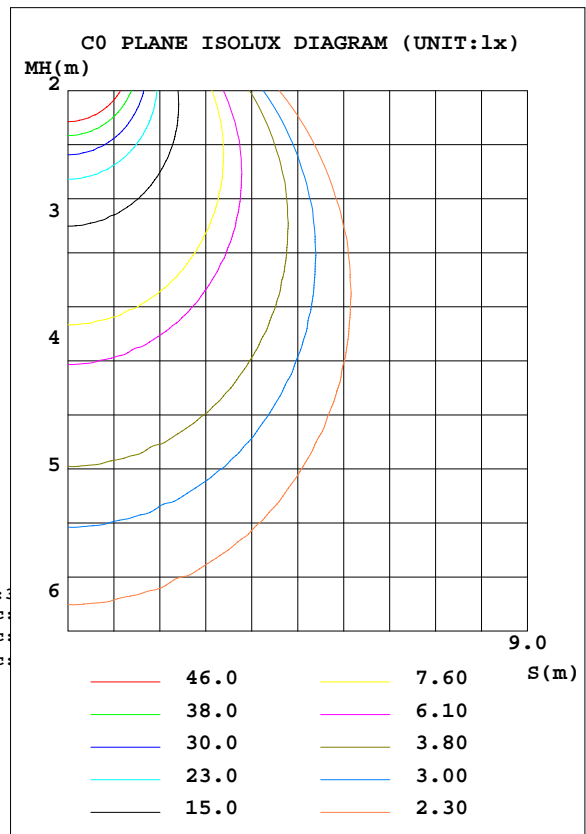
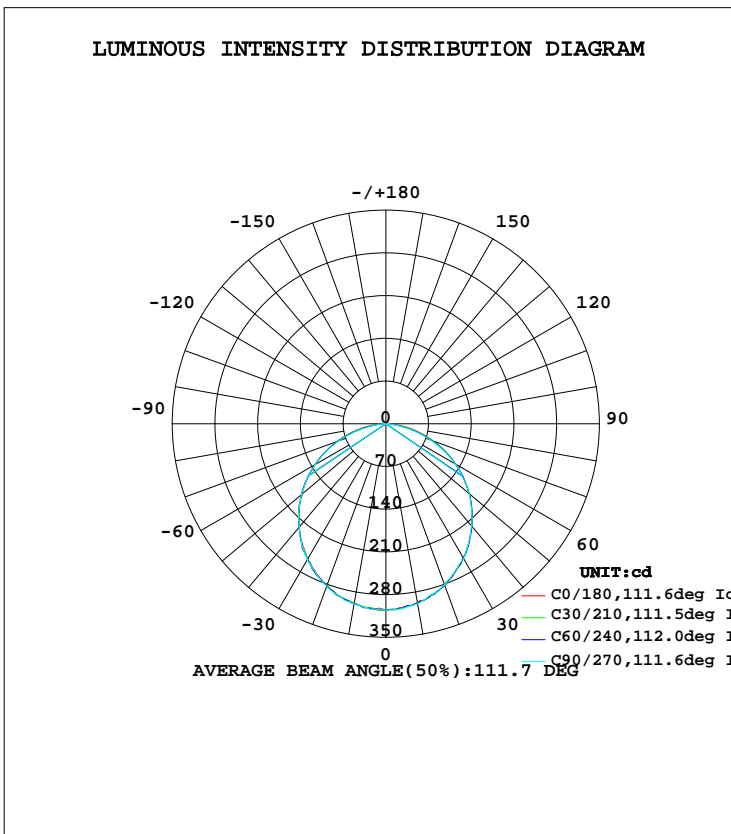


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.29 lm/W			
MODEL	ASD-LMPJBR-4D12CC-BK	I <sub>max</sub> (cd)	306.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	877.21	η UP, DN(C0-180)	1.0, 48.6
NOMINAL FLUX(lm)	877.207	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.1, 49.3
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	97.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	298.1	299.1	299.4	299.4	298.7	297.5	299.9	298.7	0- 10	28.83	28.83	3.29,3.29
20	281.0	281.2	281.1	283.0	281.1	282.0	282.4	282.4	10- 20	82.34	111.2	12.7,12.7
30	253.2	254.4	255.5	253.6	255.9	256.0	257.6	256.7	20- 30	124.3	235.5	26.8,26.8
40	219.3	219.4	218.8	218.5	220.1	222.1	221.3	221.3	30- 40	149.3	384.7	43.9,43.9
50	177.9	178.2	178.4	177.6	179.3	181.2	180.8	179.5	40- 50	154.4	539.2	61.5,61.5
60	132.2	133.2	130.9	132.3	133.8	134.4	133.6	133.9	50- 60	139.9	679.1	77.4,77.4
70	83.16	82.28	77.66	80.97	84.91	83.51	81.54	83.33	60- 70	106.8	785.8	89.6,89.6
80	36.81	30.38	25.33	30.10	38.90	32.22	28.64	31.87	70- 80	59.67	845.5	96.4,96.4
90	2.302	2.429	2.839	2.387	3.453	2.945	3.457	2.900	80- 90	13.59	859.1	97.9,97.9
100	2.365	2.372	2.330	2.353	2.738	2.719	2.715	2.746	90-100	2.778	861.9	98.3,98.3
110	2.526	2.515	2.518	2.500	2.858	2.846	2.858	2.869	100-110	2.767	864.7	98.6,98.6
120	2.642	2.669	2.653	2.635	2.981	2.981	2.977	2.992	110-120	2.730	867.4	98.9,98.9
130	2.823	2.819	2.807	2.785	3.104	3.077	3.085	3.108	120-130	2.584	870.0	99.2,99.2
140	3.008	2.993	3.000	2.993	3.231	3.196	3.174	3.227	130-140	2.341	872.3	99.4,99.4
150	3.208	3.220	3.227	3.204	3.351	3.331	3.320	3.347	140-150	2.003	874.3	99.7,99.7
160	3.424	3.393	3.416	3.412	3.466	3.466	3.455	3.462	150-160	1.551	875.9	99.8,99.8
170	3.566	3.547	3.562	3.563	3.574	3.586	3.597	3.586	160-170	0.9923	876.9	100,100
180	3.643	3.647	3.643	3.659	3.636	3.643	3.636	3.647	170-180	0.3439	877.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

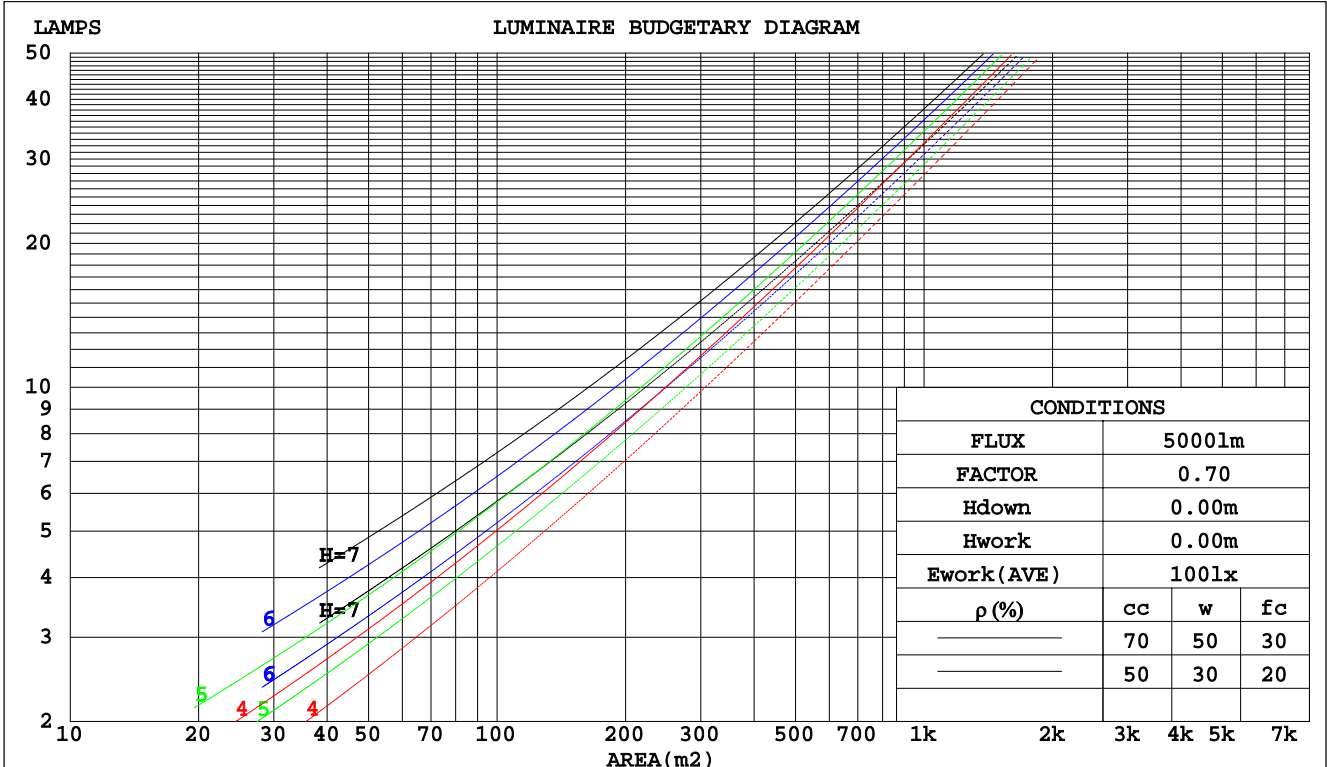
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:wxh  
Test Date:2019-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.04	.99	.96	1.01	.97	.94	.96	.93	.90	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.83	.78	.88	.82	.77	.84	.79	.75	.81	.76	.73	.77	.74	.71	.68
3.0	.79	.71	.65	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.55	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION 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	.306	.174	.055	.298	.170	.054	.283	.163	.052	.270	.156	.050	.258	.150	.048	
2.0	.289	.158	.049	.282	.155	.048	.269	.150	.047	.258	.145	.045	.247	.140	.044	
3.0	.268	.143	.043	.262	.140	.042	.251	.136	.041	.240	.132	.040	.230	.128	.039	
4.0	.248	.129	.038	.242	.127	.037	.232	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.229	.117	.034	.224	.115	.034	.215	.112	.033	.207	.109	.032	.199	.106	.032	
6.0	.213	.107	.030	.208	.105	.030	.200	.103	.030	.193	.100	.029	.186	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.174	.090	.027	
8.0	.185	.090	.025	.181	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.073	.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	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.196	.172	.151	.168	.148	.130	.115	.102	.090	.066	.059	.052	.021	.019	.017	
2.0	.188	.148	.114	.161	.127	.099	.110	.088	.069	.064	.051	.040	.020	.017	.013	
3.0	.180	.130	.091	.154	.112	.079	.106	.078	.055	.061	.046	.032	.020	.015	.011	
4.0	.173	.117	.075	.148	.101	.065	.102	.070	.046	.059	.041	.027	.019	.013	.009	
5.0	.165	.107	.064	.142	.092	.055	.098	.064	.039	.057	.038	.023	.018	.012	.008	
6.0	.158	.098	.056	.136	.085	.048	.094	.060	.034	.054	.035	.020	.018	.011	.007	
7.0	.151	.091	.050	.130	.079	.043	.090	.056	.031	.052	.033	.018	.017	.011	.006	
8.0	.145	.086	.045	.125	.074	.039	.086	.052	.028	.050	.031	.017	.016	.010	.006	
9.0	.139	.081	.042	.120	.070	.036	.083	.049	.026	.048	.029	.015	.016	.010	.005	
10.0	.133	.077	.039	.115	.066	.034	.080	.047	.024	.046	.028	.014	.015	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:wxh  
 Test Date:2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm										
NAME: ASD-LMPJBR-4D12CC-BK					TYPE:			WEIGHT:		
SPEC.: 4000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.2	17.7	16.5	18.0	18.2	16.2	17.7	16.5	17.9	18.2
3H	17.8	19.2	18.1	19.4	19.7	17.6	19.0	18.0	19.3	19.6
4H	18.4	19.7	18.8	20.0	20.3	18.1	19.5	18.5	19.7	20.0
6H	18.9	20.1	19.2	20.4	20.7	18.4	19.6	18.8	19.9	20.3
8H	19.0	20.2	19.4	20.5	20.9	18.4	19.6	18.8	19.9	20.3
12H	19.1	20.2	19.5	20.6	20.9	18.4	19.6	18.8	19.9	20.2
4H 2H	16.9	18.2	17.2	18.4	18.7	16.8	18.1	17.2	18.4	18.7
3H	18.6	19.7	19.0	20.0	20.4	18.4	19.6	18.8	19.9	20.2
4H	19.3	20.4	19.7	20.7	21.1	19.0	20.1	19.4	20.4	20.8
6H	19.9	20.8	20.3	21.2	21.6	19.4	20.3	19.8	20.7	21.1
8H	20.1	21.0	20.5	21.4	21.8	19.5	20.3	19.9	20.7	21.2
12H	20.2	21.0	20.7	21.4	21.9	19.4	20.2	19.9	20.7	21.1
8H 4H	19.5	20.4	20.0	20.8	21.2	19.3	20.1	19.7	20.5	21.0
6H	20.2	21.0	20.7	21.4	21.9	19.8	20.5	20.2	20.9	21.4
8H	20.5	21.1	21.0	21.6	22.1	19.9	20.5	20.4	21.0	21.4
12H	20.7	21.2	21.2	21.7	22.2	19.9	20.4	20.4	20.9	21.4
12H 4H	19.5	20.3	20.0	20.7	21.2	19.3	20.1	19.7	20.5	20.9
6H	20.3	20.9	20.8	21.4	21.9	19.8	20.4	20.3	20.9	21.4
8H	20.6	21.1	21.1	21.6	22.1	19.9	20.5	20.4	20.9	21.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 877.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.5)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:

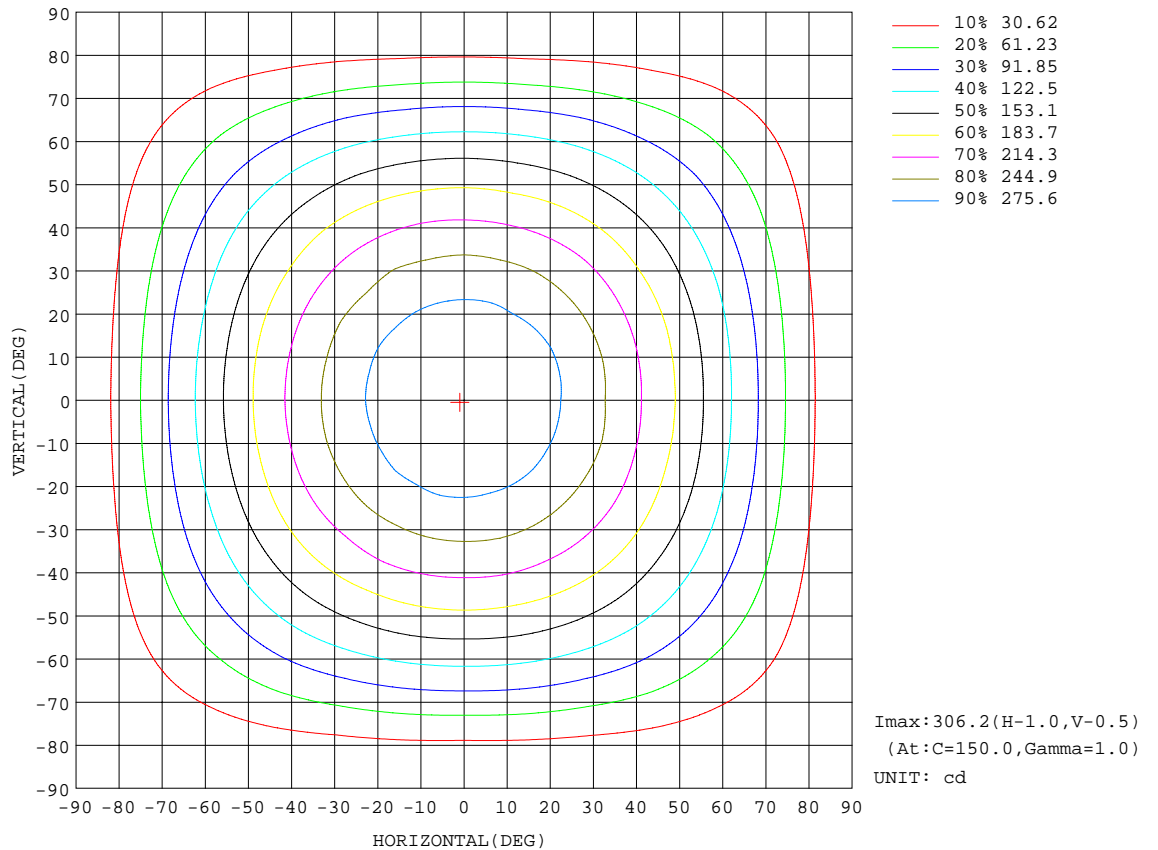
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	79	92	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	98	101	97	94	84
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:25.3DEG  
 Operators:wxh  
 Test Date:2019-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:

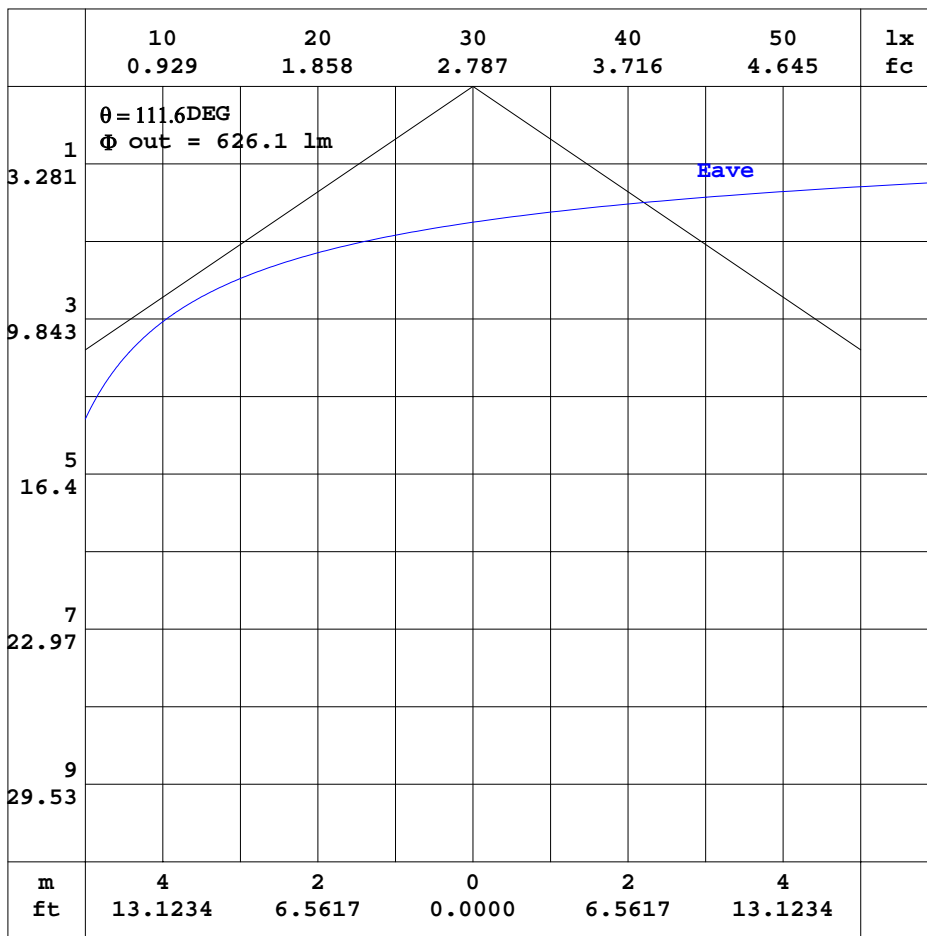


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

AAI CURVES

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:



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

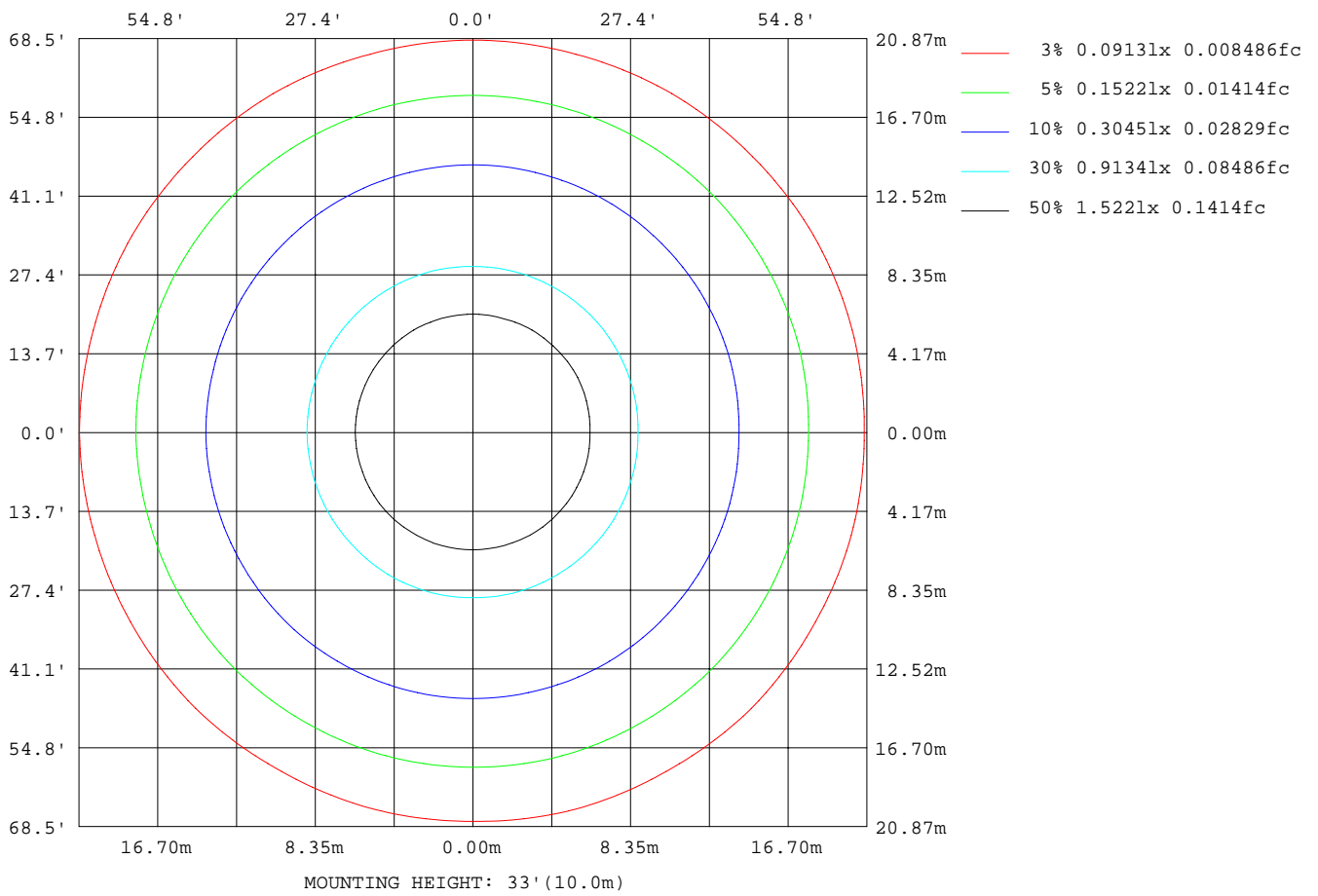
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:wxh  
 Test Date:2019-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:

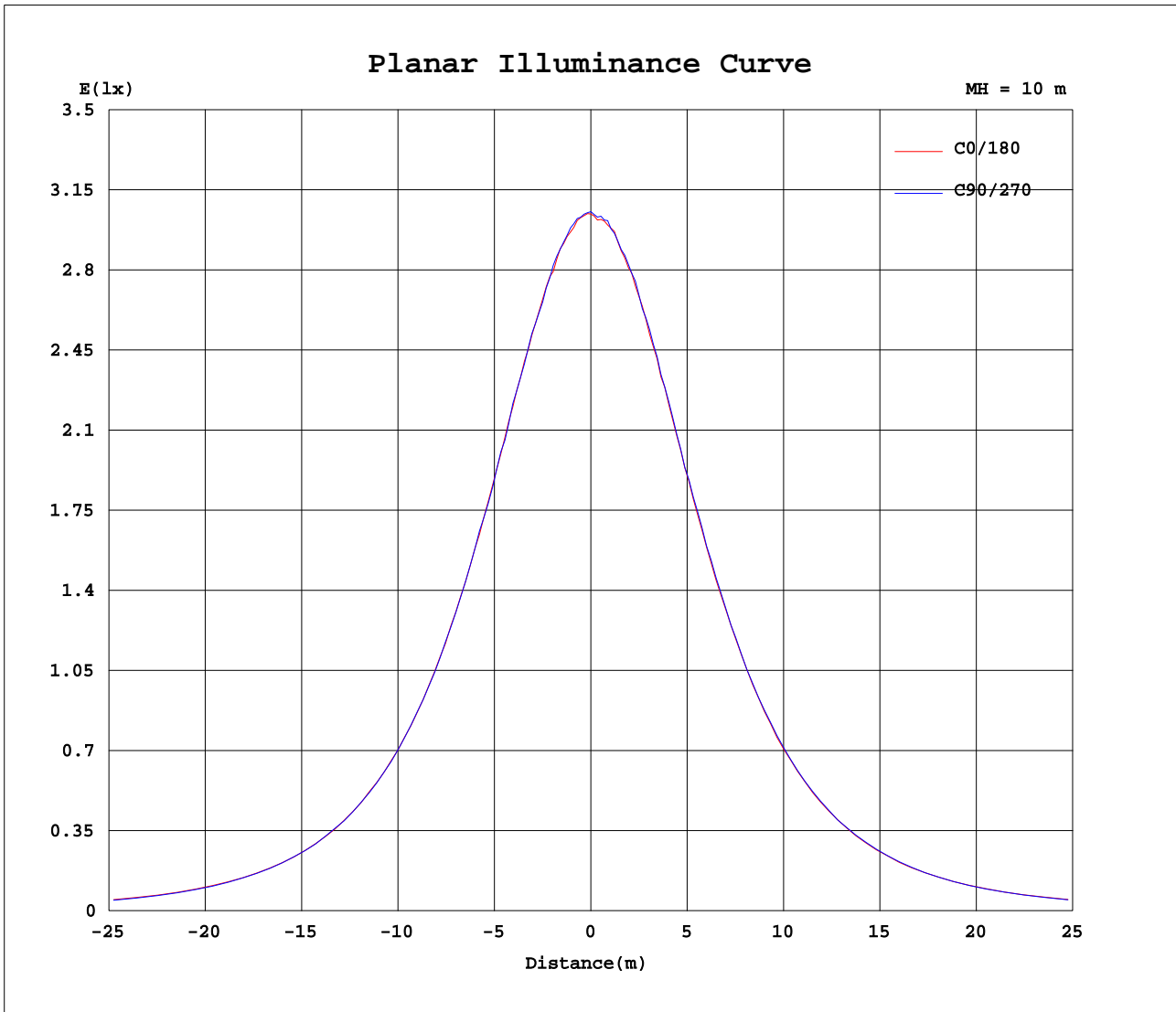
AvgL	cd/m2
L_0~180(65)av	2560
L_0~180(75)av	2329
L_0~180(85)av	2028
L_90~270(65)av	2523
L_90~270(75)av	2031
L_90~270(85)av	612
L_45(65)av	2563
L_45(75)av	2185
L_45(85)av	977

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:wxh  
Test Date:2019-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	PROTECTION 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	304	304	305	304	306	305	305	305	306	305	304	306	304	304	305	304	306	305	305
5	302	302	305	303	303	304	304	303	304	304	305	304	303	304	302	303	304	303	305
10	298	299	297	299	298	300	299	299	299	299	299	299	299	300	299	298	300	299	300
15	291	291	289	291	291	291	290	291	291	291	291	293	293	291	292	293	293	291	292
20	281	281	281	281	282	282	281	282	279	283	282	281	281	283	282	282	283	283	282
25	268	269	269	269	268	269	269	270	269	270	268	270	270	271	271	270	272	271	271
30	253	255	254	254	255	254	256	254	254	254	254	256	256	256	257	256	257	256	258
35	237	239	237	239	238	238	237	238	236	238	238	239	240	238	240	239	240	240	241
40	219	219	219	219	219	219	219	220	220	218	219	219	220	221	221	222	221	222	221
45	199	200	200	200	199	200	199	198	199	199	200	200	200	201	201	202	202	201	202
50	178	178	179	178	178	178	178	178	177	178	177	178	179	180	180	181	180	181	181
55	155	156	156	156	156	155	155	155	155	155	155	156	157	157	158	158	158	158	158
60	132	132	132	133	132	132	131	131	131	132	131	132	134	134	135	134	134	134	134
65	107	109	108	108	106	106	105	105	105	107	107	108	109	110	110	109	109	108	109
70	83.2	83.9	82.6	82.3	79.2	78.9	77.7	78.4	78.8	81.0	81.9	83.9	84.9	85.1	85.0	83.5	83.5	81.8	81.5
75	59.1	59.3	57.1	55.8	52.9	52.1	50.5	52.0	52.4	55.0	56.5	59.2	61.4	60.5	59.9	57.7	56.8	54.6	54.6
80	36.8	35.6	32.4	30.4	27.5	26.5	25.3	26.4	27.2	30.1	32.4	35.8	38.9	37.0	35.3	32.2	30.7	28.5	28.6
85	16.7	11.6	10.4	7.82	5.41	5.06	4.50	5.18	5.61	8.12	10.8	15.2	18.6	15.9	12.8	9.02	7.44	6.01	6.16
90	2.30	2.37	2.28	2.43	2.79	2.97	2.84	3.00	2.84	2.39	2.30	2.35	3.45	2.80	2.80	2.95	3.29	3.35	3.46
95	2.29	2.30	2.31	2.30	2.31	2.51	2.50	2.49	2.31	2.27	2.28	2.28	2.68	2.69	2.67	2.69	2.79	2.83	2.82
100	2.36	2.38	2.40	2.37	2.36	2.36	2.33	2.35	2.35	2.35	2.37	2.36	2.74	2.74	2.74	2.72	2.71	2.71	2.72
105	2.43	2.45	2.45	2.46	2.44	2.42	2.42	2.42	2.44	2.43	2.45	2.44	2.80	2.81	2.80	2.80	2.78	2.78	2.78
110	2.53	2.52	2.52	2.52	2.52	2.51	2.52	2.51	2.50	2.50	2.51	2.50	2.86	2.86	2.85	2.85	2.84	2.84	2.86
115	2.59	2.59	2.59	2.58	2.58	2.59	2.57	2.57	2.59	2.58	2.60	2.58	2.92	2.92	2.91	2.91	2.91	2.91	2.92
120	2.64	2.67	2.67	2.67	2.65	2.64	2.65	2.65	2.63	2.63	2.65	2.65	2.98	2.99	2.97	2.98	2.97	2.97	2.98
125	2.74	2.74	2.75	2.72	2.73	2.72	2.73	2.72	2.70	2.72	2.74	2.73	3.05	3.03	3.02	3.02	3.01	3.00	3.03
130	2.82	2.81	2.80	2.82	2.80	2.80	2.81	2.80	2.81	2.78	2.81	2.81	3.10	3.10	3.09	3.08	3.06	3.07	3.09
135	2.91	2.90	2.90	2.90	2.89	2.90	2.91	2.88	2.90	2.90	2.91	2.90	3.17	3.16	3.16	3.14	3.12	3.15	3.14
140	3.01	3.03	3.01	2.99	3.01	2.99	3.00	2.99	2.99	2.99	3.00	3.01	3.23	3.21	3.22	3.20	3.18	3.20	3.17
145	3.13	3.11	3.10	3.10	3.10	3.10	3.11	3.11	3.11	3.10	3.12	3.12	3.30	3.27	3.27	3.27	3.25	3.25	3.29
150	3.21	3.19	3.21	3.22	3.22	3.20	3.23	3.20	3.23	3.20	3.22	3.22	3.35	3.32	3.35	3.33	3.32	3.34	3.32
155	3.32	3.31	3.33	3.30	3.32	3.30	3.31	3.30	3.32	3.29	3.31	3.30	3.41	3.40	3.39	3.39	3.38	3.39	3.39
160	3.42	3.41	3.40	3.39	3.41	3.42	3.42	3.41	3.40	3.41	3.42	3.42	3.47	3.46	3.46	3.47	3.44	3.46	3.45
165	3.49	3.47	3.48	3.48	3.49	3.48	3.50	3.49	3.48	3.49	3.50	3.50	3.53	3.54	3.53	3.52	3.50	3.53	3.54
170	3.57	3.55	3.54	3.55	3.55	3.55	3.56	3.54	3.57	3.56	3.58	3.59	3.57	3.60	3.57	3.59	3.56	3.59	3.60
175	3.60	3.60	3.62	3.60	3.61	3.62	3.60	3.62	3.63	3.62	3.63	3.61	3.62	3.63	3.61	3.62	3.62	3.60	3.62
180	3.64	3.64	3.64	3.65	3.65	3.64	3.64	3.66	3.66	3.66	3.64	3.66	3.64	3.64	3.64	3.64	3.64	3.64	3.64

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: wxh  
 Test Date: 2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.0979A P:11.50W PF:0.9794 Lamp Flux:877.207x1 lm		
NAME: ASD-LMPJBR-4D12CC-BK	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp.	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	305	306	305	304	306														
5	303	305	304	305	305														
10	300	300	299	299	299														
15	292	293	293	293	293														
20	283	283	282	282	282														
25	271	270	271	271	270														
30	257	255	257	256	255														
35	239	241	239	240	239														
40	221	221	221	221	220														
45	201	202	200	201	201														
50	180	180	180	180	179														
55	158	158	157	157	157														
60	134	134	134	134	134														
65	108	109	109	110	109														
70	81.1	82.9	83.3	85.3	84.6														
75	54.4	56.2	57.7	60.0	60.5														
80	28.1	30.4	31.9	35.2	36.8														
85	6.07	7.49	9.09	12.5	13.1														
90	3.34	3.36	2.90	2.82	2.77														
95	2.81	2.79	2.70	2.68	2.69														
100	2.72	2.74	2.75	2.75	2.75														
105	2.79	2.79	2.80	2.81	2.81														
110	2.85	2.87	2.87	2.88	2.88														
115	2.90	2.91	2.94	2.93	2.93														
120	2.99	2.96	2.99	3.00	3.00														
125	3.03	3.03	3.05	3.05	3.07														
130	3.08	3.09	3.11	3.11	3.12														
135	3.14	3.14	3.17	3.16	3.17														
140	3.20	3.20	3.23	3.25	3.24														
145	3.27	3.27	3.28	3.29	3.31														
150	3.33	3.34	3.35	3.35	3.35														
155	3.41	3.40	3.42	3.39	3.42														
160	3.46	3.45	3.46	3.48	3.48														
165	3.57	3.55	3.53	3.54	3.53														
170	3.60	3.59	3.59	3.57	3.59														
175	3.62	3.64	3.63	3.63	3.64														
180	3.65	3.67	3.65	3.65	3.67														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:wxh  
 Test Date:2019-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks: