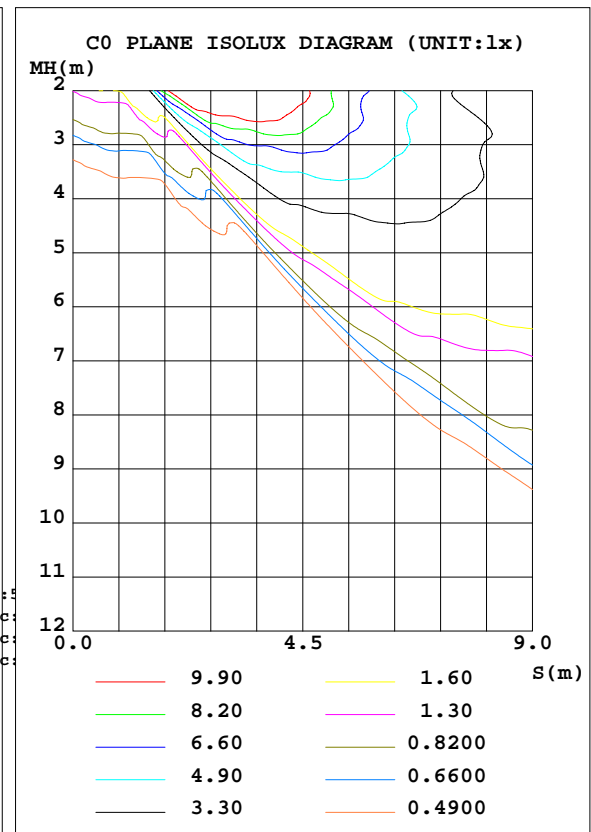
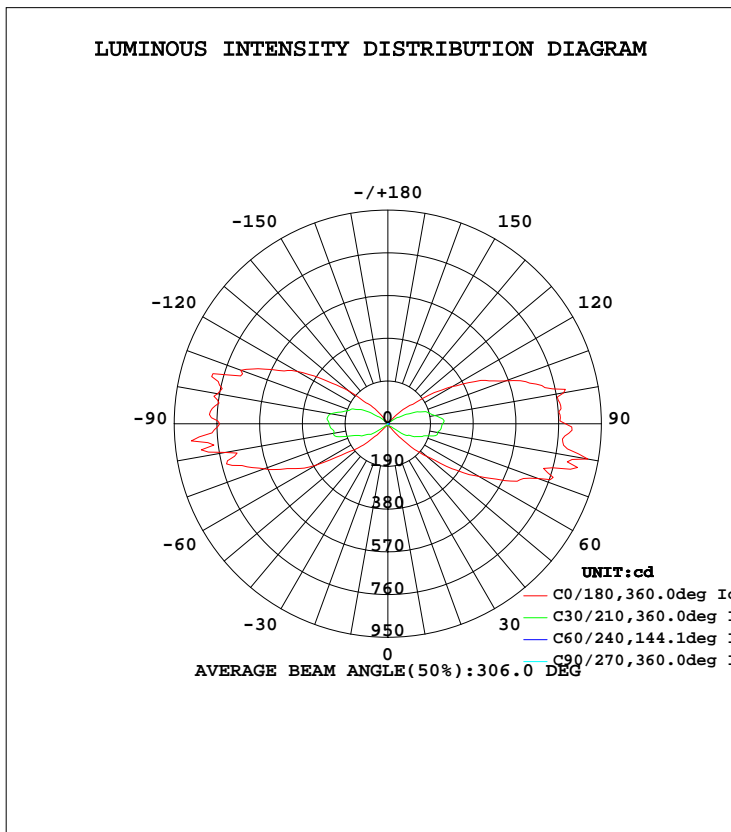


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.99 lm/W			
ASD-OLCLR-MV-2D18CC-EM-BZ/BK		Imax(cd)	999.7	S/MH(C0/180)	11.86
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.73
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1676.8	η UP, DN(C0-180)	23.7,25.8
NOMINAL FLUX(lm)	1676.81	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	25.1,25.4
LAMPS INSIDE	1	η up(%)	48.8	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	51.2	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	6.406	3.975	2.038	3.952	5.542	3.081	2.349	4.224	0- 10	0.3583	0.3583	0.02,0.02
20	7.685	4.896	1.787	4.760	6.510	3.188	2.430	5.364	10- 20	1.214	1.572	0.09,0.09
30	15.30	5.912	1.772	5.292	8.250	3.670	2.580	6.446	20- 30	2.393	3.965	0.24,0.24
40	65.49	7.115	1.814	11.48	23.02	3.916	2.708	12.13	30- 40	5.748	9.712	0.58,0.58
50	226.7	9.543	1.860	18.80	155.9	4.982	2.842	17.60	40- 50	25.62	35.33	2.11,2.11
60	469.4	15.29	1.949	85.39	367.9	11.63	3.008	87.14	50- 60	82.47	117.8	7.03,7.03
70	712.3	18.02	1.956	138.2	586.3	13.06	3.116	149.5	60- 70	168.8	286.6	17.1,17.1
80	902.8	19.14	1.960	202.4	737.0	20.85	3.162	205.5	70- 80	263.4	550.1	32.8,32.8
90	790.4	19.26	1.964	223.2	748.5	24.51	3.181	216.3	80- 90	309.0	859.1	51.2,51.2
100	793.6	18.86	1.964	197.8	769.7	21.29	3.143	197.4	90-100	292.4	1151	68.7,68.7
110	557.6	17.51	1.933	167.4	696.0	13.76	3.085	157.5	100-110	249.9	1401	83.6,83.6
120	331.6	13.86	1.841	83.57	465.5	11.66	2.992	64.49	110-120	163.9	1565	93.3,93.3
130	127.5	9.499	1.598	18.62	227.5	7.833	2.726	18.39	120-130	77.90	1643	98,98
140	18.54	6.319	1.598	6.126	73.82	3.638	2.492	11.73	130-140	24.56	1668	99.5,99.5
150	8.747	5.360	1.591	3.882	14.12	2.761	2.380	6.934	140-150	5.535	1673	99.8,99.8
160	6.728	4.282	1.587	3.458	6.589	2.473	2.276	5.573	150-160	2.152	1675	99.9,99.9
170	5.346	3.419	1.821	3.382	5.260	2.526	2.249	4.402	160-170	1.089	1676	100,100
180	4.987	2.861	2.203	3.593	4.980	2.861	2.199	3.597	170-180	0.3314	1677	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

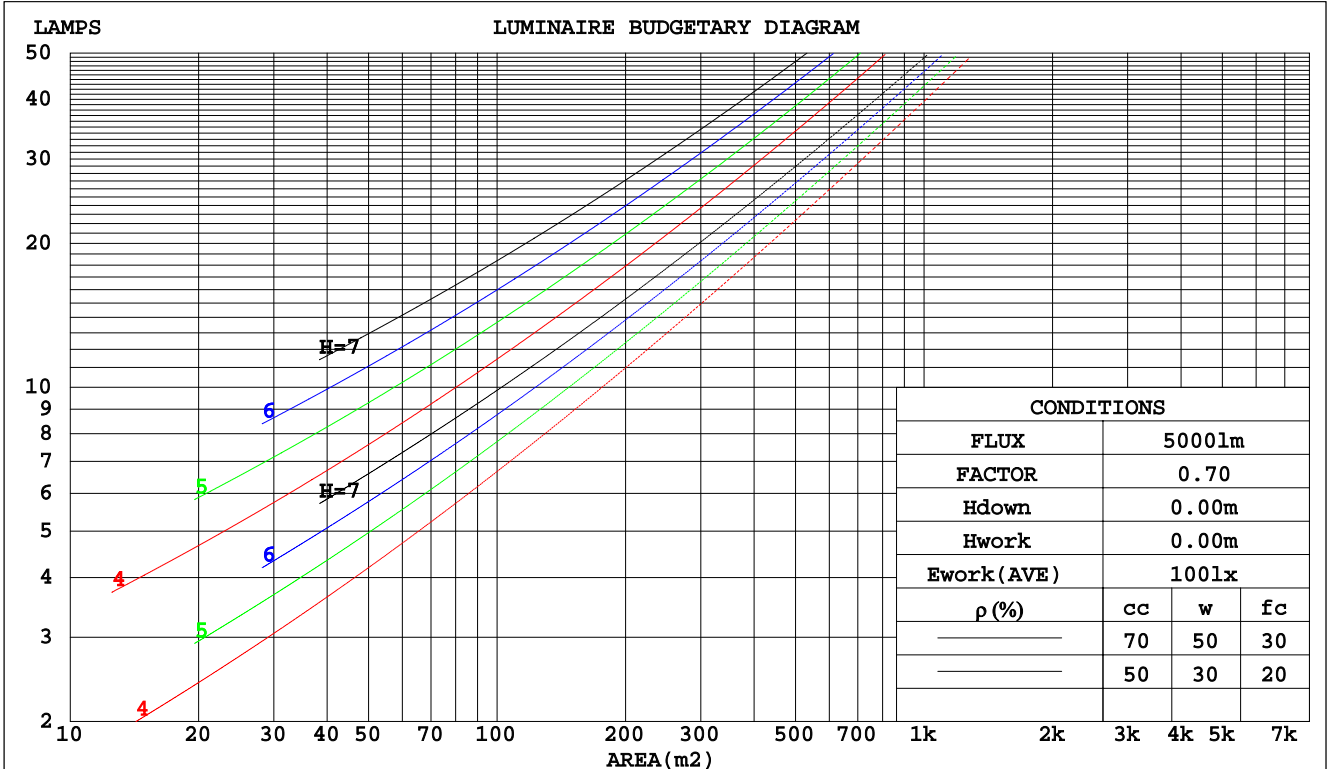
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-14

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.80	.73	.66	.73	.66	.60	.60	.54	.49	.47	.43	.39	.36	.33	.30	.24
2.0	.65	.56	.47	.59	.50	.43	.47	.40	.34	.37	.31	.26	.27	.22	.19	.13
3.0	.55	.44	.36	.50	.40	.32	.39	.32	.26	.30	.24	.19	.21	.17	.13	.08
4.0	.47	.37	.28	.43	.33	.26	.34	.26	.20	.26	.19	.14	.18	.13	.09	.05
5.0	.41	.31	.23	.37	.28	.21	.30	.22	.16	.22	.16	.11	.16	.11	.07	.03
6.0	.37	.27	.19	.33	.24	.17	.26	.19	.13	.20	.14	.09	.14	.09	.06	.02
7.0	.33	.23	.16	.30	.21	.15	.24	.16	.11	.18	.12	.08	.13	.08	.05	.02
8.0	.29	.20	.14	.27	.18	.13	.21	.14	.10	.16	.11	.07	.12	.07	.04	.01
9.0	.27	.18	.12	.24	.16	.11	.19	.13	.08	.15	.10	.06	.11	.06	.03	.01
10.0	.24	.16	.11	.22	.15	.10	.18	.12	.07	.14	.09	.05	.10	.06	.03	.01



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	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	.537	.305	.097	.515	.294	.093	.473	.271	.087	.434	.250	.080	.399	.231	.074	
2.0	.419	.229	.070	.398	.219	.068	.360	.200	.062	.324	.182	.057	.291	.165	.052	
3.0	.350	.186	.056	.331	.177	.053	.296	.160	.049	.263	.144	.044	.233	.129	.040	
4.0	.302	.157	.046	.285	.149	.044	.253	.134	.040	.223	.120	.036	.195	.106	.032	
5.0	.267	.136	.039	.251	.129	.038	.221	.115	.034	.194	.102	.030	.168	.090	.027	
6.0	.239	.120	.034	.225	.113	.033	.197	.101	.029	.172	.089	.026	.148	.078	.023	
7.0	.217	.107	.030	.203	.101	.029	.178	.090	.026	.155	.079	.023	.132	.069	.020	
8.0	.198	.097	.027	.186	.092	.026	.163	.081	.023	.141	.071	.021	.120	.062	.018	
9.0	.183	.088	.025	.171	.084	.023	.150	.074	.021	.129	.065	.019	.110	.056	.016	
10.0	.170	.081	.023	.159	.077	.021	.139	.068	.019	.120	.059	.017	.101	.051	.015	

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	.562	.562	.562	.480	.480	.480	.328	.328	.328	.188	.188	.188	.060	.060	.060	
1.0	.571	.529	.491	.488	.454	.423	.334	.312	.292	.192	.181	.170	.062	.058	.055	
2.0	.566	.508	.460	.485	.438	.397	.332	.303	.277	.192	.176	.163	.061	.057	.053	
3.0	.559	.494	.442	.479	.426	.383	.329	.296	.269	.190	.173	.159	.061	.056	.052	
4.0	.551	.483	.431	.473	.417	.375	.325	.291	.264	.188	.170	.156	.060	.055	.051	
5.0	.542	.474	.424	.466	.410	.369	.321	.287	.260	.186	.168	.155	.060	.055	.051	
6.0	.534	.467	.419	.459	.404	.365	.317	.283	.258	.184	.167	.153	.059	.054	.051	
7.0	.526	.461	.415	.453	.400	.362	.313	.280	.256	.182	.165	.153	.059	.054	.050	
8.0	.519	.456	.412	.447	.395	.359	.309	.278	.255	.180	.164	.152	.058	.054	.050	
9.0	.512	.451	.410	.441	.392	.358	.306	.275	.254	.178	.163	.151	.058	.053	.050	
10.0	.506	.447	.408	.436	.388	.356	.303	.273	.253	.177	.162	.151	.057	.053	.050	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm										
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K					TYPE:LED			WEIGHT:		
SPEC.:					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	17.2	18.4	18.1	19.3	20.5	-10.9	-9.6	-10.0	-8.7	-7.5
3H	24.1	25.2	24.9	26.1	27.3	-9.2	-8.1	-8.3	-7.1	-5.9
4H	27.4	28.5	28.3	29.5	30.7	-8.2	-7.1	-7.3	-6.2	-4.9
6H	30.7	31.7	31.6	32.7	33.9	-7.0	-6.0	-6.1	-5.0	-3.8
8H	32.1	33.0	33.0	34.0	35.3	-6.3	-5.3	-5.3	-4.3	-3.1
12H	33.5	34.5	34.4	35.4	36.7	-5.4	-4.5	-4.5	-3.5	-2.2
4H 2H	16.8	17.8	17.6	18.8	20.0	4.0	5.0	4.9	6.0	7.2
3H	23.8	24.8	24.8	25.8	27.0	3.8	4.7	4.7	5.7	6.9
4H	27.6	28.5	28.6	29.5	30.8	3.7	4.5	4.6	5.5	6.8
6H	31.2	32.0	32.2	33.0	34.3	3.6	4.4	4.6	5.4	6.7
8H	32.8	33.6	33.8	34.6	35.9	3.6	4.4	4.6	5.4	6.7
12H	34.6	35.3	35.5	36.3	37.6	3.6	4.4	4.6	5.4	6.7
8H 4H	27.4	28.2	28.4	29.2	30.5	13.4	14.1	14.3	15.1	16.4
6H	31.2	31.8	32.1	32.8	34.2	13.2	13.9	14.2	14.9	16.2
8H	33.0	33.6	34.0	34.6	36.0	13.1	13.7	14.1	14.8	16.1
12H	35.1	35.7	36.1	36.7	38.1	13.1	13.6	14.1	14.7	16.0
12H 4H	27.3	28.0	28.3	29.0	30.3	16.7	17.5	17.7	18.5	19.8
6H	31.1	31.7	32.1	32.7	34.0	16.7	17.3	17.7	18.4	19.7
8H	32.9	33.5	33.9	34.5	35.9	16.7	17.2	17.7	18.2	19.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.1					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.2					+ 1.0 / - 0.4				
2.0H	+ 0.5 / - 0.5					+ 1.4 / - 2.1				

CIE Pub.117 Corrected 1677 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

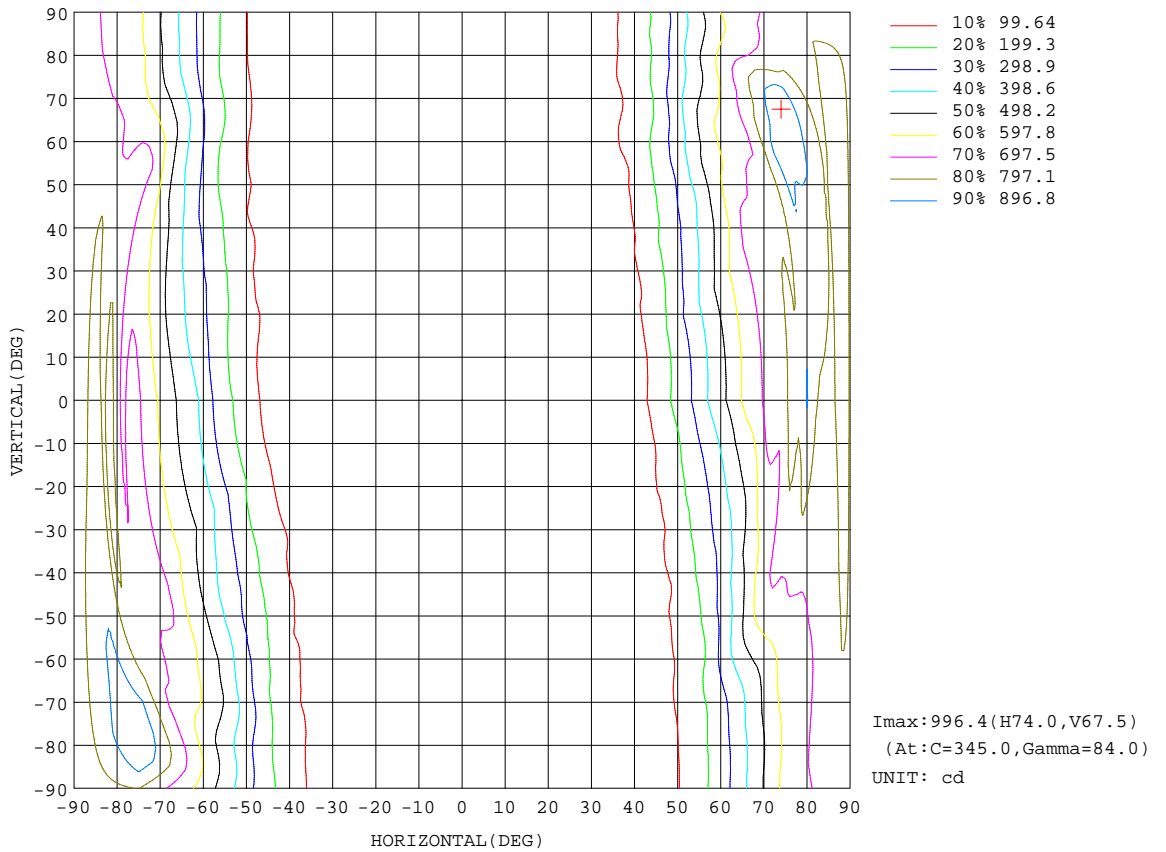
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	30	17	9	29	16	8	26	15	8	1
0.80	38	22	13	35	21	12	31	19	11	2
1.00	44	27	17	41	26	16	35	25	14	3
1.25	50	33	22	47	31	21	40	27	18	5
1.50	55	39	27	51	36	25	44	31	22	7
2.00	63	47	35	58	44	33	49	37	28	10
2.50	69	54	42	64	50	39	53	42	33	14
3.00	74	59	48	68	55	45	57	46	38	16
4.00	80	67	57	73	62	53	61	52	45	21
5.00	84	73	63	77	67	59	64	57	50	24
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:
 Test Date:2022-04-14

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:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

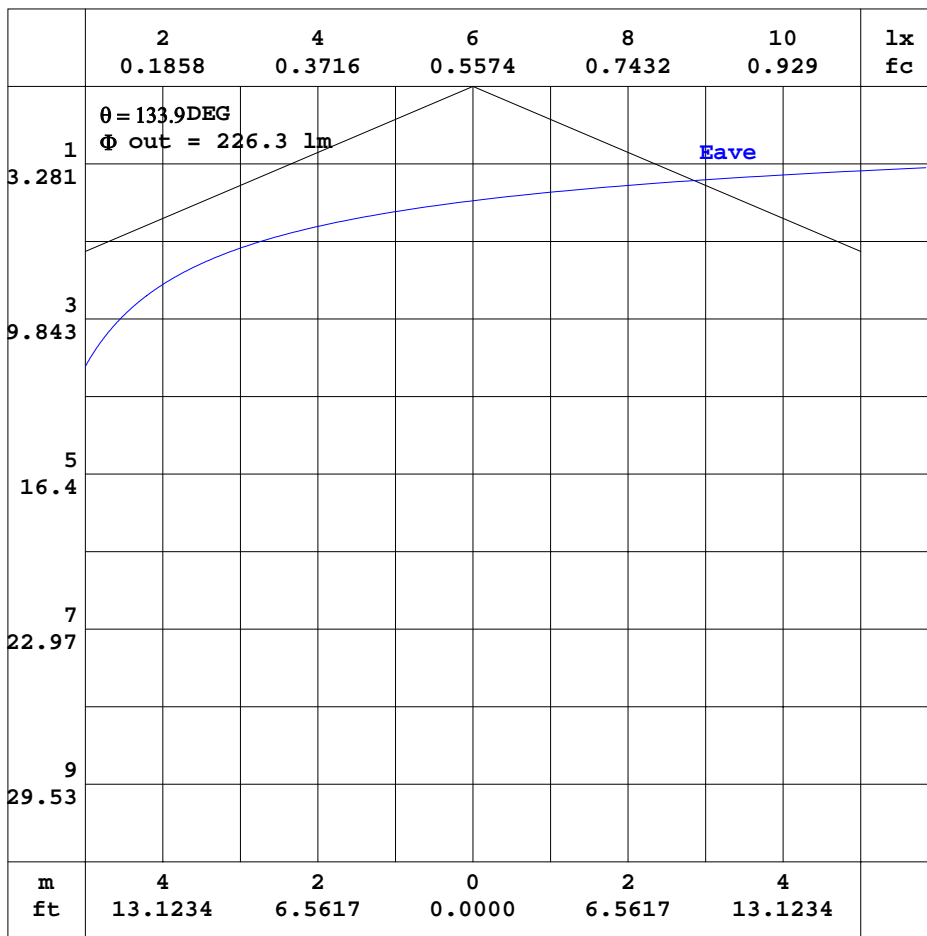


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



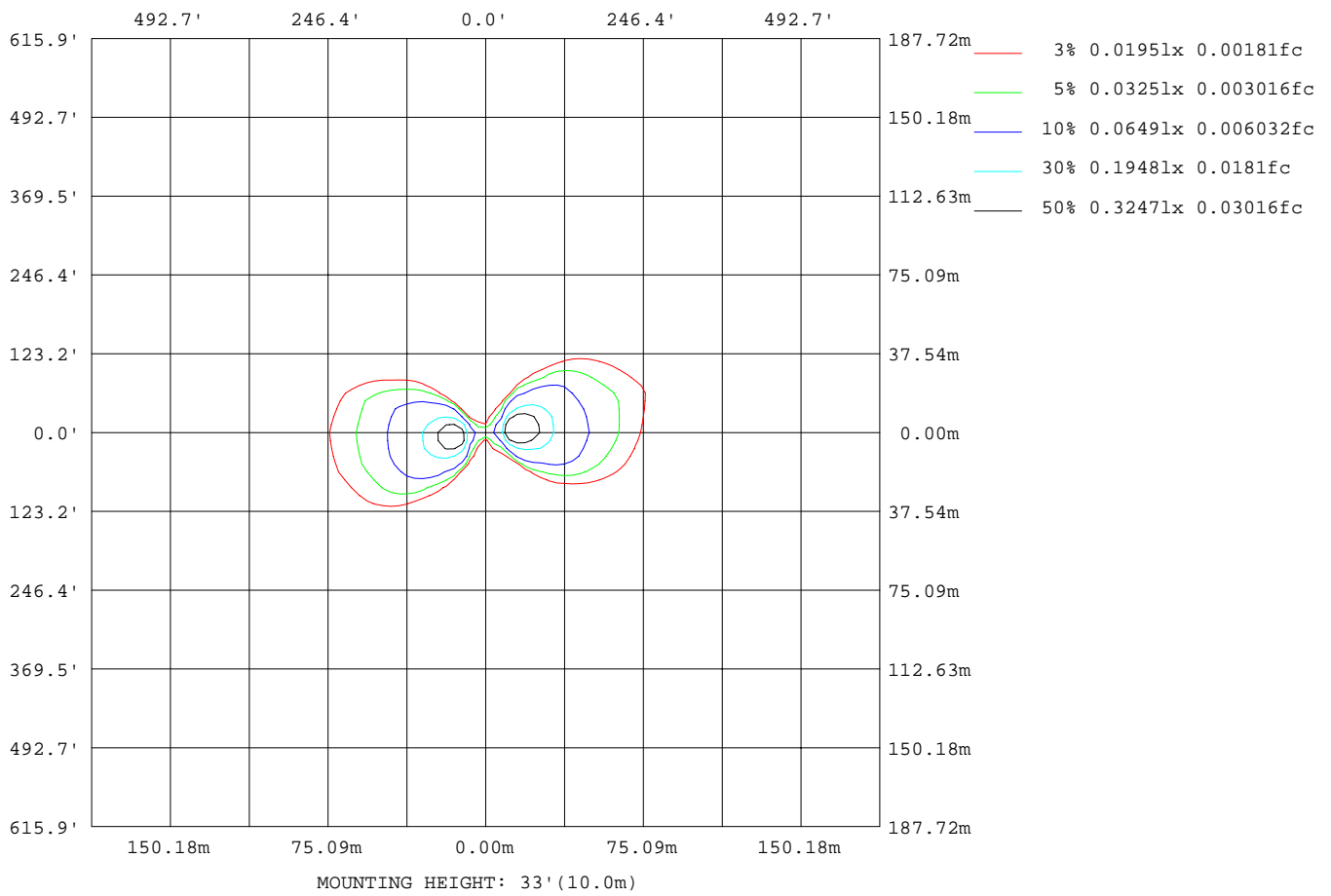
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81lx1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	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:
 Test Date:2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

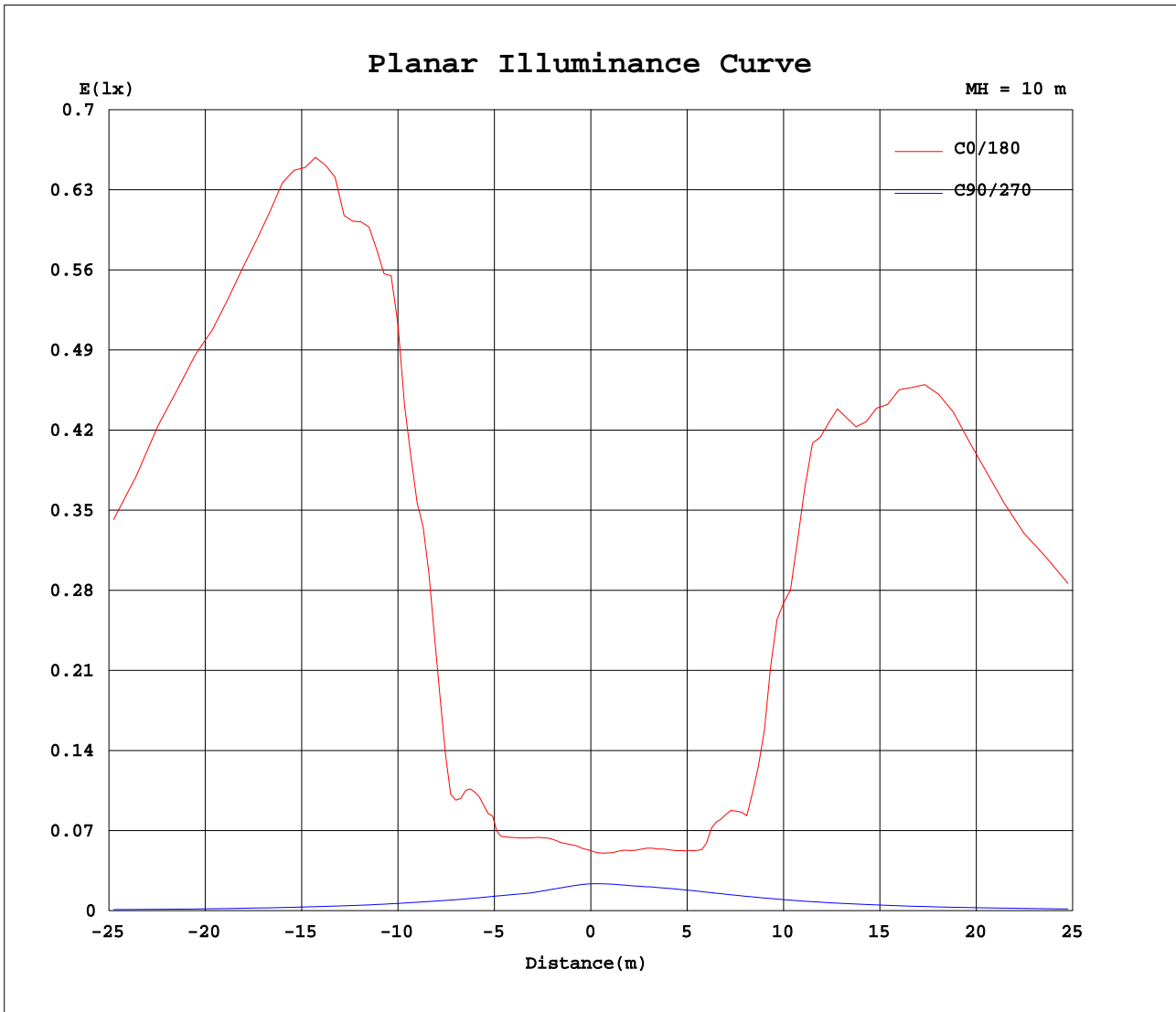
AvgL	cd/m2
L_0~180(65)av	12727
L_0~180(75)av	28500
L_0~180(85)av	95084
L_90~270(65)av	59
L_90~270(75)av	99
L_90~270(85)av	295
L_45(65)av	1639
L_45(75)av	3435
L_45(85)av	13359

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	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	5.27	4.70	3.87	3.13	2.58	2.31	2.36	2.56	2.93	3.47	4.30	5.06	5.27	4.70	3.87	3.13	2.58	2.31	2.36
5	5.80	5.21	4.30	3.49	2.83	2.31	2.23	2.43	2.89	3.58	4.46	5.15	5.12	4.60	3.80	3.01	2.41	2.20	2.37
10	6.41	5.69	4.81	3.98	3.08	2.30	2.04	2.31	3.06	3.95	4.97	5.72	5.54	5.01	4.06	3.08	2.23	2.03	2.35
15	7.13	6.49	5.45	4.35	3.40	2.36	1.87	2.29	3.08	4.25	5.57	6.39	5.99	5.40	4.24	3.11	2.23	1.89	2.36
20	7.69	7.01	6.03	4.90	3.71	2.42	1.79	2.27	3.29	4.76	6.11	6.97	6.51	5.88	4.73	3.19	2.19	1.80	2.43
25	8.76	7.82	6.59	5.48	3.98	2.50	1.78	2.33	3.63	4.92	6.49	7.53	7.07	6.30	4.94	3.54	2.20	1.78	2.51
30	15.3	11.5	7.47	5.91	4.30	2.58	1.77	2.45	3.75	5.29	7.43	9.05	8.25	7.15	5.27	3.67	2.32	1.80	2.58
35	17.6	16.8	12.8	6.44	4.72	2.67	1.77	2.61	3.79	6.79	13.9	16.5	15.3	13.3	6.05	3.69	2.50	1.84	2.64
40	65.5	18.8	14.6	7.11	5.14	2.75	1.81	2.75	4.01	11.5	16.5	26.1	23.0	17.0	11.8	3.92	2.57	1.89	2.71
45	145	64.8	17.9	7.87	5.48	2.86	1.84	2.86	4.32	13.9	52.1	78.6	76.1	51.9	13.4	4.31	2.62	1.91	2.77
50	227	141	26.5	9.54	5.76	2.97	1.86	2.89	4.93	18.8	114	164	156	117	17.5	4.98	2.73	1.94	2.84
55	349	210	73.8	12.4	5.97	3.07	1.90	2.84	7.60	50.5	162	243	226	171	52.4	8.37	2.78	1.95	2.92
60	469	281	104	15.3	6.20	3.15	1.95	2.83	10.2	85.4	231	376	368	248	94.5	11.6	2.82	1.96	3.01
65	604	361	136	17.7	6.39	3.21	1.95	2.83	12.6	119	309	488	472	329	129	13.7	2.84	1.98	3.07
70	712	500	164	18.0	6.59	3.25	1.96	2.83	12.4	138	411	591	586	410	154	13.1	2.87	1.98	3.12
75	758	648	210	18.7	6.74	3.29	1.96	2.83	12.9	162	511	739	717	524	224	13.4	2.90	1.97	3.15
80	903	605	224	19.1	6.82	3.32	1.96	2.82	13.3	202	575	743	737	710	245	20.9	2.95	1.96	3.16
85	780	612	238	19.7	6.88	3.35	1.96	2.82	15.0	210	565	921	878	624	253	23.0	2.98	1.95	3.17
90	790	633	244	19.3	6.86	3.34	1.96	2.79	15.4	223	561	800	749	624	262	24.5	2.97	1.95	3.18
95	773	547	245	19.0	6.82	3.34	1.96	2.76	13.9	228	595	723	784	634	272	27.1	2.95	1.95	3.17
100	794	514	213	18.9	6.69	3.32	1.96	2.73	14.6	198	533	728	770	554	257	21.3	2.93	1.96	3.14
105	683	485	188	18.4	6.54	3.30	1.97	2.70	14.0	184	461	761	811	503	209	14.6	2.85	1.95	3.12
110	558	392	155	17.5	6.34	3.26	1.93	2.65	13.0	167	442	651	696	471	181	13.8	2.78	1.94	3.08
115	456	305	107	16.5	6.17	3.19	1.91	2.51	12.4	131	339	515	571	382	151	13.4	2.73	1.91	3.05
120	332	220	60.7	13.9	5.95	3.13	1.84	2.19	10.9	83.6	251	423	466	298	117	11.7	2.69	1.83	2.99
125	220	135	37.9	11.7	5.70	3.06	1.69	1.56	8.66	49.1	181	313	335	209	61.6	8.77	2.62	1.59	2.86
130	128	93.7	17.6	9.50	5.35	2.96	1.60	1.40	5.17	18.6	115	207	228	132	39.7	7.83	2.43	1.48	2.73
135	65.1	27.8	15.0	7.00	5.09	2.83	1.60	1.63	2.86	13.0	75.0	125	128	90.1	15.3	4.73	2.03	1.46	2.60
140	18.5	16.3	10.2	6.32	4.77	2.71	1.60	1.64	2.42	6.13	19.5	63.6	73.8	28.0	12.7	3.64	1.54	1.52	2.49
145	15.3	11.5	7.13	5.77	4.37	2.61	1.59	1.51	2.26	4.36	11.8	17.8	19.2	15.4	7.69	2.97	1.51	1.53	2.43
150	8.75	7.45	6.28	5.36	3.99	2.53	1.59	1.51	2.26	3.88	6.06	12.3	14.1	8.45	5.00	2.76	1.55	1.53	2.38
155	7.12	6.54	5.76	4.89	3.67	2.43	1.58	1.51	2.16	3.80	5.45	7.04	7.43	6.05	4.25	2.71	1.47	1.58	2.32
160	6.73	6.07	5.19	4.28	3.42	2.33	1.59	1.59	2.20	3.46	4.99	6.10	6.59	5.60	4.10	2.47	1.52	1.57	2.28
165	5.86	5.32	4.50	3.85	3.09	2.25	1.66	1.75	2.36	3.32	4.35	5.39	5.95	5.05	3.62	2.37	1.70	1.67	2.26
170	5.35	4.83	4.10	3.42	2.83	2.15	1.82	1.99	2.55	3.38	4.27	4.87	5.26	4.54	3.50	2.53	1.91	1.81	2.25
175	4.97	4.43	3.70	3.08	2.55	2.13	2.01	2.28	2.82	3.49	4.29	4.84	5.06	4.41	3.50	2.71	2.17	1.99	2.24
180	4.99	4.36	3.54	2.86	2.37	2.11	2.20	2.50	2.97	3.59	4.37	4.93	4.98	4.35	3.54	2.86	2.36	2.10	2.20

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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:0.1470A P:17.29W PF:0.9807 Lamp Flux:1676.81x1 lm		
NAME: ASD-OLCLR-MV-2D18CC-EM-BZ/BK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2.56	2.93	3.47	4.30	5.06														
5	2.69	3.19	3.77	4.64	5.44														
10	2.93	3.53	4.22	5.10	5.84														
15	3.15	3.93	4.73	5.76	6.50														
20	3.49	4.33	5.36	6.24	7.01														
25	3.72	4.89	5.77	6.89	7.99														
30	3.95	5.32	6.45	11.1	14.2														
35	4.29	5.72	7.66	16.2	17.4														
40	4.65	6.22	12.1	17.3	54.5														
45	5.04	6.88	15.4	56.6	120														
50	5.36	7.68	17.6	116	206														
55	5.58	10.9	42.1	185	319														
60	5.71	13.9	87.1	254	455														
65	5.84	16.0	127	337	576														
70	6.02	16.5	150	459	698														
75	6.19	17.0	161	560	747														
80	6.31	17.8	205	576	864														
85	6.41	18.1	213	613	939														
90	6.47	18.3	216	601	760														
95	6.46	18.2	221	559	780														
100	6.42	18.1	197	509	800														
105	6.32	18.0	187	491	711														
110	6.18	17.0	158	413	564														
115	6.03	16.2	109	315	477														
120	5.88	14.5	64.5	213	349														
125	5.75	12.6	42.7	148	234														
130	5.48	10.9	18.4	96.7	135														
135	5.25	7.45	16.3	36.4	69.3														
140	4.95	6.75	11.7	17.6	19.6														
145	4.60	6.16	7.92	13.3	16.5														
150	4.13	5.74	6.93	8.42	12.2														
155	3.73	5.14	6.22	7.32	7.89														
160	3.39	4.61	5.57	6.74	7.33														
165	3.17	4.04	4.97	5.78	6.43														
170	2.98	3.63	4.40	5.21	5.70														
175	2.74	3.29	3.92	4.68	5.16														
180	2.51	2.97	3.60	4.37	4.93														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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: