

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

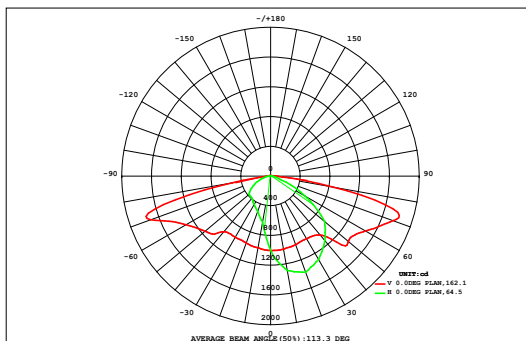
Maximum Intensity		590.4 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	143.0V x 169.8H
	At 50% of Imax	64.5V x 162.1H
	At 90% of Imax	25.6V x 157.8H
Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	957.7 lumens per klm.
	To 50% of Imax	469.9 lumens per klm.
	To 90% of Imax	53.0 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:220.9V I:0.1461A P:31.36W PF:0.9716 Freq:49.99Hz Lamp Flux:4489.67x1 lm		
NAME: LUX-AL-30-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC



DATA OF LAMP		Eff:143.16lm/W	
MODEL	LED	Imax(cd)	2651
NOMINAL POWER(W)	30	AVAILABILITY(%)	95.8
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	4300
NOMINAL FLUX(lm)	4489.67	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	4490
TEST VOLTAGE(V)	230	θ @50%(H,V)	162,65DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.03	0.12	0.44	1.05	0.95	0.55	0.53	0.56	0.59	0.60	0.59	0.58	0.71	1.40	1.21	0.49	0.14	0.04	10.6	0.00
90	0.03	0.12	0.44	1.05	0.95	0.55	0.53	0.56	0.59	0.60	0.59	0.58	0.71	1.40	1.21	0.49	0.14	0.04	10.6	0.00
80	0.04	0.78	3.85	4.44	3.21	2.47	2.48	2.58	2.73	2.80	2.74	2.68	2.90	4.08	6.12	4.43	0.88	0.05	49.3	15.3
70	0.10	3.52	14.4	14.0	10.1	9.24	9.65	9.97	10.2	10.5	10.7	10.7	10.7	13.0	19.4	15.6	3.07	0.10	175	161
60	0.19	6.98	25.0	27.9	24.6	22.7	22.7	22.7	22.4	23.0	24.3	24.8	25.4	28.5	33.2	27.6	7.88	0.26	370	370
50	0.45	11.9	29.8	35.4	36.3	34.4	32.8	31.8	31.5	32.5	34.7	37.0	39.7	42.9	41.8	31.9	10.9	0.36	516	516
40	0.52	13.2	31.0	38.5	41.2	40.0	37.7	36.4	36.5	37.3	39.1	42.5	46.2	47.7	44.0	33.4	14.6	0.68	581	580
30	0.87	15.2	29.3	36.0	39.3	39.3	38.4	39.1	40.3	41.1	41.8	43.9	47.5	47.2	42.1	32.1	14.3	0.64	588	588
20	0.71	14.0	26.1	30.9	34.4	35.0	36.0	38.3	40.1	40.7	39.8	38.6	39.9	41.1	35.8	28.8	14.9	0.91	536	536
10	0.93	13.3	20.7	23.8	26.5	27.1	30.0	33.0	34.8	35.1	33.7	31.0	29.3	32.4	28.0	23.7	12.6	0.68	437	436
0	0.62	10.6	16.6	18.4	19.4	19.9	21.5	23.2	24.3	24.4	23.5	22.0	20.4	22.2	21.1	18.7	11.3	0.81	319	319
-10	0.68	9.12	13.4	13.1	12.9	13.5	14.9	16.2	17.0	17.1	16.6	15.4	14.3	15.4	15.3	15.6	8.89	0.53	230	230
-20	0.40	6.95	11.6	9.26	9.22	10.3	12.0	13.3	14.2	14.3	13.7	12.4	11.1	10.8	10.3	12.5	7.65	0.56	180	180
-30	0.39	5.73	9.10	6.35	7.33	9.00	10.6	11.8	12.6	12.6	11.9	10.9	10.1	8.45	7.74	10.6	5.54	0.34	151	150
-40	0.20	3.76	7.78	5.19	6.09	8.03	10.1	11.0	11.6	11.6	11.2	10.4	8.94	6.85	5.93	8.08	4.27	0.30	131	128
-50	0.16	2.47	5.40	4.12	4.90	6.71	8.75	9.57	10.0	10.1	9.65	8.86	6.86	5.19	4.98	5.93	2.32	0.16	106	84.8
-60	0.08	0.96	2.95	3.05	3.26	4.31	5.51	6.26	6.65	6.65	6.24	5.69	4.52	3.53	3.41	3.03	1.14	0.11	67.3	6.51
-70	0.06	0.33	0.95	1.43	1.65	2.17	2.70	2.98	3.13	3.16	3.02	2.75	2.24	1.87	1.65	0.98	0.34	0.07	31.5	0.00
-80	0.06	0.16	0.25	0.45	0.61	0.75	0.89	0.92	0.94	0.95	0.95	0.92	0.83	0.70	0.50	0.29	0.18	0.07	10.4	0.00
-90	0.06	0.16	0.25	0.45	0.61	0.75	0.89	0.92	0.94	0.95	0.95	0.92	0.83	0.70	0.50	0.29	0.18	0.07	10.4	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	6.48	119	249	273	282	286	297	310	319	325	324	321	322	333	323	274	121	6.68	4490	---
Φ a	4.47	115	244	261	266	271	283	295	305	310	309	307	307	318	313	270	117	4.31	---	4300

one-half-peak spread: U:28.4,D:36.5 , L:8.2,R:9.9

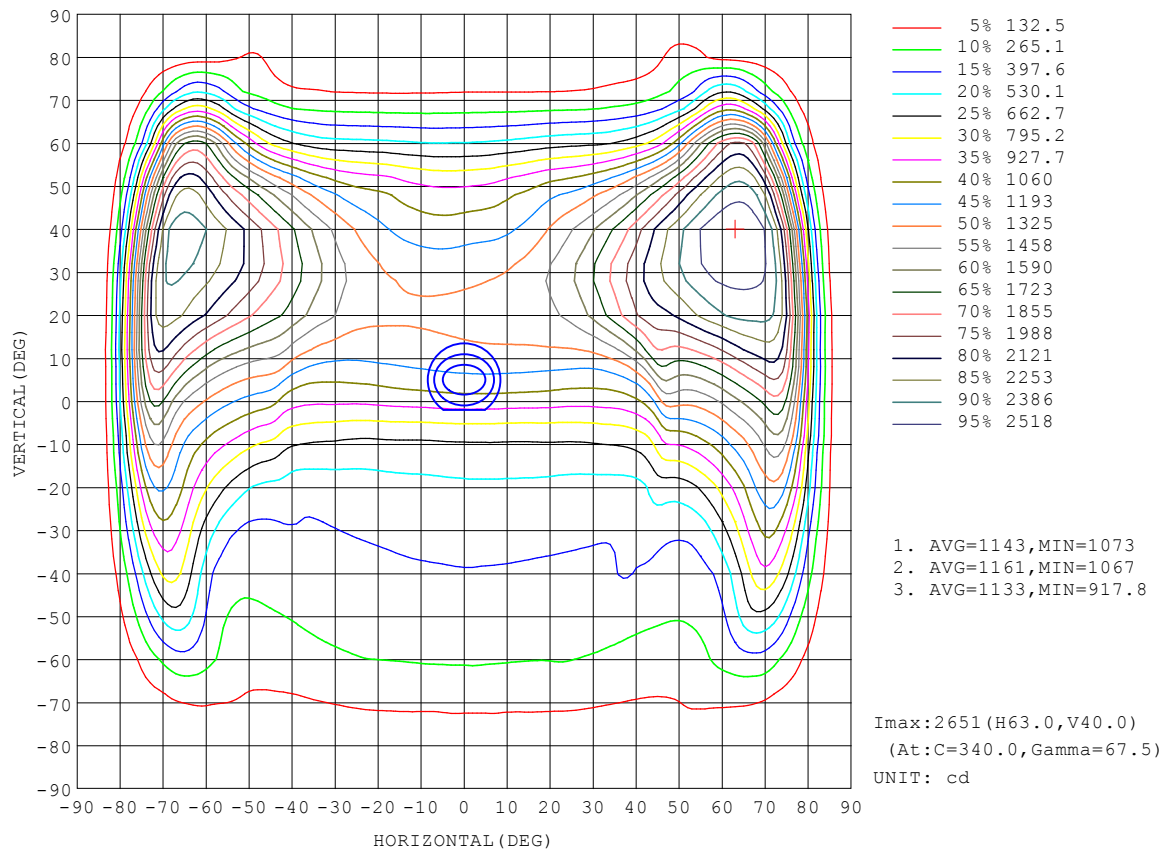
NEMA Beam Type: Type 7

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:0.1461A P:31.36W PF:0.9716 Freq:49.99Hz Lamp Flux:4489.67x1 lm		
NAME: LUX-AL-30-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC

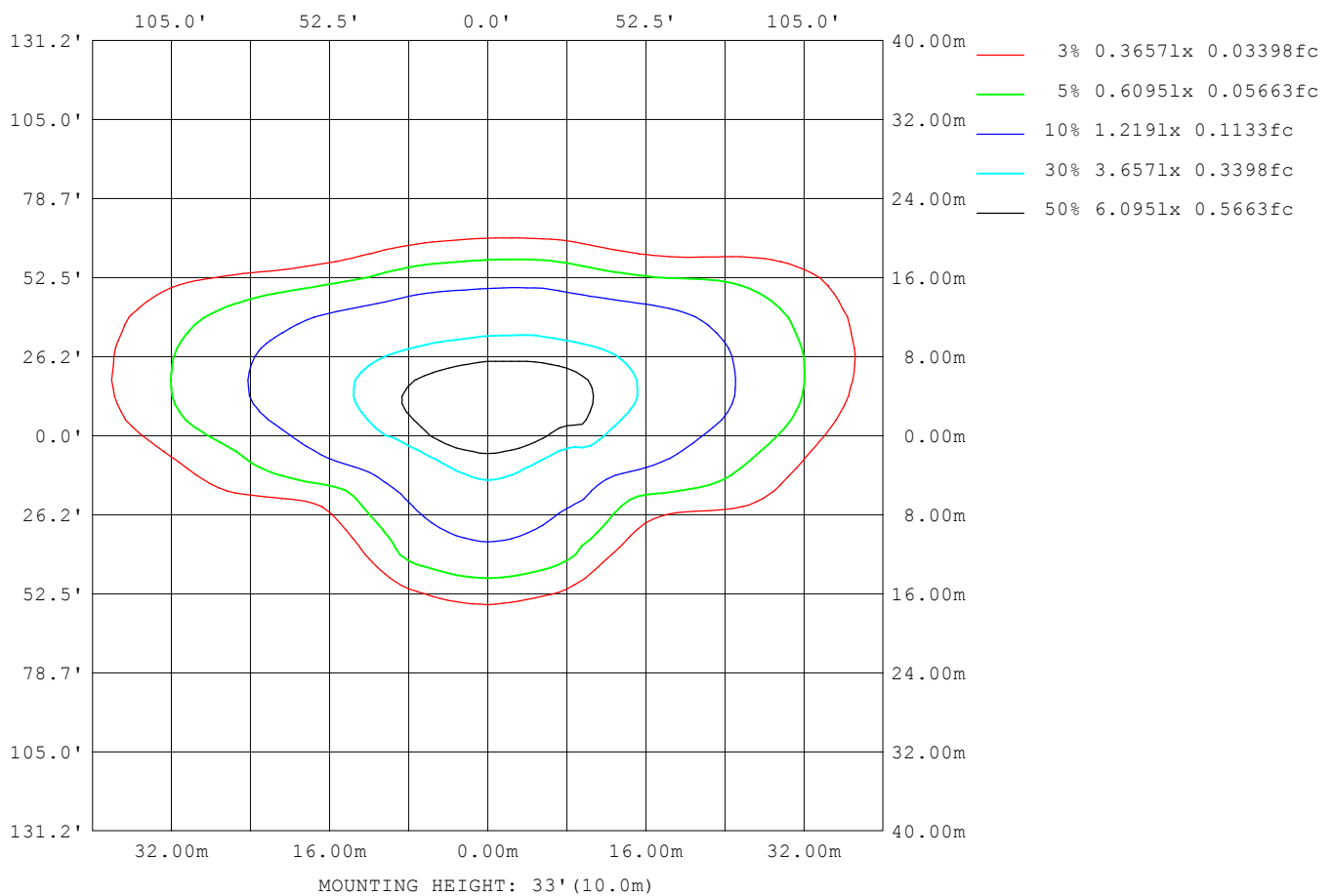


H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

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

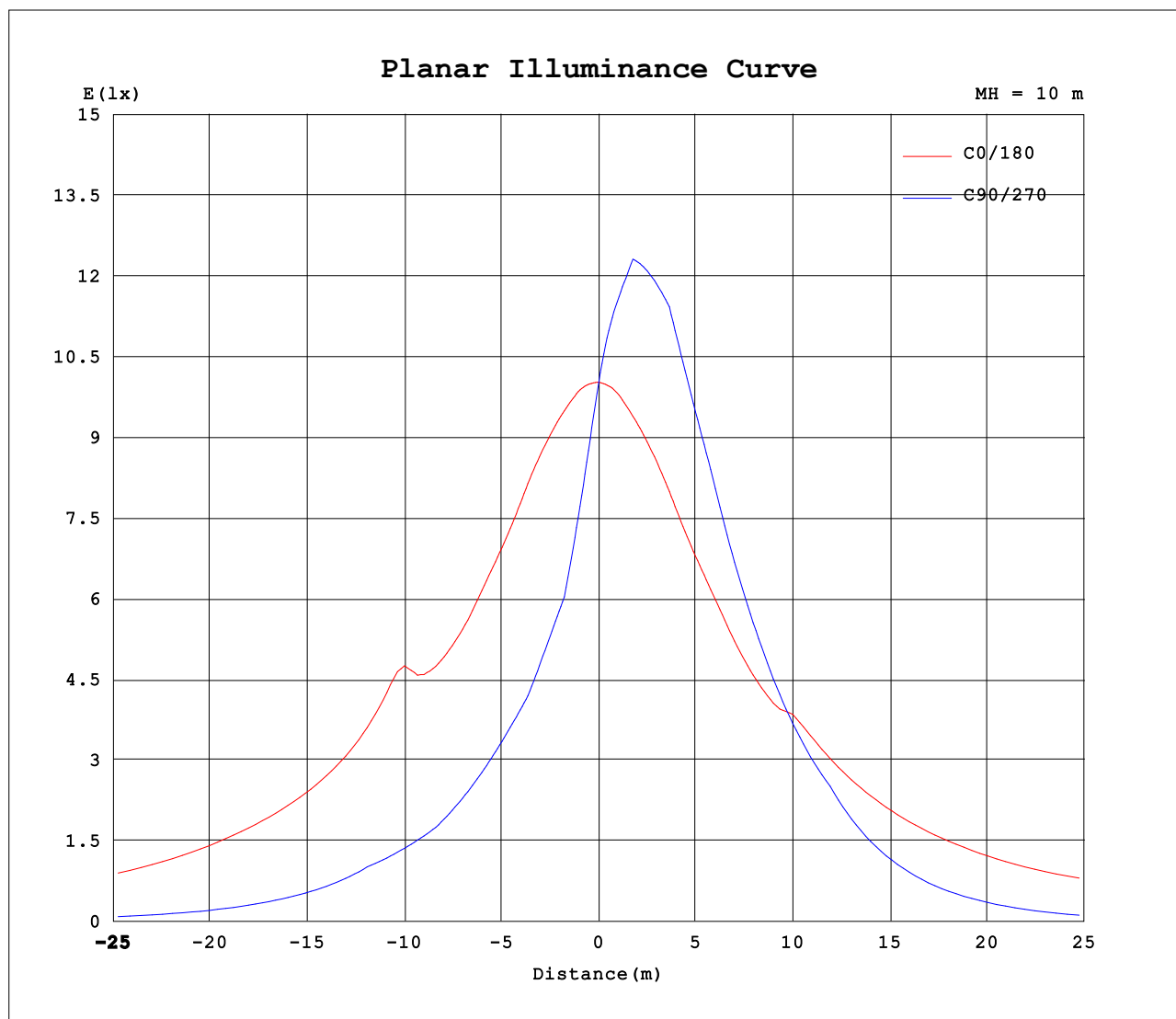
Test:U:220.9V I:0.1461A P:31.36W PF:0.9716 Freq:49.99Hz Lamp Flux:4489.67x1 lm		
NAME: LUX-AL-30-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC



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



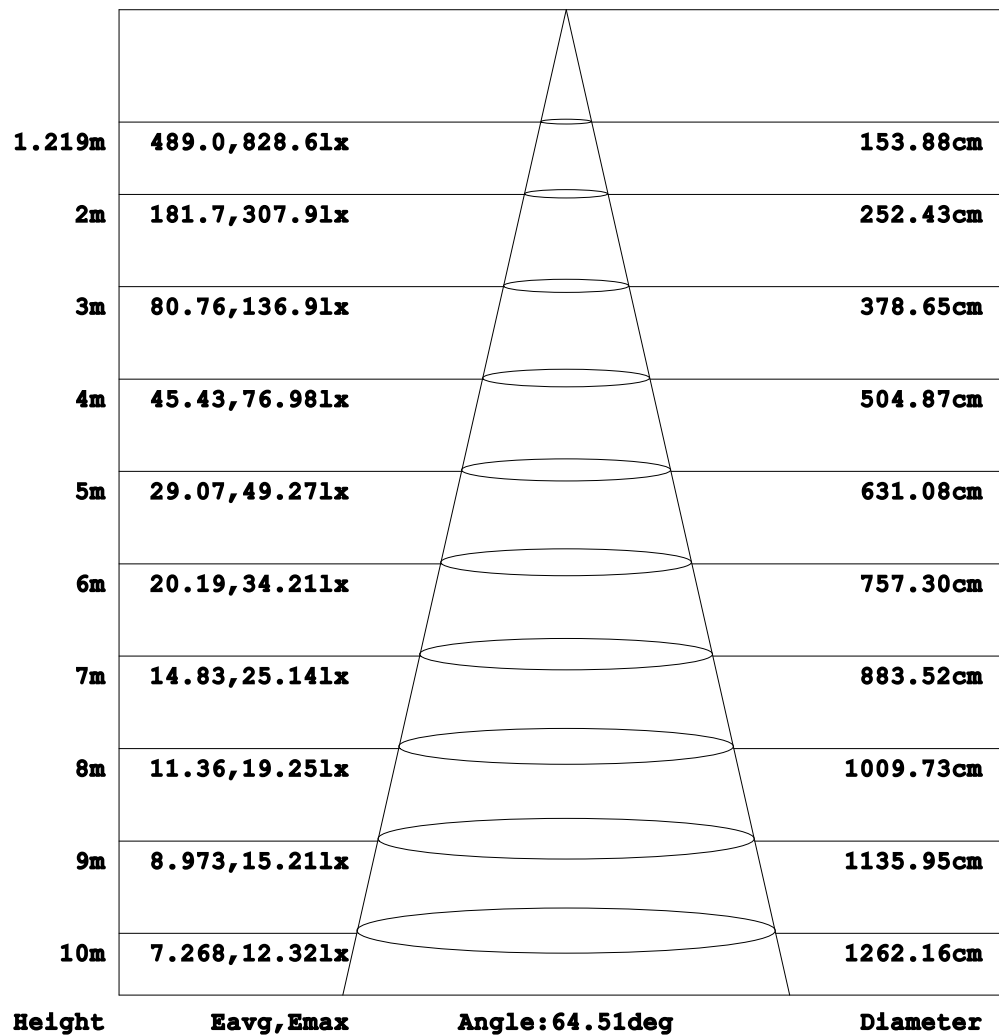
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-26

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:220.9V I:0.1461A P:31.36W PF:0.9716 Freq:49.99Hz Lamp Flux:4489.67x1 lm		
NAME: LUX-AL-30-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC

Flux out:926.7 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:220.9V I:0.1461A P:31.36W PF:0.9716 Freq:49.99Hz Lamp Flux:4489.67x1 lm		
NAME: LUX-AL-30-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC

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	22.3	21.7	20.5	19.4	18.5	17.9	17.6	17.5	17.5	17.6	17.7	17.8	17.8	17.6	17.2	16.8	16.5	16.2	16.3
-85	22.2	21.9	21.1	20.5	20.2	20.8	23.3	26.3	26.4	26.9	27.7	29.2	30.0	30.5	29.9	29.5	29.3	29.2	29.3
-80	22.6	22.2	22.0	22.1	22.4	23.6	28.8	37.8	39.1	40.8	41.9	44.9	46.9	50.0	49.3	48.6	48.6	48.6	48.8
-75	22.3	22.6	23.9	32.9	48.3	63.1	72.0	75.7	70.0	68.6	71.0	77.2	82.4	88.1	90.2	91.0	91.2	92.2	93.4
-70	22.0	24.1	32.9	63.7	105	132	134	129	112	111	119	130	140	148	152	155	155	161	160
-65	22.1	26.0	53.2	124	193	217	188	156	140	145	154	167	180	194	198	202	204	209	209
-60	21.5	24.9	52.7	158	285	354	303	226	178	189	202	217	233	254	266	270	276	280	281
-55	21.6	26.4	75.0	225	395	450	338	240	205	216	230	251	275	302	310	312	316	319	322
-50	23.4	44.5	185	425	611	527	317	246	248	263	283	317	355	380	375	375	377	379	384
-45	24.0	52.5	227	515	705	569	342	270	267	282	301	326	354	374	373	376	379	382	386
-40	22.9	33.6	177	500	814	750	466	320	294	304	322	338	344	361	369	374	381	385	390
-35	23.0	36.3	213	591	894	804	520	363	321	329	349	354	363	379	387	395	403	408	412
-30	25.5	92.4	428	895	997	765	525	389	359	375	384	384	399	409	419	430	438	444	447
-25	24.5	102	484	992	1063	832	610	472	420	420	408	411	423	432	442	453	460	467	471
-20	21.4	41.8	340	954	1209	1038	806	648	537	493	454	447	458	463	472	484	490	497	504
-15	20.1	42.7	383	1063	1297	1092	894	755	649	600	538	525	527	526	531	540	543	550	555
-10	19.0	142	749	1419	1319	1107	978	877	787	722	653	638	626	618	622	623	624	631	632
-5	17.6	146	805	1531	1418	1209	1093	1004	926	850	775	758	748	741	748	751	754	762	764
0	15.3	44.6	528	1492	1721	1452	1314	1217	1152	1104	978	950	951	949	960	974	982	995	1002
5	14.4	43.6	548	1585	1871	1608	1451	1347	1278	1240	1102	1051	1048	1056	1070	1091	1106	1121	1130
10	13.6	163	1020	2003	2002	1794	1631	1537	1478	1438	1306	1234	1217	1225	1244	1253	1268	1281	1291
15	13.2	157	1007	2044	2124	1950	1804	1697	1617	1556	1432	1345	1297	1281	1287	1292	1303	1316	1326
20	12.5	38.6	547	1719	2320	2239	2113	1987	1871	1766	1671	1548	1459	1379	1355	1350	1353	1363	1374
25	12.4	37.2	525	1691	2344	2303	2192	2073	1959	1840	1726	1594	1487	1398	1355	1336	1328	1331	1342
30	12.1	134	922	2065	2419	2370	2269	2160	2037	1894	1749	1606	1484	1394	1335	1302	1286	1286	1298
35	12.0	116	823	1950	2421	2401	2295	2167	2029	1874	1719	1570	1443	1348	1281	1240	1220	1220	1235
40	12.1	24.1	340	1365	2260	2464	2388	2243	2084	1914	1741	1576	1433	1315	1229	1164	1129	1116	1133
45	12.1	21.5	290	1196	2104	2385	2292	2111	1940	1765	1598	1443	1317	1222	1159	1101	1063	1047	1058
50	11.8	54.5	402	1354	2106	2253	2051	1832	1650	1476	1324	1200	1114	1069	1040	985	953	941	952
55	11.8	42.2	310	1065	1847	2064	1871	1576	1352	1175	1048	953	897	867	846	809	785	778	786
60	12.1	13.3	87.4	386	1144	1719	1719	1349	1013	779	665	600	573	566	559	548	536	532	535
65	12.2	12.9	63.2	283	818	1257	1276	983	716	553	467	425	405	399	394	387	380	379	382
70	12.0	13.5	52.9	201	428	623	560	342	248	191	164	160	151	148	145	145	147	150	153
75	12.1	12.8	36.8	128	273	400	366	255	206	142	117	112	105	102	100	100	102	104	106
80	12.7	11.9	12.2	14.0	31.2	57.5	71.1	105	145	97.4	51.6	40.6	36.7	34.5	33.6	33.4	34.3	34.6	35.4
85	13.0	12.1	12.0	12.7	22.7	38.2	46.0	66.1	90.0	61.0	33.3	26.6	24.2	22.9	22.3	22.1	22.7	22.8	23.3
90	13.1	12.2	11.3	10.5	9.61	8.80	8.03	7.32	6.71	6.21	5.84	5.61	5.49	5.40	5.34	5.29	5.25	5.23	5.21

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:0.1461A P:31.36W PF:0.9716 Freq:49.99Hz Lamp Flux:4489.67x1 lm		
NAME: LUX-AL-30-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC

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	16.5	16.7	17.1	17.6	18.1	18.4	18.6	18.5	18.2	17.9	17.8	18.1	19.0	20.3	21.8	23.2	23.9	23.7	
-85	29.8	30.1	30.5	31.1	31.7	31.3	31.0	30.9	30.5	29.4	27.3	24.0	22.5	22.8	23.7	24.4	24.5	23.8	
-80	49.3	50.0	50.6	50.9	51.6	51.6	49.2	49.3	48.7	48.6	43.3	36.0	29.5	26.7	26.5	26.3	26.1	24.1	
-75	93.7	92.7	92.8	92.1	91.5	88.1	83.0	79.4	77.5	82.5	85.7	79.0	71.7	59.6	43.2	32.2	27.5	24.4	
-70	161	156	156	153	148	139	130	122	123	146	147	141	127	92.5	55.2	33.7	27.6	23.6	
-65	207	202	201	201	193	179	168	157	154	170	192	214	218	175	101	47.8	29.0	23.7	
-60	279	274	269	269	267	248	232	216	204	197	233	304	351	341	221	101	37.5	26.1	
-55	321	318	314	314	313	297	270	250	235	228	257	332	443	454	307	139	44.9	26.7	
-50	383	384	382	382	377	354	314	292	276	278	317	446	634	575	328	125	35.4	24.6	
-45	385	384	381	380	376	362	352	326	303	301	344	481	705	685	411	157	38.6	25.0	
-40	387	385	381	378	377	374	390	390	356	335	360	450	692	898	689	312	83.3	29.2	
-35	410	407	402	397	393	389	396	414	389	367	398	517	764	974	778	358	94.3	29.3	
-30	443	438	431	421	414	407	411	472	423	421	508	704	975	1078	741	271	49.0	26.5	
-25	468	464	458	448	441	436	438	489	490	498	599	789	1048	1164	835	305	51.2	25.6	
-20	505	504	501	494	484	480	478	487	594	592	678	839	1047	1267	1167	582	135	27.1	
-15	557	555	554	551	545	546	550	568	691	725	809	956	1143	1348	1270	634	140	25.6	
-10	634	632	636	636	639	651	666	722	914	949	1051	1195	1355	1528	1198	421	53.1	21.5	
-5	763	758	758	756	756	767	784	852	1087	1116	1198	1323	1467	1635	1300	456	54.5	20.4	
0	1003	996	991	984	971	974	985	1037	1256	1367	1381	1478	1607	1754	1702	848	163	20.5	
5	1133	1128	1120	1108	1092	1088	1106	1183	1476	1514	1534	1634	1762	1906	1820	902	168	20.0	
10	1294	1291	1287	1282	1271	1300	1401	1639	1784	1755	1830	1958	2089	2156	1640	522	56.5	18.6	
15	1332	1334	1339	1351	1381	1455	1589	1796	1909	1932	2027	2136	2226	2245	1682	527	55.2	18.7	
20	1385	1394	1409	1436	1500	1623	1795	1978	2080	2149	2275	2374	2429	2428	2123	997	166	20.1	
25	1354	1373	1404	1455	1537	1671	1844	2021	2147	2247	2370	2454	2488	2469	2103	945	152	20.2	
30	1318	1359	1429	1523	1648	1813	1987	2150	2308	2445	2543	2581	2569	2443	1631	450	44.0	19.6	
35	1251	1293	1367	1467	1588	1744	1916	2098	2280	2436	2556	2609	2590	2402	1542	410	41.2	19.5	
40	1146	1171	1236	1336	1451	1579	1738	1931	2154	2349	2522	2635	2648	2510	1877	671	101	20.1	
45	1073	1106	1166	1254	1337	1443	1581	1758	1975	2190	2388	2530	2563	2380	1661	555	85.1	19.6	
50	979	1029	1090	1143	1191	1277	1399	1575	1800	2049	2269	2424	2384	1924	885	207	25.7	18.7	
55	807	845	891	932	966	1024	1116	1258	1466	1759	2054	2250	2186	1614	686	165	23.3	18.1	
60	544	560	583	607	624	636	668	738	872	1160	1578	1912	1997	1510	635	189	33.1	17.0	
65	388	397	411	427	438	448	475	523	623	827	1163	1459	1469	1065	460	137	27.0	16.3	
70	153	153	154	157	161	174	189	214	280	385	669	789	561	309	131	31.6	16.3	15.7	
75	106	106	107	109	112	122	135	157	226	304	451	507	363	202	85.2	24.9	15.4	15.2	
80	35.4	35.4	36.1	36.1	37.2	41.1	49.4	63.1	103	187	153	93.4	75.0	52.5	22.1	15.5	14.2	14.1	
85	23.3	23.3	23.7	23.7	24.4	26.8	31.8	40.2	64.3	115	94.8	59.3	48.6	35.5	17.7	14.0	13.6	13.8	
90	5.20	5.20	5.21	5.25	5.33	5.47	5.65	5.93	6.38	6.97	7.65	8.48	9.46	10.4	11.4	12.2	13.0	13.5	

**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:**