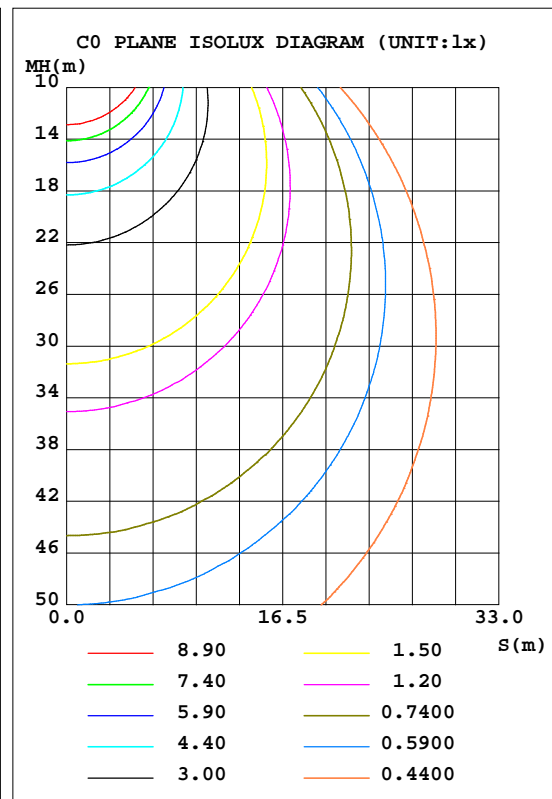
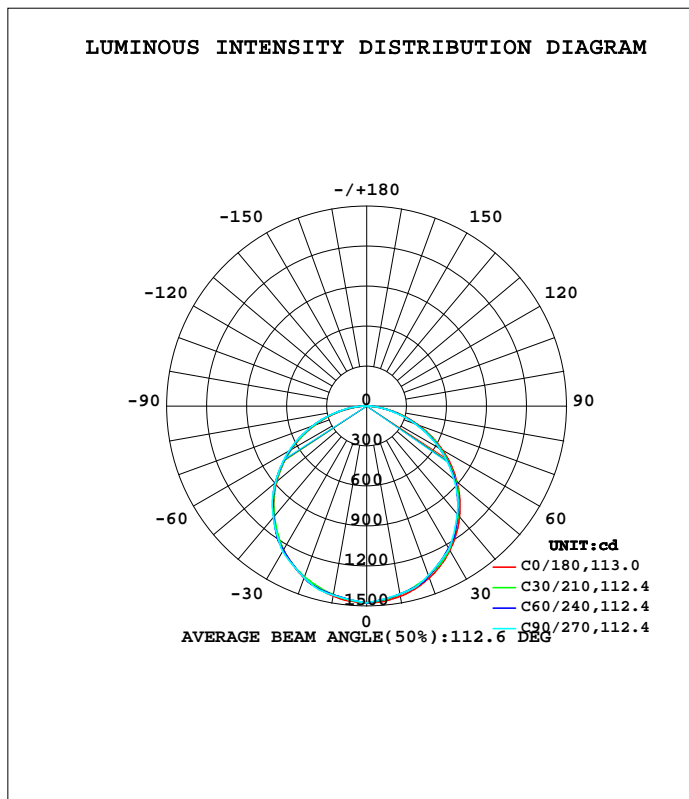


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.44 lm/W			
MODELASD-ELP01-24D3240-PRM		I <sub>max</sub> (cd)	1476	S/MH(C0/180)	1.26
NOMINAL POWER(W)	32	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4218.1	η UP, DN(C0-180)	0.0,49.2
NOMINAL FLUX(lm)	4218.1	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.8
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:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 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	1470	1457	1454	1455	1468	1458	1458	1460	0- 5	35.03	35.03	0.83,0.83
10	1449	1432	1432	1432	1447	1438	1441	1437	5- 10	103.6	138.6	3.29,3.29
15	1418	1401	1406	1400	1416	1408	1420	1410	10- 15	168.8	307.4	7.29,7.29
20	1372	1364	1352	1360	1372	1374	1370	1375	15- 20	228.5	535.9	12.7,12.7
25	1316	1301	1295	1299	1314	1313	1315	1315	20- 25	279.9	815.8	19.3,19.3
30	1249	1229	1237	1227	1247	1244	1261	1246	25- 30	322.3	1138	27,27
35	1170	1154	1148	1151	1170	1172	1176	1173	30- 35	354.2	1492	35.4,35.4
40	1084	1071	1059	1070	1083	1092	1090	1094	35- 40	373.5	1866	44.2,44.2
45	988.1	968.8	966.9	965.4	986.2	989.7	1002	991.7	40- 45	380.8	2247	53.3,53.3
50	883.7	864.2	856.6	861.4	881.7	886.7	894.8	889.2	45- 50	375.7	2622	62.2,62.2
55	773.4	758.6	744.0	754.8	771.6	781.8	785.1	785.4	50- 55	357.4	2980	70.6,70.6
60	655.8	637.2	631.5	632.9	654.9	661.8	675.5	664.8	55- 60	327.5	3307	78.4,78.4
65	533.9	516.0	506.8	512.6	533.6	543.0	552.4	545.1	60- 65	287.0	3594	85.2,85.2
70	409.7	395.0	383.2	391.3	409.4	422.8	429.6	423.7	65- 70	236.9	3831	90.8,90.8
75	288.0	274.5	264.0	270.9	288.1	301.4	307.6	301.8	70- 75	180.6	4012	95.1,95.1
80	167.2	163.5	156.5	160.1	163.8	187.2	194.0	186.6	75- 80	121.2	4133	98,98
85	54.58	71.56	66.52	68.55	52.25	87.36	93.00	86.37	80- 85	65.73	4199	99.5,99.5
90	0.9723	6.585	7.252	5.268	2.007	10.55	16.76	10.06	85- 90	18.62	4217	100,100
95	0	0	0	0	0	0	0	0	90- 95	0.8692	4218	100,100
100	0	0	0	0	0	0	0	0	95-100	0	4218	100,100
105	0	0	0	0	0	0	0	0	100-105	0	4218	100,100
110	0	0	0	0	0	0	0	0	105-110	0	4218	100,100
115	0	0	0	0	0	0	0	0	110-115	0	4218	100,100
120	0	0	0	0	0	0	0	0	115-120	0	4218	100,100
125	0	0	0	0	0	0	0	0	120-125	0	4218	100,100
130	0	0	0	0	0	0	0	0	125-130	0	4218	100,100
135	0	0	0	0	0	0	0	0	130-135	0	4218	100,100
140	0	0	0	0	0	0	0	0	135-140	0	4218	100,100
145	0	0	0	0	0	0	0	0	140-145	0	4218	100,100
150	0	0	0	0	0	0	0	0	145-150	0	4218	100,100
155	0	0	0	0	0	0	0	0	150-155	0	4218	100,100
160	0	0	0	0	0	0	0	0	155-160	0	4218	100,100
165	0	0	0	0	0	0	0	0	160-165	0	4218	100,100
170	0	0	0	0	0	0	0	0	165-170	0	4218	100,100
175	0	0	0	0	0	0	0	0	170-175	0	4218	100,100
180	0	0	0	0	0	0	0	0	175-180	0	4218	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 2246.5 lm

%lum = 53.3%  
%lamp = 53.3%

Conical surface Flux(120deg): 3307.1 lm

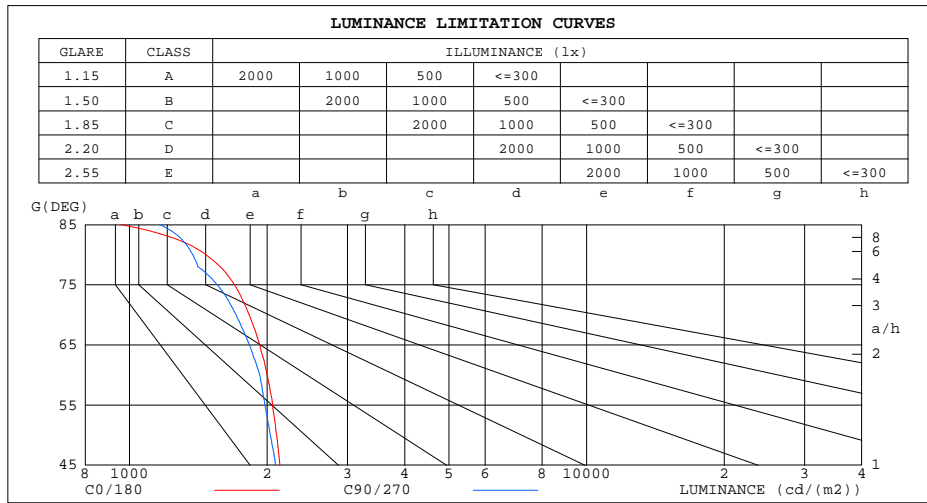
%lum = 78.4%  
%lamp = 78.4%

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:HUA  
Test Date:2018-09-26

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
Humidity:52%  
Test Distance:12.218m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	956	1165
80	1470	1376
75	1698	1557
70	1828	1710
65	1928	1830
60	2002	1928
55	2058	1980
50	2098	2034
45	2133	2087

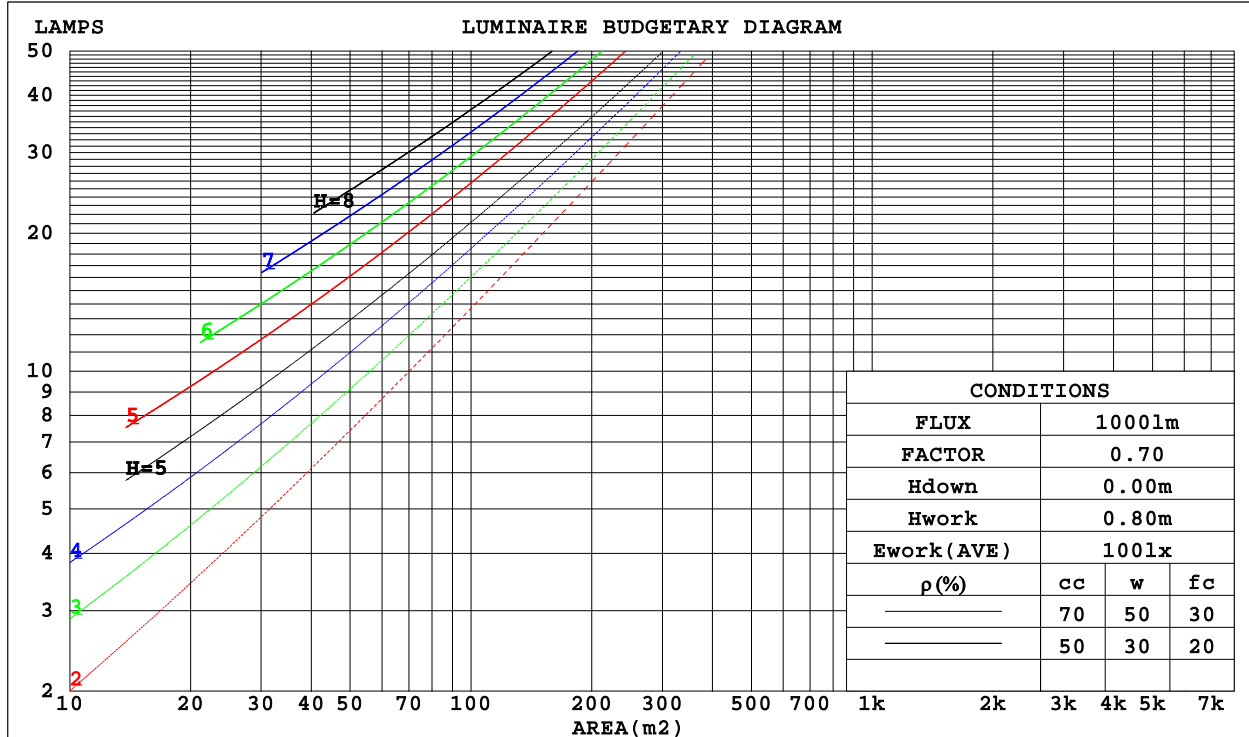
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	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	.95	1.01	.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	.58	.52	.62	.56	.52	.50
5.0	.63	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	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 Coefficients(WEC)									
0.0																
1.0	.312	.178	.056	.305	.174	.055	.292	.167	.053	.280	.161	.052	.268	.156	.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	.255	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.228	.122	.037	.220	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021	

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.116	.106	.092	.080	.061	.053	.046	.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	.079	.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	.076	.033	.117	.065	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.023	.101	.053	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm										
NAME: ASD Lighting corp					TYPE:LED PANEL			WEIGHT:		
SPEC.:ASD-ELP01-24D3240-PRM					DIM.: 2X4			SERIAL No.:BLD20180926N01		
MFR.: ASD Lighting corp					SUR.:0.56*1.17			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	15.3	16.9	15.6	17.1	17.3	15.2	16.7	15.5	16.9	17.1
3H	16.9	18.3	17.2	18.5	18.7	16.6	18.1	16.9	18.3	18.5
4H	17.4	18.8	17.8	19.0	19.3	17.2	18.6	17.5	18.8	19.1
6H	17.8	19.1	18.1	19.3	19.6	17.6	18.9	17.9	19.1	19.4
8H	17.9	19.1	18.2	19.4	19.7	17.7	18.9	18.1	19.2	19.5
12H	17.9	19.1	18.3	19.4	19.7	17.8	19.0	18.1	19.3	19.6
4H 2H	15.9	17.3	16.2	17.5	17.8	15.8	17.1	16.1	17.4	17.7
3H	17.6	18.8	18.0	19.1	19.4	17.4	18.6	17.8	18.9	19.2
4H	18.3	19.4	18.7	19.7	20.1	18.1	19.2	18.5	19.5	19.9
6H	18.8	19.8	19.2	20.1	20.5	18.6	19.6	19.0	19.9	20.3
8H	18.9	19.8	19.4	20.2	20.6	18.8	19.7	19.2	20.1	20.5
12H	19.0	19.8	19.4	20.2	20.6	18.9	19.8	19.4	20.1	20.5
8H 4H	18.6	19.5	19.0	19.8	20.2	18.4	19.3	18.8	19.7	20.0
6H	19.2	20.0	19.7	20.4	20.8	19.0	19.8	19.5	20.2	20.6
8H	19.4	20.1	19.9	20.5	21.0	19.3	20.0	19.8	20.4	20.8
12H	19.6	20.1	20.0	20.6	21.1	19.5	20.1	20.0	20.5	21.0
12H 4H	18.6	19.4	19.0	19.8	20.2	18.4	19.2	18.8	19.6	20.0
6H	19.3	19.9	19.7	20.3	20.8	19.1	19.8	19.6	20.2	20.6
8H	19.5	20.1	20.0	20.5	21.0	19.4	20.0	19.9	20.4	20.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

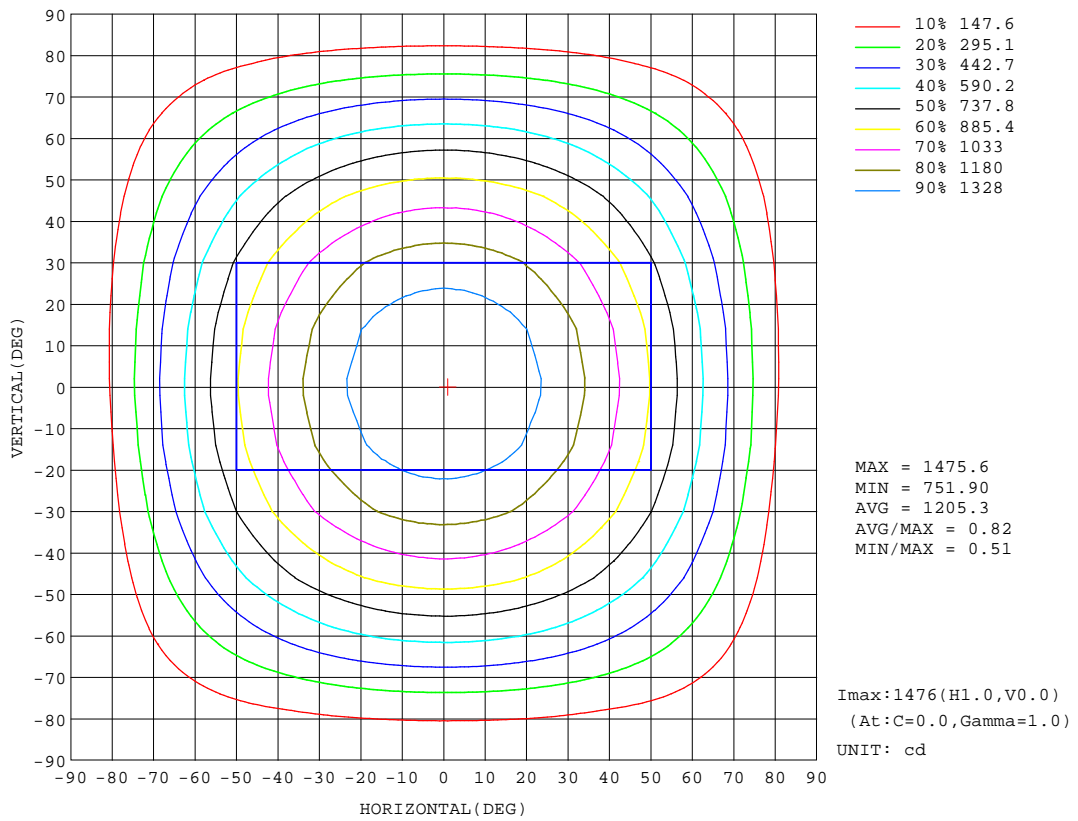
CIE Pub.117 Corrected 4218 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	Shielding Angle:



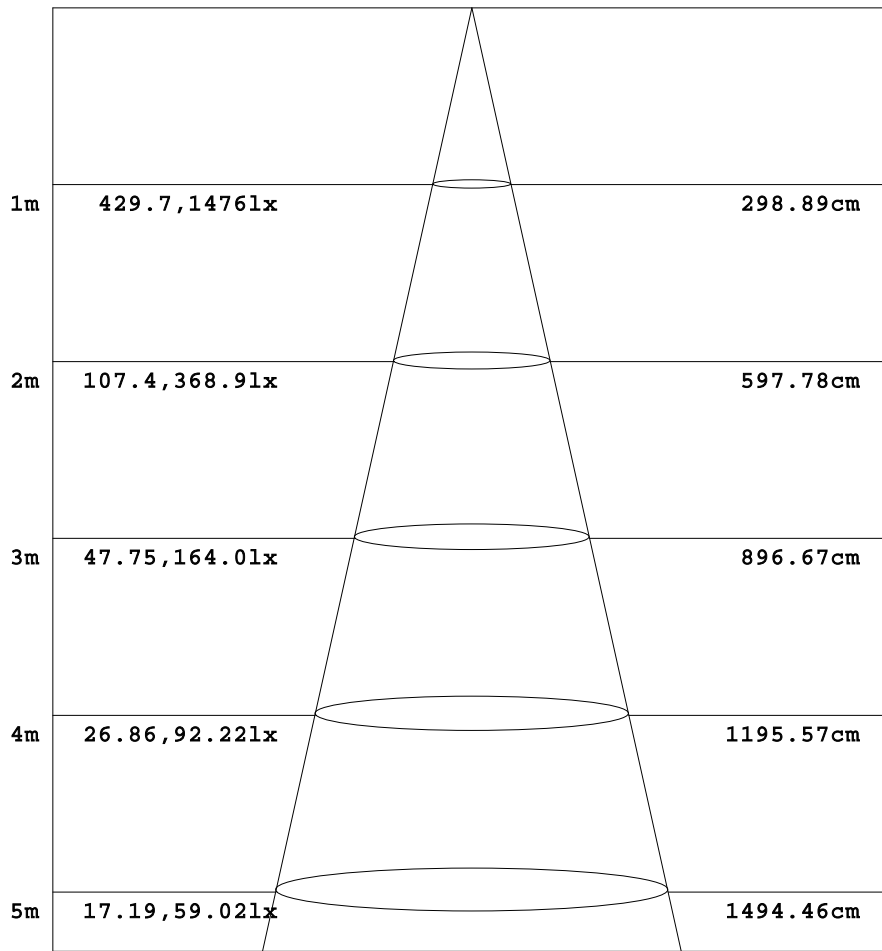
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	Shielding Angle:

Flux out:3082 lm



Height                      Eavg, Emax                      Angle: 112.42deg                      Diameter

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

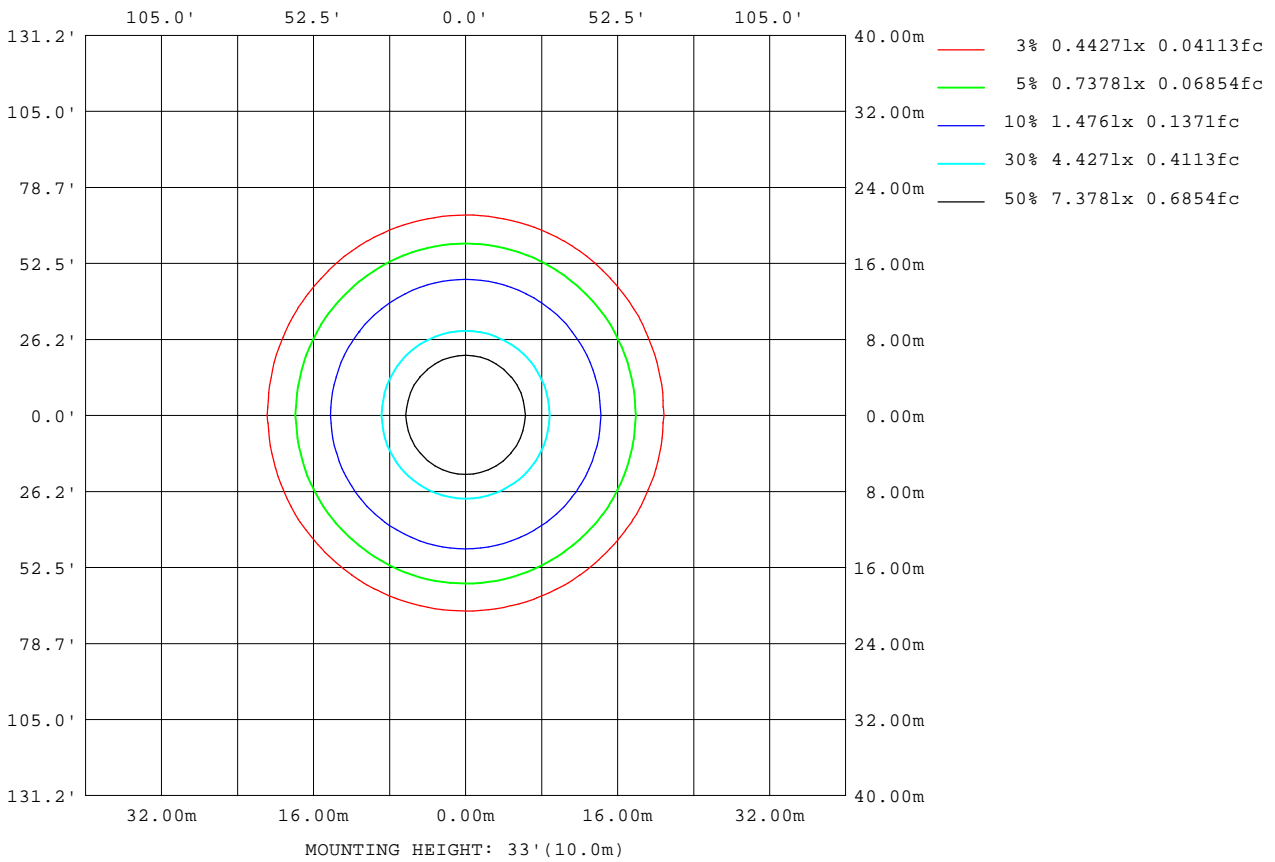
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 30DEG  
 Operators: HUA  
 Test Date: 2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 52%  
 Test Distance: 12.218m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	Shielding Angle:

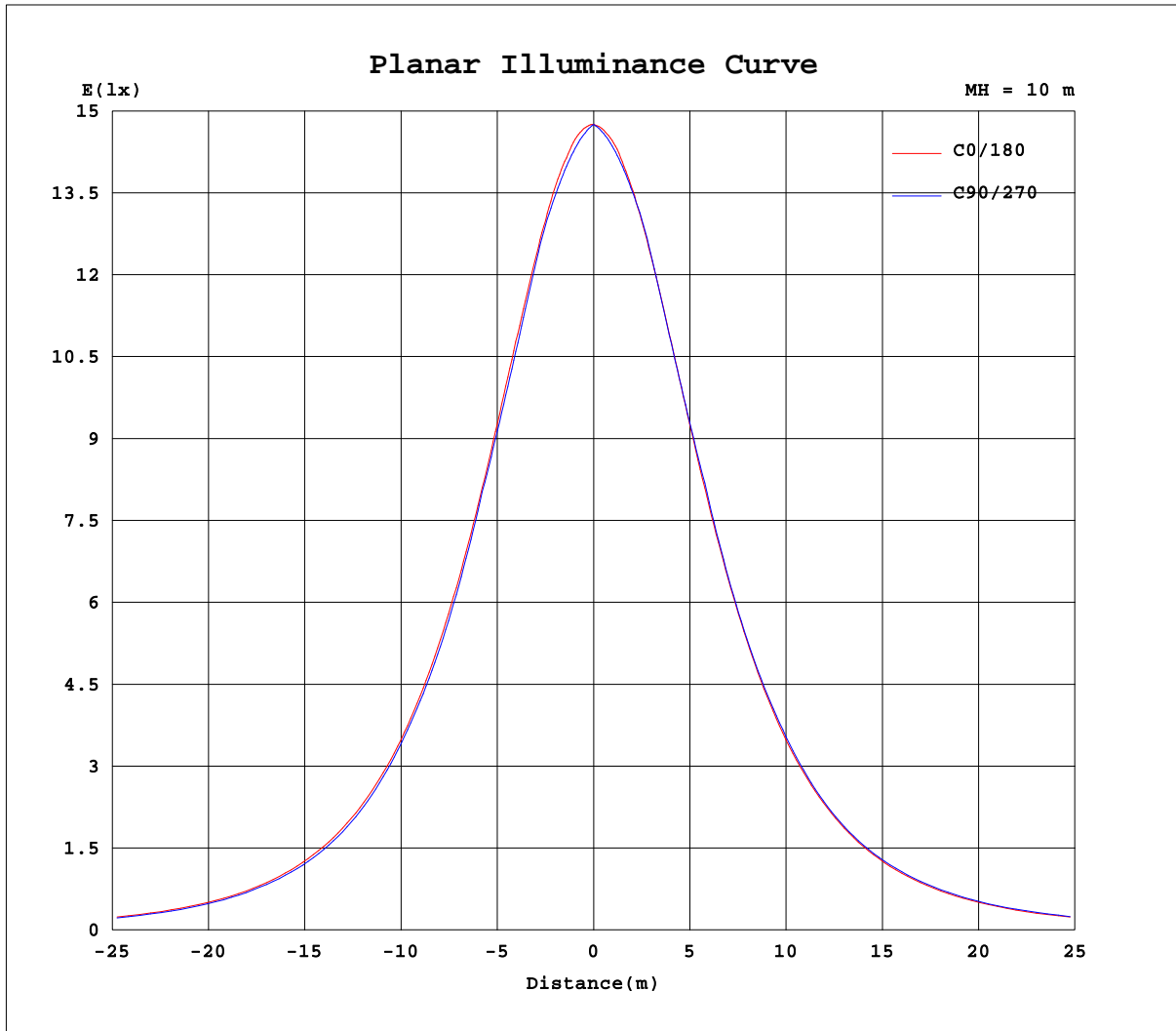
AvgL	cd/m2
L_0~180(65)av	1928
L_0~180(75)av	1699
L_0~180(85)av	935
L_90~270(65)av	1913
L_90~270(75)av	1685
L_90~270(85)av	1397
L_45(65)av	1911
L_45(75)av	1693
L_45(85)av	1374

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:HUA  
Test Date:2018-09-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
Humidity:52%  
Test Distance:12.218m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 30DEG  
 Operators: HUA  
 Test Date: 2018-09-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity: 52%  
 Test Distance: 12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting cor	SUR.:0.56*1.17	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	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476
5	1470	1468	1466	1465	1463	1462	1460	1459	1458	1457	1457	1456	1455	1455	1455	1455	1455	1454	1454
10	1449	1446	1443	1440	1438	1437	1435	1433	1432	1432	1432	1432	1432	1432	1432	1432	1433	1433	1432
15	1418	1413	1408	1405	1402	1401	1400	1400	1401	1401	1403	1405	1406	1407	1407	1408	1407	1408	1406
20	1372	1365	1360	1357	1356	1356	1357	1359	1362	1364	1363	1361	1358	1357	1355	1353	1353	1353	1352
25	1316	1309	1304	1302	1301	1303	1306	1308	1305	1301	1298	1297	1295	1295	1295	1294	1294	1295	1295
30	1249	1240	1235	1234	1236	1241	1240	1235	1231	1229	1229	1229	1231	1231	1233	1234	1236	1237	1237
35	1170	1161	1158	1158	1164	1163	1156	1152	1152	1154	1157	1161	1156	1153	1151	1149	1148	1148	1148
40	1084	1075	1072	1076	1079	1071	1067	1067	1070	1071	1067	1064	1062	1060	1060	1059	1059	1058	1059
45	988	979	978	983	977	973	974	978	972	969	966	965	965	967	967	968	967	967	967
50	884	875	877	878	872	872	875	868	865	864	866	867	867	862	860	859	858	857	857
55	773	765	770	764	762	765	759	757	758	759	755	751	749	746	746	745	744	744	744
60	656	649	652	646	649	643	643	645	641	637	635	633	632	631	631	631	631	631	631
65	534	529	527	529	524	524	524	520	517	516	516	515	513	512	510	508	507	507	507
70	410	408	403	400	400	399	398	398	398	395	393	391	389	387	386	385	384	383	383
75	288	281	272	272	273	275	277	278	276	274	273	272	271	269	268	266	265	264	264
80	167	149	150	154	159	163	165	166	165	164	161	158	158	158	158	158	157	157	157
85	54.6	52.2	56.8	61.6	65.3	66.8	69.5	70.9	71.5	71.6	71.1	70.3	69.6	69.0	68.3	67.6	67.1	66.7	66.5
90	0.97	3.03	3.33	3.78	4.36	4.99	5.51	5.92	6.30	6.59	6.81	6.99	7.11	7.17	7.18	7.18	7.25	7.25	7.25
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:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	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	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476
5	1453	1453	1454	1454	1454	1454	1454	1455	1455	1456	1457	1458	1460	1461	1463	1464	1466	1468	1467
10	1432	1432	1431	1431	1431	1432	1432	1431	1432	1432	1432	1433	1434	1436	1438	1441	1444	1447	1444
15	1407	1407	1407	1408	1407	1405	1403	1402	1400	1399	1399	1398	1399	1401	1404	1407	1411	1416	1412
20	1353	1353	1355	1354	1356	1359	1360	1361	1360	1361	1357	1356	1354	1355	1357	1360	1365	1372	1367
25	1295	1294	1295	1294	1294	1294	1294	1297	1299	1303	1305	1303	1300	1298	1298	1301	1306	1314	1308
30	1236	1235	1233	1233	1230	1229	1228	1227	1227	1229	1232	1238	1238	1234	1232	1233	1238	1247	1240
35	1147	1149	1149	1150	1152	1155	1158	1155	1151	1150	1151	1153	1160	1161	1156	1155	1160	1170	1162
40	1058	1058	1058	1058	1058	1059	1062	1064	1070	1068	1065	1064	1066	1074	1072	1068	1072	1083	1075
45	967	966	967	965	964	964	963	964	965	971	976	972	970	973	979	974	976	986	978
50	857	856	858	859	861	863	864	862	861	862	866	872	869	868	872	873	872	882	875
55	744	743	744	744	745	746	748	751	755	754	752	755	762	759	759	765	762	772	765
60	631	630	630	630	630	630	630	630	633	636	639	639	640	648	643	648	646	655	649
65	506	506	507	508	509	511	512	512	513	513	516	519	519	519	524	523	527	534	530
70	383	383	383	384	384	386	388	389	391	394	394	393	394	393	392	395	403	409	409
75	264	264	265	266	267	268	269	270	271	272	274	273	271	268	265	265	271	288	287
80	156	156	156	156	156	155	156	158	160	162	162	161	158	155	150	143	143	164	170
85	66.4	66.4	66.3	66.5	66.8	67.3	67.8	68.4	68.5	68.5	68.0	66.6	64.0	62.2	58.2	52.9	46.7	52.3	66.5
90	7.13	6.95	6.67	6.39	6.17	5.98	5.76	5.53	5.27	5.00	4.76	4.45	4.03	3.58	3.13	2.73	2.57	2.01	1.21
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:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	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	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476
5	1465	1464	1462	1461	1460	1459	1458	1458	1458	1458	1457	1457	1457	1457	1458	1458	1458	1458	1458
10	1442	1440	1439	1438	1437	1436	1437	1438	1438	1438	1439	1438	1438	1439	1440	1440	1441	1441	1440
15	1409	1407	1406	1405	1404	1405	1407	1408	1411	1413	1415	1418	1419	1418	1419	1419	1420	1419	1418
20	1363	1360	1360	1361	1364	1366	1369	1374	1373	1373	1371	1370	1370	1370	1368	1369	1370	1369	1369
25	1304	1304	1305	1308	1313	1317	1315	1313	1311	1312	1312	1312	1312	1314	1314	1315	1315	1315	1315
30	1237	1238	1242	1247	1250	1246	1243	1244	1244	1248	1250	1253	1255	1257	1260	1260	1261	1260	1260
35	1160	1162	1169	1170	1167	1166	1168	1172	1176	1181	1180	1177	1177	1175	1176	1175	1176	1175	1176
40	1073	1079	1083	1079	1079	1082	1088	1092	1089	1087	1086	1087	1088	1088	1090	1090	1090	1090	1090
45	979	986	984	983	988	995	991	990	990	992	994	996	999	1001	1002	1002	1002	1003	1003
50	878	881	879	884	890	886	885	887	890	894	896	895	895	895	895	895	895	895	895
55	771	769	771	777	773	774	779	782	781	781	782	782	783	784	784	785	785	786	785
60	654	652	660	656	658	662	663	662	663	665	667	669	671	673	674	675	675	676	675
65	531	536	535	538	540	540	541	543	546	550	550	550	552	551	551	552	552	552	552
70	409	411	414	415	416	419	422	423	424	425	426	427	428	429	429	429	430	429	429
75	289	291	292	295	297	299	300	301	303	304	305	307	307	307	308	308	308	308	308
80	172	174	176	178	181	184	186	187	188	188	189	191	192	193	194	194	194	194	194
85	66.8	68.8	73.4	76.2	79.8	82.7	85.2	87.4	88.9	90.0	90.9	91.6	92.1	92.5	93.0	93.1	93.0	92.8	92.5
90	1.22	1.73	2.98	4.44	6.02	7.57	9.11	10.5	11.9	13.0	14.0	14.7	15.4	16.0	16.5	16.8	16.8	16.6	16.2
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:30DEG  
 Operators:HUA  
 Test Date:2018-09-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
 Humidity:52%  
 Test Distance:12.218m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.2662A P:31.61W PF:0.9886 Lamp Flux:4218.1x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.:ASD-ELP01-24D3240-PRM	DIM.: 2X4	SERIAL No.:BLD20180926N01
MFR.: ASD Lighting corp	SUR.:0.56*1.17	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	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476	1476				
5	1458	1458	1458	1459	1459	1460	1460	1461	1462	1463	1464	1465	1466	1467	1469				
10	1439	1440	1440	1440	1439	1438	1437	1437	1437	1438	1440	1441	1442	1444	1447				
15	1420	1421	1418	1416	1414	1412	1410	1409	1407	1406	1405	1406	1407	1410	1414				
20	1371	1370	1371	1373	1374	1375	1375	1372	1368	1365	1363	1361	1361	1363	1367				
25	1314	1313	1313	1313	1313	1314	1315	1318	1320	1317	1311	1308	1307	1307	1311				
30	1257	1256	1253	1251	1248	1247	1246	1246	1248	1252	1250	1244	1240	1239	1242				
35	1176	1177	1179	1180	1182	1177	1173	1169	1168	1169	1174	1172	1164	1161	1163				
40	1089	1089	1088	1089	1089	1091	1094	1090	1084	1081	1081	1088	1082	1076	1077				
45	1002	1000	998	995	993	992	992	994	997	989	985	987	991	983	981				
50	896	896	898	898	897	893	889	887	887	891	886	882	886	882	878				
55	784	784	783	783	782	785	785	781	777	776	779	773	772	775	767				
60	673	672	670	668	667	665	665	666	666	661	658	661	654	658	651				
65	552	551	551	551	551	548	545	542	542	543	539	535	537	533	531				
70	429	428	428	426	426	425	424	423	420	417	416	415	411	409	410				
75	307	307	307	306	305	303	302	300	299	298	295	292	292	289	288				
80	193	192	190	189	187	187	187	186	184	180	177	176	173	173	170				
85	91.9	91.4	90.7	90.0	89.0	87.9	86.4	84.4	82.1	79.4	76.1	73.4	68.9	66.7	66.6				
90	15.6	14.9	14.3	13.5	12.5	11.3	10.1	8.68	7.25	5.78	4.32	3.01	1.71	1.16	1.15				
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:30DEG  
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γ Range: 0 - 180DEG  
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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.350  
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 Remarks: