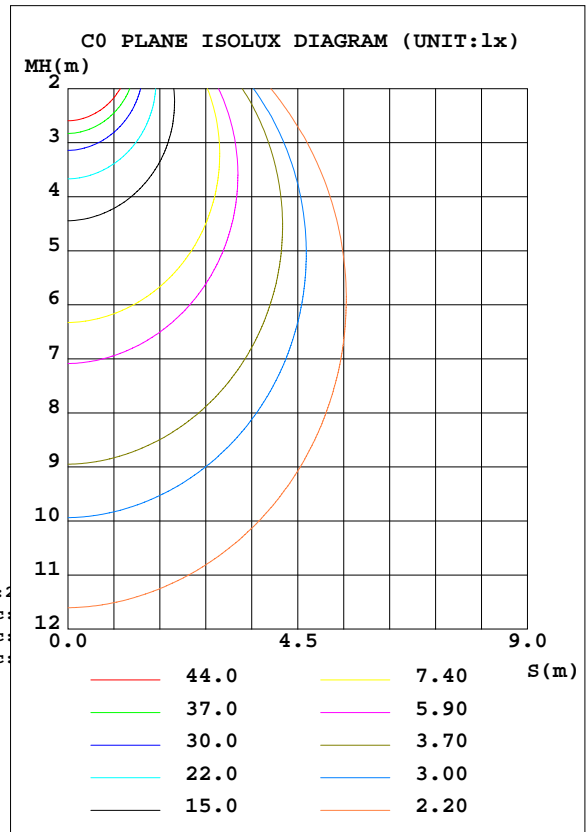
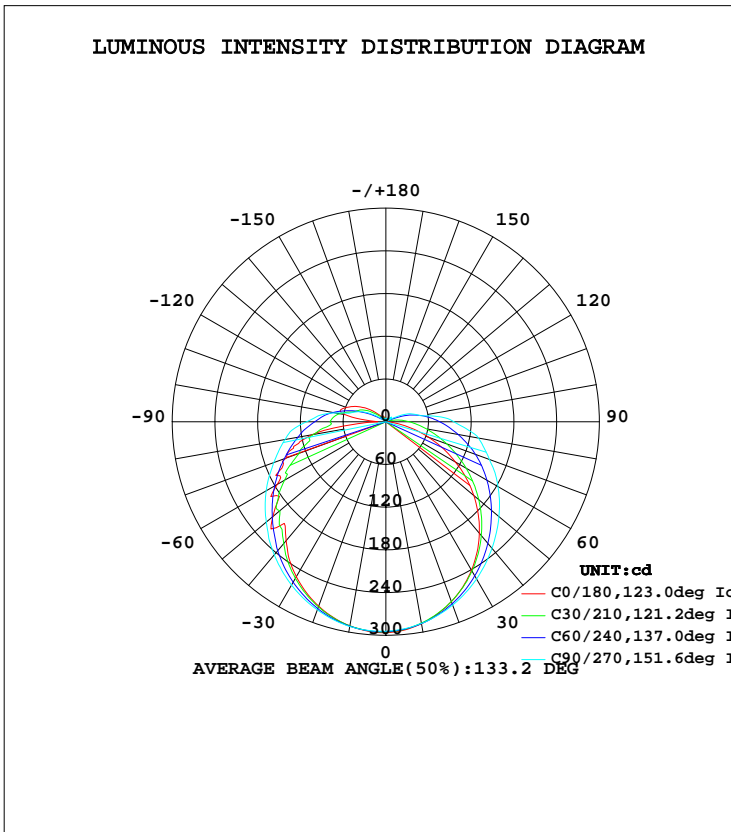


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.99 lm/W			
MODEL	ASD-OLWS-21-MV-N15CC-PC-XX	I _{max} (cd)	296.3	S/MH(C0/180)	1.26
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1211.5	η UP, DN(C0-180)	5.5,42.2
NOMINAL FLUX(lm)	1211.54	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	7.1,45.2
LAMPS INSIDE	1	η up(%)	12.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	87.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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	288.0	287.6	287.7	286.8	291.2	291.2	291.9	289.8	0- 10	27.85	27.85	2.3,2.3
20	269.0	270.5	274.1	271.1	275.7	277.7	281.2	275.5	10- 20	79.79	107.6	8.88,8.88
30	240.7	246.1	254.8	248.6	251.5	256.5	265.0	253.4	20- 30	121.7	229.3	18.9,18.9
40	204.4	215.1	231.9	220.0	218.1	229.8	243.9	225.7	30- 40	149.2	378.5	31.2,31.2
50	161.4	181.5	207.4	189.7	207.2	200.3	219.4	193.8	40- 50	161.4	539.9	44.6,44.6
60	112.8	147.1	181.8	159.4	176.4	171.8	194.3	160.7	50- 60	160.2	700.1	57.8,57.8
70	64.14	113.7	154.9	134.4	149.0	142.4	167.5	128.3	60- 70	146.1	846.2	69.8,69.8
80	20.00	82.72	132.2	106.0	105.6	112.9	144.0	96.68	70- 80	121.7	967.9	79.9,79.9
90	3.339	56.22	95.68	91.63	12.85	88.59	111.3	69.51	80- 90	90.97	1059	87.4,87.4
100	3.454	34.12	49.62	67.85	58.61	69.86	72.40	46.91	90-100	65.81	1125	92.8,92.8
110	3.655	6.631	32.57	31.98	58.95	41.36	41.74	24.43	100-110	42.17	1167	96.3,96.3
120	3.593	6.711	3.934	19.21	41.85	21.68	19.40	3.859	110-120	21.59	1188	98.1,98.1
130	3.901	4.005	10.15	9.242	22.80	10.37	4.159	6.826	120-130	10.09	1198	98.9,98.9
140	4.098	4.082	4.393	8.924	9.529	6.746	6.795	4.260	130-140	5.730	1204	99.4,99.4
150	4.155	4.098	4.071	6.671	8.571	6.783	4.248	4.017	140-150	3.419	1208	99.7,99.7
160	4.017	4.059	4.132	4.167	6.723	4.229	4.271	4.082	150-160	2.287	1210	99.9,99.9
170	4.244	4.294	4.229	4.310	4.320	4.317	4.302	4.202	160-170	1.201	1211	100,100
180	4.394	4.352	4.433	4.375	4.402	4.352	4.444	4.375	170-180	0.4105	1212	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

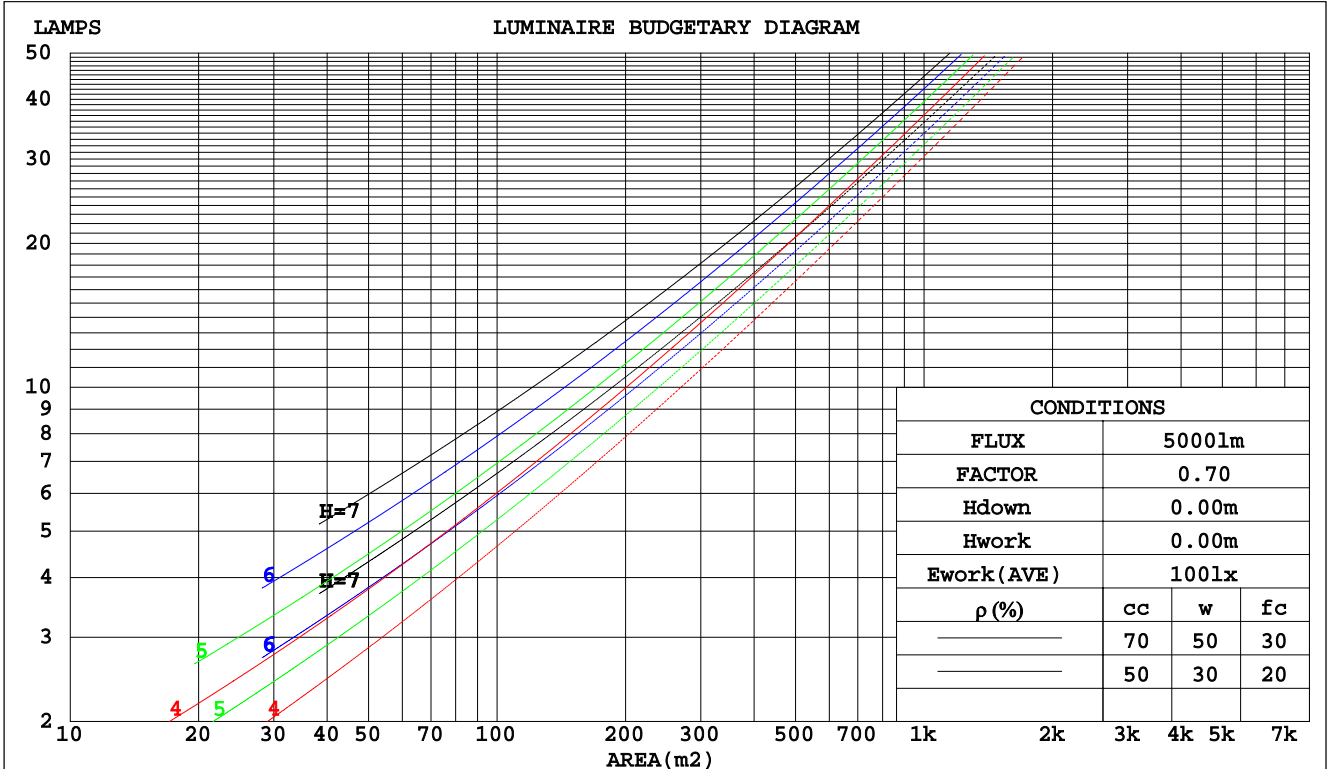
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.87
1.0	.97	.91	.87	.93	.88	.84	.87	.83	.79	.80	.77	.74	.75	.72	.70	.67
2.0	.83	.75	.68	.80	.72	.66	.74	.68	.63	.69	.64	.60	.64	.60	.56	.53
3.0	.72	.63	.55	.69	.61	.54	.64	.57	.52	.60	.54	.49	.56	.51	.47	.44
4.0	.63	.54	.46	.61	.52	.45	.57	.49	.43	.53	.46	.41	.49	.44	.39	.37
5.0	.56	.46	.39	.54	.45	.39	.50	.43	.37	.47	.41	.35	.44	.38	.34	.31
6.0	.50	.41	.34	.49	.40	.33	.45	.38	.32	.42	.36	.31	.40	.34	.29	.27
7.0	.45	.36	.30	.44	.35	.29	.41	.34	.28	.39	.32	.27	.36	.30	.26	.24
8.0	.41	.32	.26	.40	.32	.26	.38	.30	.25	.35	.29	.24	.33	.27	.23	.21
9.0	.38	.29	.24	.37	.29	.23	.35	.27	.22	.33	.26	.22	.31	.25	.21	.19
10.0	.35	.27	.21	.34	.26	.21	.32	.25	.20	.30	.24	.20	.28	.23	.19	.17



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

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	.388	.221	.070	.377	.215	.068	.356	.204	.065	.337	.194	.062	.319	.185	.060	
2.0	.336	.184	.057	.326	.180	.055	.308	.171	.053	.290	.163	.051	.274	.155	.049	
3.0	.299	.159	.048	.290	.155	.047	.273	.148	.045	.257	.141	.043	.243	.135	.042	
4.0	.269	.140	.041	.261	.137	.040	.246	.130	.039	.232	.124	.038	.218	.119	.036	
5.0	.244	.125	.036	.237	.122	.035	.223	.116	.034	.211	.111	.033	.199	.106	.032	
6.0	.224	.112	.032	.217	.110	.032	.205	.105	.031	.193	.100	.030	.182	.096	.028	
7.0	.206	.102	.029	.200	.100	.028	.189	.096	.028	.178	.091	.027	.168	.088	.026	
8.0	.191	.094	.026	.186	.092	.026	.176	.088	.025	.166	.084	.024	.157	.080	.023	
9.0	.178	.086	.024	.173	.084	.024	.164	.081	.023	.155	.078	.022	.146	.074	.021	
10.0	.167	.080	.022	.162	.078	.022	.154	.075	.021	.145	.072	.021	.137	.069	.020	

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	.287	.287	.287	.245	.245	.245	.167	.167	.167	.096	.096	.096	.031	.031	.031	
1.0	.283	.252	.225	.242	.217	.194	.165	.149	.134	.095	.086	.078	.030	.028	.025	
2.0	.276	.229	.190	.236	.197	.164	.162	.136	.115	.093	.079	.067	.030	.026	.022	
3.0	.268	.212	.168	.230	.183	.146	.158	.127	.102	.091	.074	.060	.029	.024	.020	
4.0	.260	.200	.154	.223	.173	.134	.154	.120	.094	.089	.070	.056	.029	.023	.018	
5.0	.252	.190	.144	.217	.164	.125	.149	.115	.088	.086	.067	.052	.028	.022	.017	
6.0	.245	.182	.137	.210	.158	.119	.145	.110	.084	.084	.065	.050	.027	.021	.017	
7.0	.238	.175	.131	.204	.152	.115	.141	.106	.081	.082	.063	.048	.027	.021	.016	
8.0	.231	.170	.127	.199	.147	.111	.137	.103	.079	.080	.061	.047	.026	.020	.016	
9.0	.224	.165	.124	.193	.143	.108	.134	.100	.077	.078	.059	.046	.025	.019	.015	
10.0	.219	.161	.122	.188	.139	.106	.131	.098	.076	.076	.058	.045	.025	.019	.015	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm										
NAME: ASD-OLWS-21-MV-N15CC-PC-XX					TYPE:N/A			WEIGHT:N/A		
SPEC.:					DIM.: N/A			SERIAL No.:N/A		
MFR.: ASD Lighting corp					SUR.:N/A			PROTECTION ANGLE:N/A		
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	14.4	15.8	14.8	16.3	16.7	16.4	17.8	16.8	18.2	18.7
3H	15.7	17.0	16.1	17.5	18.0	18.9	20.3	19.4	20.7	21.2
4H	16.1	17.4	16.6	17.9	18.4	20.3	21.6	20.8	22.1	22.6
6H	16.4	17.6	16.9	18.1	18.6	21.9	23.1	22.4	23.6	24.2
8H	16.4	17.6	16.9	18.1	18.7	22.8	24.0	23.3	24.5	25.0
12H	16.4	17.5	16.9	18.1	18.6	23.7	24.9	24.3	25.4	26.0
4H 2H	15.4	16.7	15.9	17.1	17.7	16.9	18.1	17.4	18.6	19.1
3H	16.9	18.1	17.5	18.6	19.2	19.7	20.8	20.2	21.3	21.9
4H	17.6	18.6	18.1	19.1	19.7	21.3	22.3	21.8	22.8	23.4
6H	18.0	18.9	18.6	19.5	20.1	23.1	24.0	23.7	24.6	25.2
8H	18.1	19.0	18.7	19.5	20.2	24.1	24.9	24.7	25.5	26.2
12H	18.1	18.9	18.7	19.5	20.2	25.2	26.0	25.8	26.6	27.3
8H 4H	18.5	19.4	19.1	20.0	20.7	21.5	22.4	22.1	23.0	23.7
6H	19.3	20.1	19.9	20.7	21.4	23.6	24.4	24.2	25.0	25.7
8H	19.6	20.3	20.2	20.9	21.6	24.8	25.5	25.5	26.1	26.8
12H	19.8	20.4	20.4	21.0	21.8	26.2	26.8	26.9	27.4	28.2
12H 4H	18.9	19.7	19.5	20.3	20.9	21.5	22.3	22.2	22.9	23.6
6H	19.9	20.5	20.5	21.2	21.9	23.7	24.4	24.4	25.0	25.7
8H	20.3	20.9	21.0	21.6	22.3	25.0	25.6	25.7	26.2	27.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1212 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

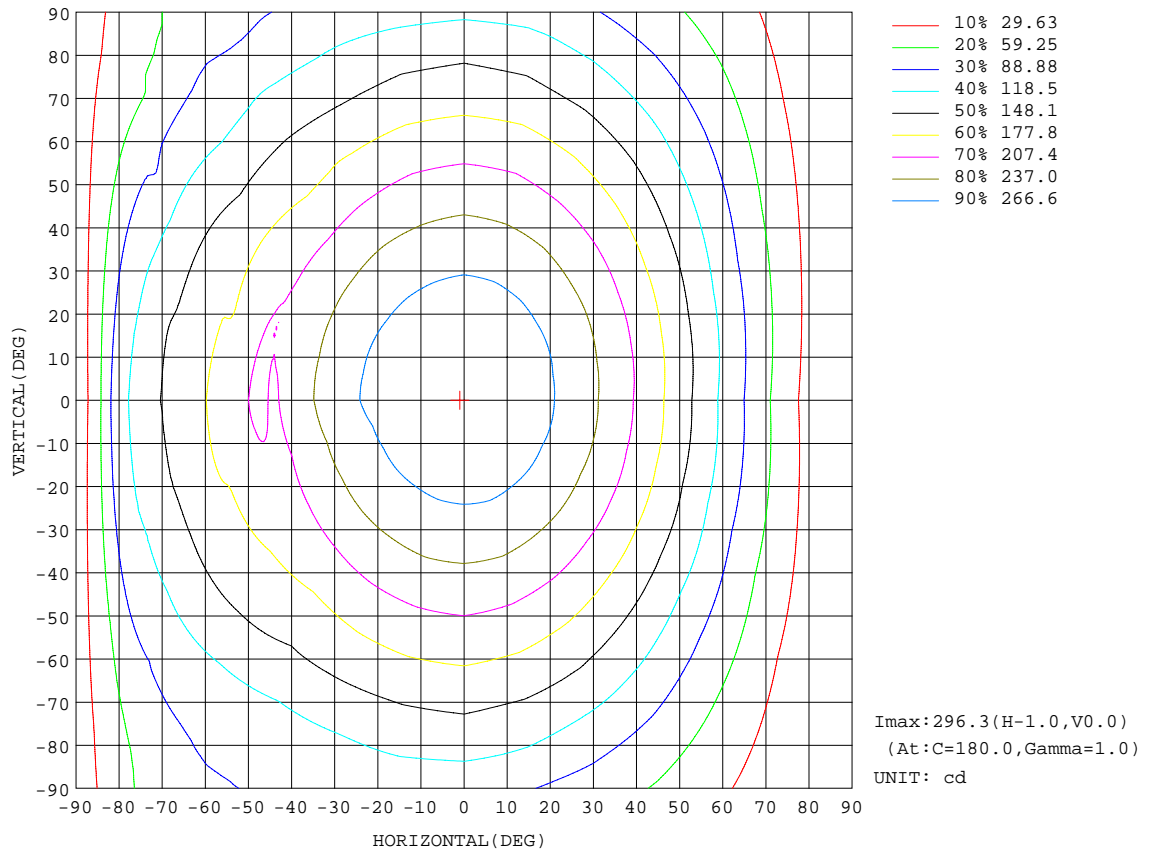
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	37	30	48	37	30	47	36	29	23
0.80	59	46	38	57	45	37	55	44	37	29
1.00	66	54	45	65	53	45	62	54	44	36
1.25	73	61	52	71	60	52	68	58	50	41
1.50	78	66	58	76	65	57	72	62	55	46
2.00	86	75	66	83	73	65	78	70	63	52
2.50	90	80	72	87	78	71	82	74	68	56
3.00	94	85	77	91	82	76	85	78	72	60
4.00	98	91	84	95	88	82	89	83	78	65
5.00	101	95	89	98	92	86	91	86	82	69
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:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

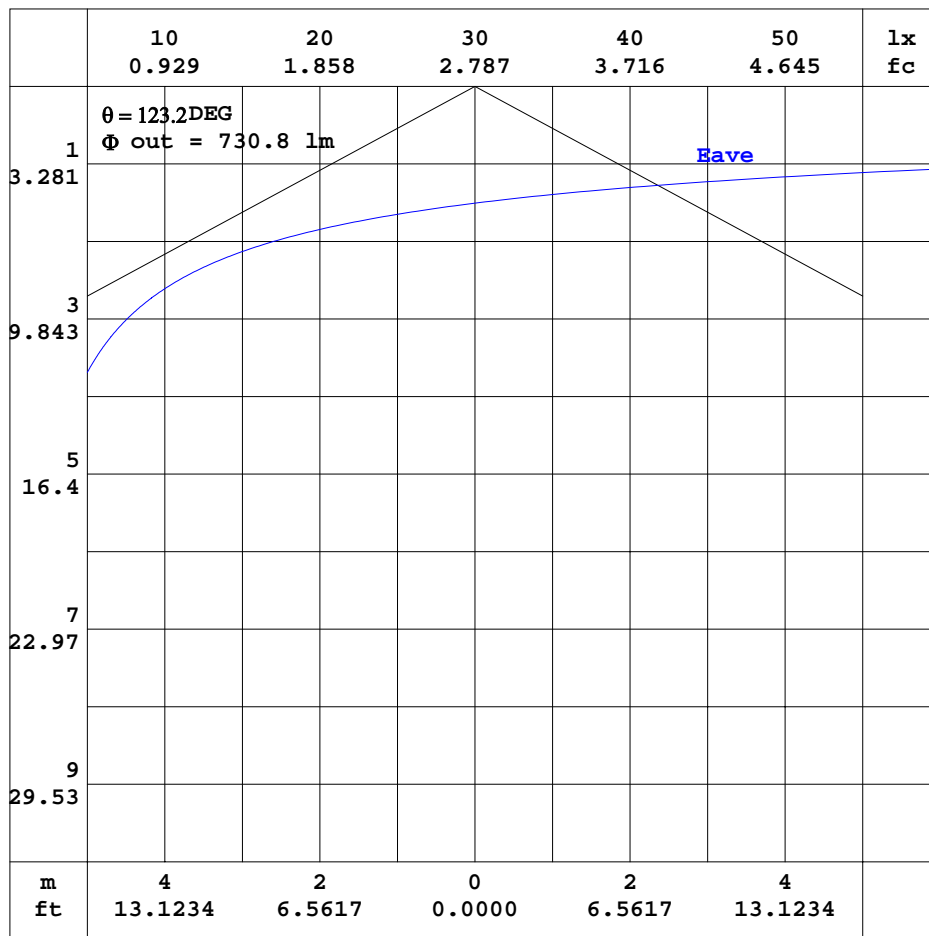


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A



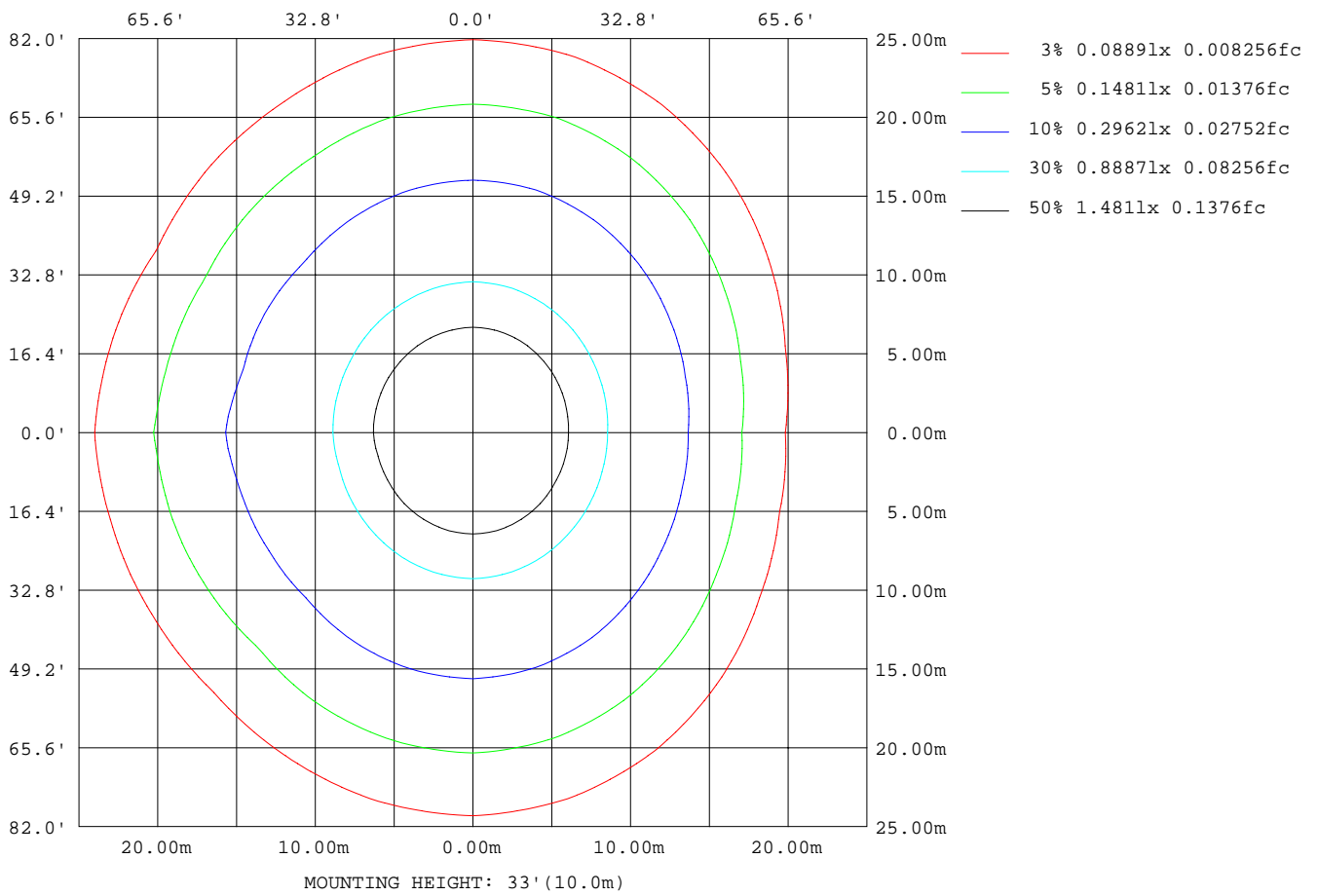
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

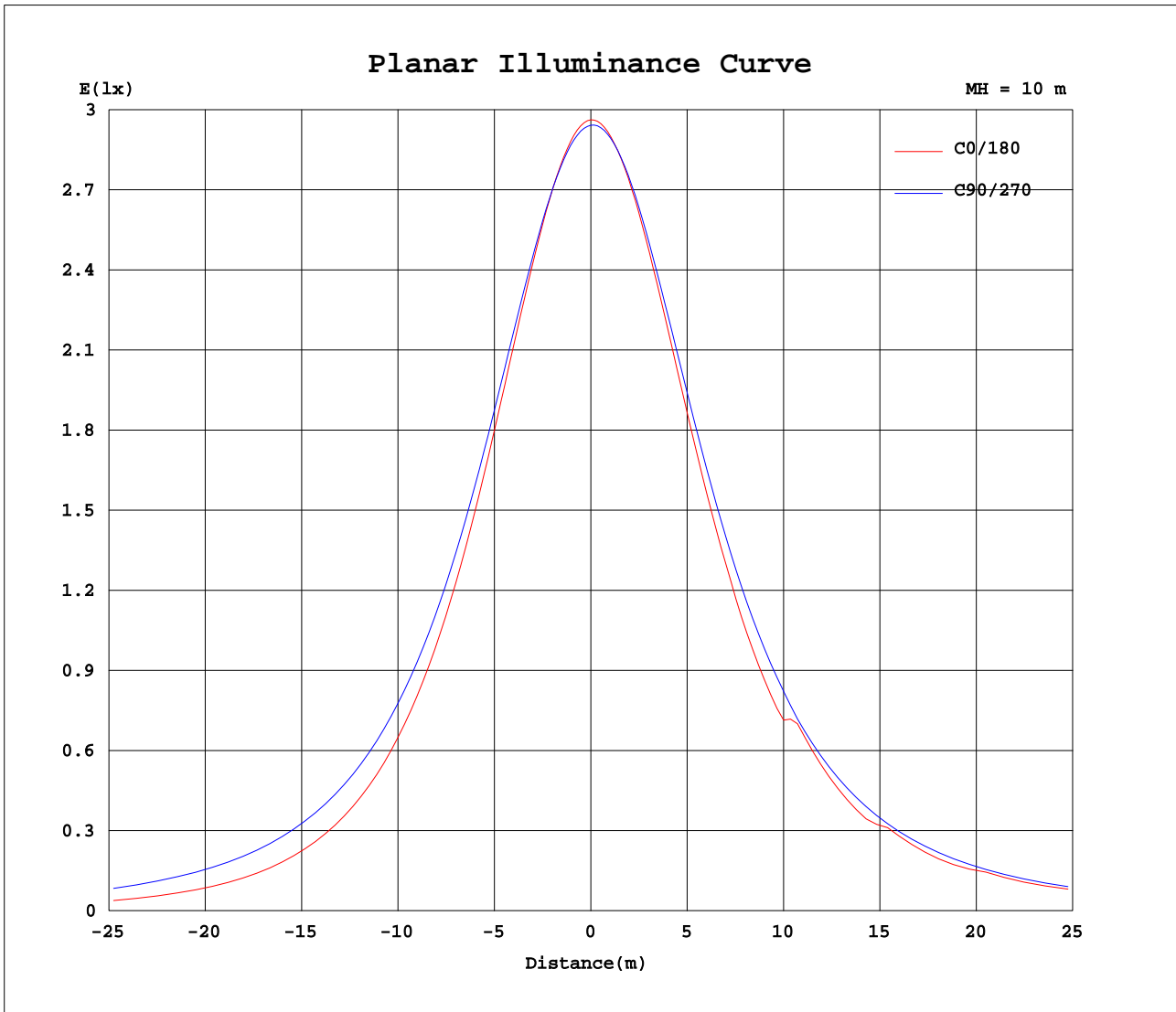
AvgL	cd/m2
L_0~180(65)av	3014
L_0~180(75)av	3376
L_0~180(85)av	3160
L_90~270(65)av	4141
L_90~270(75)av	5767
L_90~270(85)av	14083
L_45(65)av	3445
L_45(75)av	4413
L_45(85)av	10122

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-11-07

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: 2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

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	296	296	295	295	295	295	294	294	294	294	294	294	296	296	295	295	295	295	294
5	294	293	293	293	293	292	292	292	291	291	291	292	295	295	295	294	295	294	294
10	288	288	287	288	288	288	288	287	287	287	287	287	291	291	291	291	292	292	292
15	280	279	279	280	281	282	282	281	280	280	279	280	285	285	285	286	287	287	288
20	269	269	269	270	272	274	274	273	272	271	270	271	276	276	277	278	279	280	281
25	256	256	256	259	262	265	265	264	262	261	259	260	265	265	266	268	270	272	274
30	241	241	242	246	250	254	255	254	251	249	246	246	251	252	254	256	260	263	265
35	223	223	226	231	237	242	244	242	239	235	232	231	236	237	240	244	249	252	255
40	204	204	209	215	223	229	232	230	226	220	216	213	218	220	223	230	236	241	244
45	184	184	190	199	208	216	220	217	212	205	200	203	202	209	209	215	222	229	233
50	161	163	170	181	194	203	207	204	198	190	186	201	207	200	194	200	208	216	219
55	138	140	150	164	179	190	195	192	184	175	176	186	183	182	184	184	194	203	207
60	113	117	130	147	164	176	182	179	171	159	164	172	176	166	164	172	180	190	194
65	88.6	94.2	110	130	149	163	169	165	157	149	152	157	166	159	150	159	166	177	181
70	64.1	72.2	91.2	114	134	148	155	151	143	134	134	136	149	144	129	142	152	163	167
75	40.6	51.6	73.5	97.8	118	135	143	139	130	119	117	119	134	111	114	128	139	151	156
80	20.0	33.7	57.8	82.7	103	121	132	127	116	106	107	94.5	106	86.3	104	113	125	139	144
85	5.82	20.0	44.2	68.8	88.9	105	113	111	102	103	93.7	74.7	49.3	58.6	83.3	99.2	113	124	132
90	3.34	11.1	32.8	56.2	75.9	90.5	95.7	94.6	90.2	91.6	85.9	64.2	12.9	49.6	78.5	88.6	100.0	107	111
95	3.35	6.40	23.7	45.0	63.5	76.3	77.9	77.5	77.9	80.6	79.0	58.3	29.1	52.3	74.2	80.2	88.9	93.5	95.6
100	3.45	4.18	14.3	34.1	50.5	57.5	49.6	52.3	62.3	67.9	65.2	53.7	58.6	54.5	65.7	69.9	75.4	72.0	72.4
105	3.57	3.40	7.07	20.9	37.2	41.5	41.4	41.2	46.0	52.7	47.2	54.6	65.7	57.4	53.2	57.3	59.8	50.9	49.9
110	3.65	3.54	5.15	6.63	20.6	29.2	32.6	31.2	30.3	32.0	40.6	51.5	59.0	54.5	44.4	41.4	43.9	39.0	41.7
115	3.55	3.44	4.50	4.46	4.91	14.5	18.4	16.7	13.4	21.4	36.5	46.0	50.9	48.2	39.6	28.2	27.5	27.0	31.7
120	3.59	3.50	3.48	6.71	4.97	3.74	3.93	4.53	6.20	19.2	28.5	37.8	41.8	39.6	32.2	21.7	11.5	14.7	19.4
125	3.80	3.60	3.50	5.26	9.41	7.47	6.01	7.81	11.3	13.4	19.9	28.9	32.8	28.9	23.1	16.0	6.86	4.47	6.35
130	3.90	3.88	3.93	4.01	6.74	9.26	10.1	10.3	11.1	9.24	12.9	19.2	22.8	19.7	15.3	10.4	8.48	4.94	4.16
135	4.10	4.05	4.00	4.04	4.44	6.22	7.07	7.48	9.16	8.18	9.39	12.1	14.4	12.5	9.90	7.07	9.70	8.33	6.45
140	4.10	4.06	4.04	4.08	4.12	3.98	4.39	4.79	6.09	8.92	8.54	8.62	9.53	8.53	7.18	6.75	7.52	7.21	6.80
145	4.08	4.04	4.07	4.14	3.91	4.01	4.07	4.21	4.05	8.89	9.13	8.23	7.73	7.10	6.71	7.07	5.86	4.52	4.75
150	4.16	4.14	4.10	4.10	3.99	4.02	4.07	4.10	4.16	6.67	9.16	9.05	8.57	7.77	7.25	6.78	4.30	4.37	4.25
155	4.19	4.18	4.07	3.94	4.01	4.13	4.19	4.21	4.63	4.07	6.91	8.72	8.99	8.05	7.22	5.01	4.24	4.31	4.29
160	4.02	4.01	4.01	4.06	4.19	4.12	4.13	4.14	4.13	4.17	4.12	5.03	6.72	5.78	4.64	4.23	4.45	4.28	4.27
165	4.11	4.11	4.16	4.25	4.17	4.16	4.17	4.19	4.24	4.24	4.27	4.12	4.21	4.21	4.28	4.52	4.28	4.28	4.27
170	4.24	4.25	4.27	4.29	4.31	4.24	4.23	4.25	4.31	4.31	4.25	4.16	4.32	4.22	4.29	4.32	4.30	4.29	4.30
175	4.35	4.34	4.30	4.32	4.35	4.38	4.39	4.40	4.34	4.33	4.29	4.32	4.34	4.30	4.29	4.31	4.31	4.32	4.32
180	4.39	4.36	4.33	4.35	4.38	4.45	4.43	4.43	4.41	4.38	4.33	4.32	4.40	4.35	4.34	4.35	4.38	4.44	4.44

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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:0.1269A P:15.15W PF:0.9953 Lamp Flux:1211.54x1 lm		
NAME: ASD-OLWS-21-MV-N15CC-PC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	PROTECTION ANGLE:N/A

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	294	294	294	294	294														
5	294	294	293	293	292														
10	292	291	290	289	287														
15	287	286	284	282	280														
20	280	279	275	273	270														
25	273	270	265	262	258														
30	263	259	253	248	243														
35	253	248	240	234	227														
40	241	235	226	216	209														
45	229	220	210	198	189														
50	217	206	194	180	169														
55	204	192	177	161	147														
60	190	178	161	141	124														
65	177	163	144	122	101														
70	163	148	128	104	80.0														
75	150	134	112	86.7	60.0														
80	137	120	96.7	70.8	42.5														
85	124	105	82.5	56.5	28.4														
90	106	91.2	69.5	44.5	18.3														
95	91.5	78.3	57.9	34.4	11.7														
100	73.1	65.4	46.9	25.2	6.77														
105	52.6	51.5	36.3	15.5	4.22														
110	40.3	37.9	24.4	5.74	3.91														
115	29.3	23.5	11.5	3.65	3.63														
120	17.1	11.0	3.86	5.00	3.67														
125	4.82	3.92	4.28	4.49	3.96														
130	4.12	4.36	6.83	4.12	4.12														
135	6.86	7.77	4.86	4.18	4.15														
140	6.56	5.09	4.26	4.20	4.16														
145	4.34	4.12	4.27	4.22	4.17														
150	4.22	4.15	4.02	4.21	4.20														
155	4.24	4.15	4.05	3.96	4.16														
160	4.24	4.16	4.08	4.02	3.99														
165	4.24	4.20	4.14	4.12	4.08														
170	4.27	4.24	4.20	4.16	4.13														
175	4.29	4.26	4.22	4.19	4.26														
180	4.43	4.41	4.38	4.34	4.32														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-07

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: