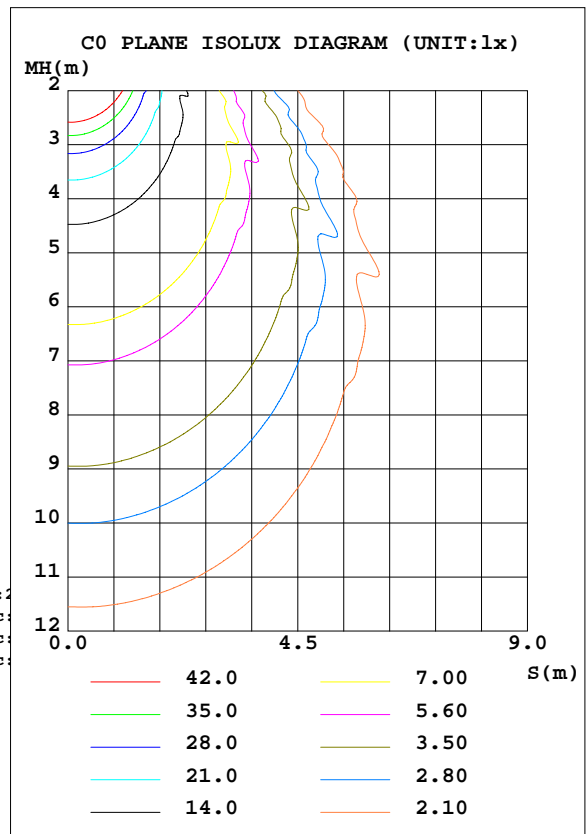
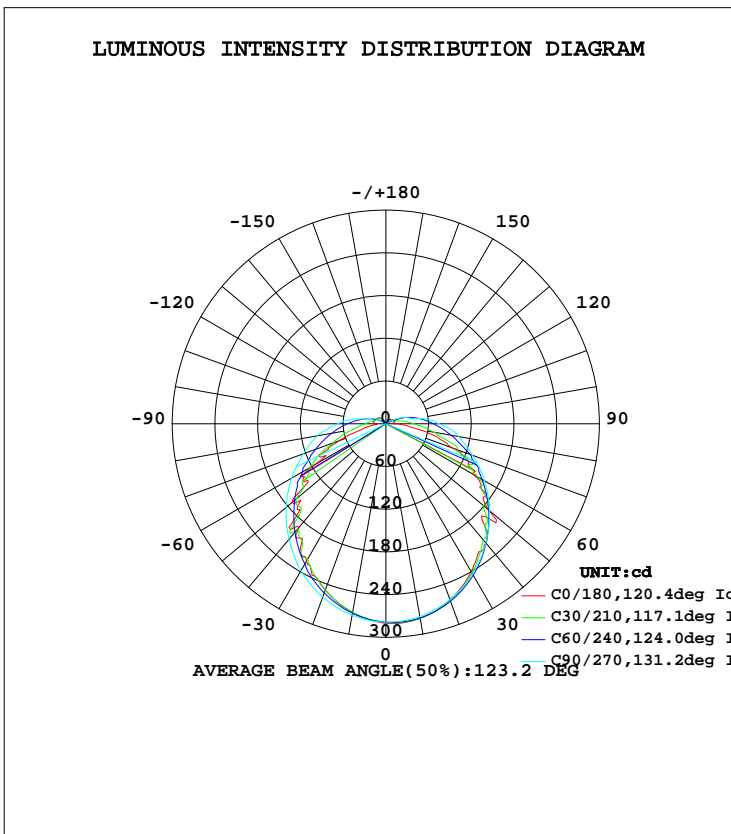


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.14 lm/W			
MODEL	ASD-OLWS-21-N15CC-PC-BZ-BN	Beam (cd)	281.0	S/MH(C0/180)	1.19
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1022.5	η UP, DN(C0-180)	5.0,46.0
NOMINAL FLUX(lm)	1022.53	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.8,44.3
LAMPS INSIDE	1	η up(%)	9.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	90.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

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	277.6	277.5	274.9	269.9	269.3	268.8	273.0	275.4	0- 10	26.34	26.34	2.58,2.58
20	263.4	265.2	263.1	252.2	248.5	250.0	259.2	261.9	10- 20	75.20	101.5	9.93,9.93
30	239.6	244.5	243.7	225.8	223.2	223.6	238.3	240.2	20- 30	113.9	215.5	21.1,21.1
40	218.2	215.5	218.6	196.3	189.6	193.2	211.5	211.6	30- 40	138.8	354.2	34.6,34.6
50	189.2	184.0	190.0	163.1	171.9	158.9	182.8	181.1	40- 50	148.8	503.1	49.2,49.2
60	140.5	148.0	159.9	134.7	114.5	125.0	153.0	146.7	50- 60	143.0	646.0	63.2,63.2
70	98.88	121.7	129.6	98.00	70.88	92.25	123.2	112.6	60- 70	122.1	768.1	75.1,75.1
80	47.25	83.22	104.0	66.80	27.69	63.04	97.80	78.20	70- 80	92.31	860.4	84.1,84.1
90	13.86	55.09	75.11	45.76	15.02	41.87	67.75	51.02	80- 90	62.56	922.9	90.3,90.3
100	12.07	36.00	42.96	30.66	18.07	27.66	39.72	32.46	90-100	41.26	964.2	94.3,94.3
110	13.26	15.74	25.57	15.57	15.93	16.42	22.45	16.32	100-110	24.72	988.9	96.7,96.7
120	11.06	8.849	6.839	10.17	15.01	10.83	10.81	6.830	110-120	13.51	1002	98,98
130	9.037	6.206	7.161	8.362	13.19	8.584	3.752	6.061	120-130	7.664	1010	98.8,98.8
140	7.504	5.462	4.976	5.046	9.852	6.004	4.222	5.876	130-140	5.577	1016	99.3,99.3
150	6.811	5.012	3.555	4.156	6.429	4.047	3.786	4.940	140-150	3.311	1019	99.7,99.7
160	3.699	3.672	3.655	3.647	4.108	4.191	3.832	3.924	150-160	2.051	1021	99.9,99.9
170	3.697	3.717	3.759	3.767	3.778	3.813	3.840	3.759	160-170	1.115	1022	100,100
180	3.813	3.817	3.851	3.859	3.820	3.820	3.851	3.855	170-180	0.3686	1023	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

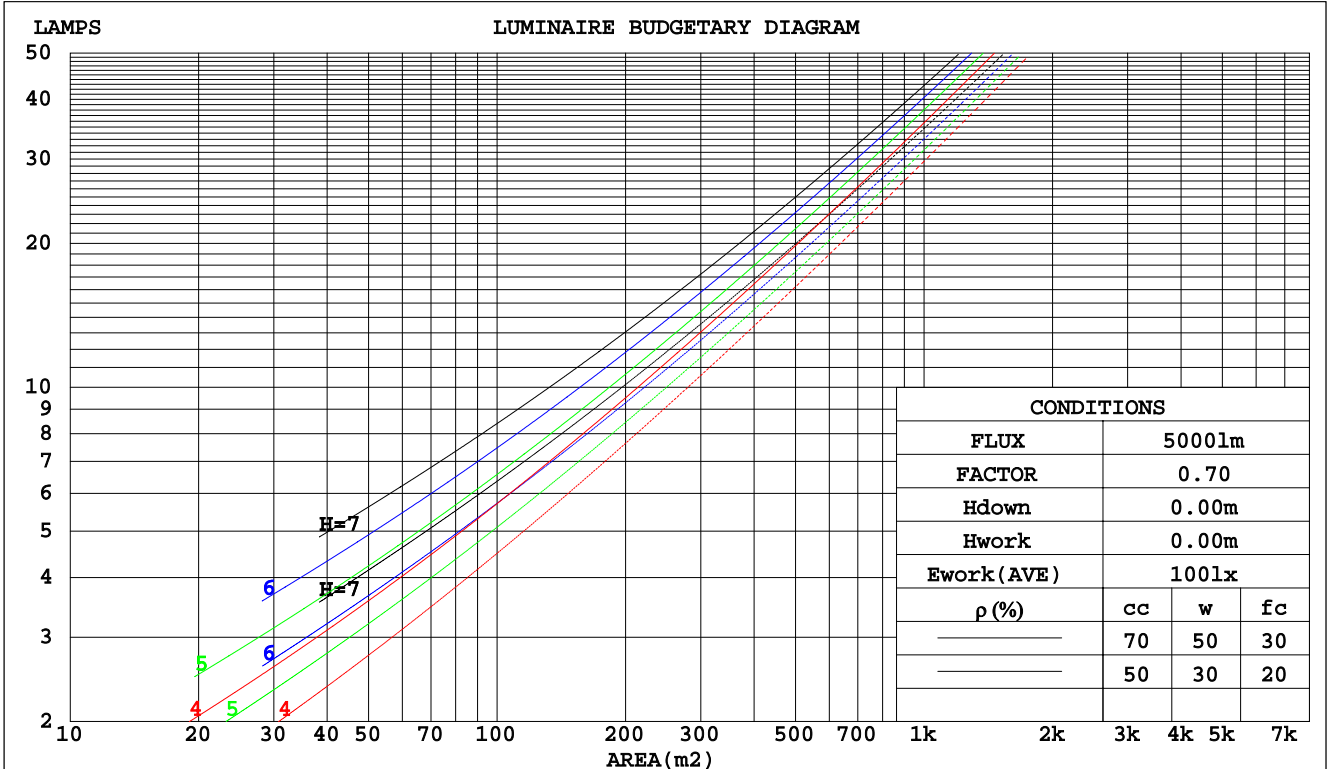
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90
1.0	.99	.93	.89	.95	.91	.86	.89	.85	.82	.84	.80	.78	.78	.76	.74	.71
2.0	.85	.77	.71	.82	.75	.69	.77	.71	.66	.72	.67	.63	.68	.64	.60	.57
3.0	.74	.65	.58	.71	.63	.57	.67	.60	.54	.63	.57	.52	.59	.54	.50	.47
4.0	.65	.56	.48	.63	.54	.48	.59	.52	.46	.56	.49	.44	.52	.47	.43	.40
5.0	.58	.48	.41	.56	.47	.41	.53	.45	.39	.50	.43	.38	.47	.41	.37	.34
6.0	.52	.43	.36	.50	.42	.35	.48	.40	.34	.45	.38	.33	.42	.37	.32	.30
7.0	.47	.38	.31	.46	.37	.31	.43	.36	.30	.41	.34	.29	.39	.33	.28	.26
8.0	.43	.34	.28	.42	.33	.28	.39	.32	.27	.37	.31	.26	.35	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.27	.22	.33	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	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	.367	.209	.066	.357	.203	.065	.338	.194	.062	.320	.185	.059	.304	.176	.057	
2.0	.324	.177	.054	.315	.173	.053	.298	.166	.051	.282	.158	.049	.267	.151	.048	
3.0	.291	.155	.046	.282	.151	.046	.267	.145	.044	.253	.139	.042	.240	.133	.041	
4.0	.263	.137	.040	.256	.134	.040	.242	.128	.038	.229	.123	.037	.217	.118	.036	
5.0	.240	.122	.035	.234	.120	.035	.221	.115	.034	.210	.111	.033	.199	.106	.032	
6.0	.221	.111	.032	.215	.109	.031	.204	.104	.030	.193	.100	.029	.183	.096	.029	
7.0	.204	.101	.029	.199	.099	.028	.188	.095	.027	.179	.092	.027	.170	.088	.026	
8.0	.190	.093	.026	.185	.091	.026	.175	.088	.025	.167	.084	.024	.158	.081	.024	
9.0	.177	.086	.024	.172	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.166	.079	.022	.162	.078	.022	.154	.075	.021	.146	.073	.021	.140	.070	.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	.265	.265	.265	.226	.226	.226	.154	.154	.154	.089	.089	.089	.028	.028	.028	
1.0	.259	.230	.205	.222	.198	.176	.152	.136	.122	.087	.079	.071	.028	.025	.023	
2.0	.252	.207	.169	.216	.178	.146	.148	.123	.102	.085	.072	.060	.027	.023	.020	
3.0	.244	.190	.147	.209	.164	.128	.144	.114	.089	.083	.067	.053	.027	.022	.017	
4.0	.236	.177	.132	.203	.153	.115	.139	.107	.081	.081	.063	.048	.026	.020	.016	
5.0	.229	.167	.122	.196	.145	.106	.135	.101	.075	.078	.059	.044	.025	.019	.015	
6.0	.221	.159	.115	.190	.138	.100	.131	.096	.071	.076	.057	.042	.025	.019	.014	
7.0	.214	.152	.109	.184	.132	.095	.127	.093	.067	.074	.055	.040	.024	.018	.013	
8.0	.207	.147	.105	.179	.127	.092	.124	.089	.065	.072	.053	.039	.023	.017	.013	
9.0	.201	.142	.102	.173	.123	.089	.120	.087	.063	.070	.051	.038	.023	.017	.012	
10.0	.195	.138	.099	.168	.120	.087	.117	.084	.062	.068	.050	.037	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm										
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K					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	16.2	17.6	16.6	18.0	18.4	16.5	18.0	16.9	18.3	18.7
3H	18.0	19.3	18.4	19.7	20.2	18.8	20.2	19.3	20.6	21.0
4H	18.7	20.0	19.2	20.4	20.9	20.1	21.4	20.5	21.8	22.3
6H	19.4	20.6	19.9	21.0	21.5	21.5	22.7	22.0	23.1	23.6
8H	19.6	20.8	20.1	21.2	21.7	22.3	23.4	22.7	23.9	24.4
12H	19.8	20.9	20.3	21.4	21.9	23.2	24.3	23.7	24.8	25.3
4H 2H	16.9	18.2	17.4	18.7	19.1	17.2	18.5	17.7	18.9	19.4
3H	19.0	20.1	19.5	20.6	21.1	19.7	20.9	20.2	21.3	21.8
4H	19.9	20.9	20.4	21.4	22.0	21.2	22.2	21.7	22.7	23.2
6H	20.7	21.6	21.3	22.2	22.7	22.8	23.7	23.3	24.2	24.8
8H	21.0	21.9	21.6	22.4	23.0	23.7	24.5	24.2	25.1	25.7
12H	21.3	22.1	21.9	22.7	23.3	24.7	25.5	25.3	26.1	26.7
8H 4H	20.5	21.4	21.0	21.9	22.5	21.6	22.4	22.1	23.0	23.6
6H	21.6	22.3	22.2	22.9	23.5	23.4	24.2	24.0	24.8	25.4
8H	22.1	22.7	22.7	23.3	24.0	24.5	25.2	25.1	25.8	26.4
12H	22.5	23.1	23.1	23.7	24.4	25.8	26.4	26.4	27.0	27.7
12H 4H	20.7	21.5	21.2	22.0	22.6	21.6	22.4	22.2	23.0	23.6
6H	21.9	22.6	22.5	23.2	23.8	23.6	24.2	24.2	24.8	25.5
8H	22.5	23.1	23.1	23.7	24.4	24.8	25.4	25.4	26.0	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1023 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.1)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

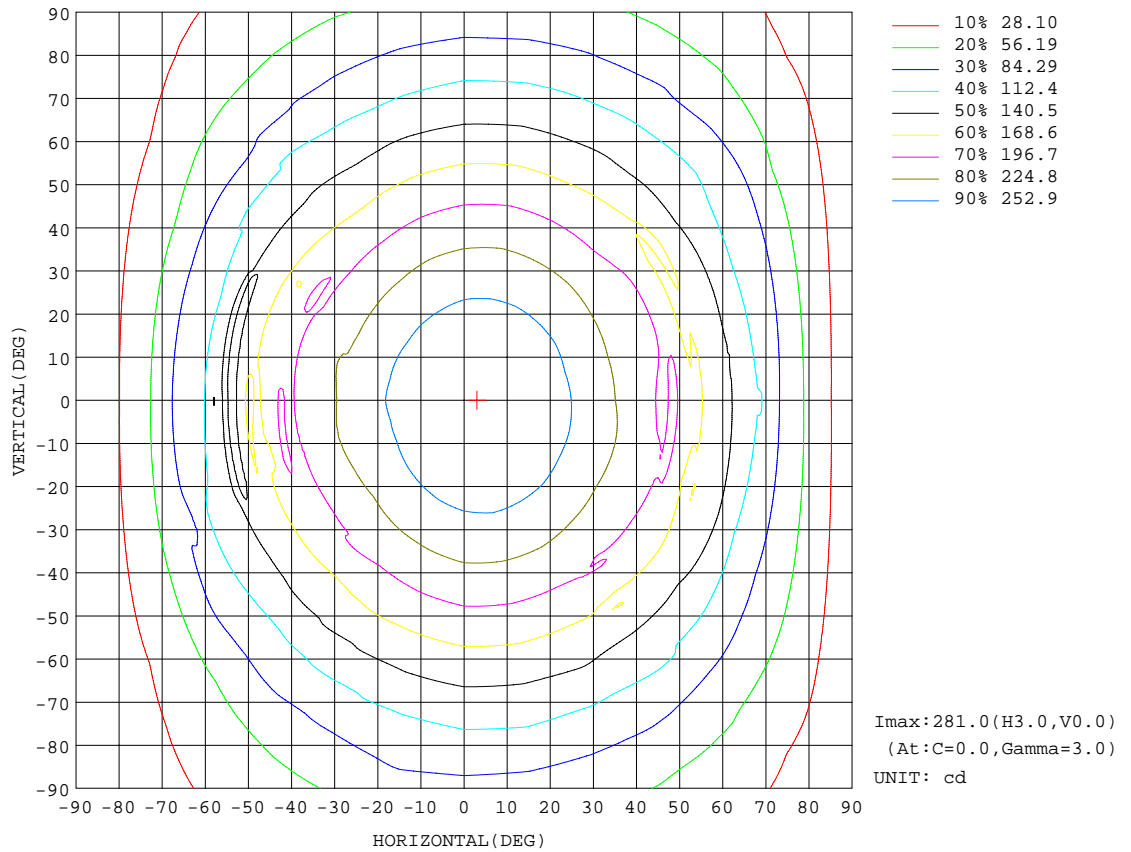
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	32	51	39	32	49	38	32	25
0.80	61	48	40	60	48	40	57	47	40	32
1.00	69	56	48	67	56	48	64	57	47	39
1.25	76	64	56	74	63	55	70	61	54	45
1.50	81	69	61	79	68	60	75	66	59	50
2.00	88	78	70	85	76	69	81	73	67	57
2.50	92	83	75	90	81	74	84	77	71	61
3.00	96	87	80	93	85	79	87	81	76	65
4.00	100	93	87	97	91	85	91	86	81	70
5.00	103	97	91	100	94	89	94	89	85	73
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:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

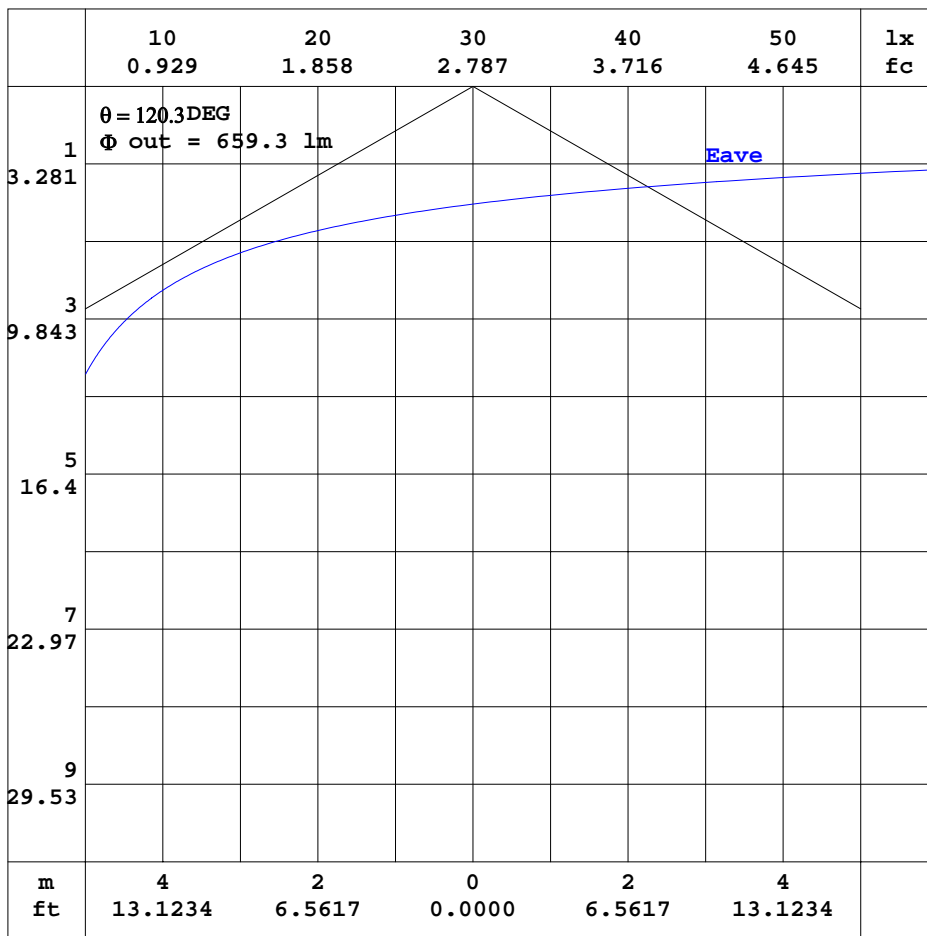


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



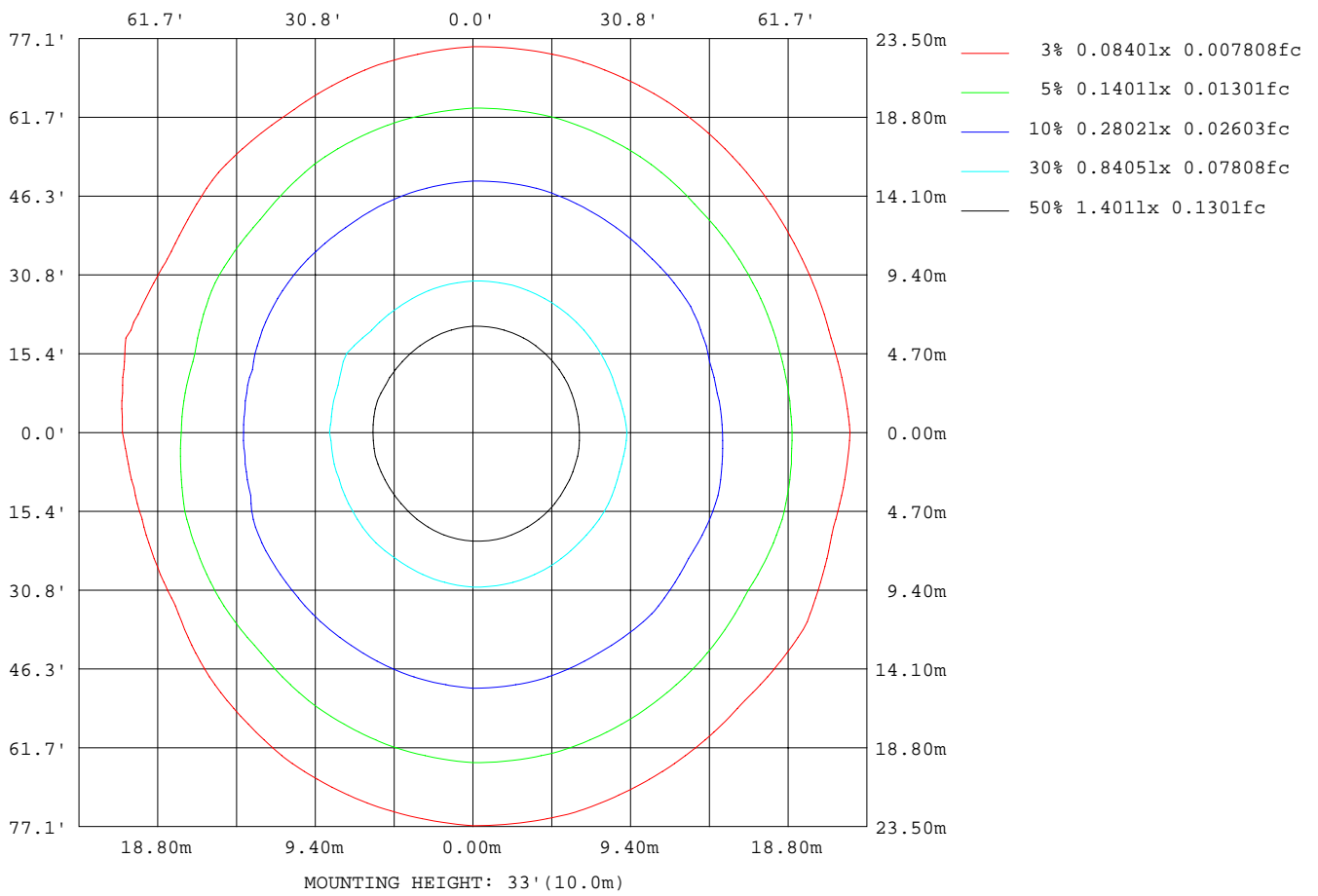
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	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:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

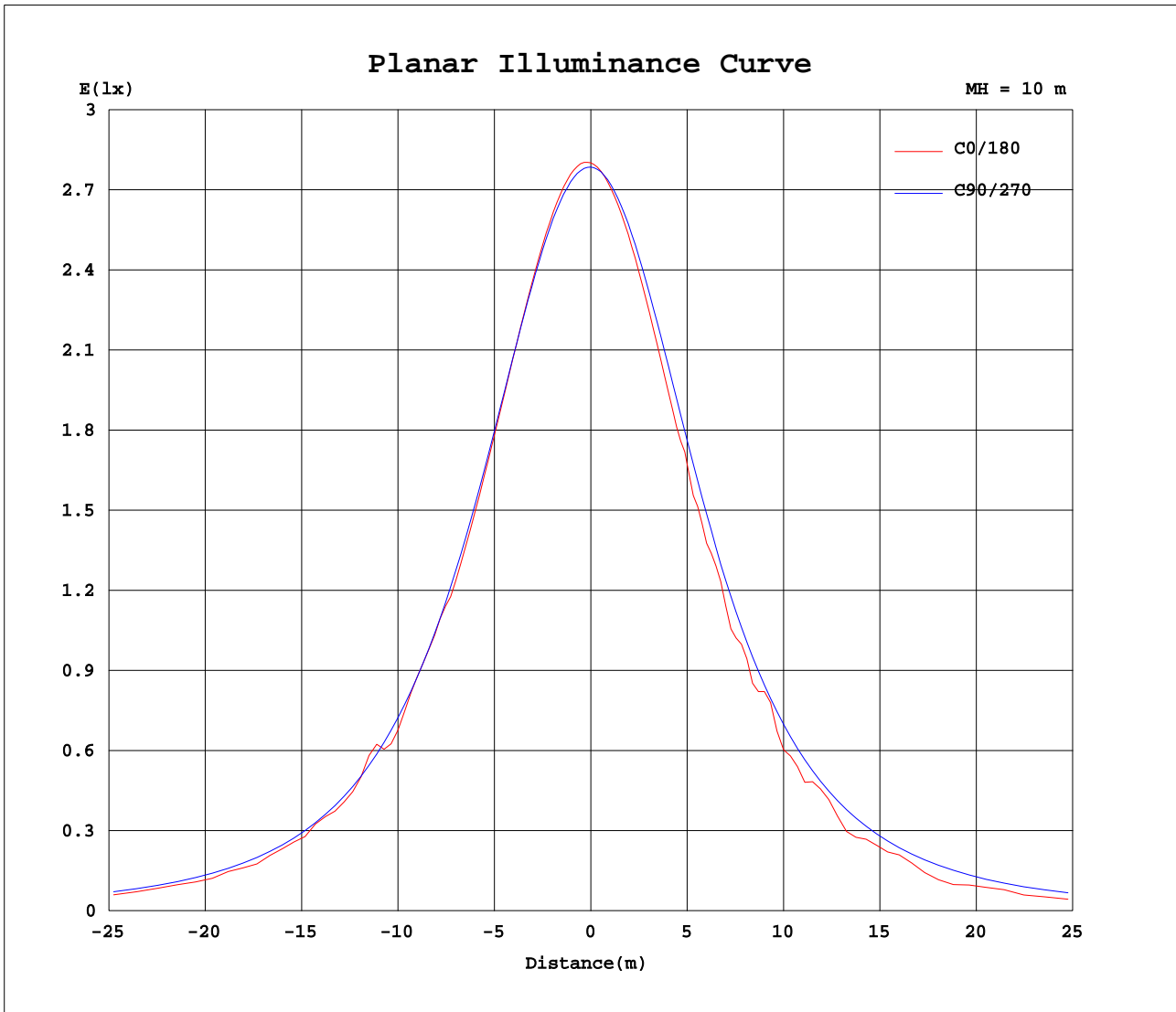
AvgL	cd/m2
L_0~180(65)av	2769
L_0~180(75)av	2291
L_0~180(85)av	2450
L_90~270(65)av	3341
L_90~270(75)av	4365
L_90~270(85)av	9951
L_45(65)av	2881
L_45(75)av	3411
L_45(85)av	6808

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-08

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: 2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	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	280	280	279	279	279	279	279	278	278	278	278	278	280	280	279	279	279	279	279
5	281	280	280	280	279	279	278	277	276	276	275	274	276	275	275	275	276	276	277
10	278	278	277	277	277	276	275	273	272	270	268	268	269	268	269	269	270	271	273
15	272	272	272	272	272	272	270	268	265	262	260	259	260	259	260	260	263	264	267
20	263	264	264	265	265	265	263	260	256	252	249	247	248	247	249	250	253	256	259
25	253	254	254	256	256	256	254	250	245	240	236	234	236	235	235	238	242	246	249
30	240	241	242	244	245	246	244	239	232	226	224	226	223	227	220	224	228	234	238
35	225	230	228	231	233	234	232	226	219	211	212	213	208	205	204	210	214	221	225
40	218	217	213	216	219	220	219	212	204	196	192	188	190	192	193	193	199	206	212
45	191	204	199	200	204	206	205	198	189	179	189	175	171	172	168	176	183	192	197
50	189	187	178	184	189	191	190	182	173	163	154	169	172	163	164	159	167	177	183
55	172	166	166	166	172	176	175	167	157	151	145	142	142	138	143	148	151	161	168
60	140	149	147	148	156	160	160	152	141	135	124	123	115	109	125	125	135	146	153
65	129	126	135	130	142	145	145	137	126	113	96.8	89.7	105	112	101	116	120	131	137
70	98.9	109	105	122	126	130	130	122	109	98.0	85.2	79.2	70.9	64.6	77.2	92.3	105	116	123
75	76.6	76.0	87.6	101	108	116	116	109	95.2	82.0	63.9	48.9	42.0	45.8	64.8	77.6	90.4	103	110
80	47.3	58.0	70.2	83.2	93.5	102	104	97.1	82.8	66.8	48.8	31.7	27.7	31.3	47.3	63.0	77.2	89.3	97.8
85	28.7	36.0	52.8	67.7	79.2	87.7	92.0	86.8	70.3	55.2	37.7	22.6	14.0	22.4	36.6	51.5	65.0	75.5	81.5
90	13.9	23.9	39.5	55.1	66.9	74.4	75.1	70.5	59.2	45.8	30.5	17.2	15.0	17.4	29.2	41.9	54.0	63.0	67.7
95	10.7	16.8	30.8	45.0	56.0	62.9	62.9	58.3	49.4	37.9	25.2	15.4	17.1	15.9	24.2	33.9	44.3	51.8	55.5
100	12.1	13.5	23.4	36.0	45.6	50.6	43.0	37.4	38.8	30.7	20.6	18.2	18.1	18.3	20.5	27.7	35.4	39.6	39.7
105	13.3	13.4	15.2	26.5	35.1	35.8	32.5	30.7	27.8	23.5	15.5	17.8	16.8	17.2	16.7	22.5	27.6	27.7	28.0
110	13.3	14.2	11.8	15.7	22.4	23.7	25.6	24.1	19.4	15.6	14.7	16.4	15.9	16.4	15.5	16.4	20.0	20.9	22.4
115	12.1	12.8	12.3	7.99	10.0	14.5	17.3	15.8	12.0	10.3	15.1	15.3	15.7	15.7	15.2	11.5	13.6	15.3	16.9
120	11.1	11.1	10.7	8.85	5.30	4.79	6.84	6.59	6.09	10.2	13.7	14.2	15.0	15.2	14.0	10.8	6.99	8.58	10.8
125	9.79	9.77	8.86	8.13	7.49	4.52	4.10	4.17	6.91	10.1	12.0	13.3	14.2	14.4	13.1	10.4	6.27	3.76	3.78
130	9.04	8.95	7.46	6.21	7.66	7.78	7.16	6.96	7.41	8.36	10.5	11.8	13.2	13.0	11.5	8.58	6.55	3.97	3.75
135	8.75	8.21	6.51	5.18	6.59	6.71	6.91	7.03	5.16	6.76	9.22	10.5	11.6	11.3	9.75	7.35	4.93	5.26	5.47
140	7.50	6.99	5.61	5.46	4.88	4.89	4.98	4.98	4.15	5.05	7.86	8.98	9.85	9.66	8.32	6.00	4.04	3.87	4.22
145	5.74	5.58	5.85	5.79	3.60	3.68	3.60	3.90	4.62	3.96	5.77	6.87	7.93	7.78	6.62	4.35	4.39	3.82	3.79
150	6.81	6.79	6.48	5.01	3.48	3.61	3.55	3.63	3.63	4.16	4.14	5.50	6.43	6.14	4.78	4.05	4.92	3.77	3.79
155	6.61	6.44	5.33	3.49	3.89	3.67	3.62	3.68	3.62	4.76	4.13	4.08	4.34	4.05	3.96	4.84	3.82	3.79	3.79
160	3.70	3.63	3.57	3.67	3.76	3.62	3.65	3.68	3.69	3.65	4.95	4.46	4.11	4.34	5.02	4.19	3.82	3.83	3.83
165	3.90	3.86	4.55	3.97	3.67	3.69	3.71	3.72	3.72	3.71	3.69	3.72	4.89	4.30	3.76	3.81	3.84	3.86	3.84
170	3.70	3.71	3.70	3.72	3.77	3.87	3.76	3.77	3.78	3.77	3.75	3.72	3.78	3.78	3.79	3.81	3.83	3.84	3.84
175	4.19	4.15	4.34	4.34	4.22	3.89	3.82	3.83	3.82	3.82	3.81	3.81	3.82	3.81	3.82	3.82	3.83	3.84	3.83
180	3.81	3.81	3.80	3.82	3.84	3.84	3.85	3.85	3.84	3.86	3.85	3.82	3.82	3.81	3.80	3.82	3.83	3.84	3.85

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

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:0.1311A P:15.01W PF:0.9542 Lamp Flux:1022.53x1 lm		
NAME: ASD-OLWS-21-N15CC-PC-BZ-BN 3000K	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	278	278	278	278	278														
5	277	278	278	279	279														
10	274	275	275	276	276														
15	268	270	270	270	270														
20	261	262	262	262	262														
25	251	252	252	252	251														
30	240	241	240	240	238														
35	228	227	227	225	224														
40	214	213	212	212	211														
45	200	198	195	199	206														
50	185	182	181	179	192														
55	170	166	163	174	165														
60	154	150	147	143	148														
65	138	134	128	124	126														
70	124	119	113	105	88.3														
75	110	105	92.0	89.9	79.6														
80	97.0	88.9	78.2	67.2	53.7														
85	80.8	74.4	63.0	50.7	33.9														
90	67.5	61.9	51.0	38.1	22.7														
95	55.7	50.8	41.2	29.5	16.0														
100	40.8	39.2	32.5	22.9	13.2														
105	28.0	27.2	24.4	17.2	14.6														
110	22.2	19.1	16.3	11.9	14.5														
115	16.6	13.2	9.45	11.3	12.9														
120	9.81	6.24	6.83	10.6	11.5														
125	4.20	3.98	6.81	9.10	10.3														
130	4.50	5.19	6.06	7.64	8.98														
135	6.25	5.77	5.39	6.41	7.95														
140	4.98	4.33	5.88	5.46	6.47														
145	4.77	3.71	5.84	5.93	5.33														
150	4.21	3.72	4.94	6.69	6.42														
155	3.90	4.53	3.75	5.55	6.24														
160	3.91	3.77	3.92	3.71	3.75														
165	3.81	3.76	3.72	4.30	3.93														
170	3.86	3.78	3.76	3.75	3.75														
175	3.85	4.12	4.20	3.99	3.94														
180	3.85	3.85	3.86	3.84	3.81														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

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: