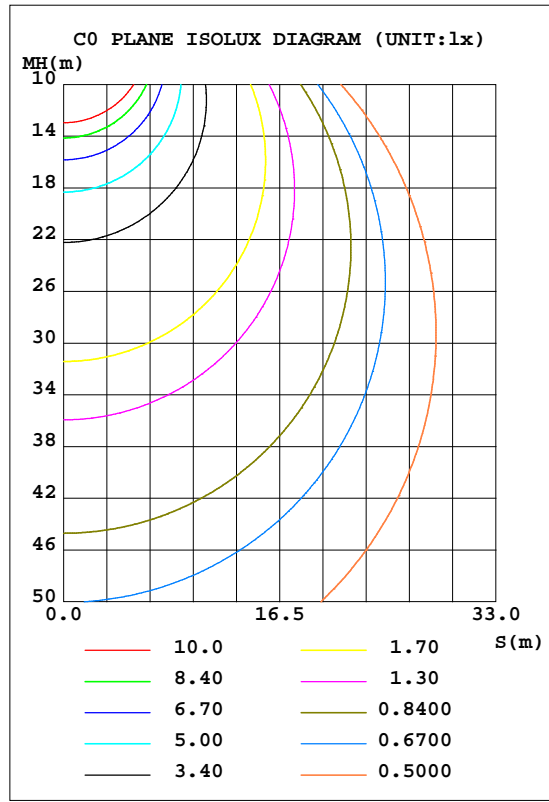
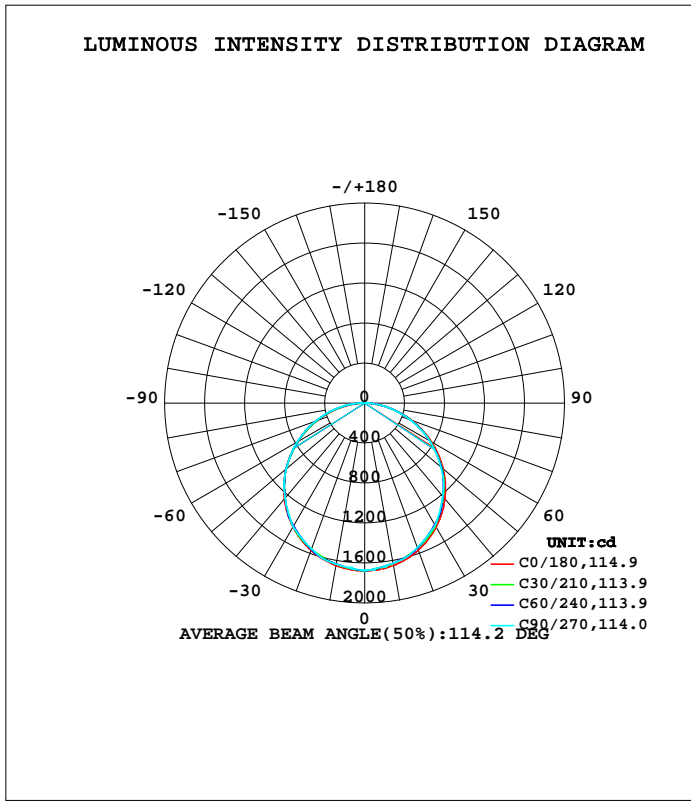


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.02 lm/W			
MODEL		I _{max} (cd)	1679	S/MH(C0/180)	1.27
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)		TOTAL FLUX(lm)	4914.6	η UP, DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	4914.61	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.6
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	1671	1657	1653	1657	1672	1660	1658	1660	0- 5	39.85	39.85	0.81,0.81
10	1650	1628	1627	1629	1651	1635	1636	1635	5- 10	117.8	157.7	3.21,3.21
15	1615	1593	1598	1594	1616	1604	1611	1602	10- 15	192.0	349.7	7.11,7.11
20	1567	1550	1539	1551	1568	1564	1554	1563	15- 20	260.0	609.7	12.4,12.4
25	1505	1482	1475	1483	1507	1497	1493	1496	20- 25	318.9	928.6	18.9,18.9
30	1432	1403	1412	1404	1433	1419	1431	1418	25- 30	367.7	1296	26.4,26.4
35	1346	1320	1315	1321	1348	1337	1336	1336	30- 35	404.8	1701	34.6,34.6
40	1249	1230	1217	1231	1251	1248	1241	1247	35- 40	427.8	2129	43.3,43.3
45	1142	1116	1117	1116	1145	1135	1143	1133	40- 45	437.4	2566	52.2,52.2
50	1025	1001	996.0	1001	1029	1021	1024	1019	45- 50	433.0	2999	61,61
55	901.3	884.0	872.5	883.2	904.2	904.0	903.2	902.2	50- 55	413.9	3413	69.4,69.4
60	770.3	750.4	749.0	750.1	773.5	772.0	782.2	770.1	55- 60	382.1	3795	77.2,77.2
65	634.5	618.1	614.1	618.6	637.7	641.5	650.5	639.2	60- 65	338.7	4134	84.1,84.1
70	496.4	485.2	479.7	485.4	498.7	510.0	518.8	507.7	65- 70	284.9	4419	89.9,89.9
75	359.4	350.9	347.0	349.3	361.1	376.5	387.0	374.7	70- 75	223.3	4642	94.5,94.5
80	217.2	219.3	218.4	217.8	215.5	245.7	255.8	243.8	75- 80	156.6	4799	97.6,97.6
85	75.16	98.69	96.04	96.56	73.25	118.3	125.7	115.6	80- 85	88.72	4887	99.4,99.4
90	1.242	9.016	12.48	7.653	2.113	14.80	24.55	13.10	85- 90	25.98	4913	100,100
95	0	0	0	0	0	0	0	0	90- 95	1.210	4915	100,100
100	0	0	0	0	0	0	0	0	95-100	0	4915	100,100
105	0	0	0	0	0	0	0	0	100-105	0	4915	100,100
110	0	0	0	0	0	0	0	0	105-110	0	4915	100,100
115	0	0	0	0	0	0	0	0	110-115	0	4915	100,100
120	0	0	0	0	0	0	0	0	115-120	0	4915	100,100
125	0	0	0	0	0	0	0	0	120-125	0	4915	100,100
130	0	0	0	0	0	0	0	0	125-130	0	4915	100,100
135	0	0	0	0	0	0	0	0	130-135	0	4915	100,100
140	0	0	0	0	0	0	0	0	135-140	0	4915	100,100
145	0	0	0	0	0	0	0	0	140-145	0	4915	100,100
150	0	0	0	0	0	0	0	0	145-150	0	4915	100,100
155	0	0	0	0	0	0	0	0	150-155	0	4915	100,100
160	0	0	0	0	0	0	0	0	155-160	0	4915	100,100
165	0	0	0	0	0	0	0	0	160-165	0	4915	100,100
170	0	0	0	0	0	0	0	0	165-170	0	4915	100,100
175	0	0	0	0	0	0	0	0	170-175	0	4915	100,100
180	0	0	0	0	0	0	0	0	175-180	0	4915	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2566.2 lm

%lum = 52.2%
%lamp = 52.2%

Conical surface Flux(120deg): 3795.2 lm

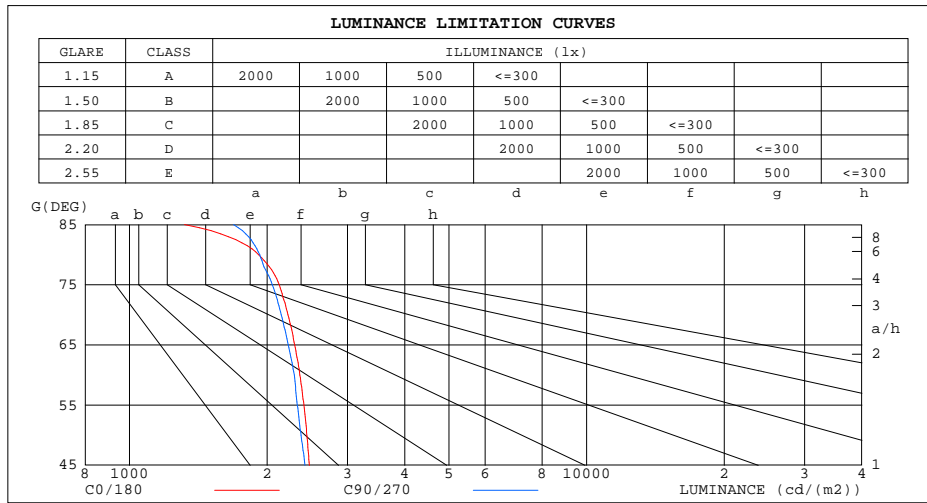
%lum = 77.2%
%lamp = 77.2%

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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1321	1688
80	1916	1927
75	2127	2054
70	2223	2149
65	2300	2226
60	2360	2295
55	2407	2330
50	2444	2374
45	2474	2420

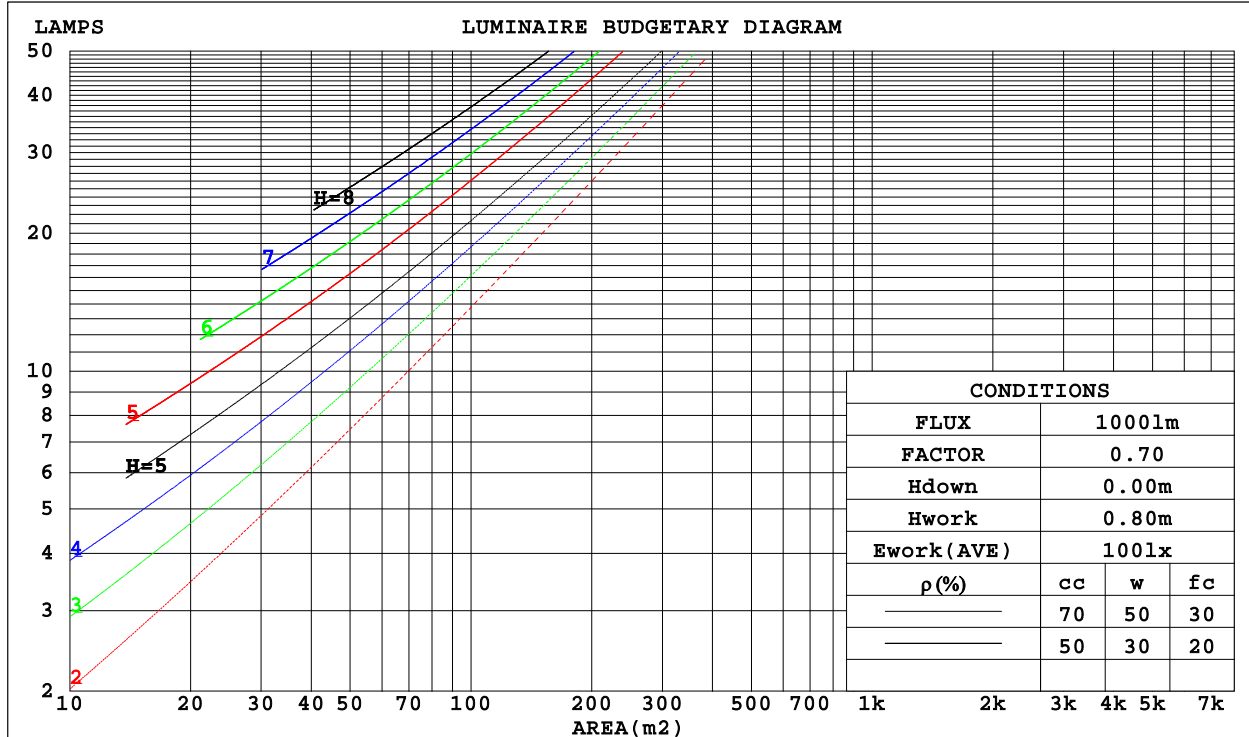
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2017-12-13

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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	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	.93	.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	.65	.61	.69	.64	.60	.57
4.0	.69	.60	.54	.68	.60	.53	.66	.58	.52	.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	.36	.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

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:

WEC AND CCEC

Test:U:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*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	.319	.182	.058	.312	.178	.057	.299	.172	.055	.287	.165	.053	.275	.160	.051	
2.0	.298	.164	.050	.292	.161	.050	.280	.156	.048	.270	.151	.047	.259	.147	.046	
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.137	.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	

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	.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	.115	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.136	.088	.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	.083	.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	.107	.056	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.020	.071	.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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm										
NAME: ASD Lighting corp					TYPE:LED PANEL			WEIGHT:		
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)					DIM.: 1213x603mm			SERIAL No.:BLD20171213A03		
MFR.: ASD Lighting corp					SUR.:0.558*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	15.9	17.4	16.1	17.6	17.8	15.8	17.3	16.1	17.5	17.7
3H	17.5	18.9	17.8	19.1	19.4	17.4	18.8	17.7	19.0	19.3
4H	18.1	19.5	18.4	19.7	20.0	18.0	19.4	18.4	19.7	19.9
6H	18.5	19.8	18.9	20.1	20.4	18.5	19.8	18.9	20.1	20.4
8H	18.7	19.9	19.0	20.2	20.5	18.7	20.0	19.1	20.2	20.5
12H	18.7	19.9	19.1	20.2	20.5	18.8	20.0	19.2	20.3	20.6
4H 2H	16.5	17.8	16.8	18.1	18.4	16.4	17.8	16.7	18.0	18.3
3H	18.3	19.5	18.6	19.8	20.1	18.2	19.4	18.6	19.7	20.0
4H	19.0	20.1	19.4	20.5	20.8	19.0	20.1	19.4	20.4	20.8
6H	19.6	20.6	20.0	20.9	21.3	19.6	20.6	20.0	21.0	21.3
8H	19.8	20.7	20.2	21.0	21.4	19.9	20.8	20.3	21.2	21.5
12H	19.9	20.7	20.3	21.1	21.5	20.0	20.9	20.5	21.3	21.7
8H 4H	19.3	20.3	19.8	20.6	21.0	19.3	20.2	19.7	20.6	21.0
6H	20.1	20.8	20.5	21.2	21.7	20.1	20.9	20.6	21.3	21.7
8H	20.3	21.0	20.8	21.4	21.9	20.4	21.1	20.9	21.5	22.0
12H	20.5	21.1	21.0	21.5	22.0	20.7	21.3	21.2	21.7	22.2
12H 4H	19.4	20.2	19.8	20.6	21.0	19.3	20.2	19.8	20.6	21.0
6H	20.1	20.8	20.6	21.2	21.7	20.2	20.9	20.7	21.3	21.7
8H	20.5	21.0	20.9	21.5	22.0	20.6	21.1	21.0	21.6	22.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

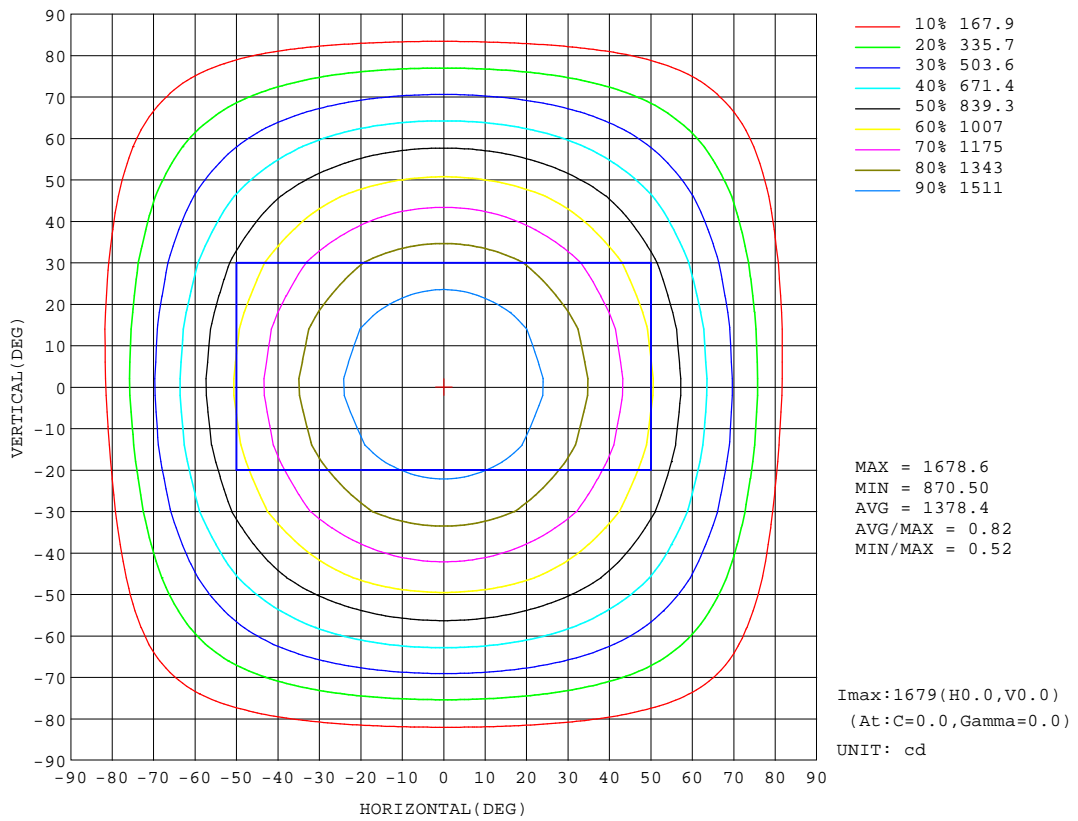
CIE Pub.117 Corrected 4915 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.5)

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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:



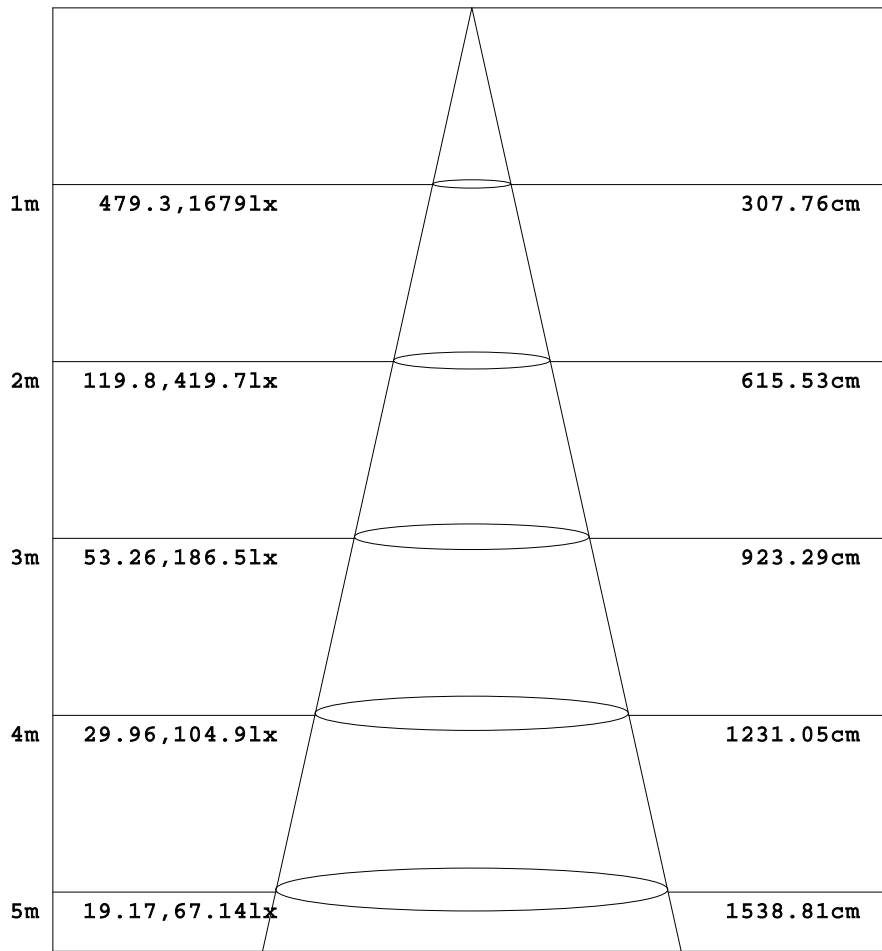
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2017-12-13

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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

Flux out:3570 lm



Height Eavg, Emax Angle:113.96deg Diameter

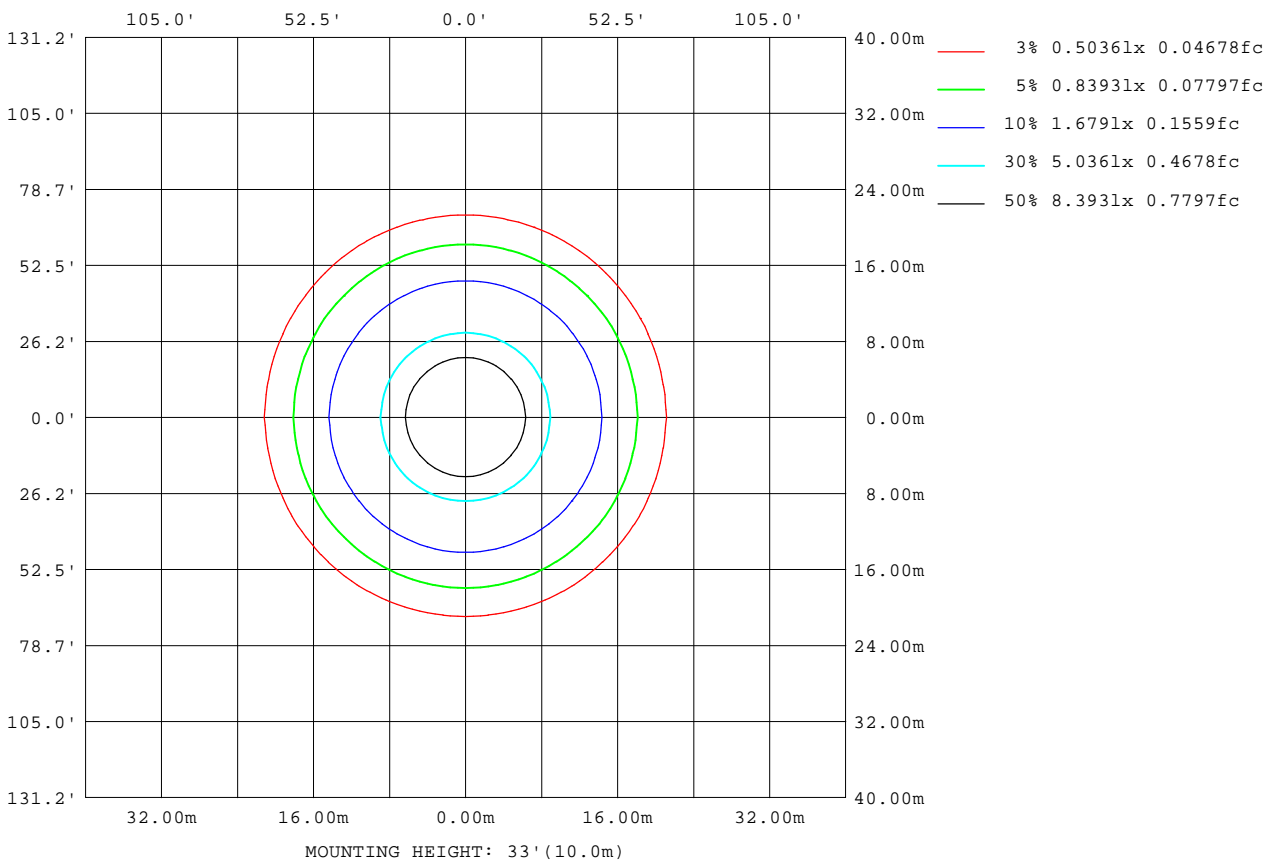
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.6lx1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	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:

LED Avg.L Report

Test:U:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

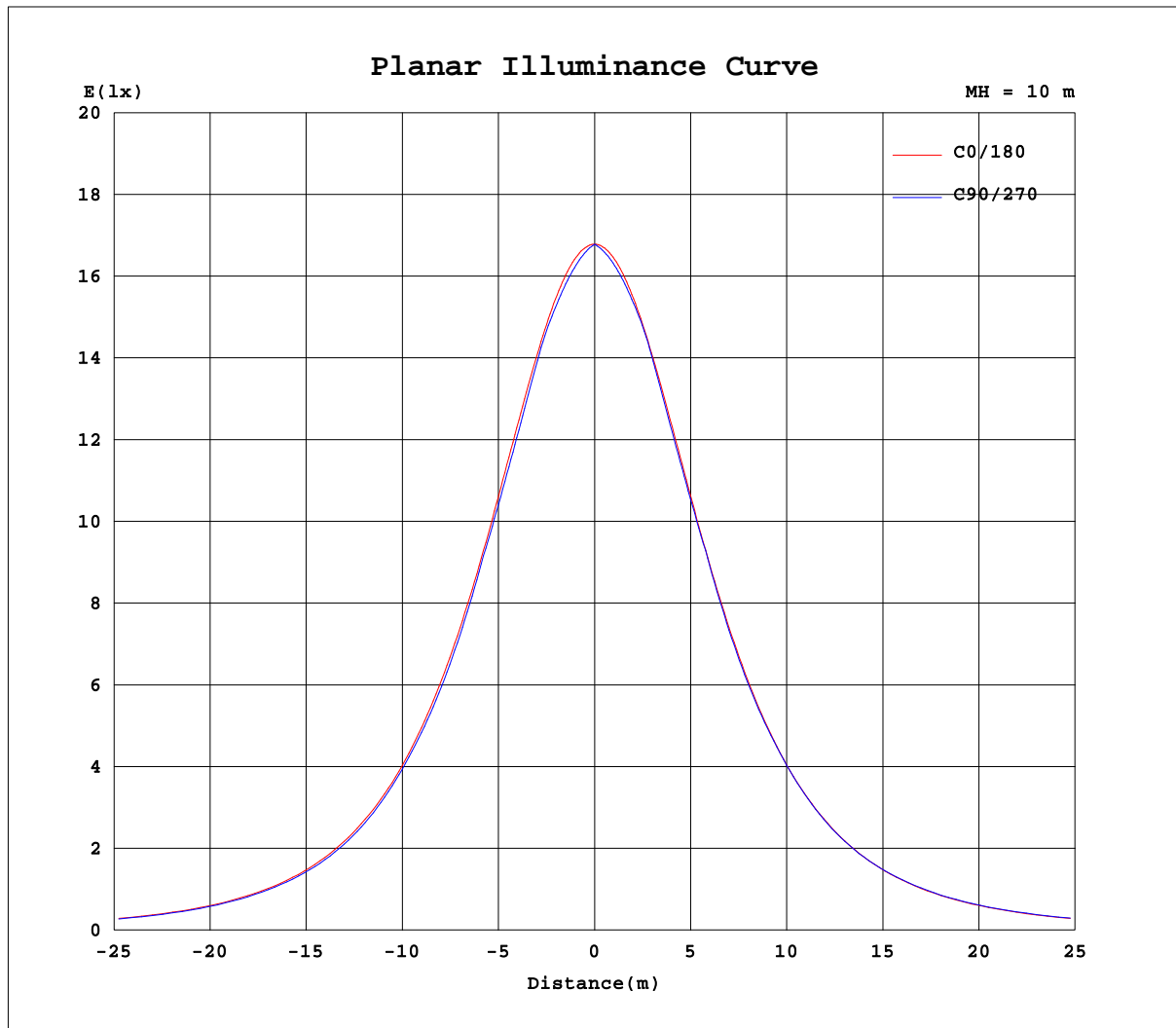
AvgL	cd/m2
L_0~180(65)av	2306
L_0~180(75)av	2132
L_0~180(85)av	1304
L_90~270(65)av	2292
L_90~270(75)av	2172
L_90~270(85)av	1949
L_45(65)av	2281
L_45(75)av	2148
L_45(85)av	1886

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

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:

Planar Illuminance Curve



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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*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	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679
5	1671	1669	1667	1665	1663	1662	1660	1659	1658	1657	1656	1655	1654	1654	1654	1653	1653	1653	1653
10	1650	1646	1642	1639	1636	1634	1632	1630	1629	1628	1628	1627	1627	1627	1627	1627	1627	1627	1627
15	1615	1609	1604	1600	1597	1595	1593	1592	1592	1593	1594	1595	1596	1598	1599	1598	1598	1598	1598
20	1567	1559	1553	1549	1546	1545	1545	1546	1549	1550	1550	1547	1544	1542	1541	1540	1539	1539	1539
25	1505	1496	1490	1486	1484	1485	1488	1489	1486	1482	1479	1477	1475	1475	1475	1475	1475	1475	1475
30	1432	1421	1414	1412	1412	1416	1416	1409	1405	1403	1402	1403	1404	1406	1408	1410	1411	1412	1412
35	1346	1334	1328	1327	1331	1330	1323	1319	1319	1320	1323	1327	1323	1320	1318	1316	1315	1315	1315
40	1249	1237	1232	1234	1236	1228	1224	1225	1229	1230	1225	1221	1219	1218	1217	1217	1217	1217	1217
45	1142	1130	1126	1131	1123	1119	1121	1127	1120	1116	1114	1113	1114	1115	1116	1118	1117	1117	1117
50	1025	1013	1013	1013	1006	1008	1011	1004	1001	1001	1003	1005	1004	1001	999	998	997	996	996
55	901	890	893	886	885	888	882	880	882	884	881	878	876	874	873	873	873	872	872
60	770	760	762	756	760	754	754	757	754	750	749	748	748	748	748	748	749	749	749
65	635	627	624	627	621	623	624	620	619	618	619	619	618	616	616	615	615	614	614
70	496	492	484	482	483	484	484	485	487	485	484	483	482	481	481	481	480	480	480
75	359	347	337	337	339	344	348	350	351	351	350	350	349	349	348	348	347	347	347
80	217	192	193	198	206	212	216	219	219	219	219	218	218	219	219	218	218	218	218
85	75.2	70.5	76.8	83.8	89.1	92.1	95.4	97.3	98.3	98.7	98.5	98.1	97.7	97.2	96.7	96.4	96.2	96.1	96.0
90	1.24	3.31	3.77	4.39	5.24	6.17	6.97	7.69	8.38	9.02	9.66	10.2	10.7	11.2	11.5	12.0	12.3	12.4	12.5
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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*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	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679
5	1653	1653	1653	1654	1654	1655	1655	1656	1657	1658	1659	1661	1662	1664	1665	1667	1669	1672	1670
10	1627	1627	1627	1627	1627	1627	1628	1628	1629	1629	1631	1632	1634	1637	1639	1643	1647	1651	1647
15	1598	1598	1598	1599	1598	1597	1595	1594	1594	1593	1593	1594	1595	1598	1601	1605	1610	1616	1611
20	1539	1539	1540	1541	1542	1545	1548	1550	1551	1550	1547	1546	1546	1547	1550	1554	1560	1568	1562
25	1475	1475	1475	1475	1475	1476	1477	1479	1483	1487	1490	1489	1486	1486	1487	1491	1498	1507	1499
30	1412	1411	1410	1408	1406	1405	1404	1403	1404	1406	1410	1417	1418	1414	1413	1416	1423	1433	1425
35	1315	1315	1316	1318	1321	1324	1328	1324	1321	1320	1321	1324	1331	1333	1329	1330	1336	1348	1339
40	1217	1217	1217	1217	1218	1219	1222	1225	1231	1230	1226	1226	1229	1237	1235	1233	1239	1251	1242
45	1117	1117	1118	1116	1115	1114	1113	1114	1116	1121	1128	1122	1121	1125	1132	1128	1131	1145	1135
50	996	997	998	999	1001	1004	1004	1002	1001	1002	1005	1013	1009	1007	1014	1014	1015	1029	1019
55	873	873	873	873	874	875	877	880	883	882	881	883	890	887	887	894	892	904	895
60	749	749	748	748	748	748	748	749	750	753	756	754	755	762	758	763	762	773	766
65	614	614	615	616	616	618	619	619	619	618	619	623	621	620	627	624	628	638	632
70	480	480	480	480	481	482	483	484	485	486	485	483	481	479	477	480	490	499	497
75	347	347	347	348	348	348	349	349	349	350	349	347	342	336	332	331	339	361	358
80	218	218	218	218	218	218	217	218	218	218	216	214	209	204	196	187	187	216	222
85	96.0	95.9	95.7	95.8	95.9	96.0	96.3	96.6	96.6	96.2	95.2	93.2	90.0	86.6	80.4	73.0	64.3	73.2	91.6
90	12.3	12.0	11.5	10.9	10.2	9.59	8.96	8.32	7.65	6.99	6.36	5.62	4.82	4.02	3.40	2.92	2.76	2.11	1.49
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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

Table--3

UNIT: cd

C(DEC) γ (DEC)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679
5	1668	1667	1665	1664	1663	1662	1661	1660	1660	1659	1659	1658	1658	1658	1658	1657	1658	1657	1658
10	1644	1642	1640	1638	1637	1636	1635	1635	1635	1635	1635	1636	1636	1636	1636	1636	1636	1636	1636
15	1607	1604	1602	1601	1601	1601	1602	1604	1605	1607	1609	1611	1612	1612	1611	1611	1611	1611	1611
20	1557	1555	1553	1554	1555	1558	1561	1564	1564	1562	1560	1557	1556	1555	1554	1554	1554	1554	1554
25	1495	1493	1493	1496	1500	1503	1501	1497	1494	1493	1492	1492	1492	1492	1492	1493	1493	1492	1492
30	1421	1420	1423	1429	1429	1424	1420	1419	1419	1420	1422	1424	1427	1428	1430	1431	1431	1431	1430
35	1335	1337	1343	1343	1337	1335	1335	1337	1341	1346	1343	1340	1338	1337	1337	1336	1336	1336	1336
40	1239	1244	1248	1241	1239	1241	1245	1248	1244	1241	1240	1239	1240	1240	1240	1240	1241	1240	1240
45	1134	1141	1136	1133	1136	1143	1138	1135	1134	1135	1136	1138	1141	1143	1143	1143	1143	1142	1142
50	1021	1023	1018	1021	1026	1020	1019	1021	1024	1027	1028	1027	1025	1025	1025	1024	1024	1024	1024
55	901	896	897	901	897	897	900	904	903	902	902	902	902	903	903	903	903	903	903
60	770	766	772	767	769	773	773	772	773	774	776	777	779	781	782	782	782	782	781
65	632	636	633	635	638	637	639	641	644	647	648	649	649	650	650	651	651	650	650
70	495	496	499	500	501	504	508	510	511	513	515	516	517	518	518	519	519	519	518
75	359	361	361	365	368	371	374	377	379	381	383	384	385	386	387	387	387	387	386
80	224	224	228	230	235	240	243	246	248	250	252	254	255	255	256	256	256	255	255
85	90.9	93.9	101	105	110	113	116	118	120	122	123	124	124	125	126	126	126	125	125
90	1.50	2.16	4.01	6.03	8.26	10.5	12.7	14.8	16.8	18.4	19.9	21.1	22.3	23.3	24.1	24.6	24.6	24.1	23.5
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:120.1V I:0.3132A P:37.51W PF:0.9845 Lamp Flux:4914.61x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24D40CC-PRM(4000K)	DIM.: 1213x603mm	SERIAL No.:BLD20171213A03
MFR.: ASD Lighting corp	SUR.:0.558*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	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679	1679				
5	1658	1658	1658	1658	1659	1659	1660	1661	1661	1662	1664	1665	1666	1668	1669				
10	1636	1635	1635	1635	1635	1635	1635	1635	1635	1636	1637	1639	1641	1644	1647				
15	1611	1611	1610	1608	1606	1604	1602	1601	1600	1600	1600	1601	1603	1606	1610				
20	1555	1556	1557	1559	1561	1563	1563	1560	1557	1554	1552	1552	1553	1556	1561				
25	1492	1491	1491	1491	1492	1493	1496	1499	1501	1499	1494	1491	1491	1493	1498				
30	1428	1426	1424	1421	1419	1418	1418	1419	1422	1427	1427	1421	1418	1419	1423				
35	1337	1338	1339	1342	1345	1340	1336	1333	1333	1335	1341	1341	1335	1333	1337				
40	1239	1239	1239	1239	1240	1242	1247	1244	1239	1237	1239	1246	1242	1237	1239				
45	1142	1140	1137	1135	1133	1132	1133	1136	1141	1133	1131	1133	1139	1132	1132				
50	1024	1025	1026	1027	1026	1022	1019	1017	1018	1023	1018	1016	1021	1019	1016				
55	902	901	901	900	901	902	902	899	895	895	899	894	893	899	892				
60	780	778	776	774	772	771	770	771	772	767	764	769	763	767	763				
65	649	648	647	646	645	642	639	637	635	636	633	630	633	629	629				
70	517	516	515	513	512	510	508	506	502	499	498	496	493	492	495				
75	385	384	383	381	379	377	375	372	369	366	363	359	360	357	357				
80	254	253	252	250	248	247	244	241	237	233	228	225	222	222	219				
85	123	123	122	121	119	118	116	113	110	107	104	99.0	92.7	89.5	90.1				
90	22.4	21.2	20.0	18.7	17.0	15.1	13.1	11.0	8.96	6.87	4.98	3.17	1.52	1.47	1.47				
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: