

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	341.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	160.7V x 162.3H
	At 50% of Imax	151.4V x 148.2H
	At 90% of Imax	142.6V x 142.8H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	986.7 lumens per klm.
	To 50% of Imax	746.5 lumens per klm.
	To 90% of Imax	83.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

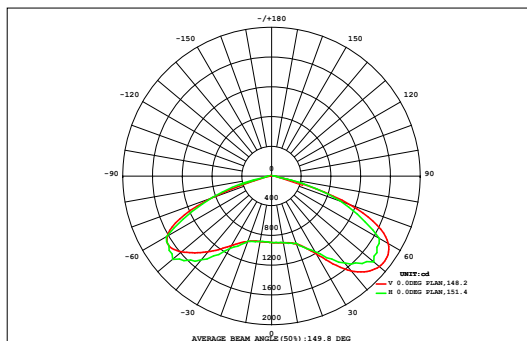
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:0.2354A P:51.47W PF:0.9897 Freq:49.99Hz Lamp Flux:7579.2x1 lm		
NAME: LUX-AL-50-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:VSM



DATA OF LAMP		Eff:147.24lm/W	
MODEL	LED	Imax(cd)	2589
NOMINAL POWER(W)	50	AVAILABILITY(%)	98.8
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	7486
NOMINAL FLUX(lm)	7579.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	7579
TEST VOLTAGE(V)	230	θ @50% (H,V)	148,151DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.05	0.16	0.33	0.65	1.05	1.61	1.77	1.78	1.74	1.76	1.92	1.90	1.65	1.00	0.63	0.33	0.16	0.05	18.5	0.00
90	0.05	0.23	0.88	3.54	11.7	18.1	18.7	17.2	16.2	16.4	18.1	19.6	18.2	11.0	3.38	0.94	0.27	0.06	174	162
80	0.05	0.50	3.17	15.9	35.1	45.6	45.6	42.6	40.7	42.0	46.0	49.6	46.4	31.5	12.3	2.41	0.46	0.07	460	455
70	0.06	0.75	6.79	27.7	48.7	58.0	58.1	55.2	52.9	54.5	59.2	63.3	61.6	49.3	27.1	6.86	0.87	0.09	631	628
60	0.09	1.51	13.6	35.1	49.8	54.4	53.8	51.4	50.2	52.9	58.9	64.0	62.5	52.0	32.2	10.5	1.17	0.10	644	642
50	0.09	1.88	15.4	33.9	44.3	46.4	44.6	42.1	40.9	42.4	47.1	54.3	56.8	50.5	35.8	16.0	2.20	0.14	575	573
40	0.14	3.35	18.8	32.7	37.9	37.3	34.5	32.6	32.2	33.1	36.4	43.8	49.8	46.4	34.5	16.4	2.36	0.13	493	491
30	0.12	3.13	17.9	30.5	34.0	32.6	29.7	28.4	28.2	28.6	29.7	33.9	41.7	42.4	34.2	18.9	3.65	0.17	438	437
20	0.18	4.36	19.0	28.7	30.7	29.0	27.0	26.7	27.2	27.5	28.2	31.5	38.7	40.0	32.6	17.9	3.17	0.16	412	411
10	0.15	3.45	17.9	28.7	31.0	29.5	27.3	26.6	26.9	27.2	27.6	30.2	37.0	39.4	32.9	19.1	4.05	0.20	409	408
0	0.19	4.03	18.7	29.8	32.5	31.0	28.6	27.6	27.6	28.1	29.5	34.3	42.0	42.2	33.5	17.6	2.93	0.17	430	429
-10	0.15	2.57	16.9	31.7	37.3	36.7	33.8	31.7	31.0	31.7	34.5	40.9	47.4	45.6	35.1	18.1	3.18	0.20	478	477
-20	0.16	2.46	16.4	33.6	42.6	43.9	41.9	39.7	39.0	41.1	46.3	53.6	55.9	49.5	34.4	14.3	1.82	0.16	557	555
-30	0.11	1.23	11.2	32.3	48.1	53.5	52.8	50.1	48.5	50.4	55.8	61.0	60.9	52.2	33.9	12.3	1.56	0.16	626	624
-40	0.11	0.97	7.72	28.4	48.1	56.5	56.4	53.3	51.5	53.4	58.4	62.4	60.5	47.9	25.2	5.84	0.84	0.13	618	615
-50	0.10	0.51	2.42	13.2	32.1	43.7	44.6	41.2	38.8	39.2	42.2	45.5	44.2	32.1	14.0	2.90	0.63	0.12	438	433
-60	0.10	0.37	1.04	3.39	11.0	16.7	17.0	15.5	14.6	14.9	16.2	17.5	16.1	9.20	2.52	0.93	0.39	0.11	158	143
-70	0.10	0.30	0.51	0.78	1.04	1.43	1.63	1.70	1.71	1.76	1.80	1.77	1.56	1.15	0.91	0.58	0.33	0.11	19.2	0.00
-80	0.10	0.30	0.51	0.78	1.04	1.43	1.63	1.70	1.71	1.76	1.80	1.77	1.56	1.15	0.91	0.58	0.33	0.11	19.2	0.00
-90	0.10	0.30	0.51	0.78	1.04	1.43	1.63	1.70	1.71	1.76	1.80	1.77	1.56	1.15	0.91	0.58	0.33	0.11	19.2	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.00	31.7	189	410	577	636	618	585	570	587	638	709	743	644	425	182	30.0	2.32	7579	---
Φ a	0.00	23.5	182	405	573	632	613	580	565	582	632	704	739	640	419	175	21.1	0.00	---	7486

one-half-peak spread: U:25.4,D:26.1 , L:16.9,R:22.4

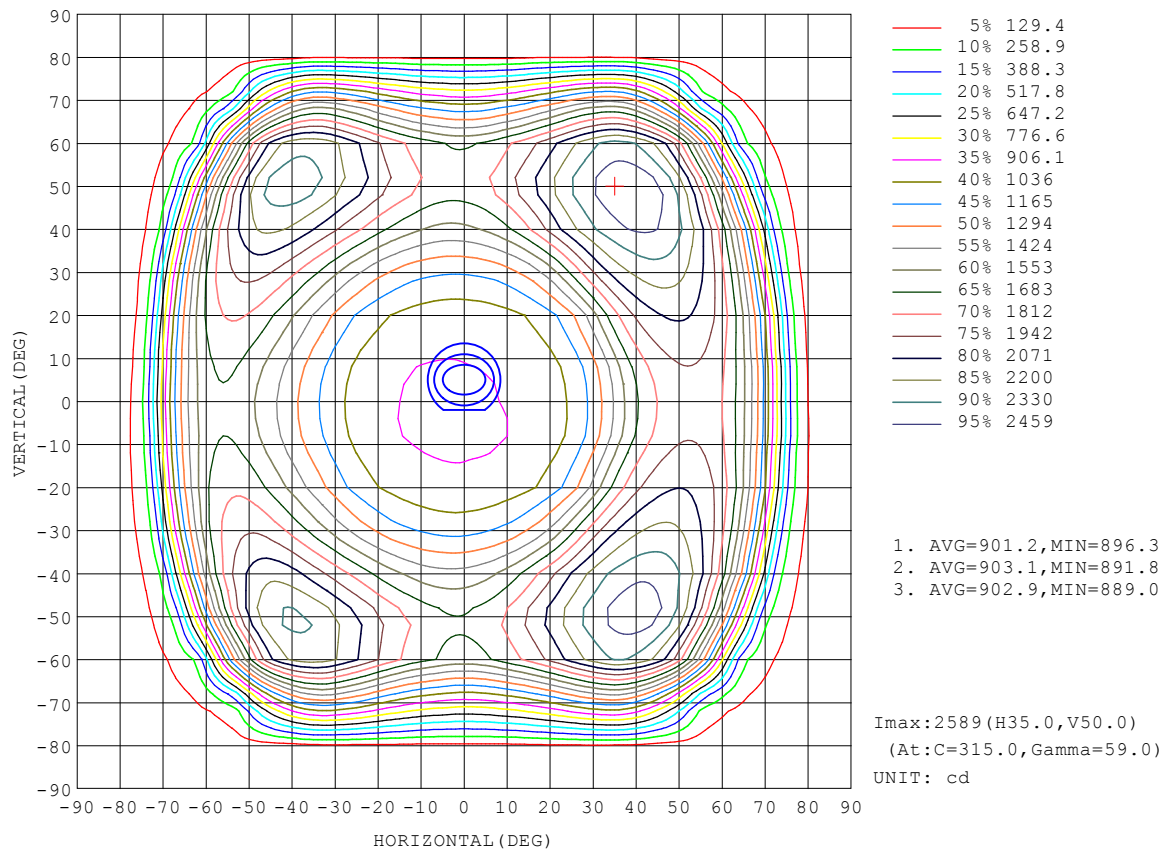
NEMA Beam Type: Type 7

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:0.2354A P:51.47W PF:0.9897 Freq:49.99Hz Lamp Flux:7579.2x1 lm		
NAME: LUX-AL-50-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:VSM

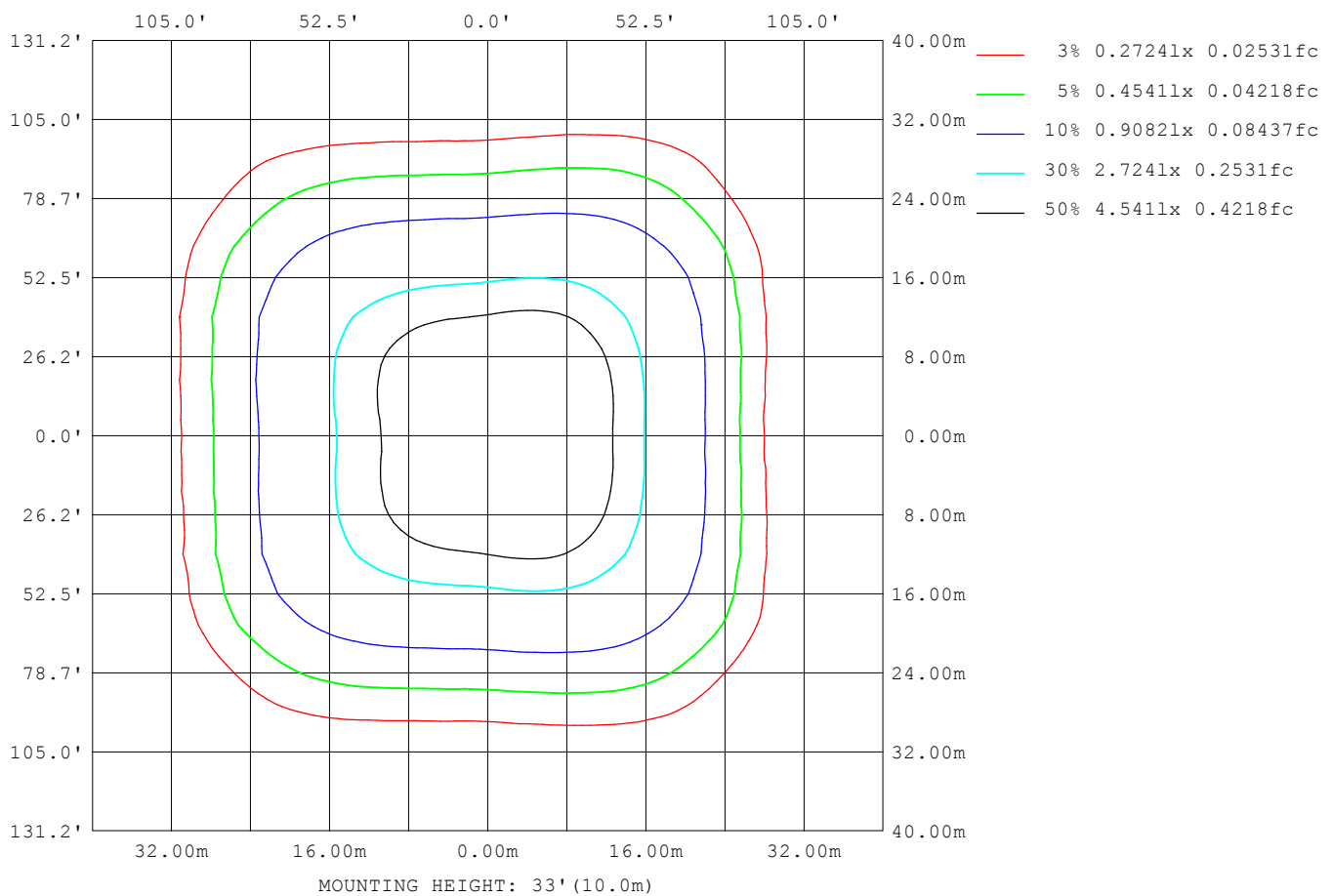


H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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

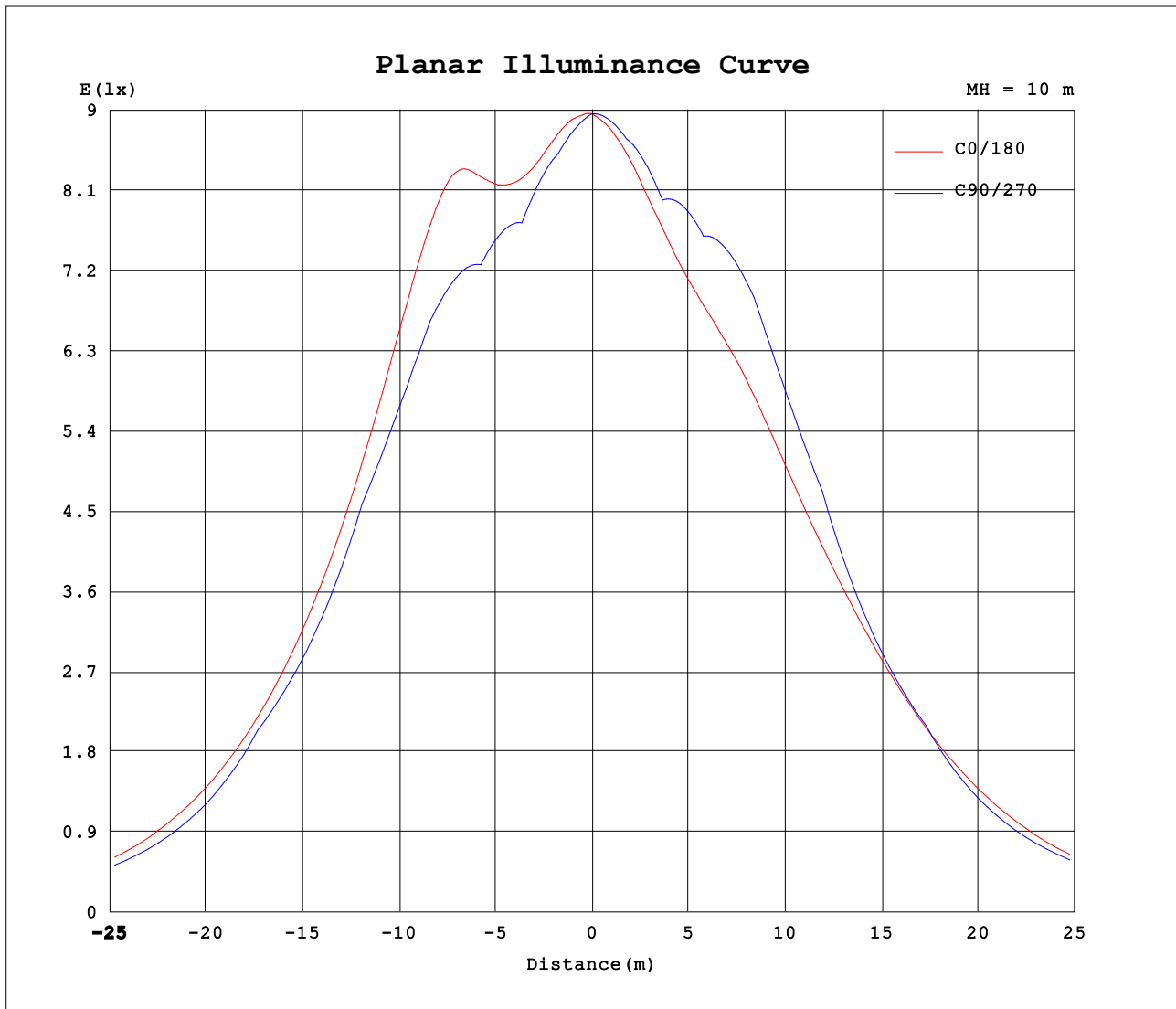
Test:U:221.0V I:0.2354A P:51.47W PF:0.9897 Freq:49.99Hz Lamp Flux:7579.2x1 lm		
NAME: LUX-AL-50-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:VSM



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

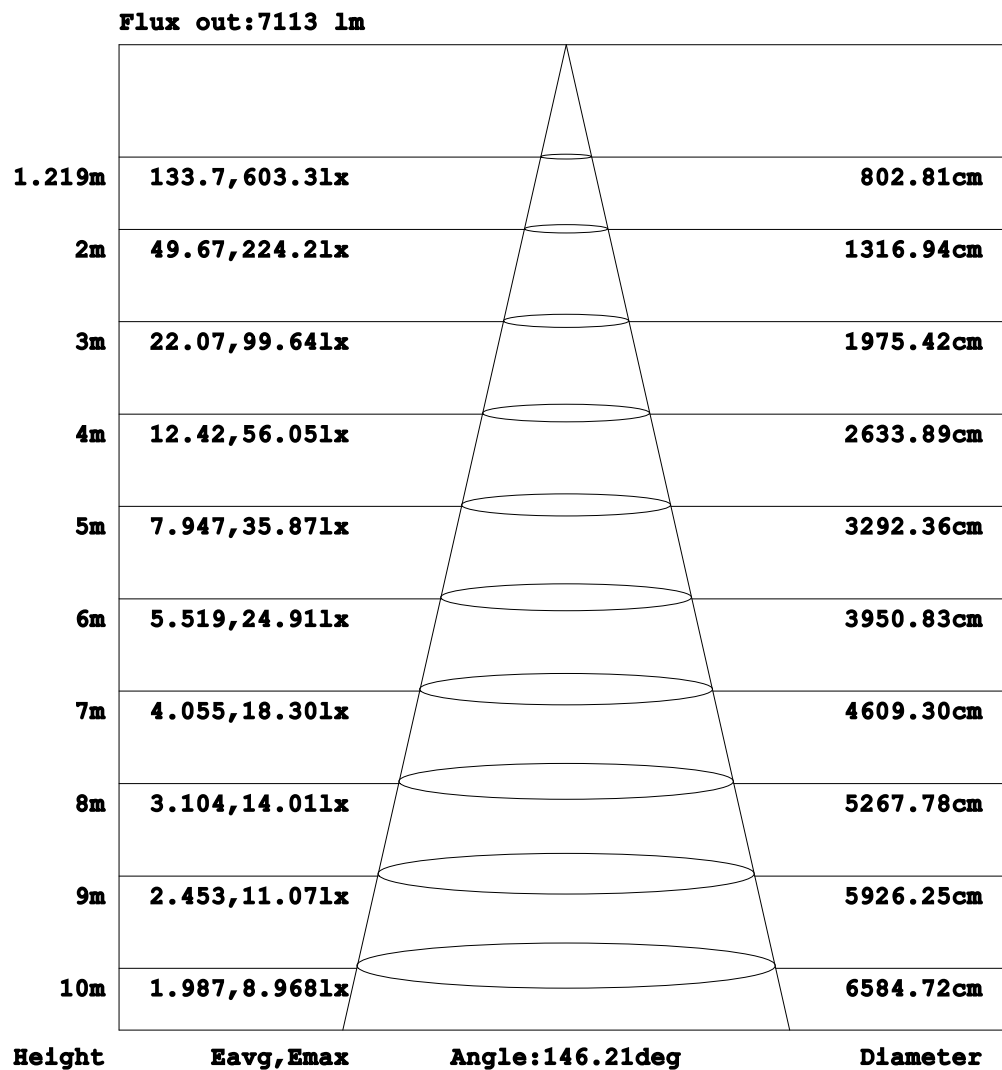


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:0.2354A P:51.47W PF:0.9897 Freq:49.99Hz Lamp Flux:7579.2x1 lm		
NAME: LUX-AL-50-TypeV-VSM-C14680	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	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:0.2354A P:51.47W PF:0.9897 Freq:49.99Hz Lamp Flux:7579.2x1 lm								
NAME: LUX-AL-50-TypeV-VSM-C14680					TYPE:LED			WEIGHT:
SPEC.:					DIM.: 0.3*0.25*0.1			SERIAL No.:
MFR.:					SUR.:0.1*0.1			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	35.0	36.8	37.9	38.7	38.8	38.6	38.7	38.9	39.1	39.2	39.3	39.4	39.2	39.0	38.9	38.9	39.1	39.6	40.2
-85	34.8	36.3	37.5	38.7	39.6	41.4	45.4	50.1	53.3	56.6	63.2	66.8	66.8	66.2	66.0	64.1	62.3	63.3	64.3
-80	34.4	34.8	36.0	37.7	39.5	42.1	48.6	59.9	69.5	78.5	85.8	106	108	108	107	106	98.6	97.7	99.5
-75	34.3	34.7	36.4	40.1	49.5	63.9	85.1	118	236	383	493	558	560	532	491	455	424	408	399
-70	34.1	35.9	39.7	54.5	83.0	121	172	334	711	1007	1201	1255	1200	1110	1010	935	886	853	854
-65	33.6	36.1	44.4	69.4	116	195	447	778	1194	1472	1625	1651	1573	1465	1352	1263	1207	1168	1171
-60	33.0	33.8	39.6	64.6	115	202	492	1111	1648	2048	2222	2265	2208	2081	1943	1818	1725	1662	1637
-55	31.9	33.3	42.8	77.6	148	328	756	1351	1836	2159	2287	2295	2218	2091	1959	1838	1749	1689	1670
-50	30.7	38.2	73.4	143	319	896	1502	1982	2263	2374	2368	2280	2154	2034	1910	1817	1746	1717	1740
-45	30.3	40.0	82.6	168	449	1044	1598	1999	2220	2285	2242	2142	2018	1899	1784	1698	1636	1614	1641
-40	28.3	32.5	58.3	126	309	901	1475	1878	2092	2169	2118	2005	1885	1768	1653	1561	1494	1463	1468
-35	28.4	33.1	64.1	138	402	1008	1538	1873	2027	2053	1977	1856	1730	1609	1498	1413	1353	1324	1326
-30	30.3	49.6	120	318	935	1468	1799	1918	1914	1815	1687	1551	1418	1304	1216	1158	1123	1110	1126
-25	30.5	51.1	125	361	994	1496	1782	1864	1829	1717	1585	1448	1316	1209	1132	1080	1049	1038	1049
-20	29.3	34.6	81.2	182	690	1290	1657	1782	1763	1650	1515	1376	1237	1120	1038	985	952	934	930
-15	28.8	33.9	83.5	198	738	1312	1643	1746	1707	1589	1454	1318	1186	1077	1002	957	930	916	914
-10	28.9	55.4	142	531	1164	1541	1685	1662	1550	1417	1283	1156	1048	970	926	902	892	888	892
-5	27.5	53.9	141	541	1174	1542	1672	1638	1524	1392	1261	1134	1030	957	916	895	889	886	891
0	25.0	28.9	84.1	240	842	1366	1623	1665	1584	1460	1329	1198	1079	991	937	906	894	891	893
5	23.7	27.0	81.2	223	828	1361	1628	1678	1600	1477	1344	1209	1089	998	941	910	897	893	897
10	21.3	46.5	131	533	1173	1563	1710	1687	1580	1448	1309	1173	1062	985	939	915	905	904	911
15	20.1	43.4	125	492	1144	1568	1745	1741	1647	1517	1376	1236	1117	1031	977	945	930	926	933
20	18.9	20.5	66.4	169	705	1313	1698	1822	1803	1699	1565	1417	1274	1155	1070	1015	980	962	961
25	18.4	19.8	62.6	158	647	1272	1695	1861	1875	1796	1672	1532	1391	1267	1172	1107	1066	1044	1042
30	16.8	33.5	103	324	966	1524	1853	1971	1969	1880	1756	1622	1486	1367	1273	1211	1175	1161	1174
35	16.7	31.0	94.5	275	852	1446	1834	2019	2069	2010	1901	1775	1646	1527	1429	1361	1317	1304	1323
40	17.3	17.9	43.5	111	322	948	1539	1943	2158	2226	2176	2073	1957	1838	1724	1630	1559	1521	1526
45	17.3	17.7	39.3	101	271	795	1413	1883	2172	2296	2282	2197	2082	1963	1845	1746	1668	1622	1624
50	16.5	22.9	60.5	137	344	962	1583	2060	2340	2437	2415	2319	2194	2078	1957	1866	1790	1765	1795
55	16.5	21.4	51.2	115	270	714	1323	1846	2194	2348	2366	2296	2174	2049	1927	1831	1759	1727	1750
60	17.1	17.0	23.2	52.2	109	202	548	1180	1729	2095	2263	2290	2219	2089	1954	1839	1751	1688	1669
65	17.2	16.9	21.5	42.8	87.5	159	388	808	1279	1655	1866	1937	1887	1777	1655	1550	1468	1415	1394
70	16.8	17.8	22.9	42.6	77.2	125	195	434	857	1174	1372	1409	1344	1248	1148	1067	1018	984	987
75	17.2	17.8	21.1	33.7	56.0	87.9	136	284	542	736	866	892	852	794	734	682	650	631	632
80	17.9	17.6	18.0	19.1	21.5	26.9	37.9	52.8	61.1	73.8	86.9	114	115	114	113	112	99.3	98.8	101
85	18.4	18.2	18.6	19.3	20.7	24.1	30.8	39.6	44.7	52.2	60.0	76.4	76.7	75.8	75.3	74.5	66.9	66.6	67.7
90	19.2	19.3	19.5	19.6	19.7	19.9	20.0	20.0	19.9	19.8	19.6	19.3	19.1	18.8	18.6	18.4	18.4	18.4	18.4

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.2354A P:51.47W PF:0.9897 Freq:49.99Hz Lamp Flux:7579.2x1 lm																		
NAME: LUX-AL-50-TypeV-VSM-C14680									TYPE:LED					WEIGHT:				
SPEC.:									DIM.: 0.3*0.25*0.1					SERIAL No.:				
MFR.:									SUR.:0.1*0.1					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	40.9	41.5	42.1	42.7	43.2	43.5	43.7	43.6	43.0	42.0	41.2	40.2	40.0	40.4	40.5	40.1	38.9	37.2	
-85	65.1	66.2	70.0	71.8	72.7	72.8	71.0	62.9	58.2	54.0	50.5	45.9	43.0	42.1	41.4	40.5	39.2	37.6	
-80	101	102	107	113	116	117	116	108	86.0	77.5	69.6	60.3	51.3	46.0	43.8	42.2	40.8	39.1	
-75	405	422	448	481	518	550	561	520	419	295	156	102	75.8	60.8	50.8	44.3	41.6	39.5	
-70	886	933	1002	1085	1173	1226	1193	1021	750	408	195	131	93.4	69.3	51.8	44.2	40.9	39.3	
-65	1216	1282	1370	1474	1584	1659	1646	1501	1247	878	530	260	137	88.5	60.8	46.5	41.2	39.1	
-60	1666	1749	1847	1973	2117	2249	2334	2296	2148	1852	1374	789	303	162	96.8	62.4	45.4	40.1	
-55	1706	1794	1906	2039	2187	2318	2409	2402	2287	2031	1596	1041	506	217	114	69.9	46.7	39.7	
-50	1818	1937	2080	2231	2373	2484	2556	2536	2398	2094	1637	1059	459	189	99.1	58.4	41.6	37.4	
-45	1716	1834	1983	2142	2296	2418	2497	2496	2393	2141	1744	1216	620	239	109	63.1	41.8	36.8	
-40	1513	1603	1738	1904	2078	2241	2362	2429	2427	2335	2105	1737	1236	613	216	102	54.4	38.4	
-35	1363	1440	1558	1716	1906	2095	2241	2328	2350	2285	2095	1779	1315	712	250	108	56.3	38.4	
-30	1168	1245	1369	1557	1789	1995	2137	2218	2231	2142	1954	1620	1107	486	150	80.0	42.7	35.9	
-25	1083	1144	1244	1403	1620	1846	2020	2125	2162	2106	1950	1653	1170	555	167	83.5	42.8	36.0	
-20	940	967	1013	1095	1238	1464	1720	1910	2023	2068	2021	1868	1550	1046	418	129	64.0	38.4	
-15	922	944	982	1052	1178	1381	1632	1834	1959	2016	1986	1851	1552	1066	440	130	63.6	37.4	
-10	901	923	961	1039	1178	1397	1643	1815	1917	1945	1884	1685	1301	723	214	88.5	40.3	34.6	
-5	899	917	950	1021	1149	1352	1597	1778	1885	1919	1869	1688	1318	747	224	88.0	38.9	33.3	
0	899	910	930	973	1059	1211	1439	1664	1815	1892	1897	1812	1569	1120	493	129	59.2	32.1	
5	902	913	935	979	1068	1223	1455	1680	1829	1904	1906	1818	1573	1124	492	127	57.6	30.4	
10	921	943	984	1064	1203	1425	1674	1844	1936	1955	1890	1693	1306	712	205	78.7	31.7	27.8	
15	947	976	1027	1121	1284	1523	1763	1917	1996	2000	1915	1696	1286	685	194	76.5	30.6	26.8	
20	972	999	1047	1130	1273	1508	1770	1958	2059	2089	2033	1872	1546	1036	402	113	49.3	25.5	
25	1057	1094	1160	1270	1447	1681	1910	2066	2145	2148	2058	1860	1498	960	355	108	46.9	25.4	
30	1211	1285	1412	1610	1852	2059	2193	2264	2263	2164	1962	1615	1097	471	134	63.8	27.7	25.2	
35	1375	1467	1609	1803	2014	2188	2299	2348	2323	2188	1940	1548	1000	404	124	60.2	27.5	25.5	
40	1571	1662	1801	1979	2160	2313	2419	2473	2459	2353	2114	1738	1233	606	204	85.8	38.7	25.4	
45	1671	1766	1904	2069	2240	2380	2479	2517	2476	2333	2038	1604	1059	481	173	77.8	36.2	25.3	
50	1877	2001	2145	2300	2435	2541	2589	2546	2402	2095	1624	1047	454	176	84.2	42.3	26.3	25.6	
55	1826	1941	2076	2225	2363	2468	2496	2424	2241	1884	1379	807	351	148	74.0	38.4	25.7	25.0	
60	1702	1792	1894	2027	2172	2301	2375	2323	2161	1850	1356	772	298	154	83.3	45.9	27.7	23.8	
65	1421	1497	1590	1707	1836	1944	1994	1915	1715	1393	945	536	225	123	68.6	39.3	26.0	23.1	
70	1033	1098	1193	1288	1386	1426	1371	1161	853	470	221	138	89.9	56.8	34.8	25.1	22.5	22.4	
75	660	701	763	822	881	905	870	731	541	307	154	99.1	66.3	44.1	29.7	23.3	21.5	21.6	
80	101	101	112	122	122	124	123	110	78.2	68.9	59.8	47.3	36.1	28.3	23.6	21.3	20.3	20.2	
85	67.8	68.3	74.7	80.7	80.7	82.2	81.6	73.7	54.6	48.9	43.4	35.9	29.0	24.3	21.4	20.1	19.5	19.5	
90	18.4	18.6	18.7	18.8	19.0	19.1	19.1	19.1	19.0	18.9	18.7	18.5	18.4	18.3	18.3	18.4	18.5	18.6	

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: