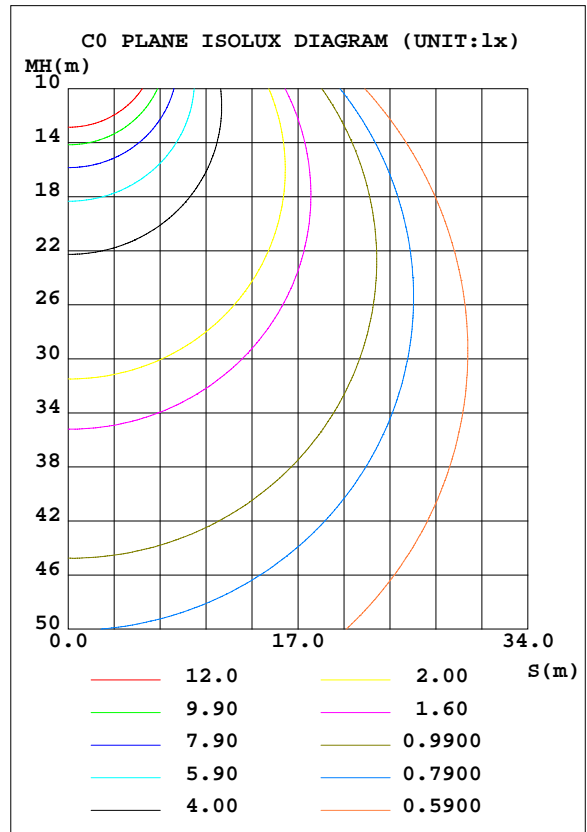
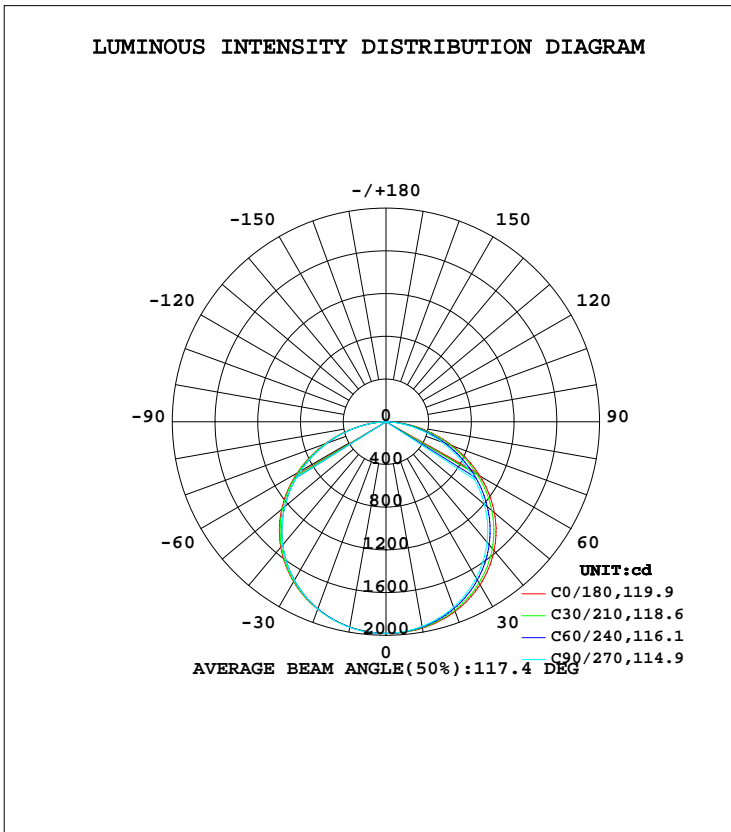


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.58 lm/W			
MODEL	ASD-BLP-24D4050-PRM	I _{max} (cd)	1983	S/MH(C0/180)	1.30
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	5989.4	η UP, DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	5989.45	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1962	1956	1945	1946	1951	1953	1954	1961	0- 10	187.8	187.8	3.14,3.14
20	1889	1871	1848	1854	1869	1865	1866	1882	10- 20	541.7	729.5	12.2,12.2
30	1762	1729	1690	1703	1730	1717	1716	1745	20- 30	831.5	1561	26.1,26.1
40	1575	1528	1473	1495	1533	1512	1504	1548	30- 40	1020	2581	43.1,43.1
50	1326	1269	1203	1229	1275	1249	1237	1290	40- 50	1077	3658	61.1,61.1
60	1017	960.3	890.2	914.5	961.0	934.4	925.1	979.2	50- 60	990.6	4649	77.6,77.6
70	664.0	617.6	554.2	570.2	608.7	589.6	586.8	631.8	60- 70	768.7	5417	90.4,90.4
80	301.7	275.3	219.1	227.6	252.6	246.8	245.2	283.1	70- 80	451.6	5869	98,98
90	9.662	0.2930	0.1228	0.0828	0.3416	0.3252	0.3094	4.004	80- 90	116.9	5986	99.9,99.9
100	0.1920	0.1619	0.1642	0.1863	0.5458	0.5018	0.4811	0.4814	90-100	0.4555	5986	99.9,99.9
110	0.2845	0.2038	0.2321	0.2886	0.5641	0.5328	0.5420	0.5365	100-110	0.3982	5987	100,100
120	0.4807	0.3159	0.3530	0.4701	0.6386	0.5434	0.5228	0.5342	110-120	0.4213	5987	100,100
130	0.6535	0.5120	0.5236	0.6342	0.8047	0.8289	0.7700	0.7134	120-130	0.5136	5988	100,100
140	0.7539	0.6301	0.6516	0.7178	0.8880	0.9383	0.9732	0.8488	130-140	0.5759	5988	100,100
150	0.8114	0.6809	0.6383	0.7584	1.016	1.064	1.044	0.9939	140-150	0.5254	5989	100,100
160	0.9599	0.7759	0.6500	0.8661	1.166	1.208	1.088	1.087	150-160	0.4281	5989	100,100
170	1.135	1.032	0.8484	1.048	1.215	1.336	1.133	1.120	160-170	0.2932	5989	100,100
180	1.188	1.169	1.057	1.055	1.189	1.170	1.059	1.056	170-180	0.1066	5989	100,100
DEG	LUMINOUS INTENSITY:cd Less than 35% Percent = 13.6 %									UNIT:lm		

Conical surface Flux(90deg): 3121 lm

%lum = 52.1%
 %lamp = 52.1%

Conical surface Flux(120deg): 4648.5 lm

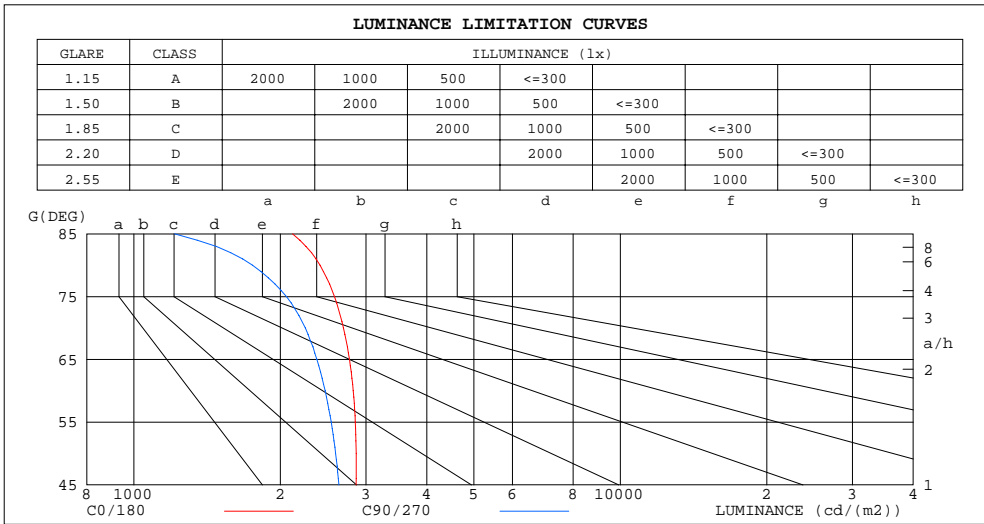
%lum = 77.6%
 %lamp = 77.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2118	1212
80	2413	1753
75	2585	2059
70	2697	2251
65	2776	2378
60	2825	2473
55	2852	2545
50	2865	2599
45	2863	2639

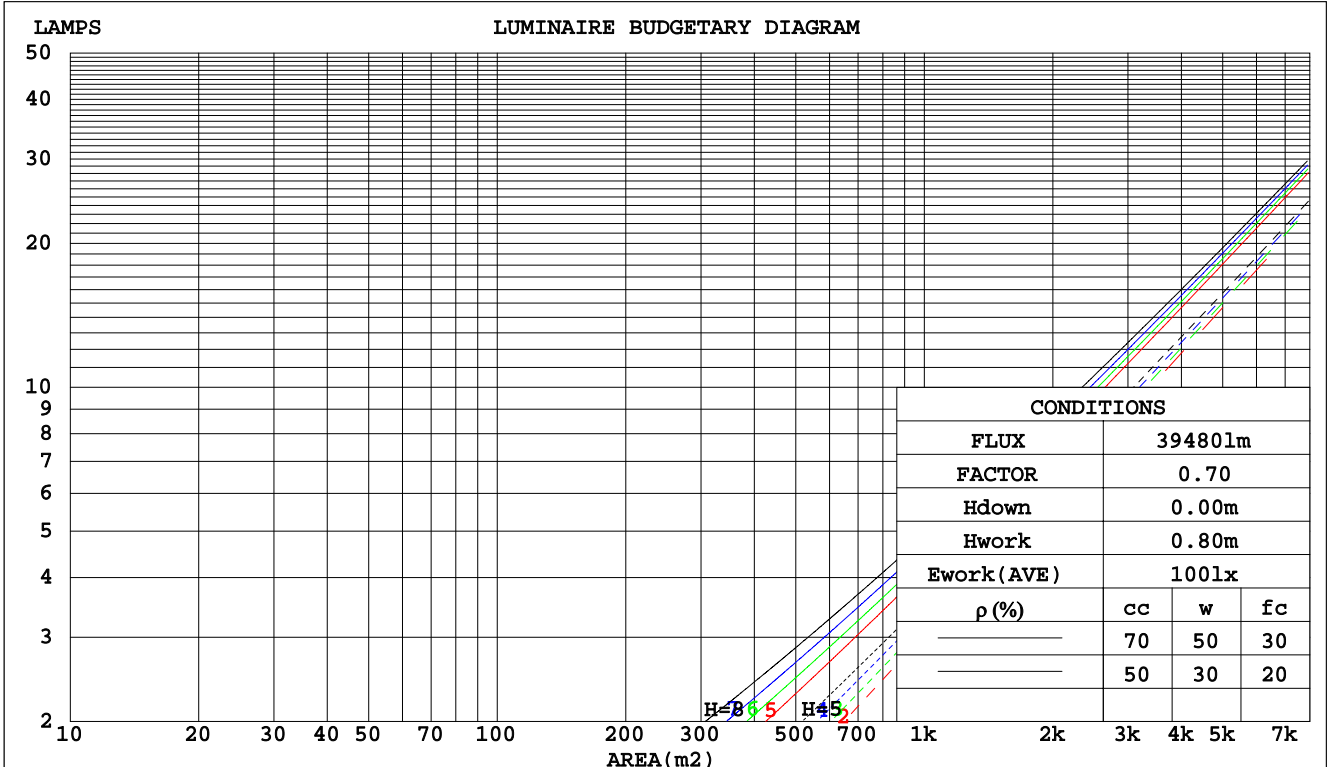
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	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						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	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.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	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	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	.316	.179	.057	.308	.176	.056	.295	.169	.054	.283	.163	.052	.272	.157	.051	
2.0	.297	.163	.050	.290	.160	.049	.279	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.230	.123	.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	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.092	.026	.184	.091	.026	.179	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.023	.163	.082	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

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	.157	.134	.155	.134	.116	.106	.092	.080	.061	.053	.047	.020	.017	.015	
2.0	.173	.132	.098	.148	.114	.085	.102	.079	.059	.059	.046	.035	.019	.015	.011	
3.0	.166	.115	.074	.142	.099	.064	.098	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.158	.102	.058	.136	.088	.051	.093	.061	.036	.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	.144	.083	.039	.123	.072	.034	.085	.050	.024	.049	.030	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.029	.112	.061	.025	.078	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.124	.065	.026	.107	.057	.022	.074	.040	.016	.043	.024	.009	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm										
NAME: ASD Lighting Corp					TYPE:LED			WEIGHT:		
SPEC.:ASD-BLP-24D4050-PRM					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp					SUR.:			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	10.5	12.0	10.8	12.2	12.5	9.9	11.5	10.2	11.7	11.9
3H	12.2	13.6	12.5	13.9	14.1	11.4	12.9	11.7	13.1	13.3
4H	12.9	14.3	13.2	14.5	14.8	12.0	13.4	12.4	13.6	13.9
6H	13.4	14.7	13.8	15.0	15.3	12.4	13.7	12.8	14.0	14.3
8H	13.6	14.9	14.0	15.1	15.4	12.5	13.8	12.9	14.1	14.3
12H	13.7	14.9	14.1	15.2	15.5	12.6	13.8	12.9	14.1	14.4
4H 2H	11.1	12.4	11.4	12.7	12.9	10.6	12.0	11.0	12.3	12.5
3H	13.0	14.2	13.3	14.5	14.8	12.3	13.5	12.7	13.8	14.1
4H	13.8	14.9	14.2	15.2	15.6	13.1	14.1	13.4	14.5	14.8
6H	14.5	15.5	14.9	15.8	16.2	13.6	14.5	14.0	14.9	15.3
8H	14.7	15.6	15.2	16.0	16.4	13.7	14.6	14.1	15.0	15.4
12H	14.9	15.7	15.3	16.1	16.5	13.8	14.6	14.2	15.0	15.4
8H 4H	14.1	15.0	14.5	15.3	15.7	13.4	14.3	13.8	14.7	15.1
6H	14.9	15.7	15.4	16.1	16.5	14.1	14.8	14.5	15.2	15.7
8H	15.3	15.9	15.7	16.4	16.8	14.3	15.0	14.8	15.4	15.8
12H	15.5	16.1	16.0	16.5	17.0	14.4	15.0	14.9	15.5	15.9
12H 4H	14.1	14.9	14.5	15.3	15.7	13.4	14.3	13.9	14.7	15.1
6H	15.0	15.6	15.4	16.1	16.5	14.2	14.8	14.6	15.3	15.7
8H	15.4	15.9	15.8	16.4	16.9	14.4	15.0	14.9	15.5	15.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 5989 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.2)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

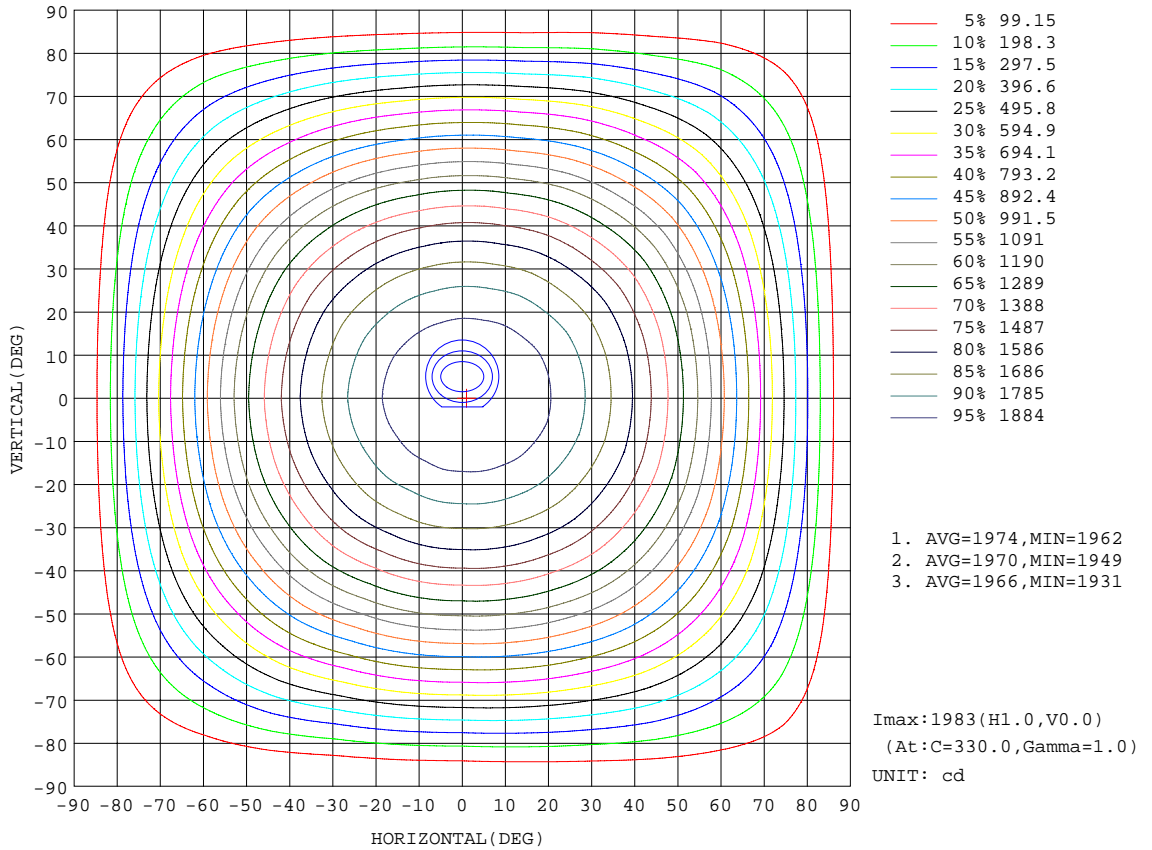
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

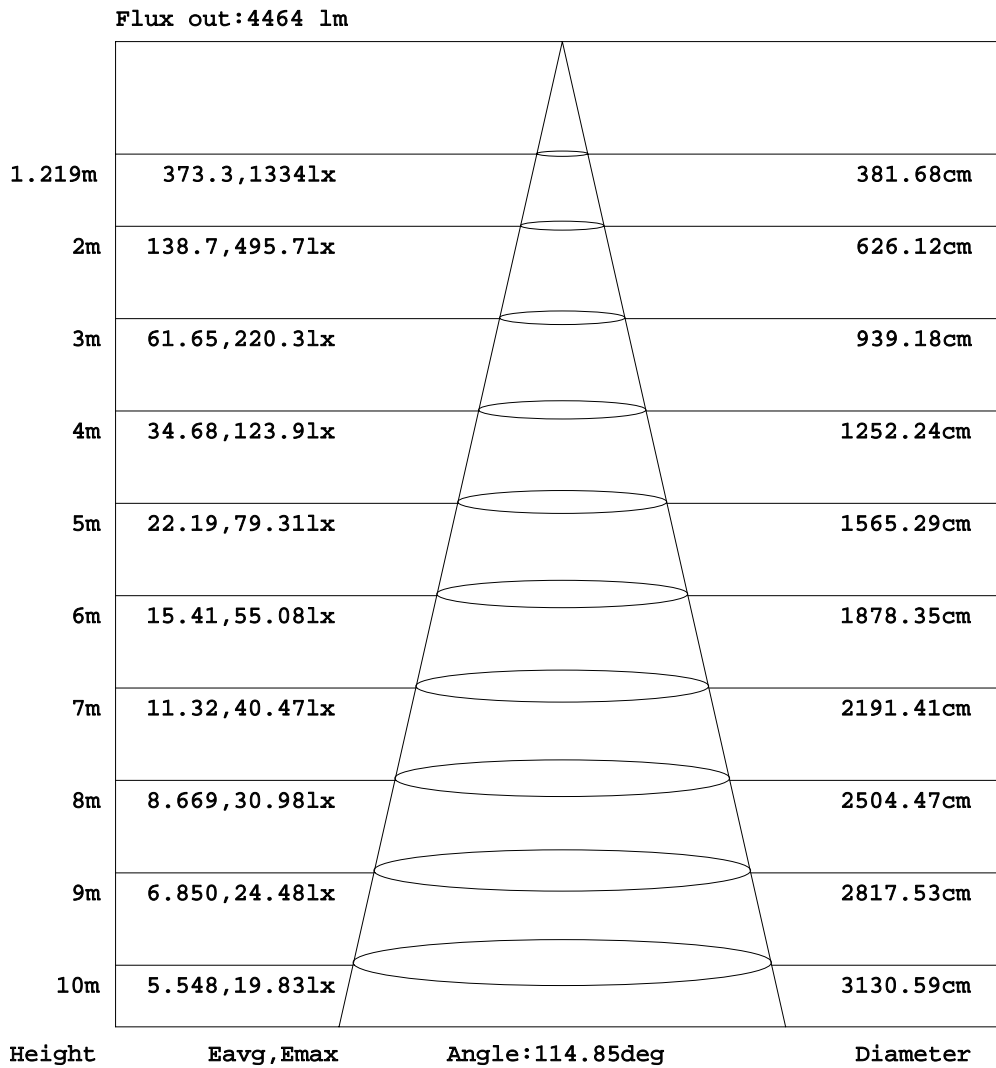


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

AAI Figure

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



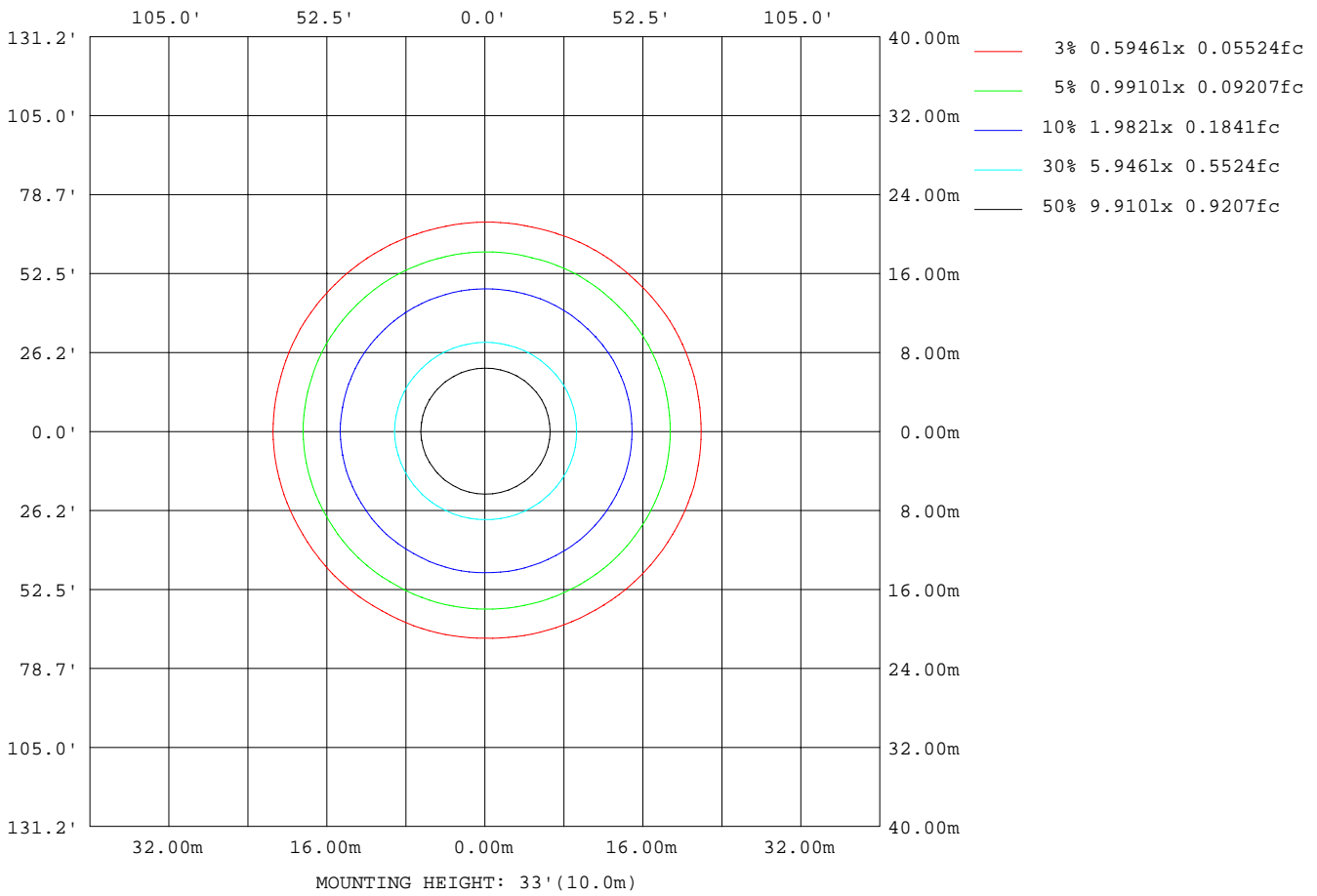
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators:Alan Wang
 Test Date:25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance:2.500m [K=0.9942]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

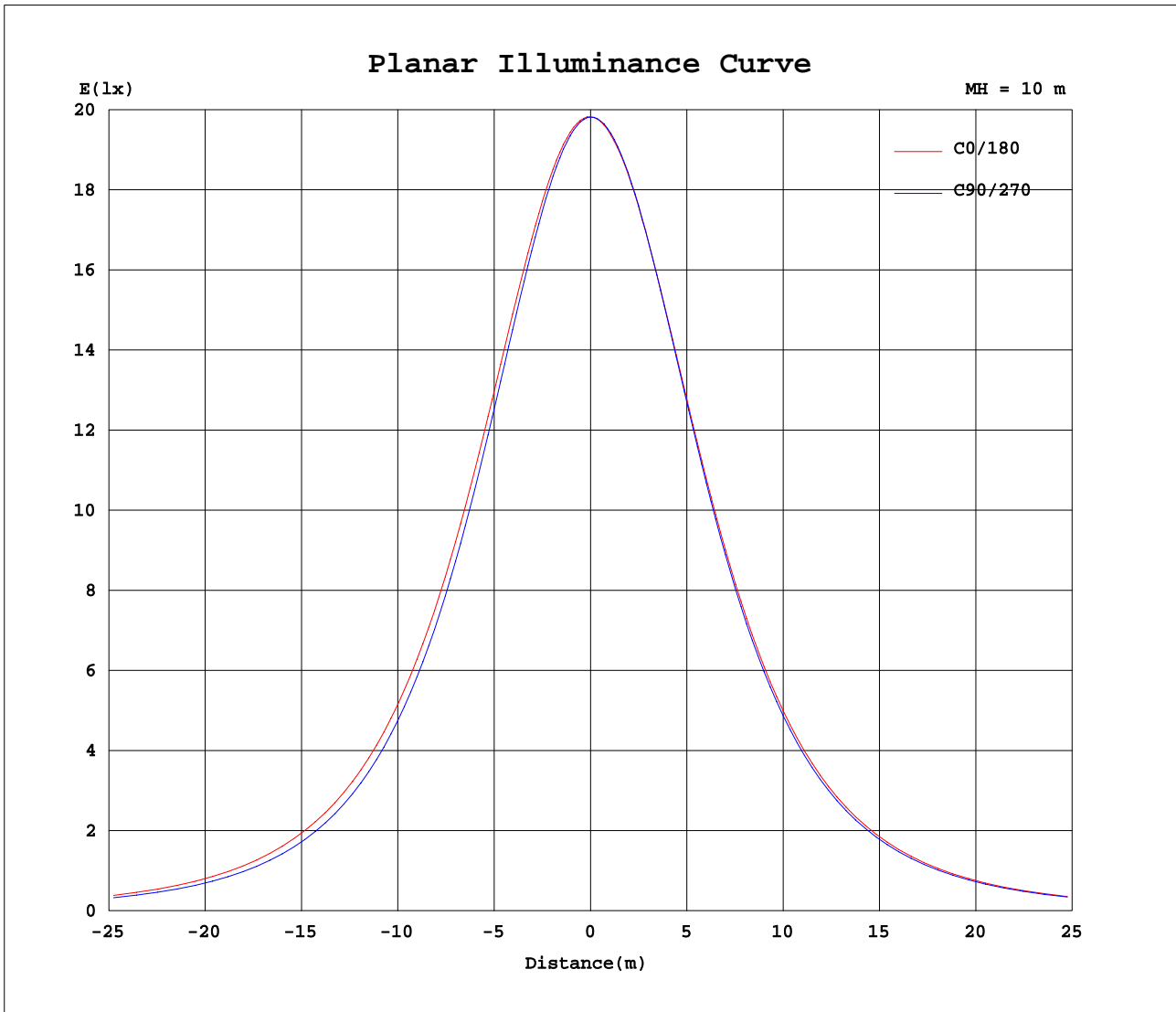
AvgL	cd/m2
L_0~180(65)av	2682
L_0~180(75)av	2441
L_0~180(85)av	1773
L_90~270(65)av	2433
L_90~270(75)av	2142
L_90~270(85)av	1352
L_45(65)av	2554
L_45(75)av	2299
L_45(85)av	1558

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity: 54.1%
Test Distance: 2.500m [K=0.9942]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity: 54.1%
Test Distance: 2.500m [K=0.9942]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982	1982
5	1979	1978	1976	1977	1975	1974	1972	1971	1970	1971	1971	1971	1973	1972	1973	1974	1975	1976	1976
10	1962	1961	1957	1956	1951	1949	1945	1945	1945	1946	1947	1950	1951	1951	1952	1953	1952	1953	1954
15	1932	1932	1925	1921	1913	1909	1904	1903	1904	1907	1909	1913	1916	1915	1916	1916	1915	1916	1918
20	1889	1888	1879	1871	1860	1855	1848	1847	1848	1854	1857	1863	1869	1867	1867	1865	1863	1863	1866
25	1833	1830	1817	1807	1793	1785	1776	1776	1777	1787	1791	1801	1807	1805	1804	1799	1797	1795	1798
30	1762	1759	1743	1729	1711	1699	1690	1690	1692	1703	1710	1723	1730	1727	1725	1717	1714	1711	1716
35	1676	1673	1653	1636	1615	1600	1588	1589	1591	1607	1615	1629	1639	1636	1633	1622	1617	1613	1617
40	1575	1570	1548	1528	1503	1486	1473	1474	1477	1495	1505	1522	1533	1528	1524	1512	1505	1499	1504
45	1457	1454	1428	1406	1378	1358	1344	1346	1349	1369	1380	1400	1412	1406	1401	1387	1379	1372	1377
50	1326	1320	1294	1269	1239	1219	1203	1205	1208	1229	1242	1262	1275	1268	1264	1249	1239	1231	1237
55	1178	1173	1146	1121	1089	1068	1051	1052	1054	1078	1089	1111	1125	1117	1114	1096	1087	1079	1086
60	1017	1013	985	960	928	907	890	892	892	914	925	947	961	954	950	934	926	918	925
65	844	842	815	791	761	741	723	725	723	744	753	774	788	781	779	764	757	751	757
70	664	663	639	618	590	571	554	554	552	570	576	595	609	602	602	590	585	580	587
75	482	482	461	445	419	401	384	383	379	398	401	416	428	423	426	416	414	408	415
80	302	305	289	275	250	235	219	219	213	228	231	243	253	248	255	247	244	239	245
85	133	137	124	112	96.6	85.8	76.1	73.1	65.6	72.1	72.7	82.2	89.6	89.3	91.7	88.6	88.6	89.8	93.6
90	9.66	1.16	4.77	0.29	6.31	0.08	0.12	0.08	0.12	0.08	0.25	0.09	0.34	0.36	0.33	0.33	0.31	4.55	0.31
95	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.45	0.44	0.43	0.43	0.41	0.40	0.39
100	0.19	0.17	0.16	0.16	0.16	0.17	0.16	0.17	0.18	0.19	0.19	0.21	0.55	0.52	0.51	0.50	0.49	0.49	0.48
105	0.24	0.23	0.19	0.19	0.20	0.20	0.20	0.21	0.22	0.23	0.24	0.26	0.59	0.57	0.55	0.55	0.55	0.54	0.54
110	0.28	0.26	0.22	0.20	0.21	0.22	0.23	0.25	0.27	0.29	0.32	0.31	0.56	0.54	0.53	0.53	0.53	0.54	0.54
115	0.37	0.31	0.29	0.25	0.24	0.27	0.29	0.31	0.34	0.36	0.40	0.39	0.55	0.53	0.52	0.50	0.50	0.51	0.52
120	0.48	0.41	0.38	0.32	0.31	0.33	0.35	0.39	0.43	0.47	0.51	0.49	0.64	0.60	0.59	0.54	0.51	0.52	0.52
125	0.57	0.52	0.47	0.42	0.39	0.40	0.44	0.47	0.53	0.57	0.58	0.58	0.74	0.73	0.71	0.69	0.62	0.61	0.61
130	0.65	0.61	0.54	0.51	0.50	0.50	0.52	0.56	0.61	0.63	0.64	0.66	0.80	0.81	0.81	0.83	0.78	0.78	0.77
135	0.72	0.68	0.63	0.58	0.58	0.59	0.60	0.63	0.67	0.68	0.70	0.72	0.86	0.86	0.87	0.91	0.92	0.92	0.90
140	0.75	0.74	0.69	0.63	0.62	0.64	0.65	0.66	0.70	0.72	0.73	0.75	0.89	0.89	0.91	0.94	0.96	0.99	0.97
145	0.79	0.78	0.71	0.66	0.62	0.65	0.66	0.67	0.72	0.74	0.75	0.79	0.95	0.95	0.96	1.00	1.00	1.03	1.03
150	0.81	0.82	0.74	0.68	0.62	0.65	0.64	0.66	0.74	0.76	0.76	0.81	1.02	1.03	1.00	1.06	1.05	1.07	1.04
155	0.86	0.89	0.83	0.72	0.67	0.71	0.65	0.71	0.78	0.80	0.83	0.85	1.06	1.11	1.11	1.13	1.11	1.12	1.08
160	0.96	0.98	0.90	0.78	0.69	0.70	0.65	0.73	0.83	0.87	0.90	0.93	1.17	1.21	1.19	1.21	1.17	1.14	1.09
165	1.05	1.07	1.01	0.89	0.75	0.76	0.71	0.80	0.91	0.97	1.02	1.03	1.19	1.26	1.28	1.29	1.23	1.18	1.09
170	1.14	1.16	1.12	1.03	0.88	0.88	0.85	0.90	0.99	1.05	1.07	1.10	1.21	1.28	1.31	1.34	1.27	1.19	1.13
175	1.19	1.23	1.20	1.16	1.03	1.03	0.96	0.98	1.07	1.06	1.09	1.13	1.22	1.26	1.26	1.26	1.23	1.15	1.13
180	1.19	1.22	1.19	1.17	1.14	1.10	1.06	1.02	1.02	1.06	1.07	1.12	1.19	1.22	1.19	1.17	1.14	1.10	1.06

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3394A P:40.31W PF:0.9911 Freq:60.00Hz Lamp Flux:5989.45x1 lm		
NAME: ASD Lighting Corp	TYPE:LED	WEIGHT:
SPEC.:ASD-BLP-24D4050-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1982	1982	1982	1982	1982														
5	1976	1978	1978	1979	1978														
10	1956	1960	1961	1963	1963														
15	1919	1927	1928	1935	1933														
20	1869	1878	1882	1891	1890														
25	1801	1815	1821	1834	1835														
30	1719	1736	1745	1760	1764														
35	1622	1642	1653	1673	1679														
40	1510	1534	1548	1570	1577														
45	1384	1411	1426	1452	1460														
50	1244	1273	1290	1319	1328														
55	1093	1123	1140	1171	1180														
60	932	962	979	1010	1019														
65	764	793	809	838	847														
70	592	619	632	660	667														
75	420	445	455	480	484														
80	248	272	283	304	305														
85	96.6	112	118	136	138														
90	6.66	0.37	4.00	0.72	11.9														
95	0.40	0.39	0.40	0.39	0.40														
100	0.48	0.48	0.48	0.48	0.49														
105	0.54	0.54	0.54	0.54	0.54														
110	0.54	0.54	0.54	0.53	0.53														
115	0.52	0.51	0.51	0.52	0.51														
120	0.51	0.51	0.53	0.56	0.58														
125	0.59	0.58	0.62	0.64	0.68														
130	0.73	0.71	0.71	0.71	0.75														
135	0.85	0.82	0.78	0.78	0.81														
140	0.91	0.89	0.85	0.84	0.85														
145	0.99	0.96	0.94	0.91	0.93														
150	1.03	1.01	0.99	0.98	1.00														
155	1.07	1.05	1.04	1.06	1.04														
160	1.07	1.03	1.09	1.12	1.14														
165	1.06	1.06	1.11	1.14	1.14														
170	1.08	1.06	1.12	1.16	1.15														
175	1.14	1.05	1.14	1.14	1.15														
180	1.02	1.02	1.06	1.07	1.12														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

Photometric Data Table [cd]

Table with 11 columns representing angles from 0.0 to 135.0 degrees and 11 columns representing angles from 150.0 to 285.0 degrees. Each cell contains a numerical value representing photometric data in candela.

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.1DEG

Operators: Alan Wang

Test Date: 25 March 2020

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362

Humidity: 54.1%

Test Distance: 2.500m [K=0.9942]

Remarks:

Photometric Data Table [cd]

33.0	1655	1669	1677	1674	1672	1663	1658	1654	1658	1663
36.0	1595	1609	1619	1614	1612	1602	1595	1591	1596	1601
39.0	1528	1545	1556	1551	1547	1534	1528	1523	1527	1534
42.0	1457	1475	1486	1481	1477	1463	1456	1449	1454	1461
45.0	1380	1400	1412	1406	1401	1387	1379	1372	1377	1384
48.0	1299	1319	1332	1325	1320	1306	1296	1289	1295	1302
51.0	1212	1233	1246	1239	1235	1219	1209	1202	1208	1216
54.0	1121	1142	1156	1148	1144	1128	1118	1111	1117	1125
57.0	1025	1046	1061	1053	1049	1033	1024	1016	1022	1030
60.0	925.0	947.2	961.0	954.0	950.2	934.4	925.8	918.1	925.1	932.1
63.0	822.9	843.9	858.8	850.9	848.3	833.1	825.1	818.8	825.2	832.1
66.0	718.6	738.8	751.9	745.2	743.5	729.1	722.7	716.4	722.8	729.7
69.0	611.9	630.9	645.0	637.8	637.5	624.8	619.0	613.8	620.3	626.2
72.0	505.8	523.0	536.4	530.2	531.1	519.8	516.4	511.4	518.4	523.4
75.0	400.5	416.1	428.3	422.9	425.8	416.3	414.3	408.3	414.7	420.2
78.0	298.0	310.5	321.4	316.8	322.3	315.3	310.1	304.7	310.8	315.2
81.0	197.5	209.0	218.5	214.9	221.7	213.5	211.0	207.0	213.1	216.4
84.0	100.7	112.4	120.6	118.4	123.6	117.4	117.6	116.8	122.1	125.1
87.0	16.69	35.44	40.35	30.98	41.64	32.22	40.89	36.08	44.93	44.98
90.0	0.2497	0.0862	0.3416	0.3633	0.3319	0.3252	0.3076	4.552	0.3094	6.665
93.0	0.1206	0.1192	0.4033	0.4042	0.3941	0.3876	0.3712	0.3614	0.3503	0.3516
96.0	0.1534	0.1558	0.4730	0.4592	0.4501	0.4434	0.4298	0.4222	0.4114	0.4136
99.0	0.1817	0.1943	0.5310	0.5090	0.4959	0.4895	0.4801	0.4764	0.4655	0.4654
102.0	0.2105	0.2253	0.5696	0.5518	0.5276	0.5245	0.5194	0.5147	0.5079	0.5069
105.0	0.2421	0.2567	0.5920	0.5712	0.5478	0.5487	0.5478	0.5443	0.5434	0.5382
108.0	0.2831	0.2911	0.5769	0.5551	0.5392	0.5453	0.5424	0.5477	0.5502	0.5448
111.0	0.3356	0.3285	0.5571	0.5354	0.5236	0.5265	0.5232	0.5341	0.5351	0.5330
114.0	0.3867	0.3756	0.5528	0.5258	0.5197	0.5070	0.5049	0.5174	0.5231	0.5196
117.0	0.4442	0.4348	0.5734	0.5424	0.5352	0.5040	0.4961	0.5107	0.5182	0.5131
120.0	0.5062	0.4938	0.6386	0.6041	0.5862	0.5434	0.5126	0.5162	0.5228	0.5111
123.0	0.5528	0.5519	0.7052	0.6850	0.6595	0.6293	0.5664	0.5596	0.5550	0.5488
126.0	0.5946	0.6034	0.7581	0.7464	0.7276	0.7163	0.6527	0.6442	0.6433	0.6186
129.0	0.6249	0.6499	0.7947	0.7975	0.7870	0.8063	0.7547	0.7389	0.7383	0.6965
132.0	0.6655	0.6871	0.8268	0.8345	0.8324	0.8671	0.8409	0.8469	0.8395	0.7893
135.0	0.6961	0.7180	0.8568	0.8622	0.8746	0.9063	0.9159	0.9171	0.8962	0.8501
138.0	0.7133	0.7402	0.8726	0.8796	0.8933	0.9301	0.9515	0.9726	0.9440	0.8866
141.0	0.7328	0.7579	0.8973	0.9001	0.9143	0.9465	0.9706	0.9975	0.9861	0.9192
144.0	0.7453	0.7781	0.9321	0.9330	0.9479	0.9868	0.9914	1.022	1.017	0.9637
147.0	0.7555	0.8000	0.9710	0.9766	0.9766	1.028	1.025	1.039	1.041	1.003
150.0	0.7585	0.8098	1.016	1.027	0.9993	1.064	1.055	1.072	1.044	1.032
153.0	0.7968	0.8242	1.042	1.068	1.066	1.097	1.086	1.105	1.072	1.062
156.0	0.8436	0.8691	1.081	1.140	1.122	1.145	1.128	1.117	1.083	1.071
159.0	0.8869	0.9244	1.159	1.198	1.171	1.198	1.164	1.135	1.091	1.075
162.0	0.9384	0.9593	1.168	1.216	1.222	1.232	1.184	1.141	1.085	1.047
165.0	1.019	1.034	1.190	1.258	1.282	1.288	1.229	1.180	1.087	1.055
168.0	1.082	1.101	1.212	1.286	1.320	1.333	1.268	1.199	1.106	1.058
171.0	1.061	1.082	1.218	1.285	1.309	1.332	1.273	1.178	1.135	1.098
174.0	1.092	1.127	1.223	1.272	1.276	1.280	1.240	1.153	1.143	1.125
177.0	1.081	1.126	1.208	1.243	1.230	1.218	1.210	1.118	1.111	1.082
180.0	1.070	1.116	1.189	1.220	1.190	1.170	1.137	1.098	1.059	1.021
G/C	300.0	315.0	330.0	345.0						
0.0	1982	1982	1982	1982						
3.0	1982	1981	1982	1982						
6.0	1976	1976	1978	1977						
9.0	1966	1965	1968	1968						
12.0	1948	1950	1953	1953						
15.0	1927	1928	1935	1933						
18.0	1900	1903	1910	1910						
21.0	1867	1871	1881	1881						
24.0	1829	1835	1845	1848						
27.0	1786	1792	1806	1808						
30.0	1736	1745	1760	1764						
33.0	1682	1691	1710	1715						
36.0	1622	1633	1654	1660						
39.0	1557	1570	1592	1599						
42.0	1486	1501	1525	1532						
45.0	1411	1426	1452	1460						
48.0	1329	1346	1374	1382						
51.0	1244	1261	1290	1299						
54.0	1154	1171	1202	1211						
57.0	1059	1077	1108	1118						
60.0	961.8	979.2	1010	1019						
63.0	861.6	877.4	908.0	917.0						
66.0	757.6	773.0	803.5	811.2						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks:

Photometric Data Table [cd]

69.0	653.1	667.3	695.8	703.1
72.0	548.8	560.7	587.3	594.4
75.0	445.1	455.3	479.8	484.4
78.0	340.8	351.3	373.4	376.4
81.0	238.7	248.7	270.2	270.7
84.0	142.3	149.0	169.5	170.4
87.0	56.23	60.33	73.83	76.99
90.0	0.3669	4.004	0.7236	11.95
93.0	0.3451	0.3559	0.3523	0.3598
96.0	0.4068	0.4142	0.4117	0.4177
99.0	0.4617	0.4675	0.4650	0.4789
102.0	0.5058	0.5084	0.5098	0.5180
105.0	0.5430	0.5405	0.5395	0.5448
108.0	0.5446	0.5455	0.5331	0.5402
111.0	0.5334	0.5308	0.5253	0.5218
114.0	0.5174	0.5126	0.5172	0.5096
117.0	0.5053	0.5059	0.5232	0.5200
120.0	0.5130	0.5342	0.5566	0.5785
123.0	0.5441	0.5833	0.5993	0.6443
126.0	0.6039	0.6423	0.6540	0.6954
129.0	0.6860	0.6999	0.6970	0.7340
132.0	0.7558	0.7439	0.7376	0.7739
135.0	0.8190	0.7805	0.7788	0.8099
138.0	0.8657	0.8194	0.8140	0.8281
141.0	0.9097	0.8723	0.8558	0.8597
144.0	0.9492	0.9285	0.8992	0.9117
147.0	0.9839	0.9567	0.9392	0.9598
150.0	1.008	0.9939	0.9754	1.004
153.0	1.036	1.026	1.025	1.030
156.0	1.044	1.043	1.082	1.060
159.0	1.033	1.075	1.119	1.127
162.0	1.039	1.092	1.121	1.134
165.0	1.058	1.111	1.140	1.137
168.0	1.059	1.129	1.160	1.149
171.0	1.058	1.131	1.164	1.162
174.0	1.035	1.143	1.143	1.151
177.0	1.027	1.117	1.107	1.140
180.0	1.022	1.056	1.070	1.117

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 25 March 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 54.1%
 Test Distance: 2.500m [K=0.9942]
 Remarks: