

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	592.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	142.9V x 169.7H
	At 50% of Imax	64.4V x 162.1H
	At 90% of Imax	25.6V x 157.7H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	957.3 lumens per klm.
	To 50% of Imax	466.9 lumens per klm.
	To 90% of Imax	52.4 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

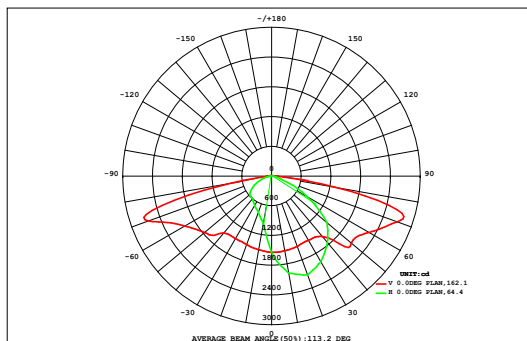
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:0.2358A P:51.54W PF:0.9896 Freq:49.99Hz Lamp Flux:6911.2x1 lm		
NAME: LUX-AL-50-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:134.09lm/W	
MODEL	LED	Imax(cd)	4093
NOMINAL POWER(W)	50	AVAILABILITY(%)	95.8
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	6618
NOMINAL FLUX(lm)	6911.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	6911
TEST VOLTAGE(V)	230	θ @50%(H,V)	162,64DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.05	0.19	0.66	1.60	1.45	0.85	0.82	0.85	0.91	0.92	0.90	0.90	1.09	2.16	1.86	0.75	0.21	0.05	16.2	0.00
90	0.05	0.19	0.66	1.60	1.45	0.85	0.82	0.85	0.91	0.92	0.90	0.90	1.09	2.16	1.86	0.75	0.21	0.05	16.2	0.00
80	0.06	1.18	5.87	6.81	4.92	3.79	3.81	3.96	4.21	4.32	4.21	4.13	4.47	6.30	9.43	6.81	1.34	0.08	75.7	23.4
70	0.15	5.38	22.1	21.6	15.5	14.2	14.8	15.4	15.7	16.1	16.6	16.5	16.5	20.0	30.0	24.0	4.72	0.15	269	248
60	0.28	10.7	38.5	43.0	37.9	35.0	34.8	34.9	34.5	35.4	37.5	38.3	39.2	43.9	51.3	42.7	12.2	0.41	570	569
50	0.69	18.3	46.0	54.6	55.9	53.0	50.5	48.9	48.5	50.0	53.4	57.1	61.3	66.2	64.5	49.4	16.9	0.55	796	795
40	0.78	20.4	47.8	59.4	63.5	61.7	58.0	56.1	56.3	57.6	60.4	65.7	71.2	73.7	67.9	51.6	22.6	1.06	896	895
30	1.33	23.4	45.3	55.5	60.6	60.6	59.2	60.3	62.1	63.3	64.5	67.7	73.3	72.8	64.9	49.5	22.1	0.98	907	907
20	1.08	21.5	40.3	47.6	53.0	53.9	55.5	59.0	61.8	62.7	61.2	59.5	61.5	63.3	55.1	44.3	23.0	1.40	826	825
10	1.42	20.5	31.9	36.6	40.8	41.6	46.1	50.6	53.6	54.0	51.8	47.6	45.1	49.9	43.1	36.4	19.4	1.05	671	671
0	0.94	16.3	25.6	28.4	29.8	30.5	33.1	35.6	37.2	37.4	36.0	33.7	31.3	34.1	32.5	28.7	17.3	1.24	490	489
-10	1.04	14.0	20.6	20.1	19.9	20.8	22.9	24.8	26.1	26.3	25.4	23.7	21.9	23.6	23.6	24.0	13.7	0.82	353	353
-20	0.62	10.7	17.8	14.3	14.1	15.8	18.3	20.4	21.8	22.0	21.0	19.0	17.0	16.5	15.9	19.2	11.8	0.86	277	276
-30	0.60	8.80	14.0	9.75	11.2	13.8	16.3	18.1	19.3	19.3	18.3	16.7	15.5	13.0	11.9	16.3	8.51	0.53	232	231
-40	0.31	5.78	12.0	7.97	9.32	12.3	15.4	16.8	17.7	17.9	17.1	15.9	13.7	10.5	9.10	12.4	6.57	0.47	201	196
-50	0.24	3.80	8.33	6.33	7.51	10.3	13.4	14.7	15.4	15.5	14.8	13.6	10.5	7.97	7.66	9.11	3.56	0.24	163	129
-60	0.12	1.47	4.53	4.69	5.00	6.61	8.46	9.60	10.2	10.2	9.58	8.73	6.94	5.42	5.23	4.64	1.75	0.17	103	9.27
-70	0.10	0.51	1.46	2.19	2.52	3.31	4.15	4.57	4.81	4.84	4.64	4.22	3.44	2.87	2.52	1.49	0.51	0.11	48.3	0.00
-80	0.09	0.24	0.39	0.69	0.93	1.15	1.35	1.41	1.43	1.45	1.45	1.42	1.26	1.08	0.76	0.44	0.28	0.10	15.9	0.00
-90	0.09	0.24	0.39	0.69	0.93	1.15	1.35	1.41	1.43	1.45	1.45	1.42	1.26	1.08	0.76	0.44	0.28	0.10	15.9	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	9.90	183	383	421	434	439	457	476	491	499	499	494	495	513	497	422	186	10.3	6911	---
Φ a	6.75	177	376	402	409	417	435	454	468	476	476	473	473	490	483	416	180	6.64	---	6618

one-half-peak spread: U:28.3,D:36.4 , L:8.2,R:10.0

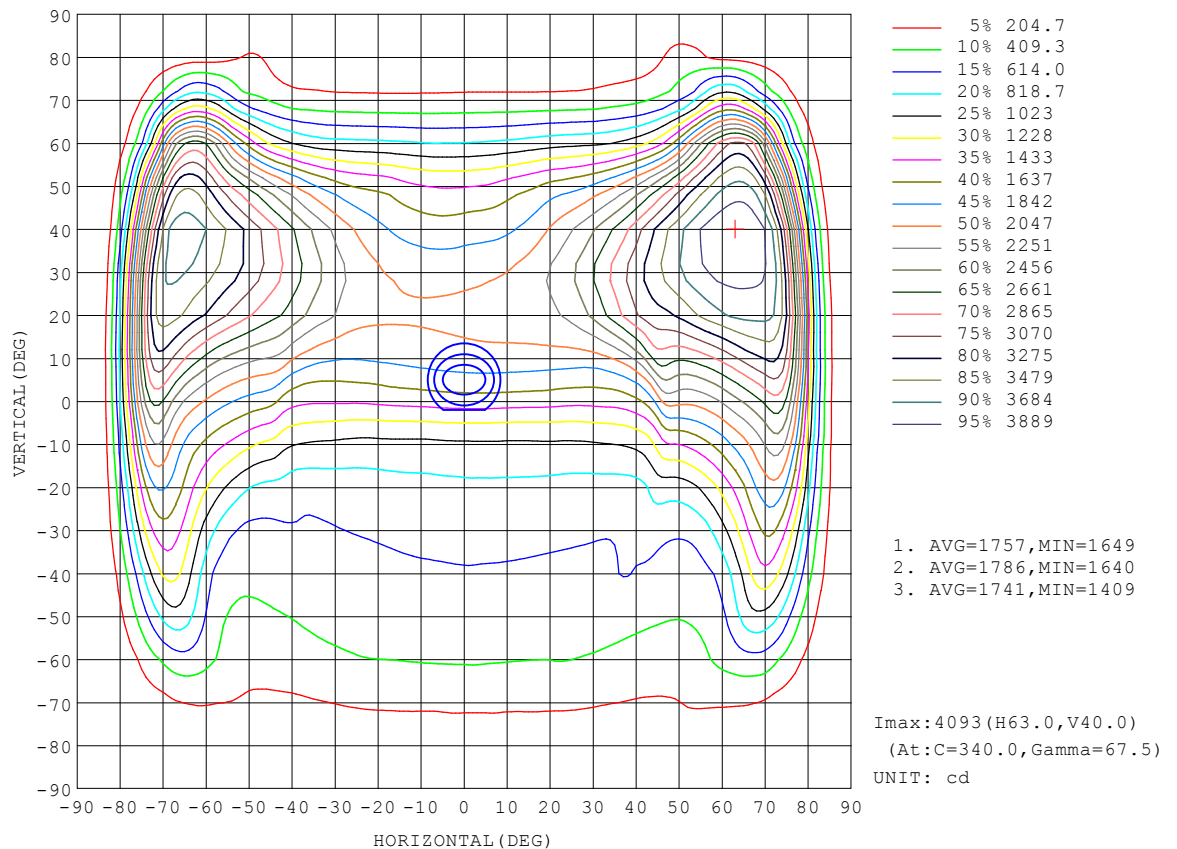
NEMA Beam Type: Type 7

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:0.2358A P:51.54W PF:0.9896 Freq:49.99Hz Lamp Flux:6911.2x1 lm		
NAME: LUX-AL-50-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

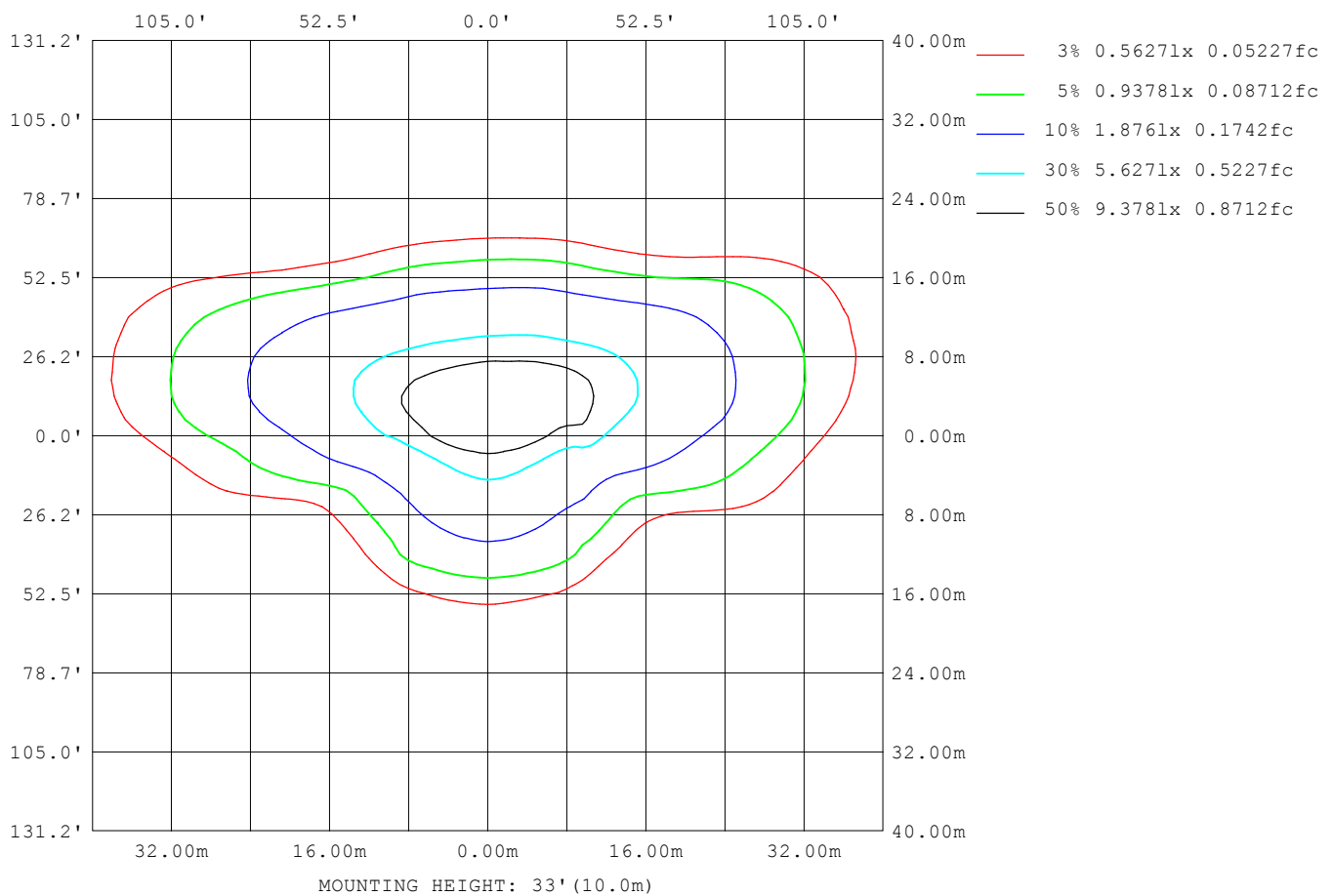


H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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

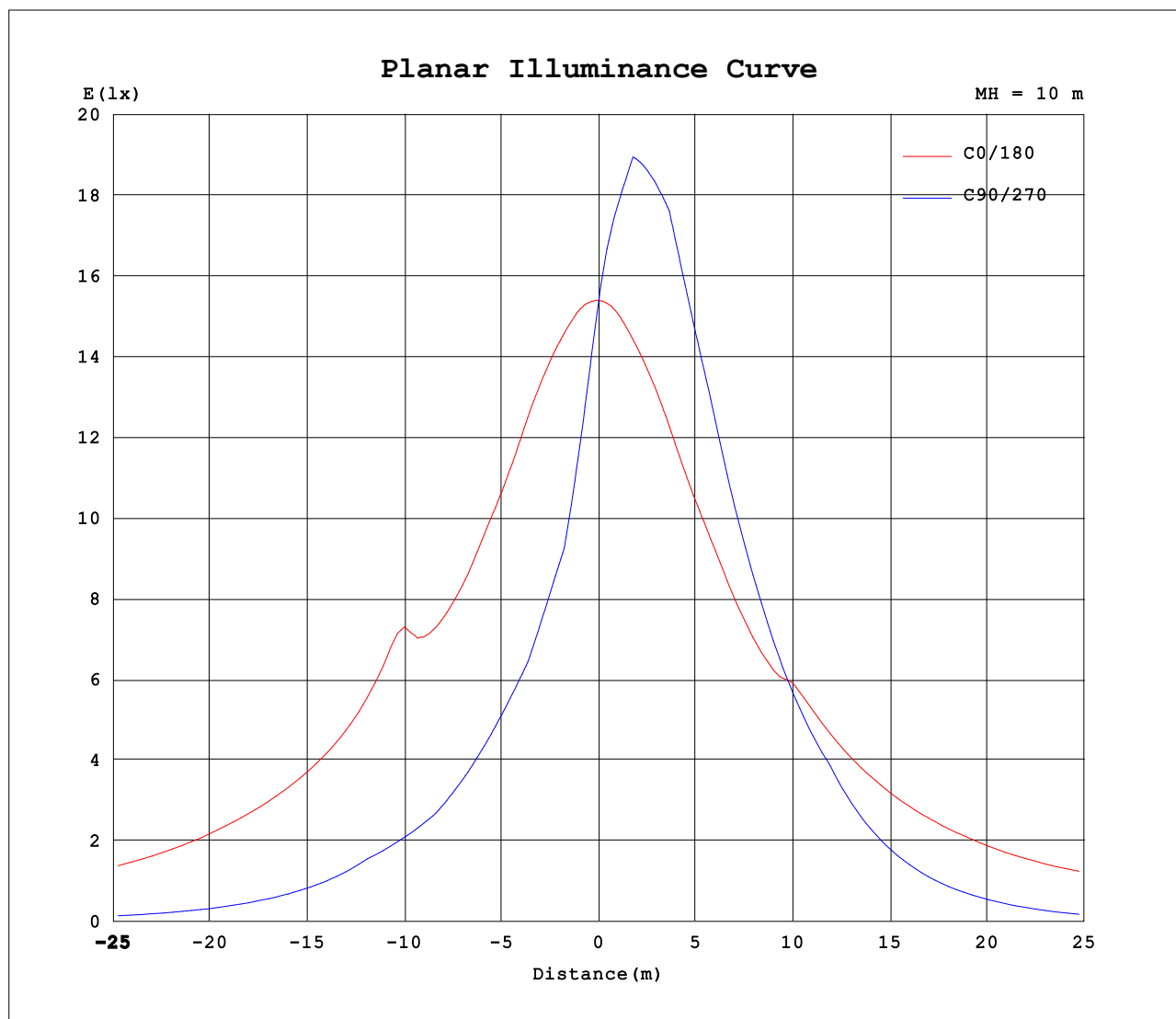
Test:U:220.9V I:0.2358A P:51.54W PF:0.9896 Freq:49.99Hz Lamp Flux:6911.2x1 lm		
NAME: LUX-AL-50-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.1	Shielding Angle:SCL-PC



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



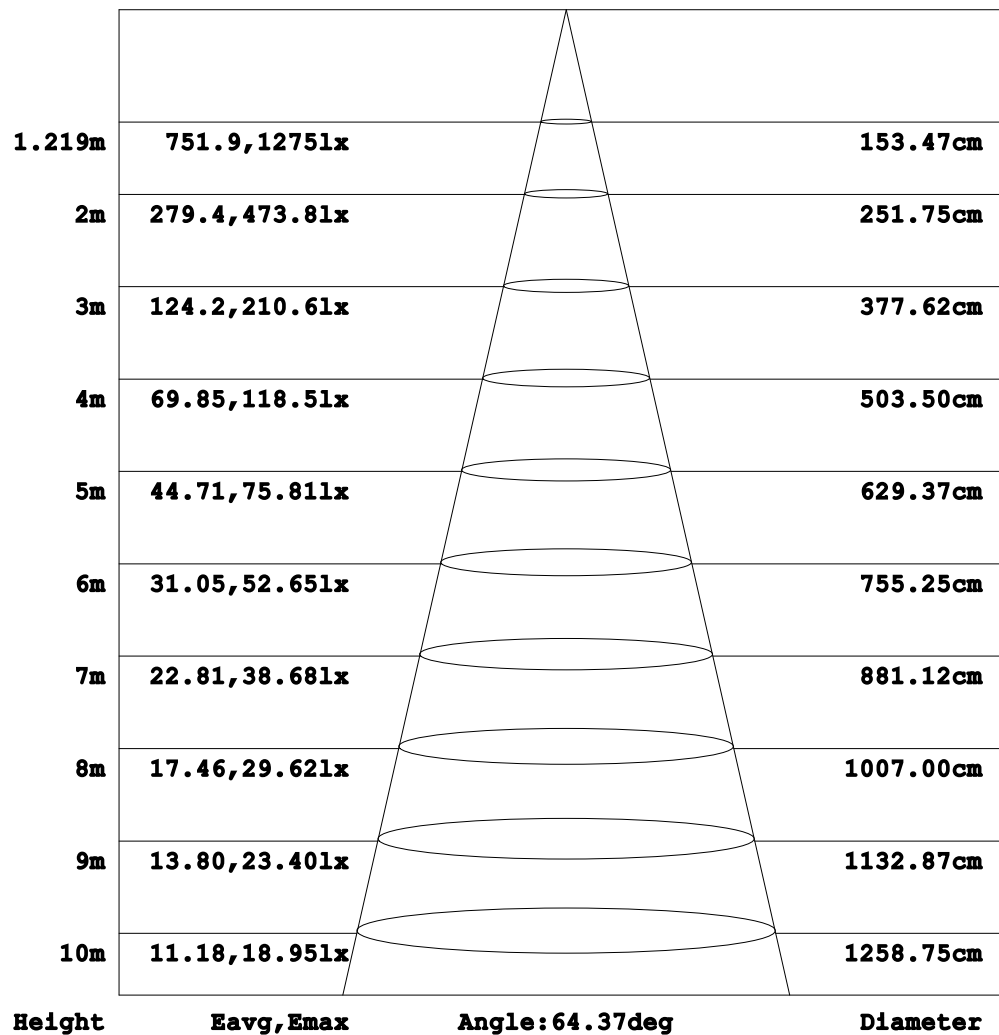
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

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:0.2358A P:51.54W PF:0.9896 Freq:49.99Hz Lamp Flux:6911.2x1 lm		
NAME: LUX-AL-50-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:1425 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:0.2358A P:51.54W PF:0.9896 Freq:49.99Hz Lamp Flux:6911.2x1 lm		
NAME: LUX-AL-50-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	34.3	33.3	31.4	29.8	28.5	27.6	27.0	26.7	26.7	26.8	27.0	27.2	27.2	26.8	26.2	25.5	25.1	24.8	24.8
-85	34.2	33.6	32.4	31.5	31.0	32.0	35.8	40.2	40.4	41.1	42.4	44.6	45.8	46.7	45.7	45.1	44.7	44.6	44.8
-80	34.7	34.1	33.8	33.9	34.3	36.3	44.1	57.9	59.7	62.3	64.0	68.7	71.7	76.6	75.4	74.4	74.3	74.3	74.6
-75	34.4	34.7	36.7	50.3	74.0	96.9	111	116	107	105	109	118	126	135	138	140	140	141	143
-70	34.0	37.2	50.4	97.3	162	202	205	198	172	170	181	199	214	228	234	239	238	247	246
-65	34.1	39.9	81.0	190	297	334	289	239	214	221	236	256	276	297	304	310	313	320	321
-60	33.1	38.3	80.4	242	438	546	467	348	273	289	309	332	358	389	407	414	423	429	432
-55	33.3	40.5	115	345	607	694	521	369	314	330	353	385	422	463	476	477	485	489	493
-50	36.0	67.6	284	652	941	812	488	378	380	402	433	486	544	582	574	574	578	581	588
-45	36.9	79.8	349	790	1085	878	527	414	409	431	461	499	542	573	571	576	581	586	592
-40	35.1	51.2	270	767	1252	1155	718	491	450	465	492	518	526	553	565	574	584	591	597
-35	35.4	55.2	324	908	1375	1239	802	559	492	503	534	543	557	580	593	606	618	625	632
-30	39.2	143	655	1375	1534	1181	810	598	550	574	589	588	611	626	642	660	672	681	685
-25	37.6	155	741	1524	1635	1284	940	725	644	644	625	630	648	661	678	695	705	715	722
-20	32.9	66.6	521	1467	1860	1598	1241	998	825	758	696	685	701	710	724	741	751	763	773
-15	30.8	66.4	585	1634	1996	1682	1376	1163	999	922	827	806	809	806	815	828	833	844	852
-10	29.2	217	1146	2182	2030	1704	1505	1350	1211	1109	1003	980	962	949	955	957	958	968	971
-5	26.9	224	1233	2343	2183	1860	1681	1543	1423	1305	1189	1163	1147	1137	1147	1150	1155	1167	1170
0	23.5	67.0	808	2294	2653	2237	2022	1871	1772	1696	1502	1459	1461	1458	1474	1496	1508	1528	1539
5	22.2	65.4	838	2441	2886	2480	2236	2074	1966	1907	1694	1614	1609	1620	1643	1676	1699	1723	1737
10	20.9	260	1565	3089	3090	2765	2513	2368	2276	2214	2011	1900	1872	1885	1913	1927	1950	1972	1986
15	20.3	247	1548	3152	3278	3007	2781	2615	2492	2398	2207	2072	1997	1973	1982	1989	2007	2026	2042
20	19.3	63.0	840	2649	3580	3456	3260	3063	2886	2723	2577	2387	2250	2126	2089	2082	2086	2100	2118
25	19.1	58.8	805	2604	3621	3555	3382	3197	3020	2837	2661	2458	2293	2154	2088	2059	2047	2052	2067
30	18.7	197	1415	3182	3732	3658	3501	3332	3141	2920	2697	2476	2288	2150	2057	2006	1982	1982	1999
35	18.5	171	1270	3008	3735	3706	3542	3342	3129	2889	2650	2421	2224	2078	1974	1911	1880	1880	1904
40	18.6	36.3	521	2103	3489	3804	3684	3460	3212	2951	2684	2430	2208	2027	1895	1796	1740	1722	1748
45	18.7	32.4	441	1839	3246	3680	3537	3256	2989	2720	2462	2223	2028	1881	1785	1695	1637	1613	1630
50	18.3	81.5	612	2083	3249	3476	3164	2825	2542	2272	2036	1845	1713	1644	1599	1514	1465	1448	1463
55	18.2	63.2	471	1638	2846	3183	2885	2428	2080	1808	1611	1466	1379	1333	1301	1244	1207	1197	1210
60	18.8	20.4	132	590	1756	2649	2650	2074	1555	1195	1021	921	881	871	860	844	825	820	825
65	18.9	19.8	95.2	432	1255	1934	1963	1511	1100	848	717	653	623	614	606	596	585	584	589
70	18.5	20.6	79.8	306	654	951	856	527	382	293	252	246	232	227	223	223	226	231	236
75	18.7	19.7	55.5	195	417	611	560	392	316	218	180	171	161	157	154	154	156	160	163
80	19.6	18.3	18.7	21.1	46.4	85.9	107	160	223	149	78.9	62.0	56.0	52.8	51.5	51.1	52.6	53.1	54.3
85	20.1	18.8	18.5	19.4	34.0	57.2	69.4	101	138	93.4	51.0	40.7	37.1	35.0	34.2	33.9	34.8	35.1	35.8
90	20.3	18.9	17.5	16.2	14.8	13.6	12.4	11.3	10.4	9.62	9.05	8.70	8.50	8.38	8.28	8.20	8.15	8.11	8.08

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:0.2358A P:51.54W PF:0.9896 Freq:49.99Hz Lamp Flux:6911.2x1 lm		
NAME: LUX-AL-50-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	25.2	25.6	26.2	26.9	27.7	28.3	28.6	28.4	27.9	27.3	27.2	27.6	29.0	31.1	33.4	35.6	36.7	36.4	
-85	45.4	46.1	46.7	47.6	48.5	47.9	47.4	47.3	46.6	44.8	41.7	36.6	34.2	34.8	36.1	37.3	37.6	36.5	
-80	75.3	76.4	77.4	77.8	79.1	79.0	75.3	75.4	74.5	74.3	66.1	54.9	44.8	40.6	40.2	40.1	39.9	37.1	
-75	144	142	142	141	140	135	127	122	119	126	131	121	109	90.7	65.6	49.0	42.0	37.5	
-70	247	239	239	235	227	213	200	187	189	225	225	216	193	141	83.8	51.2	42.2	36.2	
-65	318	310	308	308	296	275	258	241	236	261	295	329	334	267	154	72.8	44.3	36.3	
-60	428	420	412	412	410	380	356	332	313	303	358	467	539	523	338	154	57.0	40.1	
-55	492	487	482	482	480	456	414	384	361	350	396	510	681	697	471	212	68.4	41.0	
-50	587	588	586	586	578	543	483	449	423	426	487	686	974	884	503	192	54.0	37.9	
-45	589	588	584	583	577	555	540	500	465	462	528	739	1084	1052	630	241	58.9	38.4	
-40	594	590	584	580	578	573	597	599	547	514	552	692	1064	1381	1059	478	127	44.8	
-35	629	624	616	608	602	596	607	634	598	564	611	796	1175	1497	1195	549	143	45.0	
-30	679	672	661	646	635	625	630	724	649	646	781	1083	1499	1658	1139	417	77.1	40.8	
-25	718	712	703	688	677	669	671	750	753	765	921	1214	1611	1790	1284	469	79.6	39.4	
-20	775	773	769	758	743	737	733	747	912	909	1043	1290	1611	1947	1793	892	213	41.6	
-15	854	852	850	846	836	839	844	871	1061	1114	1244	1470	1757	2071	1952	974	219	39.2	
-10	974	970	976	977	981	1000	1023	1108	1405	1459	1616	1836	2082	2348	1841	648	81.5	33.0	
-5	1168	1161	1161	1159	1159	1175	1201	1305	1667	1715	1839	2031	2254	2512	1997	703	83.4	31.4	
0	1540	1530	1522	1511	1491	1495	1512	1593	1928	2102	2124	2272	2471	2698	2619	1305	246	31.5	
5	1742	1733	1721	1702	1677	1671	1699	1818	2267	2331	2361	2515	2711	2932	2802	1384	259	30.8	
10	1991	1986	1980	1974	1956	2000	2156	2522	2751	2704	2819	3014	3219	3322	2527	804	81.2	28.6	
15	2051	2055	2062	2081	2127	2241	2447	2768	2943	2977	3124	3291	3431	3466	2593	810	81.1	28.9	
20	2135	2150	2172	2213	2314	2503	2769	3050	3208	3313	3508	3661	3744	3745	3276	1533	259	30.9	
25	2088	2116	2164	2243	2371	2577	2844	3117	3311	3465	3654	3784	3838	3809	3249	1458	238	31.0	
30	2032	2095	2203	2349	2542	2796	3065	3317	3561	3772	3921	3982	3966	3775	2524	704	71.5	30.2	
35	1930	1994	2108	2263	2450	2691	2956	3238	3518	3758	3944	4026	3999	3717	2385	637	65.4	30.2	
40	1768	1808	1907	2063	2240	2438	2685	2982	3324	3627	3894	4070	4090	3878	2902	1033	159	31.0	
45	1653	1705	1798	1933	2062	2227	2439	2713	3047	3381	3687	3910	3960	3678	2570	855	133	30.2	
50	1505	1582	1677	1760	1833	1967	2155	2430	2778	3165	3504	3743	3686	2975	1366	319	39.4	28.9	
55	1242	1300	1372	1435	1488	1578	1720	1939	2262	2718	3173	3478	3380	2494	1058	255	35.7	27.9	
60	838	864	899	937	962	981	1031	1135	1343	1791	2441	2959	3089	2324	977	291	50.4	26.2	
65	597	612	634	658	675	691	732	804	960	1277	1798	2256	2271	1639	708	211	41.2	25.2	
70	236	236	238	242	248	268	292	331	432	595	1032	1215	863	476	200	48.2	25.1	24.2	
75	163	163	165	167	172	187	208	242	349	470	694	781	558	310	130	38.0	23.6	23.4	
80	54.3	54.4	55.5	55.4	57.2	63.2	76.0	97.0	159	289	235	142	114	79.9	33.5	23.6	21.8	21.8	
85	35.8	35.9	36.5	36.5	37.6	41.3	49.0	61.8	99.1	177	146	90.5	73.9	54.2	26.9	21.5	20.9	21.3	
90	8.07	8.07	8.09	8.15	8.28	8.48	8.76	9.20	9.89	10.8	11.8	13.1	14.6	16.1	17.5	18.9	20.0	20.8	

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: