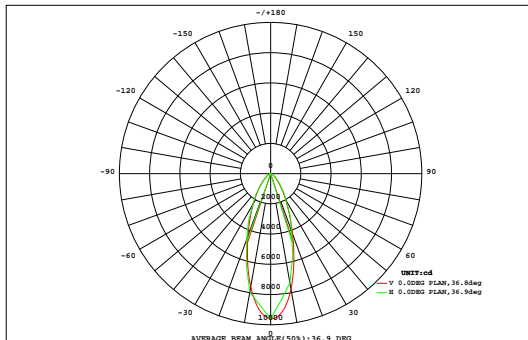


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.1854A P:40.40W PF:0.9897 Lamp Flux:5882.84x1 lm		
NAME: EV45B305	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integratech	SUR.:185*170mm	PROTECTION ANGLE:



DATA OF LAMP		Eff:145.62lm/W	
MODEL	EV45B305	Imax(cd)	9593
NOMINAL POWER(W)	45	AVAILABILITY(%)	82.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	4873
NOMINAL FLUX(lm)	5882.84	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	5883
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	0.16	0.40	0.76	1.17	1.54	1.79	1.92	1.92	1.78	1.53	1.18	0.79	0.45	0.19	0.05	0.01	15.7	0.00
70	0.01	0.09	0.35	0.85	1.58	2.48	3.39	4.07	4.43	4.40	3.99	3.33	2.46	1.59	0.88	0.38	0.10	0.01	34.4	0.00
60	0.01	0.15	0.60	1.53	3.00	4.90	6.95	8.66	9.66	9.61	8.56	6.84	4.79	2.93	1.53	0.62	0.17	0.01	70.5	0.00
50	0.02	0.22	0.90	2.42	4.95	8.42	12.7	17.1	20.1	20.1	17.2	12.8	8.41	4.83	2.35	0.91	0.23	0.02	134	0.00
40	0.03	0.30	1.23	3.44	7.32	13.4	22.6	33.6	41.7	42.1	34.2	23.1	13.7	7.24	3.31	1.21	0.30	0.02	249	148
30	0.03	0.36	1.54	4.42	9.95	20.7	39.3	63.4	83.7	85.9	66.4	40.4	21.0	10.0	4.30	1.49	0.35	0.03	453	390
20	0.03	0.41	1.81	5.27	12.7	29.7	60.9	107	154	162	118	64.2	29.9	12.8	5.12	1.71	0.39	0.03	767	717
10	0.04	0.43	1.94	5.76	14.7	36.6	78.9	151	234	250	172	85.2	36.7	14.6	5.61	1.84	0.42	0.03	1090	1045
0	0.04	0.43	1.95	5.78	15.1	37.9	83.0	162	254	267	180	87.2	37.1	14.6	5.60	1.82	0.42	0.03	1155	1111
-10	0.03	0.41	1.80	5.32	13.3	32.1	68.3	125	183	188	131	68.6	31.1	12.9	5.11	1.70	0.40	0.03	869	821
-20	0.03	0.37	1.57	4.52	10.6	23.1	45.6	75.2	98.4	97.4	72.6	43.2	21.7	10.1	4.26	1.47	0.36	0.03	511	452
-30	0.03	0.32	1.28	3.55	7.77	14.7	25.6	38.5	47.2	46.4	36.8	24.2	13.9	7.31	3.31	1.21	0.31	0.03	272	185
-40	0.03	0.27	0.99	2.57	5.27	9.05	13.7	18.2	21.1	20.6	17.2	12.7	8.42	4.86	2.36	0.93	0.26	0.03	139	5.18
-50	0.03	0.21	0.70	1.67	3.18	5.14	7.21	8.79	9.51	9.31	8.29	6.74	4.79	2.96	1.56	0.67	0.21	0.03	71.0	0.00
-60	0.03	0.15	0.46	1.00	1.75	2.62	3.46	4.05	4.32	4.27	3.87	3.26	2.45	1.60	0.91	0.42	0.15	0.03	34.8	0.00
-70	0.02	0.09	0.24	0.51	0.84	1.20	1.49	1.67	1.75	1.73	1.61	1.39	1.09	0.75	0.44	0.23	0.09	0.03	15.2	0.00
-80	0.01	0.03	0.06	0.12	0.20	0.28	0.33	0.35	0.35	0.34	0.31	0.26	0.20	0.13	0.08	0.05	0.03	0.01	3.16	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	0.44	4.28	17.6	49.1	113	243	475	821	1170	1212	874	485	239	110	47.2	16.8	4.25	0.45	5883	---
Φ a	0.00	0.00	0.00	0.00	7.50	142	394	744	1099	1141	799	405	138	4.48	0.00	0.00	0.00	0.00	---	4873

one-half-peak spread: U:19.6,D:17.6 , 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=1.0171]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:220.2V I:0.1854A P:40.40W PF:0.9897 Lamp Flux:5882.84x1 lm		
NAME: EV45B305	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integrattech	SUR.:185*170mm	PROTECTION ANGLE:

Conical surface Flux(90deg):

5115.2 lm

%lum = 87.0%

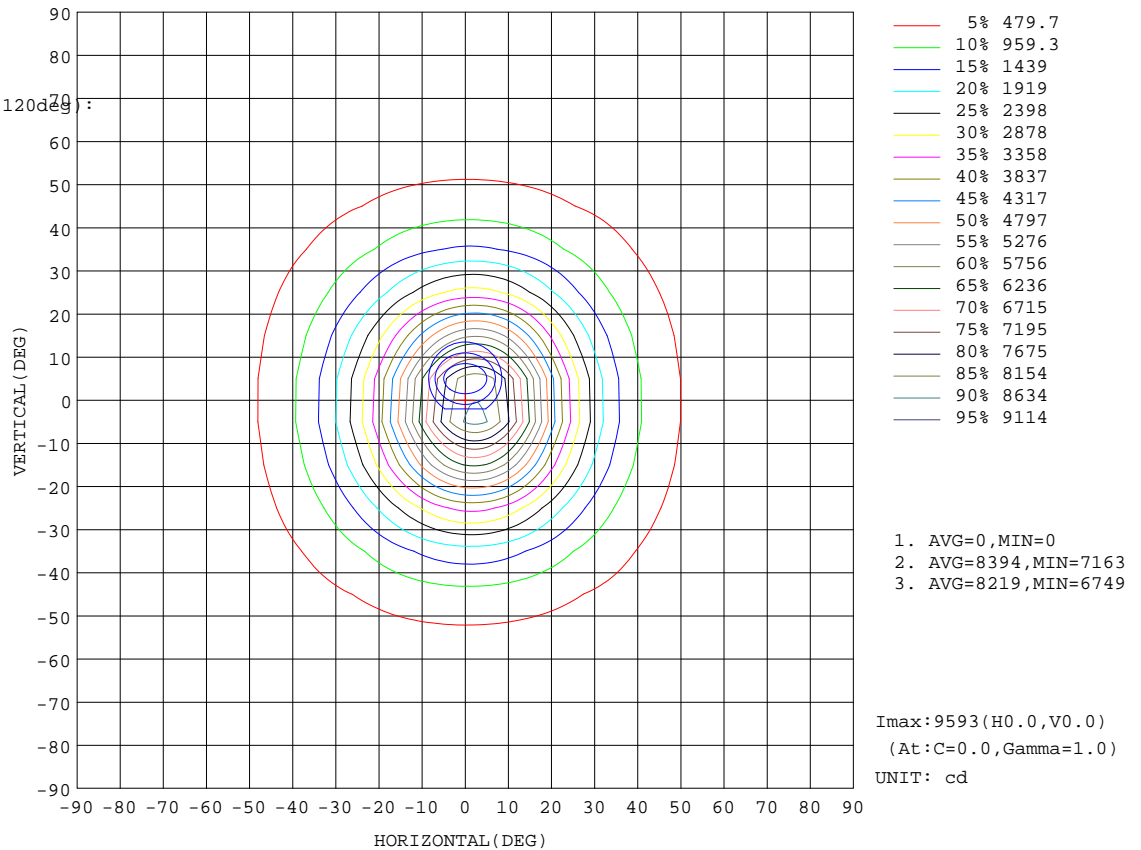
%lamp = 87.0%

Conical surface Flux(120deg):

5652.5 lm

%lum = 96.1%

%lamp = 96.1%



H( $\beta$ ) Range:-90 - 90DEG

H( $\beta$ ) 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

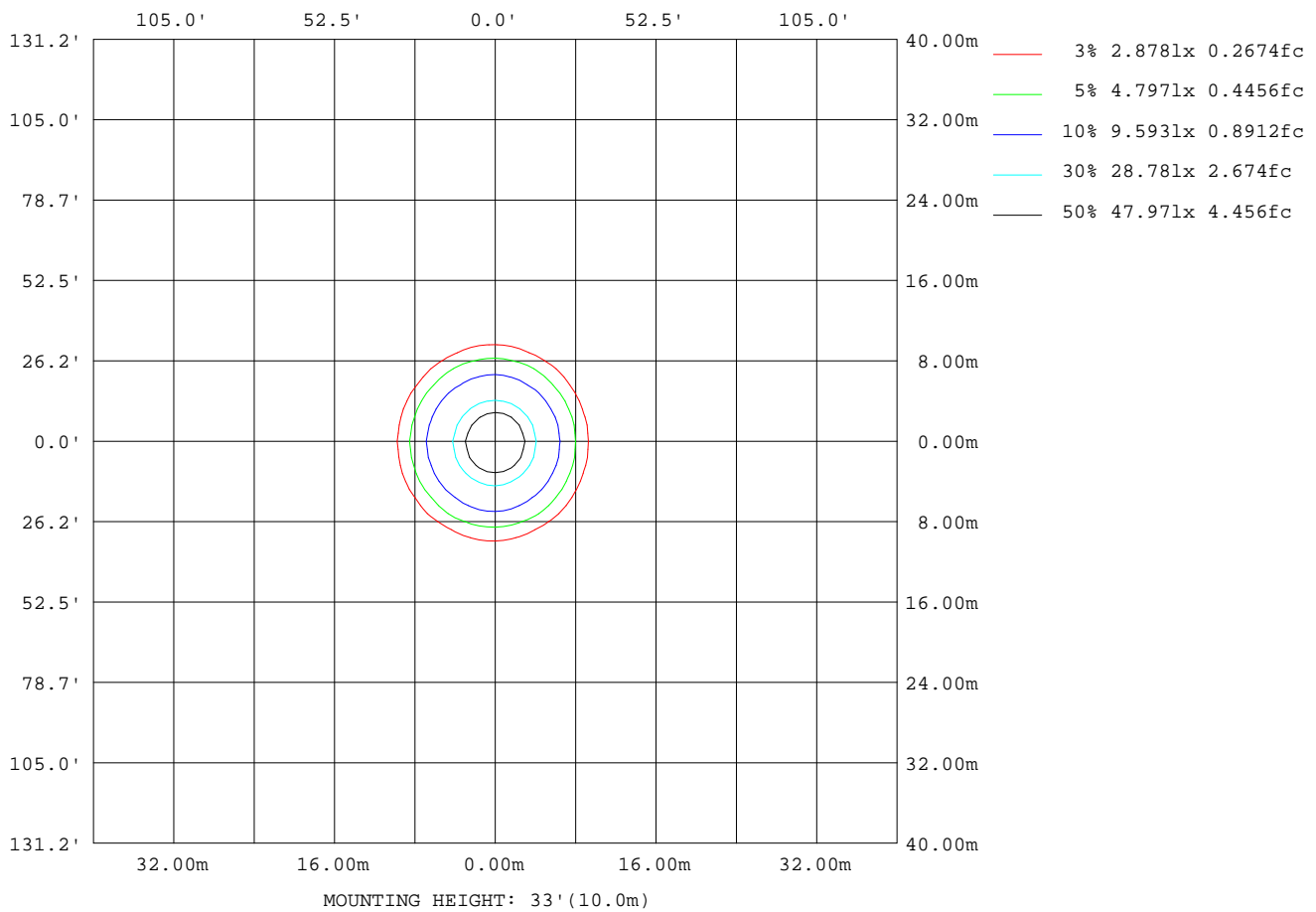
Humidity:65.0%

Test Distance:11.710m [K=1.0171]

Remarks:

ISOLUX DIAGRAM

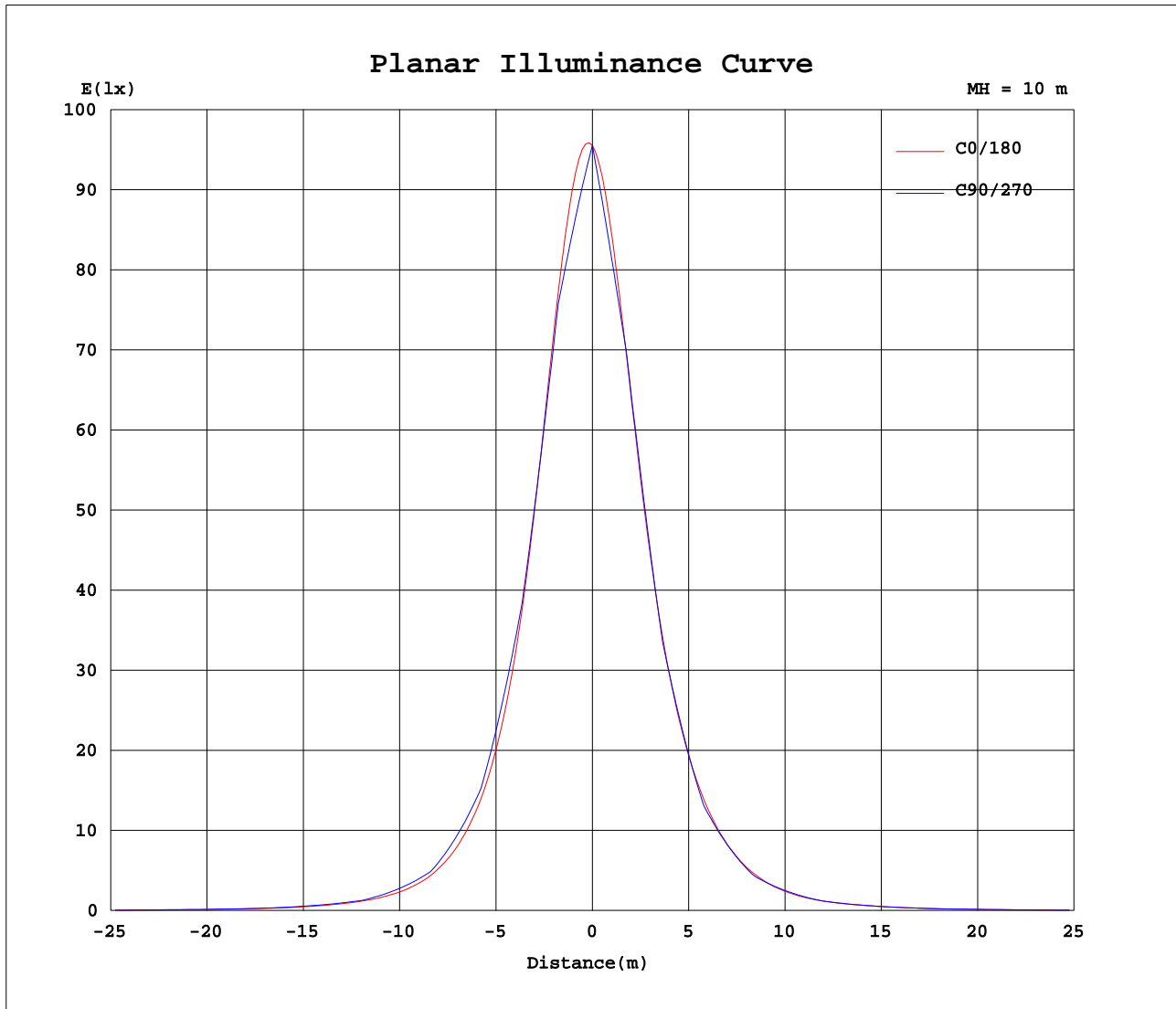
Test:U:220.2V I:0.1854A P:40.40W PF:0.9897 Lamp Flux:5882.84x1 lm		
NAME: EV45B305	TYPE:	WEIGHT:2.48KG
SPEC.:	DIM.: 347*244*69mm	SERIAL No.:1
MFR.: Integratech	SUR.:185*170mm	PROTECTION ANGLE:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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=1.0171]  
Remarks:

## Planar Illuminance Curve

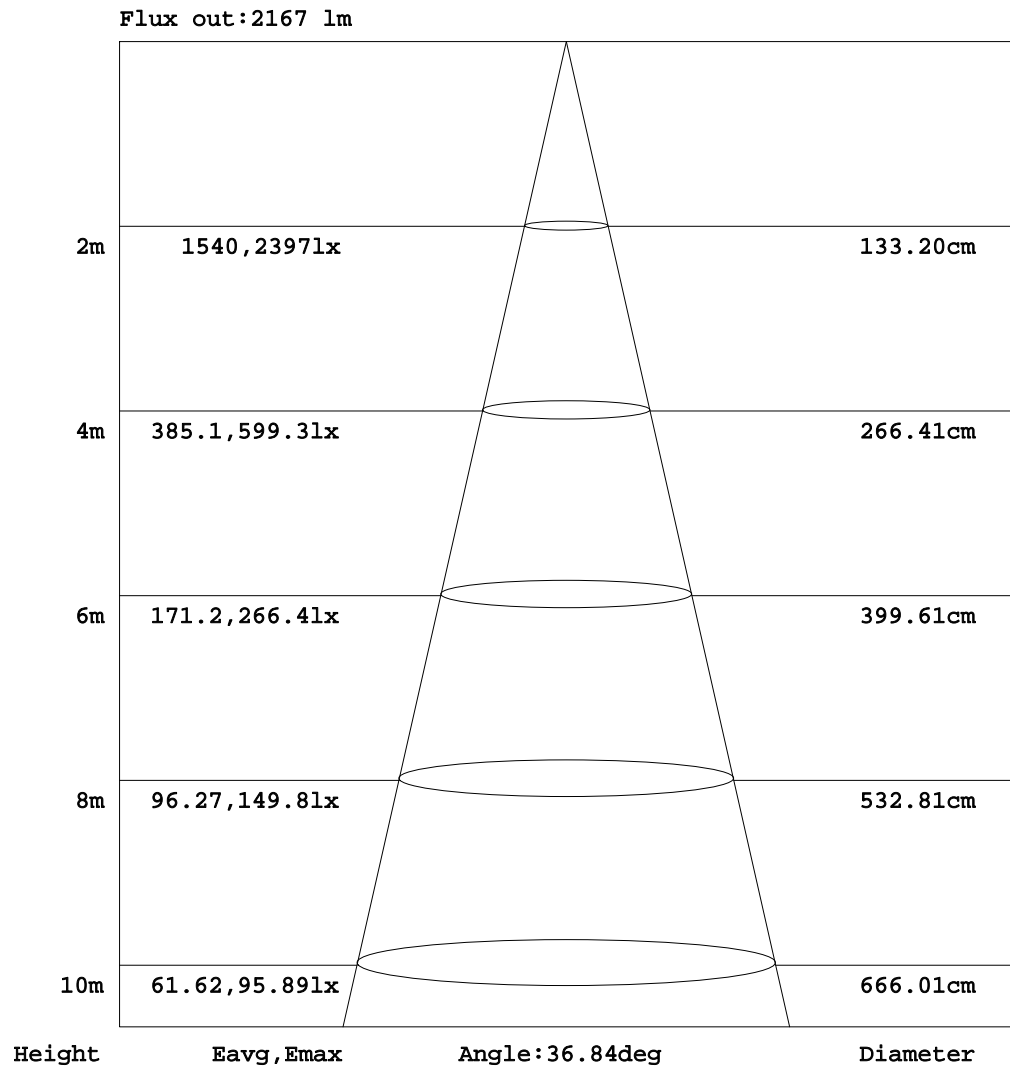


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-31

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=1.0171]  
Remarks:

AAI Figure

Test:U:220.2V I:0.1854A P:40.40W PF:0.9897 Lamp Flux:5882.84x1 lm		
NAME: EV45B305	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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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=1.0171]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.1854A P:40.40W PF:0.9897 Lamp Flux:5882.84x1 lm		
NAME: EV45B305	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	8.40	8.93	9.12	9.28	9.99	12.0	14.9	18.3	22.0	25.7	29.2	32.2	34.4	36.0	37.0	37.5	37.7	37.6	37.3
-75	8.41	9.13	9.54	11.0	13.7	17.6	22.6	28.1	33.9	39.8	45.6	51.0	55.4	59.3	62.3	64.2	65.5	66.3	66.6
-70	8.95	9.67	10.7	14.7	20.3	27.0	34.5	42.6	50.4	58.6	66.4	73.6	80.1	85.2	89.3	92.2	94.2	95.5	95.6
-65	8.64	9.44	11.0	16.0	23.2	32.3	42.8	54.6	67.0	80.2	93.8	107	120	132	142	150	155	159	160
-60	8.92	9.75	14.5	22.8	33.1	45.7	60.0	76.2	94.0	113	131	151	170	188	201	212	219	224	225
-55	8.14	8.97	12.9	22.0	34.0	49.1	67.4	89.3	115	142	172	203	236	268	296	321	340	352	357
-50	8.04	9.38	17.9	30.2	46.3	66.3	91.4	122	157	195	237	282	328	372	412	446	471	486	487
-45	7.00	7.80	14.8	27.6	45.0	67.4	96.7	134	178	230	287	351	420	499	577	654	721	768	788
-40	6.62	9.17	21.0	37.9	60.2	90.1	130	180	240	308	386	473	578	688	805	920	1013	1074	1085
-35	5.71	6.45	16.3	32.7	55.3	86.3	129	184	251	334	432	553	706	896	1101	1315	1511	1651	1719
-30	5.32	8.94	23.3	44.2	73.0	113	169	237	326	433	571	751	984	1262	1571	1879	2131	2304	2354
-25	4.70	5.53	17.7	37.3	65.0	105	160	232	323	443	608	834	1135	1518	1962	2445	2916	3291	3487
-20	4.53	9.45	25.9	50.4	85.5	137	206	293	408	572	806	1139	1578	2112	2734	3401	4030	4487	4641
-15	4.21	5.19	18.9	41.0	72.8	120	187	272	383	541	788	1139	1612	2220	2978	3887	4876	5753	6253
-10	4.32	9.76	27.4	54.1	93.5	152	230	333	469	684	1017	1483	2101	2896	3915	5155	6477	7535	7960
-5	4.19	5.40	19.8	43.2	77.5	129	202	296	418	607	910	1340	1920	2679	3678	4960	6449	7839	8678
0	4.48	10.4	28.7	56.4	98.0	160	243	348	495	740	1105	1623	2302	3195	4396	5924	7596	8992	9593
5	4.42	5.72	20.0	43.4	77.8	130	203	297	418	605	902	1322	1886	2617	3573	4796	6210	7539	8361
10	4.74	10.2	27.8	54.5	94.2	153	232	334	467	675	995	1437	2014	2746	3662	4768	5944	6906	7337
15	4.61	5.72	19.2	41.4	73.3	121	189	274	382	534	768	1096	1537	2086	2755	3552	4410	5181	5645
20	4.86	9.79	26.2	50.7	86.2	138	208	294	404	558	775	1082	1473	1936	2457	3014	3533	3919	4061
25	4.59	5.38	17.3	37.0	64.8	105	162	233	320	433	586	791	1065	1397	1771	2173	2556	2866	3031
30	4.66	8.33	22.3	43.2	72.1	113	169	237	321	419	542	704	911	1150	1401	1645	1850	1984	2027
35	4.35	4.78	14.4	30.7	53.4	84.7	128	183	248	325	413	522	658	823	998	1174	1330	1443	1495
40	4.22	6.68	18.1	34.8	57.2	87.6	128	178	235	297	367	444	532	634	736	833	909	957	966
45	3.90	4.15	10.9	23.5	40.8	63.3	93.1	131	175	223	276	333	395	465	534	601	657	696	712
50	3.71	4.61	12.9	24.9	41.0	61.0	86.4	118	153	190	230	271	312	351	386	417	440	454	456
55	3.41	3.58	7.30	16.1	28.0	43.0	61.6	83.8	110	138	167	197	228	256	282	304	322	333	337
60	3.24	3.48	8.10	16.1	26.2	39.0	53.5	70.0	88.3	108	128	148	167	184	197	206	213	217	217
65	3.00	3.13	4.40	9.35	16.5	25.5	35.9	47.7	60.6	74.3	88.3	102	116	128	138	145	151	154	155
70	2.87	2.97	3.96	7.98	13.5	20.0	27.5	35.6	43.7	51.8	60.1	67.9	75.0	81.2	85.8	89.1	91.4	92.8	92.8
75	2.77	2.85	3.03	4.52	7.35	11.4	16.3	21.9	27.8	33.7	39.6	45.1	50.0	54.2	57.5	60.0	61.6	62.6	63.0
80	2.73	2.77	2.90	3.06	4.17	6.51	9.49	12.9	16.6	20.2	23.5	26.2	28.5	30.2	31.4	32.2	32.7	33.0	33.1
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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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=1.0171]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.1854A P:40.40W PF:0.9897 Lamp Flux:5882.84x1 lm		
NAME: EV45B305	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	36.8	36.1	35.1	33.8	32.0	29.8	27.0	24.1	21.1	18.1	15.2	12.8	10.9	10.1	10.0	9.97	9.74	8.83	
-75	66.1	64.9	63.0	60.5	57.6	53.8	49.2	44.1	38.7	33.3	27.9	23.1	19.0	15.5	12.8	10.9	10.5	9.74	
-70	94.5	92.2	89.2	85.2	80.1	74.4	67.5	59.8	51.9	44.0	36.5	29.8	24.1	18.5	13.8	11.3	10.9	9.83	
-65	159	154	148	141	132	121	108	94.8	81.1	68.2	56.1	44.9	35.1	26.6	19.7	14.0	11.3	10.4	
-60	220	212	201	189	175	157	138	118	100	82.6	66.4	51.7	39.1	28.8	20.4	13.4	11.2	10.2	
-55	352	339	320	297	270	240	209	177	147	120	95.0	73.2	54.6	39.4	27.5	18.1	11.3	10.2	
-50	475	452	421	384	343	298	254	211	172	137	105	78.8	57.0	39.8	26.5	16.0	10.3	9.38	
-45	775	734	671	597	516	438	367	301	240	188	143	106	76.1	52.4	34.5	21.3	10.7	8.87	
-40	1049	970	863	745	627	519	423	340	265	202	150	108	74.7	49.5	30.6	17.2	8.41	7.72	
-35	1693	1576	1395	1184	964	768	600	467	358	271	199	143	98.6	65.4	41.2	23.5	10.2	7.06	
-30	2261	2052	1762	1441	1142	873	665	499	379	278	199	138	93.3	60.0	35.6	18.6	6.64	5.94	
-25	3438	3146	2688	2173	1680	1261	925	671	490	359	254	177	119	77.2	47.0	25.4	10.1	5.49	
-20	4432	3906	3204	2497	1869	1355	958	681	488	350	242	165	108	67.5	38.7	19.3	5.41	4.69	
-15	6198	5594	4592	3507	2573	1837	1289	887	618	433	302	207	137	86.8	51.6	26.9	10.2	4.44	
-10	7594	6537	5099	3729	2642	1840	1261	859	584	404	278	186	121	74.6	42.1	20.1	4.83	3.96	
-5	8643	7719	6188	4560	3220	2228	1529	1029	694	476	331	224	146	91.9	54.1	27.6	10.1	3.77	
0	9134	7761	5939	4238	2926	1999	1351	900	612	423	289	192	124	75.5	42.0	19.8	4.20	3.43	
5	8355	7485	6016	4454	3154	2188	1505	1020	689	476	331	223	146	91.8	53.8	27.3	9.72	3.33	
10	7061	6109	4807	3548	2532	1770	1232	837	580	403	277	186	121	74.2	41.5	19.3	4.11	3.11	
15	5634	5128	4244	3278	2422	1744	1236	865	607	432	301	206	136	86.2	50.7	25.7	8.96	3.09	
20	3909	3487	2893	2282	1726	1272	917	661	482	349	241	164	108	66.6	37.2	17.7	3.57	2.99	
25	3001	2774	2397	1960	1538	1171	877	646	480	354	252	176	119	75.9	45.3	23.2	7.96	3.05	
30	1954	1786	1552	1293	1041	816	632	484	370	274	197	137	91.9	58.1	33.1	15.8	3.41	3.00	
35	1475	1384	1236	1062	883	716	571	449	348	265	196	140	96.5	63.2	38.2	20.0	6.71	3.12	
40	936	872	785	687	588	495	408	329	257	197	147	105	72.0	46.2	26.5	13.0	3.34	3.09	
45	702	669	617	554	486	417	352	290	232	182	139	103	72.7	48.6	29.9	16.1	5.07	3.16	
50	447	428	401	368	329	287	244	203	167	132	101	74.8	52.8	34.8	20.7	9.73	3.29	3.15	
55	333	323	306	286	261	231	201	171	142	115	90.8	69.2	50.2	34.2	21.6	11.5	3.75	3.11	
60	213	205	196	185	170	152	133	114	95.8	78.5	62.5	47.5	34.0	22.8	13.9	6.04	3.16	3.02	
65	154	150	144	137	128	117	104	90.8	77.5	64.9	52.6	40.9	30.4	21.2	13.5	6.72	3.18	3.00	
70	91.6	89.2	86.1	82.3	77.2	71.3	64.2	56.7	49.0	41.1	33.2	25.6	19.2	13.0	7.25	3.31	3.00	2.89	
75	62.7	61.5	59.8	57.5	54.5	50.9	46.5	41.5	36.2	30.9	25.3	19.6	14.6	10.2	6.30	3.68	2.96	2.87	
80	33.0	32.5	31.7	30.5	29.1	27.1	24.8	22.1	19.3	16.2	12.9	9.36	6.33	3.92	2.98	2.92	2.84	2.78	
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( $\beta$ ) Range:-90 - 90DEG

H( $\beta$ ) 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=1.0171]

Remarks: