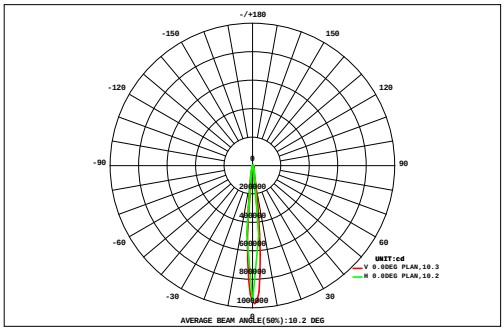
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		16849.2 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	20.1V x 20.0H
	At 50% of Imax	10.2V x 10.3H
	At 90% of Imax	3.7V x 4.5H
Beam Flux	Total	949.2 lumens per klm.
	To 10% of Imax	609.1 lumens per klm.
	To 50% of Imax	287.6 lumens per klm.
	To 90% of Imax	28.4 lumens per klm.
	Upward LOR	0.0 %
	Downward LOR	94.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.7V I:2.302A P:499.8W PF:0.9793 Freq:49.79Hz Lamp Flux:57574.9x1 lm		
NAME: ITSP4500104000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:115.21lm/W	
MODEL		Imax(cd)	970091
NOMINAL POWER(W)	500	AVAILABILITY(%)	68.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	39625
NOMINAL FLUX(lm)	57574.9	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	57575
TEST VOLTAGE(V)	221.0	q @50%(H,V)	10,10DEG

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG) 20	30	40	50	60	70	80	90	F t	F a
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
80	0.15	0.55	1.19	2.17	3.42	4.89	6.48	7.86	8.76	8.85	8.06	6.76	5.15	3.63	2.34	1.31	0.60	0.16	72.3	0.00
70	0.12	0.59	1.80	3.92	6.77	10.5	14.8	18.9	21.7	21.7	19.2	15.3	11.0	7.14	4.20	2.00	0.69	0.13	160	0.00
60	0.13	0.86	2.92	6.66	12.0	19.4	28.3	37.5	44.6	44.5	38.2	29.6	20.7	12.8	7.11	3.17	0.96	0.14	310	0.00
50	0.17	1.23	4.37	10.4	19.4	31.5	44.1	58.9	75.9	78.6	62.4	47.0	33.9	21.1	10.9	4.54	1.28	0.16	506	0.00
40	0.18	1.54	5.85	14.3	27.1	40.3	53.2	73.0	104	122	83.2	58.7	44.7	29.9	15.3	6.10	1.65	0.19	681	0.00
30	0.16	1.71	6.96	17.8	32.5	46.1	68.5	104	193	250	124	76.1	52.1	37.5	20.2	8.03	2.20	0.28	1041	0.00
20	0.19	2.00	8.11	20.9	36.0	55.6	98.7	217	707	1019	312	109	62.0	45.0	25.6	10.1	2.88	0.42	2732	0.00
10	0.22	2.20	8.87	23.0	40.3	72.9	164	465	5040	9339	960	149	74.7	51.8	29.2	11.2	3.16	0.46	16434	12905
0	0.24	2.31	9.14	23.7	43.6	87.1	222	758	13321	13124	1000	155	76.7	52.5	29.5	11.2	3.15	0.47	28919	26721
-10	0.24	2.26	8.80	22.2	38.7	60.6	106	313	825	977	333	115	66.4	48.5	26.8	10.6	3.06	0.46	2957	0.00
-20	0.25	2.13	7.98	19.5	34.2	50.2	84.8	167	460	379	158	99.5	63.4	44.4	23.2	9.43	2.84	0.45	1607	0.00
-30	0.32	2.06	6.81	16.0	30.0	46.7	70.9	109	126	108	109	83.0	62.3	40.1	20.3	8.54	2.78	0.51	842	0.00
-40	0.40	2.04	5.89	13.2	24.8	40.3	55.2	67.0	71.9	70.0	69.5	61.8	46.8	29.2	15.8	7.32	2.67	0.56	584	0.00
-50	0.38	1.70	4.51	9.42	16.5	25.8	35.9	44.4	49.7	50.7	46.7	38.0	27.0	17.1	9.95	4.90	1.91	0.45	385	0.00
-60	0.40	1.51	3.40	6.28	9.87	14.0	18.4	22.6	25.2	25.3	22.8	18.8	14.2	9.89	6.29	3.40	1.53	0.42	204	0.00
-70	0.39	1.35	2.60	4.13	5.86	7.77	9.75	11.4	12.2	12.1	11.2	9.60	7.67	5.82	4.10	2.57	1.36	0.41	110	0.00
-80	0.19	0.61	1.04	1.44	1.84	2.21	2.47	2.65	2.77	2.73	2.50	2.30	2.05	1.72	1.36	0.99	0.60	0.19	29.7	0.00
-90																				
F t	4.12	26.7	90.2	215	383	616	1083	2477	21089	25632	3359	1074	671	458	252	105	33.3	5.86	57575	---
F a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	243	17267	21493	622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	39625

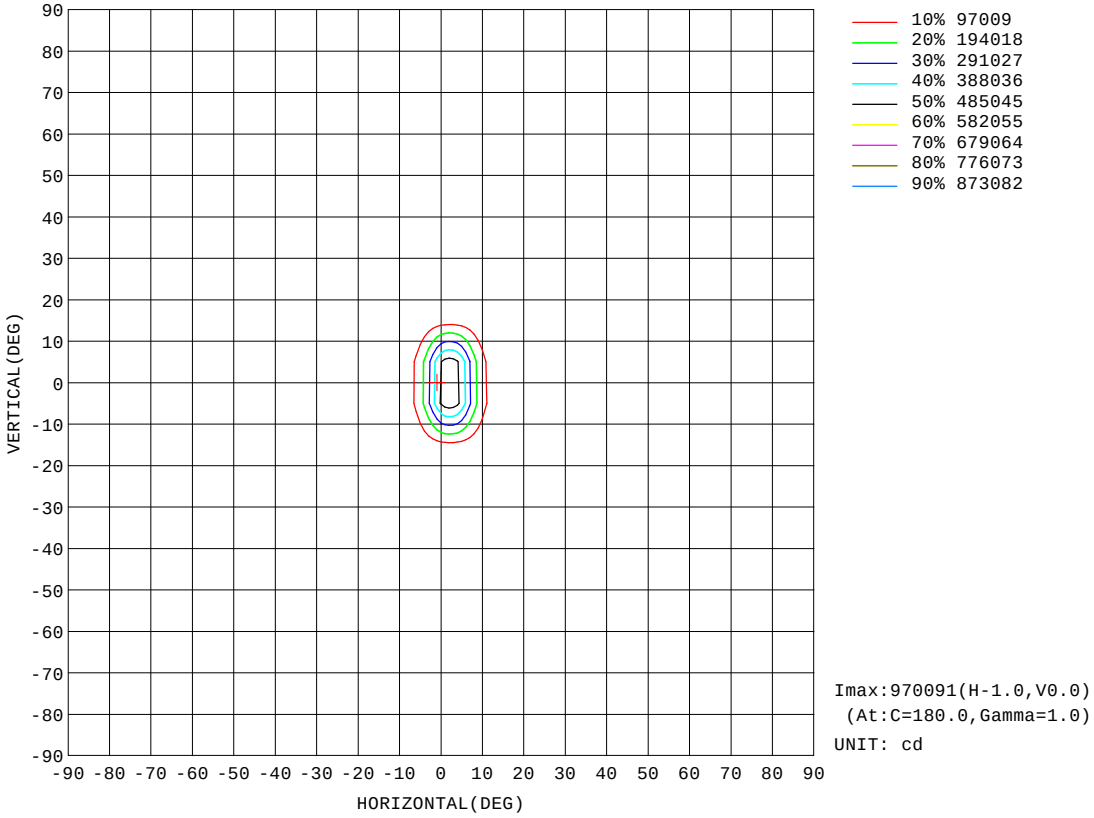
one-half-peak spread: U:5.2,D:5.1 , L:5.0,R:5.3 **NEMA Beam Type: Type 2**

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.7V I:2.302A P:499.8W PF:0.9793 Freq:49.79Hz Lamp Flux:57574.9x1 lm		
NAME: ITSP4500104000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

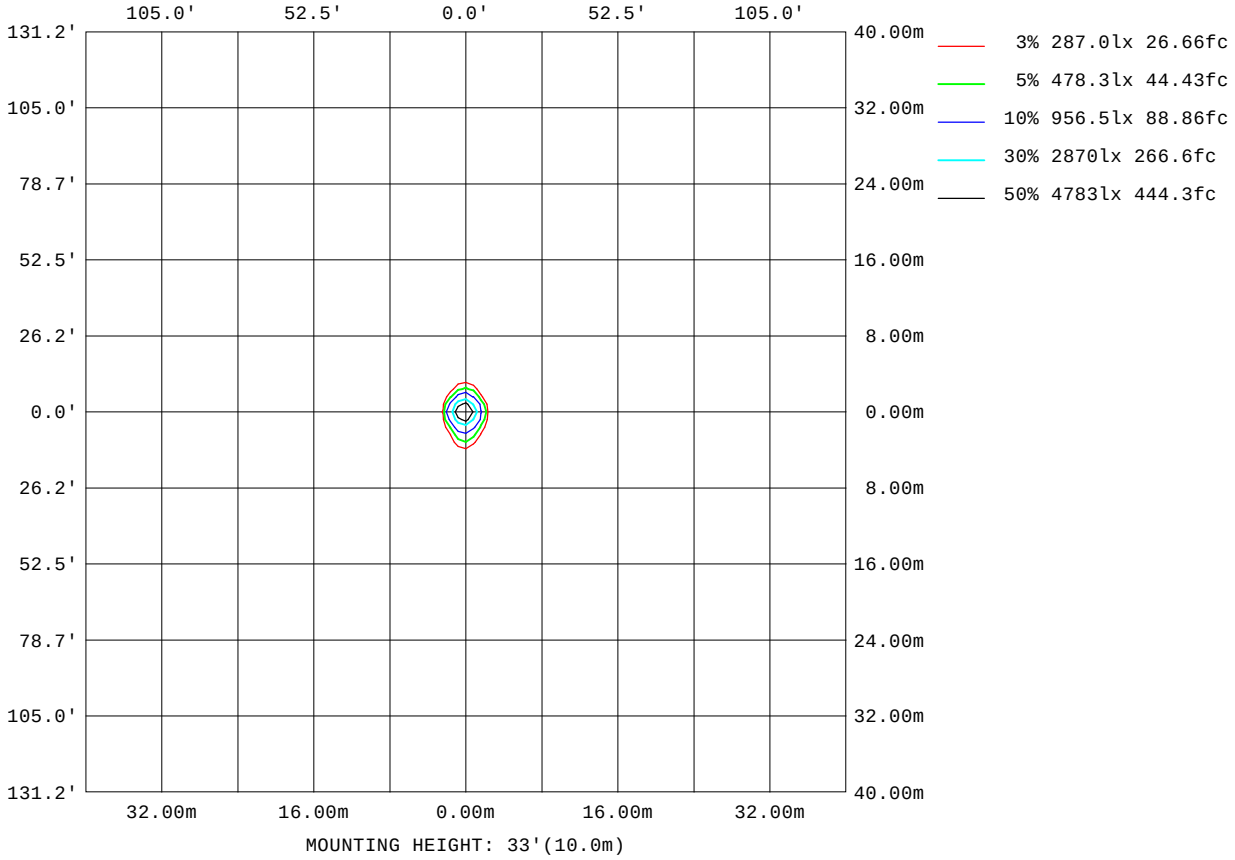


H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

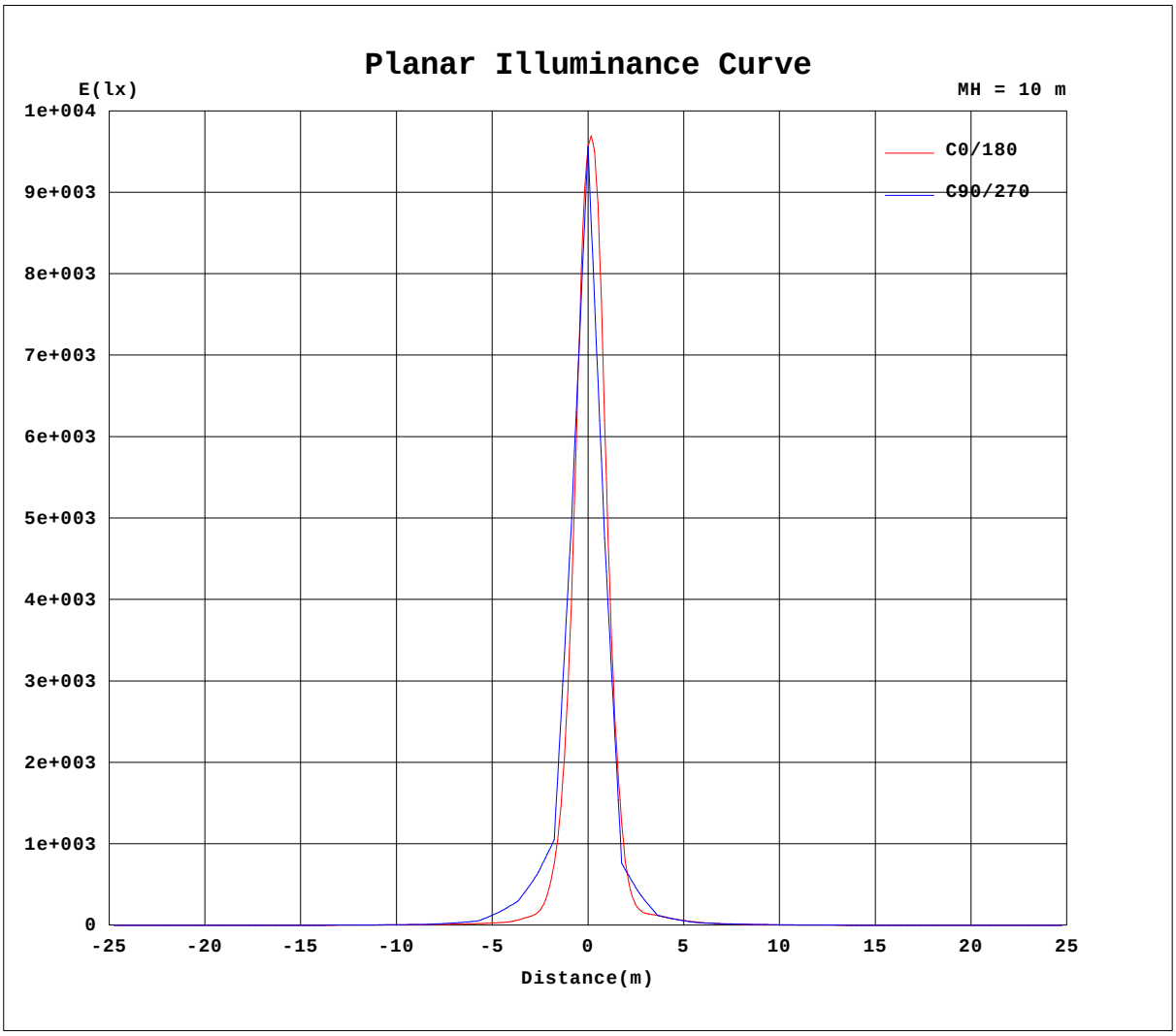
Test:U:221.7V I:2.302A P:499.8W PF:0.9793 Freq:49.79Hz Lamp Flux:57574.9x1 lm		
NAME: ITSP4500104000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



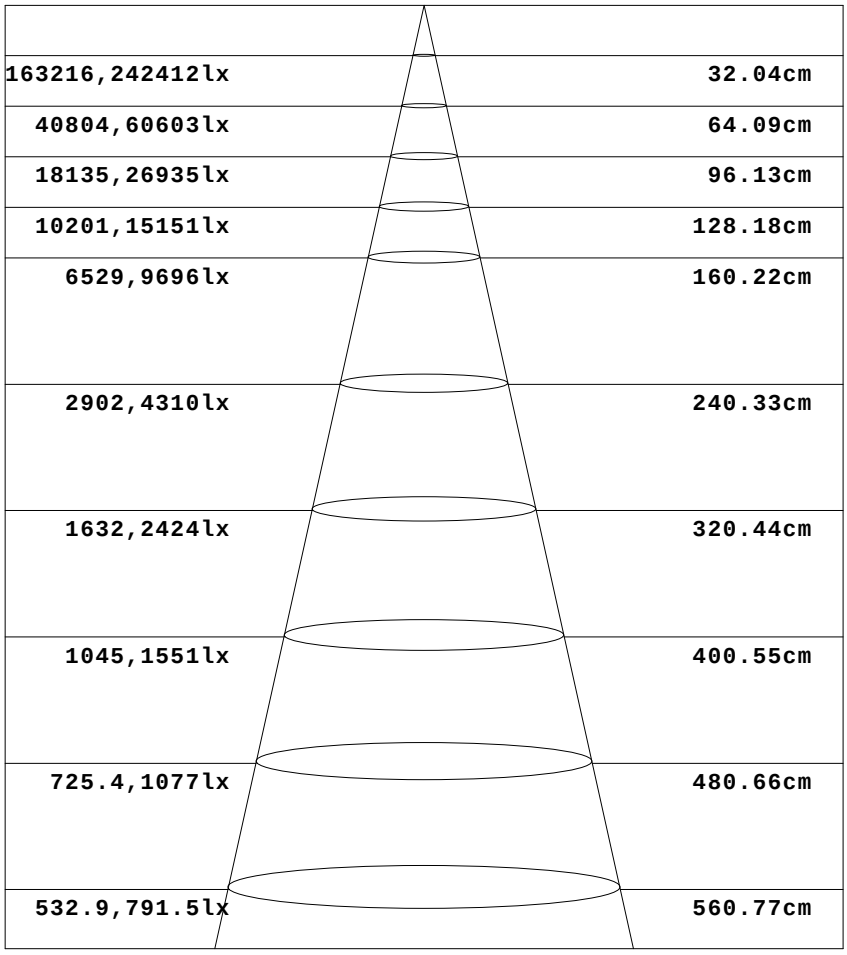
H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.7V I:2.302A P:499.8W PF:0.9793 Freq:49.79Hz Lamp Flux:57574.9x1 lm		
NAME: ITSP4500104000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:15699 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.7V I:2.302A P:499.8W PF:0.9793 Freq:49.79Hz Lamp Flux:57574.9x1 lm		
NAME: ITSP4500104000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1 UNIT: ×100cd

H(DEG) / V(DEG)	-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	1.25	1.40	1.50	1.58	1.65	1.72	1.79	1.87	1.95	2.04	2.14	2.23	2.32	2.39	2.47	2.54	2.60	2.65	2.67
-75	1.21	1.35	1.50	1.63	1.77	1.93	2.11	2.30	2.50	2.71	2.92	3.14	3.37	3.60	3.83	4.02	4.17	4.28	4.35
-70	1.33	1.49	1.65	1.84	2.07	2.35	2.66	2.97	3.29	3.62	3.96	4.32	4.71	5.08	5.43	5.69	5.89	6.00	6.03
-65	1.26	1.35	1.55	1.77	2.07	2.45	2.92	3.42	3.95	4.48	5.03	5.63	6.23	6.82	7.42	7.94	8.41	8.74	8.91
-60	1.27	1.45	1.70	2.05	2.51	3.10	3.78	4.50	5.24	5.99	6.81	7.65	8.47	9.28	10.1	10.8	11.4	11.7	11.9
-55	1.15	1.24	1.52	1.91	2.44	3.13	3.99	4.95	6.00	7.13	8.40	9.74	11.1	12.4	13.6	14.6	15.6	16.3	16.8
-50	1.10	1.35	1.77	2.37	3.15	4.15	5.34	6.67	8.09	9.76	11.6	13.5	15.3	17.0	18.5	19.7	20.8	21.6	22.0
-45	1.12	1.18	1.56	2.16	2.93	3.95	5.28	6.77	8.48	10.5	12.7	14.9	17.1	19.0	20.9	22.9	24.8	26.5	27.6
-40	1.16	1.43	2.02	2.83	3.87	5.27	7.01	8.91	11.2	13.8	16.5	18.9	21.2	23.4	25.8	28.4	30.8	32.9	33.7
-35	0.88	0.91	1.39	2.18	3.21	4.59	6.39	8.37	10.6	13.3	15.7	17.9	20.5	23.8	28.1	34.2	40.9	49.5	57.8
-30	0.58	0.91	1.65	2.71	4.13	5.97	8.20	10.5	13.2	15.7	17.6	19.8	23.6	29.1	37.5	47.9	60.8	77.2	84.3
-25	0.50	0.57	1.14	2.09	3.42	5.22	7.48	10.0	12.8	15.4	17.2	19.2	22.6	27.8	36.6	49.7	71.7	131	215
-20	0.45	0.83	1.68	2.97	4.76	7.06	9.85	12.7	15.8	17.3	19.1	22.1	27.4	35.7	50.9	72.9	142	292	367
-15	0.41	0.49	1.11	2.18	3.72	5.79	8.41	11.5	14.8	17.2	19.1	22.4	27.6	35.9	48.6	83.6	134	344	684
-10	0.42	0.81	1.72	3.11	5.03	7.54	10.6	14.1	17.1	19.1	22.8	28.3	37.0	49.1	81.2	146	316	824	1102
-5	0.39	0.46	1.10	2.21	3.83	6.00	8.75	12.1	15.9	18.3	21.8	28.1	38.4	59.0	85.1	136	281	1561	4954
0	0.41	0.79	1.71	3.13	5.11	7.61	10.8	14.6	17.8	21.0	27.9	38.6	61.8	97.4	148	217	1314	6269	9565
5	0.35	0.40	1.03	2.12	3.72	5.86	8.57	11.9	15.6	17.9	21.2	27.4	37.5	57.6	83.3	133	275	1501	4812
10	0.33	0.68	1.55	2.90	4.77	7.22	10.2	13.7	16.3	18.1	21.5	26.6	34.5	46.0	77.2	141	256	599	801
15	0.30	0.34	0.92	1.92	3.39	5.36	7.88	10.9	14.1	16.2	18.0	21.2	26.1	33.5	44.2	75.0	111	236	440
20	0.29	0.61	1.39	2.59	4.26	6.42	9.12	11.9	14.7	16.3	18.0	21.0	25.7	32.3	41.9	50.7	76.7	130	152
25	0.29	0.31	0.82	1.68	2.94	4.66	6.84	9.32	12.0	14.5	16.0	17.8	20.5	24.3	29.7	36.0	43.4	66.0	96.8
30	0.29	0.55	1.20	2.19	3.58	5.40	7.57	9.83	12.5	14.7	16.2	17.5	19.6	22.2	25.4	28.4	32.4	42.0	53.1
35	0.38	0.40	0.81	1.52	2.53	3.92	5.67	7.52	9.62	11.9	13.9	15.5	17.0	18.7	20.9	23.9	27.2	32.4	40.1
40	0.47	0.68	1.20	1.98	3.06	4.43	6.02	7.66	9.52	11.6	13.6	15.2	16.5	17.8	19.9	23.2	27.6	31.9	33.6
45	0.46	0.47	0.77	1.29	2.04	3.03	4.28	5.57	7.00	8.60	10.4	12.1	13.7	15.1	16.8	18.9	21.8	24.8	27.0
50	0.45	0.57	0.91	1.44	2.16	3.06	4.10	5.18	6.31	7.72	9.32	11.0	12.6	14.3	16.1	18.0	19.7	20.8	20.8
55	0.40	0.41	0.60	0.93	1.42	2.06	2.85	3.65	4.51	5.42	6.53	7.74	8.99	10.3	11.6	12.9	14.3	15.3	15.7
60	0.35	0.43	0.64	0.98	1.43	1.97	2.57	3.16	3.76	4.41	5.17	6.01	6.90	7.80	8.67	9.47	10.1	10.4	10.5
65	0.37	0.38	0.49	0.68	0.96	1.31	1.75	2.18	2.63	3.10	3.60	4.17	4.79	5.41	6.04	6.59	7.09	7.44	7.60
70	0.40	0.44	0.54	0.69	0.89	1.15	1.45	1.75	2.05	2.37	2.70	3.05	3.43	3.78	4.09	4.33	4.55	4.67	4.72
75	0.42	0.43	0.48	0.55	0.66	0.79	0.96	1.14	1.32	1.51	1.71	1.92	2.14	2.35	2.56	2.72	2.86	2.97	3.03
80	0.46	0.46	0.50	0.54	0.58	0.63	0.69	0.76	0.82	0.89	0.96	1.04	1.11	1.17	1.23	1.27	1.31	1.34	1.35
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(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.7V I:2.302A P:499.8W PF:0.9793 Freq:49.79Hz Lamp Flux:57574.9x1 lm		
NAME: ITSP4500104000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2 UNIT: ×100cd

H(DEG) / V(DEG)	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	2.65	2.60	2.52	2.45	2.39	2.32	2.22	2.13	2.04	1.96	1.88	1.80	1.73	1.66	1.60	1.54	1.46	1.28
-75	4.34	4.29	4.17	4.02	3.82	3.61	3.37	3.14	2.92	2.71	2.51	2.30	2.11	1.93	1.78	1.65	1.55	1.42
-70	5.98	5.85	5.65	5.36	5.00	4.63	4.24	3.88	3.55	3.22	2.90	2.57	2.26	2.01	1.80	1.64	1.49	1.36
-65	8.93	8.83	8.51	8.08	7.57	6.97	6.33	5.68	5.06	4.50	3.95	3.40	2.89	2.43	2.07	1.80	1.61	1.45
-60	11.8	11.5	10.9	10.2	9.42	8.56	7.64	6.72	5.89	5.11	4.34	3.62	2.94	2.40	1.99	1.71	1.52	1.41
-55	17.0	16.8	16.2	15.4	14.3	13.0	11.6	10.1	8.67	7.37	6.21	5.11	4.12	3.27	2.59	2.07	1.72	1.49
-50	22.0	21.5	20.5	19.3	17.6	15.8	13.7	11.7	9.85	8.21	6.72	5.40	4.24	3.28	2.53	1.98	1.61	1.42
-45	27.8	27.2	26.0	24.5	23.0	21.2	19.1	16.7	14.1	11.7	9.48	7.57	5.90	4.53	3.43	2.58	1.99	1.62
-40	33.1	31.5	29.7	28.0	26.2	24.1	21.6	18.6	15.4	12.4	9.85	7.69	5.84	4.40	3.25	2.42	1.85	1.59
-35	57.8	50.2	42.3	36.4	31.4	28.0	25.2	22.5	19.3	15.8	12.4	9.55	7.15	5.26	3.80	2.69	1.92	1.46
-30	74.1	58.8	47.5	38.3	32.3	28.4	25.6	22.7	19.0	15.0	11.3	8.45	6.07	4.28	2.93	1.95	1.32	1.13
-25	205	121	70.8	51.6	39.1	31.2	26.5	24.0	21.7	18.3	14.3	10.8	7.87	5.56	3.83	2.54	1.65	1.16
-20	232	112	67.5	49.3	35.2	27.8	24.1	22.7	20.6	16.8	12.8	9.50	6.74	4.65	3.09	1.97	1.26	1.05
-15	662	357	144	76.4	45.3	34.0	27.4	24.4	23.1	20.7	16.3	12.1	8.76	6.09	4.09	2.65	1.66	1.12
-10	725	303	125	57.9	40.2	31.3	26.4	24.5	23.3	19.5	14.6	10.5	7.40	4.99	3.25	2.05	1.28	1.00
-5	4528	1329	297	109	54.5	38.9	30.8	26.5	24.7	22.7	17.9	13.0	9.30	6.36	4.21	2.70	1.67	1.08
0	3972	794	164	82.6	46.4	35.7	29.3	25.9	24.2	20.5	15.1	10.9	7.50	4.99	3.24	2.02	1.22	0.99
5	4396	1257	279	105	53.2	38.3	30.4	26.2	24.3	22.4	17.6	12.9	9.19	6.27	4.16	2.65	1.61	1.03
10	536	225	116	53.7	38.8	30.3	25.8	23.9	22.7	19.0	14.2	10.2	7.22	4.86	3.16	1.94	1.16	0.93
15	436	242	109	65.6	39.9	31.0	25.4	22.7	21.6	19.6	15.5	11.5	8.25	5.69	3.79	2.40	1.43	0.91
20	109	64.0	47.7	38.8	29.5	24.2	21.1	20.2	18.8	15.4	11.8	8.70	6.06	4.10	2.65	1.60	0.93	0.76
25	96.9	65.8	44.1	36.1	28.9	24.0	21.0	19.6	18.2	15.7	12.3	9.27	6.65	4.55	2.99	1.82	1.02	0.60
30	49.5	37.0	29.6	24.7	21.8	19.9	18.9	17.5	15.1	11.8	8.96	6.65	4.56	3.01	1.83	0.99	0.47	0.38
35	43.5	36.9	29.0	24.5	21.4	19.6	18.1	16.7	14.6	11.9	9.24	6.97	5.03	3.44	2.21	1.29	0.66	0.35
40	31.2	26.5	22.7	20.2	18.7	17.4	15.7	13.5	11.1	8.67	6.62	4.95	3.47	2.32	1.41	0.75	0.35	0.30
45	26.8	24.4	21.4	19.0	17.2	15.7	14.1	12.3	10.3	8.32	6.58	5.05	3.72	2.60	1.69	1.00	0.54	0.32
50	19.9	18.6	17.0	15.5	13.8	12.2	10.4	8.71	7.14	5.81	4.63	3.55	2.56	1.75	1.11	0.64	0.36	0.32
55	15.4	14.7	13.7	12.5	11.4	10.1	8.81	7.51	6.29	5.22	4.29	3.41	2.60	1.87	1.27	0.80	0.50	0.36
60	10.1	9.61	8.91	8.18	7.35	6.50	5.63	4.82	4.12	3.50	2.89	2.31	1.73	1.24	0.84	0.56	0.40	0.38
65	7.50	7.24	6.85	6.38	5.84	5.24	4.62	4.01	3.47	2.99	2.53	2.08	1.64	1.23	0.90	0.65	0.48	0.41
70	4.62	4.45	4.23	3.96	3.60	3.24	2.86	2.53	2.23	1.92	1.63	1.33	1.05	0.82	0.64	0.52	0.44	0.43
75	3.02	2.94	2.82	2.68	2.51	2.29	2.07	1.86	1.66	1.47	1.29	1.11	0.93	0.77	0.65	0.55	0.48	0.45
80	1.33	1.30	1.26	1.21	1.15	1.08	1.01	0.94	0.87	0.80	0.74	0.67	0.62	0.57	0.53	0.50	0.48	0.47
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(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:16 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks: