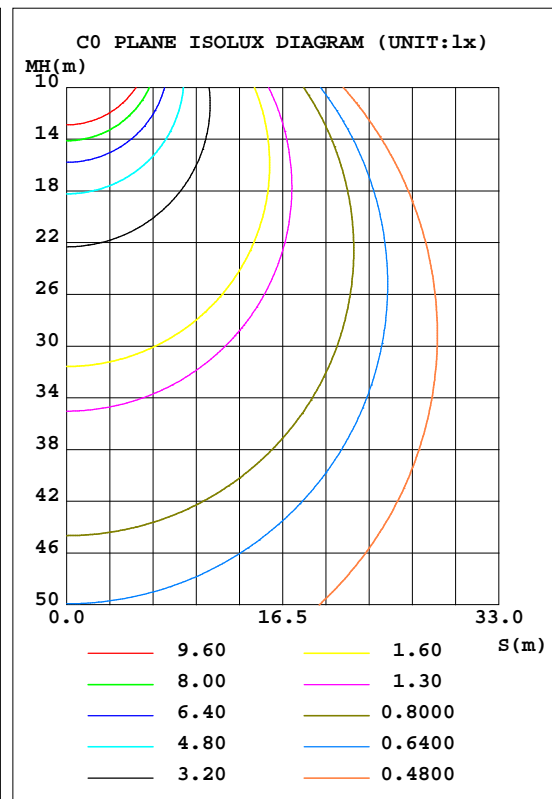
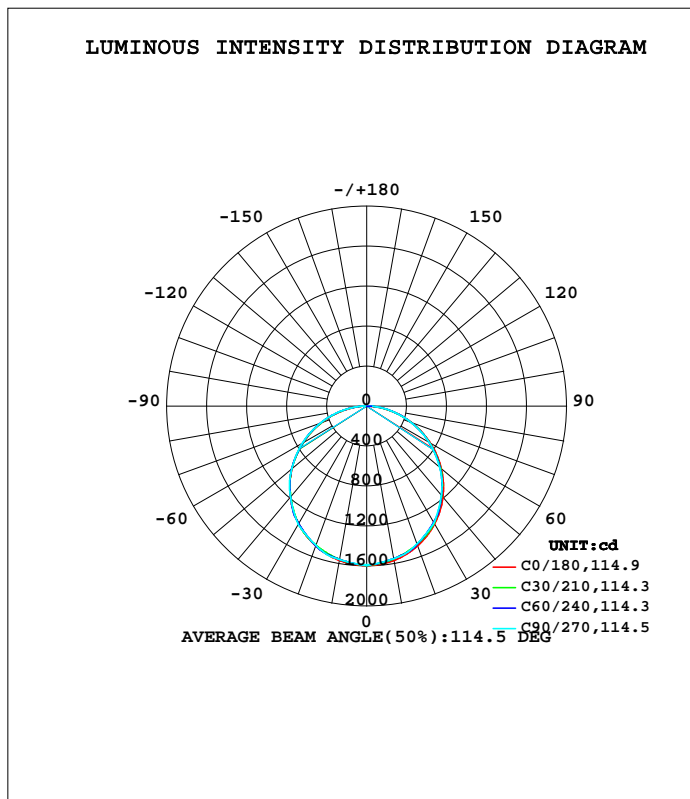


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.90 lm/W			
MODEL		I _{max} (cd)	1595	S/MH(C0/180)	1.27
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)		TOTAL FLUX(lm)	4695.8	η UP, DN(C0-180)	0.0,49.5
NOMINAL FLUX(lm)	4695.77	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.5
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:2018-09-12

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	1588	1576	1573	1576	1589	1579	1577	1579	0- 5	37.89	37.89	0.81,0.81
10	1569	1550	1550	1550	1569	1557	1560	1557	5- 10	112.1	150.0	3.19,3.19
15	1536	1518	1524	1518	1536	1528	1538	1528	10- 15	182.9	332.9	7.09,7.09
20	1489	1479	1468	1478	1490	1491	1484	1492	15- 20	247.8	580.7	12.4,12.4
25	1431	1415	1409	1414	1432	1429	1427	1429	20- 25	304.1	884.8	18.8,18.8
30	1361	1340	1349	1339	1362	1355	1370	1355	25- 30	350.9	1236	26.3,26.3
35	1280	1262	1256	1261	1280	1278	1278	1278	30- 35	386.5	1622	34.5,34.5
40	1188	1176	1163	1176	1189	1194	1187	1194	35- 40	408.6	2031	43.2,43.2
45	1087	1068	1067	1066	1087	1085	1094	1086	40- 45	417.8	2449	52.1,52.1
50	976.2	957.7	953.0	955.0	976.6	975.8	979.5	976.6	45- 50	413.8	2862	61,61
55	858.2	846.3	836.5	842.2	858.2	863.8	862.8	865.5	50- 55	395.7	3258	69.4,69.4
60	733.6	720.4	720.1	716.5	734.0	736.8	746.0	738.1	55- 60	365.3	3623	77.2,77.2
65	604.5	595.6	593.2	591.4	605.4	611.3	617.9	611.7	60- 65	324.0	3947	84.1,84.1
70	473.4	470.0	466.5	465.7	473.9	483.6	489.8	484.4	65- 70	272.7	4220	89.9,89.9
75	343.8	343.5	340.8	338.6	344.2	354.4	361.7	355.5	70- 75	214.0	4434	94.4,94.4
80	209.3	219.3	219.2	215.2	205.9	227.7	234.5	228.2	75- 80	150.3	4584	97.6,97.6
85	73.73	104.0	103.6	99.75	70.75	104.5	108.6	104.4	80- 85	85.25	4670	99.4,99.4
90	1.170	13.18	18.25	10.96	2.079	9.419	17.20	9.079	85- 90	25.05	4695	100,100
95	0	0	0	0	0	0	0	0	90- 95	1.163	4696	100,100
100	0	0	0	0	0	0	0	0	95-100	0	4696	100,100
105	0	0	0	0	0	0	0	0	100-105	0	4696	100,100
110	0	0	0	0	0	0	0	0	105-110	0	4696	100,100
115	0	0	0	0	0	0	0	0	110-115	0	4696	100,100
120	0	0	0	0	0	0	0	0	115-120	0	4696	100,100
125	0	0	0	0	0	0	0	0	120-125	0	4696	100,100
130	0	0	0	0	0	0	0	0	125-130	0	4696	100,100
135	0	0	0	0	0	0	0	0	130-135	0	4696	100,100
140	0	0	0	0	0	0	0	0	135-140	0	4696	100,100
145	0	0	0	0	0	0	0	0	140-145	0	4696	100,100
150	0	0	0	0	0	0	0	0	145-150	0	4696	100,100
155	0	0	0	0	0	0	0	0	150-155	0	4696	100,100
160	0	0	0	0	0	0	0	0	155-160	0	4696	100,100
165	0	0	0	0	0	0	0	0	160-165	0	4696	100,100
170	0	0	0	0	0	0	0	0	165-170	0	4696	100,100
175	0	0	0	0	0	0	0	0	170-175	0	4696	100,100
180	0	0	0	0	0	0	0	0	175-180	0	4696	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2448.5 lm

%lum = 52.1%
%lamp = 52.1%

Conical surface Flux(120deg): 3623.3 lm

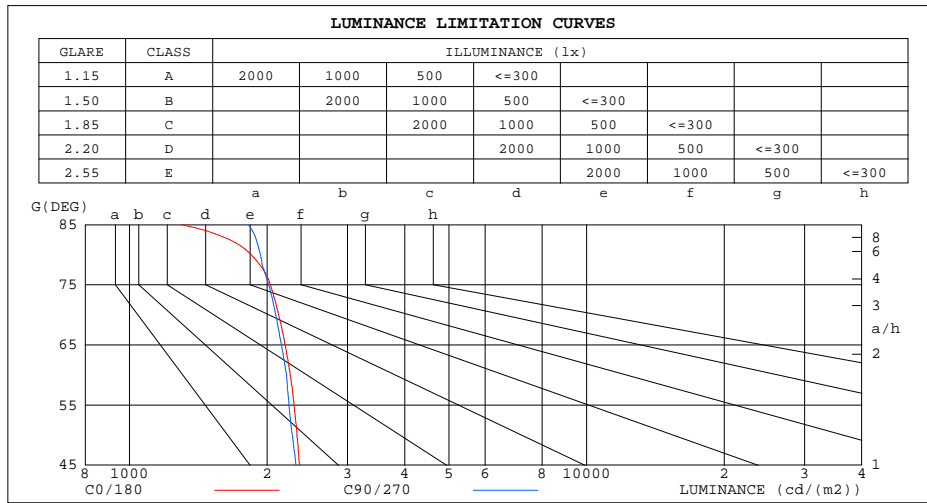
%lum = 77.2%
%lamp = 77.2%

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:22DEG
Operators:HUA
Test Date:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corpo	SUR.:0.558*1.17	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1296	1821
80	1847	1934
75	2035	2017
70	2120	2089
65	2191	2150
60	2248	2206
55	2292	2234
50	2326	2271
45	2354	2312

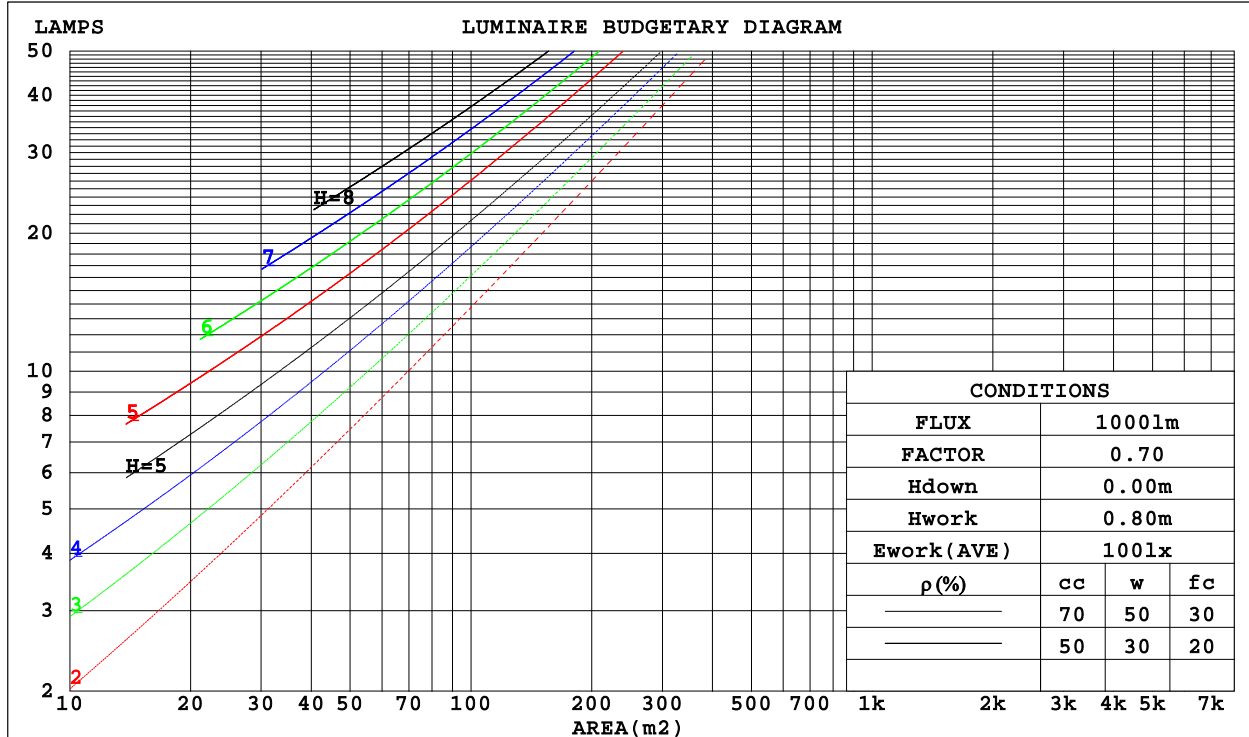
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
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	.68
3.0	.79	.70	.63	.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	.39	.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	.41	.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	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corp	SUR.:0.558*1.17	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	.320	.182	.058	.313	.178	.057	.299	.172	.055	.287	.166	.053	.276	.160	.052	
2.0	.299	.164	.050	.292	.161	.050	.281	.156	.048	.270	.151	.047	.260	.147	.046	
3.0	.275	.146	.044	.270	.144	.043	.259	.140	.043	.250	.137	.042	.241	.133	.041	
4.0	.253	.132	.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	.113	.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	.097	.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	.163	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

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	.115	.074	.142	.099	.064	.098	.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	.151	.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:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm										
NAME: ASD Lighting corp					TYPE:LED PANEL			WEIGHT:		
SPEC.: ASD-ELP05-24DCC-STD(3500K)					DIM.: 1213x603mm			SERIAL No.:BLD20180912P07		
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	15.7	17.3	16.0	17.5	17.7	15.7	17.2	15.9	17.4	17.6
3H	17.3	18.8	17.6	19.0	19.2	17.3	18.7	17.6	18.9	19.2
4H	18.0	19.3	18.3	19.6	19.9	18.0	19.3	18.3	19.6	19.8
6H	18.4	19.7	18.8	20.0	20.3	18.5	19.8	18.8	20.1	20.4
8H	18.5	19.8	18.9	20.1	20.4	18.7	19.9	19.1	20.2	20.5
12H	18.6	19.8	19.0	20.1	20.4	18.8	20.0	19.2	20.3	20.6
4H 2H	16.3	17.7	16.7	18.0	18.2	16.3	17.7	16.6	17.9	18.2
3H	18.2	19.3	18.5	19.6	19.9	18.1	19.3	18.5	19.6	19.9
4H	18.9	20.0	19.3	20.3	20.7	19.0	20.0	19.3	20.4	20.7
6H	19.5	20.5	19.9	20.8	21.2	19.6	20.6	20.0	21.0	21.3
8H	19.7	20.6	20.1	20.9	21.3	19.9	20.8	20.3	21.2	21.6
12H	19.8	20.6	20.2	21.0	21.4	20.1	20.9	20.5	21.3	21.7
8H 4H	19.2	20.2	19.7	20.5	20.9	19.3	20.2	19.7	20.5	20.9
6H	20.0	20.7	20.4	21.2	21.6	20.1	20.9	20.6	21.3	21.7
8H	20.3	20.9	20.7	21.4	21.8	20.5	21.2	20.9	21.6	22.0
12H	20.4	21.0	20.9	21.5	21.9	20.8	21.4	21.2	21.8	22.3
12H 4H	19.3	20.1	19.7	20.5	20.9	19.3	20.1	19.7	20.5	20.9
6H	20.1	20.7	20.5	21.2	21.6	20.2	20.9	20.7	21.3	21.7
8H	20.4	21.0	20.9	21.4	21.9	20.6	21.2	21.1	21.6	22.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.3				

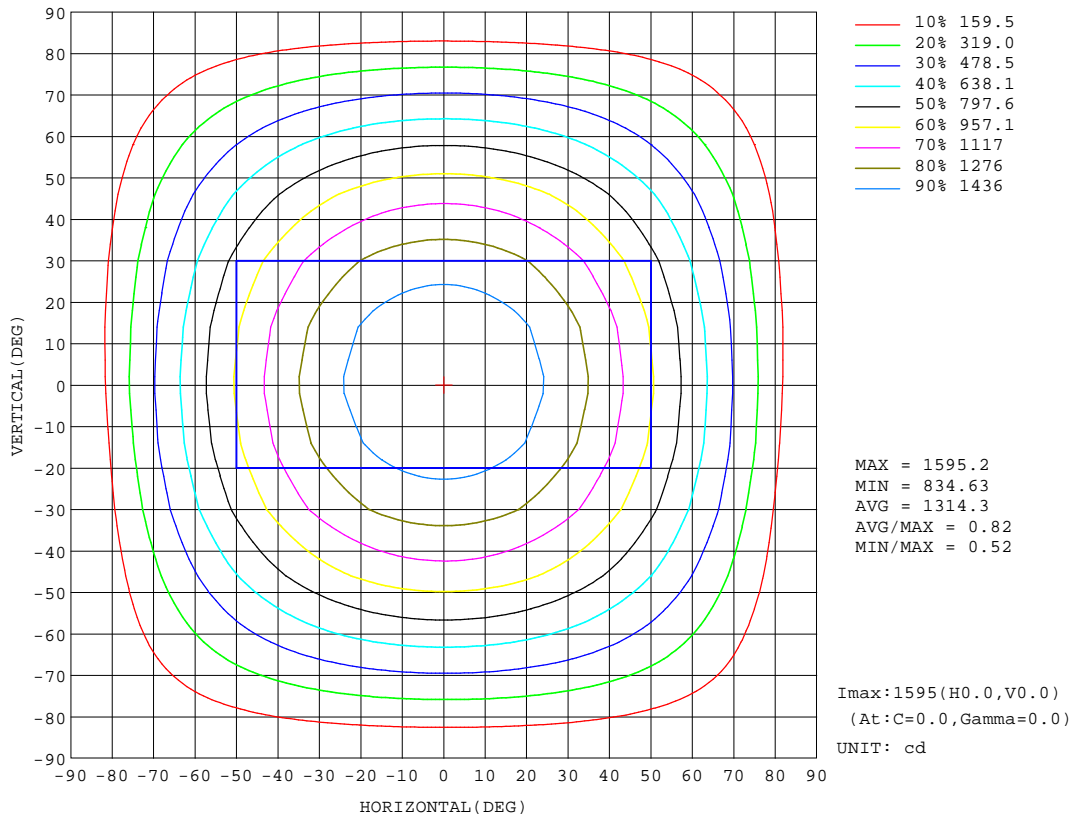
CIE Pub.117 Corrected 4696 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.4)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:



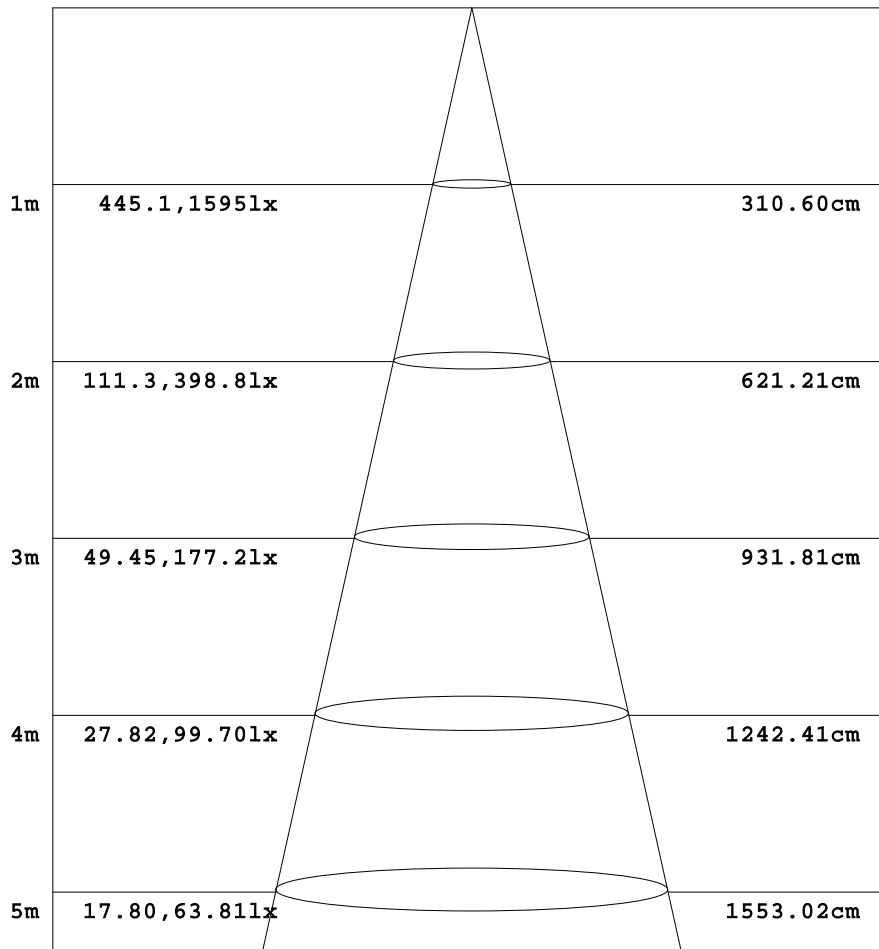
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

Flux out:3445 lm



Height Eavg, Emax Angle:114.44deg Diameter

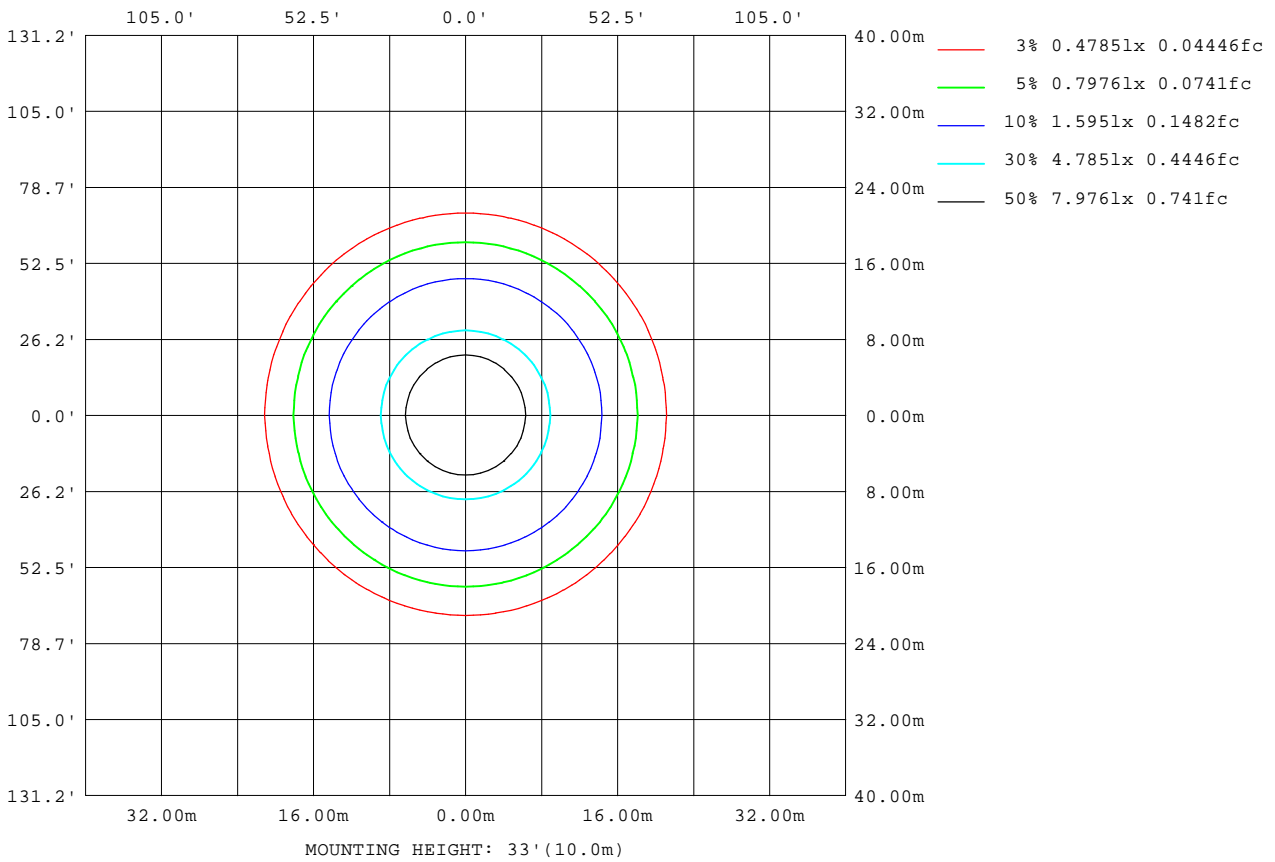
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
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:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corp	SUR.:0.558*1.17	Shielding Angle:

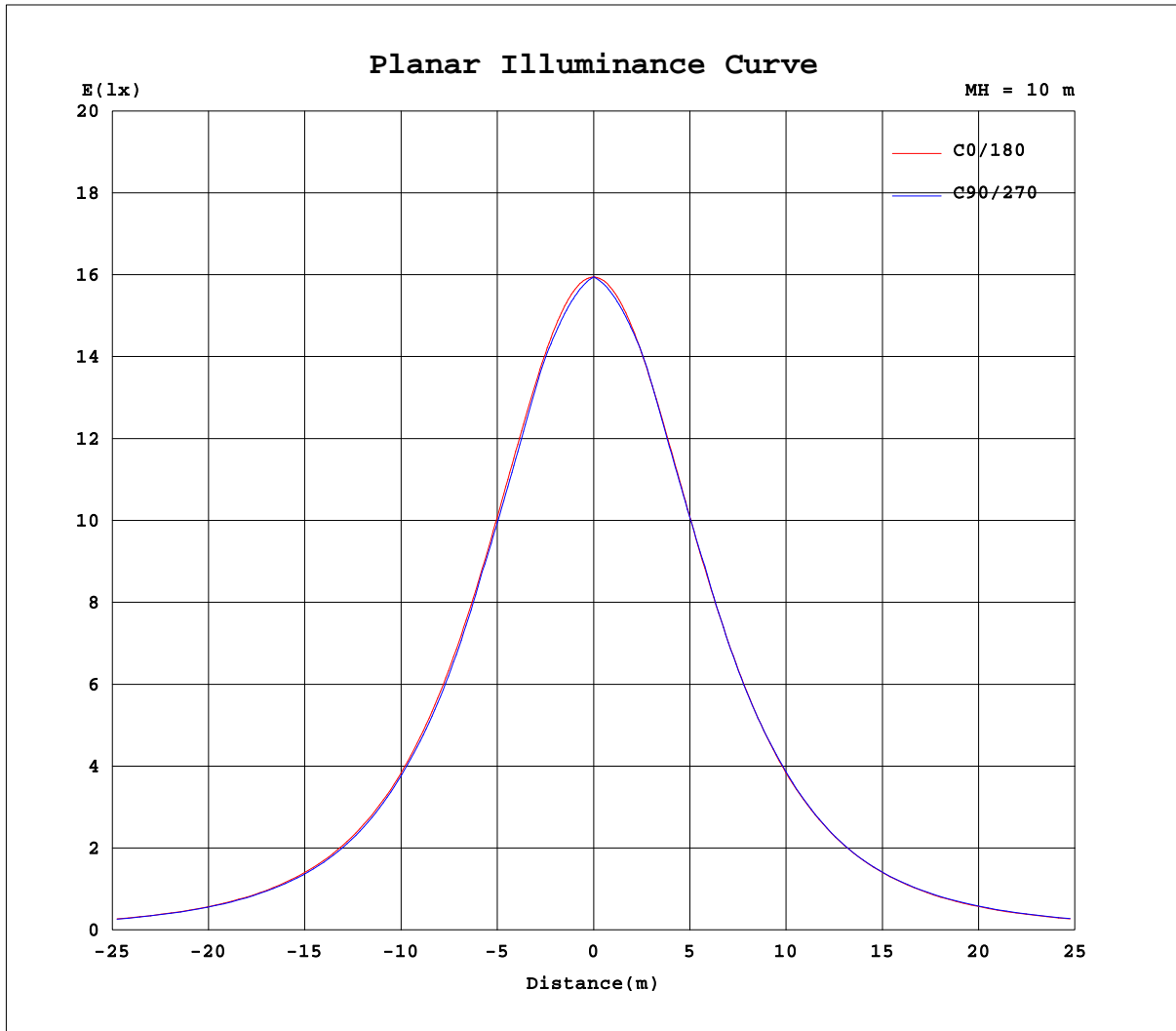
AvgL	cd/m2
L_0~180(65)av	2193
L_0~180(75)av	2036
L_0~180(85)av	1270
L_90~270(65)av	2195
L_90~270(75)av	2079
L_90~270(85)av	1865
L_45(65)av	2184
L_45(75)av	2060
L_45(85)av	1813

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:22DEG
 Operators:HUA
 Test Date:2018-09-12

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: 2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
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	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595
5	1588	1586	1585	1583	1581	1580	1579	1578	1577	1576	1575	1574	1574	1573	1573	1573	1573	1573	1573
10	1569	1565	1562	1559	1556	1555	1553	1552	1551	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
15	1536	1530	1526	1522	1520	1518	1517	1517	1518	1518	1519	1521	1522	1524	1524	1524	1524	1524	1524
20	1489	1483	1478	1474	1472	1472	1473	1475	1477	1479	1479	1477	1474	1472	1470	1469	1469	1468	1468
25	1431	1423	1418	1415	1415	1416	1420	1421	1419	1415	1412	1410	1409	1408	1408	1408	1409	1409	1409
30	1361	1352	1347	1346	1347	1352	1352	1346	1342	1340	1340	1342	1342	1344	1345	1347	1348	1349	1349
35	1280	1270	1266	1266	1271	1270	1264	1261	1260	1262	1265	1269	1265	1262	1260	1258	1257	1256	1256
40	1188	1178	1175	1178	1181	1173	1170	1171	1175	1176	1171	1168	1165	1164	1163	1163	1163	1163	1163
45	1087	1076	1075	1080	1074	1070	1072	1078	1072	1068	1065	1065	1065	1066	1067	1068	1068	1067	1067
50	976	966	968	968	962	964	967	961	958	958	959	961	961	958	956	955	954	953	953
55	858	849	854	848	847	850	844	843	845	846	844	841	839	838	838	837	837	837	837
60	734	726	730	724	729	723	723	726	723	720	719	719	719	719	719	720	720	720	720
65	604	599	598	601	596	598	599	596	595	596	597	597	596	595	595	594	594	594	593
70	473	472	466	464	465	466	467	469	470	470	470	469	469	468	468	468	467	467	466
75	344	335	326	326	329	334	339	342	343	343	343	343	343	343	343	342	342	341	341
80	209	187	188	194	202	209	214	217	219	219	219	219	220	220	220	220	220	220	219
85	73.7	69.0	76.4	84.3	90.7	94.9	98.9	101	103	104	104	104	104	104	104	104	104	104	104
90	1.17	4.44	4.91	5.82	7.12	8.49	9.79	11.0	12.1	13.2	14.1	14.9	15.6	16.2	16.8	17.4	17.9	18.2	18.3
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:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
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	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595
5	1573	1573	1573	1573	1573	1574	1575	1575	1576	1577	1578	1579	1580	1582	1583	1585	1587	1589	1587
10	1550	1550	1550	1550	1550	1550	1549	1550	1550	1551	1552	1553	1554	1556	1559	1562	1565	1569	1566
15	1524	1524	1524	1524	1523	1522	1520	1519	1518	1517	1517	1517	1518	1520	1522	1526	1530	1536	1532
20	1468	1468	1469	1470	1471	1473	1476	1478	1478	1476	1474	1472	1471	1472	1474	1478	1483	1490	1484
25	1409	1408	1408	1408	1408	1408	1409	1411	1414	1418	1420	1419	1415	1414	1415	1418	1423	1432	1425
30	1349	1348	1347	1345	1343	1341	1340	1339	1339	1341	1344	1350	1351	1346	1345	1347	1352	1362	1355
35	1256	1257	1257	1259	1261	1265	1268	1264	1261	1259	1259	1262	1268	1269	1265	1265	1270	1280	1273
40	1162	1162	1162	1163	1163	1164	1167	1170	1176	1174	1170	1169	1171	1178	1176	1173	1178	1189	1180
45	1067	1067	1067	1066	1064	1063	1063	1064	1066	1070	1077	1071	1069	1072	1078	1073	1075	1087	1079
50	953	953	954	955	956	958	958	956	955	956	959	966	962	960	966	965	965	977	969
55	836	836	836	836	836	837	838	840	842	841	840	842	849	845	845	851	847	858	851
60	720	719	719	718	717	716	716	716	716	718	720	718	720	727	722	726	724	734	728
65	593	593	593	593	593	594	594	593	591	591	591	593	592	591	597	594	597	605	601
70	466	466	466	465	465	465	465	466	466	466	464	461	459	457	456	458	467	474	473
75	341	340	340	340	340	340	339	339	339	338	337	334	329	323	319	318	325	344	342
80	219	218	218	218	217	216	216	216	215	214	212	209	204	198	190	181	181	206	213
85	103	103	102	102	102	101	101	100	99.8	98.7	97.2	94.7	90.8	86.6	79.5	70.9	61.2	70.8	87.3
90	18.1	17.5	16.8	16.0	15.2	14.3	13.2	12.0	11.0	9.96	9.03	8.06	6.97	5.83	4.77	3.88	3.47	2.08	1.45
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:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
MFR.: ASD Lighting corp	SUR.:0.558*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	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595
5	1586	1584	1583	1582	1581	1581	1580	1579	1579	1578	1578	1578	1578	1577	1577	1577	1577	1577	1577
10	1563	1561	1560	1558	1558	1557	1557	1557	1557	1557	1558	1558	1559	1559	1559	1559	1560	1560	1559
15	1528	1526	1525	1524	1524	1525	1526	1528	1530	1532	1534	1536	1538	1538	1538	1538	1538	1538	1538
20	1481	1479	1478	1479	1481	1485	1489	1491	1492	1491	1489	1487	1486	1485	1485	1484	1484	1485	1485
25	1422	1421	1422	1425	1430	1433	1432	1429	1426	1425	1425	1425	1426	1426	1427	1427	1427	1427	1427
30	1351	1352	1355	1362	1363	1358	1356	1355	1356	1358	1360	1362	1365	1367	1368	1369	1370	1369	1368
35	1270	1273	1279	1281	1276	1274	1275	1278	1282	1287	1285	1282	1281	1280	1279	1279	1278	1279	1279
40	1179	1185	1190	1184	1183	1185	1191	1194	1190	1187	1186	1186	1186	1186	1187	1187	1187	1187	1187
45	1079	1087	1083	1082	1085	1093	1088	1085	1085	1085	1087	1089	1091	1093	1093	1093	1094	1094	1094
50	972	975	971	975	981	976	974	976	979	982	983	982	980	980	980	979	979	980	980
55	858	854	856	862	857	857	861	864	863	862	861	861	862	862	862	863	863	863	862
60	733	731	738	733	734	738	738	737	737	738	740	741	743	744	745	746	746	746	745
65	602	607	604	606	609	608	609	611	614	616	616	616	617	617	618	618	618	618	618
70	473	474	476	476	477	480	483	484	485	485	486	487	488	489	489	490	490	490	490
75	344	346	345	348	350	352	353	354	356	357	358	359	360	361	361	361	362	362	362
80	214	214	216	217	221	224	226	228	229	231	232	233	233	234	234	234	234	234	234
85	86.1	87.6	92.4	95.5	98.6	101	103	105	106	106	107	107	108	108	108	109	109	108	108
90	1.46	1.49	2.16	3.38	4.74	6.31	7.88	9.42	10.9	12.3	13.5	14.5	15.3	16.1	16.8	17.2	17.2	16.9	16.4
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:2018-09-12

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:03356A P:40.87W PF:0.9867 Lamp Flux:4695.77x1 lm		
NAME: ASD Lighting corp	TYPE:LED PANEL	WEIGHT:
SPEC.: ASD-ELP05-24DCC-STD(3500K)	DIM.: 1213x603mm	SERIAL No.:BLD20180912P07
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	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595				
5	1578	1578	1578	1578	1578	1579	1579	1580	1580	1581	1582	1583	1584	1585	1587				
10	1559	1559	1558	1558	1557	1557	1557	1557	1557	1558	1559	1560	1561	1563	1566				
15	1538	1538	1536	1534	1532	1530	1528	1527	1525	1524	1524	1525	1526	1528	1531				
20	1485	1486	1487	1489	1491	1492	1492	1489	1485	1482	1480	1479	1479	1481	1484				
25	1426	1426	1425	1425	1426	1427	1429	1433	1434	1431	1426	1422	1421	1422	1425				
30	1367	1364	1362	1360	1357	1356	1355	1356	1359	1364	1363	1356	1352	1352	1355				
35	1280	1281	1282	1284	1287	1282	1278	1275	1275	1277	1282	1281	1274	1271	1273				
40	1187	1186	1186	1186	1187	1189	1194	1191	1185	1183	1185	1191	1186	1180	1181				
45	1094	1092	1090	1087	1086	1085	1086	1088	1093	1085	1082	1085	1089	1081	1079				
50	980	981	982	984	983	980	977	975	976	981	976	973	977	974	969				
55	862	862	862	862	863	864	866	862	858	858	862	857	856	860	852				
60	744	743	741	740	739	738	738	740	741	736	734	737	731	736	729				
65	618	617	617	617	616	614	612	610	609	611	608	605	607	603	603				
70	489	489	488	488	487	485	484	483	480	478	478	477	474	473	474				
75	361	361	360	359	358	357	355	354	352	350	348	345	347	344	343				
80	234	234	233	232	231	230	228	226	224	221	217	215	214	215	212				
85	108	107	107	106	106	105	104	103	102	99.6	97.0	93.4	88.6	86.5	88.0				
90	15.7	14.9	14.1	13.0	11.7	10.5	9.08	7.65	6.21	4.87	3.53	2.38	1.48	1.42	1.40				
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:2018-09-12

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: