

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity	343.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	160.4V x 160.7H
	At 50% of Imax	151.4V x 147.2H
	At 90% of Imax	142.7V x 141.8H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	986.9 lumens per klm.
	To 50% of Imax	747.4 lumens per klm.
	To 90% of Imax	85.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

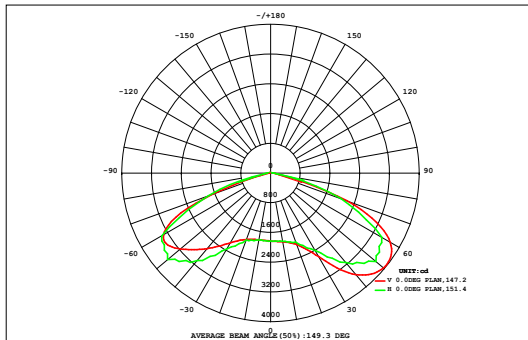
Luminaire Efficiency (Light Output Ratio)	100.0 %
---	---------

**H(B) Range:-90 - 90DEG**  
**H(B) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:2023-10-26**

**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000 SYSTEM V2.0.353**  
**Humidity:65.0%**  
**Test Distance:7.370m [K=1.0000]**  
**Remarks:**

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.4664A P:101.4W PF:0.9841 Freq:49.99Hz Lamp Flux:15518x1 lm		
NAME: LUX-AL-100-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:VSM



DATA OF LAMP		Eff:153.10lm/W	
MODEL	LED	Imax(cd)	5322
NOMINAL POWER(W)	100	AVAILABILITY(%)	98.8
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	15331
NOMINAL FLUX(lm)	15518	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	15518
TEST VOLTAGE(V)	230	θ @50% (H,V)	147,151DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.10	0.32	0.66	1.22	1.82	3.01	3.53	3.54	3.45	3.50	3.76	3.63	2.92	1.68	1.15	0.66	0.33	0.10	35.4	0.00
90	0.10	0.44	1.62	6.59	23.1	37.0	38.1	35.0	32.8	33.3	36.5	39.3	35.6	19.9	5.46	1.65	0.54	0.12	347	323
80	0.11	0.91	5.88	31.4	71.8	94.0	93.3	87.1	83.5	86.5	94.5	101	93.6	60.9	22.1	4.02	0.85	0.14	932	922
70	0.12	1.38	13.0	56.0	99.8	118	118	112	109	113	123	131	127	100	52.8	11.9	1.53	0.19	1287	1281
60	0.17	2.83	27.1	71.7	101	109	108	104	103	110	123	133	129	106	64.5	19.2	2.04	0.20	1313	1309
50	0.17	3.55	31.0	68.9	88.4	92.0	88.9	84.8	83.5	87.6	98.9	114	118	104	73.0	31.0	3.76	0.26	1173	1170
40	0.26	6.43	38.3	65.9	75.2	73.9	69.1	66.1	65.8	68.4	76.5	93.5	105	96.8	70.7	32.4	4.09	0.25	1009	1006
30	0.23	6.00	36.6	61.4	67.5	64.7	59.8	57.8	57.8	58.9	62.1	72.4	89.4	89.3	70.6	38.0	6.46	0.32	899	897
20	0.33	8.44	38.8	57.7	61.0	58.0	54.6	54.4	55.5	56.6	58.8	67.2	83.2	84.4	67.4	35.6	5.55	0.30	848	846
10	0.29	6.62	36.7	58.0	62.0	59.1	55.1	54.2	55.1	56.0	57.6	64.6	79.7	83.1	68.0	38.3	7.19	0.37	842	840
0	0.36	7.84	38.7	60.5	65.1	62.2	57.6	56.1	56.5	58.2	62.3	74.0	90.3	88.7	68.9	34.8	5.10	0.33	888	885
-10	0.28	4.98	34.8	64.8	75.1	73.8	68.4	64.6	63.9	66.5	73.7	88.3	101	95.5	72.0	35.8	5.57	0.38	990	987
-20	0.30	4.76	33.9	69.0	86.1	88.5	85.1	81.4	81.3	86.8	99.1	114	117	103	69.9	27.4	3.17	0.31	1151	1148
-30	0.22	2.31	22.6	67.1	98.3	108	107	102	100	106	118	128	126	107	68.1	23.0	2.74	0.31	1287	1283
-40	0.22	1.82	15.4	58.9	99.1	115	114	109	106	111	122	130	125	97.1	48.8	10.1	1.53	0.26	1264	1258
-50	0.19	0.98	4.65	26.9	66.6	89.9	90.5	84.0	79.7	81.4	88.2	94.9	90.8	63.7	25.9	4.96	1.19	0.25	895	885
-60	0.19	0.72	1.94	6.61	22.5	34.4	34.7	31.6	29.8	30.8	33.8	36.5	32.6	16.8	4.27	1.76	0.79	0.22	320	290
-70	0.19	0.59	1.03	1.52	1.90	2.70	3.17	3.34	3.37	3.47	3.61	3.48	2.97	2.14	1.77	1.17	0.67	0.22	37.3	0.00
-80	0.19	0.59	1.03	1.52	1.90	2.70	3.17	3.34	3.37	3.47	3.61	3.48	2.97	2.14	1.77	1.17	0.67	0.22	37.3	0.00
-90	0.19	0.59	1.03	1.52	1.90	2.70	3.17	3.34	3.37	3.47	3.61	3.48	2.97	2.14	1.77	1.17	0.67	0.22	37.3	0.00
HORIZONTAL (DEG)																				
Φ t	3.84	60.9	383	834	1166	1283	1248	1191	1170	1217	1335	1490	1550	1321	856	352	53.1	4.52	15518	---
Φ a	0.00	45.0	369	824	1159	1275	1238	1181	1160	1207	1324	1480	1542	1314	843	336	34.6	0.00	---	15331

one-half-peak spread: U:25.4,D:26.1 , L:15.6,R:22.6

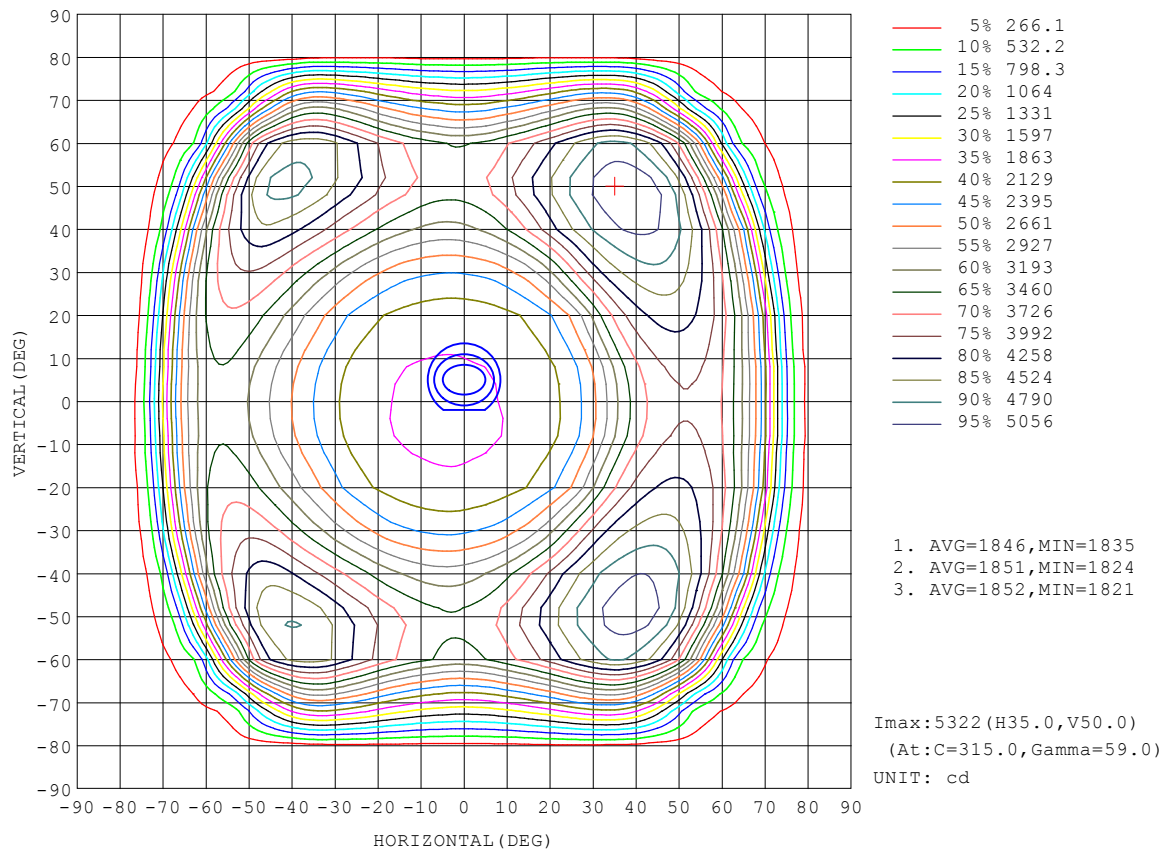
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.8V I:0.4664A P:101.4W PF:0.9841 Freq:49.99Hz Lamp Flux:15518x1 lm		
NAME: LUX-AL-100-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:VSM

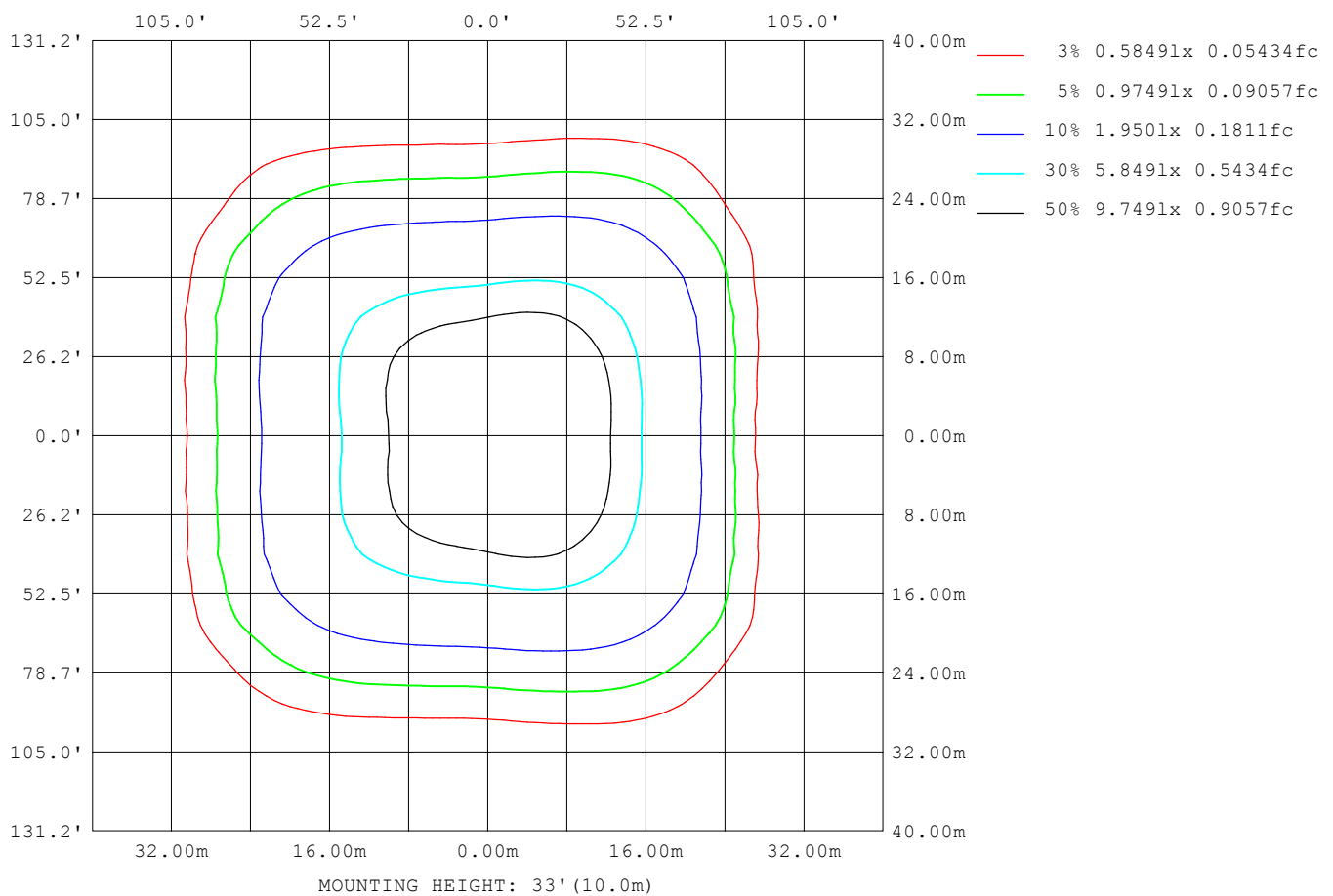


H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

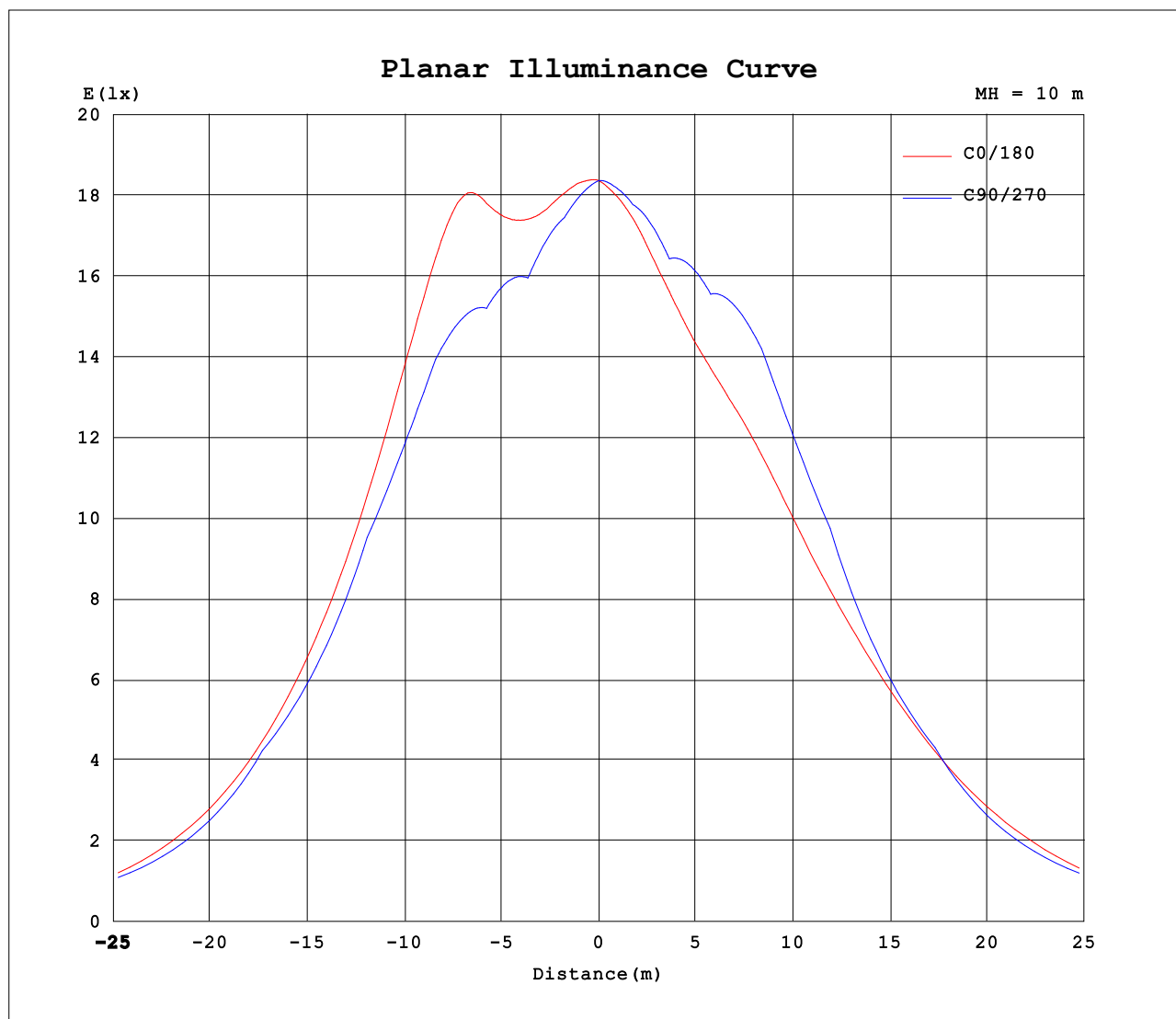
Test:U:220.8V I:0.4664A P:101.4W PF:0.9841 Freq:49.99Hz Lamp Flux:15518x1 lm		
NAME: LUX-AL-100-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:VSM



H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



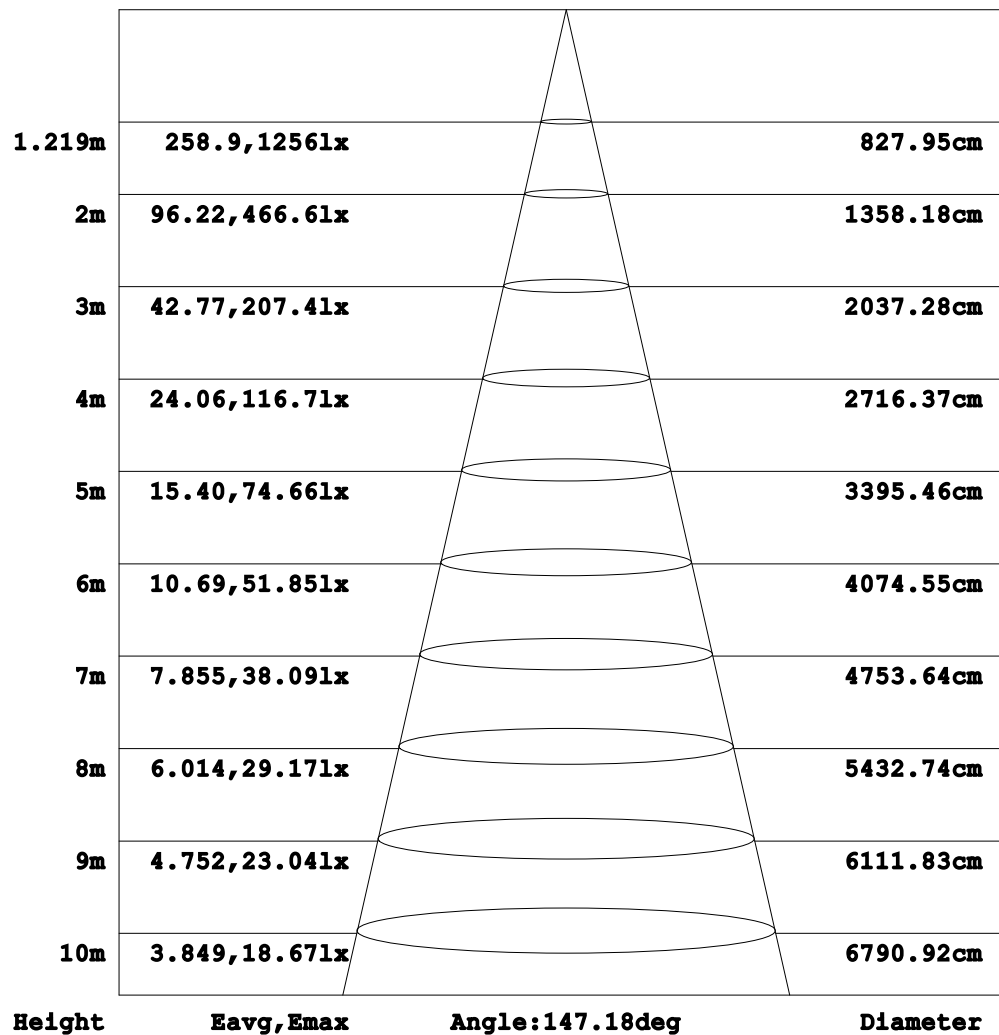
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

## AAI Figure

Test:U:220.8V I:0.4664A P:101.4W PF:0.9841 Freq:49.99Hz Lamp Flux:15518x1 lm		
NAME: LUX-AL-100-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:VSM

Flux out:14706 lm



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

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.4664A P:101.4W PF:0.9841 Freq:49.99Hz Lamp Flux:15518x1 lm		
NAME: LUX-AL-100-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:VSM

Table--1

UNIT: cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	69.5	73.1	75.3	76.9	77.9	78.0	78.4	78.9	79.3	79.4	79.3	79.1	78.9	78.5	78.2	78.2	78.6	79.4	80.6
-85	68.9	72.0	74.3	76.4	79.3	83.3	90.2	96.9	100	105	121	128	130	131	130	127	124	125	127
-80	68.0	68.9	71.1	73.9	77.3	85.0	96.7	115	127	137	149	198	204	208	210	206	193	192	196
-75	67.9	68.6	71.7	79.5	95.8	122	159	225	460	762	1014	1152	1143	1081	1001	926	866	833	818
-70	67.4	70.5	79.6	107	154	221	319	677	1422	2095	2518	2594	2460	2274	2068	1920	1821	1755	1767
-65	66.9	71.4	88.4	132	214	382	873	1604	2472	3051	3366	3385	3201	2976	2752	2585	2474	2403	2426
-60	66.1	67.5	80.1	124	212	381	979	2224	3485	4276	4581	4634	4481	4200	3923	3693	3525	3406	3379
-55	63.9	66.7	86.1	145	276	633	1517	2775	3843	4480	4692	4674	4485	4217	3955	3735	3573	3464	3451
-50	62.2	77.8	138	262	634	1773	3135	4127	4668	4859	4806	4596	4335	4102	3871	3702	3578	3543	3619
-45	61.4	81.1	153	314	882	2109	3334	4141	4565	4653	4537	4320	4072	3842	3627	3473	3369	3346	3427
-40	57.4	65.4	113	226	612	1784	3097	3889	4295	4420	4267	4042	3813	3589	3368	3203	3091	3043	3076
-35	57.5	66.7	123	247	790	2028	3221	3865	4147	4171	3981	3740	3495	3263	3049	2892	2791	2748	2775
-30	61.5	98.7	217	627	1869	3081	3710	3918	3872	3658	3392	3126	2868	2646	2477	2368	2314	2308	2361
-25	61.9	102	226	712	1995	3128	3670	3798	3692	3455	3185	2911	2655	2448	2300	2204	2156	2148	2190
-20	59.5	69.6	150	324	1339	2664	3429	3645	3559	3314	3040	2759	2479	2255	2099	1999	1939	1910	1914
-15	58.5	68.3	153	358	1432	2714	3395	3565	3441	3185	2913	2639	2377	2169	2028	1943	1894	1873	1877
-10	58.4	107	250	1013	2361	3186	3451	3355	3103	2830	2563	2313	2107	1962	1879	1836	1819	1816	1832
-5	55.5	105	247	1033	2382	3178	3413	3301	3047	2780	2517	2270	2074	1939	1863	1825	1814	1813	1828
0	51.0	58.4	152	431	1634	2819	3326	3374	3174	2911	2652	2395	2168	2002	1902	1847	1828	1821	1831
5	48.3	54.6	147	412	1600	2802	3330	3396	3201	2938	2676	2415	2184	2015	1910	1854	1832	1825	1834
10	43.1	89.3	227	1013	2368	3206	3478	3387	3140	2870	2600	2343	2135	1994	1911	1868	1851	1850	1866
15	40.5	83.6	218	944	2298	3220	3547	3496	3274	3004	2731	2463	2238	2081	1985	1929	1903	1897	1915
20	38.5	41.4	120	300	1352	2690	3474	3683	3604	3370	3095	2811	2535	2313	2160	2062	2001	1972	1973
25	37.5	39.9	113	282	1241	2591	3471	3767	3754	3566	3306	3030	2762	2531	2358	2241	2169	2134	2137
30	34.0	65.5	183	628	1896	3138	3774	3974	3928	3724	3462	3205	2951	2731	2560	2449	2389	2373	2409
35	33.8	61.1	168	529	1654	2957	3744	4085	4149	3994	3762	3517	3272	3050	2871	2750	2680	2668	2723
40	35.3	35.7	82.1	196	625	1833	3160	3964	4382	4477	4333	4125	3891	3663	3448	3280	3160	3105	3135
45	35.3	35.4	75.2	179	519	1525	2860	3855	4422	4648	4578	4394	4159	3929	3705	3524	3387	3316	3339
50	33.5	46.5	110	247	663	1846	3239	4220	4792	4956	4873	4659	4415	4191	3962	3791	3658	3625	3705
55	33.5	43.4	94.6	207	513	1370	2649	3768	4516	4793	4808	4654	4402	4153	3915	3734	3604	3552	3615
60	34.9	34.0	47.2	96.1	195	375	1026	2284	3577	4325	4649	4710	4552	4268	3989	3760	3593	3475	3447
65	35.1	34.1	43.5	80.7	158	292	722	1560	2597	3371	3842	3993	3876	3634	3376	3166	3007	2904	2867
70	34.2	35.4	46.8	80.9	138	223	359	809	1647	2394	2853	2907	2762	2552	2338	2176	2076	2001	2010
75	34.9	35.6	42.9	64.8	103	159	250	528	1034	1488	1787	1831	1745	1621	1493	1387	1323	1280	1285
80	36.6	35.8	36.3	38.1	43.2	54.8	72.0	96.4	109	121	141	208	218	221	227	221	196	195	198
85	37.6	37.3	37.7	38.9	42.1	49.2	59.6	74.3	82.1	89.0	101	141	147	148	152	148	133	132	134
90	39.4	39.7	39.9	40.2	40.7	41.0	41.2	41.3	41.2	40.9	40.7	40.2	39.7	39.2	38.7	38.3	38.1	38.1	38.0

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2023-10-26

V(B) Range:-90 - 90DEG

V(B) Interval: 2.0DEG

Test System:EVERFINE GO-2000 SYSTEM V2.0.353

Humidity:65.0%

Test Distance:7.370m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.4664A P:101.4W PF:0.9841 Freq:49.99Hz Lamp Flux:15518x1 lm																		
NAME: LUX-AL-100-TypeV-VSM-C14680									TYPE:LED					WEIGHT:				
SPEC.:									DIM.: 0.3*0.25*0.1					SERIAL No.:				
MFR.:									SUR.:0.1*0.2					Shielding Angle:VSM				

Table--2

UNIT: cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	82.1	83.4	84.8	86.0	87.1	87.8	88.2	88.0	86.9	85.0	83.4	82.3	81.7	82.2	81.8	80.7	78.2	75.0	
-85	129	133	141	143	144	141	136	117	109	104	98.7	92.5	88.0	85.4	83.5	81.6	79.0	75.9	
-80	198	201	215	227	229	224	217	197	147	137	129	116	103	94.5	88.3	84.6	82.0	78.7	
-75	833	874	934	1002	1082	1136	1139	1037	796	501	264	187	142	119	102	89.7	83.6	79.5	
-70	1844	1955	2103	2281	2458	2532	2423	2012	1336	651	343	229	172	134	106	89.2	82.4	79.2	
-65	2528	2678	2863	3083	3303	3428	3363	3017	2408	1637	937	434	245	164	121	94.1	82.9	78.8	
-60	3459	3639	3848	4113	4403	4662	4811	4699	4354	3714	2636	1332	520	284	177	124	92.0	80.7	
-55	3547	3740	3980	4259	4558	4809	4970	4920	4648	4095	3124	1908	866	379	205	136	94.9	79.8	
-50	3795	4055	4357	4669	4946	5144	5258	5179	4880	4215	3238	1939	762	338	183	117	83.3	74.8	
-45	3599	3858	4173	4502	4807	5030	5162	5126	4895	4336	3475	2312	1066	421	199	125	83.9	73.6	
-40	3194	3398	3692	4036	4396	4712	4936	5049	5015	4796	4275	3476	2401	1031	384	188	110	76.9	
-35	2875	3054	3322	3667	4066	4440	4712	4861	4875	4707	4272	3577	2583	1234	441	197	113	76.7	
-30	2473	2661	2959	3382	3856	4257	4514	4648	4636	4413	3978	3252	2117	827	261	152	85.8	72.0	
-25	2279	2432	2676	3037	3497	3959	4286	4470	4509	4350	3981	3328	2272	951	292	158	86.1	72.1	
-20	1950	2023	2145	2343	2670	3184	3706	4069	4266	4316	4173	3810	3116	1999	714	225	126	76.4	
-15	1906	1967	2069	2241	2531	2995	3524	3912	4137	4212	4104	3778	3117	2048	748	225	125	74.4	
-10	1863	1922	2025	2216	2534	3033	3528	3854	4029	4044	3874	3408	2585	1244	371	164	81.3	69.1	
-5	1854	1905	1995	2167	2462	2931	3435	3777	3964	3995	3850	3419	2625	1303	385	162	78.7	66.7	
0	1847	1877	1935	2048	2255	2602	3116	3563	3840	3967	3941	3712	3148	2182	832	216	115	64.3	
5	1850	1882	1942	2057	2269	2624	3146	3597	3871	3992	3961	3727	3154	2187	831	221	111	61.4	
10	1896	1953	2057	2248	2573	3083	3590	3906	4069	4074	3897	3423	2587	1240	351	144	65.2	56.5	
15	1952	2024	2150	2373	2751	3288	3763	4052	4188	4160	3940	3434	2552	1189	339	140	63.1	54.7	
20	2002	2068	2183	2382	2713	3249	3790	4143	4327	4359	4200	3823	3122	1989	681	190	96.1	52.0	
25	2177	2268	2426	2686	3086	3601	4057	4348	4488	4463	4239	3788	3015	1802	606	183	92.1	51.6	
30	2506	2686	2983	3433	3954	4344	4591	4718	4689	4450	3997	3252	2115	801	224	119	57.0	51.7	
35	2851	3067	3388	3808	4253	4584	4788	4870	4795	4486	3934	3100	1871	688	210	113	56.6	52.1	
40	3250	3465	3774	4146	4509	4808	5013	5108	5060	4828	4291	3483	2398	1011	355	154	78.0	51.7	
45	3457	3673	3975	4319	4662	4936	5126	5187	5082	4762	4114	3191	1981	806	300	141	73.5	51.5	
50	3887	4153	4457	4771	5043	5242	5322	5216	4889	4208	3220	1906	741	312	151	84.1	53.4	52.1	
55	3781	4025	4307	4608	4886	5087	5121	4945	4532	3758	2644	1428	579	261	135	77.2	52.0	51.0	
60	3522	3708	3923	4191	4481	4747	4878	4733	4352	3688	2597	1284	500	263	149	90.0	57.1	48.6	
65	2927	3085	3274	3509	3767	3982	4055	3860	3390	2673	1767	894	377	211	125	78.2	53.4	47.1	
70	2107	2231	2419	2609	2796	2848	2702	2226	1461	718	375	229	154	105	70.1	51.3	45.3	45.6	
75	1344	1422	1544	1660	1769	1797	1702	1390	922	473	262	167	117	83.6	59.9	47.5	43.6	44.0	
80	198	200	218	236	235	227	218	182	121	109	102	84.7	69.1	57.5	48.1	43.3	41.3	41.1	
85	134	136	146	157	157	152	146	125	88.5	81.2	76.9	66.2	56.7	49.5	43.8	40.9	39.8	39.8	
90	38.2	38.4	38.7	39.0	39.4	39.5	39.5	39.4	39.3	38.9	38.5	38.2	37.7	37.4	37.5	37.5	37.6	38.0	

H(θ) Range:-90 - 90DEG

H(θ) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2023-10-26

V(B) Range:-90 - 90DEG

V(B) Interval: 2.0DEG

Test System:EVERFINE GO-2000 SYSTEM V2.0.353

Humidity:65.0%

Test Distance:7.370m [K=1.0000]

Remarks: