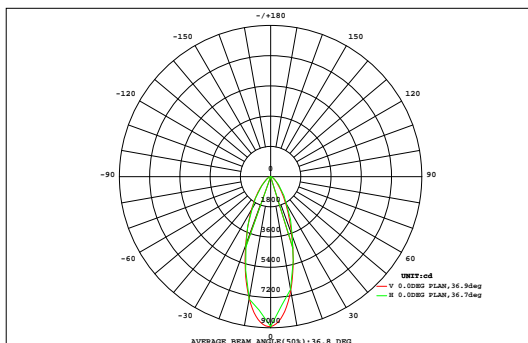


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.1848A P:40.47W PF:0.9896 Lamp Flux:5477.74x1 lm		
NAME: EV45B303	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integratech	SUR.:185*170mm	PROTECTION ANGLE:



DATA OF LAMP		Eff:135.34lm/W	
MODEL	EV45B303	Imax(cd)	8921
NOMINAL POWER(W)	45	AVAILABILITY(%)	82.9
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	4542
NOMINAL FLUX(lm)	5477.74	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	5478
TEST VOLTAGE(V)	220	θ @50%(H,V)	37,37DEG

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	0.01	0.04	0.14	0.37	0.69	1.07	1.40	1.64	1.77	1.77	1.64	1.41	1.10	0.74	0.42	0.18	0.05	0.01	14.5	0.00
70	0.01	0.08	0.32	0.77	1.45	2.27	3.10	3.74	4.08	4.06	3.70	3.09	2.29	1.49	0.82	0.36	0.10	0.01	31.7	0.00
60	0.01	0.14	0.55	1.39	2.75	4.50	6.38	7.96	8.92	8.91	7.97	6.38	4.48	2.74	1.44	0.59	0.16	0.02	65.3	0.00
50	0.02	0.21	0.83	2.22	4.55	7.75	11.6	15.7	18.6	18.7	16.1	12.0	7.90	4.55	2.22	0.86	0.22	0.02	124	0.00
40	0.02	0.28	1.14	3.17	6.76	12.3	20.8	30.9	38.6	39.2	32.1	21.9	13.0	6.85	3.13	1.14	0.28	0.03	232	137
30	0.03	0.33	1.43	4.10	9.19	19.0	36.2	58.2	77.1	79.9	62.6	38.4	20.0	9.52	4.07	1.41	0.34	0.03	422	363
20	0.03	0.38	1.69	4.91	11.8	27.4	56.1	98.2	141	151	112	61.1	28.4	12.1	4.84	1.61	0.37	0.03	713	667
10	0.04	0.41	1.82	5.39	13.8	34.1	73.3	139	216	232	162	80.7	34.8	13.9	5.30	1.74	0.40	0.03	1014	973
0	0.04	0.41	1.84	5.44	14.2	35.6	78.0	152	236	247	167	81.7	34.9	13.8	5.26	1.72	0.39	0.03	1075	1034
-10	0.03	0.39	1.71	5.01	12.6	30.4	64.6	118	171	174	120	63.5	28.9	12.0	4.78	1.60	0.38	0.03	810	765
-20	0.03	0.35	1.50	4.28	10.1	22.2	43.4	71.4	92.4	90.0	66.4	39.6	20.0	9.31	3.96	1.37	0.34	0.03	477	422
-30	0.03	0.30	1.22	3.37	7.40	14.0	24.4	36.5	44.4	43.0	33.7	22.1	12.8	6.75	3.07	1.13	0.29	0.03	255	176
-40	0.03	0.26	0.94	2.44	4.99	8.58	13.0	17.3	19.8	19.1	15.8	11.6	7.73	4.46	2.18	0.86	0.24	0.03	129	5.12
-50	0.03	0.20	0.67	1.59	3.02	4.87	6.83	8.30	8.92	8.65	7.65	6.20	4.41	2.72	1.44	0.62	0.19	0.03	66.3	0.00
-60	0.03	0.14	0.44	0.95	1.66	2.49	3.28	3.81	4.05	3.97	3.59	3.01	2.25	1.47	0.83	0.39	0.14	0.03	32.5	0.00
-70	0.02	0.09	0.24	0.48	0.80	1.14	1.41	1.57	1.64	1.61	1.49	1.29	1.00	0.69	0.41	0.21	0.09	0.03	14.2	0.00
-80	0.01	0.03	0.06	0.12	0.21	0.28	0.32	0.34	0.33	0.31	0.28	0.24	0.17	0.11	0.06	0.04	0.03	0.01	2.96	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	0.43	4.04	16.5	46.0	106	228	444	765	1085	1123	814	454	224	103	44.2	15.8	4.02	0.44	5478	---
Φ a	0.00	0.00	0.00	0.00	14.2	131	367	694	1018	1054	742	380	129	11.1	0.00	0.00	0.00	0.00	---	4542

one-half-peak spread: U:19.6,D:17.5 , L:18.8,R:18.4

NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-05-31

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=0.9863]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.1848A P:40.47W PF:0.9896 Lamp Flux:5477.74x1 lm		
NAME: EV45B303	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integrattech	SUR.:185*170mm	PROTECTION ANGLE:

Conical surface Flux(90deg):

4765.7 lm

%lum = 87.0%

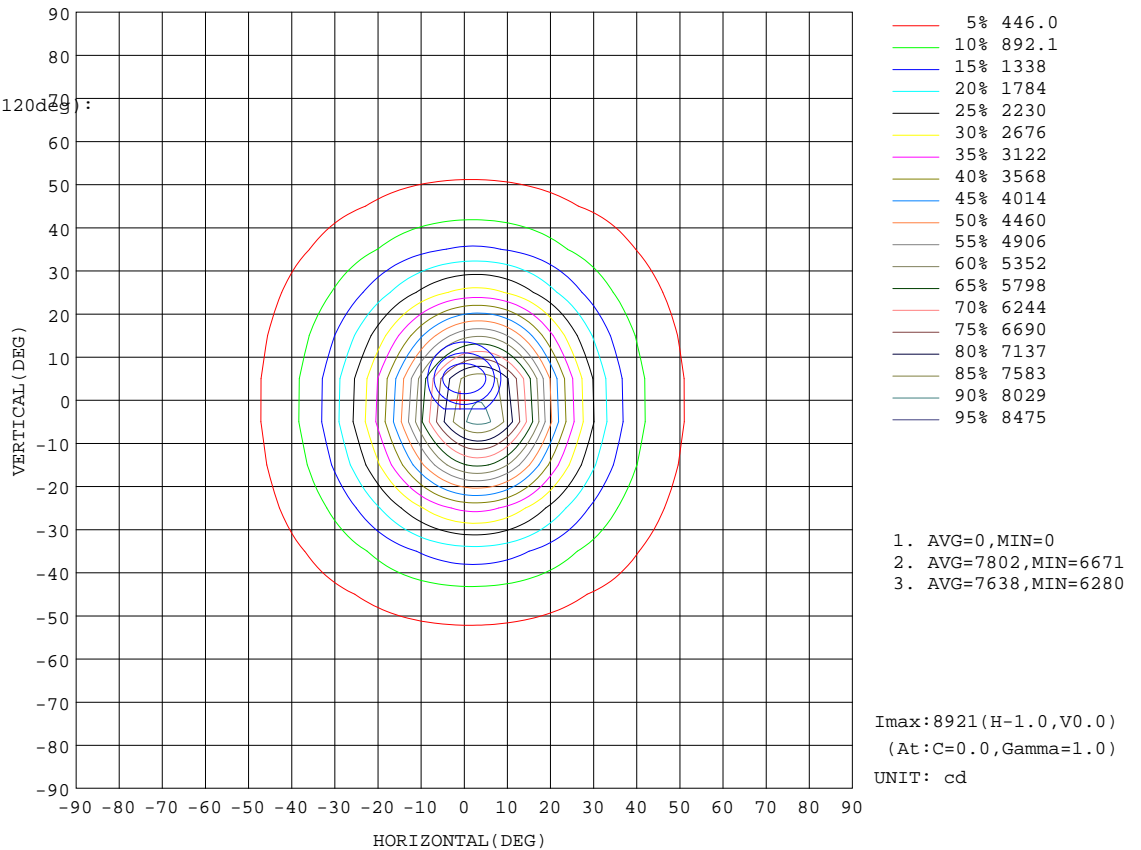
%lamp = 87.0%

Conical surface Flux(120deg):

5266.3 lm

%lum = 96.1%

%lamp = 96.1%

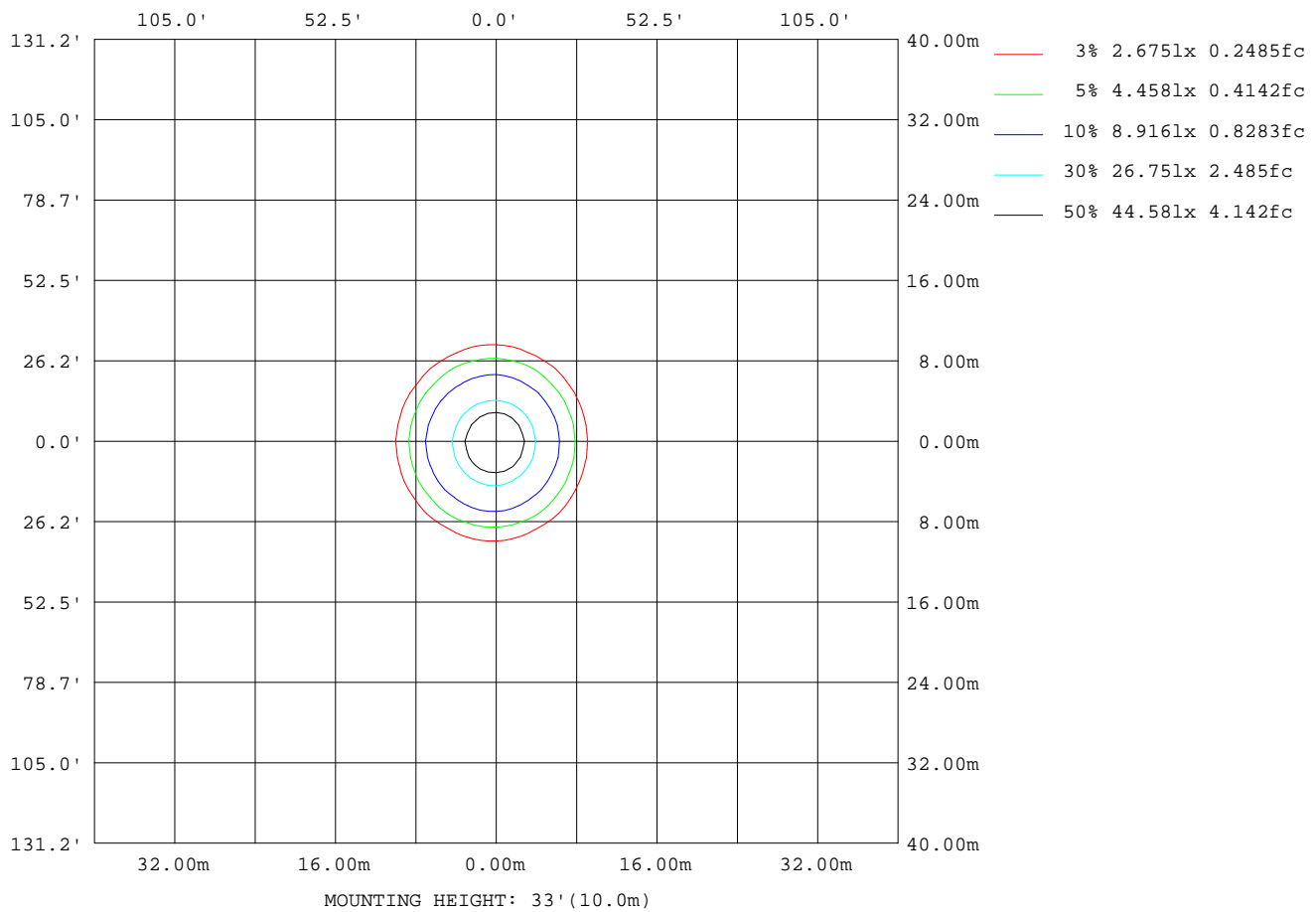


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-05-31

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=0.9863]
Remarks:

ISOLUX DIAGRAM

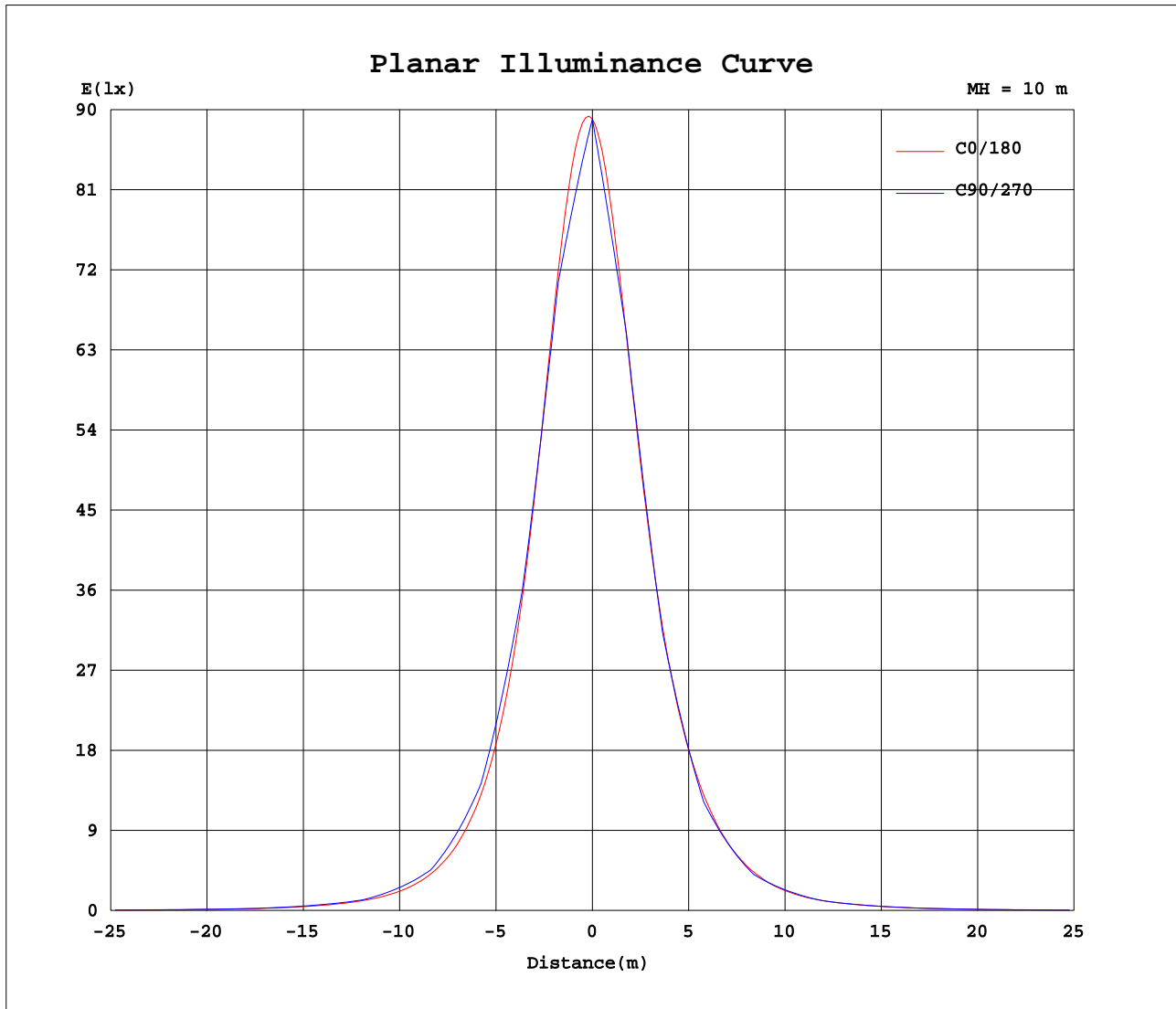
Test:U:220.2V I:0.1848A P:40.47W PF:0.9896 Lamp Flux:5477.74x1 lm		
NAME: EV45B303	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integratech	SUR.:185*170mm	PROTECTION ANGLE:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-05-31

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=0.9863]
Remarks:

Planar Illuminance Curve

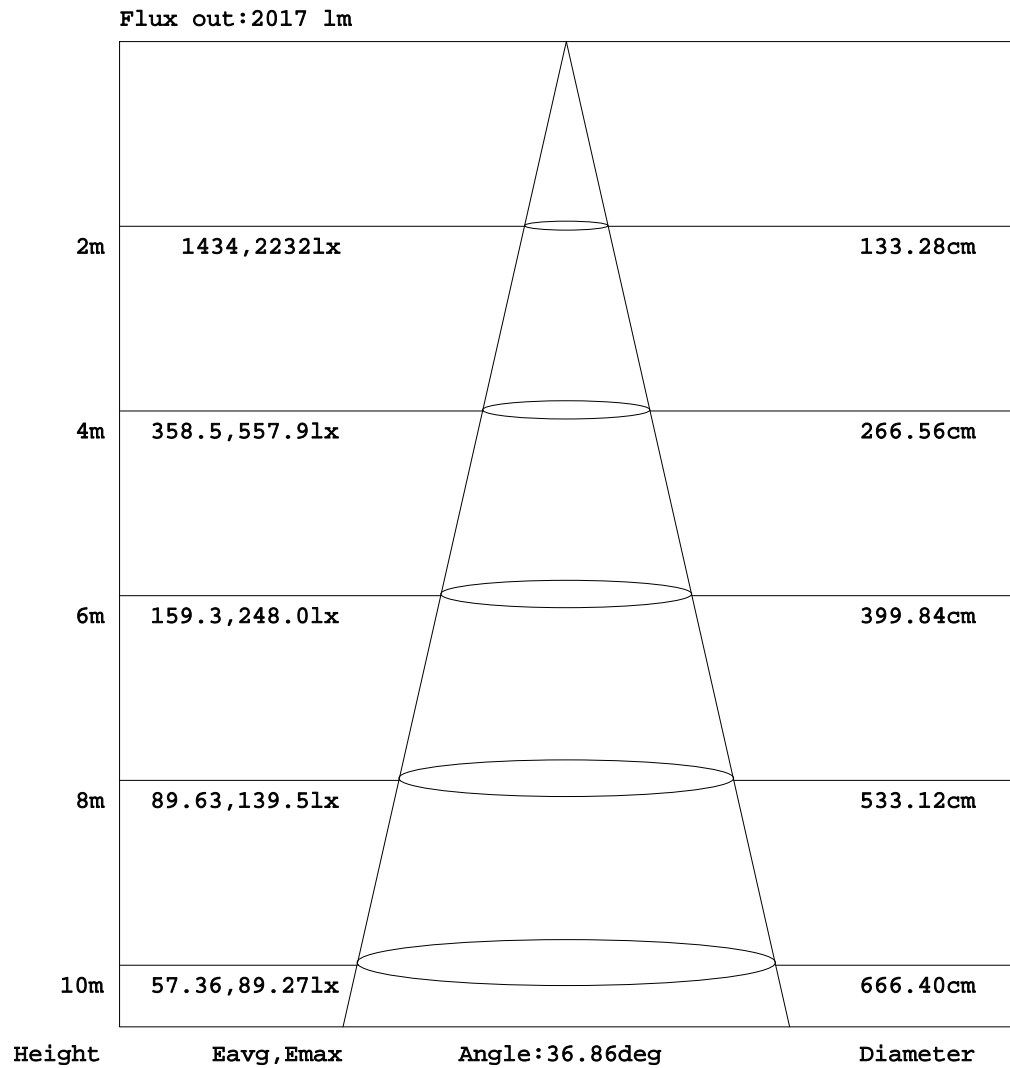


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-05-31

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=0.9863]
Remarks:

AAI Figure

Test:U:220.2V I:0.1848A P:40.47W PF:0.9896 Lamp Flux:5477.74x1 lm		
NAME: EV45B303	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: 2022-05-31

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=0.9863]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.1848A P:40.47W PF:0.9896 Lamp Flux:5477.74x1 lm		
NAME: EV45B303	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	7.99	8.37	8.56	8.74	9.66	11.8	14.6	17.8	21.3	24.8	27.9	30.5	32.5	33.9	34.7	35.2	35.3	35.1	34.9
-75	7.74	8.40	8.83	9.91	12.2	15.7	20.1	25.3	30.7	36.2	41.6	46.7	51.2	54.9	57.8	59.8	61.1	62.0	62.3
-70	8.52	9.12	10.6	14.7	20.2	26.6	33.9	41.4	48.7	56.2	63.6	70.3	76.0	80.6	84.1	86.6	88.4	89.5	89.3
-65	7.89	8.67	9.74	13.8	20.3	28.4	38.0	48.7	60.3	72.5	85.0	97.6	110	121	131	139	144	148	150
-60	8.50	9.58	15.0	23.1	33.1	45.3	59.1	74.4	91.2	109	127	145	162	178	191	200	206	210	210
-55	7.44	8.22	10.8	18.7	29.4	42.8	59.3	79.1	102	127	155	184	214	244	272	295	314	327	333
-50	7.64	9.98	18.8	30.9	46.7	66.2	90.6	120	153	190	229	271	315	355	391	422	444	455	454
-45	6.41	7.11	11.9	23.2	38.5	58.4	84.3	118	158	204	256	314	379	451	524	597	663	710	735
-40	6.30	10.5	22.4	39.2	61.3	90.9	130	178	236	301	376	460	559	665	775	879	961	1010	1011
-35	5.20	5.81	12.8	27.1	47.0	74.1	111	160	221	296	384	493	629	799	990	1191	1377	1521	1600
-30	5.04	10.7	25.1	45.9	74.7	115	169	237	325	429	563	740	968	1236	1527	1805	2033	2172	2191
-25	4.27	4.84	13.7	30.7	54.8	89.4	138	202	283	389	534	733	1001	1342	1747	2193	2638	3012	3233
-20	4.30	11.5	28.2	52.8	88.2	139	207	293	406	573	811	1142	1570	2087	2677	3298	3862	4238	4314
-15	3.80	4.39	14.6	33.6	61.1	102	160	236	334	471	682	989	1408	1947	2622	3444	4356	5212	5768
-10	4.09	11.9	29.9	56.6	96.6	155	231	332	471	692	1025	1487	2088	2869	3865	5043	6256	7143	7402
-5	3.79	4.43	15.3	35.4	64.9	110	174	256	364	525	781	1160	1672	2344	3221	4363	5722	7058	7975
0	4.24	12.6	31.4	59.2	102	164	244	348	499	749	1122	1628	2302	3186	4367	5837	7368	8546	8916
5	4.03	4.67	15.5	35.6	65.1	110	174	257	364	522	775	1145	1644	2292	3138	4222	5516	6783	7676
10	4.50	12.3	30.3	57.1	97.3	156	233	333	468	681	1002	1436	1999	2712	3604	4658	5719	6548	6822
15	4.21	4.79	14.9	33.9	61.5	103	162	237	334	464	665	954	1341	1833	2433	3150	3944	4684	5192
20	4.59	11.7	28.4	52.9	88.8	141	208	293	400	556	776	1075	1453	1897	2391	2908	3372	3691	3769
25	4.21	4.67	13.4	30.3	54.4	89.3	139	202	281	380	513	694	936	1236	1578	1948	2311	2616	2801
30	4.41	9.97	24.2	44.9	73.7	115	169	235	316	410	531	690	890	1117	1353	1574	1752	1863	1880
35	4.01	4.29	11.1	25.1	45.0	72.2	110	159	217	287	367	464	585	733	896	1061	1210	1324	1386
40	3.99	8.00	19.6	36.2	58.3	88.2	128	175	229	289	355	428	513	609	704	791	857	894	895
45	3.59	3.79	8.42	19.3	34.4	54.3	80.4	114	154	198	247	299	355	418	483	546	601	641	660
50	3.48	5.54	14.0	25.8	41.4	61.0	85.5	115	148	184	221	259	297	332	364	392	412	423	422
55	3.13	3.28	5.62	13.2	23.6	36.9	53.4	73.3	96.6	122	149	177	205	232	257	278	295	307	312
60	3.03	3.66	8.88	16.7	26.6	38.6	52.5	68.0	85.2	103	122	140	158	172	184	192	198	201	200
65	2.75	2.88	3.61	7.61	13.9	21.9	31.2	41.9	53.6	66.1	79.0	92.1	105	116	126	133	138	142	143
70	2.69	2.81	4.27	8.37	13.7	19.9	26.9	34.4	41.9	49.5	56.9	64.0	70.3	75.8	79.9	82.7	84.5	85.6	85.5
75	2.55	2.62	2.74	3.82	6.23	9.78	14.2	19.2	24.6	30.0	35.4	40.6	45.2	49.2	52.5	54.9	56.5	57.5	58.0
80	2.53	2.57	2.70	2.94	4.26	6.57	9.41	12.6	16.0	19.2	22.2	24.6	26.5	28.1	29.1	29.7	30.2	30.4	30.4
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:2022-05-31

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=0.9863]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.1848A P:40.47W PF:0.9896 Lamp Flux:5477.74x1 lm																	
NAME: EV45B303									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	34.4	33.6	32.7	31.3	29.5	27.3	24.8	22.1	19.3	16.4	13.8	11.6	10.0	9.40	9.35	9.29	8.98	8.05	
-75	62.0	60.9	59.3	57.1	54.5	51.1	46.9	42.2	37.3	32.2	27.1	22.5	18.5	15.1	12.4	10.5	9.84	9.31	
-70	88.0	85.6	82.7	78.9	74.1	68.2	61.6	54.5	47.1	39.8	32.9	26.8	21.4	16.4	12.3	10.5	9.99	8.99	
-65	149	145	140	133	125	115	104	91.1	78.5	66.2	54.6	44.0	34.5	26.4	19.6	14.0	10.7	9.95	
-60	205	196	186	174	160	144	126	107	90.1	74.0	59.2	45.8	34.4	25.3	17.7	11.6	10.3	9.34	
-55	331	320	303	282	258	230	201	172	143	117	93.2	72.2	54.2	39.5	27.7	18.6	11.4	9.70	
-50	440	417	387	352	312	271	229	190	154	121	93.2	69.2	49.8	34.4	22.8	13.3	9.46	8.62	
-45	729	696	640	572	498	424	355	293	236	185	142	106	76.2	53.0	35.2	22.0	11.7	8.44	
-40	968	888	785	673	565	467	380	303	234	178	131	93.8	64.5	42.3	25.9	13.9	7.72	7.11	
-35	1593	1501	1340	1145	941	753	592	459	354	268	198	142	99.4	66.7	42.4	24.7	11.9	6.72	
-30	2082	1864	1584	1289	1012	777	588	442	333	243	174	120	80.3	50.9	29.6	14.8	5.98	5.41	
-25	3234	3007	2602	2123	1657	1251	922	669	487	356	255	178	121	79.1	48.7	27.1	12.1	5.22	
-20	4054	3520	2854	2205	1641	1186	840	594	426	304	210	141	92.4	56.7	32.0	15.0	4.75	4.34	
-15	5826	5360	4483	3470	2563	1840	1297	895	620	433	304	208	139	89.3	53.7	29.1	12.4	4.21	
-10	6923	5836	4484	3259	2298	1601	1089	739	503	350	240	160	103	62.7	34.6	15.7	4.03	3.61	
-5	8118	7410	6069	4541	3229	2244	1544	1042	703	480	333	226	149	94.7	56.4	30.0	12.4	3.57	
0	8295	6899	5190	3673	2537	1729	1165	782	530	367	249	165	105	63.0	34.5	15.2	3.49	3.20	
5	7834	7173	5894	4427	3155	2200	1516	1030	698	478	332	225	149	94.6	56.1	29.7	12.0	3.15	
10	6431	5455	4233	3097	2201	1538	1061	726	500	349	239	160	103	62.1	34.0	14.9	3.24	2.85	
15	5275	4892	4129	3227	2401	1739	1237	867	608	430	303	207	138	88.5	52.8	28.0	11.2	2.92	
20	3573	3141	2577	2014	1516	1114	803	579	421	303	209	141	91.4	55.8	30.6	13.3	3.02	2.77	
25	2811	2635	2308	1907	1509	1155	867	641	475	351	253	177	120	77.7	47.0	25.1	10.0	2.87	
30	1794	1622	1400	1158	925	725	560	428	326	239	172	118	78.7	48.9	27.2	12.1	2.98	2.80	
35	1381	1309	1181	1022	856	697	557	440	342	261	194	140	96.9	64.4	39.5	21.5	8.50	2.93	
40	861	796	712	620	529	443	364	292	227	173	128	90.7	61.5	38.8	22.0	9.64	3.03	2.89	
45	656	629	584	527	464	401	339	280	226	178	137	102	72.6	49.3	30.8	17.2	6.57	2.98	
50	412	392	366	334	297	258	219	181	147	116	88.6	65.0	45.5	29.4	17.2	7.33	3.02	2.92	
55	310	301	287	269	246	220	192	164	136	111	88.4	67.9	49.8	34.5	22.2	12.5	4.60	2.92	
60	195	188	179	168	154	137	120	102	85.3	69.4	54.9	41.3	29.2	19.5	11.4	4.43	2.90	2.77	
65	142	139	134	128	120	110	98.5	86.3	74.1	62.2	50.7	40.0	30.0	21.3	13.9	7.41	3.21	2.80	
70	84.1	81.7	78.7	75.0	70.3	64.5	57.9	50.9	43.7	36.5	29.2	22.4	16.7	11.0	5.84	2.93	2.74	2.68	
75	57.9	56.9	55.4	53.4	50.8	47.7	43.7	39.2	34.4	29.5	24.4	19.2	14.4	10.3	6.49	3.84	2.75	2.66	
80	30.2	29.7	29.0	27.9	26.4	24.6	22.3	19.9	17.2	14.4	11.3	8.08	5.37	3.32	2.74	2.68	2.60	2.56	
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:2022-05-31

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=0.9863]

Remarks: