

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	482.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	150.1V x 149.7H
	At 50% of Imax	67.4V x 125.3H
	At 90% of Imax	35.9V x 99.4H

Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	972.0 lumens per klm.
	To 50% of Imax	648.2 lumens per klm.
	To 90% of Imax	66.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

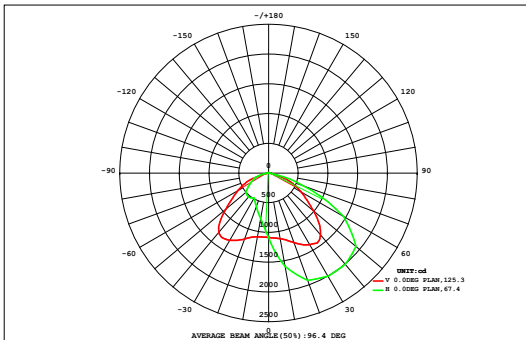
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-27

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:221.1V I:0.1458A P:31.32W PF:0.9715 Freq:49.99Hz Lamp Flux:4966.72x1 lm		
NAME: LUX-AL-30-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:158.60lm/W	
MODEL	LED	Imax (cd)	2395
NOMINAL POWER (W)	30	AVAILABILITY (%)	97.3
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	4834
NOMINAL FLUX (lm)	4966.72	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	4967
TEST VOLTAGE (V)	230	θ @50% (H,V)	125,67DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.02	0.05	0.09	0.18	0.39	0.99	1.51	0.92	0.76	0.78	1.03	1.70	1.04	0.42	0.22	0.12	0.07	0.02	10.3	0.00
90	0.02	0.05	0.09	0.18	0.39	0.99	1.51	0.92	0.76	0.78	1.03	1.70	1.04	0.42	0.22	0.12	0.07	0.02	10.3	0.00
80	0.02	0.07	0.31	2.47	8.41	16.2	16.3	11.5	9.59	9.99	13.0	18.3	16.3	8.31	2.52	0.36	0.11	0.03	134	123
70	0.02	0.13	1.35	8.60	24.6	42.3	41.8	34.0	30.9	31.8	37.2	45.7	42.6	23.8	8.64	1.53	0.19	0.04	375	372
60	0.02	0.23	3.37	14.7	35.7	54.5	55.8	51.4	50.9	51.7	55.0	60.4	56.1	34.8	14.6	3.60	0.31	0.04	543	541
50	0.03	0.38	5.30	17.1	36.9	53.1	57.4	56.6	58.9	59.4	60.1	62.6	56.8	37.9	17.3	5.50	0.50	0.05	586	584
40	0.03	0.64	6.53	17.1	33.3	48.0	55.0	57.0	60.2	60.4	59.4	59.6	52.2	35.6	18.1	6.80	0.77	0.06	571	569
30	0.04	0.93	7.12	17.2	31.8	46.2	53.8	56.5	59.1	59.4	58.5	57.9	49.9	33.6	18.1	7.40	1.05	0.06	559	557
20	0.05	1.11	7.05	16.4	31.0	45.1	50.7	51.5	53.0	53.6	53.8	54.5	48.2	32.3	17.2	7.32	1.23	0.07	524	523
10	0.06	1.17	6.50	14.5	27.6	38.7	41.0	40.2	40.5	41.0	41.9	43.5	40.8	28.6	15.2	6.76	1.28	0.08	429	428
0	0.08	1.12	5.72	12.1	21.9	28.2	29.0	27.8	27.6	27.9	28.9	30.7	30.0	22.8	12.7	5.94	1.20	0.09	314	312
-10	0.08	0.97	4.94	9.79	16.4	20.3	20.9	20.5	20.8	21.0	21.1	21.9	21.7	16.9	10.1	5.06	1.03	0.09	233	232
-20	0.09	0.75	3.93	7.45	11.6	14.4	15.1	15.4	16.3	16.4	15.8	16.0	15.6	12.0	7.65	3.99	0.83	0.09	173	171
-30	0.08	0.58	2.76	5.53	8.65	11.3	12.2	13.5	15.1	15.1	13.9	13.3	12.1	8.93	5.66	2.82	0.64	0.09	142	138
-40	0.08	0.46	1.80	4.17	7.07	9.78	11.2	13.7	15.6	15.6	14.1	12.2	10.3	7.23	4.27	1.89	0.50	0.08	130	122
-50	0.07	0.36	1.15	2.93	5.37	8.18	10.2	12.3	13.3	13.3	12.7	10.9	8.42	5.42	3.00	1.23	0.39	0.08	109	96.5
-60	0.07	0.27	0.71	1.72	3.38	5.77	8.12	9.09	9.31	9.39	9.55	8.41	5.84	3.41	1.78	0.78	0.29	0.07	77.9	59.4
-70	0.06	0.21	0.42	0.81	1.52	2.75	4.50	5.21	5.00	5.12	5.55	4.70	2.81	1.56	0.87	0.46	0.22	0.07	41.9	5.69
-80	0.06	0.18	0.29	0.40	0.55	0.78	1.34	1.68	1.44	1.51	1.79	1.47	0.85	0.61	0.43	0.30	0.19	0.06	13.9	0.00
-90	0.06	0.18	0.29	0.40	0.55	0.78	1.34	1.68	1.44	1.51	1.79	1.47	0.85	0.61	0.43	0.30	0.19	0.06	13.9	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.98	9.63	59.3	153	306	446	486	479	488	493	503	524	472	314	158	61.9	10.8	1.20	4967	---
Φ a	0.00	2.13	50.5	143	298	439	478	471	481	486	496	516	464	306	149	52.7	2.44	0.00	---	4834

one-half-peak spread: U:42.4,D:25.4 , L:26.5,R:28.2

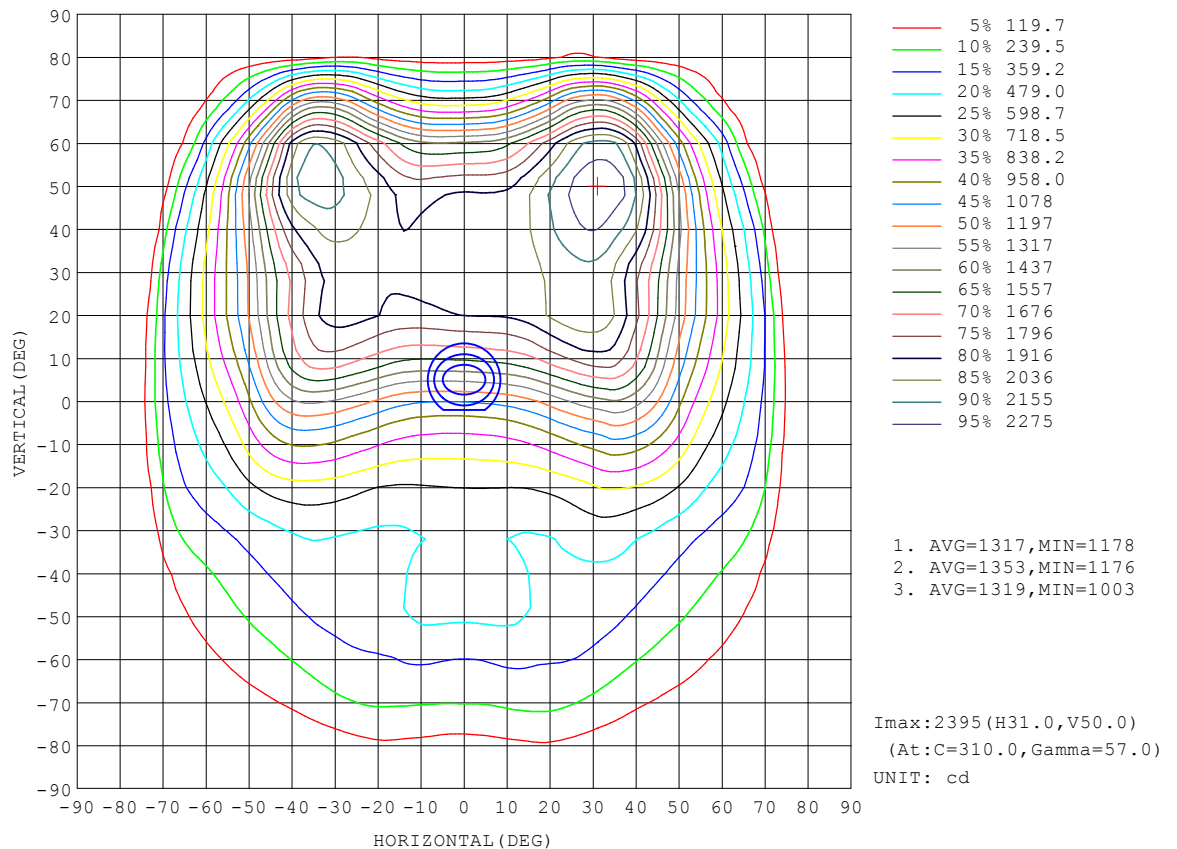
NEMA Beam Type: Type 7

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:221.1V I:0.1458A P:31.32W PF:0.9715 Freq:49.99Hz Lamp Flux:4966.72x1 lm		
NAME: LUX-AL-30-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

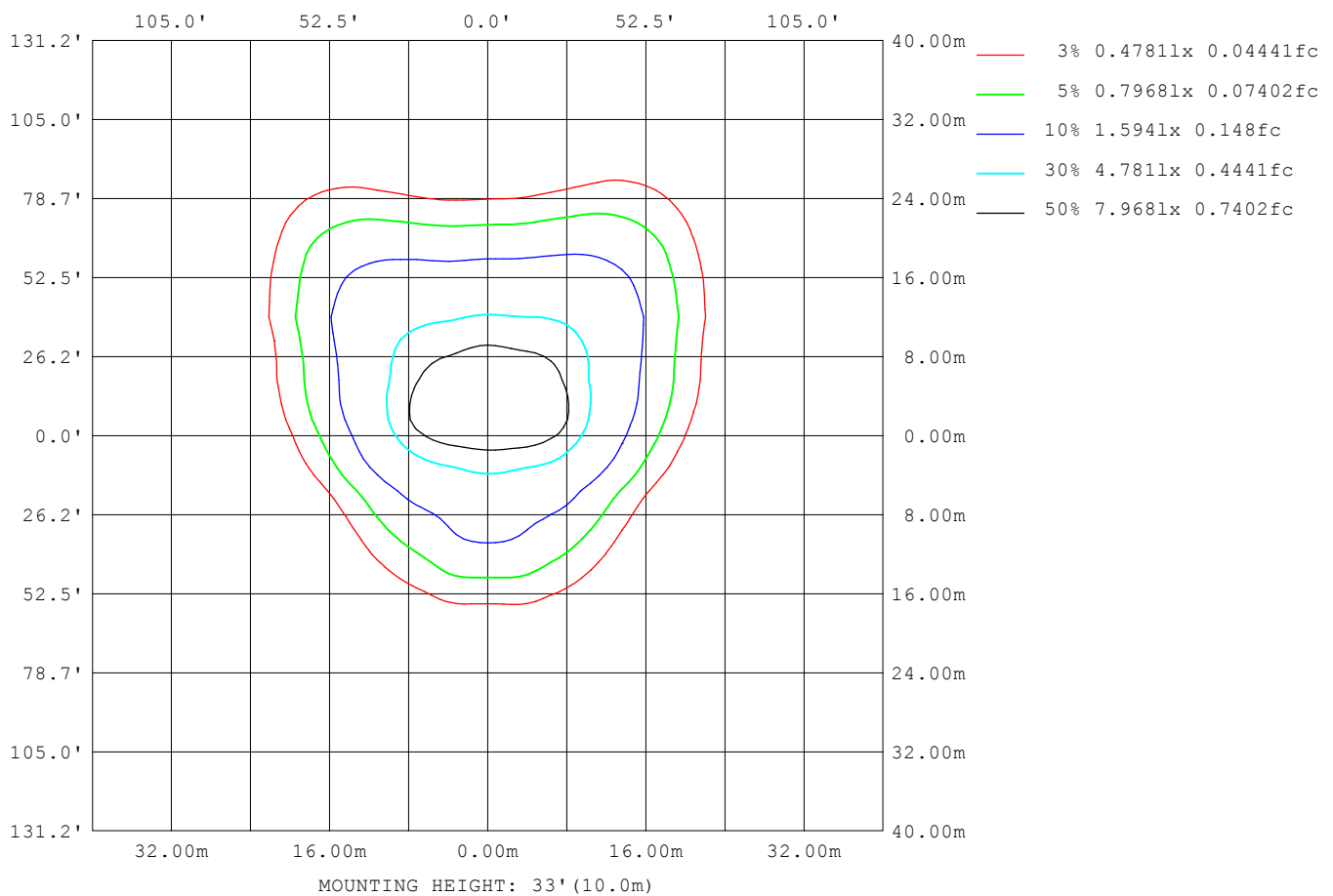


H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-27

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

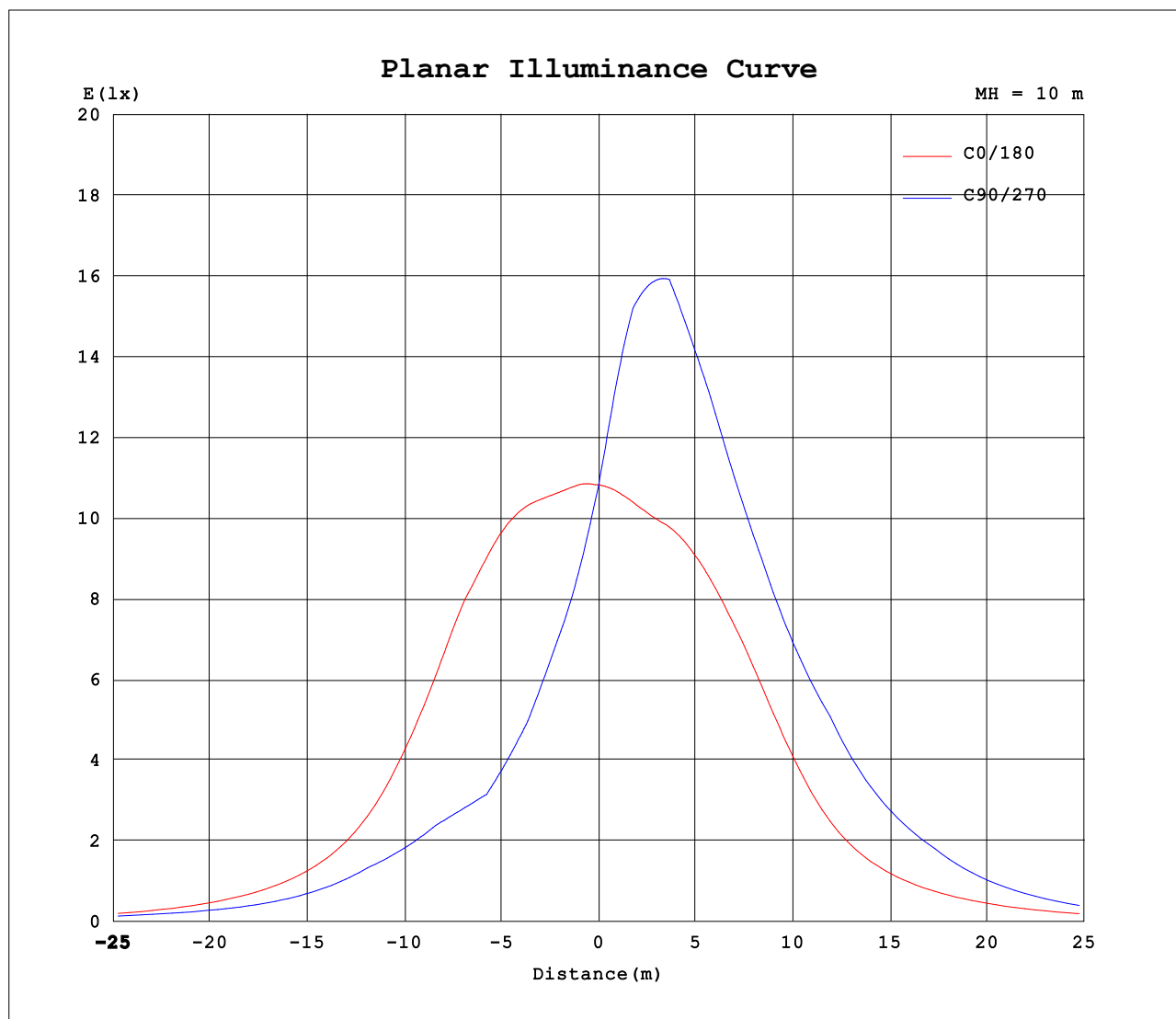
Test:U:221.1V I:0.1458A P:31.32W PF:0.9715 Freq:49.99Hz Lamp Flux:4966.72x1 lm		
NAME: LUX-AL-30-TypeIV-T4-C13805	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:T4



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

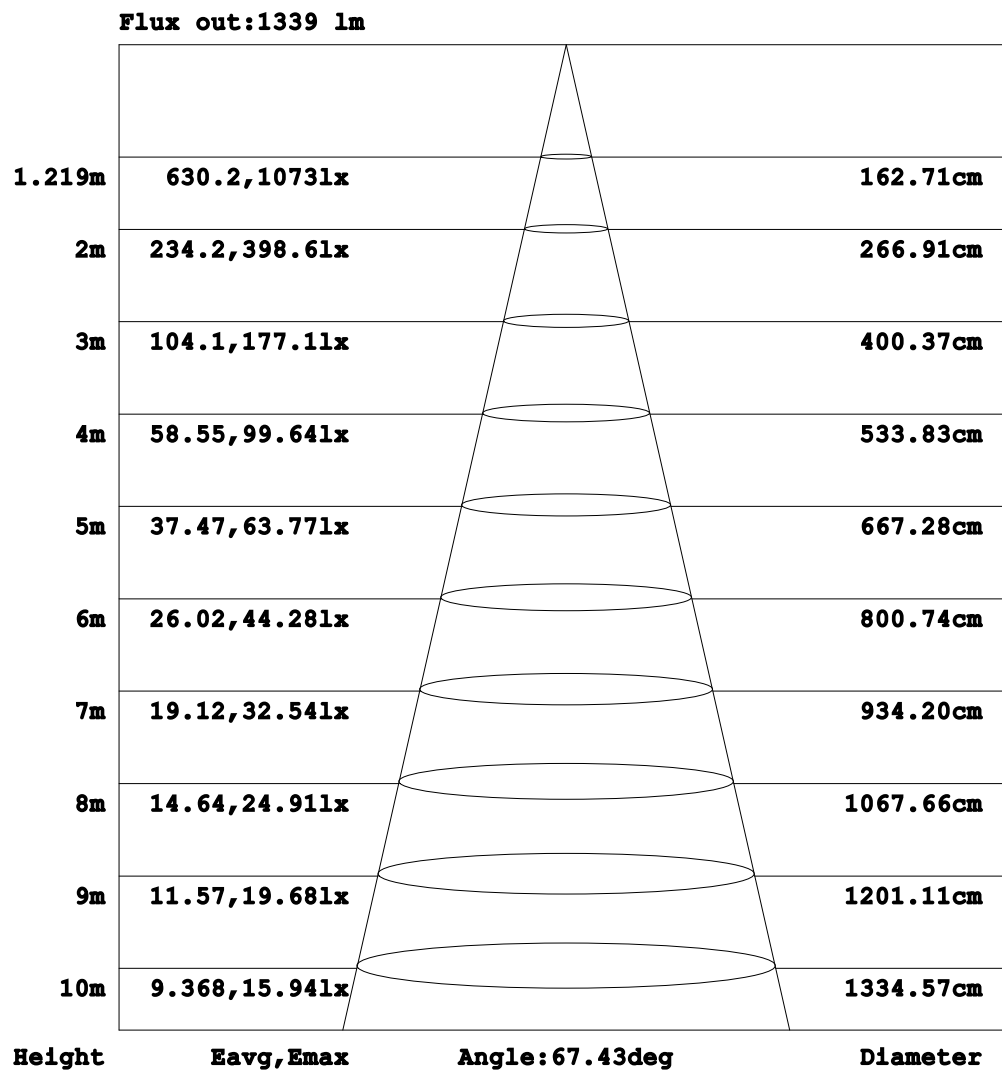


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-27

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:221.1V I:0.1458A P:31.32W PF:0.9715 Freq:49.99Hz Lamp Flux:4966.72x1 lm		
NAME: LUX-AL-30-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:221.1V I:0.1458A P:31.32W PF:0.9715 Freq:49.99Hz Lamp Flux:4966.72x1 lm		
NAME: LUX-AL-30-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	22.9	22.8	22.7	22.6	21.8	20.9	20.2	20.0	19.8	19.8	19.9	20.2	20.5	20.7	21.0	21.4	21.8	22.2	22.6
-85	23.1	23.2	23.2	23.2	22.6	22.3	22.3	23.0	23.9	25.3	27.0	30.1	36.0	44.9	52.1	51.6	48.7	43.9	42.4
-80	23.4	23.6	23.8	24.1	23.9	24.2	25.4	27.4	30.0	33.5	37.7	45.0	59.2	81.1	98.7	97.0	89.0	76.3	72.0
-75	23.8	24.2	24.7	25.9	27.7	30.8	36.0	42.3	51.5	63.3	76.5	96.0	121	147	163	161	154	145	144
-70	24.4	25.1	26.1	28.7	33.3	40.6	51.9	64.6	83.8	108	135	173	214	246	259	256	252	249	251
-65	24.6	25.6	27.4	32.2	39.9	50.5	69.0	90.3	117	146	178	219	259	286	295	299	301	295	294
-60	25.0	26.3	29.4	37.4	49.9	65.4	94.6	129	166	203	242	288	326	346	350	362	374	364	358
-55	24.6	26.3	31.0	42.1	58.0	81.4	119	159	200	239	279	321	350	366	377	406	426	421	416
-50	23.9	26.3	33.4	49.2	70.2	105	155	203	250	293	335	370	388	396	418	471	503	505	503
-45	23.4	26.3	35.1	53.7	80.2	133	182	231	278	321	361	391	401	404	422	468	503	512	514
-40	22.6	26.3	37.8	60.3	95.1	174	223	272	319	365	400	422	421	416	427	464	501	524	532
-35	22.5	26.6	39.9	65.4	118	209	261	307	353	397	430	452	447	439	441	462	489	506	513
-30	22.3	27.1	43.1	73.0	153	262	318	360	405	445	475	497	486	472	461	460	470	480	486
-25	22.2	27.0	44.0	77.5	183	299	359	410	471	521	552	566	554	533	516	510	517	526	532
-20	22.1	26.8	45.3	84.3	228	353	420	485	571	636	668	670	655	625	597	585	588	596	601
-15	21.2	25.9	45.3	88.5	253	377	457	538	648	739	786	788	768	731	695	673	668	669	672
-10	20.0	24.4	45.4	94.8	291	414	511	618	762	894	963	966	938	890	841	804	787	779	780
-5	18.7	22.8	43.8	95.7	304	433	547	667	833	997	1089	1098	1066	1014	958	911	885	875	876
0	16.6	20.3	41.4	97.5	325	469	603	746	939	1162	1302	1334	1304	1246	1179	1118	1089	1081	1083
5	15.1	18.5	39.0	95.0	333	492	641	799	1005	1264	1452	1522	1500	1441	1370	1308	1284	1281	1285
10	13.0	15.9	35.9	91.9	347	525	700	885	1109	1394	1632	1756	1766	1713	1652	1599	1583	1584	1592
15	11.8	14.4	33.3	86.7	343	533	722	920	1149	1429	1662	1807	1848	1814	1759	1715	1705	1712	1722
20	10.1	12.2	29.4	78.9	337	545	754	971	1207	1482	1707	1885	1972	1964	1919	1890	1887	1904	1918
25	9.51	11.3	27.5	72.7	320	540	753	971	1211	1485	1700	1872	1958	1961	1928	1911	1921	1939	1951
30	8.62	10.1	24.7	63.6	295	533	752	972	1215	1490	1690	1853	1937	1957	1941	1943	1973	1993	2000
35	8.41	9.58	22.3	55.4	249	504	726	969	1238	1540	1771	1919	1993	1992	1957	1933	1961	1989	2002
40	8.10	8.82	18.7	43.1	179	461	687	965	1271	1615	1892	2019	2077	2043	1981	1919	1943	1983	2003
45	8.03	8.53	17.0	38.1	140	415	656	953	1301	1690	1994	2110	2135	2070	1991	1910	1913	1948	1969
50	7.92	8.08	14.5	30.7	82.1	346	609	935	1346	1803	2146	2246	2223	2110	2005	1896	1868	1894	1918
55	7.87	7.85	12.8	26.1	63.5	262	524	840	1225	1673	2071	2209	2173	2033	1894	1762	1705	1714	1732
60	7.80	7.51	10.3	19.1	35.5	135	396	697	1044	1477	1957	2153	2098	1918	1727	1560	1461	1443	1453
65	7.78	7.37	9.24	15.8	28.3	93.3	278	522	817	1189	1614	1813	1772	1599	1396	1231	1132	1106	1113
70	7.76	7.16	7.69	10.9	17.4	30.3	101	259	476	755	1098	1302	1284	1121	900	737	638	601	604
75	7.78	7.09	7.27	9.18	13.4	21.8	65.3	162	294	466	677	811	816	719	573	466	403	379	381
80	7.81	7.00	6.63	6.67	7.44	9.16	12.2	16.8	21.5	31.6	45.1	74.7	113	116	81.4	59.3	49.7	45.8	47.1
85	7.92	7.16	6.67	6.47	6.74	7.62	9.34	12.0	14.8	20.8	28.8	46.6	69.4	71.5	50.7	37.5	31.7	29.5	30.2
90	8.09	7.40	6.74	6.16	5.69	5.31	5.03	4.82	4.67	4.57	4.50	4.48	4.48	4.51	4.58	4.69	4.79	4.90	5.01

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.1458A P:31.32W PF:0.9715 Freq:49.99Hz Lamp Flux:4966.72x1 lm		
NAME: LUX-AL-30-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	22.9	23.0	22.9	22.7	22.4	22.1	21.9	21.6	21.4	21.0	20.7	20.9	21.3	21.8	22.5	23.2	23.8	23.8	
-85	46.0	50.9	55.1	56.2	49.0	39.4	32.7	29.6	27.6	25.8	24.5	23.6	23.2	23.1	23.5	24.0	24.4	24.3	
-80	80.7	92.8	104	107	88.8	65.3	49.0	41.5	37.1	33.0	30.1	27.6	26.0	25.1	25.0	25.2	25.4	25.1	
-75	149	162	172	173	154	126	98.9	78.6	65.5	54.0	45.5	39.2	33.5	29.5	27.3	26.3	26.1	25.5	
-70	252	265	274	273	252	216	174	134	108	85.5	68.5	56.6	44.6	36.2	30.8	27.9	27.1	26.2	
-65	297	312	316	311	295	264	221	178	148	119	94.1	74.1	55.7	43.8	35.0	29.5	27.5	26.2	
-60	365	382	379	368	360	335	293	245	207	170	132	100	72.3	55.1	41.3	31.9	28.2	26.3	
-55	421	431	420	400	387	366	329	283	242	203	163	124	88.7	63.2	46.3	33.7	28.2	25.9	
-50	505	506	483	448	429	412	384	341	294	253	208	160	113	75.4	53.9	36.4	28.3	25.3	
-45	513	506	482	452	440	430	410	371	327	282	237	189	141	87.0	58.9	38.6	28.4	24.8	
-40	524	505	479	460	457	457	448	417	375	326	280	233	182	104	66.4	41.8	28.6	24.1	
-35	507	492	474	467	477	490	483	449	409	362	314	268	214	126	71.7	43.8	28.8	24.0	
-30	481	473	468	479	508	540	536	497	459	415	366	321	261	158	79.5	46.7	29.1	23.8	
-25	529	523	522	536	567	605	613	581	540	485	421	364	301	191	85.3	48.3	29.3	23.9	
-20	601	600	603	622	655	702	727	707	661	591	503	428	360	241	94.0	50.7	29.7	24.0	
-15	675	680	693	724	767	816	850	826	764	670	559	468	387	263	98.5	50.6	29.0	23.6	
-10	786	801	828	878	935	987	1035	1004	918	789	644	527	426	294	105	50.5	27.9	22.9	
-5	886	905	943	1006	1073	1129	1181	1141	1032	871	701	569	450	312	108	49.7	26.9	22.0	
0	1097	1120	1168	1244	1327	1389	1431	1358	1202	983	786	629	485	330	113	47.3	24.8	20.5	
5	1300	1319	1365	1444	1525	1593	1618	1509	1308	1054	844	669	510	343	110	45.7	23.5	19.4	
10	1604	1625	1670	1750	1826	1880	1861	1697	1434	1147	920	721	539	353	109	42.6	21.4	17.8	
15	1732	1748	1791	1871	1946	1982	1930	1748	1483	1197	960	748	552	355	102	41.1	20.6	17.2	
20	1923	1931	1971	2052	2126	2136	2033	1826	1556	1271	1020	789	571	358	92.1	38.8	19.4	16.2	
25	1952	1952	1983	2052	2113	2126	2021	1816	1563	1278	1023	787	561	337	85.8	37.0	19.0	16.1	
30	1995	1984	1999	2053	2095	2111	2004	1802	1572	1288	1029	786	545	307	76.5	34.3	18.3	16.0	
35	1994	1982	2011	2086	2151	2179	2083	1900	1634	1315	1022	758	520	269	69.4	32.3	18.0	16.0	
40	1992	1980	2028	2135	2235	2281	2201	2047	1728	1355	1011	717	482	211	58.6	29.2	17.5	16.0	
45	1959	1961	2029	2151	2263	2325	2266	2100	1745	1338	975	673	431	168	51.4	26.8	16.9	15.7	
50	1911	1933	2031	2175	2306	2392	2364	2180	1771	1312	920	606	355	103	40.5	23.1	15.9	15.3	
55	1735	1774	1890	2051	2213	2312	2286	2064	1628	1194	831	538	274	79.7	35.2	20.9	15.2	14.8	
60	1470	1534	1680	1865	2074	2192	2170	1891	1414	1017	698	435	153	45.4	27.3	17.6	14.0	14.0	
65	1131	1201	1345	1534	1754	1862	1821	1559	1148	800	525	303	106	36.4	22.9	15.7	13.3	13.4	
70	623	702	843	1038	1274	1368	1299	1061	749	474	265	106	35.1	22.9	16.3	12.9	12.1	12.5	
75	393	443	532	661	816	870	810	655	463	294	167	69.8	26.0	18.0	13.7	11.6	11.3	11.8	
80	47.2	54.4	64.7	95.5	129	122	76.7	45.7	33.0	24.2	20.0	15.2	12.4	10.6	9.83	9.82	10.2	10.9	
85	30.4	34.7	40.9	59.5	79.9	75.4	48.3	29.7	22.1	16.9	14.4	11.7	10.1	9.20	8.90	9.14	9.61	10.3	
90	5.13	5.25	5.36	5.47	5.54	5.60	5.66	5.73	5.83	5.97	6.15	6.37	6.65	7.02	7.50	8.11	8.76	9.47	

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: