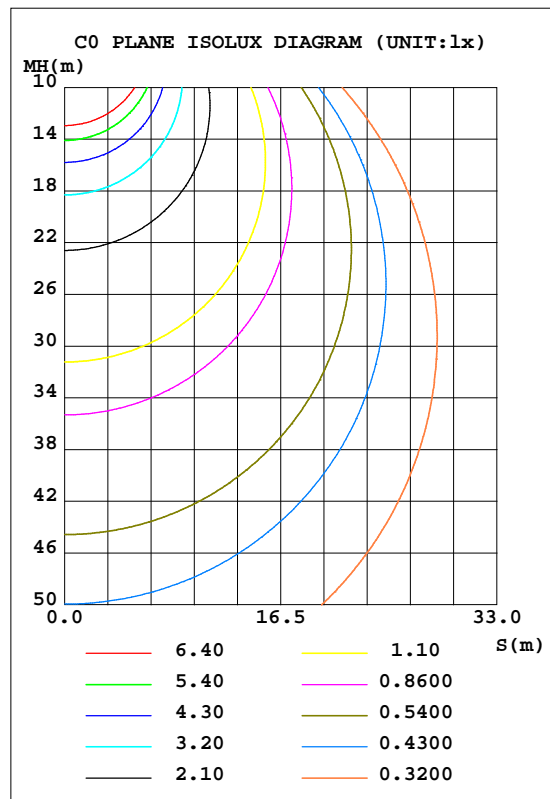
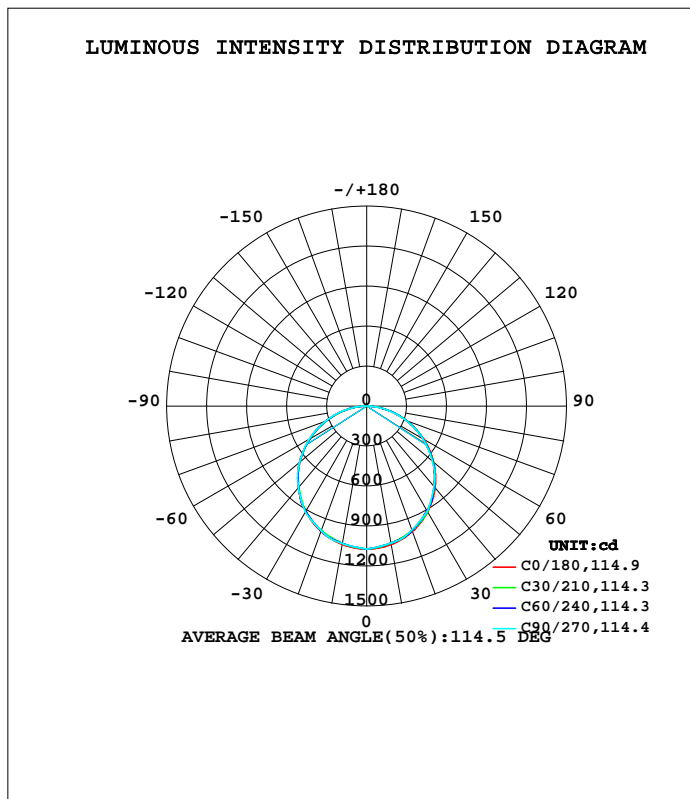


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.97 lm/W			
MODEL		I <sub>max</sub> (cd)	1073	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)	3436.6	η UP, DN(C0-180)	0.0,49.5
NOMINAL FLUX(lm)	3436.62	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.4
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:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 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	1068	1061	1059	1060	1068	1061	1060	1062	0- 5	25.49	25.49	0.81,0.81
10	1055	1044	1044	1043	1054	1046	1048	1046	5- 10	75.40	100.9	3.2,3.2
15	1033	1023	1028	1022	1032	1026	1032	1027	10- 15	123.0	223.9	7.1,7.1
20	1002	998.1	990.2	996.1	1001	1001	996.9	1002	15- 20	166.7	390.6	12.4,12.4
25	963.0	954.8	950.3	952.6	961.7	958.4	958.7	960.3	20- 25	204.6	595.2	18.9,18.9
30	916.2	904.5	910.4	902.3	914.4	909.3	920.6	911.0	25- 30	236.1	831.3	26.4,26.4
35	861.1	851.6	848.2	849.5	859.5	857.8	859.6	859.2	30- 35	260.1	1091	34.6,34.6
40	799.5	794.1	785.9	792.3	798.0	801.5	798.6	802.7	35- 40	275.0	1366	43.3,43.3
45	731.2	720.7	721.9	718.5	729.5	728.5	735.8	730.1	40- 45	281.3	1648	52.3,52.3
50	656.8	647.1	643.8	644.3	655.4	654.8	658.6	657.0	45- 50	278.6	1926	61.1,61.1
55	577.5	571.8	564.0	568.5	576.5	579.7	579.5	582.7	50- 55	266.3	2193	69.5,69.5
60	493.7	485.4	484.2	482.6	492.0	494.0	500.4	496.6	55- 60	245.7	2438	77.3,77.3
65	406.5	399.5	396.7	397.4	405.5	409.1	413.4	411.3	60- 65	217.6	2656	84.2,84.2
70	318.1	313.2	309.4	311.4	317.2	323.3	326.5	325.2	65- 70	182.7	2839	90,90
75	230.1	226.0	223.1	223.8	229.4	235.9	240.0	238.3	70- 75	143.1	2982	94.6,94.6
80	145.0	140.4	138.4	138.8	144.8	150.7	155.0	151.9	75- 80	100.3	3082	97.8,97.8
85	49.72	60.19	56.00	58.56	47.12	68.74	72.37	69.03	80- 85	55.96	3138	99.5,99.5
90	0.7473	2.898	4.002	1.976	1.323	5.956	11.84	5.810	85- 90	14.37	3152	100,100
95	0	0	0	0	0	0	0	0	90- 95	0.5321	3153	100,100
100	0	0	0	0	0	0	0	0	95-100	0	3153	100,100
105	0	0	0	0	0	0	0	0	100-105	0	3153	100,100
110	0	0	0	0	0	0	0	0	105-110	0	3153	100,100
115	0	0	0	0	0	0	0	0	110-115	0	3153	100,100
120	0	0	0	0	0	0	0	0	115-120	0	3153	100,100
125	0	0	0	0	0	0	0	0	120-125	0	3153	100,100
130	0	0	0	0	0	0	0	0	125-130	0	3153	100,100
135	0	0	0	0	0	0	0	0	130-135	0	3153	100,100
140	0	0	0	0	0	0	0	0	135-140	0	3153	100,100
145	0	0	0	0	0	0	0	0	140-145	0	3153	100,100
150	0	0	0	0	0	0	0	0	145-150	0	3153	100,100
155	0	0	0	0	0	0	0	0	150-155	0	3153	100,100
160	0	0	0	0	0	0	0	0	155-160	0	3153	100,100
165	0	0	0	0	0	0	0	0	160-165	0	3153	100,100
170	0	0	0	0	0	0	0	0	165-170	0	3153	100,100
175	0	0	0	0	0	0	0	0	170-175	0	3153	100,100
180	0	0	0	0	0	0	0	0	175-180	0	3153	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1797.4 lm

%lum = 52.3%  
%lamp = 52.3%

Conical surface Flux(120deg): 2656.5 lm

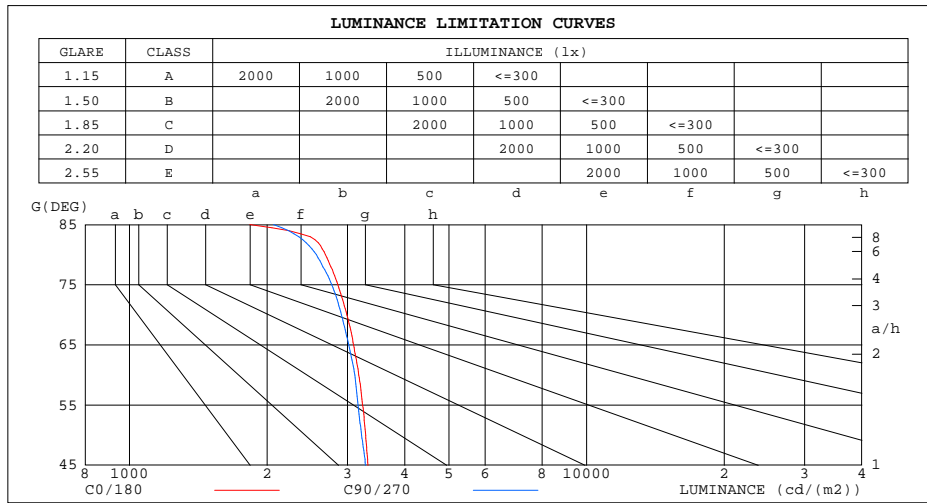
%lum = 77.3%  
%lamp = 77.3%

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:22DEG  
Operators:HUA  
Test Date:2017-12-13

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
Humidity:43%  
Test Distance:12.218m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1834	2066
80	2685	2563
75	2858	2772
70	2990	2909
65	3093	3018
60	3175	3114
55	3238	3162
50	3285	3221
45	3325	3283

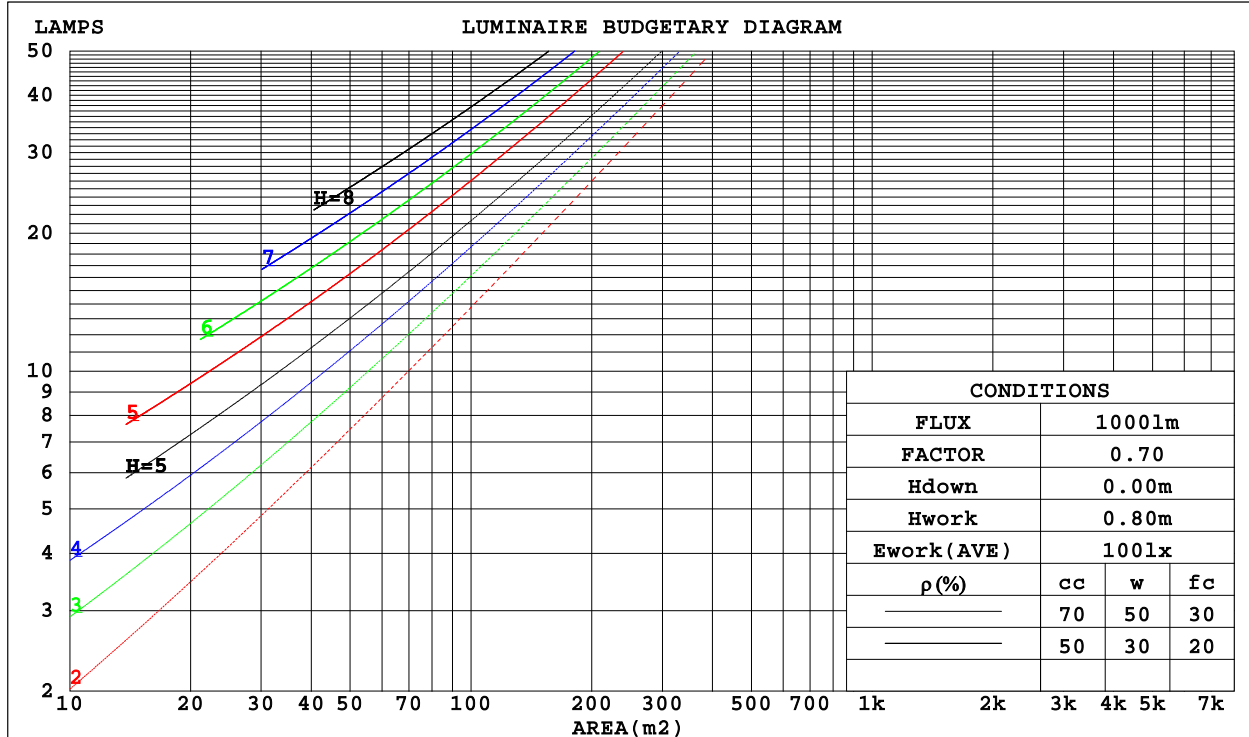
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	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	1.03	.99	.95	1.01	.97	.93	.97	.94	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	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	.318	.181	.057	.311	.178	.056	.298	.171	.055	.286	.165	.053	.274	.159	.051	
2.0	.298	.163	.050	.292	.161	.049	.280	.156	.048	.269	.151	.047	.259	.146	.046	
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037	
5.0	.233	.119	.034	.229	.118	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.092	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.102	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.079	.041	.089	.055	.029	.052	.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	.076	.033	.117	.066	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.029	.112	.061	.025	.077	.043	.018	.045	.025	.011	.015	.008	.003	
9.0	.124	.065	.025	.106	.056	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm										
NAME: ASD Lighting corp					TYPE:LED PANEL			WEIGHT:		
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)					DIM.: 603x603mm			SERIAL No.:BLD20171213N01		
MFR.: ASD Lighting corp					SUR.:0.558*0.558			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	16.9	18.5	17.2	18.7	18.9	16.9	18.4	17.1	18.6	18.8
3H	18.6	20.0	18.9	20.2	20.5	18.5	19.9	18.8	20.1	20.4
4H	19.2	20.6	19.5	20.8	21.1	19.1	20.5	19.4	20.7	21.0
6H	19.7	21.0	20.1	21.3	21.6	19.6	20.9	20.0	21.2	21.5
8H	19.8	21.1	20.2	21.4	21.7	19.8	21.0	20.1	21.3	21.6
12H	19.9	21.1	20.3	21.4	21.7	19.9	21.1	20.2	21.4	21.7
4H 2H	17.6	18.9	17.9	19.2	19.4	17.5	18.9	17.8	19.1	19.4
3H	19.4	20.6	19.7	20.9	21.2	19.3	20.5	19.6	20.8	21.1
4H	20.2	21.3	20.6	21.6	21.9	20.1	21.2	20.5	21.5	21.8
6H	20.8	21.8	21.2	22.1	22.5	20.7	21.7	21.1	22.0	22.4
8H	21.0	21.9	21.4	22.3	22.6	20.9	21.8	21.3	22.2	22.6
12H	21.1	21.9	21.5	22.3	22.7	21.1	21.9	21.5	22.3	22.7
8H 4H	20.5	21.4	20.9	21.7	22.1	20.4	21.3	20.8	21.7	22.1
6H	21.3	22.0	21.7	22.4	22.8	21.2	21.9	21.6	22.3	22.8
8H	21.5	22.2	22.0	22.6	23.1	21.5	22.2	22.0	22.6	23.0
12H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
12H 4H	20.5	21.3	20.9	21.7	22.1	20.4	21.2	20.8	21.6	22.0
6H	21.3	22.0	21.8	22.4	22.9	21.3	21.9	21.7	22.4	22.8
8H	21.7	22.2	22.1	22.7	23.2	21.6	22.2	22.1	22.6	23.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.3				

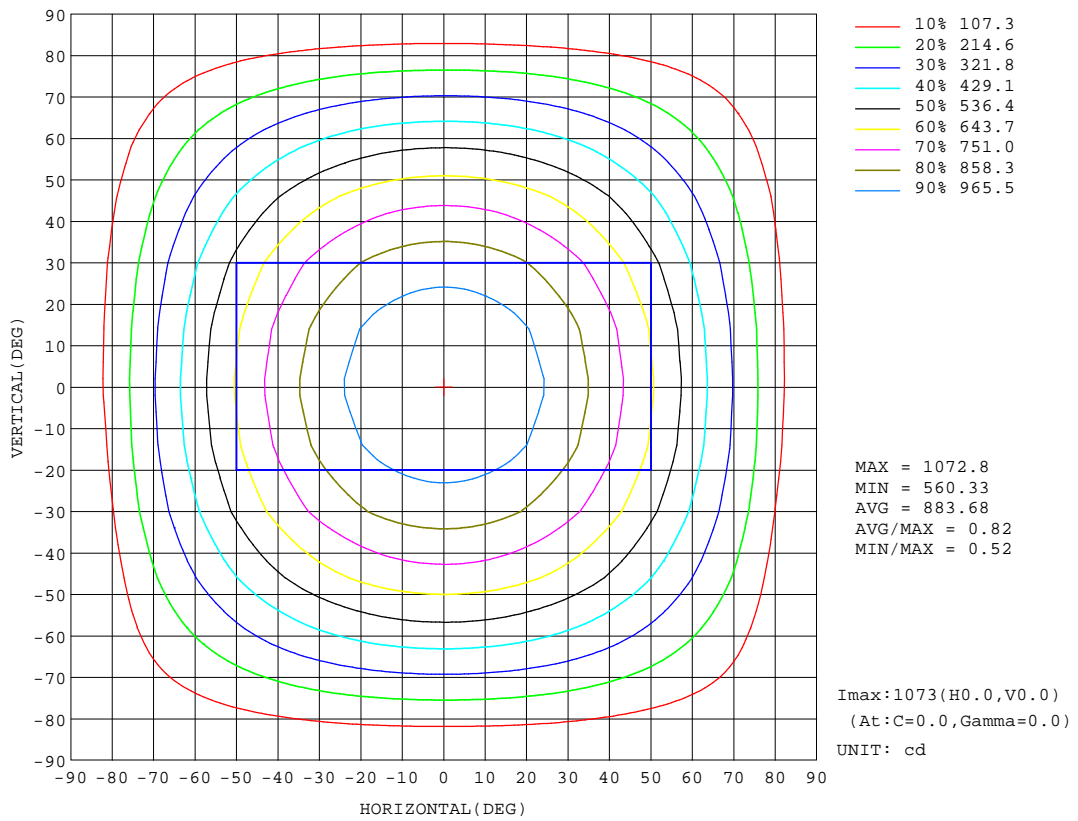
CIE Pub.117 Corrected 3436 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.0)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	Shielding Angle:



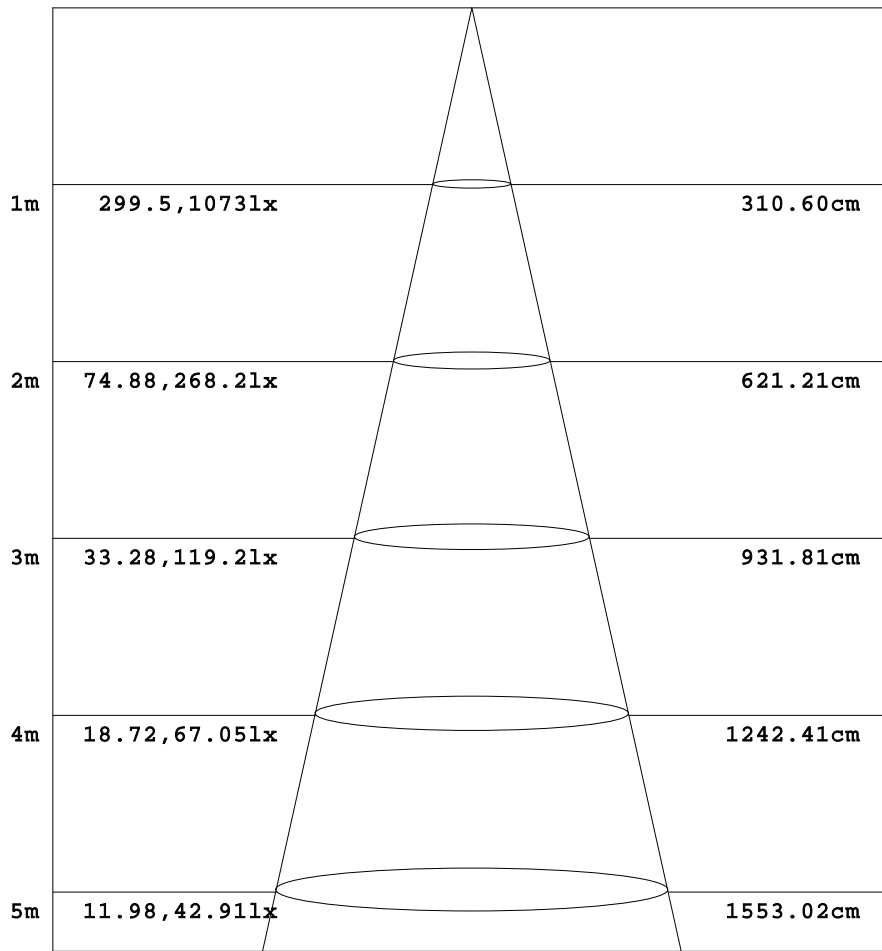
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	Shielding Angle:

Flux out:2318 lm



Height                      Eavg, Emax                      Angle: 114.44deg                      Diameter

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

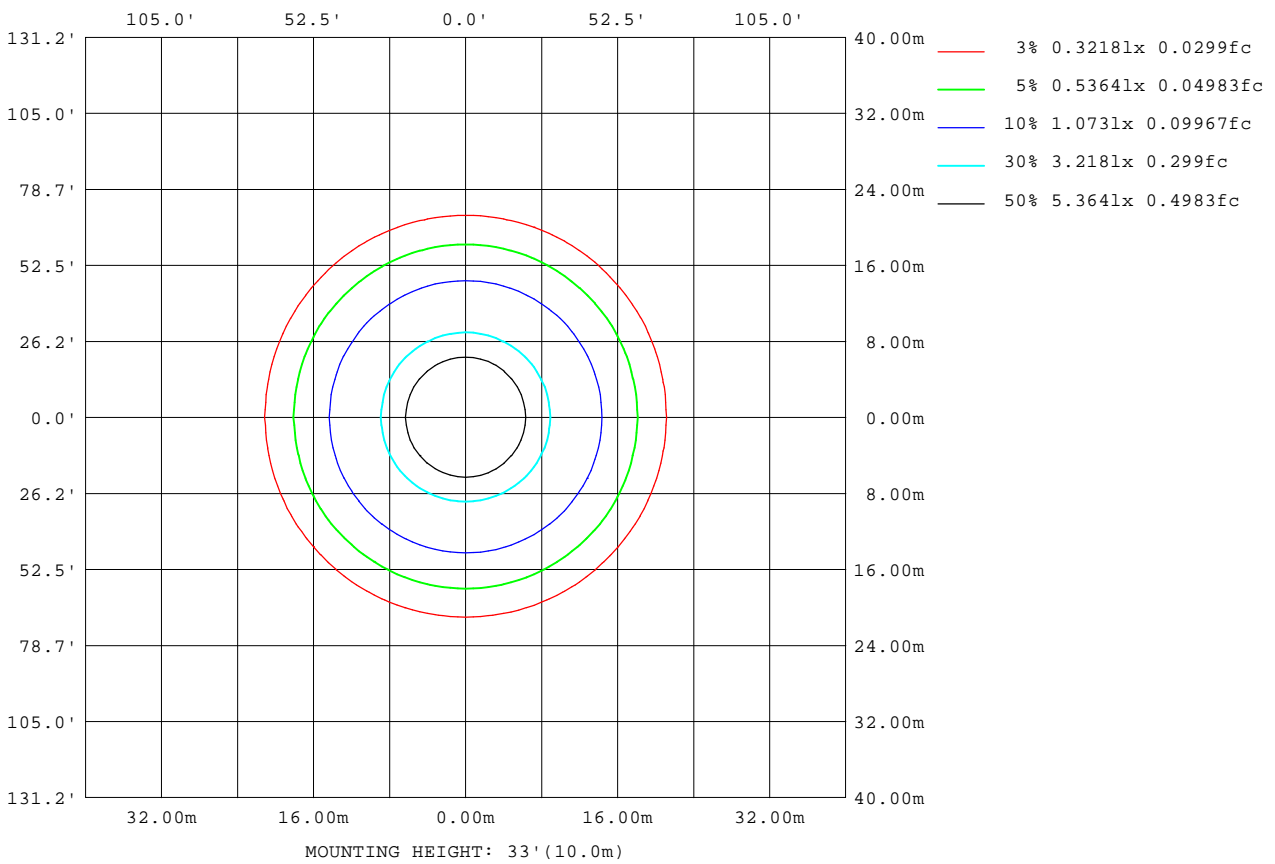
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 22DEG  
 Operators: HUA  
 Test Date: 2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 43%  
 Test Distance: 12.218m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	Shielding Angle:

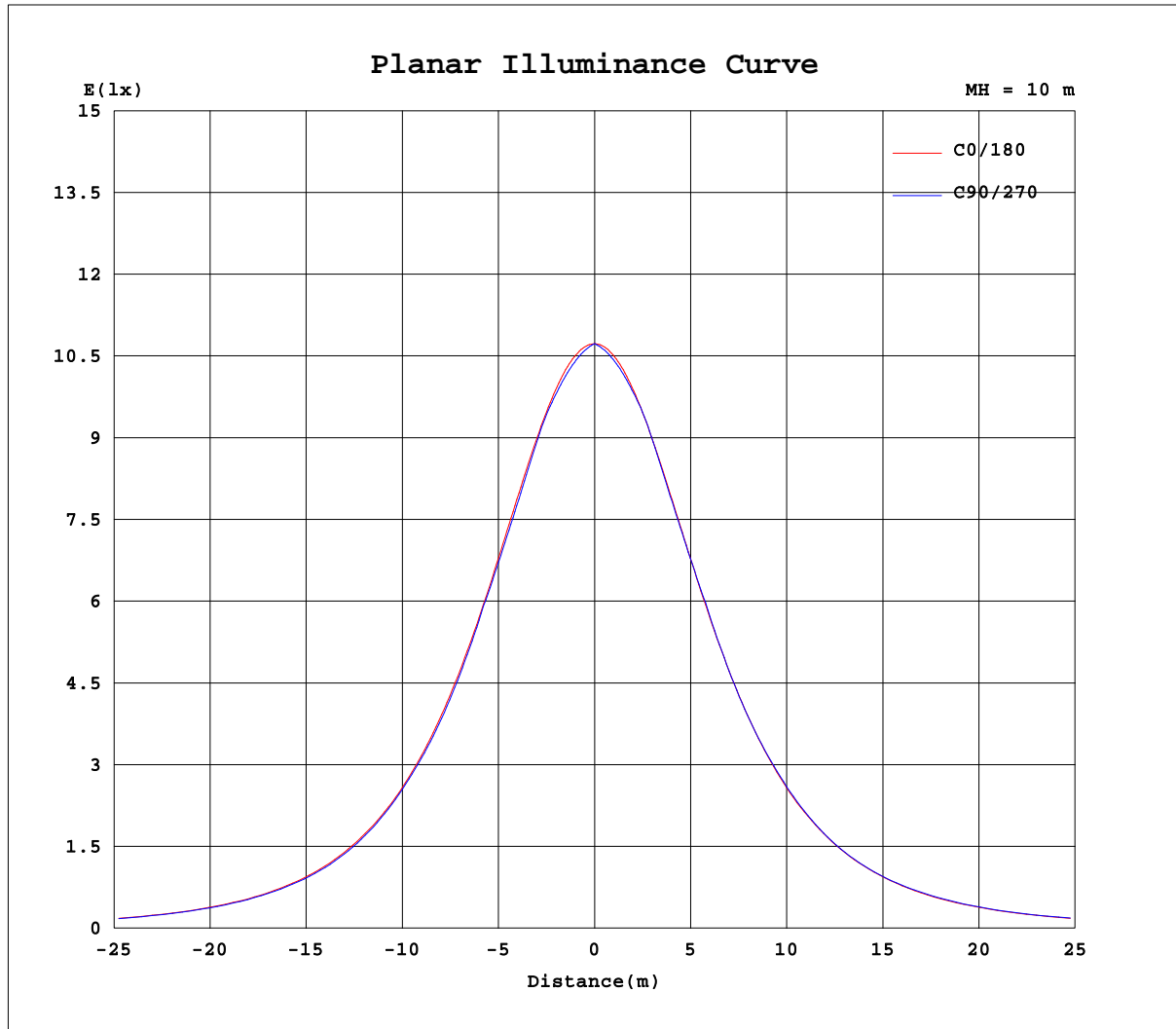
AvgL	cd/m2
L_0~180(65)av	3089
L_0~180(75)av	2854
L_0~180(85)av	1786
L_90~270(65)av	3082
L_90~270(75)av	2877
L_90~270(85)av	2368
L_45(65)av	3076
L_45(75)av	2870
L_45(85)av	2366

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 22DEG  
 Operators: HUA  
 Test Date: 2017-12-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 43%  
 Test Distance: 12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	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	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073
5	1068	1067	1066	1065	1064	1063	1062	1062	1061	1061	1060	1060	1059	1059	1059	1059	1059	1059	1059
10	1055	1053	1051	1049	1048	1046	1045	1045	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044
15	1033	1030	1027	1025	1024	1023	1022	1022	1023	1023	1024	1025	1027	1027	1028	1028	1028	1028	1028
20	1002	998	995	993	992	992	993	995	997	998	998	996	994	993	992	991	991	990	990
25	963	958	955	954	954	955	958	959	958	955	953	952	951	950	950	950	950	950	950
30	916	911	908	907	909	912	912	908	906	905	904	905	906	907	908	909	910	910	910
35	861	855	853	854	857	857	853	851	850	852	854	856	854	852	850	849	849	848	848
40	799	793	792	795	797	792	790	790	793	794	791	788	787	786	786	786	786	786	786
45	731	725	725	729	725	722	723	727	723	721	720	719	720	721	722	723	722	722	722
50	657	651	652	653	649	650	652	649	647	647	648	650	650	648	646	645	644	644	644
55	578	572	576	572	571	574	569	569	571	572	570	568	566	565	565	565	564	564	564
60	494	489	492	488	491	487	487	489	487	485	484	484	483	483	484	484	484	484	484
65	407	403	403	404	401	402	403	400	399	399	400	400	399	399	398	397	397	397	397
70	318	317	315	315	316	314	313	313	314	313	313	312	312	311	311	310	310	310	309
75	230	229	228	229	227	227	227	227	226	226	226	225	225	225	224	224	224	223	223
80	145	135	133	139	143	143	143	142	141	140	140	139	139	140	139	139	139	139	138
85	49.7	42.9	49.0	57.7	61.7	62.4	62.2	61.7	60.9	60.2	59.3	58.4	58.0	57.4	56.6	56.2	56.0	56.0	56.0
90	0.75	1.57	1.52	1.50	1.49	1.65	2.17	2.49	2.62	2.90	2.97	3.06	3.18	3.25	3.26	3.44	3.66	3.89	4.00
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:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	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	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073
5	1059	1059	1059	1059	1059	1059	1060	1060	1060	1061	1061	1062	1063	1064	1065	1066	1067	1068	1067
10	1044	1044	1044	1044	1044	1043	1043	1043	1043	1044	1044	1045	1046	1047	1048	1050	1052	1054	1052
15	1027	1027	1027	1027	1027	1025	1024	1023	1022	1021	1021	1021	1021	1022	1024	1026	1029	1032	1029
20	990	990	991	991	992	993	995	996	996	995	992	991	990	990	991	993	997	1001	997
25	950	950	950	949	949	949	950	951	953	955	956	955	952	951	951	953	956	962	957
30	910	910	908	907	906	904	903	902	902	903	905	909	909	905	904	905	908	914	909
35	848	848	849	850	851	853	855	852	850	848	848	850	853	854	850	850	853	860	854
40	786	785	785	785	785	785	787	789	792	791	788	787	788	793	791	789	791	798	792
45	722	722	721	720	719	718	717	717	718	721	725	721	719	721	725	721	722	729	723
50	644	644	644	645	646	647	647	645	644	644	646	650	648	646	649	649	648	655	649
55	564	564	564	564	564	564	565	567	569	567	566	567	572	569	568	572	569	576	571
60	484	484	483	483	482	482	482	482	483	484	486	484	484	489	485	488	486	492	488
65	397	397	397	397	397	398	399	398	397	397	398	400	399	399	402	400	401	405	402
70	309	309	309	310	310	310	311	311	311	312	311	311	312	313	312	313	315	317	316
75	223	223	223	224	224	224	224	224	224	224	224	225	225	224	226	226	226	229	228
80	138	138	139	139	139	138	138	138	139	139	139	140	140	140	136	130	131	145	144
85	55.9	55.8	55.8	56.1	56.5	56.8	57.3	57.9	58.6	59.4	59.9	60.2	60.0	58.9	54.8	47.0	38.7	47.1	56.9
90	3.89	3.60	3.27	3.00	2.77	2.54	2.39	2.17	1.98	1.94	1.68	1.47	1.46	1.46	1.47	1.46	1.46	1.32	0.90
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:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	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	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073
5	1066	1065	1064	1064	1063	1062	1062	1061	1061	1061	1061	1060	1060	1060	1060	1060	1060	1060	1060
10	1050	1049	1048	1047	1046	1046	1046	1046	1046	1046	1046	1047	1047	1047	1048	1048	1048	1048	1047
15	1027	1025	1024	1023	1023	1024	1025	1026	1027	1028	1030	1031	1032	1032	1032	1032	1032	1032	1033
20	995	993	992	993	994	996	999	1001	1001	1000	999	998	997	997	997	997	997	997	997
25	954	953	954	956	959	961	960	958	957	957	957	957	957	958	958	959	959	959	959
30	907	907	909	913	914	911	910	909	910	911	913	915	917	918	920	920	921	920	920
35	852	853	858	858	855	855	856	858	861	864	863	861	860	860	860	860	860	860	860
40	791	794	797	794	793	795	799	801	799	797	797	797	797	797	798	798	799	799	798
45	723	728	726	725	728	734	730	728	728	729	730	732	734	735	735	736	736	736	736
50	651	653	651	654	658	655	654	655	657	659	660	659	659	659	658	658	659	659	659
55	575	572	574	578	575	575	577	580	579	578	578	578	578	579	579	579	580	580	580
60	491	490	494	491	492	495	495	494	494	495	496	497	498	499	500	500	500	500	500
65	403	407	405	407	408	407	408	409	411	412	412	412	413	413	413	413	413	414	414
70	316	317	319	319	319	321	323	323	324	324	325	325	325	326	326	326	326	327	327
75	229	230	230	232	234	234	235	236	237	237	238	239	239	239	240	240	240	240	240
80	145	146	147	148	149	149	150	151	151	152	153	154	154	154	155	155	155	155	155
85	57.6	60.8	65.0	66.8	67.8	68.3	68.7	68.7	69.0	69.4	69.8	70.3	70.7	71.2	71.9	72.4	72.4	72.1	71.5
90	0.91	0.92	1.22	2.89	3.85	4.70	5.43	5.96	6.76	7.55	8.34	9.10	9.85	10.6	11.3	11.8	11.8	11.5	10.9
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:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2213A P:26.24W PF:0.9862 Lamp Flux:3436.62x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-22D27CC-PRM(5000K)	DIM.: 603x603mm	SERIAL No.:BLD20171213N01
MFR.: ASD Lighting corp	SUR.:0.558*0.558	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	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073				
5	1060	1060	1061	1061	1061	1061	1062	1062	1063	1063	1064	1065	1065	1066	1067				
10	1047	1047	1047	1047	1047	1046	1046	1046	1047	1047	1048	1049	1050	1051	1053				
15	1033	1033	1032	1031	1029	1028	1027	1026	1025	1025	1025	1025	1026	1028	1030				
20	998	998	999	1000	1001	1002	1002	1001	998	996	995	994	994	996	999				
25	958	958	958	958	958	959	960	963	963	962	958	956	955	956	959				
30	919	917	916	914	912	911	911	912	913	917	916	912	909	909	911				
35	860	861	862	864	865	862	859	857	857	858	861	861	856	854	856				
40	798	798	798	798	799	800	803	801	797	795	796	801	797	794	794				
45	736	735	733	732	730	730	730	732	735	730	727	729	732	727	726				
50	659	660	661	662	662	659	657	656	656	659	656	654	657	655	652				
55	579	579	579	580	580	581	583	580	577	577	580	576	576	579	573				
60	500	499	498	497	497	496	497	497	498	495	493	496	492	494	490				
65	414	414	414	414	414	413	411	410	410	411	409	407	408	405	405				
70	327	327	327	327	326	326	325	325	323	321	321	321	318	317	318				
75	241	241	241	240	240	239	238	237	236	235	234	233	233	231	230				
80	155	155	155	154	153	152	152	151	151	150	150	149	147	147	145				
85	70.9	70.4	70.1	69.8	69.5	69.3	69.0	68.8	68.6	68.3	67.4	65.6	60.8	57.2	56.9				
90	10.0	9.26	8.56	7.87	7.30	6.60	5.81	4.91	4.16	3.22	1.80	0.89	0.88	0.88	0.88				
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:22DEG  
 Operators:HUA  
 Test Date:2017-12-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:43%  
 Test Distance:12.218m [K=1.0000]  
 Remarks: