

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	483.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	150.0V x 149.5H
	At 50% of Imax	67.3V x 125.3H
	At 90% of Imax	35.9V x 99.4H

Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	971.9 lumens per klm.
	To 50% of Imax	647.8 lumens per klm.
	To 90% of Imax	66.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

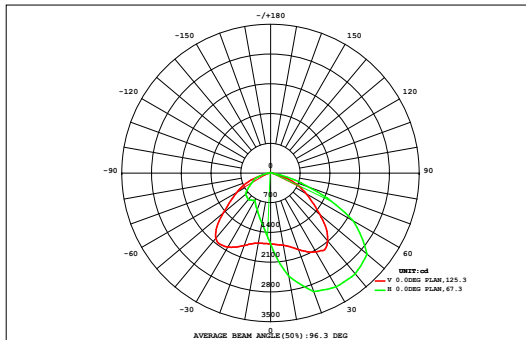
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-27

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:220.9V I:0.2347A P:51.30W PF:0.9897 Freq:49.99Hz Lamp Flux:7668.01x1 lm		
NAME: LUX-AL-50-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4



DATA OF LAMP		Eff:149.47lm/W	
MODEL	LED	Imax(cd)	3705
NOMINAL POWER(W)	50	AVAILABILITY(%)	97.3
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	7462
NOMINAL FLUX(lm)	7668.01	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	7668
TEST VOLTAGE(V)	230	θ @50% (H,V)	125,67DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.03	0.08	0.15	0.29	0.61	1.55	2.36	1.44	1.18	1.23	1.61	2.65	1.63	0.66	0.35	0.19	0.11	0.04	16.2	0.00
90	0.03	0.08	0.15	0.29	0.61	1.55	2.36	1.44	1.18	1.23	1.61	2.65	1.63	0.66	0.35	0.19	0.11	0.04	16.2	0.00
80	0.03	0.11	0.49	3.84	13.0	25.2	25.3	17.8	14.9	15.5	20.2	28.4	25.3	12.9	3.91	0.57	0.17	0.05	208	191
70	0.03	0.20	2.09	13.3	38.0	65.5	64.7	52.6	47.9	49.2	57.6	70.8	66.0	36.8	13.4	2.37	0.29	0.06	581	576
60	0.04	0.36	5.22	22.8	55.2	84.4	86.4	79.6	78.7	79.9	85.1	93.4	86.8	53.9	22.6	5.56	0.47	0.07	840	837
50	0.05	0.59	8.19	26.3	57.0	82.1	88.8	87.6	91.2	91.9	92.9	96.8	87.9	58.7	26.7	8.49	0.78	0.08	906	904
40	0.05	1.00	10.1	26.5	51.5	74.2	85.1	88.1	93.1	93.4	91.9	92.2	80.8	55.0	27.9	10.5	1.20	0.09	883	880
30	0.07	1.44	11.0	26.5	49.2	71.3	83.2	87.3	91.3	91.8	90.5	89.6	77.1	52.0	27.9	11.4	1.62	0.10	863	861
20	0.08	1.72	10.9	25.4	47.8	69.6	78.4	79.6	81.8	82.8	83.2	84.2	74.4	49.9	26.5	11.3	1.89	0.11	809	808
10	0.10	1.82	10.0	22.3	42.5	59.6	63.3	61.9	62.4	63.3	64.6	67.1	63.0	44.1	23.4	10.4	1.97	0.12	662	660
0	0.12	1.73	8.80	18.6	33.7	43.4	44.6	42.8	42.4	43.0	44.5	47.2	46.2	35.0	19.6	9.15	1.85	0.14	483	481
-10	0.13	1.49	7.60	15.1	25.1	31.1	32.0	31.4	32.0	32.2	32.4	33.6	33.3	26.0	15.6	7.78	1.58	0.15	359	356
-20	0.13	1.16	6.05	11.5	17.8	22.1	23.1	23.6	25.0	25.1	24.2	24.6	23.9	18.5	11.8	6.14	1.27	0.14	266	262
-30	0.13	0.90	4.25	8.51	13.3	17.3	18.8	20.8	23.2	23.2	21.4	20.4	18.6	13.7	8.70	4.34	0.98	0.14	219	212
-40	0.12	0.70	2.76	6.41	10.9	15.0	17.3	21.1	24.0	24.0	21.7	18.8	15.8	11.1	6.57	2.91	0.78	0.13	200	187
-50	0.11	0.55	1.77	4.50	8.25	12.6	15.7	18.8	20.4	20.4	19.5	16.7	12.9	8.34	4.61	1.89	0.60	0.12	168	148
-60	0.11	0.41	1.08	2.64	5.19	8.87	12.5	14.0	14.3	14.4	14.7	12.9	8.98	5.24	2.74	1.19	0.45	0.11	120	90.9
-70	0.10	0.32	0.65	1.25	2.34	4.24	6.92	8.00	7.69	7.87	8.54	7.23	4.33	2.41	1.33	0.70	0.34	0.11	64.4	8.54
-80	0.09	0.28	0.44	0.62	0.84	1.19	2.07	2.58	2.22	2.33	2.76	2.27	1.32	0.94	0.67	0.46	0.29	0.10	21.5	0.00
-90	0.03	0.08	0.15	0.29	0.61	1.55	2.36	1.44	1.18	1.23	1.61	2.65	1.63	0.66	0.35	0.19	0.11	0.04	16.2	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	1.51	14.9	91.5	236	472	689	750	739	754	762	777	809	728	485	244	95.4	16.6	1.85	7668	---
Φ a	0.00	3.29	77.8	221	459	677	738	728	742	750	766	796	716	472	229	81.1	3.80	0.00	---	7462

one-half-peak spread: U:42.3,D:25.4 , L:26.5,R:28.2

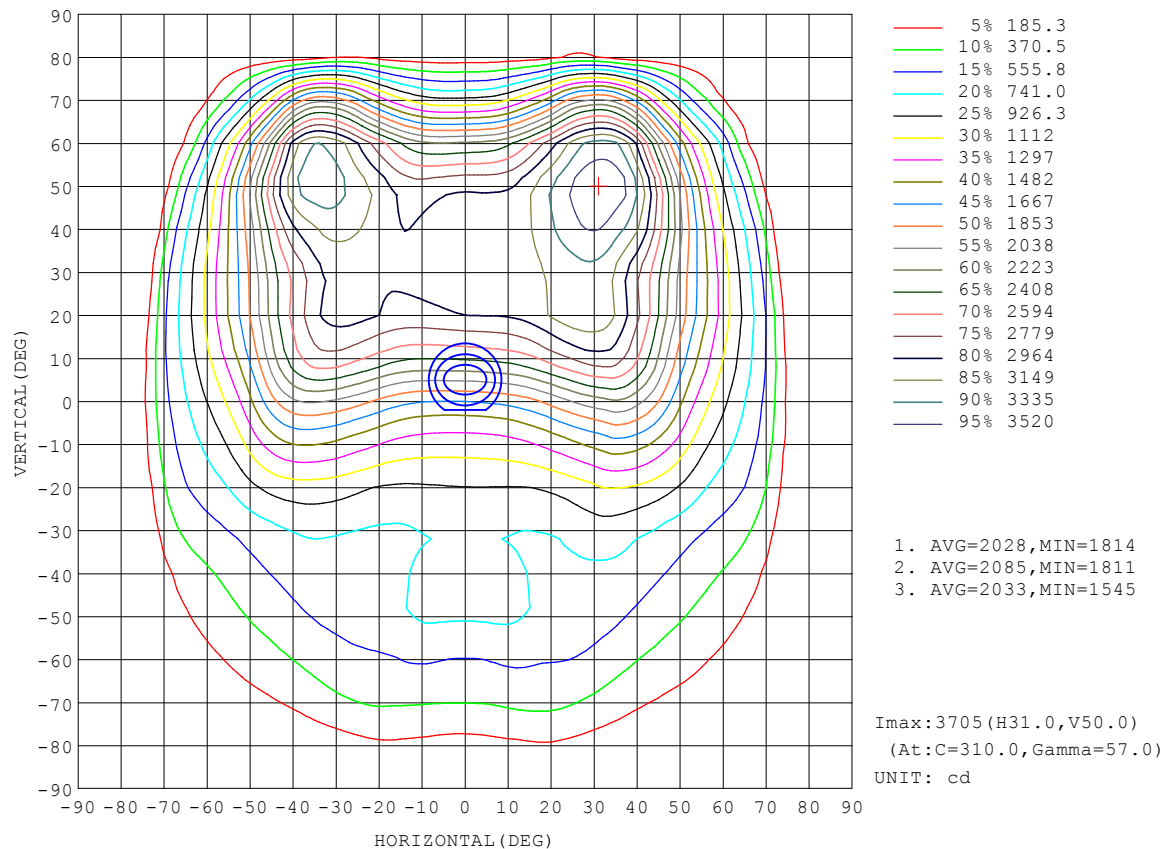
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-27

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:220.9V I:0.2347A P:51.30W PF:0.9897 Freq:49.99Hz Lamp Flux:7668.01x1 lm		
NAME: LUX-AL-50-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4

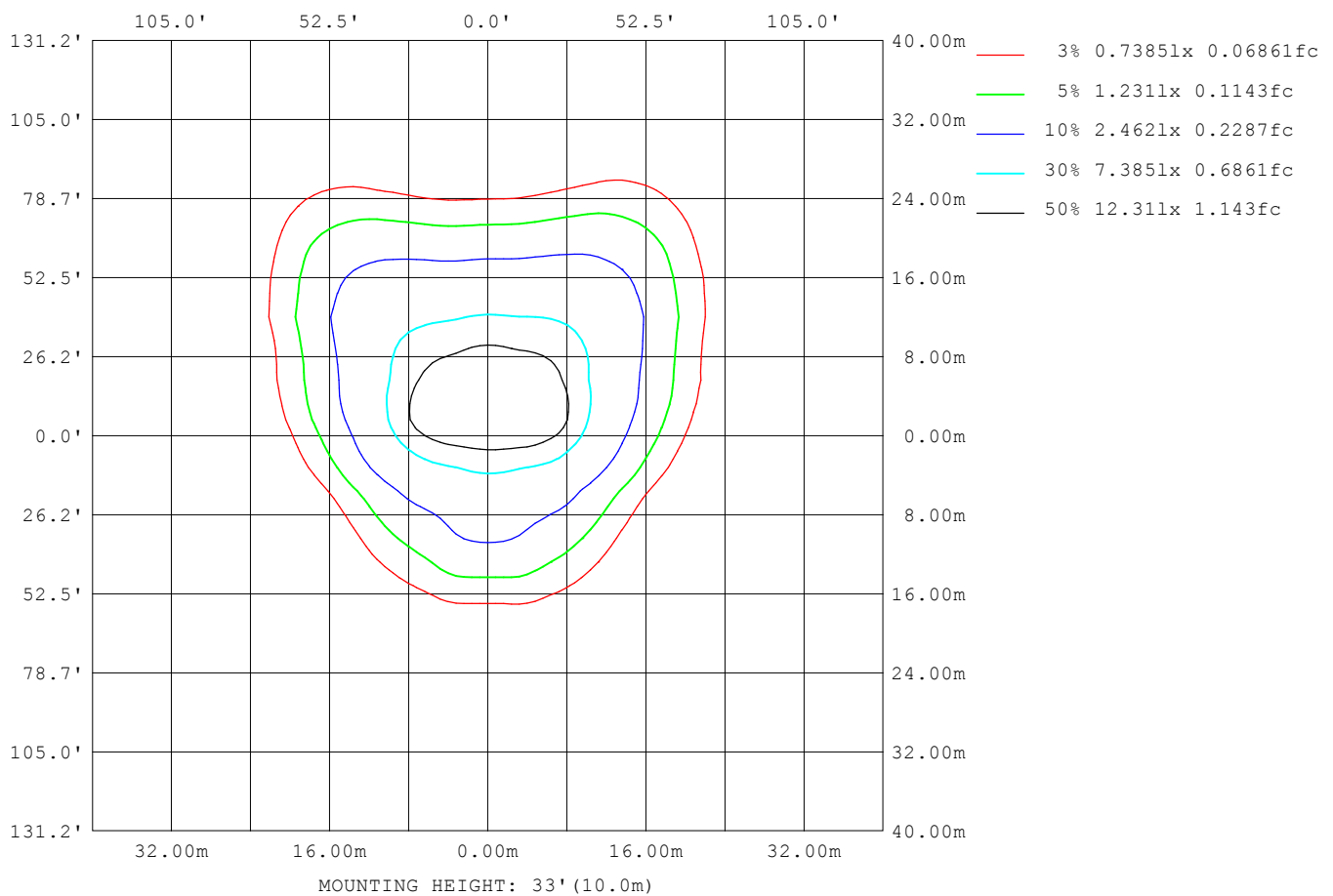


H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-27

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

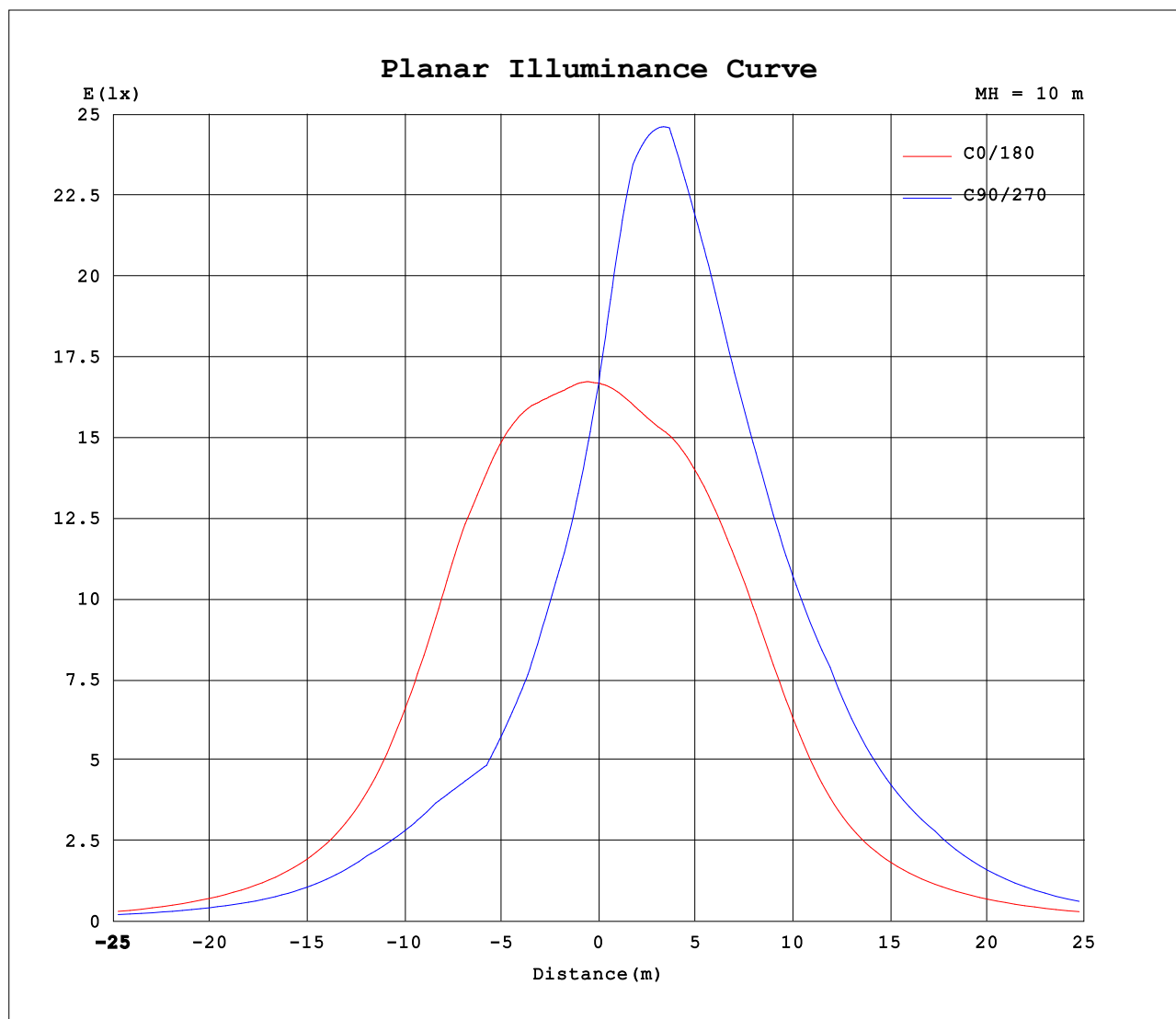
Test:U:220.9V I:0.2347A P:51.30W PF:0.9897 Freq:49.99Hz Lamp Flux:7668.01x1 lm		
NAME: LUX-AL-50-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4



H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-27

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

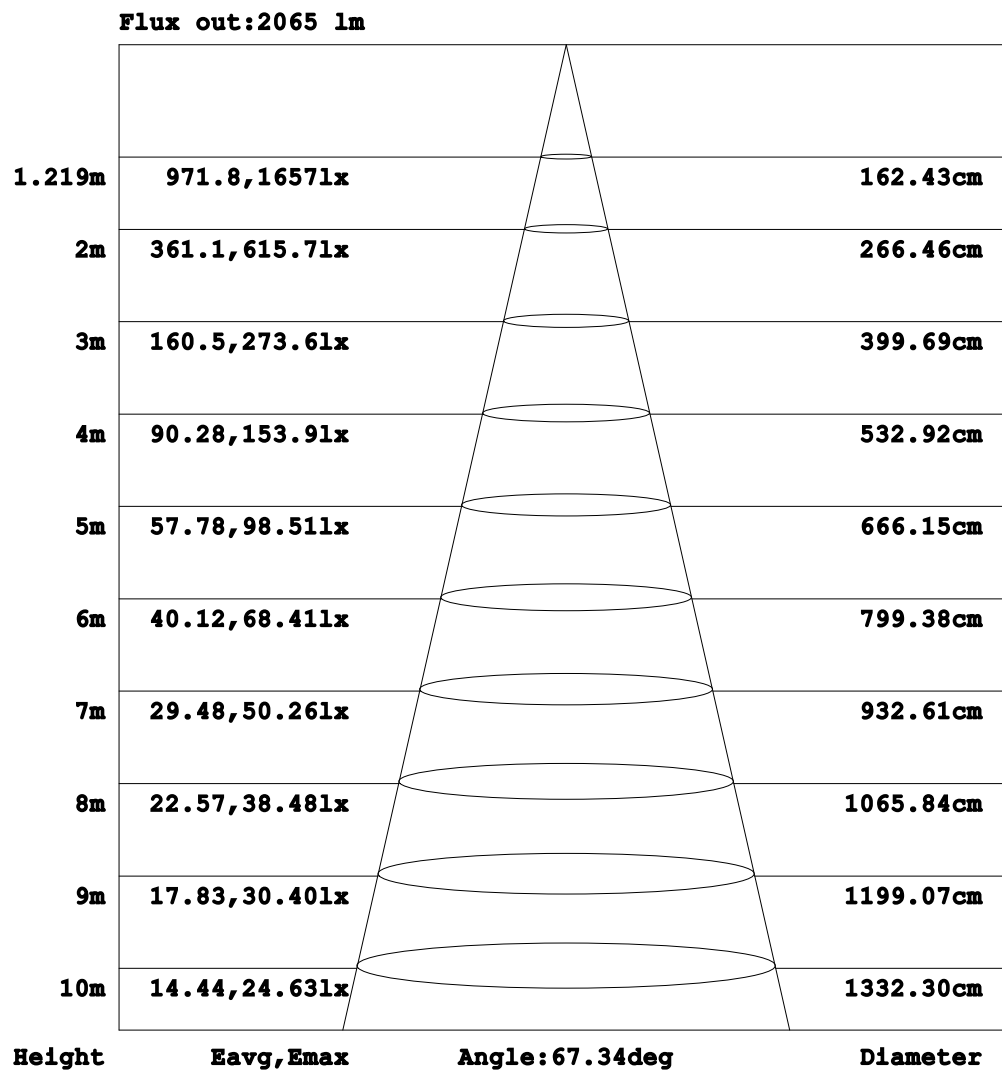


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-27

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:220.9V I:0.2347A P:51.30W PF:0.9897 Freq:49.99Hz Lamp Flux:7668.01x1 lm		
NAME: LUX-AL-50-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4



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: 2023-10-27

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:220.9V I:0.2347A P:51.30W PF:0.9897 Freq:49.99Hz Lamp Flux:7668.01x1 lm		
NAME: LUX-AL-50-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4

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	35.0	35.0	34.9	34.8	33.9	32.4	31.3	30.5	30.1	30.2	30.4	31.0	31.4	31.8	32.2	32.6	33.4	34.1	34.8
-85	35.5	35.5	35.6	35.7	35.1	34.4	34.4	35.1	36.5	38.7	41.5	46.3	55.2	68.9	80.0	79.1	74.7	67.4	65.2
-80	36.2	36.4	36.8	37.2	36.9	37.4	39.1	42.1	46.0	51.4	58.0	69.2	91.0	125	152	149	137	117	111
-75	36.8	37.3	38.2	40.0	42.6	47.4	55.3	64.8	79.1	97.3	118	148	186	226	250	247	237	224	221
-70	37.8	38.6	40.3	44.2	51.2	62.4	79.7	99.0	129	166	207	266	329	378	398	394	387	383	386
-65	38.1	39.3	42.2	49.4	61.3	77.5	106	139	179	224	273	336	398	439	454	459	462	454	451
-60	38.5	40.2	45.0	57.3	76.5	100	145	198	255	311	373	442	500	532	537	557	575	559	550
-55	37.7	40.3	47.6	64.7	89.1	125	182	244	307	367	429	493	538	562	580	623	655	646	639
-50	36.7	40.3	51.5	75.7	108	162	238	313	385	450	515	568	596	608	643	724	774	775	772
-45	35.9	40.3	54.1	82.4	123	204	280	355	427	494	555	600	616	621	649	720	773	788	791
-40	34.8	40.4	57.9	92.3	146	268	343	418	490	561	615	649	647	640	657	714	771	807	819
-35	34.6	41.0	61.3	100	182	322	401	472	543	610	662	694	687	674	678	711	752	779	790
-30	34.4	41.8	66.3	112	236	403	489	553	622	684	731	763	747	725	709	707	722	737	747
-25	34.3	41.6	67.6	119	282	459	552	630	725	801	849	870	851	819	792	784	795	808	817
-20	34.1	41.3	69.7	130	351	543	646	746	879	978	1026	1030	1006	960	917	899	904	915	923
-15	32.8	39.9	69.7	136	389	580	702	827	996	1136	1207	1211	1180	1122	1067	1033	1025	1027	1032
-10	30.8	37.7	69.8	146	448	636	786	950	1171	1373	1478	1483	1439	1366	1292	1234	1208	1196	1197
-5	28.8	35.2	67.4	147	468	667	841	1027	1282	1535	1676	1689	1639	1560	1474	1401	1361	1345	1348
0	25.5	31.4	63.9	150	501	723	929	1151	1448	1790	2006	2056	2010	1920	1816	1723	1677	1665	1669
5	23.3	28.6	60.2	146	514	758	988	1231	1548	1948	2239	2346	2313	2221	2111	2015	1978	1973	1979
10	20.0	24.7	55.6	142	535	810	1081	1368	1714	2153	2521	2712	2728	2646	2550	2468	2443	2444	2456
15	18.3	22.4	51.6	134	529	823	1112	1419	1773	2206	2568	2792	2855	2801	2716	2649	2632	2643	2659
20	15.6	18.9	45.7	122	520	841	1159	1496	1861	2287	2637	2912	3047	3033	2964	2919	2916	2941	2964
25	14.7	17.6	42.8	112	495	834	1160	1498	1868	2293	2627	2893	3026	3030	2979	2953	2969	2997	3015
30	13.4	15.7	38.4	98.5	457	823	1161	1501	1878	2302	2611	2864	2994	3025	3001	3003	3048	3080	3092
35	13.1	14.9	34.7	85.7	385	778	1122	1496	1911	2379	2737	2967	3081	3079	3026	2989	3030	3075	3094
40	12.6	13.8	29.2	66.7	277	712	1063	1488	1962	2495	2926	3122	3212	3160	3063	2968	3003	3068	3097
45	12.5	13.3	26.5	59.1	217	642	1015	1471	2010	2614	3084	3264	3303	3203	3079	2955	2958	3013	3045
50	12.3	12.6	22.6	47.8	127	536	942	1446	2081	2791	3322	3477	3440	3267	3102	2936	2891	2931	2967
55	12.2	12.3	20.0	40.6	98.4	405	810	1298	1893	2588	3204	3420	3363	3148	2931	2727	2639	2652	2680
60	12.1	11.7	16.0	29.8	55.4	210	613	1074	1612	2285	3029	3333	3248	2969	2673	2414	2260	2232	2249
65	12.1	11.5	14.4	24.7	44.2	145	430	805	1262	1839	2498	2808	2745	2477	2162	1906	1752	1712	1724
70	12.1	11.2	12.1	17.1	27.4	157	402	737	1170	1701	2019	1990	1739	1396	1143	989	931	936	
75	12.1	11.1	11.4	14.5	21.2	102	252	456	722	1049	1258	1265	1116	888	723	625	587	591	
80	12.2	10.9	10.3	10.5	11.7	14.5	19.3	26.6	34.2	50.0	71.0	117	176	181	127	92.6	77.7	71.7	73.6
85	12.4	11.2	10.4	10.1	10.6	12.0	14.8	19.0	23.4	32.8	45.4	73.3	108	112	79.1	58.5	49.7	46.1	47.3
90	12.6	11.5	10.5	9.62	8.88	8.30	7.87	7.54	7.31	7.16	7.06	7.02	7.02	7.09	7.21	7.35	7.52	7.68	7.84

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2023-10-27

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:220.9V I:0.2347A P:51.30W PF:0.9897 Freq:49.99Hz Lamp Flux:7668.01x1 lm		
NAME: LUX-AL-50-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4

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	35.4	35.5	35.5	35.2	34.8	34.4	34.0	33.6	33.2	32.6	32.2	32.3	32.2	33.7	34.7	35.7	36.7	36.9	
-85	70.9	78.4	85.0	86.7	75.7	61.0	50.7	45.8	42.9	40.0	38.0	36.4	35.2	35.7	36.2	36.9	37.7	37.7	
-80	124	143	159	164	137	101	75.7	64.1	57.4	51.0	46.5	42.6	39.6	38.6	38.4	38.6	39.1	38.8	
-75	229	249	264	266	238	193	152	121	101	83.1	70.1	60.4	51.0	45.3	41.9	40.3	40.2	39.5	
-70	387	407	422	420	388	332	267	207	166	131	105	87.0	68.2	55.3	47.2	42.7	41.7	40.5	
-65	456	479	486	478	454	405	340	274	227	183	145	114	85.3	66.9	53.6	45.2	42.3	40.5	
-60	560	586	582	566	553	515	449	376	318	261	203	154	111	84.3	63.3	48.9	43.3	40.6	
-55	647	663	646	615	595	562	505	435	372	312	250	191	136	96.9	71.0	51.7	43.3	40.0	
-50	777	778	743	688	659	632	590	523	452	388	320	246	174	116	82.7	55.9	43.4	39.0	
-45	789	778	740	696	676	660	629	570	502	434	364	291	216	134	90.6	59.3	43.7	38.3	
-40	807	778	737	707	703	702	689	641	577	502	430	358	280	161	102	64.4	44.1	37.4	
-35	780	757	730	719	734	753	743	690	629	556	483	412	329	193	110	67.4	44.4	37.1	
-30	739	726	719	736	780	829	825	764	707	638	563	493	402	242	122	71.8	44.8	36.7	
-25	813	804	802	824	871	929	942	893	830	746	647	559	463	294	131	74.2	45.1	36.8	
-20	924	921	926	955	1007	1079	1117	1087	1015	909	773	659	555	371	144	77.9	45.6	37.0	
-15	1037	1044	1064	1112	1178	1254	1306	1269	1173	1030	859	720	594	403	149	77.8	44.6	36.3	
-10	1207	1229	1272	1347	1435	1516	1590	1541	1410	1212	988	810	654	452	156	77.6	43.0	35.3	
-5	1363	1392	1452	1548	1650	1738	1818	1755	1588	1341	1080	876	693	480	160	76.5	41.4	34.0	
0	1690	1725	1799	1917	2044	2140	2206	2093	1853	1515	1212	970	747	509	161	72.8	38.3	31.6	
5	2002	2032	2102	2225	2352	2457	2495	2327	2016	1625	1299	1030	787	529	161	70.5	36.3	30.0	
10	2476	2510	2578	2702	2820	2903	2873	2619	2211	1768	1418	1108	832	545	154	66.0	33.1	27.6	
15	2674	2699	2765	2889	3006	3062	2980	2699	2289	1846	1481	1152	852	548	149	63.6	31.9	26.6	
20	2971	2983	3046	3169	3286	3302	3141	2820	2405	1963	1576	1218	881	553	142	60.1	30.1	25.1	
25	3016	3017	3064	3172	3267	3287	3123	2805	2414	1972	1580	1215	865	521	132	57.3	29.4	25.0	
30	3083	3067	3092	3175	3239	3265	3097	2784	2429	1986	1587	1209	842	474	118	53.0	28.4	24.8	
35	3082	3065	3110	3227	3327	3371	3221	2937	2526	2029	1577	1169	803	414	107	50.0	27.9	24.8	
40	3081	3062	3137	3304	3458	3530	3406	3167	2672	2094	1562	1108	745	323	90.7	45.4	27.1	24.7	
45	3032	3033	3139	3330	3503	3599	3508	3250	2700	2069	1505	1039	666	252	79.5	41.6	26.2	24.3	
50	2958	2990	3141	3368	3569	3702	3660	3374	2743	2033	1420	936	548	145	62.6	35.9	24.7	23.7	
55	2684	2744	2925	3175	3426	3579	3540	3196	2522	1849	1284	830	427	115	54.6	32.5	23.6	22.9	
60	2275	2375	2600	2886	3211	3394	3361	2929	2190	1575	1080	672	245	70.7	42.6	27.4	21.9	21.7	
65	1751	1860	2082	2375	2716	2883	2821	2414	1778	1238	812	468	169	56.7	35.7	24.5	20.6	20.8	
70	965	1087	1306	1608	1972	2117	2011	1643	1160	733	411	163	54.7	35.8	25.4	20.0	18.8	19.4	
75	609	686	824	1024	1264	1346	1255	1014	717	455	259	107	40.6	28.2	21.4	18.1	17.6	18.4	
80	73.8	85.0	101	149	201	190	120	71.8	52.0	38.3	31.5	24.0	19.5	16.7	15.4	15.3	15.8	16.9	
85	47.5	54.3	64.0	92.7	124	117	75.7	46.7	34.8	26.7	22.8	18.4	15.8	14.4	13.9	14.3	15.0	16.1	
90	8.03	8.23	8.41	8.56	8.68	8.77	8.88	8.98	9.13	9.34	9.62	9.98	10.4	11.0	11.7	12.7	13.7	14.8	

H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-27

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: