

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	342.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	160.4V x 160.6H
	At 50% of Imax	151.5V x 147.2H
	At 90% of Imax	142.9V x 141.9H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	986.8 lumens per klm.
	To 50% of Imax	748.2 lumens per klm.
	To 90% of Imax	87.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

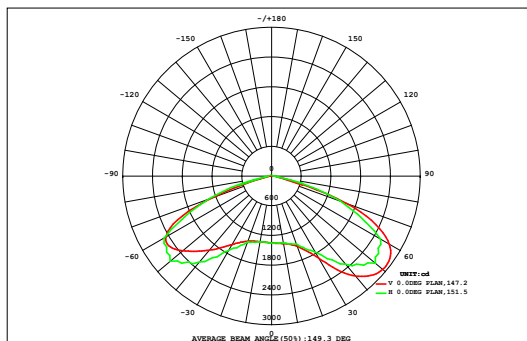
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:221.0V I:0.3261A P:71.05W PF:0.9859 Freq:49.99Hz Lamp Flux:11469.9x1 lm		
NAME: LUX-AL-70-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:161.44lm/W	
MODEL	LED	Imax (cd)	3931
NOMINAL POWER (W)	70	AVAILABILITY (%)	98.8
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	11333
NOMINAL FLUX (lm)	11469.9	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	11470
TEST VOLTAGE (V)	230	θ @50% (H,V)	147,151DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.07	0.24	0.49	0.90	1.34	2.20	2.58	2.58	2.52	2.54	2.72	2.61	2.08	1.20	0.83	0.47	0.24	0.08	25.7	0.00
90	0.07	0.33	1.20	4.92	17.1	27.2	28.0	25.7	24.0	24.3	26.7	28.7	25.9	14.3	3.88	1.18	0.39	0.09	254	236
80	0.08	0.68	4.41	23.5	53.2	69.3	68.6	64.0	61.4	63.5	69.4	74.5	68.6	44.5	16.0	2.88	0.61	0.10	685	678
70	0.09	1.03	9.79	41.8	73.9	87.1	87.0	82.9	80.2	83.1	90.6	96.7	93.4	73.7	38.6	8.59	1.10	0.14	950	945
60	0.13	2.13	20.3	53.2	74.4	80.5	79.6	76.8	76.0	81.1	90.8	98.2	95.3	78.6	47.4	14.0	1.47	0.14	970	967
50	0.13	2.69	23.2	51.1	65.4	68.0	65.7	62.6	61.7	64.8	73.2	84.6	87.5	77.1	53.8	22.7	2.71	0.19	867	865
40	0.19	4.87	28.5	48.8	55.5	54.5	50.9	48.7	48.6	50.5	56.6	69.2	77.8	71.5	52.2	23.8	2.95	0.18	745	743
30	0.17	4.55	27.3	45.4	49.8	47.7	44.0	42.6	42.6	43.4	45.8	53.5	66.1	65.9	52.1	27.9	4.68	0.23	664	662
20	0.24	6.40	28.8	42.7	44.9	42.7	40.2	40.1	40.9	41.7	43.3	49.6	61.4	62.3	49.8	26.2	4.02	0.21	626	624
10	0.21	5.03	27.3	42.9	45.7	43.5	40.6	40.0	40.6	41.3	42.5	47.6	58.9	61.4	50.3	28.3	5.24	0.27	621	620
0	0.27	5.97	28.8	44.7	47.9	45.7	42.4	41.3	41.7	42.9	45.9	54.6	66.7	65.5	50.9	25.7	3.73	0.24	655	653
-10	0.21	3.79	26.0	47.9	55.3	54.3	50.2	47.5	47.0	48.9	54.2	65.1	74.7	70.5	53.3	26.5	4.09	0.27	730	728
-20	0.22	3.62	25.4	51.1	63.5	65.1	62.5	59.8	59.7	63.8	72.9	84.2	86.8	75.9	51.7	20.3	2.32	0.22	849	847
-30	0.17	1.75	17.1	49.9	72.7	79.8	78.8	75.5	74.1	78.0	86.8	94.5	93.5	79.3	50.5	17.0	2.01	0.23	952	949
-40	0.16	1.37	11.7	44.1	73.6	85.0	84.2	80.4	78.4	82.3	90.3	96.2	92.3	72.0	36.3	7.49	1.12	0.19	937	933
-50	0.14	0.73	3.55	20.6	50.3	67.4	67.8	62.8	59.6	60.8	65.8	70.8	67.7	47.6	19.3	3.66	0.87	0.18	670	663
-60	0.14	0.54	1.46	5.20	17.5	26.3	26.4	24.0	22.6	23.3	25.5	27.5	24.5	12.7	3.18	1.29	0.58	0.16	243	221
-70	0.14	0.43	0.77	1.13	1.42	2.04	2.38	2.50	2.51	2.58	2.69	2.58	2.21	1.57	1.30	0.87	0.49	0.16	27.8	0.00
-80	0.14	0.43	0.77	1.13	1.42	2.04	2.38	2.50	2.51	2.58	2.69	2.58	2.21	1.57	1.30	0.87	0.49	0.16	27.8	0.00
-90	0.14	0.43	0.77	1.13	1.42	2.04	2.38	2.50	2.51	2.58	2.69	2.58	2.21	1.57	1.30	0.87	0.49	0.16	27.8	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.85	46.1	286	620	864	948	922	880	864	899	985	1101	1146	976	631	259	38.6	3.29	11470	---
Φ a	0.00	34.3	276	612	859	943	915	872	857	891	978	1094	1140	970	622	247	25.0	0.00	---	11333

one-half-peak spread: U:25.6,D:26.0 , L:15.7,R:22.5

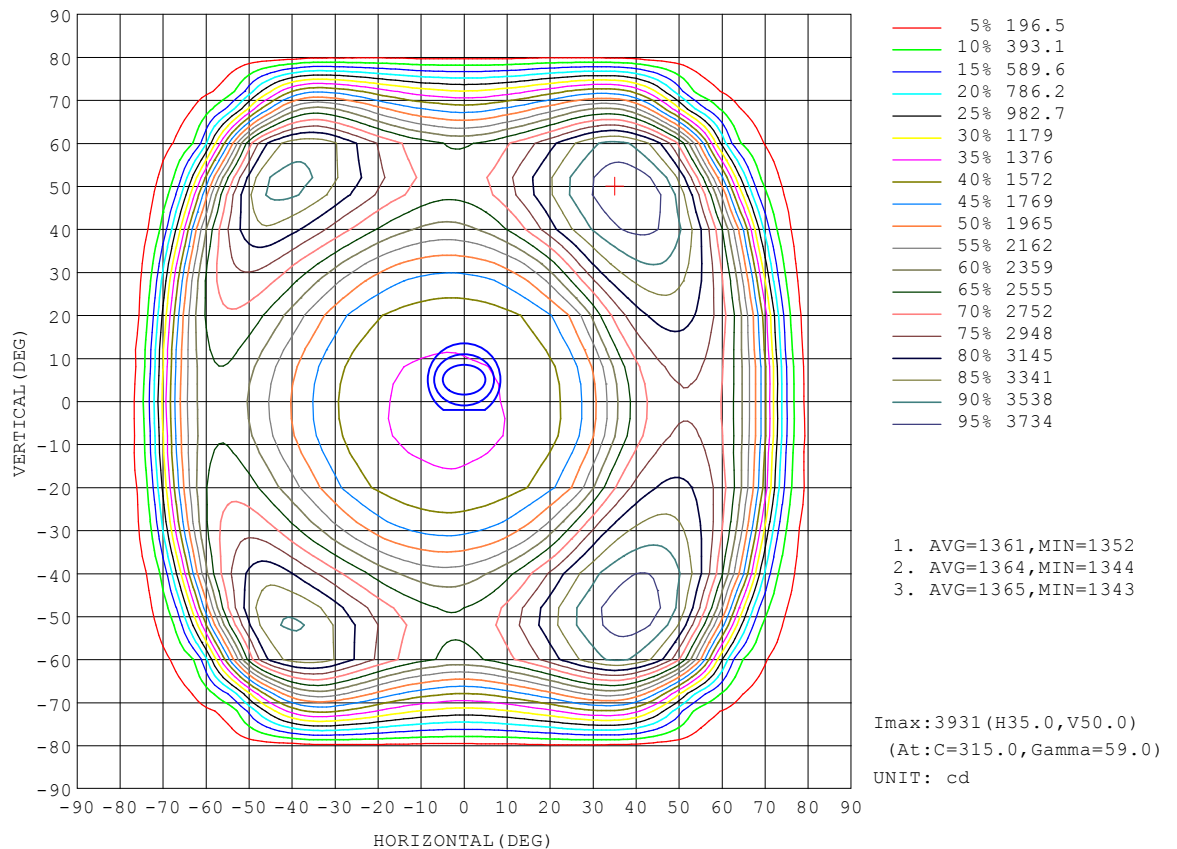
NEMA Beam Type: Type 7

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:221.0V I:0.3261A P:71.05W PF:0.9859 Freq:49.99Hz Lamp Flux:11469.9x1 lm		
NAME: LUX-AL-70-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

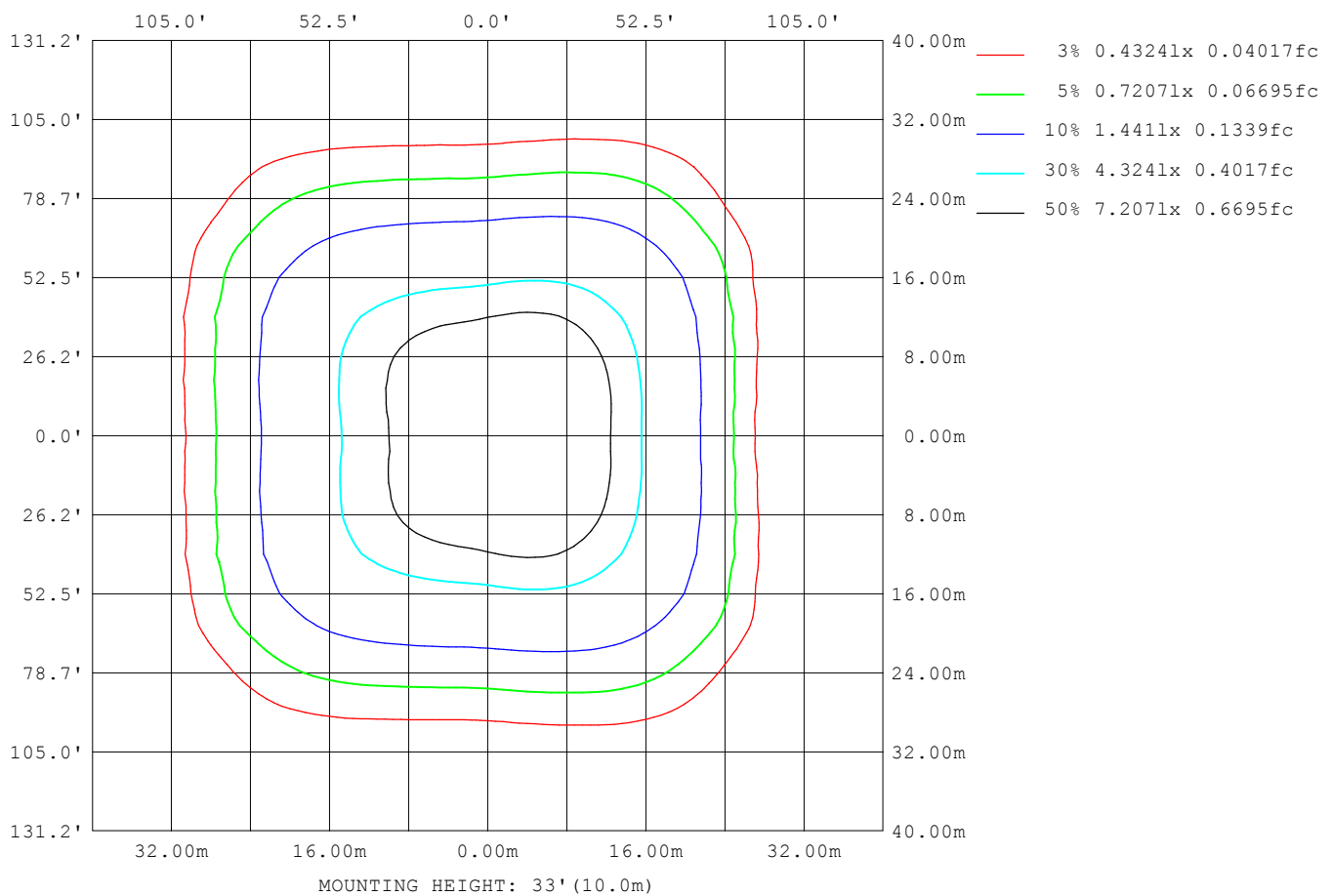


H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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

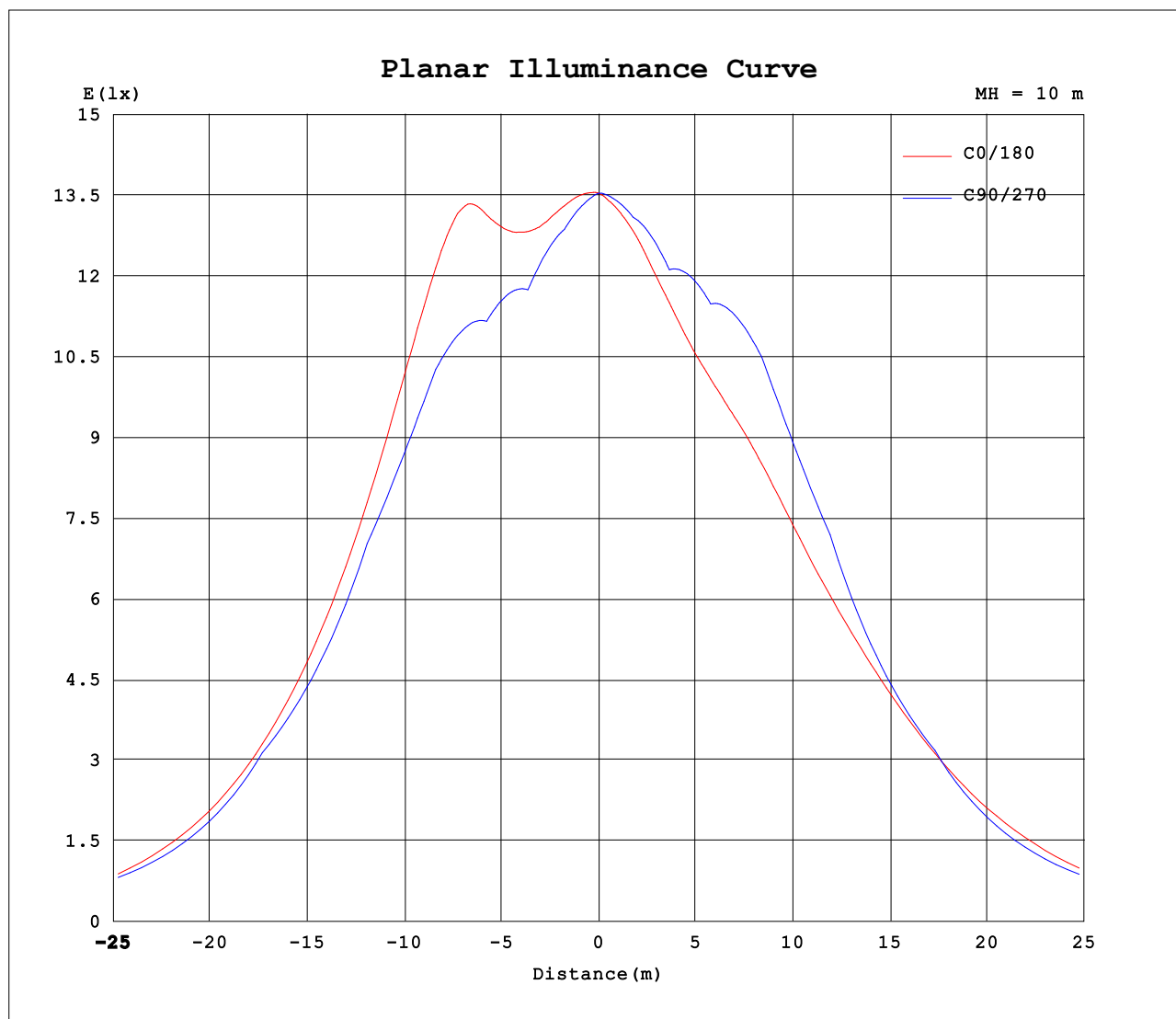
Test:U:221.0V I:0.3261A P:71.05W PF:0.9859 Freq:49.99Hz Lamp Flux:11469.9x1 lm		
NAME: LUX-AL-70-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:VSM



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

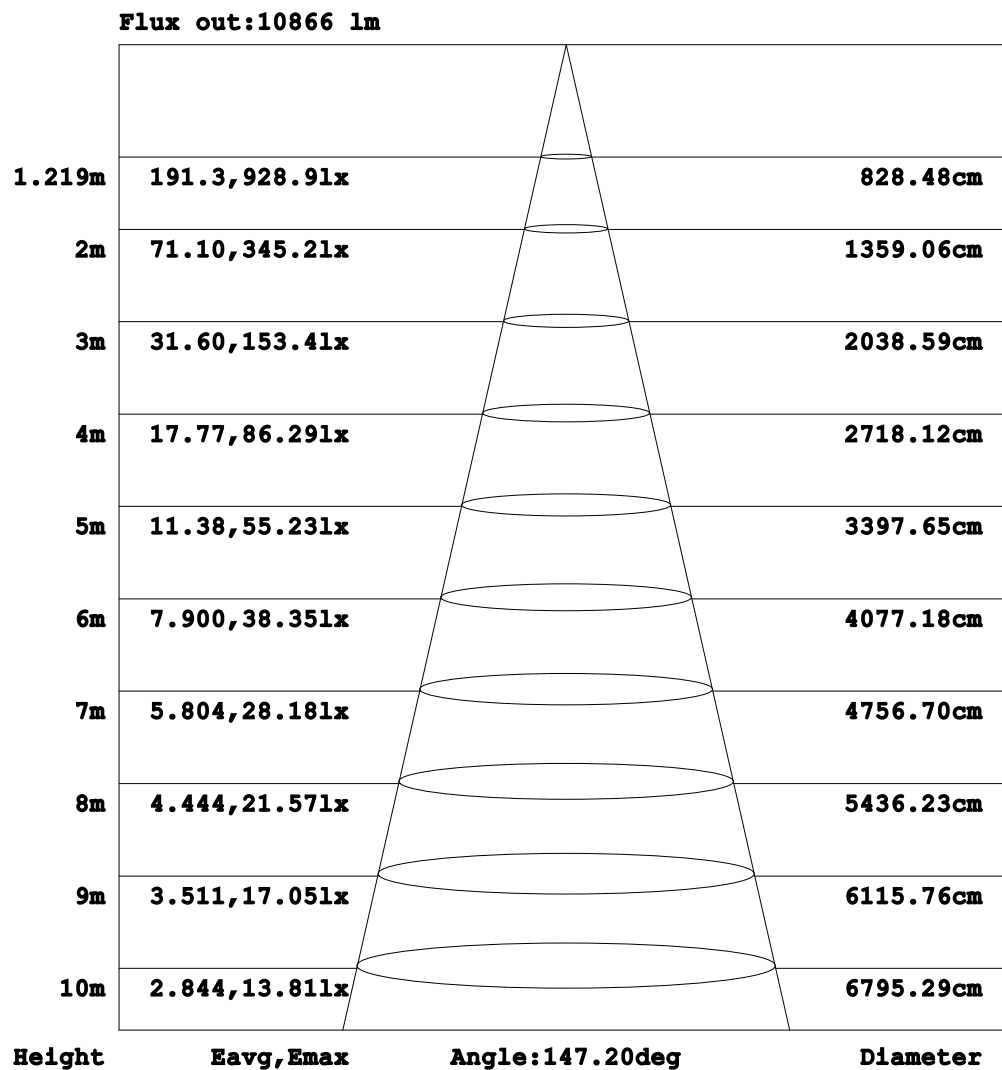


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:

AAI Figure

Test:U:221.0V I:0.3261A P:71.05W PF:0.9859 Freq:49.99Hz Lamp Flux:11469.9x1 lm		
NAME: LUX-AL-70-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



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:221.0V I:0.3261A P:71.05W PF:0.9859 Freq:49.99Hz Lamp Flux:11469.9x1 lm		
NAME: LUX-AL-70-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	51.6	54.2	55.7	56.7	57.4	57.7	58.1	58.6	59.3	59.5	59.4	59.2	58.9	58.6	58.4	58.4	58.7	59.2	60.1
-85	51.1	53.4	54.9	56.3	58.6	61.9	67.3	72.7	75.4	78.6	92.0	96.8	97.5	98.5	97.7	95.1	92.2	93.5	94.9
-80	50.4	51.0	52.6	54.5	57.1	63.3	72.6	86.5	95.9	103	113	151	155	157	158	155	145	143	146
-75	50.3	50.7	53.0	58.8	71.3	91.6	120	173	362	593	781	878	870	821	760	702	656	630	618
-70	49.8	52.1	58.9	80.1	116	166	243	541	1114	1629	1922	1976	1873	1729	1571	1458	1381	1331	1338
-65	49.3	52.6	65.6	98.6	161	292	668	1232	1878	2315	2534	2545	2405	2234	2064	1938	1854	1800	1816
-60	48.4	49.5	59.1	92.2	160	289	755	1696	2623	3192	3412	3447	3330	3120	2914	2741	2615	2527	2507
-55	46.9	48.9	63.7	108	208	484	1159	2092	2874	3334	3486	3468	3326	3125	2931	2767	2646	2565	2555
-50	45.6	57.4	103	200	484	1351	2350	3067	3462	3598	3555	3398	3203	3029	2859	2734	2642	2616	2674
-45	45.1	60.0	114	239	672	1600	2490	3073	3382	3441	3351	3189	3004	2833	2675	2561	2484	2468	2528
-40	42.2	48.1	84.4	169	466	1354	2316	2885	3177	3264	3146	2977	2807	2641	2478	2355	2273	2239	2264
-35	42.4	49.2	91.6	190	602	1535	2402	2865	3067	3078	2933	2752	2571	2399	2241	2125	2051	2020	2040
-30	45.5	73.5	161	477	1414	2288	2750	2897	2856	2692	2494	2297	2105	1941	1817	1738	1698	1694	1733
-25	45.8	75.6	168	541	1509	2324	2719	2807	2722	2542	2341	2139	1949	1798	1688	1619	1584	1578	1609
-20	44.0	51.7	112	250	1028	1996	2544	2695	2625	2440	2235	2028	1821	1657	1543	1470	1428	1407	1410
-15	43.1	50.6	115	282	1093	2029	2518	2635	2538	2346	2143	1941	1747	1595	1492	1430	1396	1380	1383
-10	43.2	80.3	185	770	1782	2360	2553	2476	2288	2084	1887	1702	1550	1445	1385	1354	1341	1339	1351
-5	41.1	78.0	184	786	1793	2356	2524	2436	2246	2048	1853	1670	1526	1428	1373	1346	1338	1337	1348
0	37.6	43.3	114	344	1235	2096	2465	2494	2343	2145	1953	1762	1594	1473	1401	1361	1347	1343	1350
5	35.6	40.5	110	325	1211	2085	2468	2510	2362	2166	1971	1777	1607	1483	1407	1366	1350	1345	1351
10	31.8	66.9	170	768	1785	2378	2574	2501	2316	2115	1914	1724	1571	1468	1408	1376	1364	1363	1375
15	29.9	62.6	163	714	1732	2390	2625	2583	2416	2215	2012	1813	1647	1532	1462	1421	1402	1398	1411
20	28.3	30.7	89.3	231	1031	2014	2577	2726	2663	2487	2282	2072	1867	1703	1590	1518	1474	1454	1455
25	27.5	29.6	84.5	218	944	1943	2575	2788	2776	2634	2439	2235	2036	1866	1738	1651	1599	1574	1577
30	25.1	49.0	136	474	1430	2327	2798	2942	2905	2753	2556	2366	2178	2015	1888	1806	1762	1752	1779
35	24.9	45.7	125	400	1250	2203	2777	3025	3070	2953	2779	2598	2416	2251	2119	2030	1979	1971	2012
40	26.0	26.5	61.7	147	474	1386	2352	2940	3246	3312	3203	3048	2875	2706	2546	2422	2334	2294	2318
45	25.9	26.2	56.4	134	392	1153	2136	2860	3276	3439	3384	3246	3071	2901	2734	2602	2500	2448	2467
50	24.7	34.7	82.3	183	500	1391	2411	3128	3548	3665	3600	3441	3258	3091	2923	2797	2698	2675	2735
55	24.7	32.3	70.8	154	386	1034	1977	2802	3345	3544	3552	3436	3246	3061	2887	2752	2656	2619	2667
60	25.7	25.1	35.2	72.5	146	280	771	1719	2660	3200	3436	3478	3354	3144	2937	2769	2646	2558	2539
65	25.8	25.1	32.4	60.7	118	218	541	1173	1934	2499	2841	2946	2854	2674	2483	2328	2210	2135	2107
70	25.2	26.2	34.8	60.4	103	165	267	607	1230	1783	2103	2138	2029	1872	1714	1593	1519	1465	1471
75	25.7	26.3	31.9	48.3	76.8	118	186	396	772	1108	1317	1346	1281	1189	1094	1015	968	936	940
80	26.9	26.4	26.8	28.2	32.2	40.7	53.5	71.4	80.4	88.8	104	152	159	161	166	160	143	142	144
85	27.7	27.5	27.8	28.7	31.2	36.5	44.2	55.0	60.4	65.4	74.2	103	107	109	111	108	96.8	96.3	97.5
90	28.9	29.2	29.3	29.6	29.9	30.2	30.4	30.4	30.4	30.2	30.0	29.7	29.3	28.9	28.6	28.3	28.2	28.1	28.1

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:221.0V I:0.3261A P:71.05W PF:0.9859 Freq:49.99Hz Lamp Flux:11469.9x1 lm		
NAME: LUX-AL-70-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	61.2	62.1	63.1	64.0	64.7	65.3	65.6	65.3	64.5	63.0	61.9	61.1	60.8	60.7	60.5	59.8	57.9	55.5	
-85	96.0	98.8	105	107	107	105	101	87.0	80.0	76.5	72.8	68.4	65.2	62.9	61.6	60.4	58.5	56.2	
-80	147	149	161	170	171	167	161	147	108	101	94.9	85.1	76.1	69.4	64.9	62.4	60.8	58.4	
-75	629	659	704	754	813	854	856	781	601	379	196	137	104	87.3	74.5	66.0	61.8	59.0	
-70	1393	1476	1585	1718	1851	1906	1826	1520	1015	491	253	168	126	98.3	77.3	65.6	60.9	58.7	
-65	1891	2002	2138	2302	2467	2560	2513	2257	1804	1222	698	321	180	120	88.1	69.1	61.3	58.4	
-60	2566	2698	2854	3050	3266	3460	3570	3490	3235	2764	1969	994	384	208	130	90.3	67.7	59.8	
-55	2627	2768	2947	3154	3378	3564	3684	3650	3450	3042	2326	1419	644	278	150	99.3	69.7	59.1	
-50	2803	2995	3221	3453	3659	3808	3894	3838	3618	3126	2402	1441	563	247	134	85.6	61.5	55.5	
-45	2655	2847	3081	3326	3553	3721	3820	3796	3626	3213	2576	1715	788	308	145	91.5	61.8	54.6	
-40	2352	2502	2719	2974	3244	3481	3648	3734	3709	3551	3166	2575	1780	761	281	137	80.2	56.9	
-35	2115	2247	2444	2700	2998	3277	3481	3593	3604	3483	3162	2648	1913	912	322	143	82.5	56.8	
-30	1816	1955	2175	2489	2841	3140	3333	3434	3427	3264	2943	2406	1568	601	189	111	63.0	53.5	
-25	1675	1788	1968	2235	2577	2919	3165	3301	3332	3216	2944	2461	1680	693	217	115	63.2	53.6	
-20	1436	1489	1578	1725	1965	2346	2734	3003	3150	3188	3083	2816	2299	1474	521	164	91.2	56.4	
-15	1405	1449	1523	1650	1864	2208	2600	2888	3055	3111	3032	2792	2300	1509	543	163	90.1	54.9	
-10	1374	1417	1492	1633	1868	2239	2605	2847	2977	2987	2862	2515	1905	921	267	119	59.4	51.2	
-5	1367	1404	1470	1598	1815	2164	2536	2790	2928	2951	2844	2523	1932	953	280	118	57.4	49.4	
0	1362	1384	1426	1509	1662	1920	2301	2631	2835	2929	2910	2740	2320	1604	598	156	82.9	47.3	
5	1364	1387	1431	1515	1673	1936	2324	2656	2858	2947	2925	2750	2323	1608	599	154	80.5	45.1	
10	1398	1439	1515	1657	1899	2278	2651	2883	3003	3006	2875	2522	1902	912	252	104	47.4	41.9	
15	1439	1491	1585	1751	2033	2431	2780	2992	3092	3069	2906	2530	1876	870	237	101	45.9	40.6	
20	1475	1524	1610	1758	2005	2405	2804	3062	3196	3218	3099	2818	2293	1457	492	138	69.3	38.2	
25	1606	1673	1792	1986	2283	2665	3001	3213	3315	3295	3127	2791	2214	1319	437	133	66.4	38.0	
30	1852	1986	2209	2543	2927	3211	3394	3486	3463	3284	2945	2391	1546	573	160	85.8	41.5	38.4	
35	2108	2269	2508	2819	3146	3389	3539	3598	3540	3309	2897	2276	1365	493	150	81.6	41.3	38.7	
40	2405	2565	2793	3067	3333	3555	3705	3774	3737	3563	3160	2559	1751	731	254	111	56.2	38.2	
45	2555	2715	2939	3192	3445	3647	3787	3831	3752	3512	3027	2339	1445	582	215	102	53.1	38.0	
50	2870	3067	3291	3523	3724	3872	3931	3849	3606	3095	2361	1383	533	224	109	60.7	39.1	38.7	
55	2789	2970	3178	3400	3606	3754	3778	3645	3337	2755	1931	1032	417	188	97.5	55.7	38.1	37.8	
60	2595	2733	2891	3089	3303	3498	3593	3483	3198	2701	1890	922	358	188	107	64.7	41.4	35.8	
65	2152	2268	2408	2580	2770	2927	2979	2831	2480	1950	1282	641	270	151	90.0	56.3	38.8	34.8	
70	1541	1630	1768	1907	2041	2077	1968	1614	1049	509	268	164	111	75.4	50.4	37.3	33.4	33.7	
75	982	1038	1127	1212	1291	1310	1238	1006	662	335	187	120	84.3	60.0	43.2	34.6	32.1	32.5	
80	143	145	158	170	169	162	156	127	86.6	78.1	72.8	60.2	49.3	41.2	34.8	31.6	30.4	30.3	
85	97.3	98.5	106	113	113	109	105	87.7	63.6	58.4	55.1	47.5	40.8	35.8	31.9	30.0	29.3	29.4	
90	28.2	28.4	28.6	28.8	29.1	29.2	29.2	29.1	29.0	28.7	28.5	28.2	27.9	27.6	27.7	27.7	27.8	28.1	

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: