

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	149.6V x 148.4H
	At 50% of Imax	67.9V x 126.2H
	At 90% of Imax	36.3V x 99.8H

Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	971.9 lumens per klm.
	To 50% of Imax	651.4 lumens per klm.
	To 90% of Imax	60.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

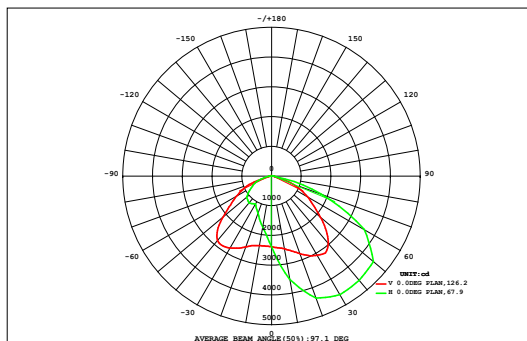
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:220.9V I:0.3245A P:70.65W PF:0.9857 Freq:49.99Hz Lamp Flux:11382.3x1 lm		
NAME: LUX-AL-70-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:T4



DATA OF LAMP		Eff:161.10lm/W	
MODEL	LED	Imax(cd)	5500
NOMINAL POWER(W)	70	AVAILABILITY(%)	97.3
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	11071
NOMINAL FLUX(lm)	11382.3	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	11382
TEST VOLTAGE(V)	230	θ @50%(H,V)	126,68DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.04	0.12	0.24	0.50	0.98	5.07	6.77	3.09	2.39	2.46	3.65	7.07	4.56	0.98	0.57	0.31	0.17	0.06	39.0	0.00
90	0.04	0.12	0.24	0.50	0.98	5.07	6.77	3.09	2.39	2.46	3.65	7.07	4.56	0.98	0.57	0.31	0.17	0.06	39.0	0.00
80	0.04	0.19	0.94	7.16	23.4	46.9	47.1	32.6	28.1	29.3	37.7	51.7	43.4	20.7	6.28	0.89	0.27	0.07	377	356
70	0.05	0.32	3.58	22.4	63.9	105	104	86.2	80.7	82.9	96.1	114	103	57.3	20.3	3.42	0.44	0.09	943	937
60	0.06	0.49	8.16	35.4	84.4	124	127	120	122	123	131	142	129	79.9	33.5	7.85	0.65	0.11	1269	1264
50	0.07	0.77	12.5	39.3	82.5	117	128	129	136	137	139	144	128	84.7	39.5	12.2	0.97	0.12	1329	1326
40	0.08	1.38	15.4	39.5	75.1	107	124	130	138	139	137	137	118	79.4	41.2	15.5	1.47	0.14	1299	1296
30	0.10	2.01	16.7	39.9	73.4	105	122	129	135	137	136	134	114	75.6	41.0	16.8	2.06	0.15	1281	1278
	0.13	2.37	16.2	37.6	70.8	101	112	115	119	121	123	125	109	71.9	38.5	16.4	2.42	0.16	1182	1180
	0.15	2.49	14.8	32.7	61.7	83.7	88.3	87.0	88.5	90.4	93.5	97.1	90.4	62.6	33.6	15.0	2.51	0.18	945	942
	0.18	2.35	13.1	27.3	48.2	60.7	62.5	60.8	60.9	62.1	64.8	68.4	66.1	49.4	27.9	13.1	2.35	0.20	690	687
	0.19	2.00	11.2	21.9	35.6	43.6	45.0	45.0	46.3	47.0	47.5	49.1	47.8	36.8	22.2	11.1	1.98	0.21	514	510
-30	0.19	1.52	8.64	16.4	25.0	31.0	32.6	34.0	36.3	36.6	35.7	36.3	34.5	26.2	16.7	8.60	1.58	0.21	382	376
-40	0.18	1.19	5.91	12.2	19.1	24.8	27.1	30.3	33.7	33.8	31.7	30.7	27.3	19.8	12.4	5.91	1.23	0.20	318	306
-50	0.17	0.95	3.76	9.28	15.8	21.7	25.2	31.1	34.7	34.8	32.3	28.1	23.1	16.0	9.29	3.83	1.02	0.19	291	272
-60	0.16	0.75	2.35	6.32	11.9	18.2	22.8	27.4	29.1	29.5	28.9	24.8	18.6	11.7	6.23	2.41	0.81	0.18	242	212
-70	0.15	0.56	1.41	3.44	7.20	12.8	17.8	19.6	19.9	20.7	21.7	18.8	12.5	7.03	3.45	1.50	0.61	0.16	169	124
-80	0.14	0.44	0.85	1.53	2.99	5.80	9.28	10.6	9.78	10.5	11.9	9.59	5.57	2.98	1.60	0.90	0.47	0.15	85.0	5.80
-90	0.13	0.39	0.61	0.83	1.07	1.36	2.30	2.95	2.51	2.67	3.19	2.43	1.49	1.16	0.88	0.63	0.40	0.14	25.2	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	2.24	20.3	136	354	703	1016	1104	1094	1123	1140	1175	1219	1076	704	355	136	21.4	2.72	11382	---
Φ a	0.00	4.28	116	332	685	995	1083	1076	1106	1123	1158	1200	1055	685	333	115	3.90	0.00	---	11071

one-half-peak spread: U:31.2,D:37.2 , L:27.3,R:28.3

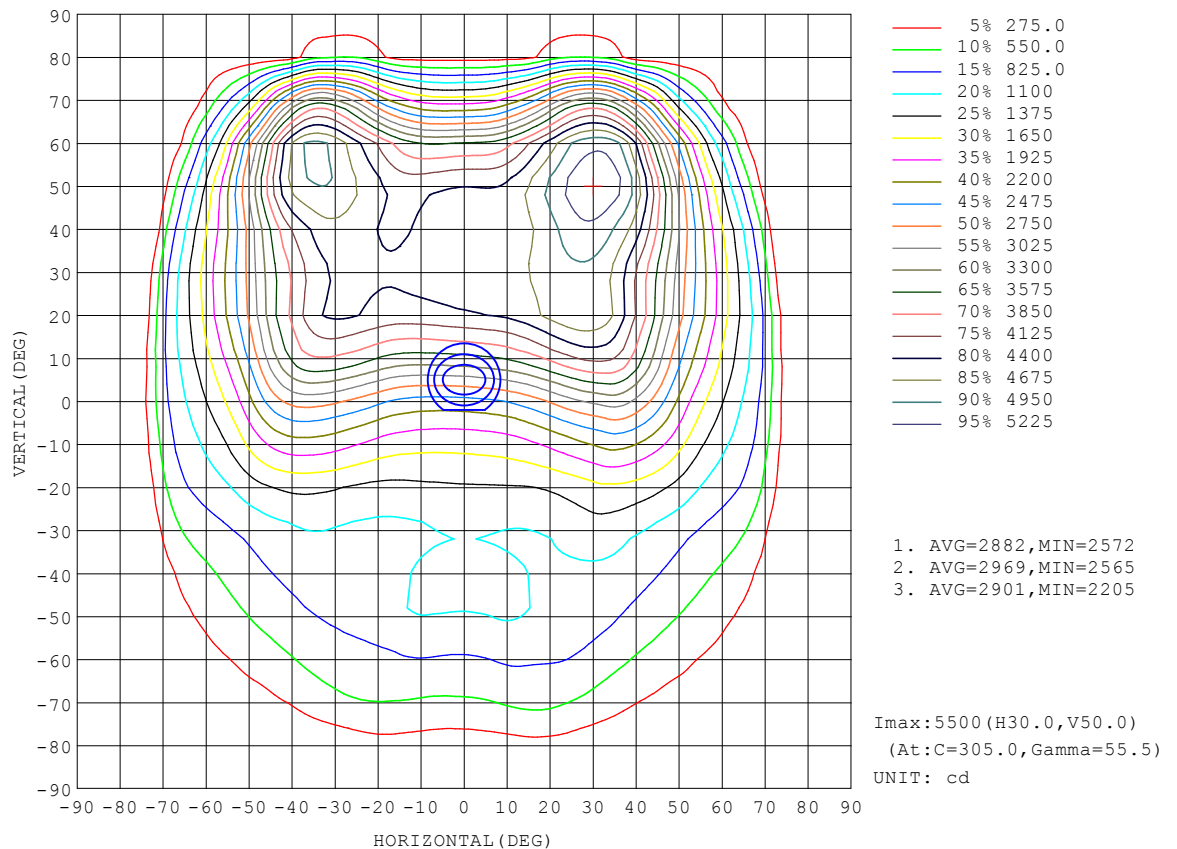
NEMA Beam Type: Type 7

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:220.9V I:0.3245A P:70.65W PF:0.9857 Freq:49.99Hz Lamp Flux:11382.3x1 lm		
NAME: LUX-AL-70-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:T4

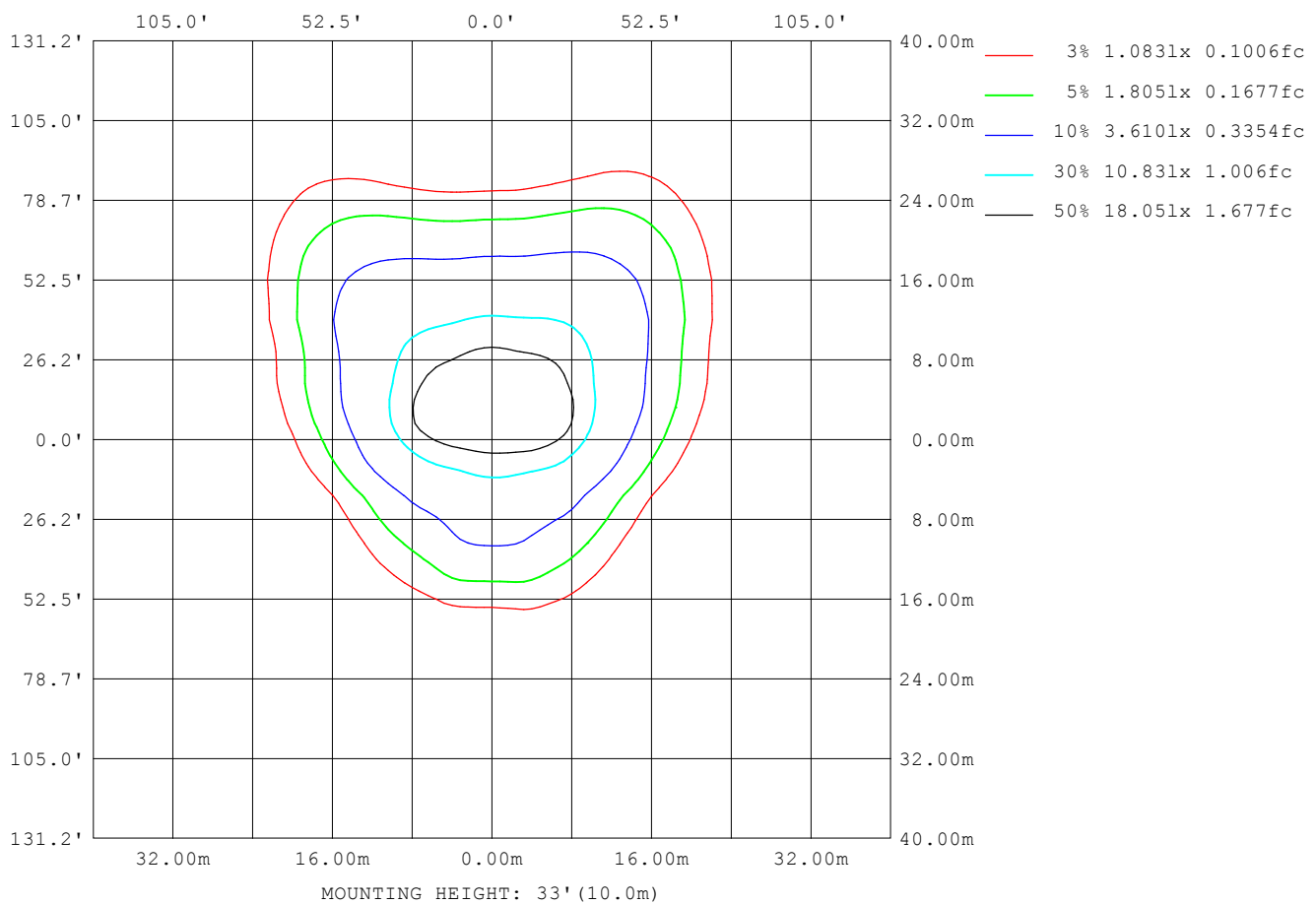


H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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

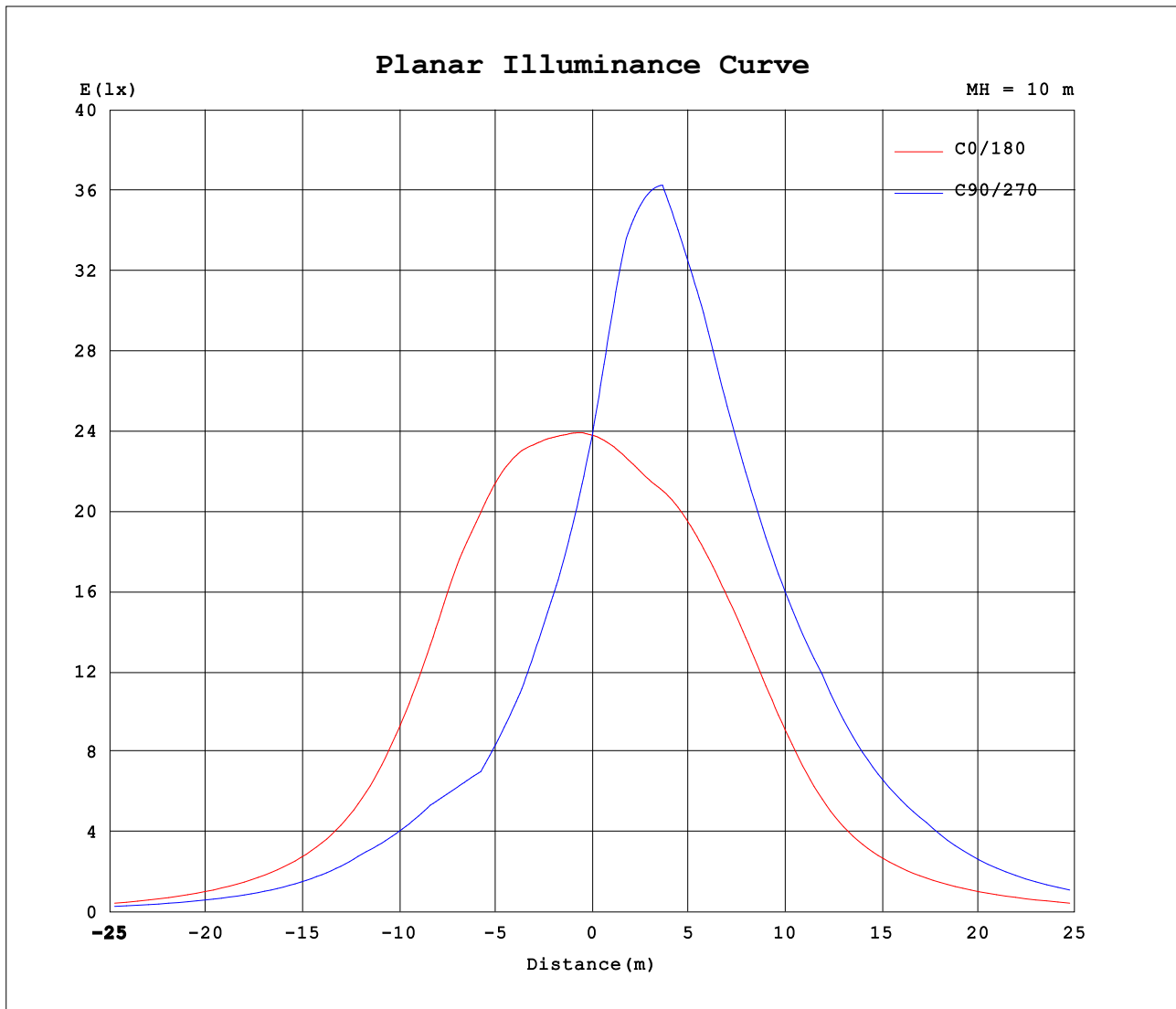
Test:U:220.9V I:0.3245A P:70.65W PF:0.9857 Freq:49.99Hz Lamp Flux:11382.3x1 lm		
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SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:T4



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:

Planar Illuminance Curve

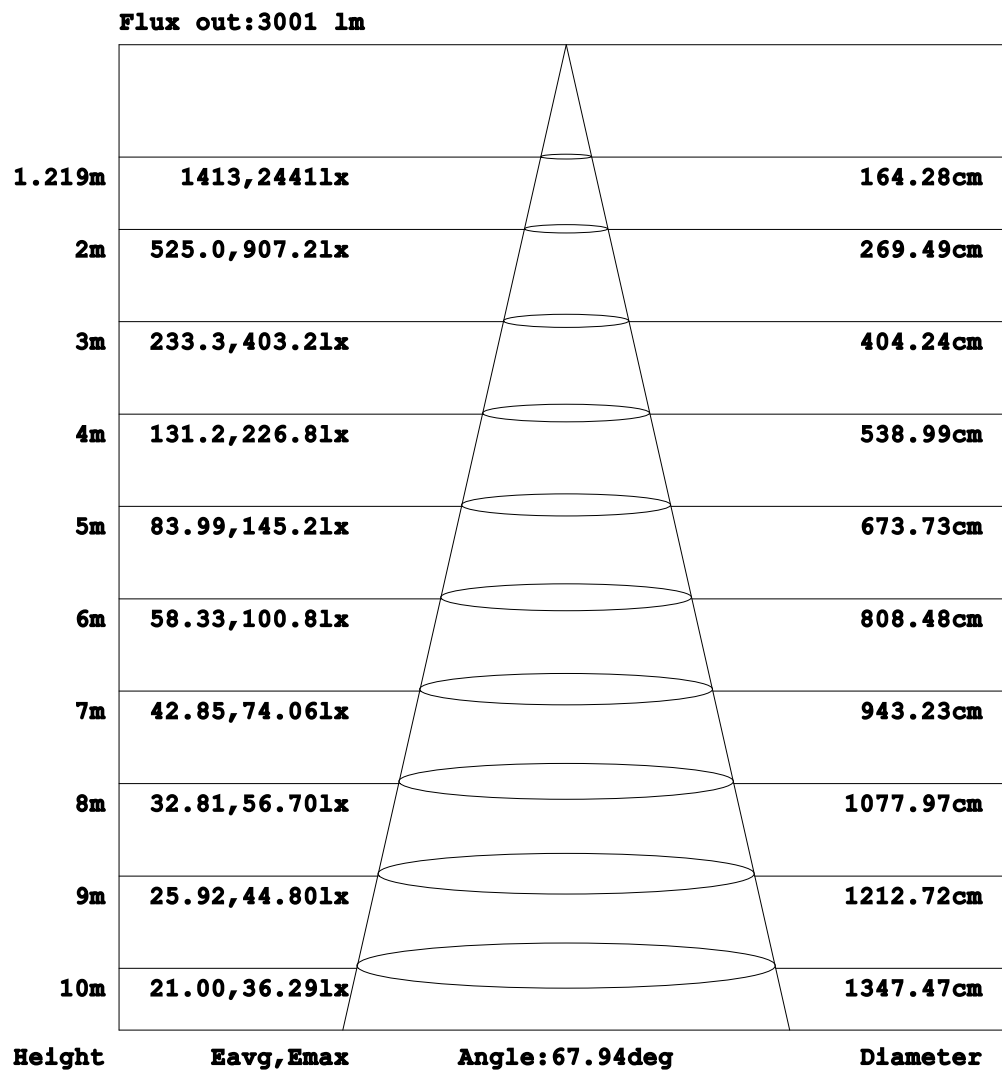


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:220.9V I:0.3245A P:70.65W PF:0.9857 Freq:49.99Hz Lamp Flux:11382.3x1 lm		
NAME: LUX-AL-70-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	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:2023-10-26

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:220.9V I:0.3245A P:70.65W PF:0.9857 Freq:49.99Hz Lamp Flux:11382.3x1 lm		
NAME: LUX-AL-70-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	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	50.1	50.1	49.3	48.3	46.8	45.3	44.2	43.3	42.9	43.3	43.5	43.9	44.4	44.9	45.5	46.3	47.2	48.2	48.9
-85	50.3	50.5	49.9	49.2	48.1	47.3	47.0	47.4	48.5	50.5	52.5	56.4	64.3	80.3	95.9	94.3	87.9	79.5	78.8
-80	50.5	51.2	50.7	50.4	50.2	50.4	51.4	53.7	57.0	61.4	66.0	75.2	94.1	133	172	166	149	126	124
-75	51.4	52.3	52.8	54.5	57.7	62.5	70.5	80.9	95.4	124	156	199	245	295	328	320	298	279	282
-70	52.6	54.0	55.8	60.6	68.9	80.8	99.2	122	153	218	291	386	471	539	563	550	521	509	519
-65	53.3	55.2	59.0	68.0	81.7	101	136	179	235	308	389	486	571	628	645	646	639	624	628
-60	54.3	57.0	63.9	79.1	101	131	191	265	358	444	536	637	721	762	767	790	816	797	791
-55	53.6	57.4	67.8	88.7	118	165	246	339	438	528	621	712	777	812	840	903	940	922	914
-50	52.4	58.0	73.7	103	143	214	329	450	557	654	748	824	860	885	950	1073	1125	1111	1099
-45	51.4	58.3	77.4	112	161	275	394	514	621	719	806	866	888	903	960	1067	1128	1136	1135
-40	49.8	58.8	82.8	125	188	365	491	609	717	817	892	928	930	931	974	1058	1133	1175	1189
-35	49.7	59.8	87.4	135	235	447	575	681	784	880	951	992	983	971	988	1041	1097	1133	1146
-30	49.5	61.4	94.3	150	305	570	700	789	883	974	1040	1086	1063	1031	1010	1016	1045	1069	1082
-25	49.7	61.7	96.6	156	374	660	794	902	1027	1131	1195	1222	1196	1155	1126	1128	1153	1175	1187
-20	49.9	62.0	100	166	477	795	936	1073	1243	1366	1427	1426	1394	1340	1300	1295	1315	1333	1344
-15	48.5	60.6	101	171	542	859	1024	1200	1427	1604	1691	1691	1648	1574	1510	1481	1483	1490	1500
-10	46.3	58.5	102	179	638	954	1157	1391	1703	1963	2086	2088	2027	1925	1826	1761	1734	1726	1734
-5	43.5	55.0	98.4	178	670	999	1239	1508	1870	2194	2357	2361	2294	2188	2079	1994	1953	1939	1948
0	38.9	49.6	93.4	178	725	1078	1371	1692	2128	2578	2830	2865	2793	2676	2535	2422	2374	2366	2380
5	35.6	45.4	88.0	171	743	1128	1452	1808	2283	2825	3176	3273	3212	3088	2941	2821	2784	2789	2805
10	30.7	39.6	81.1	163	774	1211	1589	2004	2533	3170	3654	3867	3844	3734	3600	3503	3483	3496	3520
15	28.0	35.9	75.4	151	764	1236	1648	2097	2636	3273	3755	4043	4089	4004	3892	3815	3808	3830	3860
20	23.8	30.3	66.8	133	750	1274	1737	2236	2790	3428	3906	4306	4456	4410	4331	4282	4295	4332	4371
25	22.2	28.2	62.6	125	724	1273	1753	2250	2809	3433	3886	4273	4441	4440	4380	4362	4398	4436	4464
30	19.9	25.1	56.5	114	683	1272	1777	2270	2837	3439	3855	4223	4419	4487	4454	4482	4552	4591	4604
35	19.4	23.7	51.7	104	576	1189	1720	2237	2841	3497	3968	4312	4486	4504	4430	4427	4516	4575	4594
40	18.5	21.6	44.6	89.4	414	1065	1636	2187	2848	3586	4137	4445	4586	4530	4393	4346	4461	4551	4578
45	18.4	20.8	41.2	81.1	314	962	1559	2195	2944	3786	4394	4658	4727	4604	4435	4341	4412	4499	4535
50	18.1	19.6	36.0	68.5	164	807	1443	2205	3089	4087	4780	4977	4937	4714	4499	4333	4339	4421	4470
55	18.0	18.8	32.1	59.7	130	625	1256	2006	2921	3936	4741	4990	4909	4617	4339	4098	4034	4076	4118
60	17.8	17.7	26.3	46.5	80.5	350	974	1707	2667	3710	4684	5009	4866	4471	4100	3747	3577	3558	3591
65	17.8	17.2	23.5	39.3	66.2	243	720	1332	2118	3092	4015	4427	4305	3893	3443	3074	2879	2836	2858
70	17.7	16.5	19.3	28.5	44.8	81.7	340	769	1293	2166	3012	3554	3464	3026	2457	2064	1833	1753	1759
75	17.7	16.3	17.8	23.6	34.7	59.1	218	481	799	1330	1869	2315	2293	2028	1613	1311	1163	1111	1115
80	17.8	16.1	15.5	16.4	19.5	25.2	34.2	48.9	58.9	77.0	156	457	535	530	347	180	159	150	150
85	18.0	16.4	15.4	15.4	16.9	19.9	25.1	33.9	39.8	50.6	97.9	279	325	323	213	113	100	94.8	95.2
90	18.4	16.7	15.2	13.9	12.9	12.1	11.6	11.2	11.1	11.0	11.0	11.1	11.2	11.4	11.6	11.8	12.0	12.2	12.5

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.3245A P:70.65W PF:0.9857 Freq:49.99Hz Lamp Flux:11382.3x1 lm																		
NAME: LUX-AL-70-TypeIV-T4-C13805									TYPE:LED					WEIGHT:				
SPEC.:									DIM.: 0.3*0.25*0.1					SERIAL No.:				
MFR.:									SUR.:0.1*0.2					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	49.5	49.7	49.7	49.4	49.0	48.4	47.9	47.3	46.5	45.6	45.2	45.5	45.5	47.5	49.7	51.6	52.9	52.9	
-85	85.4	93.1	104	101	85.9	67.5	61.0	57.2	54.6	52.0	50.2	49.3	48.5	49.7	51.3	52.9	54.1	53.8	
-80	139	158	185	179	141	96.2	80.7	72.0	66.7	61.6	57.7	54.9	52.9	53.0	53.8	55.0	55.9	55.2	
-75	299	332	362	355	306	242	193	154	125	98.3	85.2	74.7	66.1	61.4	58.7	57.5	57.3	56.1	
-70	540	594	628	618	552	461	360	277	214	153	127	104	85.9	73.9	65.9	61.2	59.4	57.5	
-65	650	700	719	709	657	573	469	376	304	232	181	140	109	87.8	74.0	64.9	60.4	57.8	
-60	815	859	856	846	815	740	631	525	439	350	262	194	142	109	86.1	70.3	62.0	58.1	
-55	935	972	956	919	882	817	721	614	521	428	336	247	172	125	95.9	74.3	62.6	57.5	
-50	1116	1142	1106	1028	982	934	855	748	643	545	447	328	216	150	111	80.3	63.4	56.6	
-45	1140	1142	1103	1047	1010	977	918	823	720	616	514	398	278	169	120	84.3	63.7	55.4	
-40	1176	1142	1099	1074	1052	1043	1012	935	836	723	614	505	371	198	134	90.4	64.2	53.6	
-35	1135	1109	1085	1086	1103	1122	1088	1004	907	798	688	583	448	236	142	94.1	64.7	53.2	
-30	1073	1060	1065	1103	1179	1241	1204	1107	1015	909	800	700	565	293	155	99.6	65.5	52.7	
-25	1184	1178	1185	1223	1296	1371	1361	1279	1182	1059	916	794	655	368	163	103	66.3	53.0	
-20	1350	1356	1366	1404	1471	1566	1596	1537	1433	1283	1092	937	792	480	176	108	67.5	53.4	
-15	1511	1530	1564	1630	1721	1821	1873	1800	1660	1458	1220	1027	851	532	179	108	66.4	52.9	
-10	1753	1791	1862	1970	2097	2204	2288	2194	2001	1720	1412	1162	940	611	184	109	64.8	52.0	
-5	1973	2026	2120	2255	2395	2507	2601	2486	2239	1894	1540	1256	996	657	186	107	63.0	50.3	
0	2418	2487	2605	2776	2951	3072	3152	2964	2609	2144	1730	1391	1073	700	183	102	58.7	47.3	
5	2851	2918	3038	3218	3399	3530	3564	3301	2850	2311	1866	1486	1134	733	181	99.0	55.9	45.1	
10	3567	3635	3769	3948	4122	4222	4160	3757	3153	2534	2048	1608	1204	754	169	92.6	51.3	41.8	
15	3900	3961	4090	4272	4441	4500	4353	3897	3285	2660	2151	1678	1240	757	162	89.4	49.3	40.2	
20	4400	4450	4572	4758	4919	4917	4642	4108	3484	2850	2306	1784	1295	762	153	84.8	46.3	37.7	
25	4481	4516	4618	4780	4904	4889	4618	4097	3499	2875	2323	1789	1279	715	144	81.2	45.1	37.4	
30	4602	4613	4687	4813	4883	4846	4582	4081	3522	2912	2350	1796	1254	644	131	75.8	43.4	36.8	
35	4580	4577	4663	4828	4965	4969	4720	4258	3646	2967	2330	1744	1189	556	123	72.3	42.7	36.8	
40	4547	4522	4628	4850	5088	5152	4926	4523	3831	3049	2300	1667	1092	425	112	66.9	41.6	36.8	
45	4510	4518	4675	4937	5193	5291	5107	4675	3891	3023	2227	1559	959	322	102	62.2	40.1	36.3	
50	4454	4513	4746	5067	5350	5500	5379	4902	3980	2984	2118	1398	760	167	87.8	55.1	37.8	35.5	
55	4120	4218	4494	4851	5191	5363	5248	4698	3724	2760	1911	1213	593	139	78.5	50.4	36.0	34.4	
60	3619	3775	4117	4527	4953	5156	5052	4392	3340	2424	1601	935	343	97.6	64.6	43.4	33.3	32.7	
65	2896	3076	3420	3869	4321	4513	4339	3683	2773	1910	1227	663	239	81.2	55.2	38.7	31.3	31.3	
70	1811	2028	2374	2882	3373	3549	3269	2620	1923	1141	666	256	82.3	56.7	41.1	31.7	28.3	29.2	
75	1148	1285	1512	1894	2240	2342	2117	1620	1184	709	421	170	62.5	45.0	34.5	28.4	26.6	27.8	
80	153	170	218	412	541	533	389	121	77.0	61.6	53.4	40.6	32.8	27.6	24.5	23.4	23.9	25.6	
85	96.7	107	136	253	330	325	239	78.1	51.9	42.8	37.9	30.4	26.0	23.2	21.8	21.7	22.6	24.3	
90	12.8	13.2	13.6	14.0	14.1	14.2	14.2	14.2	14.2	14.4	14.7	15.2	15.8	16.6	17.7	19.1	20.6	22.4	

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: