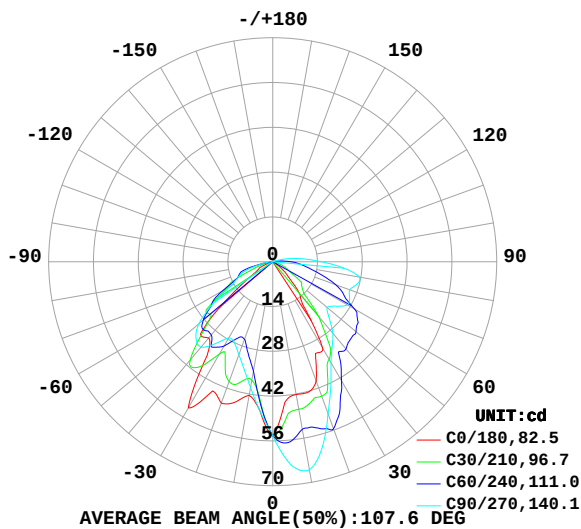


LUMINAIRE PHOTOMETRIC TEST REPORT

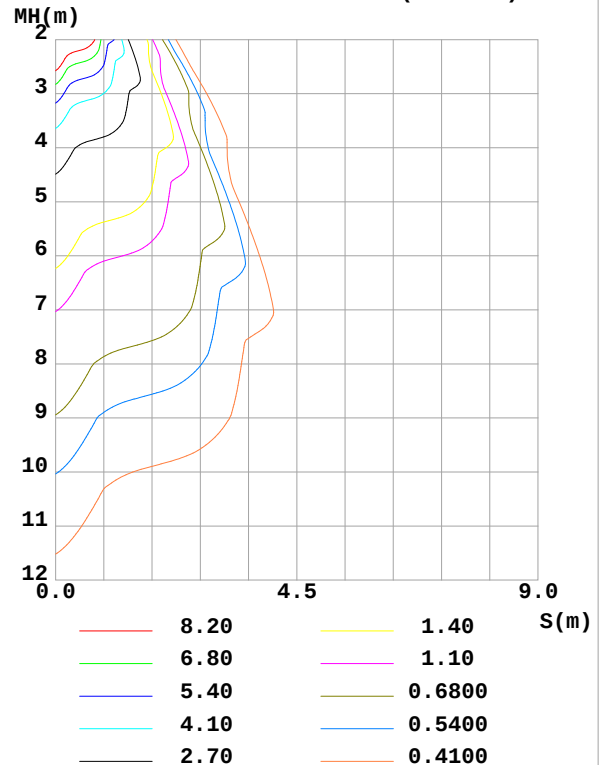
Test:U:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.58 lm/W			
MODEL	ASD-EML-LP2-W	I _{max} (cd)	66.13	S/MH(C0/180)	1.23
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.67
RATED VOLTAGE(V)	4.2	TOTAL FLUX(lm)	124.02	η UP, DN(C0-180)	2.1, 58.4
NOMINAL FLUX(lm)	124.018	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 39.1
LAMPS INSIDE	1	η up(%)	2.5	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	4.2	η down(%)	97.5	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: MEDIUM
Temperature: 25.3°C
Operators:
Test Date:
Stability time: 0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-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	42.16	49.64	66.01	56.60	42.44	35.62	39.97	37.21	0- 10	4.605	4.605	3.71,3.71
20	39.75	46.67	50.57	58.15	47.02	33.08	30.98	35.91	10- 20	12.62	17.23	13.9,13.9
30	31.38	39.23	36.40	49.01	52.76	29.06	27.46	32.67	20- 30	18.40	35.63	28.7,28.7
40	13.24	32.15	29.27	39.94	31.11	33.75	34.86	25.32	30- 40	20.65	56.28	45.4,45.4
50	4.774	23.04	22.19	38.08	19.90	27.12	30.14	16.69	40- 50	20.67	76.95	62,62
60	1.237	18.22	27.00	29.59	5.660	19.60	15.18	7.257	50- 60	17.67	94.62	76.3,76.3
70	0.6592	9.594	25.59	19.65	1.957	8.501	10.17	2.075	60- 70	13.08	107.7	86.8,86.8
80	0.3468	4.369	27.49	12.18	1.056	1.312	2.847	0.6058	70- 80	8.705	116.4	93.9,93.9
90	0.0531	1.328	15.22	4.020	0.7382	0.8359	0.6290	0.2858	80- 90	4.507	120.9	97.5,97.5
100	0.0908	0.5288	5.993	0.9262	0.4347	1.072	0.3304	0.1378	90-100	1.996	122.9	99.1,99.1
110	0.0449	0.2891	0.9507	1.458	0.1682	0.1332	0.1425	0.0631	100-110	0.6436	123.5	99.6,99.6
120	0.0297	0.1535	0.4358	0.4105	0.0955	0.0802	0.0826	0.0350	110-120	0.2297	123.8	99.8,99.8
130	0.0375	0.0660	0.2023	0.1724	0.0567	0.0570	0.0616	0.0367	120-130	0.1078	123.9	99.9,99.9
140	0.0480	0.0373	0.0868	0.0688	0.0463	0.0523	0.0592	0.0464	130-140	0.0521	123.9	99.9,99.9
150	0.0637	0.0320	0.0447	0.0368	0.0540	0.0635	0.0656	0.0613	140-150	0.0321	124.0	100,100
160	0.0796	0.0299	0.0296	0.0214	0.0704	0.0785	0.0713	0.0748	150-160	0.0242	124.0	100,100
170	0.0832	0.0482	0.0311	0.0418	0.0827	0.0831	0.0807	0.0828	160-170	0.0169	124.0	100,100
180	0.0815	0.0815	0.0815	0.0815	0.0815	0.0815	0.0815	0.0815	170-180	0.0069	124.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz
Lamp Flux:124.018x1 lm

NAME: ASD-EML-LP2-W

TYPE:

WEIGHT:

SPEC.: 4000K

DIM.:

SERIAL No.: s26010001a-01

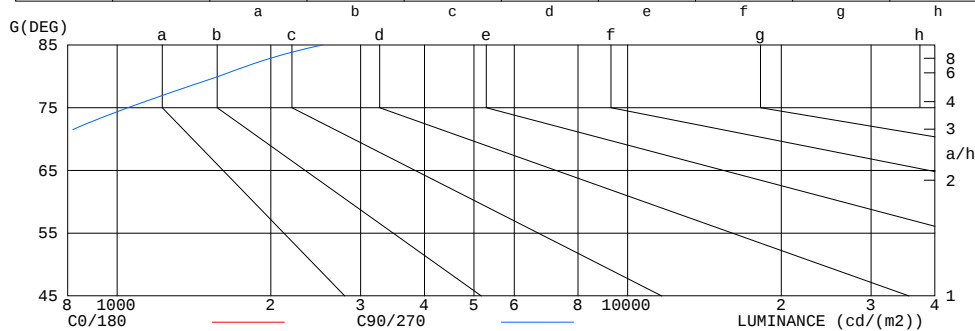
MFR.: ASD Lighting Corp

SUR.:

Shielding Angle:

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



LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	28	2531
80	20	1583
75	19	1051
70	19	748
65	20	627
60	25	540
55	35	423
50	74	345
45	107	354

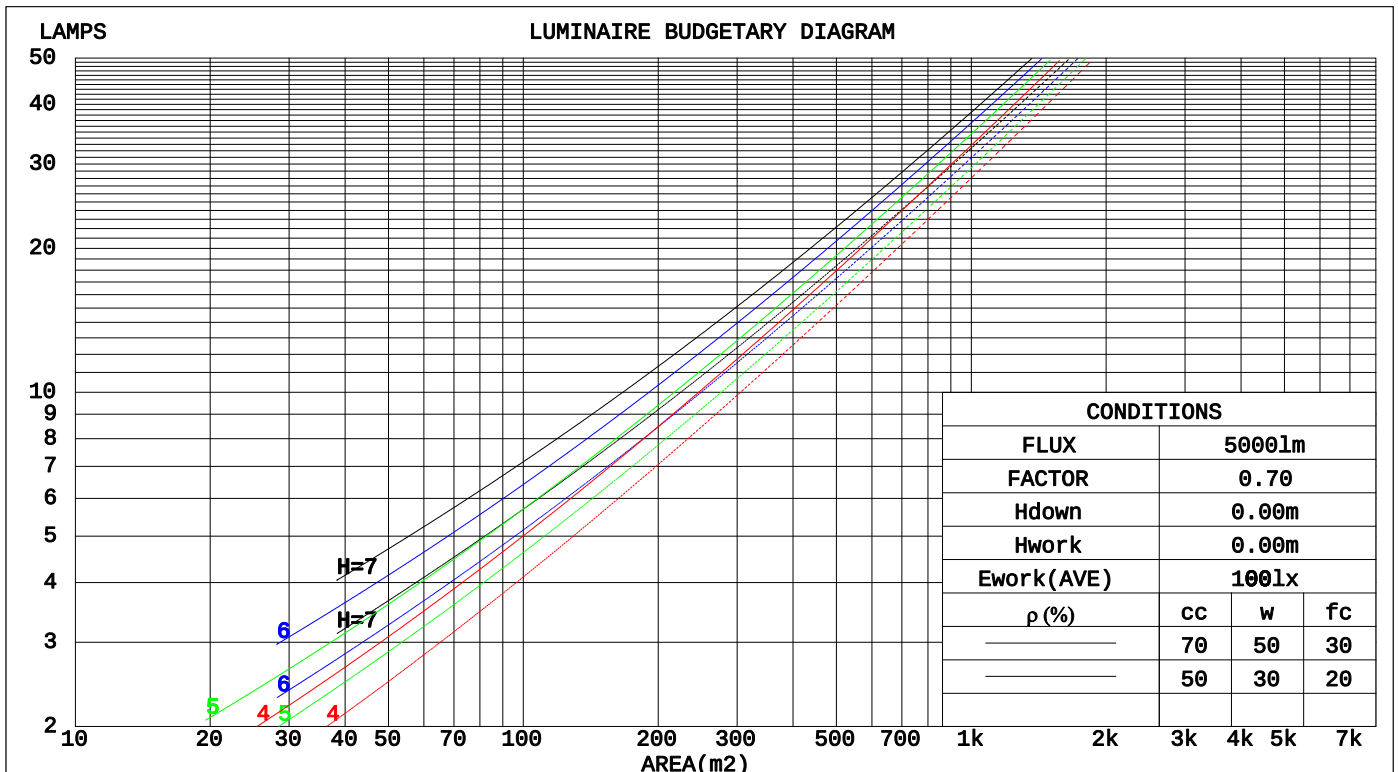
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:
Stability time:0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm					
NAME: ASD-EML-LP2-W		TYPE:		WEIGHT:	
SPEC.: 4000K		DIM.:		SERIAL No.: s26010001a-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	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.97
1.0	1.03	.98	.94	1.00	.96	.92	.95	.92	.89	.91	.88	.86	.87	.85	.83	.81
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.75	.72	.77	.73	.70	.67
3.0	.79	.71	.64	.77	.70	.64	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.55	.49	.45	.43
6.0	.57	.48	.42	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.42	.36	.32	.30
9.0	.44	.35	.30	.43	.35	.30	.42	.34	.30	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.36	.31	.26	.25



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

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm																	
NAME: ASD-EML-LP2-W						TYPE:						WEIGHT:					
SPEC.: 4000K						DIM.:						SERIAL No.: s26010001a-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	.321	.183	.058	.313	.179	.057	.299	.171	.055	.285	.164	.053	.273	.158	.051		
2.0	.294	.161	.049	.287	.158	.049	.274	.152	.047	.262	.147	.046	.250	.142	.045		
3.0	.268	.143	.043	.262	.140	.042	.251	.136	.041	.240	.132	.040	.230	.127	.039		
4.0	.246	.128	.038	.241	.126	.037	.231	.122	.037	.221	.119	.036	.212	.115	.035		
5.0	.227	.116	.034	.222	.114	.033	.213	.111	.033	.205	.108	.032	.197	.105	.032		
6.0	.210	.105	.030	.206	.104	.030	.198	.101	.029	.190	.099	.029	.183	.096	.029		
7.0	.196	.097	.027	.192	.096	.027	.184	.093	.027	.177	.091	.026	.171	.089	.026		
8.0	.183	.089	.025	.179	.088	.025	.173	.086	.025	.166	.084	.024	.160	.082	.024		
9.0	.171	.083	.023	.168	.082	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022		
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.148	.073	.021	.143	.072	.021		

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	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.200	.175	.153	.171	.150	.131	.117	.104	.091	.067	.060	.053	.022	.019	.017	
2.0	.192	.151	.117	.164	.130	.101	.113	.090	.071	.065	.052	.041	.021	.017	.013	
3.0	.184	.134	.094	.157	.115	.081	.108	.080	.057	.062	.047	.034	.020	.015	.011	
4.0	.176	.121	.078	.151	.104	.068	.104	.073	.048	.060	.043	.028	.019	.014	.009	
5.0	.168	.110	.067	.144	.095	.059	.099	.067	.041	.058	.039	.025	.019	.013	.008	
6.0	.161	.102	.059	.138	.088	.052	.095	.062	.037	.055	.036	.022	.018	.012	.007	
7.0	.154	.095	.053	.132	.082	.047	.092	.058	.033	.053	.034	.020	.017	.011	.006	
8.0	.147	.089	.049	.127	.077	.043	.088	.054	.030	.051	.032	.018	.017	.010	.006	
9.0	.141	.084	.045	.122	.073	.040	.084	.051	.028	.049	.030	.017	.016	.010	.006	
10.0	.136	.080	.043	.117	.069	.037	.081	.049	.026	.047	.029	.016	.015	.009	.005	

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 G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm										
NAME: ASD-EML-LP2-W					TYPE:			WEIGHT:		
SPEC.: 4000K					DIM.:			SERIAL No.: s26010001a-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, 124.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -7.3)
Area: 0.1 m2

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

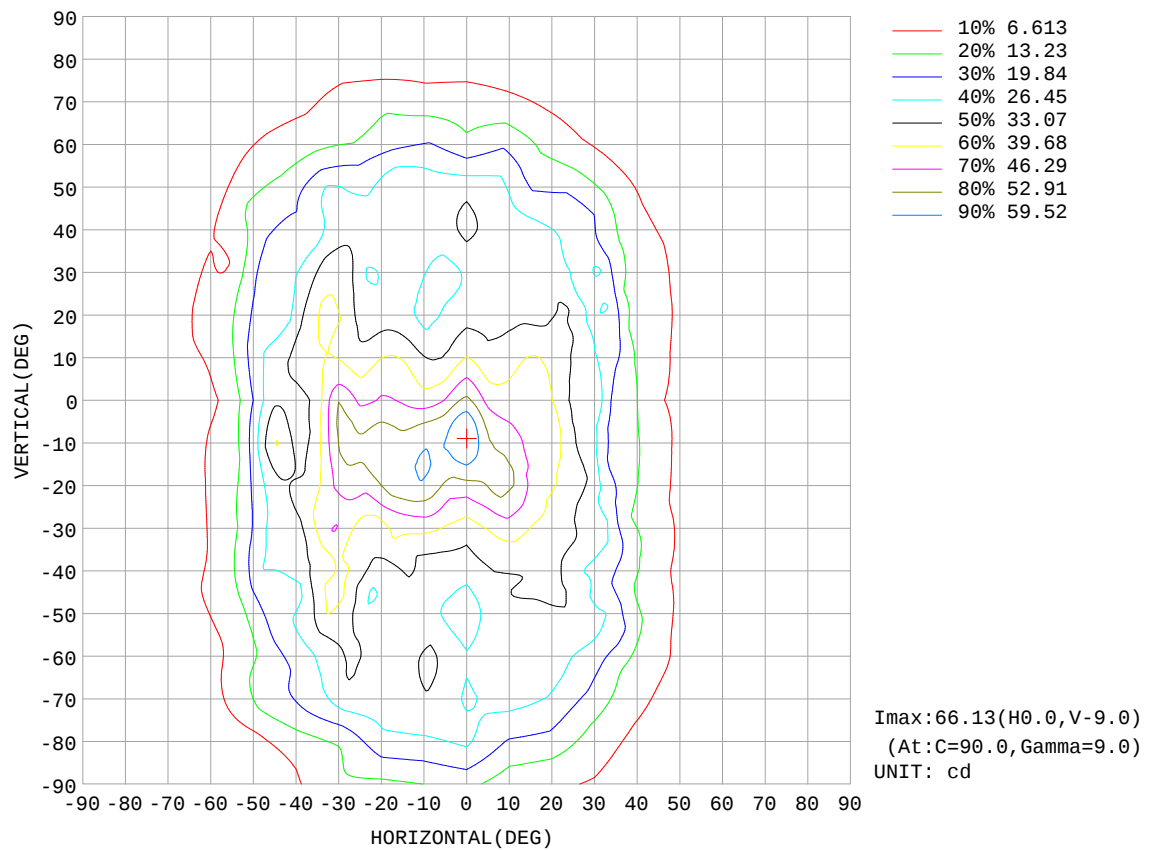
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	40	57	46	40	56	46	39	33
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	76	70	82	74	69	61
2.00	94	85	78	92	84	78	88	81	76	68
2.50	98	90	83	96	88	82	91	85	80	72
3.00	101	94	88	99	92	87	94	89	84	75
4.00	105	99	94	102	97	92	98	93	90	80
5.00	107	102	98	105	100	96	100	96	93	83
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°C
Operators:
Test Date:
Stability time:0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

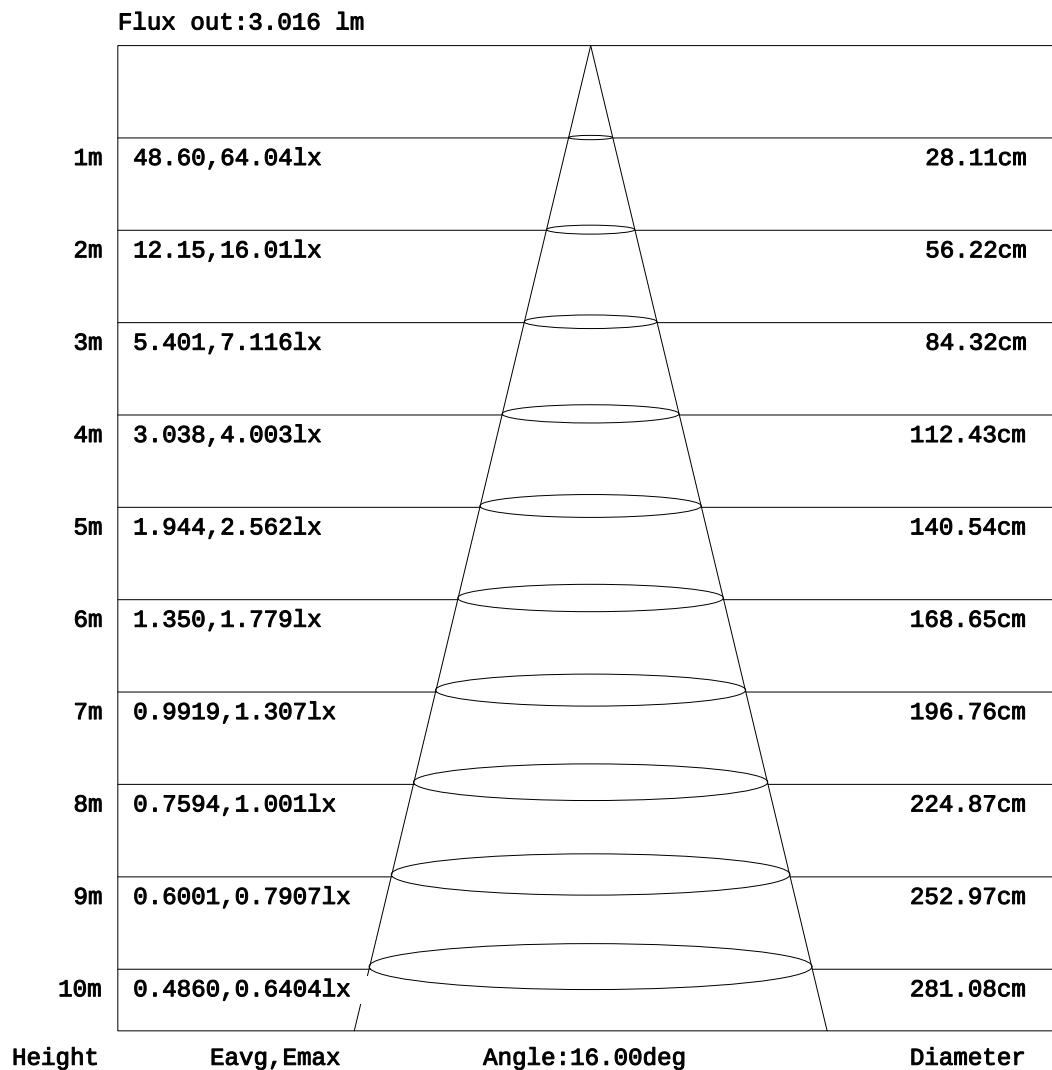


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:
Test Date:
Stability time:0 s

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



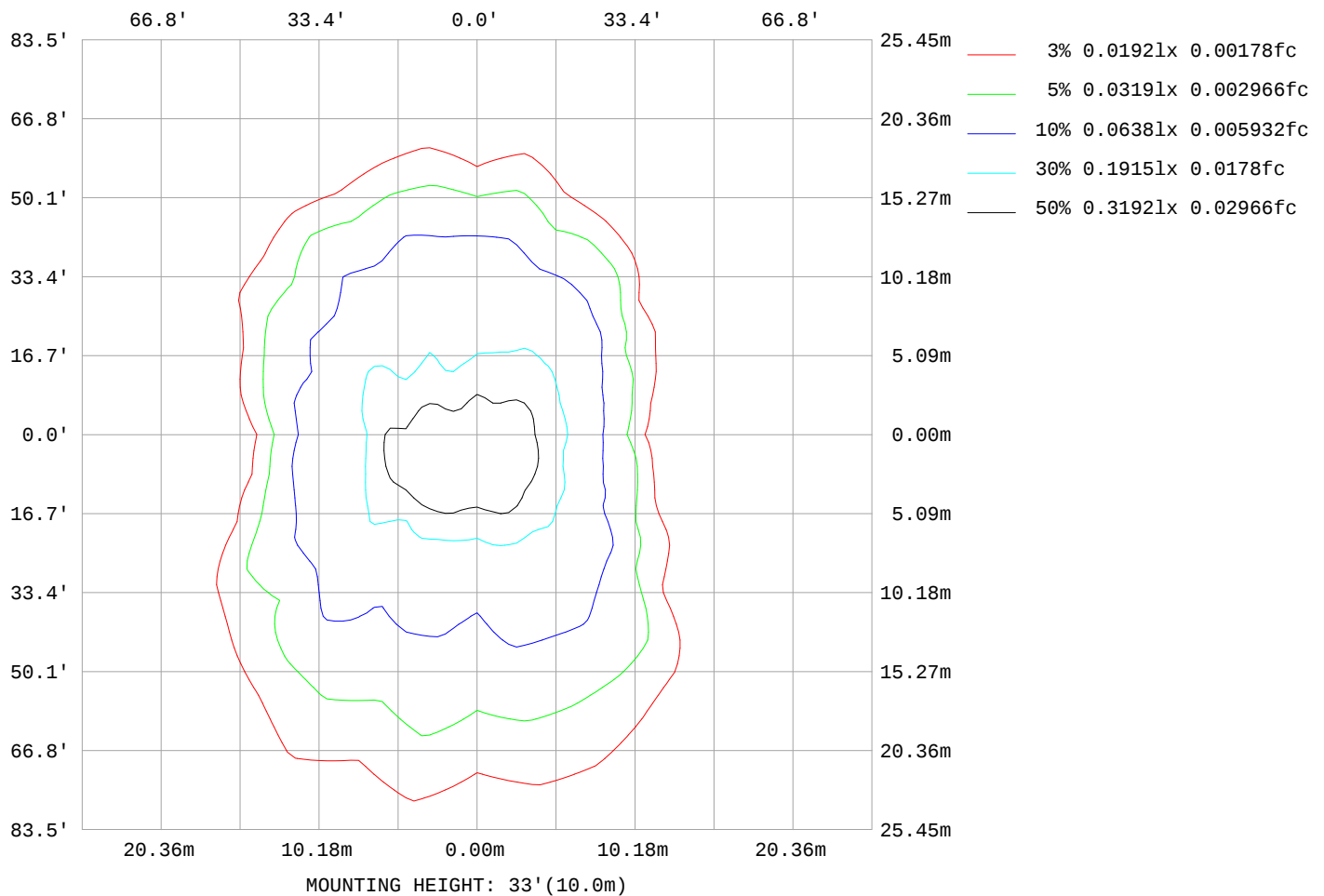
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

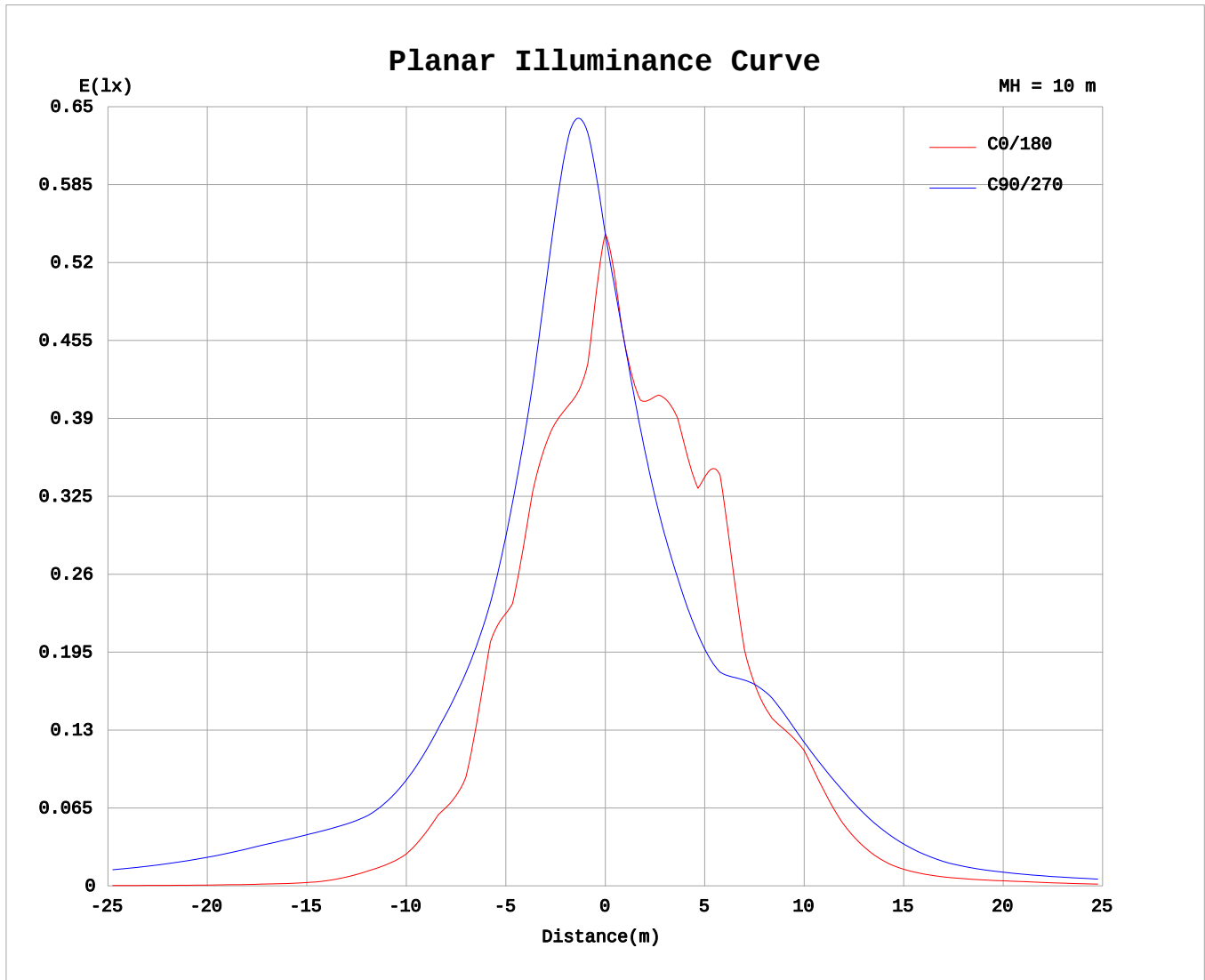
AvgL	cd/m2
L_0~180(65)av	64
L_0~180(75)av	35
L_0~180(85)av	65
L_90~270(65)av	458
L_90~270(75)av	648
L_90~270(85)av	1340
L_45(65)av	325
L_45(75)av	289
L_45(85)av	258

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 G0-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°C
Operators:
Test Date:
Stability time: 0 s

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm		
NAME: ASD-EML-LP2-W	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: s26010001a-01
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
γ (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
5	44.1	45.3	46.9	48.9	51.3	53.9	56.7	59.4	61.8	63.5	62.9	61.5	59.6	57.4	55.1	52.8	50.5	48.4	46.6
10	42.2	43.5	45.1	46.8	48.6	50.7	53.2	57.8	62.6	66.0	64.6	61.9	59.1	57.5	55.7	53.1	49.6	45.9	42.4
15	42.3	43.2	44.2	45.6	47.9	51.5	53.8	54.8	57.6	59.9	58.4	57.5	59.2	59.6	57.1	54.0	51.2	48.2	45.4
20	39.7	42.3	44.4	44.7	44.7	48.7	55.5	55.0	52.2	50.6	50.4	55.0	60.1	59.3	57.0	55.9	54.7	51.5	47.0
25	31.6	33.3	36.9	40.7	42.4	43.7	49.8	51.8	46.5	43.0	44.5	52.0	56.0	57.2	56.8	55.8	54.2	50.4	44.6
30	31.4	28.4	30.5	35.2	38.9	39.6	43.0	45.3	40.5	36.4	39.5	44.3	46.8	49.3	48.7	52.4	54.6	54.5	52.8
35	16.5	16.8	20.8	30.1	32.9	39.1	36.4	39.5	36.9	32.4	34.1	36.6	40.6	36.7	45.5	49.2	44.3	38.8	35.8
40	13.2	13.7	15.0	22.2	30.3	34.0	35.6	34.3	33.4	29.3	29.8	33.5	34.3	33.9	46.0	41.4	33.9	30.1	31.1
45	7.56	11.0	12.4	13.7	27.3	28.7	34.3	33.5	32.5	25.0	28.9	32.5	29.8	38.1	43.1	36.3	32.8	39.9	31.9
50	4.77	5.59	8.09	11.9	20.1	26.0	34.0	32.4	32.0	22.2	27.6	30.5	25.6	41.8	34.4	28.6	27.8	26.2	19.9
55	2.03	2.27	4.61	10.3	13.7	25.1	32.5	31.6	32.1	24.2	30.8	29.6	28.8	42.2	27.1	29.7	19.6	11.9	9.76
60	1.24	1.37	2.92	6.12	11.4	25.1	29.5	30.0	31.0	27.0	34.4	28.4	33.2	35.3	23.8	24.9	11.9	8.68	5.66
65	0.85	1.03	1.68	4.56	9.24	17.9	24.5	29.5	29.9	26.5	34.5	27.9	34.1	27.3	22.4	15.3	7.96	4.99	4.55
70	0.66	0.76	1.06	2.70	7.61	11.6	20.9	27.1	28.8	25.6	32.4	27.7	32.6	23.1	16.2	8.32	6.70	2.36	1.96
75	0.48	0.58	0.79	1.34	4.84	9.11	15.7	23.0	24.9	27.2	29.5	27.7	26.2	20.8	16.6	6.77	3.23	1.69	1.31
80	0.35	0.43	0.61	0.90	2.56	6.18	11.5	18.1	19.4	27.5	25.3	24.9	16.1	13.9	10.5	5.32	1.87	1.22	1.06
85	0.24	0.33	0.48	0.68	1.39	3.56	8.56	12.7	14.2	22.1	19.5	18.6	12.7	7.72	3.99	2.38	1.41	0.95	0.89
90	0.05	0.25	0.39	0.52	0.75	1.91	5.88	8.01	9.51	15.2	13.3	11.9	12.6	5.73	2.31	1.32	1.00	0.81	0.74
95	0.06	0.15	0.27	0.39	0.55	1.03	3.01	4.74	6.08	10.2	7.98	7.56	6.96	2.71	1.38	0.89	0.90	0.82	0.56
100	0.09	0.13	0.17	0.28	0.44	0.62	1.04	2.50	3.54	5.99	3.95	4.27	2.31	1.00	0.85	0.80	1.02	0.57	0.43
105	0.06	0.10	0.12	0.20	0.32	0.48	0.60	1.23	1.78	2.93	1.95	1.88	1.16	0.83	1.16	1.34	0.69	0.40	0.24
110	0.04	0.07	0.09	0.14	0.23	0.35	0.46	0.61	0.71	0.95	0.88	0.70	0.60	0.99	1.93	1.09	0.35	0.23	0.17
115	0.03	0.05	0.07	0.10	0.17	0.25	0.34	0.41	0.38	0.39	0.48	0.46	0.48	0.89	1.07	0.41	0.21	0.15	0.13
120	0.03	0.03	0.05	0.07	0.13	0.18	0.25	0.33	0.37	0.44	0.45	0.44	0.49	0.51	0.31	0.22	0.14	0.10	0.10
125	0.03	0.02	0.03	0.05	0.08	0.13	0.17	0.21	0.25	0.29	0.31	0.34	0.48	0.35	0.20	0.14	0.10	0.08	0.07
130	0.04	0.02	0.03	0.04	0.05	0.08	0.11	0.14	0.17	0.20	0.21	0.25	0.32	0.21	0.13	0.10	0.08	0.06	0.06
135	0.04	0.02	0.02	0.03	0.04	0.05	0.08	0.09	0.11	0.13	0.14	0.16	0.15	0.11	0.09	0.07	0.06	0.05	0.05
140	0.05	0.03	0.02	0.03	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.10	0.09	0.07	0.07	0.05	0.04	0.04	0.05
145	0.06	0.04	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.05
150	0.06	0.05	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.03	0.02	0.04	0.05
155	0.07	0.06	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.04	0.06
160	0.08	0.07	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.04	0.05	0.07
165	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.07	0.08
170	0.08	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08
175	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08
180	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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 G0-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:4.2000V I:0.3336A P:1.4000W PF:0.0000 Freq:0Hz Lamp Flux:124.018x1 lm																	
NAME: ASD-EML-LP2-W									TYPE:						WEIGHT:		
SPEC.: 4000K									DIM.:						SERIAL No.: s26010001a-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	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4		
5	45.4	44.5	44.0	43.8	44.0	44.5	45.2	46.0	46.7	45.9	45.0	44.1	43.4	42.9	42.7	42.8	43.3		
10	40.5	39.0	37.6	36.1	35.1	34.8	36.3	38.3	40.0	38.8	37.2	36.0	36.7	37.8	39.1	40.2	41.2		
15	43.9	41.9	38.9	35.1	31.2	29.7	30.5	32.8	34.7	34.0	33.0	33.7	35.5	38.2	40.4	41.7	42.1		
20	44.6	42.5	39.9	35.8	30.4	25.8	26.6	29.3	31.0	31.3	31.5	32.2	34.4	37.4	39.4	39.8	39.6		
25	40.2	37.3	35.2	32.9	29.5	26.5	24.4	25.6	28.2	28.8	30.1	30.7	31.4	33.5	35.5	34.3	32.4		
30	42.9	36.9	33.3	28.5	29.6	30.4	26.1	23.6	27.5	27.7	28.9	31.5	31.5	33.9	31.6	28.8	29.6		
35	39.1	39.9	40.1	32.4	25.0	32.6	27.6	26.7	31.2	29.0	30.0	32.9	30.1	26.7	25.8	25.1	20.6		
40	35.1	36.7	40.1	38.5	29.0	29.9	27.6	29.3	34.9	30.1	30.3	29.8	24.9	25.7	24.3	15.9	13.4		
45	30.9	25.6	30.8	34.6	32.5	30.3	29.9	29.6	33.9	28.9	26.4	25.4	23.1	21.5	11.7	10.2	9.54		
50	24.4	22.3	25.5	24.3	30.0	28.4	32.6	28.9	30.1	28.4	20.9	21.9	20.4	13.0	9.70	8.22	5.58		
55	15.0	18.7	24.2	20.4	29.2	23.3	28.8	25.9	22.7	24.6	16.3	17.8	14.7	8.24	7.73	4.40	3.38		
60	8.96	8.78	16.7	17.3	21.9	18.1	20.5	20.7	15.2	19.3	13.1	10.9	8.55	5.96	3.73	2.30	1.68		
65	7.55	6.40	12.4	12.0	12.9	12.3	15.0	15.4	12.2	13.6	9.54	6.48	4.96	3.43	1.91	1.22	0.95		
70	2.36	3.83	6.37	8.53	8.47	11.0	12.5	10.3	10.2	8.65	6.21	4.04	2.54	1.61	0.98	0.70	0.64		
75	1.53	1.89	2.93	2.51	4.22	8.08	7.93	6.29	6.34	5.12	3.53	2.18	1.30	0.90	0.60	0.53	0.45		
80	1.12	1.17	1.06	1.08	1.54	2.87	2.31	3.40	2.85	2.72	1.74	1.00	0.74	0.47	0.44	0.39	0.32		
85	0.90	0.82	0.77	0.90	0.64	0.67	0.53	1.63	1.30	1.31	0.85	0.51	0.43	0.36	0.31	0.26	0.22		
90	1.00	0.87	0.95	0.91	0.76	0.64	0.62	0.63	0.63	0.55	0.46	0.39	0.31	0.26	0.21	0.16	0.12		
95	0.51	0.67	0.95	1.32	1.38	0.49	0.43	0.33	0.35	0.29	0.29	0.28	0.22	0.17	0.14	0.11	0.10		
100	0.36	0.35	0.50	0.89	1.26	0.42	0.36	0.34	0.33	0.26	0.25	0.20	0.16	0.12	0.10	0.08	0.08		
105	0.21	0.18	0.20	0.24	0.37	0.29	0.28	0.25	0.22	0.18	0.17	0.14	0.11	0.08	0.06	0.06	0.05		
110	0.14	0.12	0.13	0.15	0.12	0.20	0.22	0.18	0.14	0.13	0.11	0.09	0.07	0.05	0.05	0.04	0.03		
115	0.11	0.09	0.09	0.10	0.11	0.13	0.14	0.12	0.10	0.09	0.07	0.06	0.04	0.04	0.04	0.03	0.02		
120	0.08	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02		
125	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02	0.02		
130	0.05	0.04	0.05	0.05	0.06	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.03		
135	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04		
140	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.05		
145	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05		
150	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06		
155	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07		
160	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08		
165	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09		
170	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09		
175	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08		
180	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08		

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 G0-R3000_V2 SYSTEM V2.00.494
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: Stability time:0 s