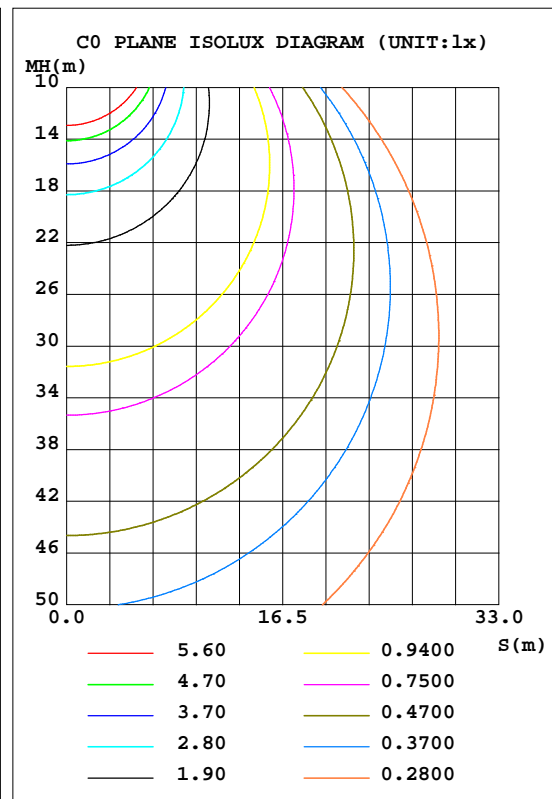
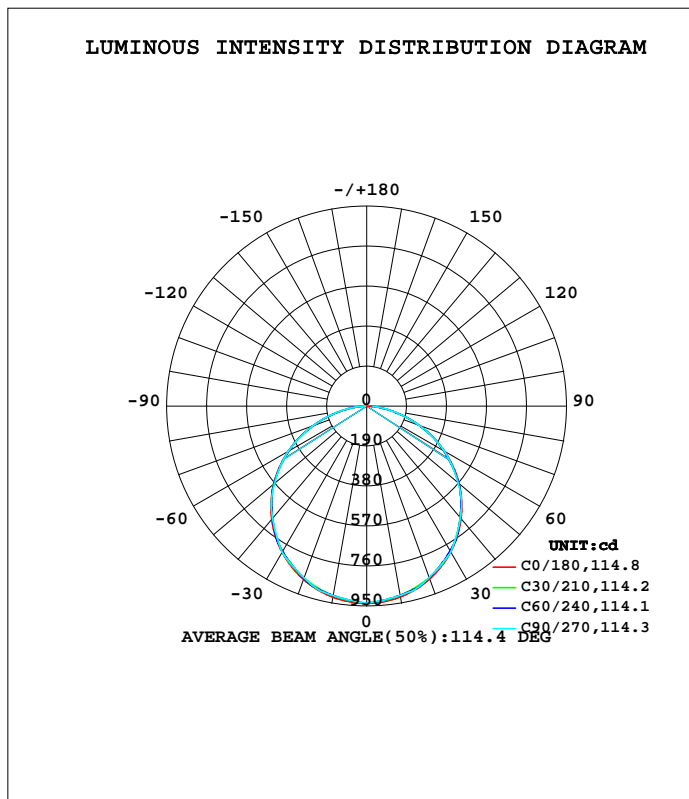


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.09 lm/W			
MODELASD	ELP12-22D2740-SHE	I <sub>max</sub> (cd)	936.8	S/MH(C0/180)	1.27
NOMINAL POWER(W)	27	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)		TOTAL FLUX(lm)	3050	η UP, DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	3050	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	932.9	926.5	925.1	927.0	933.5	927.4	925.6	926.9	0- 5	22.26	22.26	0.82,0.82
10	921.0	912.4	913.3	913.1	922.2	913.9	914.5	913.0	5- 10	65.88	88.14	3.24,3.24
15	901.6	894.5	899.4	895.5	903.4	896.6	901.0	895.5	10- 15	107.5	195.6	7.19,7.19
20	874.6	872.6	867.7	873.5	877.1	875.1	869.7	873.8	15- 20	145.8	341.4	12.5,12.5
25	840.5	835.2	833.9	836.6	843.6	838.4	836.2	837.0	20- 25	179.0	520.3	19.1,19.1
30	800.0	792.1	800.0	793.8	803.2	795.9	802.7	794.1	25- 30	206.6	727.0	26.7,26.7
35	752.2	746.5	746.2	748.9	756.3	751.2	749.5	748.8	30- 35	227.8	954.8	35.1,35.1
40	698.4	696.7	692.4	699.4	703.0	702.2	696.2	699.3	35- 40	241.1	1196	43.9,43.9
45	638.7	632.2	636.8	635.0	643.3	638.2	641.2	635.5	40- 45	246.7	1443	53,53
50	573.2	566.8	567.4	569.8	578.5	573.4	572.4	569.9	45- 50	244.3	1687	62,62
55	502.3	499.6	496.3	502.5	506.8	506.6	501.7	503.0	50- 55	233.1	1920	70.6,70.6
60	426.6	420.8	425.1	423.8	431.0	428.1	431.1	424.4	55- 60	214.1	2134	78.4,78.4
65	346.8	342.3	344.0	345.1	351.0	349.6	350.4	346.0	60- 65	187.9	2322	85.3,85.3
70	263.4	262.1	262.8	264.6	267.9	269.2	269.4	265.9	65- 70	154.9	2477	91,91
75	181.8	180.6	181.1	182.2	185.3	186.9	187.5	184.4	70- 75	117.1	2594	95.3,95.3
80	105.7	104.4	107.0	105.7	108.4	109.8	112.8	107.9	75- 80	77.13	2671	98.2,98.2
85	33.93	42.93	43.93	43.60	31.99	46.94	48.95	45.38	80- 85	40.15	2711	99.6,99.6
90	0.5672	2.161	3.637	2.184	1.035	3.327	5.644	2.615	85- 90	9.660	2721	100,100
95	0	0	0	0	0	0	0	0	90- 95	0.3492	2721	100,100
100	0	0	0	0	0	0	0	0	95-100	0	2721	100,100
105	0	0	0	0	0	0	0	0	100-105	0	2721	100,100
110	0	0	0	0	0	0	0	0	105-110	0	2721	100,100
115	0	0	0	0	0	0	0	0	110-115	0	2721	100,100
120	0	0	0	0	0	0	0	0	115-120	0	2721	100,100
125	0	0	0	0	0	0	0	0	120-125	0	2721	100,100
130	0	0	0	0	0	0	0	0	125-130	0	2721	100,100
135	0	0	0	0	0	0	0	0	130-135	0	2721	100,100
140	0	0	0	0	0	0	0	0	135-140	0	2721	100,100
145	0	0	0	0	0	0	0	0	140-145	0	2721	100,100
150	0	0	0	0	0	0	0	0	145-150	0	2721	100,100
155	0	0	0	0	0	0	0	0	150-155	0	2721	100,100
160	0	0	0	0	0	0	0	0	155-160	0	2721	100,100
165	0	0	0	0	0	0	0	0	160-165	0	2721	100,100
170	0	0	0	0	0	0	0	0	165-170	0	2721	100,100
175	0	0	0	0	0	0	0	0	170-175	0	2721	100,100
180	0	0	0	0	0	0	0	0	175-180	0	2721	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 1442.6 lm

%lum = 53.0%  
%lamp = 53.0%

Conical surface Flux(120deg): 2134 lm

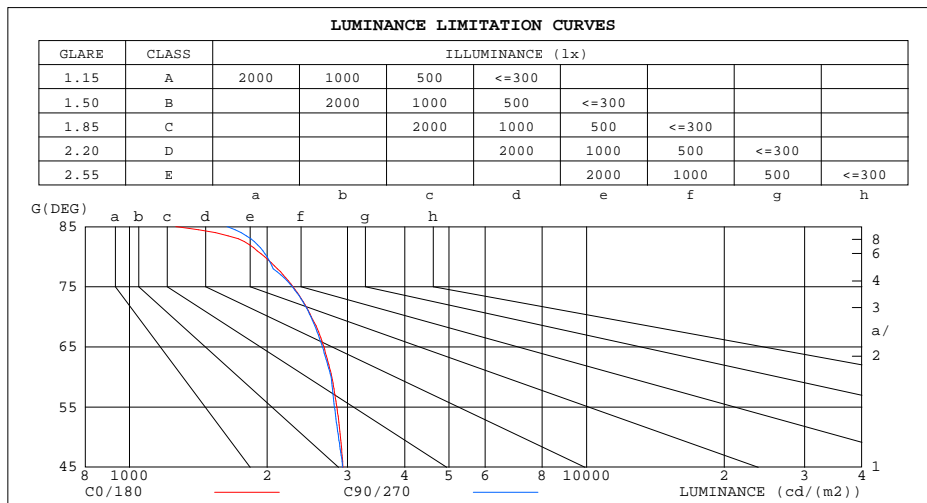
%lum = 78.4%  
%lamp = 78.4%

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:32DEG  
Operators:HUA  
Test Date:2017-09-20

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
Humidity:46%  
Test Distance:12.218m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1264	1636
80	1976	2000
75	2280	2272
70	2501	2495
65	2664	2643
60	2770	2761
55	2843	2809
50	2895	2866
45	2933	2924

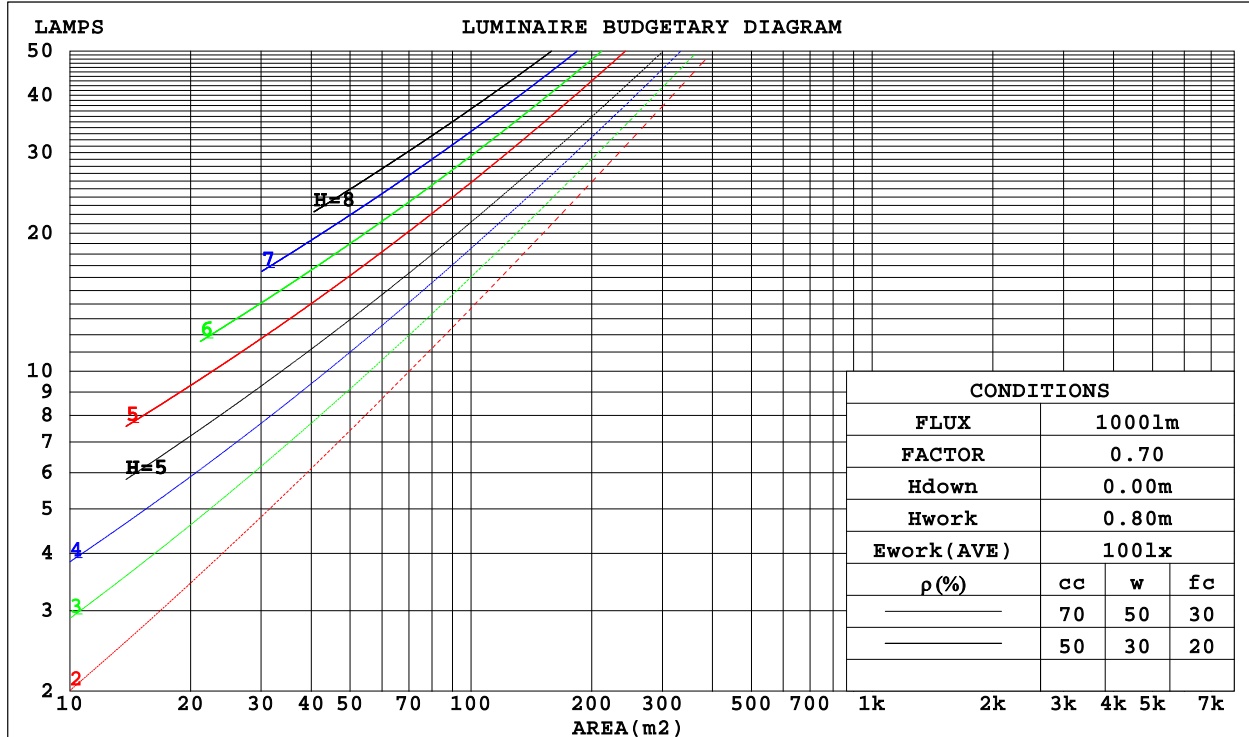
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.04	.99	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.82	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.62	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.311	.177	.056	.304	.173	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.265	.148	.046	.255	.144	.045	
3.0	.271	.144	.043	.266	.142	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.228	.122	.037	.220	.120	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.106	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.053	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm										
NAME: ASD-ELP12-22D2740-SHE					TYPE:LED PANEL			WEIGHT:		
SPEC.:					DIM.: 2x2			SERIAL No.:BLD20170920P02		
MFR.: ASD Lighting corp					SUR.:0.555*0.555			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	16.5	18.0	16.8	18.2	18.4	16.5	18.0	16.8	18.2	18.4
3H 4H 6H 8H 12H	18.0	19.4	18.3	19.7	19.9	18.0	19.4	18.3	19.7	19.9
	18.6	20.0	18.9	20.2	20.5	18.6	20.0	18.9	20.2	20.5
4H 2H	19.0	20.3	19.3	20.5	20.8	19.0	20.3	19.3	20.5	20.8
3H 4H 6H 8H	19.1	20.3	19.4	20.6	20.9	19.1	20.4	19.5	20.6	20.9
12H	19.1	20.3	19.4	20.6	20.9	19.2	20.4	19.5	20.7	21.0
8H 4H	17.1	18.5	17.4	18.7	19.0	17.1	18.5	17.4	18.7	19.0
6H 8H 12H	18.8	20.0	19.2	20.3	20.6	18.8	20.0	19.2	20.3	20.6
	19.5	20.6	19.9	20.9	21.3	19.5	20.6	19.9	20.9	21.3
12H 4H	20.0	21.0	20.4	21.3	21.7	20.0	21.0	20.4	21.3	21.7
6H	20.1	21.0	20.5	21.4	21.8	20.2	21.1	20.6	21.5	21.9
8H	20.2	21.0	20.6	21.4	21.8	20.3	21.1	20.7	21.5	21.9
	19.8	20.7	20.2	21.0	21.4	19.8	20.7	20.2	21.0	21.4
	20.4	21.1	20.8	21.6	22.0	20.4	21.2	20.9	21.6	22.0
	20.6	21.3	21.1	21.7	22.1	20.7	21.3	21.1	21.8	22.2
	20.7	21.3	21.2	21.7	22.2	20.9	21.4	21.3	21.9	22.4
	19.8	20.6	20.2	21.0	21.4	19.8	20.6	20.2	21.0	21.4
	20.5	21.1	20.9	21.5	22.0	20.5	21.1	20.9	21.6	22.0
	20.7	21.3	21.2	21.7	22.2	20.8	21.3	21.2	21.8	22.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

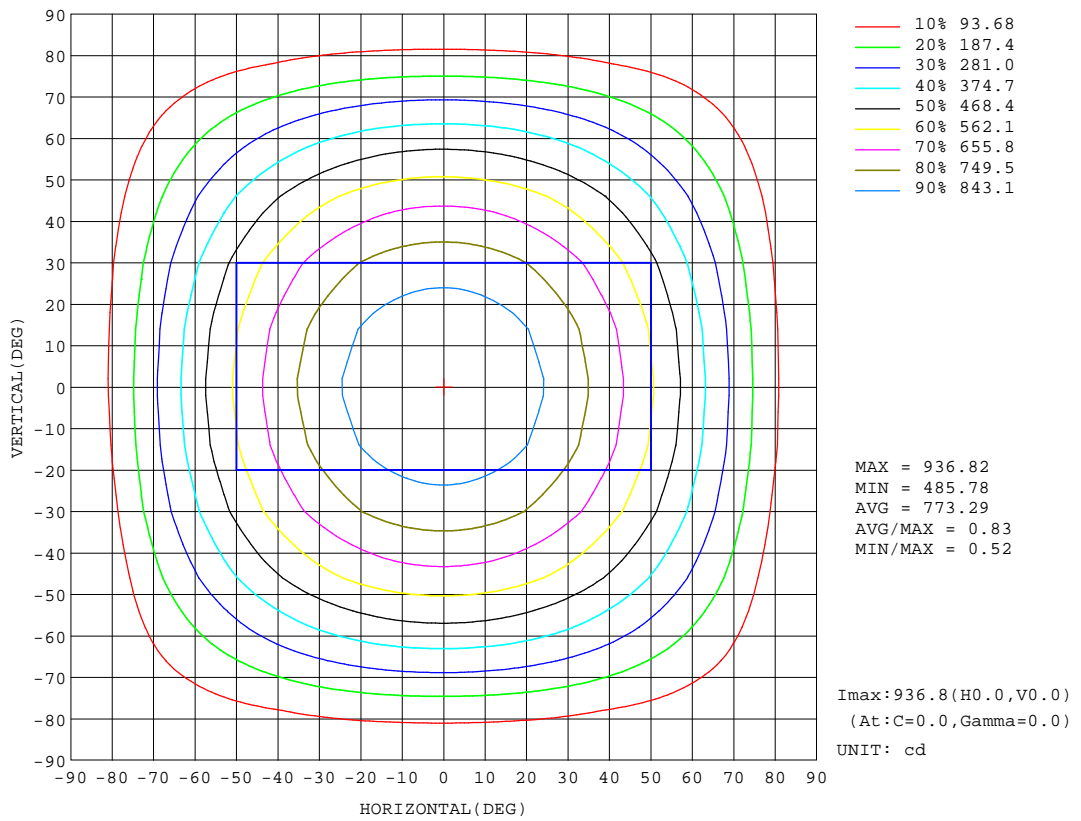
CIE Pub.117 Corrected 2830 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.5)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:



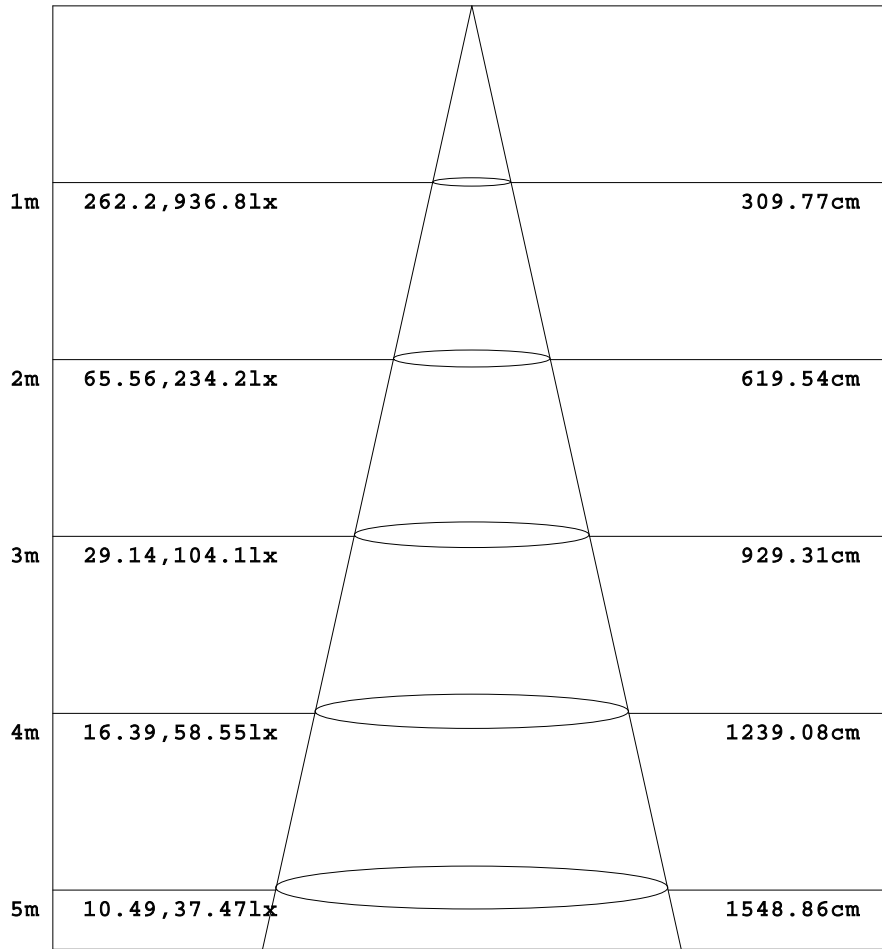
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

Flux out:2030 lm



Height                      Eavg, Emax                      Angle:114.30deg                      Diameter

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

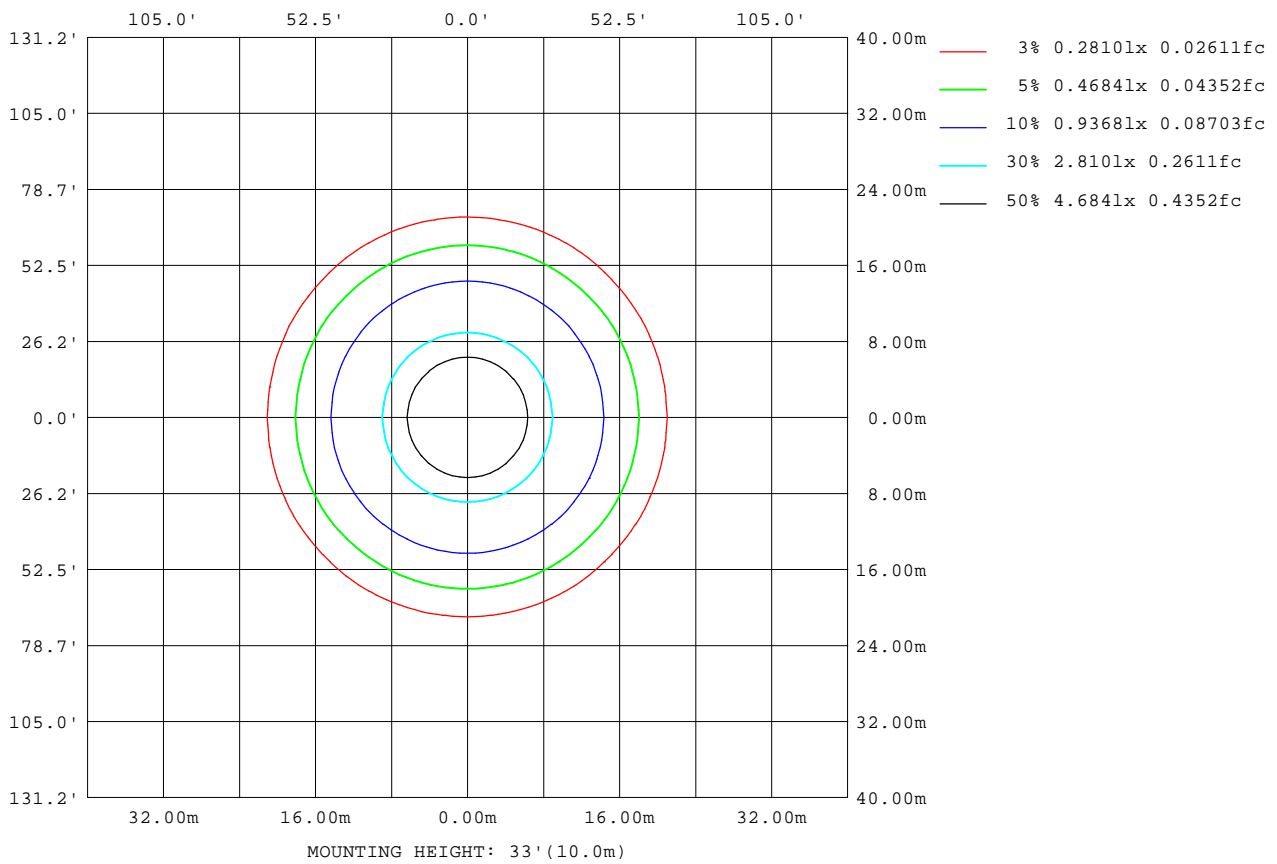
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

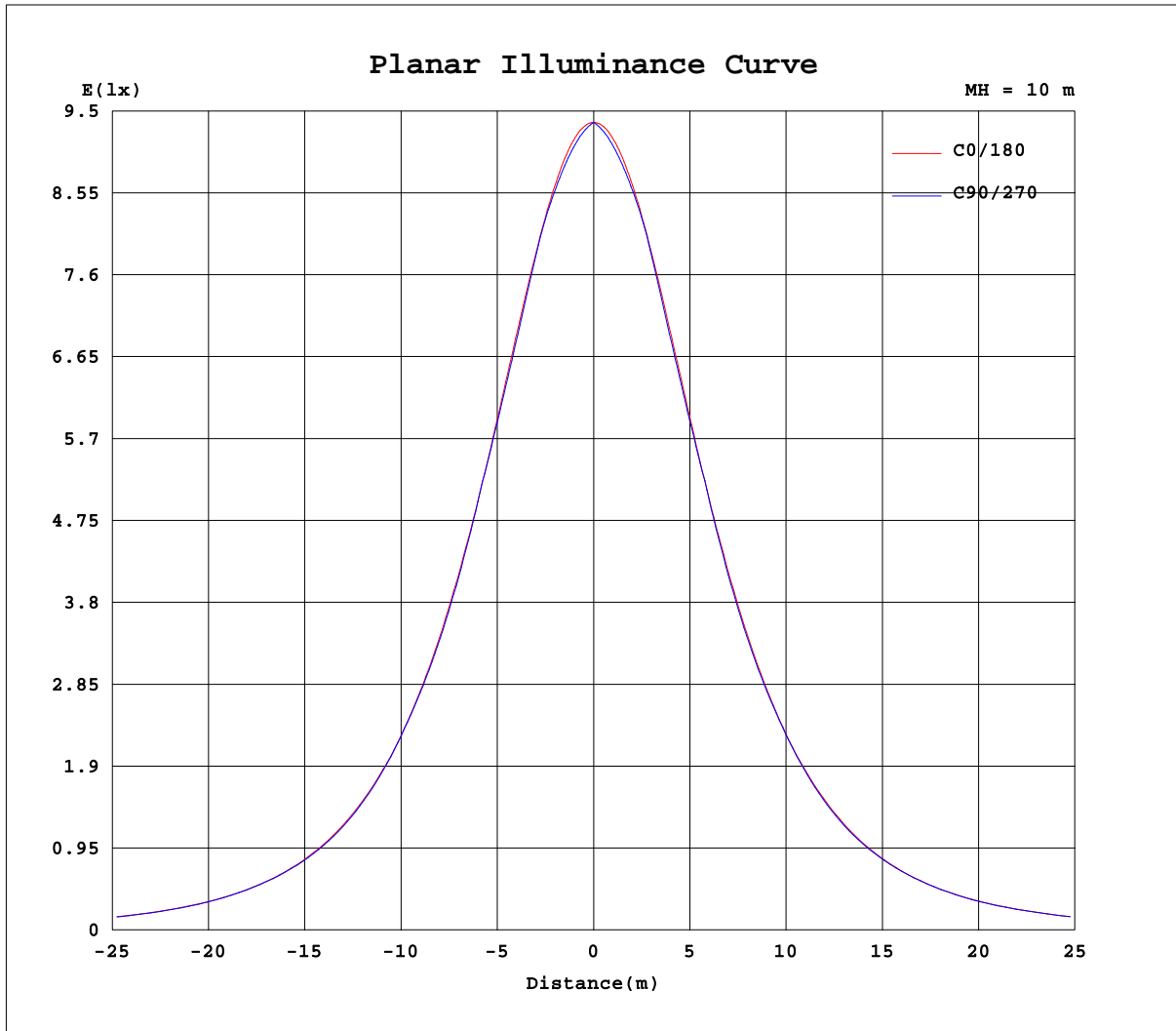
AvgL	cd/m2
L_0~180(65)av	2680
L_0~180(75)av	2302
L_0~180(85)av	1228
L_90~270(65)av	2667
L_90~270(75)av	2312
L_90~270(85)av	1730
L_45(65)av	2656
L_45(75)av	2302
L_45(85)av	1666

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:32DEG  
Operators:HUA  
Test Date:2017-09-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
Humidity:46%  
Test Distance:12.218m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 32DEG  
 Operators: HUA  
 Test Date: 2017-09-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 46%  
 Test Distance: 12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937
5	933	932	931	930	929	929	928	927	927	927	926	926	926	926	925	925	925	925	925
10	921	919	917	916	915	914	913	913	913	912	912	912	913	913	913	913	913	913	913
15	902	899	897	895	894	893	893	893	894	895	895	897	898	899	899	899	899	899	899
20	875	871	869	867	866	867	867	869	871	873	873	871	870	869	869	868	868	868	868
25	841	836	834	833	833	835	837	839	837	835	834	833	833	833	833	833	834	834	834
30	800	795	793	793	794	798	798	795	793	792	792	793	794	795	797	798	799	800	800
35	752	747	745	746	750	750	747	745	745	747	749	751	750	748	747	747	746	746	746
40	698	693	692	695	697	693	692	692	695	697	694	692	692	691	691	692	692	692	692
45	639	633	633	638	634	632	634	638	634	632	632	632	633	634	635	637	637	637	637
50	573	568	570	571	568	569	571	568	566	567	569	571	571	570	569	568	568	567	567
55	502	497	501	497	498	500	497	496	498	500	498	497	496	496	496	496	496	496	496
60	427	422	425	422	425	422	422	424	423	421	420	421	421	422	423	424	424	425	425
65	347	344	343	346	343	344	344	342	342	342	343	345	344	344	344	344	344	344	344
70	263	263	261	261	263	262	261	261	263	262	262	262	262	262	262	262	263	263	263
75	182	181	181	182	181	181	181	181	180	181	181	181	181	181	181	181	181	181	181
80	106	99.0	97.1	102	105	105	105	105	105	104	103	102	104	105	105	106	106	107	107
85	33.9	27.9	31.6	37.4	40.5	41.0	42.0	42.5	42.8	42.9	43.0	43.0	43.3	43.4	43.3	43.4	43.6	43.8	43.9
90	0.57	1.21	1.18	1.18	1.17	1.25	1.66	1.93	2.08	2.16	2.33	2.49	2.66	2.77	2.88	3.09	3.32	3.53	3.64
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937
5	925	925	925	926	926	926	926	927	927	927	928	929	929	930	931	932	932	933	932
10	913	913	913	913	913	913	913	913	913	913	914	914	915	916	917	919	920	922	920
15	899	900	900	900	899	898	897	896	895	895	894	894	895	895	897	898	901	903	901
20	868	868	869	869	870	871	872	873	874	872	870	869	868	868	869	871	873	877	874
25	834	834	834	834	834	834	834	835	837	839	840	839	836	835	835	837	839	844	840
30	800	800	799	798	797	796	794	794	794	795	797	800	800	796	795	796	798	803	799
35	746	747	747	748	750	751	754	751	749	748	747	749	752	752	749	749	751	756	751
40	692	692	692	692	693	693	694	696	699	698	695	694	696	700	698	695	697	703	698
45	637	637	637	636	635	635	634	634	635	637	641	637	636	637	640	637	637	643	638
50	568	568	569	570	571	573	573	571	570	570	571	575	573	571	574	573	572	579	573
55	496	496	497	497	497	498	499	501	503	501	500	500	504	501	501	505	501	507	502
60	425	425	425	424	424	423	423	423	424	426	428	425	425	429	426	429	426	431	427
65	344	344	345	345	346	346	347	346	345	345	345	348	347	346	349	347	347	351	348
70	263	263	263	263	263	264	264	264	265	265	264	264	265	265	265	265	266	268	266
75	181	182	182	182	183	183	183	183	182	182	183	183	183	183	183	183	183	185	183
80	107	107	107	106	106	105	104	105	106	106	107	106	106	106	102	96.2	97.1	108	107
85	44.0	43.9	43.9	43.9	44.0	43.9	43.8	43.8	43.6	43.5	43.3	42.8	41.8	41.0	37.3	31.5	25.7	32.0	38.6
90	3.62	3.43	3.22	3.05	2.91	2.76	2.57	2.44	2.18	2.04	1.95	1.67	1.32	1.19	1.19	1.18	1.17	1.04	0.66
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937
5	932	931	930	929	929	928	928	927	927	927	926	926	926	926	926	926	926	926	926
10	919	917	916	915	915	914	914	914	914	914	914	914	914	914	914	914	914	914	914
15	899	897	896	895	895	895	896	897	898	898	900	901	901	901	901	901	901	901	901
20	871	870	869	869	870	871	874	875	875	874	873	872	871	870	870	870	870	870	870
25	837	836	836	837	840	842	841	838	837	836	836	836	836	836	836	836	836	836	836
30	796	796	798	801	801	798	796	796	796	797	798	799	801	802	803	803	803	803	802
35	749	750	753	754	751	749	750	751	753	756	754	753	752	751	750	750	749	749	750
40	696	699	701	697	696	698	701	702	699	698	697	696	696	696	696	696	696	696	696
45	638	641	639	637	639	644	640	638	637	638	638	639	641	642	641	641	641	641	641
50	574	575	573	575	578	574	573	573	575	577	577	575	574	573	573	573	572	572	572
55	506	503	503	506	504	503	505	507	505	503	503	502	502	502	502	502	502	502	501
60	430	427	431	428	428	431	429	428	428	428	428	429	430	430	431	431	431	431	430
65	348	350	348	350	351	349	349	350	351	352	352	351	351	351	351	351	350	350	350
70	266	266	267	267	267	268	269	269	269	269	269	269	270	270	270	270	269	269	269
75	184	185	184	185	186	186	186	187	188	188	188	188	188	188	188	188	187	187	187
80	108	108	109	109	109	110	110	110	109	109	110	111	112	112	113	113	113	113	112
85	38.7	40.3	43.1	43.6	44.9	45.7	46.5	46.9	47.4	47.7	48.1	48.4	48.6	48.7	49.0	49.1	49.0	48.7	48.2
90	0.66	0.68	0.96	1.72	2.25	2.67	3.09	3.33	3.67	3.98	4.29	4.59	4.88	5.17	5.48	5.68	5.64	5.45	5.10
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
 Operators:HUA  
 Test Date:2017-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:46%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.2248 A P:27 W PF:0.9901 Lamp Flux:3050x1 lm		
NAME: ASD-ELP12-22D2740-SHE	TYPE:LED PANEL	WEIGHT:
SPEC.:	DIM.: 2x2	SERIAL No.:BLD20170920P02
MFR.: ASD Lighting corp	SUR.:0.555*0.555	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937				
5	926	926	926	926	926	927	927	927	928	928	929	929	930	931	932				
10	914	914	914	913	913	913	913	913	913	914	914	915	916	918	919				
15	901	901	900	899	898	897	896	895	894	894	894	894	895	897	899				
20	870	870	871	872	873	874	874	872	870	869	867	867	868	869	871				
25	835	835	835	835	835	836	837	839	840	838	836	834	833	834	837				
30	801	799	798	796	795	794	794	795	796	799	799	795	793	793	796				
35	750	750	751	753	754	751	749	747	747	748	751	751	747	746	747				
40	695	695	695	695	695	697	699	697	695	693	694	698	696	693	693				
45	641	640	638	637	635	635	635	637	640	636	634	635	638	634	634				
50	573	573	574	575	575	573	570	569	570	573	570	569	572	571	569				
55	501	500	500	500	501	502	503	501	499	499	502	499	498	501	498				
60	429	428	427	426	425	424	424	426	427	424	423	427	423	425	423				
65	350	349	349	349	349	348	346	345	345	347	346	344	347	344	344				
70	269	268	268	267	267	266	266	266	264	263	264	264	262	262	263				
75	187	187	187	186	186	185	184	184	184	183	182	182	182	181	181				
80	111	111	110	108	107	107	108	108	108	107	107	107	106	106	105				
85	47.7	47.4	47.1	46.7	46.3	45.9	45.4	44.8	44.2	43.5	42.4	41.8	39.0	37.1	37.4				
90	4.71	4.36	4.01	3.70	3.40	3.02	2.62	2.19	1.84	1.29	0.65	0.65	0.65	0.65	0.65				
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:32DEG  
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γ Range: 0 - 180DEG  
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