Floodlight Summary:

Report based on lamp delivering 1000 lumens.

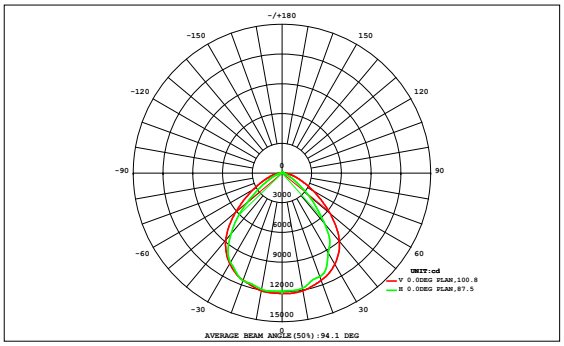
Maximum Intensity		**457.4 cd per klm.**
(Luminaire orientation as tested.)		**0.0 degrees vertical**
		-4.0 degrees horizontal
Beam Spread	**At 10% of Imax**	**126.2V x 149.9H**
	At 50% of Imax	**87.5V x 100.8H**
	At 90% of Imax	**48.4V x 54.0H**
Beam Flux	**Total**	**1000.1 lumens per klm.**
	To 10% of Imax	**951.6 lumens per klm.**
	To 50% of Imax	**721.2 lumens per klm.**
	To 90% of Imax	**258.2 lumens per klm.**
	Upward LOR	**1.0 %**
	Downward LOR	**99.0 %**
Luminaire Efficiency(Light Output Ratio)		**100.0 %**

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.22V I:1.4776A P:177.28W PF:0.9979 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:26582.2x1 lm		
NAME: ASD-FL2-180BK-PC-AM	TYPE: 180W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.275*0.15	Shielding Angle:



DATA OF LAMP		Eff:149.94lm/W	
MODEL ASD-FL2-180BK-PC-AM		Imax(cd)	12159
NOMINAL POWER(W)	180	AVAILABILITY(%)	95.1
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	25286
NOMINAL FLUX(lm)	26582.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	26582
TEST VOLTAGE(V)	120	θ @50%(H,V)	101,87DEG

AREA FLUX DIAGRAM UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG) 20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.13	0.85	2.18	3.24	3.88	4.45	4.63	4.78	4.79	4.69	4.51	4.19	3.85	3.23	2.57	1.64	0.57	0.07	54.2	0.00
80	0.30	2.36	6.13	9.51	12.3	14.5	15.5	16.1	16.1	15.9	15.3	14.3	13.1	10.9	8.25	5.14	1.86	0.19	178	0.00
70	0.51	3.91	10.1	16.9	23.8	30.4	35.0	38.5	40.0	39.5	36.9	32.9	28.1	21.7	15.1	8.85	3.28	0.37	386	179
60	0.71	5.37	14.3	26.3	41.3	58.4	74.7	88.0	95.8	94.7	85.2	70.9	54.5	38.0	23.9	12.8	4.65	0.55	790	751
50	0.90	6.74	18.9	38.9	67.7	105	144	175	192	190	170	138	98.9	62.9	35.6	17.1	5.95	0.71	1469	1448
40	1.05	8.01	23.8	54.1	101	163	223	264	285	283	259	215	155	94.9	49.8	21.6	7.16	0.86	2208	2193
30	1.18	9.11	28.5	68.5	134	210	273	314	334	332	309	266	202	127	63.7	26.1	8.22	0.98	2707	2695
20	1.26	9.96	32.4	79.6	155	236	297	336	355	352	330	289	229	149	74.9	29.7	9.03	1.06	2966	2956
10	1.31	10.5	34.8	85.9	165	246	306	346	365	360	341	302	241	161	81.5	32.0	9.52	1.10	3090	3080
0	1.29	10.3	34.2	84.0	162	241	300	339	358	363	344	303	241	159	80.4	31.7	9.43	1.09	3064	3054
-10	1.21	9.55	30.6	74.1	145	222	282	322	343	346	327	288	225	144	71.8	28.7	8.78	1.02	2871	2860
-20	1.10	8.48	25.9	60.4	117	187	248	292	315	317	296	253	190	118	59.1	24.5	7.83	0.92	2520	2507
-30	0.95	7.18	20.7	45.1	83.3	134	187	228	249	250	230	189	136	83.6	44.6	19.8	6.66	0.79	1916	1899
-40	0.77	5.76	15.7	31.1	52.6	79.4	111	136	151	151	137	112	80.0	52.6	30.7	15.1	5.33	0.62	1168	1140
-50	0.57	4.24	11.1	19.9	30.2	41.4	53.0	62.8	68.5	68.7	63.2	53.4	41.6	30.2	19.7	10.8	3.90	0.45	584	509
-60	0.38	2.69	6.91	11.5	15.4	19.4	22.2	24.4	25.6	25.6	24.5	22.4	19.6	15.4	11.4	6.77	2.42	0.27	257	14.1
-70	0.20	1.24	3.01	4.78	5.61	6.71	7.04	7.35	7.38	7.41	7.44	7.15	6.80	5.67	4.75	2.92	1.06	0.12	86.6	0.00
-80	0.08	0.30	0.49	0.68	0.57	0.59	0.53	0.51	0.48	0.49	0.54	0.57	0.64	0.60	0.69	0.48	0.21	0.04	8.49	0.00
-90																				
Φ t	13.9	107	320	715	1316	1998	2585	2995	3206	3201	2982	2562	1965	1277	678	296	95.9	11.2	26322	---
Φ a	0.00	37.3	260	655	1256	1937	2521	2932	3142	3135	2918	2497	1903	1217	618	232	25.5	0.00	---	25286

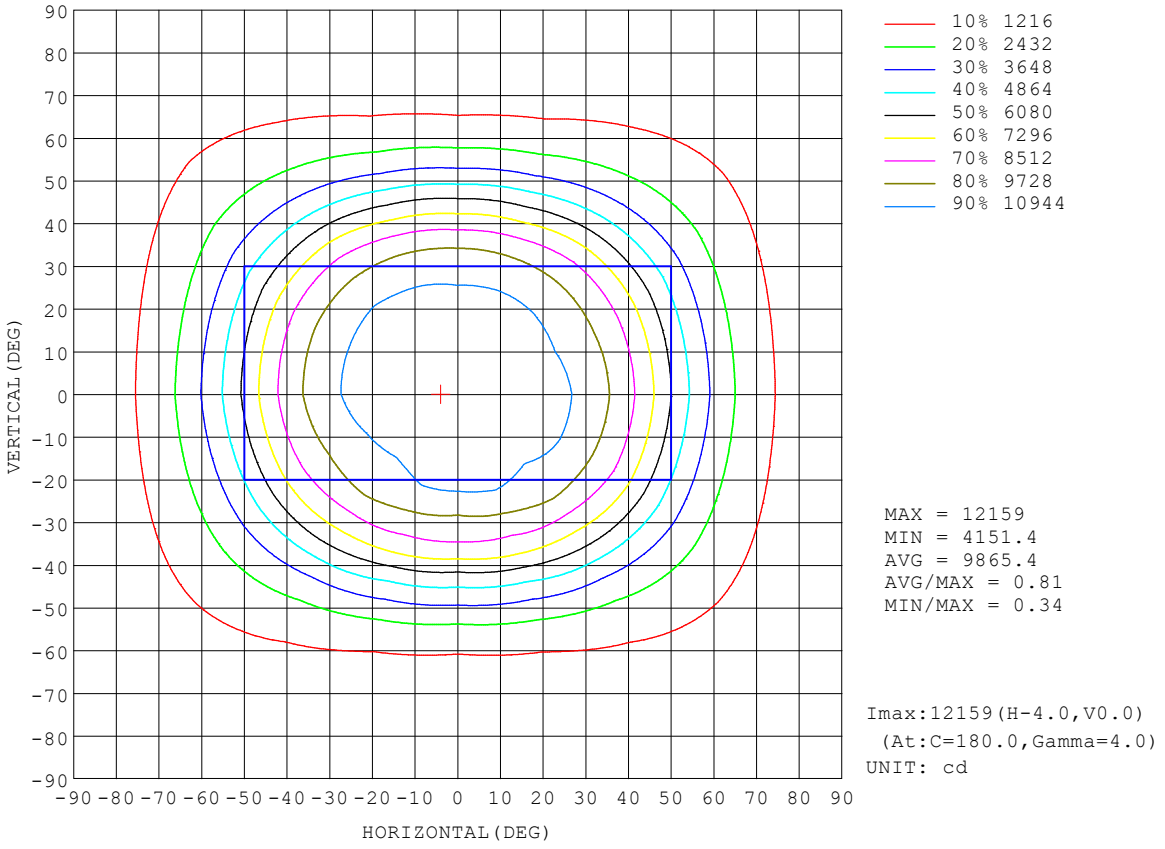
one-half-peak spread: U:36.8,D:39.0 , L:47.0,R:54.2 NEMA Beam Type: Type 7 x 6 (H x V)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.22V I:1.4776A P:177.28W PF:0.9979 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:26582.2x1 lm		
NAME: ASD-FL2-180BK-PC-AM	TYPE: 180W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.275*0.15	Shielding Angle:

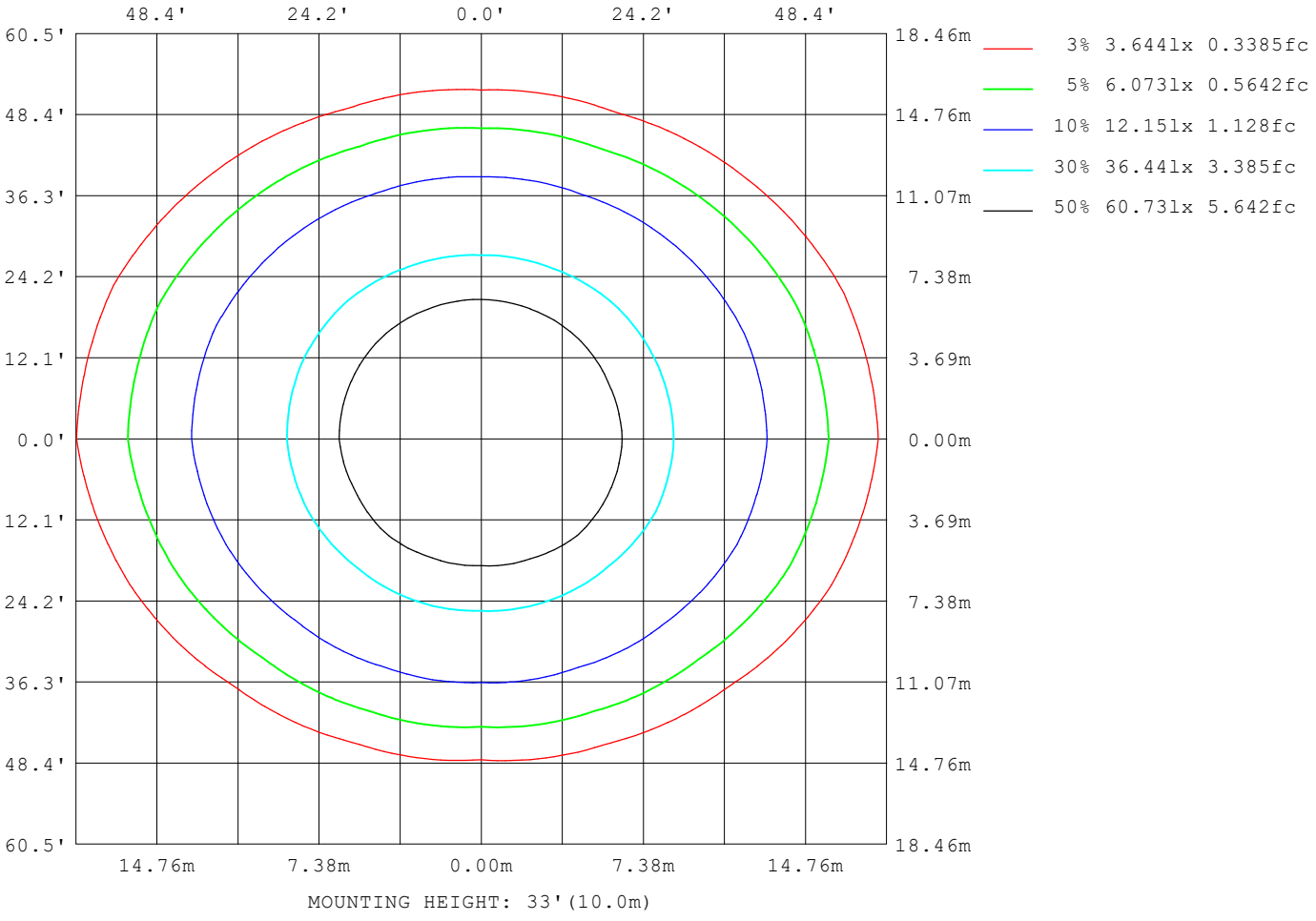


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

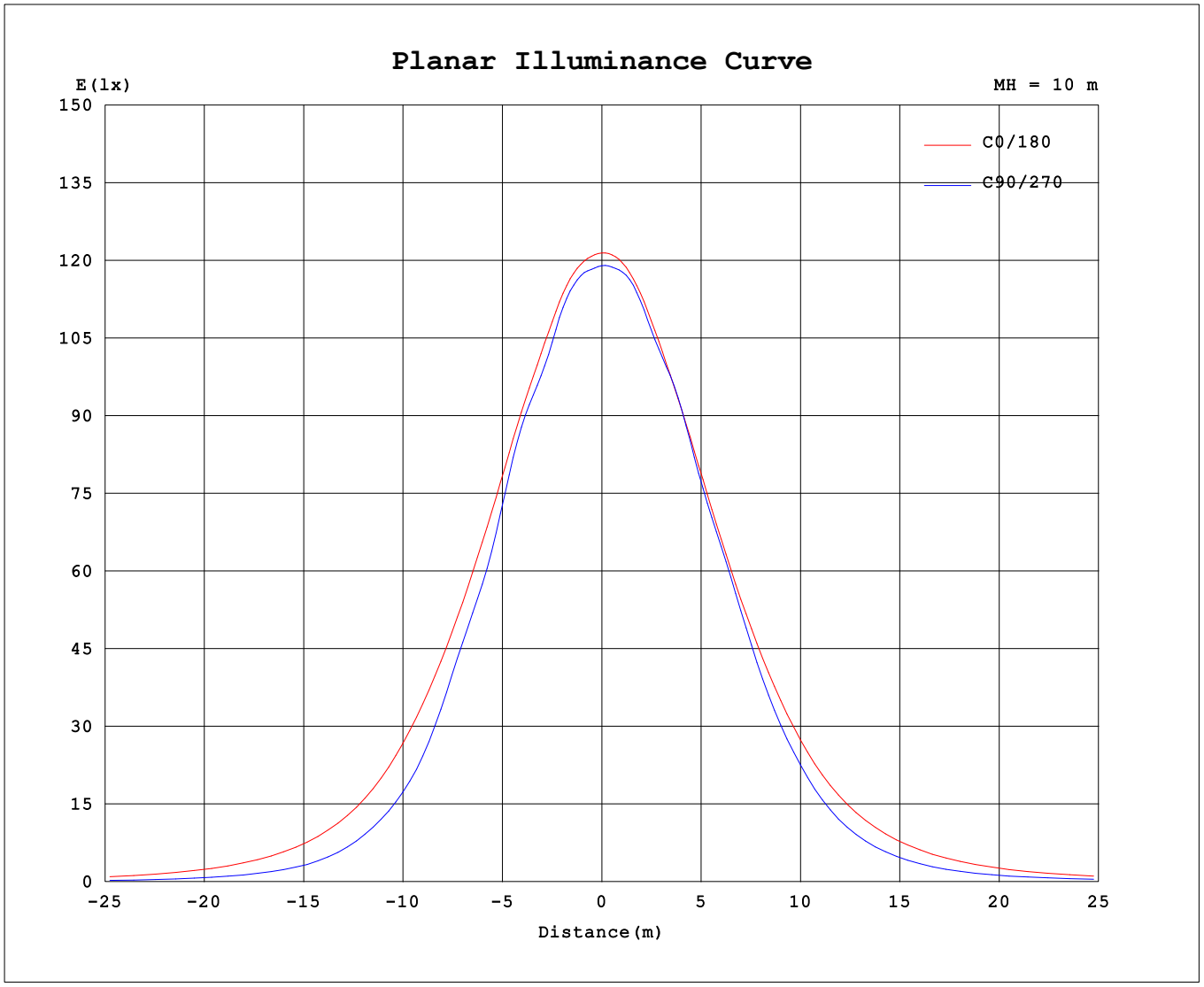
Test:U:120.22V I:1.4776A P:177.28W PF:0.9979 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:26582.2x1 lm		
NAME: ASD-FL2-180BK-PC-AM	TYPE: 180W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.275*0.15	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

Planar Illuminance Curve



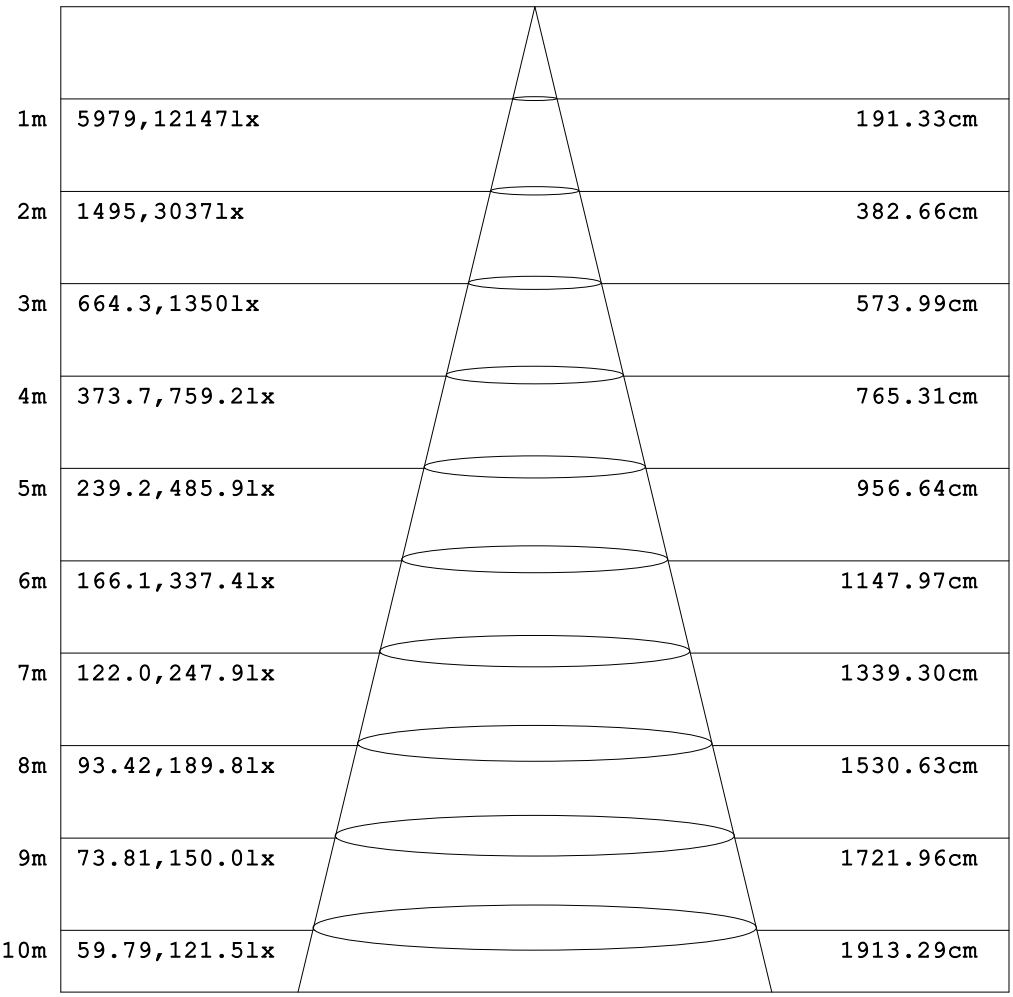
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.22V I:1.4776A P:177.28W PF:0.9979 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:26582.2x1 lm		
NAME: ASD-FL2-180BK-PC-AM	TYPE: 180W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.275*0.15	Shielding Angle:

Flux out:17516 lm



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

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.22V I:1.4776A P:177.28W PF:0.9979 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:26582.2x1 lm		
NAME: ASD-FL2-180BK-PC-AM	TYPE: 180W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.275*0.15	Shielding Angle:

Table--1 UNIT: X10cd

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	1.60	1.69	2.14	2.68	3.29	3.94	4.61	5.29	5.96	6.58	7.19	7.75	8.28	8.79	9.29	9.70	10.1	10.3	10.4
-170	1.60	1.66	2.06	2.55	3.07	3.62	4.18	4.72	5.25	5.75	6.21	6.64	7.06	7.45	7.95	8.53	9.04	9.39	9.55
-160	1.60	1.62	1.96	2.36	2.79	3.22	3.65	4.05	4.43	4.77	5.07	5.58	6.11	6.62	7.11	7.55	7.91	8.15	8.24
-150	1.60	1.57	1.83	2.15	2.47	2.79	3.08	3.34	3.57	4.01	4.45	4.88	5.29	5.67	6.03	6.33	6.57	6.74	6.81
-140	1.60	1.52	1.70	1.92	2.14	2.34	2.51	2.73	3.07	3.41	3.74	4.07	4.38	4.66	4.92	5.12	5.31	5.43	5.48
-130	1.60	1.48	1.56	1.69	1.82	1.91	2.04	2.28	2.52	2.76	2.99	3.22	3.43	3.62	3.79	3.94	4.07	4.16	4.20
-120	1.60	1.44	1.43	1.47	1.51	1.53	1.66	1.82	1.97	2.12	2.27	2.41	2.53	2.64	2.73	2.84	2.92	2.98	3.00
-110	1.60	1.42	1.33	1.27	1.23	1.22	1.30	1.38	1.46	1.54	1.61	1.67	1.73	1.78	1.82	1.88	1.92	1.95	1.96
-100	1.60	1.41	1.27	1.14	1.03	0.97	0.99	1.00	1.02	1.04	1.05	1.06	1.07	1.07	1.08	1.10	1.11	1.12	1.12
-90	1.60	1.45	1.29	1.14	0.99	0.89	0.83	0.78	0.73	0.68	0.66	0.64	0.62	0.60	0.59	0.59	0.59	0.59	0.58
-80	1.60	3.77	6.52	8.33	9.26	10.4	11.4	11.8	10.8	8.87	9.21	9.34	9.07	8.38	8.00	8.17	8.10	7.79	7.25
-70	1.60	8.11	16.0	23.5	31.2	37.9	42.6	45.5	46.0	45.2	47.0	48.1	47.6	46.9	46.1	47.2	47.4	46.4	44.5
-60	1.60	13.1	27.4	42.5	56.6	69.9	79.6	87.7	94.6	101	107	114	119	123	125	131	135	136	133
-50	1.60	18.2	39.7	61.3	82.6	102	122	142	164	185	206	228	255	281	303	323	340	348	346
-40	1.60	23.1	51.0	79.4	108	138	173	213	259	308	362	419	482	540	585	622	657	674	671
-30	1.60	27.5	60.9	95.7	133	176	231	297	376	463	559	655	737	804	863	897	918	934	932
-20	1.60	31.1	69.1	110	155	214	289	381	490	612	736	837	913	982	1033	1064	1094	1106	1111
-10	1.60	33.6	75.1	120	174	245	338	449	579	719	845	940	1008	1061	1098	1127	1159	1173	1180
0	1.60	35.0	78.5	127	185	265	369	491	631	775	899	994	1064	1117	1153	1181	1206	1216	1215
10	1.60	34.6	77.1	123	179	254	353	471	608	752	880	975	1046	1103	1143	1168	1193	1199	1191
20	1.60	32.9	73.0	116	166	230	316	421	544	679	808	909	985	1047	1096	1121	1146	1155	1155
30	1.60	30.0	66.7	104	146	198	264	347	446	547	655	762	854	922	972	1009	1029	1040	1041
40	1.60	26.1	58.2	90.1	124	162	208	262	321	386	458	534	610	674	724	760	791	805	803
50	1.60	21.4	48.2	74.4	99.9	127	155	182	212	245	279	314	349	381	407	432	452	461	457
60	1.60	16.2	36.7	57.2	76.3	94.2	108	121	133	145	156	167	176	182	186	193	199	200	196
70	1.60	10.7	24.2	38.6	52.3	63.6	69.4	74.1	78.2	81.1	83.4	85.3	85.8	84.8	83.5	84.7	84.8	83.6	81.3
80	1.60	5.44	11.9	19.2	26.6	32.3	34.8	35.8	35.7	34.9	35.5	35.4	34.5	32.8	31.9	31.9	31.4	30.6	29.5
90	1.60	2.05	2.50	2.95	3.40	3.57	3.46	3.35	3.24	3.13	2.98	2.82	2.67	2.51	2.42	2.40	2.38	2.36	2.33
100	1.60	1.61	1.53	1.50	1.48	1.46	1.43	1.41	1.39	1.37	1.36	1.35	1.33	1.31	1.30	1.30	1.30	1.29	1.27
110	1.60	1.54	1.54	1.59	1.66	1.75	1.83	1.91	1.97	2.03	2.09	2.15	2.19	2.22	2.25	2.29	2.31	2.31	2.30
120	1.60	1.55	1.62	1.77	1.96	2.16	2.34	2.51	2.67	2.84	2.99	3.14	3.27	3.37	3.45	3.55	3.62	3.65	3.66
130	1.60	1.57	1.73	1.99	2.27	2.57	2.86	3.15	3.43	3.71	3.97	4.21	4.43	4.62	4.77	4.91	5.03	5.11	5.13
140	1.60	1.60	1.85	2.20	2.57	2.96	3.37	3.77	4.17	4.55	4.91	5.24	5.54	5.81	6.04	6.21	6.39	6.49	6.54
150	1.60	1.63	1.96	2.38	2.84	3.32	3.82	4.33	4.83	5.30	5.75	6.16	6.53	6.86	7.16	7.39	7.57	7.71	7.77
160	1.60	1.66	2.05	2.53	3.05	3.62	4.20	4.79	5.36	5.91	6.42	6.90	7.33	7.72	8.06	8.37	8.61	8.79	8.88
170	1.60	1.68	2.11	2.63	3.21	3.83	4.47	5.11	5.75	6.35	6.91	7.44	7.91	8.35	8.77	9.13	9.44	9.67	9.79
180	1.60	1.69	2.14	2.68	3.29	3.94	4.61	5.29	5.96	6.58	7.19	7.75	8.28	8.79	9.29	9.70	10.1	10.3	10.3

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.22V I:1.4776A P:177.28W PF:0.9979 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:26582.2x1 lm		
NAME: ASD-FL2-180BK-PC-AM	TYPE: 180W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.275*0.15	Shielding Angle:

Table--2 UNIT: X10cd

H(DEG) / V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	10.1	9.70	9.13	8.47	7.77	7.07	6.38	5.74	5.11	4.48	3.88	3.31	2.78	2.29	1.85	1.45	1.12	1.12
-170	9.42	9.14	8.74	8.22	7.61	6.95	6.31	5.68	5.05	4.43	3.84	3.28	2.75	2.27	1.83	1.44	1.12	1.12
-160	8.20	8.01	7.73	7.35	6.91	6.42	5.90	5.37	4.79	4.21	3.66	3.14	2.64	2.19	1.78	1.41	1.11	1.12
-150	6.82	6.73	6.55	6.30	5.98	5.61	5.20	4.76	4.30	3.84	3.36	2.90	2.47	2.06	1.69	1.36	1.09	1.12
-140	5.50	5.45	5.34	5.17	4.94	4.68	4.37	4.04	3.68	3.32	2.96	2.59	2.23	1.89	1.58	1.29	1.07	1.12
-130	4.22	4.20	4.13	4.02	3.87	3.70	3.50	3.28	3.02	2.76	2.49	2.23	1.96	1.69	1.44	1.21	1.05	1.12
-120	3.03	3.02	2.99	2.93	2.85	2.76	2.64	2.51	2.35	2.18	2.01	1.84	1.66	1.47	1.29	1.13	1.04	1.12
-110	1.98	1.99	1.98	1.96	1.94	1.90	1.85	1.80	1.73	1.64	1.55	1.45	1.36	1.24	1.14	1.06	1.04	1.12
-100	1.15	1.16	1.17	1.18	1.18	1.19	1.19	1.19	1.18	1.16	1.13	1.11	1.09	1.06	1.03	1.02	1.05	1.12
-90	0.60	0.62	0.63	0.65	0.67	0.70	0.73	0.76	0.78	0.83	0.87	0.92	0.96	1.00	1.03	1.06	1.09	1.12
-80	7.85	8.23	8.35	8.22	8.62	9.31	9.57	9.44	9.01	10.8	11.6	11.2	10.0	8.43	6.46	3.95	1.51	1.12
-70	46.6	47.7	47.7	46.7	47.6	48.2	48.5	47.4	45.7	46.0	45.3	42.1	37.2	29.3	20.5	12.4	4.61	1.12
-60	136	135	131	126	124	120	115	107	101	93.9	86.4	78.1	68.6	54.0	38.5	22.9	8.83	1.12
-50	349	341	325	305	283	257	230	206	185	163	140	119	99.0	78.5	56.5	34.2	13.3	1.12
-40	676	662	629	591	545	488	423	364	308	258	211	169	132	102	73.5	44.7	17.6	1.12
-30	939	925	907	876	816	746	663	564	465	376	292	223	168	125	88.3	53.9	21.5	1.12
-20	1113	1105	1078	1051	1003	932	850	746	613	484	371	276	201	145	101	61.3	24.7	1.12
-10	1187	1183	1154	1126	1085	1022	947	845	712	566	433	319	228	161	110	66.4	26.8	1.12
0	1213	1206	1178	1150	1113	1055	983	886	758	609	467	344	243	171	116	69.1	27.9	1.12
10	1182	1172	1143	1115	1076	1022	953	856	727	582	445	328	233	164	112	67.7	27.5	1.12
20	1149	1133	1104	1073	1020	958	878	774	646	514	393	291	210	151	104	63.8	25.9	1.12
30	1034	1018	992	951	896	823	728	622	515	415	321	242	181	133	93.5	57.7	23.3	1.12
40	799	778	740	701	647	580	506	431	360	297	240	190	147	111	80.2	49.7	19.8	1.12
50	456	443	418	391	363	330	295	260	226	195	166	140	113	89.1	65.0	40.2	15.6	1.12
60	197	194	186	177	172	165	155	144	133	121	109	96.2	83.5	66.8	48.6	29.4	11.0	1.12
70	82.4	82.3	81.1	78.9	79.2	79.3	78.1	75.8	72.9	69.6	65.5	60.8	54.6	44.1	31.2	18.3	6.33	1.12
80	30.0	30.2	30.1	29.6	30.0	31.1	31.4	31.0	29.9	30.5	30.1	28.4	25.8	20.7	14.1	7.60	2.46	1.12
90	2.24	2.15	2.06	1.97	1.94	1.95	1.96	1.98	1.99	1.91	1.84	1.76	1.69	1.59	1.47	1.36	1.24	1.12
100	1.30	1.31	1.32	1.33	1.35	1.37	1.39	1.41	1.42	1.43	1.45	1.47	1.49	1.43	1.32	1.23	1.16	1.12
110	2.33	2.33	2.32	2.29	2.27	2.25	2.21	2.16	2.10	2.03	1.96	1.89	1.81	1.61	1.40	1.23	1.13	1.12
120	3.67	3.66	3.60	3.52	3.45	3.35	3.23	3.08	2.92	2.75	2.58	2.40	2.20	1.85	1.54	1.29	1.12	1.12
130	5.14	5.10	5.00	4.88	4.74	4.56	4.34	4.09	3.81	3.52	3.23	2.94	2.52	2.08	1.69	1.35	1.12	1.12
140	6.55	6.49	6.36	6.20	5.99	5.72	5.41	5.06	4.68	4.28	3.87	3.35	2.77	2.26	1.81	1.42	1.13	1.12
150	7.77	7.69	7.56	7.36	7.09	6.75	6.35	5.92	5.45	4.95	4.24	3.56	2.94	2.38	1.89	1.46	1.14	1.12
160	8.83	8.71	8.54	8.28	7.94	7.55	7.10	6.58	5.81	5.05	4.31	3.63	2.99	2.42	1.92	1.48	1.14	1.12
170	9.66	9.52	9.28	8.95	8.43	7.75	7.04	6.32	5.59	4.87	4.19	3.54	2.93	2.39	1.91	1.48	1.13	1.12
180	10.1	9.70	9.13	8.47	7.77	7.07	6.38	5.74	5.11	4.48	3.88	3.31	2.78	2.29	1.85	1.45	1.12	1.12

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks: