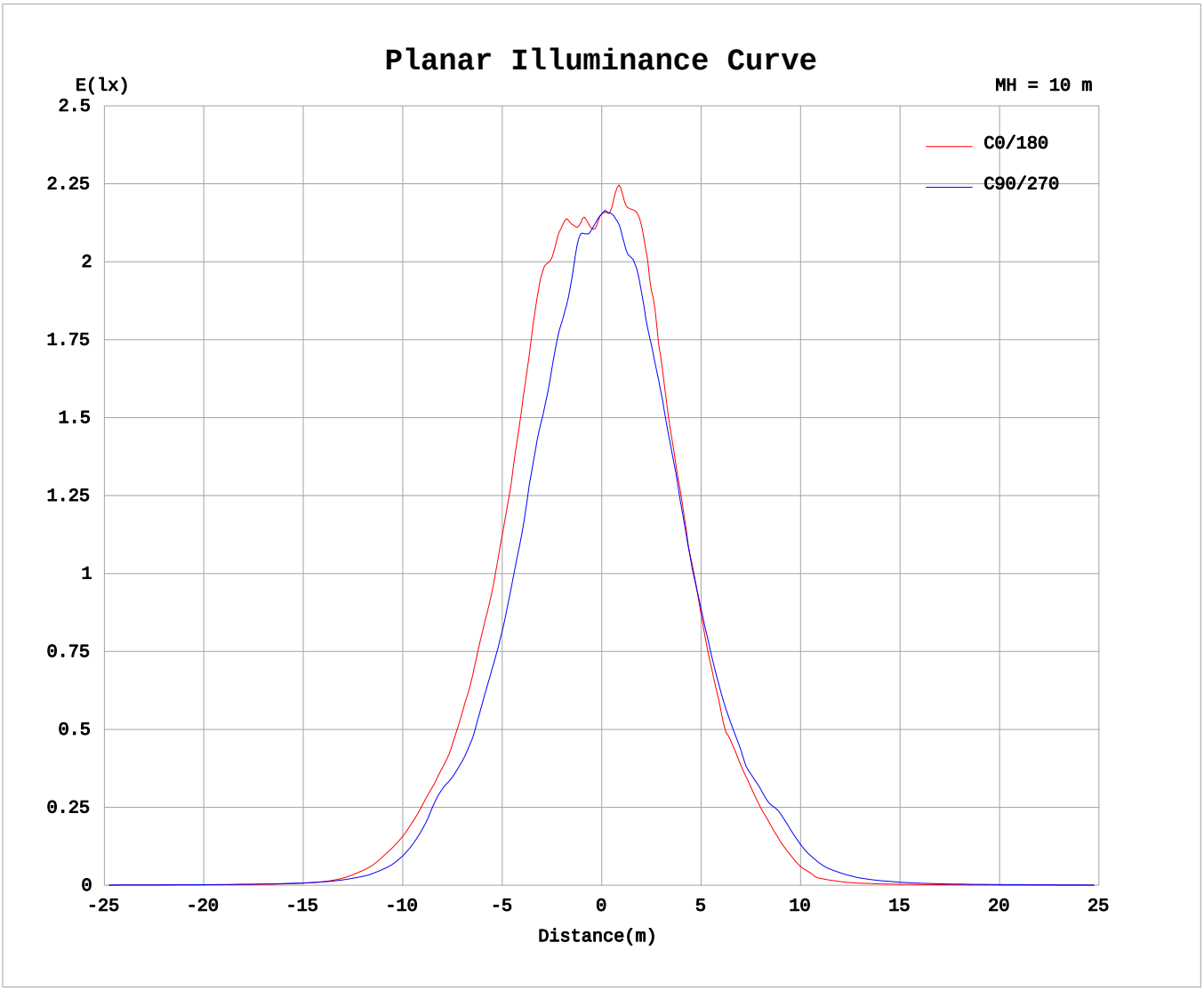
AvgL	cd/m2
L_0~180(65)av	39
L_0~180(75)av	40
L_0~180(85)av	54
L_90~270(65)av	65
L_90~270(75)av	73
L_90~270(85)av	104
L_45(65)av	71
L_45(75)av	50
L_45(85)av	73

Standard: GB/T 29293-2012

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

Planar Illuminance Curve



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
5	217	216	213	211	208	207	207	209	211	211	211	211	212	214	218	222	226	226	227
10	224	218	214	213	210	202	197	194	194	195	196	203	210	213	215	218	221	225	226
15	222	218	215	207	200	193	185	178	175	177	182	188	192	197	203	205	202	204	205
20	205	205	201	197	186	175	167	157	152	155	159	162	170	169	166	166	167	167	168
25	167	170	166	162	161	154	141	130	122	123	132	136	135	133	127	130	133	135	133
30	134	131	130	125	125	123	113	104	96.3	97.9	98.6	102	98.4	94.1	98.0	97.1	97.7	100	96.4
35	101	97.4	96.5	92.8	88.6	90.3	86.4	76.8	72.7	72.7	74.3	73.5	67.1	69.3	70.2	68.1	69.8	72.5	70.1
40	73.0	72.5	68.5	65.1	61.9	59.0	69.8	66.9	56.3	59.5	61.6	58.8	46.6	46.2	47.0	48.9	46.2	47.5	45.7
45	44.6	48.5	50.8	43.9	40.9	48.7	40.9	35.3	24.2	26.9	30.8	31.3	38.3	32.7	33.1	30.1	22.3	20.3	17.2
50	19.1	22.6	30.7	32.4	33.4	24.1	24.1	15.6	10.3	11.5	13.9	19.6	19.4	24.5	19.1	9.86	5.97	5.53	4.89
55	5.37	6.93	11.1	19.4	17.9	16.8	11.5	7.43	5.55	5.51	6.65	8.78	11.6	10.9	8.25	3.92	2.88	2.45	2.40
60	2.68	3.01	4.12	8.16	9.26	7.35	5.00	4.02	3.47	3.42	3.64	3.84	4.49	4.38	3.00	2.13	1.94	1.76	1.69
65	1.88	2.07	2.39	2.52	3.86	3.40	2.85	2.88	2.68	2.64	2.62	2.34	2.74	2.20	1.74	1.58	1.52	1.40	1.46
70	1.49	1.57	1.67	1.75	2.07	2.32	2.15	2.35	2.25	2.19	2.06	1.83	1.79	1.48	1.29	1.27	1.18	1.12	1.05
75	1.23	1.28	1.32	1.34	1.43	1.58	1.71	1.83	1.88	1.83	1.64	1.45	1.24	1.08	0.99	0.93	0.86	0.84	0.84
80	0.96	0.97	0.98	0.99	1.05	1.14	1.32	1.35	1.39	1.33	1.18	1.06	0.88	0.77	0.69	0.62	0.59	0.54	0.53
85	0.63	0.63	0.65	0.69	0.73	0.78	0.86	0.83	0.85	0.81	0.73	0.67	0.61	0.53	0.46	0.41	0.36	0.33	0.31
90	0.38	0.40	0.43	0.47	0.51	0.55	0.57	0.53	0.55	0.53	0.50	0.49	0.42	0.38	0.34	0.30	0.26	0.24	0.22
95	0.27	0.29	0.32	0.37	0.38	0.37	0.39	0.38	0.39	0.37	0.32	0.30	0.28	0.26	0.24	0.22	0.21	0.21	0.20
100	0.24	0.24	0.25	0.26	0.26	0.25	0.24	0.23	0.22	0.22	0.20	0.19	0.18	0.17	0.18	0.18	0.18	0.18	0.17
105	0.22	0.21	0.21	0.19	0.19	0.17	0.17	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.15	0.14	0.13	0.13	0.13
110	0.20	0.19	0.18	0.18	0.16	0.15	0.14	0.12	0.12	0.11	0.11	0.12	0.13	0.13	0.12	0.10	0.09	0.10	0.09
115	0.13	0.10	0.11	0.16	0.16	0.14	0.13	0.12	0.11	0.10	0.11	0.12	0.13	0.12	0.10	0.08	0.07	0.08	0.08
120	0.09	0.07	0.08	0.12	0.14	0.14	0.13	0.12	0.11	0.10	0.10	0.11	0.12	0.11	0.09	0.07	0.07	0.07	0.07
125	0.09	0.06	0.07	0.08	0.11	0.12	0.13	0.13	0.08	0.10	0.10	0.10	0.10	0.09	0.08	0.06	0.06	0.07	0.07
130	0.07	0.03	0.02	0.05	0.08	0.10	0.12	0.13	0.12	0.11	0.10	0.09	0.09	0.06	0.04	0.06	0.06	0.08	0.07
135	0.05	0.04	0.04	0.04	0.08	0.10	0.12	0.13	0.14	0.12	0.11	0.10	0.09	0.05	0.05	0.05	0.07	0.09	0.06
140	0.07	0.06	0.06	0.07	0.07	0.11	0.12	0.11	0.15	0.13	0.11	0.10	0.08	0.08	0.08	0.08	0.09	0.10	0.07
145	0.10	0.09	0.09	0.09	0.09	0.10	0.12	0.12	0.14	0.14	0.12	0.12	0.11	0.10	0.10	0.10	0.11	0.12	0.08
150	0.12	0.11	0.11	0.11	0.11	0.11	0.13	0.14	0.15	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.13	0.14	0.09
155	0.14	0.13	0.12	0.12	0.12	0.13	0.14	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.14	0.14	0.15	0.10
160	0.15	0.14	0.13	0.14	0.13	0.14	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.12
165	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.14
170	0.17	0.17	0.17	0.17	0.17	0.17	0.15	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.14
175	0.19	0.19	0.18	0.17	0.17	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.16	0.15	0.15	0.15	0.16	0.16	0.17
180	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:3.5800V I:0.5161A P:1.8500W PF:0.0000 Freq:0Hz Lamp Flux:238.414x1 lm		
NAME: ASD-ERH-2SL-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001f-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215		
5	225	223	222	220	218	216	216	216	214	213	212	213	213	215	215	215	216		
10	225	225	221	215	214	214	210	210	207	206	208	208	210	215	222	224	225		
15	205	206	209	210	205	198	193	190	186	187	189	199	208	214	214	220	224		
20	167	170	171	179	179	174	171	168	163	167	174	184	188	196	200	205	205		
25	130	133	133	135	146	150	141	138	132	137	147	154	163	166	169	167	171		
30	99.4	99.4	101	103	108	112	112	109	104	109	118	124	127	128	128	131	131		
35	70.6	69.6	72.3	74.6	73.9	81.4	85.9	82.3	78.8	83.5	89.3	94.3	93.1	95.3	98.8	98.4	97.7		
40	48.1	50.2	52.7	50.2	51.6	57.8	67.6	66.8	59.3	65.5	66.0	64.9	65.7	67.8	70.8	71.2	71.1		
45	22.6	31.0	33.9	34.7	39.1	44.1	40.7	38.7	37.1	45.0	52.4	47.5	45.0	47.4	49.8	46.4	43.2		
50	6.79	10.3	20.7	26.3	24.0	23.8	21.7	16.7	15.9	22.5	27.6	32.4	32.7	32.3	28.9	21.8	16.8		
55	2.69	3.89	8.61	13.7	14.8	13.7	9.27	7.50	7.32	9.49	14.2	19.1	21.5	18.6	10.2	6.78	5.20		
60	1.79	2.11	3.47	5.02	6.51	4.94	4.55	3.95	3.96	4.78	6.21	10.5	11.2	8.20	3.81	3.08	2.50		
65	1.45	1.57	1.85	2.48	3.10	2.76	2.89	2.81	2.84	3.07	3.28	3.85	3.96	2.92	2.16	1.89	1.81		
70	1.07	1.23	1.38	1.63	2.00	2.02	2.30	2.39	2.43	2.46	2.19	2.38	2.18	1.76	1.58	1.51	1.44		
75	0.83	0.94	1.01	1.14	1.35	1.57	1.76	1.93	1.93	1.90	1.72	1.66	1.46	1.33	1.30	1.28	1.21		
80	0.56	0.61	0.71	0.79	0.97	1.19	1.38	1.52	1.56	1.51	1.36	1.17	1.06	1.00	1.02	0.97	0.95		
85	0.33	0.39	0.46	0.52	0.64	0.77	0.86	0.96	1.00	1.00	0.94	0.82	0.74	0.71	0.67	0.66	0.61		
90	0.23	0.26	0.32	0.37	0.44	0.50	0.52	0.58	0.60	0.59	0.59	0.54	0.52	0.48	0.46	0.41	0.38		
95	0.19	0.20	0.23	0.24	0.28	0.33	0.37	0.43	0.44	0.44	0.43	0.39	0.37	0.36	0.32	0.29	0.28		
100	0.16	0.16	0.16	0.16	0.17	0.20	0.22	0.25	0.26	0.26	0.27	0.27	0.27	0.27	0.26	0.25	0.24		
105	0.14	0.14	0.13	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.20	0.21	0.22	0.22	0.22		
110	0.10	0.13	0.12	0.12	0.11	0.11	0.12	0.13	0.13	0.14	0.15	0.16	0.17	0.18	0.20	0.20	0.19		
115	0.09	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.12	0.13	0.15	0.17	0.18	0.18	0.13	0.12		
120	0.08	0.11	0.10	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.14	0.16	0.17	0.18	0.14	0.11	0.11		
125	0.08	0.11	0.08	0.13	0.13	0.13	0.13	0.12	0.13	0.14	0.15	0.17	0.17	0.16	0.12	0.10	0.10		
130	0.08	0.11	0.11	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.16	0.17	0.16	0.14	0.11	0.09	0.08		
135	0.09	0.11	0.12	0.13	0.15	0.15	0.15	0.15	0.15	0.16	0.17	0.18	0.16	0.14	0.12	0.09	0.07		
140	0.09	0.11	0.13	0.12	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.16	0.14	0.12	0.10	0.08		
145	0.10	0.12	0.13	0.12	0.15	0.16	0.16	0.17	0.17	0.17	0.18	0.17	0.16	0.14	0.12	0.11	0.08		
150	0.11	0.12	0.14	0.13	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.17	0.16	0.15	0.13	0.11	0.09		
155	0.11	0.13	0.14	0.15	0.16	0.18	0.18	0.19	0.20	0.20	0.20	0.18	0.16	0.15	0.14	0.12	0.11		
160	0.13	0.14	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.19	0.17	0.16	0.15	0.14	0.12		
165	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.21	0.19	0.18	0.17	0.16	0.15		
170	0.14	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.18	0.17	0.16	0.15		
175	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19		
180	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s