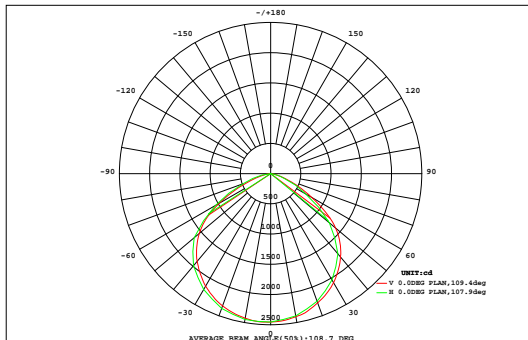


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.2019A P:43.94W PF:0.9883 Lamp Flux:6378.2x1 lm		
NAME: EV45B1204	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integratech	SUR.:185*170mm	PROTECTION ANGLE:



DATA OF LAMP		Eff:145.17lm/W	
MODEL	EV45B1204	Imax(cd)	2457
NOMINAL POWER(W)	45	AVAILABILITY(%)	97.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	6232
NOMINAL FLUX(lm)	6378.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	6378
TEST VOLTAGE(V)	220	θ @50%(H,V)	109,108DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.02	0.06	0.23	0.69	1.52	2.55	3.45	4.10	4.43	4.46	4.16	3.55	2.69	1.72	0.86	0.32	0.08	0.01	34.9	0.00
70	0.01	0.14	0.79	2.24	4.46	7.11	9.68	11.7	12.8	12.8	11.6	9.69	7.22	4.65	2.43	0.94	0.20	0.01	98.5	77.7
60	0.02	0.33	1.70	4.78	9.73	15.8	21.7	26.2	28.5	28.3	25.6	21.0	15.2	9.57	4.91	1.85	0.41	0.03	216	209
50	0.03	0.58	2.89	8.36	17.1	27.2	36.0	42.4	45.7	45.6	41.8	34.9	25.9	16.2	8.19	3.05	0.66	0.04	357	353
40	0.04	0.86	4.29	12.6	24.8	37.0	46.7	53.6	57.2	57.1	53.3	46.2	36.0	23.5	11.9	4.37	0.93	0.06	471	468
30	0.06	1.11	5.72	16.6	30.6	43.0	53.3	60.8	64.8	64.7	60.6	53.0	42.5	29.7	15.6	5.68	1.20	0.07	549	547
20	0.07	1.35	7.01	19.7	34.1	47.0	58.0	66.0	70.1	70.1	65.7	57.6	46.5	33.3	18.4	6.75	1.40	0.08	603	601
10	0.08	1.49	7.78	21.3	35.9	49.2	60.7	68.9	73.3	73.2	68.7	60.3	48.8	35.4	20.3	7.45	1.54	0.09	634	632
0	0.08	1.54	8.04	21.7	36.5	50.0	61.5	69.9	74.3	74.1	69.6	61.0	49.4	35.9	20.7	7.58	1.55	0.09	644	642
-10	0.08	1.47	7.61	20.8	35.6	49.0	60.4	68.7	72.9	72.9	68.4	60.0	48.6	35.2	20.0	7.27	1.50	0.09	630	628
-20	0.08	1.32	6.73	18.8	33.3	46.4	57.3	65.4	69.4	69.4	64.9	56.9	45.8	32.8	17.8	6.38	1.32	0.09	594	592
-30	0.07	1.08	5.37	15.4	29.0	41.8	52.2	59.7	63.6	63.6	59.5	52.0	41.4	28.5	14.6	5.20	1.09	0.08	534	532
-40	0.06	0.83	3.94	11.3	22.7	34.6	44.6	51.6	55.2	55.1	51.3	44.2	34.1	21.7	10.7	3.80	0.81	0.06	447	443
-50	0.04	0.55	2.56	7.14	14.5	23.7	32.4	38.5	41.7	41.6	38.3	31.9	23.1	14.1	6.93	2.47	0.55	0.05	320	315
-60	0.04	0.33	1.45	3.85	7.63	12.3	17.0	20.8	22.9	22.9	20.7	16.8	12.2	7.52	3.70	1.34	0.32	0.04	172	163
-70	0.03	0.16	0.63	1.65	3.15	4.80	6.36	7.60	8.29	8.36	7.73	6.49	4.80	2.99	1.49	0.57	0.17	0.04	65.3	30.6
-80	0.02	0.05	0.13	0.33	0.62	0.87	1.01	1.06	1.05	1.01	0.94	0.80	0.56	0.32	0.16	0.07	0.04	0.02	9.05	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.83	13.3	66.9	187	341	492	622	717	766	765	713	616	485	333	179	65.1	13.8	0.96	6378	---
Φ a	0.00	3.36	56.7	179	332	483	613	709	758	757	705	607	476	326	170	55.0	3.45	0.00	---	6232

one-half-peak spread: U:57.3,D:51.0 , L:52.4,R:57.3 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-6-1

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.2019A P:43.94W PF:0.9883 Lamp Flux:6378.2x1 lm		
NAME: EV45B1204	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integrattech	SUR.:185*170mm	PROTECTION ANGLE:

Conical surface Flux(90deg):

3816.3 lm

%lum = 59.9%

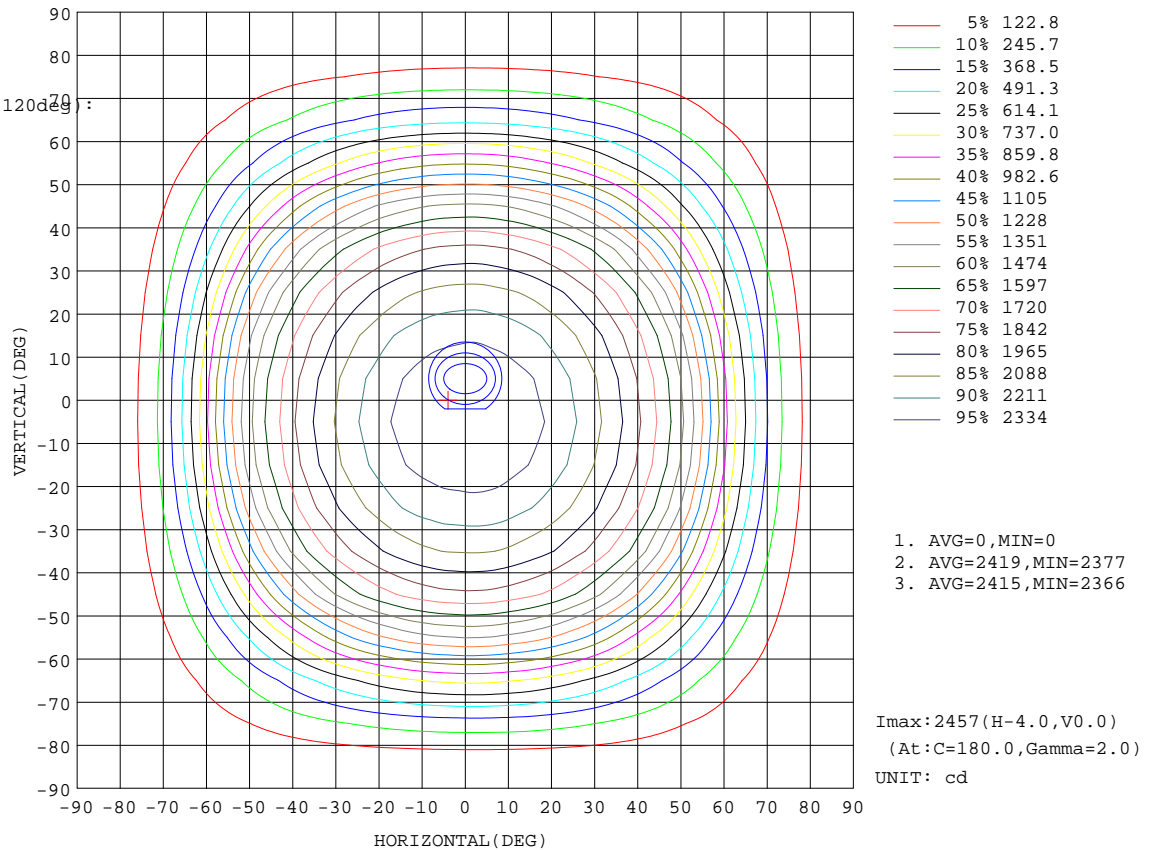
%lamp = 59.8%

Conical surface Flux(120deg):

5508.2 lm

%lum = 86.5%

%lamp = 86.4%



H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2022-6-1

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290

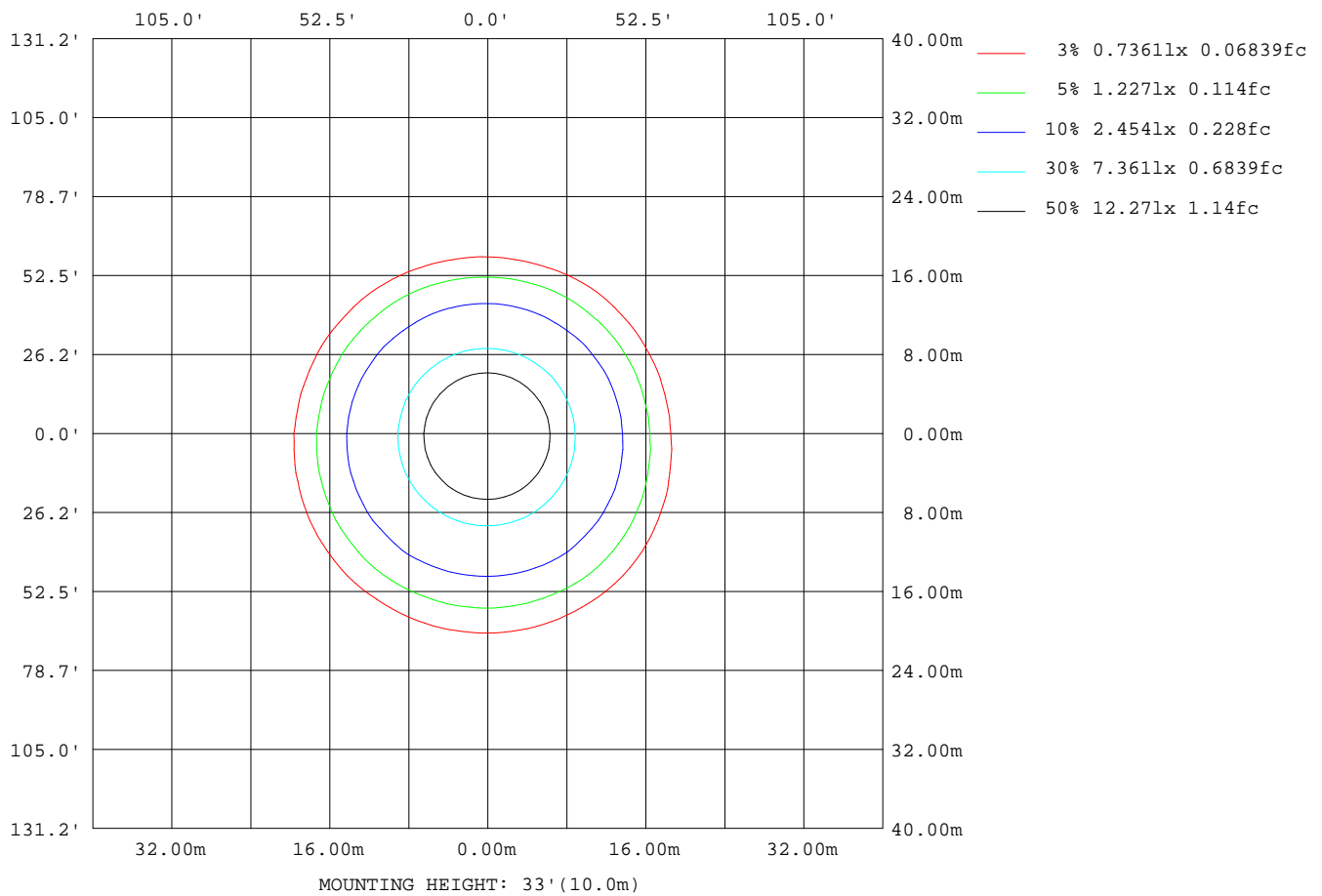
Humidity:65.0%

Test Distance:11.710m [K=1.0000]

Remarks:

ISOLUX DIAGRAM

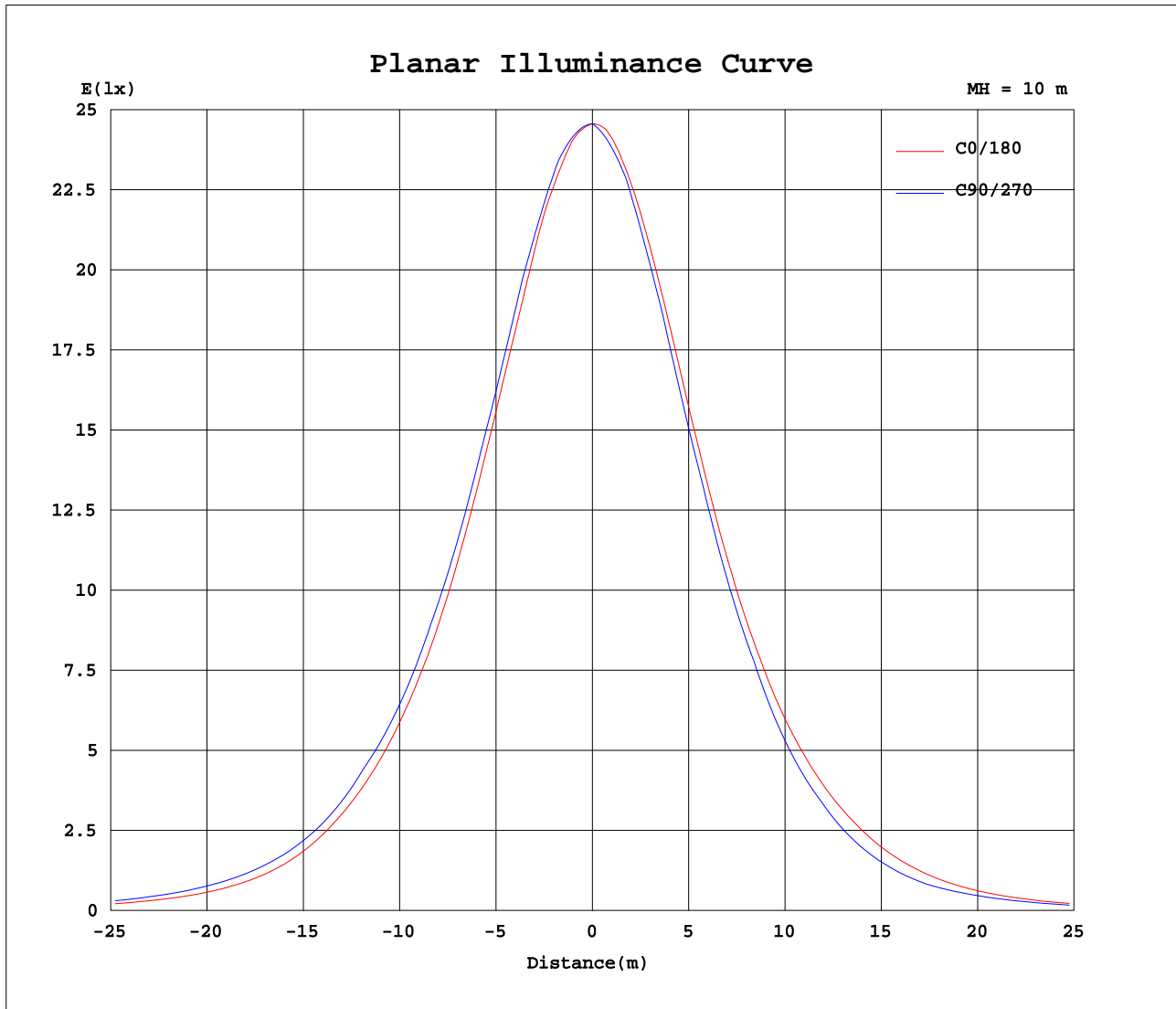
Test:U:220.2V I:0.2019A P:43.94W PF:0.9883 Lamp Flux:6378.2x1 lm		
NAME: EV45B1204	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integratech	SUR.:185*170mm	PROTECTION ANGLE:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-6-1

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

Planar Illuminance Curve

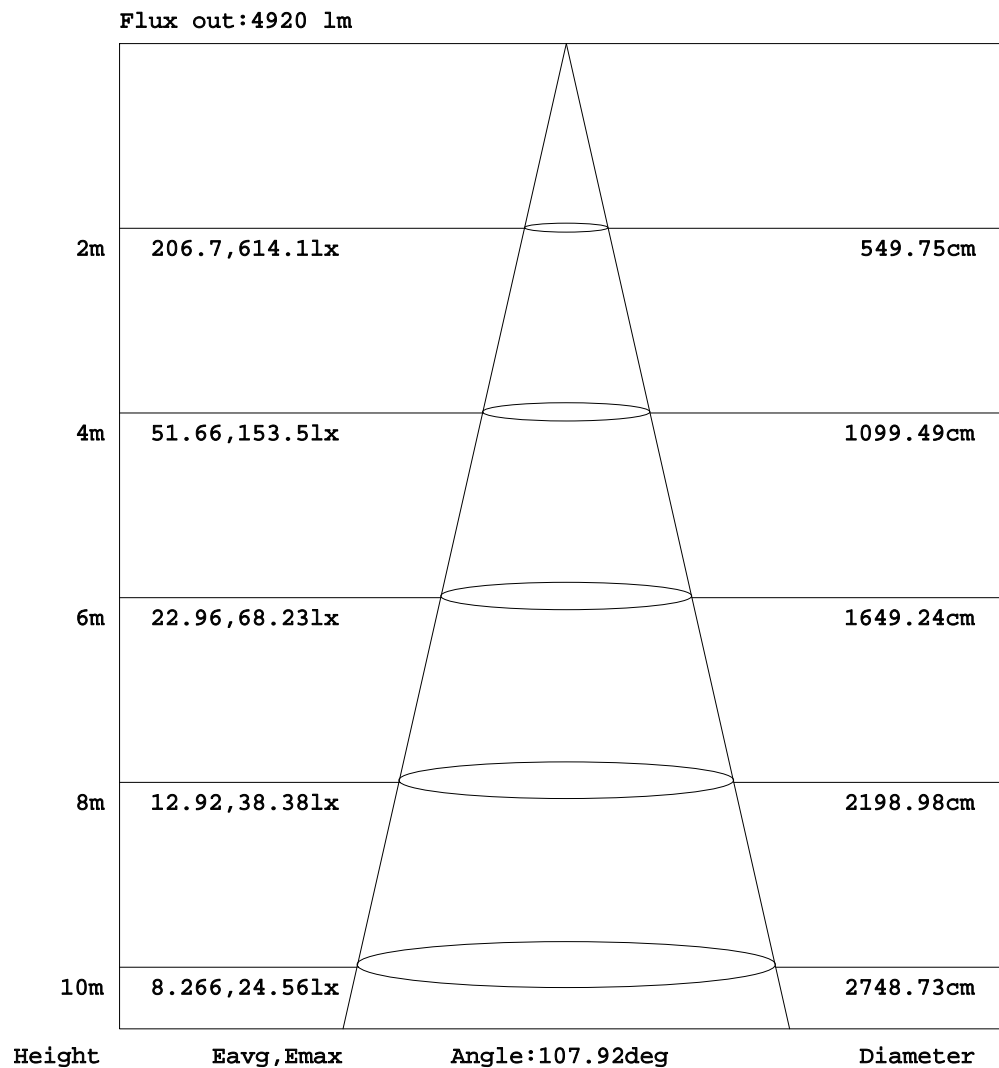


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-6-1

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.2V I:0.2019A P:43.94W PF:0.9883 Lamp Flux:6378.2x1 lm		
NAME: EV45B1204	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integrattech	SUR.:185*170mm	PROTECTION ANGLE:



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:2022-6-1

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.2019A P:43.94W PF:0.9883 Lamp Flux:6378.2x1 lm																	
NAME: EV45B1204									TYPE:						WEIGHT:2.48KG		
SPEC.:									DIM.: 347*244*69mm						SERIAL No.:1		
MFR.: Integratech									SUR.:185*170mm						PROTECTION ANGLE:		

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	11.8	13.4	13.2	14.1	17.9	27.6	40.6	55.8	72.3	89.1	103	115	125	134	140	144	146	148	149
-75	10.6	13.0	13.3	17.3	27.7	44.3	66.3	92.3	121	151	180	207	231	253	272	287	298	306	309
-70	11.1	13.1	15.0	27.6	49.3	77.2	112	151	194	237	279	319	355	389	417	440	457	467	472
-65	9.77	12.4	15.1	30.8	59.1	98.0	147	206	272	343	417	488	553	613	665	705	737	755	765
-60	10.4	12.8	24.3	54.1	97.3	156	228	312	406	508	614	711	800	881	946	998	1035	1053	1059
-55	9.00	11.8	20.4	51.9	102	171	263	374	502	638	776	910	1030	1132	1210	1271	1316	1342	1356
-50	9.68	13.3	37.4	84.9	157	254	382	536	706	878	1048	1210	1346	1452	1522	1586	1624	1643	1652
-45	8.43	11.2	28.9	76.8	152	259	405	587	788	992	1181	1343	1478	1585	1669	1733	1778	1808	1819
-40	9.19	15.2	52.7	123	225	371	569	796	1035	1264	1450	1589	1702	1791	1867	1922	1962	1983	1986
-35	7.99	10.7	37.6	101	203	353	559	808	1065	1300	1492	1647	1769	1868	1951	2015	2062	2091	2098
-30	8.73	17.1	64.9	153	289	485	743	1024	1292	1503	1668	1805	1918	2015	2092	2148	2187	2206	2213
-25	7.56	10.5	45.1	123	248	439	701	997	1281	1503	1678	1829	1949	2054	2137	2207	2253	2280	2289
-20	8.22	19.6	77.0	181	343	590	893	1203	1463	1649	1815	1949	2070	2162	2243	2307	2340	2362	2371
-15	7.04	10.1	49.9	138	281	501	800	1121	1405	1611	1786	1936	2058	2165	2251	2321	2368	2397	2408
-10	7.56	19.8	81.4	193	374	640	967	1283	1528	1711	1883	2022	2137	2237	2320	2375	2421	2442	2447
-5	6.47	9.65	51.6	144	295	530	843	1171	1446	1650	1826	1972	2097	2204	2293	2360	2409	2442	2452
0	6.91	19.9	83.5	198	381	658	987	1303	1542	1729	1891	2026	2149	2247	2326	2385	2427	2455	2454
5	5.92	8.94	49.9	141	288	518	824	1148	1423	1626	1798	1941	2068	2176	2262	2328	2378	2409	2421
10	6.36	17.6	76.6	184	356	610	923	1237	1481	1664	1825	1960	2080	2178	2259	2313	2359	2376	2389
15	5.52	8.04	44.9	128	261	465	745	1052	1330	1537	1705	1851	1972	2079	2161	2229	2276	2302	2315
20	5.96	15.4	68.1	164	311	531	812	1105	1362	1552	1711	1840	1955	2046	2124	2185	2222	2240	2246
25	5.31	7.23	37.4	108	219	385	618	887	1152	1374	1546	1691	1809	1909	1989	2054	2097	2127	2137
30	5.62	11.7	53.1	130	245	411	631	882	1133	1342	1507	1640	1748	1836	1909	1964	2002	2025	2030
35	5.18	6.47	28.1	82.5	169	293	463	673	898	1111	1292	1442	1562	1658	1739	1796	1839	1869	1879
40	5.38	8.93	39.4	97.0	181	297	450	640	839	1028	1205	1349	1456	1548	1619	1666	1705	1721	1730
45	4.99	5.86	18.7	57.1	118	201	312	453	612	775	932	1071	1188	1284	1365	1422	1464	1491	1500
50	5.18	6.64	23.7	60.6	116	187	280	392	517	649	776	892	998	1089	1160	1215	1252	1269	1270
55	4.82	5.41	10.7	33.1	70.2	121	185	264	354	450	547	639	724	799	863	911	944	963	970
60	4.97	5.60	11.5	32.0	62.1	102	150	205	267	330	394	455	511	565	605	635	656	666	665
65	4.66	5.02	6.52	15.0	32.8	58.4	90.5	128	169	212	257	299	337	373	403	427	443	453	456
70	4.72	4.89	5.88	10.1	22.1	39.1	59.3	82.4	106	130	153	174	192	207	221	232	240	244	245
75	4.51	4.64	5.08	6.39	10.9	18.8	29.0	41.9	57.4	73.5	89.9	105	118	129	138	145	150	153	155
80	4.50	4.51	4.95	5.23	5.31	6.05	8.20	13.6	21.3	29.9	38.8	47.0	53.5	57.6	60.4	62.2	62.7	63.4	63.7
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2022-6-1

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290

Humidity:65.0%

Test Distance:11.710m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.2019A P:43.94W PF:0.9883 Lamp Flux:6378.2x1 lm																		
NAME: EV45B1204									TYPE:					WEIGHT:2.48KG				
SPEC.:									DIM.: 347*244*69mm					SERIAL No.:1				
MFR.: Integratech									SUR.:185*170mm					PROTECTION ANGLE:				

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	147	145	141	136	128	117	102	87.2	71.8	57.7	45.0	33.7	23.9	17.1	14.9	14.6	14.0	11.5	
-75	310	305	297	284	267	245	220	191	161	129	100	74.0	51.8	35.3	23.7	16.4	14.5	12.6	
-70	469	459	442	419	390	355	315	271	224	177	134	95.5	65.0	43.2	25.6	15.6	14.0	11.2	
-65	762	745	721	683	638	583	519	450	378	304	233	168	115	74.3	44.4	23.9	14.5	12.3	
-60	1045	1014	972	913	844	761	669	570	472	373	277	195	129	78.7	44.9	21.0	13.5	10.9	
-55	1349	1322	1285	1228	1153	1061	946	817	685	552	423	304	206	130	73.4	37.1	15.2	11.8	
-50	1638	1603	1555	1488	1395	1275	1120	957	794	626	467	329	215	130	68.5	31.3	13.0	10.4	
-45	1814	1786	1745	1689	1606	1506	1378	1222	1039	839	644	465	314	194	107	50.7	17.3	11.1	
-40	1973	1940	1893	1830	1744	1643	1516	1344	1128	892	671	473	308	181	92.4	39.6	12.3	9.92	
-35	2095	2071	2026	1972	1891	1798	1679	1537	1353	1125	869	632	423	260	142	64.0	20.4	10.4	
-30	2203	2169	2119	2057	1970	1860	1739	1592	1403	1153	870	614	397	233	119	48.7	12.2	9.33	
-25	2288	2261	2215	2156	2075	1978	1858	1722	1554	1342	1059	772	518	317	172	75.6	23.2	9.57	
-20	2360	2315	2269	2196	2109	1999	1873	1728	1549	1318	1012	716	465	270	136	53.1	11.7	8.65	
-15	2404	2376	2330	2270	2187	2084	1966	1829	1660	1463	1187	871	587	358	193	83.9	25.1	8.66	
-10	2432	2402	2350	2279	2189	2078	1955	1802	1625	1408	1106	785	509	296	150	57.7	11.6	7.82	
-5	2443	2417	2375	2310	2226	2125	2005	1864	1698	1503	1237	910	614	373	200	86.8	25.4	7.72	
0	2440	2402	2355	2274	2188	2081	1948	1798	1623	1405	1106	783	509	295	147	55.7	10.3	6.96	
5	2412	2386	2344	2277	2198	2099	1977	1835	1673	1474	1206	884	599	364	196	84.5	24.2	6.82	
10	2370	2337	2282	2221	2134	2024	1897	1748	1574	1350	1048	743	484	282	143	54.4	9.72	6.14	
15	2308	2284	2239	2180	2100	2002	1883	1742	1579	1374	1096	802	544	333	179	77.3	21.7	6.05	
20	2228	2199	2151	2082	1991	1891	1762	1612	1435	1195	904	641	420	244	123	46.9	7.92	5.51	
25	2131	2104	2065	2005	1927	1834	1719	1577	1408	1184	921	673	455	281	152	65.7	17.7	5.43	
30	2014	1982	1937	1873	1790	1691	1568	1415	1218	969	733	517	340	201	102	40.2	6.70	4.98	
35	1873	1847	1808	1748	1674	1580	1462	1308	1127	917	708	519	352	218	119	52.4	13.2	4.93	
40	1713	1686	1635	1570	1487	1382	1240	1061	876	695	528	377	247	147	73.7	29.3	5.33	4.54	
45	1495	1468	1423	1362	1284	1187	1071	930	779	628	487	359	245	153	83.6	38.0	8.52	4.52	
50	1258	1220	1165	1097	1007	905	794	678	562	447	341	245	163	98.2	50.8	19.3	4.69	4.23	
55	963	941	902	854	793	720	639	553	467	377	295	218	150	94.7	53.0	23.5	5.62	4.23	
60	655	635	603	567	522	471	416	360	301	242	186	135	89.2	54.6	29.1	8.72	4.32	4.06	
65	452	442	425	404	377	345	309	271	231	189	148	110	76.8	48.8	27.1	10.7	4.50	4.08	
70	244	238	230	219	206	190	172	151	127	103	78.8	58.1	40.5	24.1	10.2	4.69	4.18	4.00	
75	154	152	148	143	135	125	114	100	85.6	69.5	53.4	39.3	27.4	17.8	9.89	5.05	4.28	4.07	
80	63.7	63.3	61.7	59.3	56.0	51.1	45.1	38.4	31.0	23.4	16.2	10.1	5.95	4.69	4.51	4.39	4.15	4.09	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2022-6-1

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290

Humidity:65.0%

Test Distance:11.710m [K=1.0000]

Remarks: