

LED OUTLINE LIGHT



Light Output Ratio:	100.0%
Luminaire Power:	6 W
90% Beam Spread	1.0V x 2.4H
50% Beam Lumens	83.7 lumens per klm.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 23DEG
Operators:
Test Date: 2018-05-18

g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity: 56%
Test Distance: 10.580m [K=1.0000]
Remarks:

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

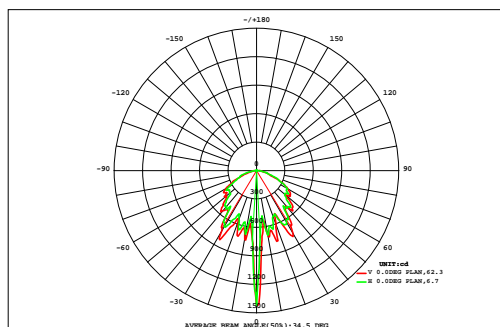
Maximum Intensity		726.9 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	147.6V x 143.7H
	At 50% of Imax	6.7V x 62.3H
	At 90% of Imax	1.0V x 2.4H
Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	936.8 lumens per klm.
	To 50% of Imax	83.7 lumens per klm.
	To 90% of Imax	0.9 lumens per klm.
	Upward LOR	1.3 %
	Downward LOR	98.7 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:23DEG
Operators:
Test Date:2018-05-18

g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.733V I:0.2528A P:6.0000W PF:1.0000 Freq:0Hz Lamp Flux:1953.28x1 lm		
NAME: TL-OU-3110 6W 10X60D	TYPE:	SERIAL No.:
	SUR.:	



DATA OF LAMP		Eff:325.55lm/W	
MODEL		Imax(cd)	1420
NOMINAL POWER(W)	6	AVAILABILITY(%)	93.3
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	1822
NOMINAL FLUX(lm)	1953.28	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1953
TEST VOLTAGE(V)	23.7097	q @50%(H,V)	62,7DEG

		AREA FLUX DIAGRAM														UNIT:lm			F t	F a	
		0.06	0.20	0.37	0.52	0.56	0.72	0.88	0.90	0.93	0.91	0.84	0.75	0.61	0.48	0.37	0.26	0.15	0.05	9.55	0.00
VERTICAL (DEG)	90	0.07	0.23	0.47	0.84	1.11	2.04	2.76	2.76	3.61	3.60	2.73	2.48	1.61	0.76	0.51	0.32	0.17	0.05	26.1	4.96
	80	0.08	0.22	0.72	1.92	2.88	4.42	6.04	6.90	7.28	7.02	6.31	5.67	4.18	2.37	1.24	0.42	0.17	0.06	57.9	49.2
	70	0.08	0.27	1.17	3.08	4.98	7.16	9.28	9.31	10.4	10.3	9.03	8.97	6.55	4.61	2.49	0.77	0.18	0.06	88.6	85.1
	60	0.09	0.39	1.70	4.29	7.08	8.70	10.9	13.3	13.7	13.2	12.1	10.5	8.12	6.35	3.61	1.25	0.26	0.07	116	113
	50	0.09	0.56	2.38	5.43	8.47	10.8	13.2	14.6	15.5	16.2	14.5	12.7	10.7	7.60	4.71	1.74	0.38	0.07	139	137
	40	0.10	0.72	2.93	6.03	9.17	12.5	15.5	17.7	16.8	15.7	17.4	13.5	11.6	7.87	5.01	2.35	0.53	0.07	155	154
	30	0.11	0.86	3.37	6.46	10.6	13.0	16.8	18.0	19.7	20.1	16.3	15.9	12.7	9.00	5.71	2.92	0.67	0.08	172	171
		0.12	0.94	3.65	7.13	10.9	13.8	16.6	19.8	19.2	18.1	19.5	15.0	13.9	10.1	6.68	3.33	0.77	0.08	180	178
		0.12	0.94	3.59	7.03	10.3	13.9	15.0	19.6	18.3	18.9	19.8	17.1	13.5	10.9	6.88	3.43	0.78	0.08	180	179
		0.11	0.86	3.21	6.24	9.06	13.0	15.7	16.3	20.0	19.8	17.5	17.4	12.7	11.2	6.31	3.21	0.71	0.08	173	172
		0.10	0.74	2.70	5.63	8.25	12.0	13.9	17.4	16.2	17.0	18.3	15.6	12.8	9.41	5.86	2.84	0.58	0.08	160	158
	-30	0.09	0.56	2.18	5.22	8.08	10.9	13.0	14.8	16.5	15.9	15.0	13.7	11.2	8.79	5.56	2.27	0.43	0.07	144	142
	-40	0.08	0.39	1.61	4.10	7.14	9.13	11.5	12.8	13.7	14.2	13.5	11.6	9.12	7.46	4.40	1.56	0.30	0.07	123	120
	-50	0.08	0.27	1.04	2.81	5.12	7.52	9.66	10.4	11.4	11.4	10.5	10.00	7.74	5.30	2.90	0.95	0.22	0.07	97.4	93.7
	-60	0.07	0.19	0.66	1.64	2.99	4.77	6.46	7.11	8.22	8.47	7.69	6.74	4.86	3.04	1.60	0.58	0.22	0.06	65.4	57.3
	-70	0.06	0.17	0.37	0.74	1.15	2.18	3.08	3.56	3.88	3.86	3.45	2.97	1.99	0.96	0.69	0.43	0.22	0.06	29.8	8.65
-80	0.06	0.16	0.30	0.43	0.48	0.78	1.00	1.01	1.20	1.11	0.77	0.77	0.64	0.47	0.44	0.32	0.19	0.05	10.2	0.00	
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90	
F t	1.57	8.67	32.4	69.5	108	147	181	206	216	216	205	181	145	107	65.0	29.0	6.94	1.21	1928	---	
F a	0.00	0.89	24.7	63.1	102	141	175	200	210	209	199	176	139	101	58.7	21.3	0.55	0.00	---	1822	

one-half-peak spread: U:3.2,D:3.6 , L:2.5,R:4.1

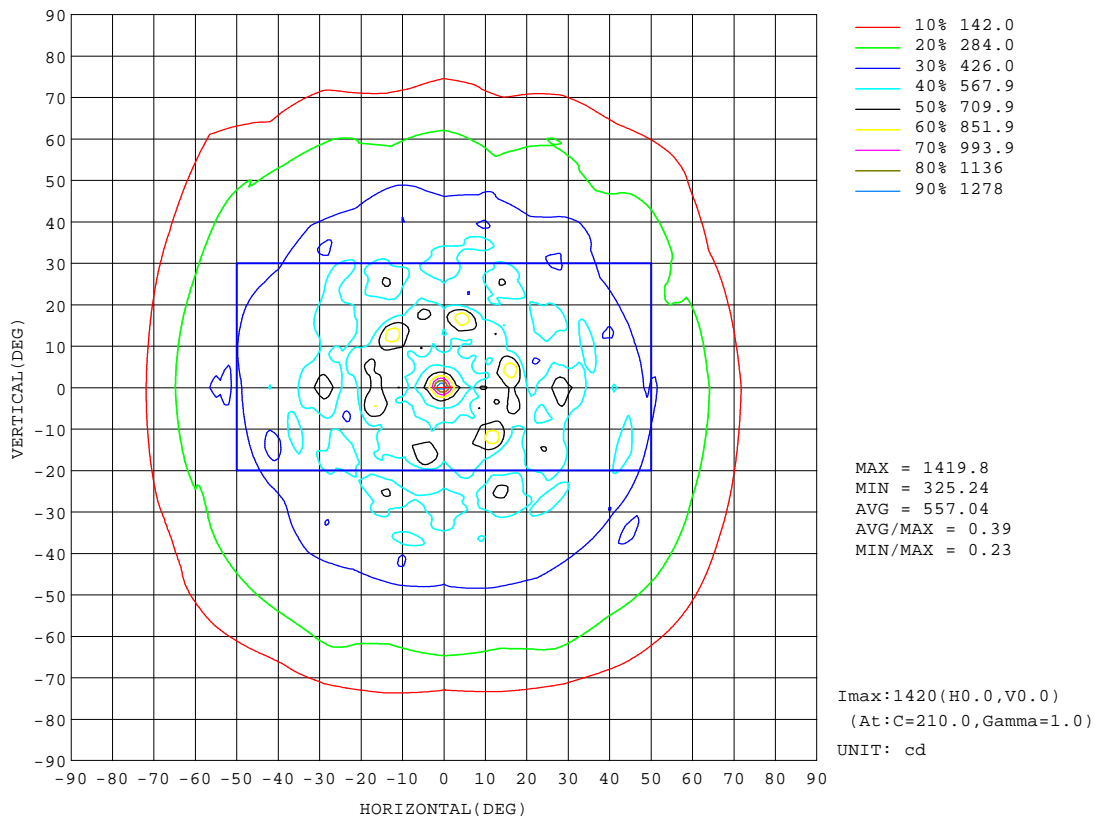
NEMA Beam Type: Type 7

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:23DEG
Operators:
Test Date:2018-05-18

g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.733V I:0.2528A P:6.0000W PF:1.0000 Freq:0Hz Lamp Flux:1953.28x1 lm		
NAME: TL-OU-3110 6W 10X60D	TYPE:	SERIAL No.:
	SUR.:	

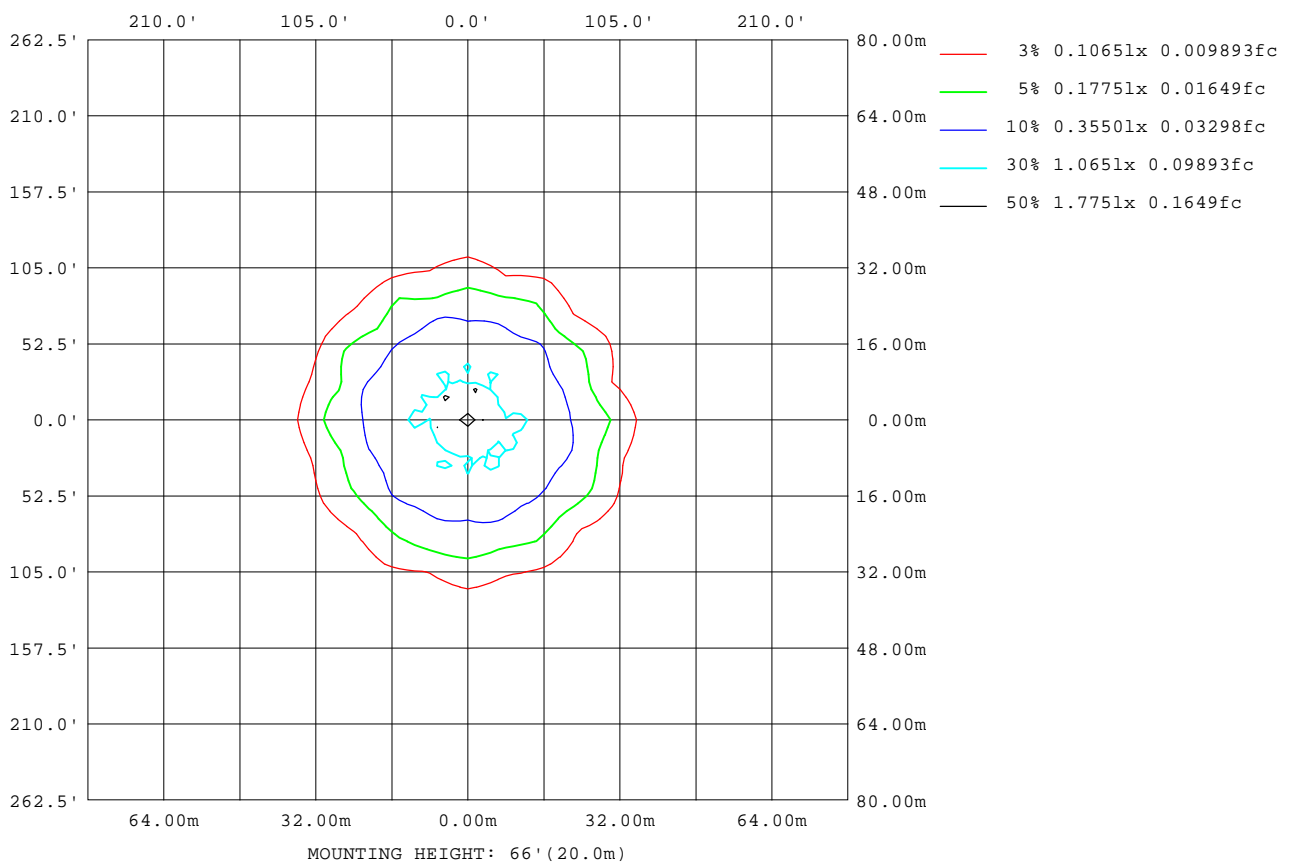


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:23DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

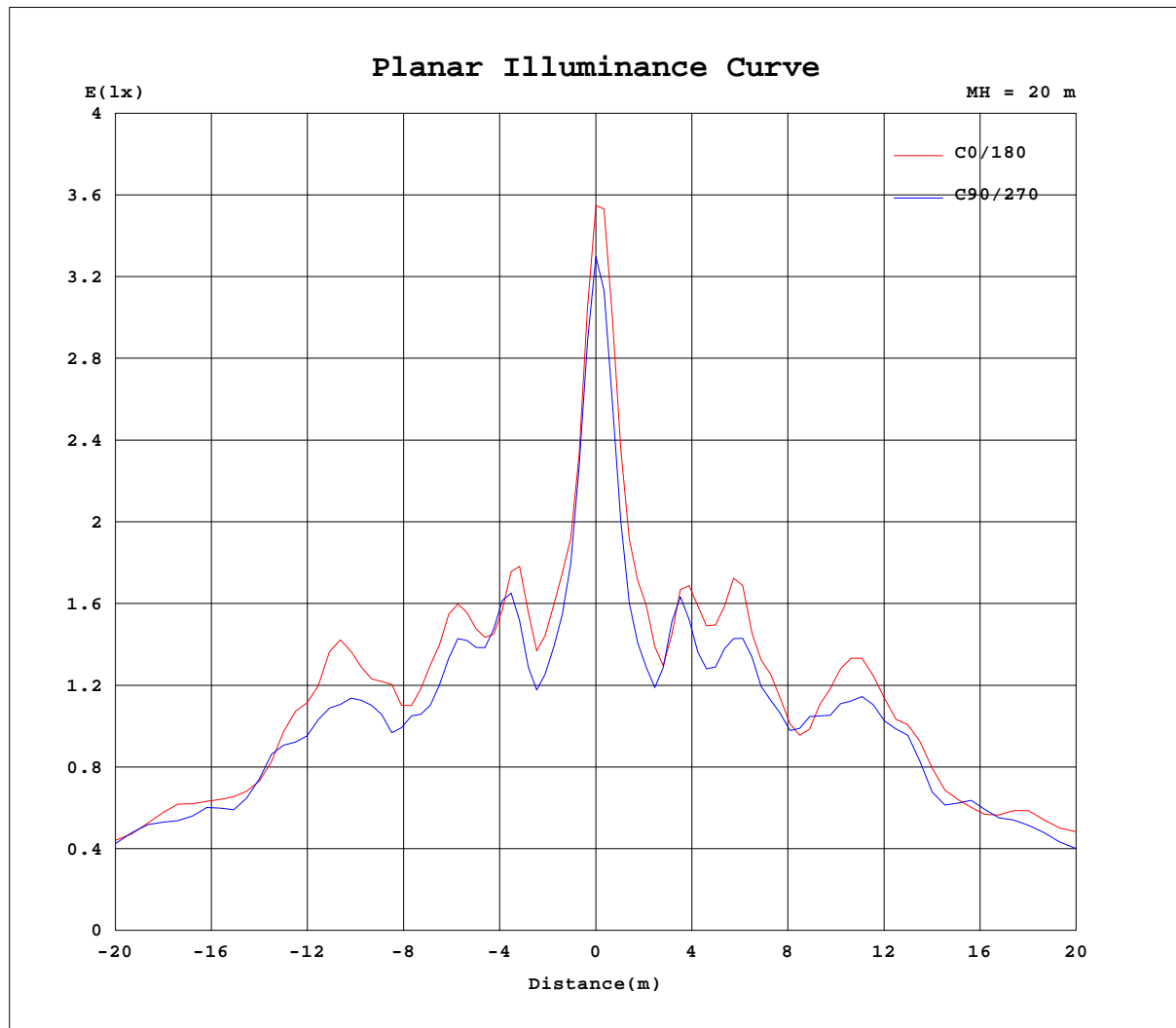
Test:U:23.733V I:0.2528A P:6.0000W PF:1.0000 Freq:0Hz Lamp Flux:1953.28x1 lm		
NAME: TL-OU-3110 6W 10X60D	TYPE:	SERIAL No.:
	SUR.:	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
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Remarks:

Planar Illuminance Curve



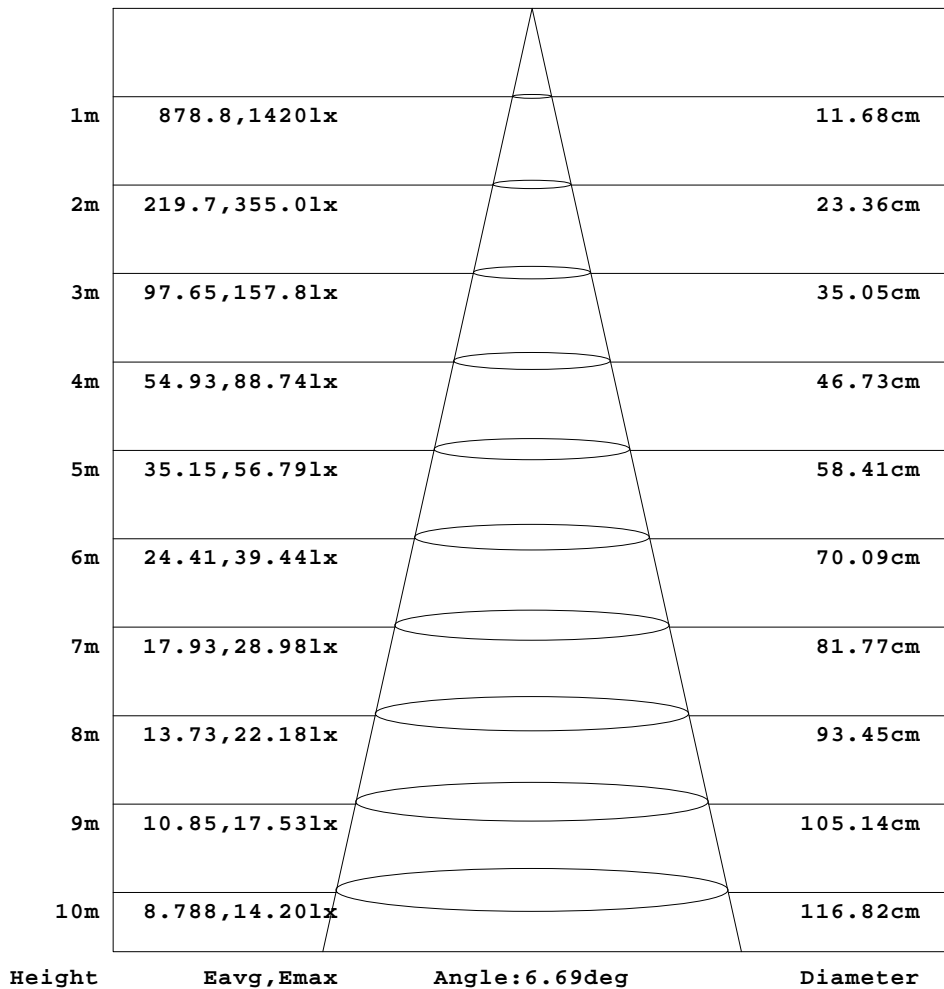
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 Test Speed: HIGH
 Temperature: 23DEG
 Operators:
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 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 56%
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 Remarks:

AAI Figure

Test:U:23.733V I:0.2528A P:6.0000W PF:1.0000 Freq:0Hz Lamp Flux:1953.28x1 lm		
NAME: TL-OU-3110 6W 10X60D	TYPE:	SERIAL No.:
	SUR.:	

Flux out:13.50 lm



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

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:23DEG
Operators:
Test Date:2018-05-18

g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.733V I:0.2528A P:6.0000W PF:1.0000 Freq:0Hz Lamp Flux:1953.28x1 lm																	
NAME: TL-OU-3110 6W 10X60D									TYPE:						SERIAL No.:		
									SUR.:								

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
-180	21.7	9.23	5.12	4.89	5.52	5.62	6.06	6.71	7.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	21.7	9.41	5.39	4.57	5.16	5.13	5.42	5.89	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	21.7	9.84	6.01	4.02	4.83	4.63	4.70	4.99	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	21.7	10.5	6.95	3.76	4.52	4.16	4.13	4.49	4.92	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	21.7	11.3	7.89	4.45	3.95	3.97	3.94	4.10	4.42	4.77	5.14	5.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-130	21.7	12.7	9.00	6.96	3.31	3.90	3.86	3.79	3.92	4.19	4.48	4.72	5.01	5.33	5.51	5.79	5.94	6.02	6.11
-120	21.7	14.3	9.47	9.76	6.48	3.30	3.77	3.80	3.58	3.57	3.70	3.88	4.04	4.18	4.32	4.46	4.55	4.60	4.62
-110	21.7	16.0	11.6	9.73	9.70	8.03	5.08	3.14	3.25	3.20	3.04	3.14	3.27	4.07	5.13	6.25	7.79	9.22	10.6
-100	21.7	17.9	16.5	14.0	10.8	9.45	8.26	5.49	3.95	2.58	2.87	2.86	3.04	2.88	2.75	2.60	4.19	5.90	7.61
-90	21.7	20.9	20.0	19.1	19.0	18.8	18.6	18.4	18.2	18.0	19.1	20.1	21.1	20.4	19.8	19.1	20.5	21.9	23.3
-80	21.7	23.1	21.7	19.5	22.7	26.2	29.8	27.3	24.6	22.5	35.4	50.9	64.0	63.8	62.8	61.2	64.8	68.1	71.1
-70	21.7	24.7	25.2	20.5	22.9	34.1	50.5	67.5	74.7	88.0	114	134	150	163	173	183	193	203	211
-60	21.7	26.9	28.0	23.7	40.0	63.2	88.6	125	152	193	219	257	291	301	309	306	315	344	375
-50	21.7	29.7	29.6	41.2	51.5	97.1	145	202	245	285	312	342	364	384	407	399	389	389	389
-40	21.7	32.9	34.9	55.2	89.9	140	208	264	343	373	373	387	466	482	486	466	432	482	499
-30	21.7	35.2	44.7	73.4	129	188	254	324	350	395	361	479	449	518	480	592	536	553	636
-20	21.7	37.0	53.0	97.3	146	229	293	335	354	408	448	502	516	561	546	491	470	531	511
-10	21.7	38.7	58.9	117	160	259	349	385	388	483	458	589	490	553	480	568	647	633	692
0	21.7	40.2	62.8	128	168	278	381	438	403	548	504	580	769	595	604	706	699	694	1420
10	21.7	39.2	58.2	117	166	268	356	398	422	550	481	526	563	572	561	735	723	684	684
20	21.7	38.0	51.9	100	149	252	327	367	359	502	502	503	575	593	517	522	517	618	543
30	21.7	36.6	44.0	74.1	117	212	266	331	389	400	395	499	453	574	545	605	518	572	681
40	21.7	34.6	36.0	55.5	86.5	153	227	286	335	391	372	379	428	476	484	478	425	463	492
50	21.7	31.7	32.5	37.3	52.4	104	165	203	247	282	301	327	362	384	361	362	387	387	371
60	21.7	28.9	32.8	26.5	37.3	64.8	114	154	163	174	199	237	268	286	281	269	278	303	326
70	21.7	26.7	30.1	28.1	28.9	39.4	60.2	73.0	76.4	86.7	107	132	158	161	159	166	177	182	183
80	21.7	25.2	26.0	26.5	30.0	33.8	38.4	34.6	29.6	24.2	31.5	42.4	55.5	52.4	46.3	39.7	45.9	52.4	58.3
90	21.7	23.1	24.4	25.7	24.2	22.7	21.3	21.5	21.8	22.1	21.0	19.8	18.7	19.5	20.3	21.1	19.8	18.6	17.3
100	21.7	19.8	20.4	19.7	14.8	12.1	10.2	7.19	5.24	3.57	3.51	3.56	3.61	3.61	3.65	3.64	4.73	5.88	7.01
110	21.7	17.9	14.6	11.7	11.1	10.0	6.89	4.37	4.43	4.46	4.19	4.28	4.43	4.89	5.55	6.32	7.89	9.35	10.7
120	21.7	16.0	10.7	10.8	8.02	4.45	5.31	5.24	4.88	4.82	4.91	5.12	5.30	5.46	5.57	5.66	5.73	5.78	5.81
130	21.7	14.0	9.74	8.11	4.43	5.25	5.22	5.16	5.25	5.49	5.79	6.04	6.34	6.64	6.80	7.00	7.07	7.13	7.19
140	21.7	12.1	8.37	5.20	5.02	5.31	5.27	5.44	5.83	6.24	6.59	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	21.7	11.0	7.41	4.34	5.42	5.32	5.47	5.87	6.38	6.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	21.7	10.1	6.35	4.45	5.46	5.42	5.71	6.25	6.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	21.7	9.53	5.57	4.78	5.48	5.54	5.93	6.54	7.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	21.7	9.23	5.12	4.89	5.52	5.62	6.06	6.71	7.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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Operators:
Test Date:2018-05-18

g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.733V I:0.2528A P:6.0000W PF:1.0000 Freq:0Hz Lamp Flux:1953.28x1 lm		
NAME: TL-OU-3110 6W 10X60D	TYPE:	SERIAL No.:
	SUR.:	

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	
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.49	5.89	5.31	4.78	4.85	5.16	4.73	6.70	17.4	
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.34	5.78	5.21	4.72	4.80	5.07	4.91	7.06	17.4	
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.03	5.54	4.97	4.64	4.80	4.95	5.16	7.69	17.4	
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.91	5.51	5.11	4.65	4.61	4.78	5.34	5.67	8.54	17.4	
-140	0.00	0.00	0.00	0.00	0.00	0.00	5.91	5.58	5.23	4.90	4.56	4.40	4.57	4.71	5.90	6.41	9.63	17.4	
-130	6.09	6.08	5.97	5.77	5.62	5.32	5.08	4.86	4.56	4.29	4.10	4.30	4.55	4.99	6.20	7.38	11.2	17.4	
-120	4.64	4.64	4.59	4.49	4.37	4.27	4.15	4.02	3.88	3.89	4.19	4.43	4.70	6.46	8.04	8.69	13.6	17.4	
-110	9.29	7.94	6.46	5.39	4.37	3.54	3.41	3.31	3.47	3.71	4.20	6.61	7.96	8.82	9.87	11.8	16.2	17.4	
-100	5.95	4.29	2.74	2.91	3.02	3.25	3.30	3.30	2.83	4.59	6.64	9.82	10.5	12.3	17.2	18.9	17.9	17.4	
-90	21.0	18.8	16.5	16.4	16.2	16.1	17.3	18.5	19.7	19.7	19.7	19.7	21.3	23.0	24.6	22.2	19.8	17.4	
-80	61.8	52.3	43.4	49.4	52.4	50.3	35.5	26.1	20.1	25.6	31.1	35.5	31.8	27.8	25.1	22.3	19.8	17.4	
-70	212	209	198	180	173	156	137	102	73.4	70.7	62.0	45.1	33.3	29.5	28.0	25.6	20.4	17.4	
-60	348	324	318	321	324	305	267	208	196	163	121	85.8	56.5	27.1	26.6	28.7	21.5	17.4	
-50	394	394	394	397	396	369	318	327	312	262	205	152	87.7	45.6	27.4	29.2	23.4	17.4	
-40	482	459	509	488	464	445	391	407	385	356	281	215	145	69.2	38.7	29.3	26.7	17.4	
-30	567	553	634	555	559	484	496	427	401	377	332	274	196	110	56.4	31.1	28.2	17.4	
-20	614	513	524	554	596	523	508	548	492	377	328	312	237	144	72.6	35.5	29.0	17.4	
-10	655	783	659	578	613	506	543	492	580	422	385	346	269	159	82.3	40.8	29.6	17.4	
0	645	736	691	571	662	739	533	553	501	433	408	373	276	162	88.8	44.5	29.9	17.4	
10	588	639	575	483	551	468	662	452	455	393	360	327	250	148	80.0	40.5	29.3	17.4	
20	541	509	537	551	572	480	479	458	393	331	284	280	203	129	68.3	34.7	28.4	17.4	
30	524	509	568	472	428	447	461	362	352	325	283	226	145	98.2	52.3	29.5	27.3	17.4	
40	452	422	451	434	450	447	379	342	348	309	241	170	115	56.3	35.1	26.8	25.5	17.4	
50	372	362	351	359	371	342	277	262	257	214	174	130	68.1	37.2	25.2	25.6	22.2	17.4	
60	291	258	249	262	285	261	225	202	172	138	103	70.6	42.1	23.1	21.3	25.6	20.3	17.4	
70	172	158	143	149	156	141	108	79.6	54.7	52.4	39.9	31.8	24.0	22.1	22.9	22.4	19.2	17.4	
80	51.8	45.1	39.4	41.5	41.0	38.5	31.0	26.5	24.5	26.0	26.7	25.4	23.3	21.8	20.8	19.7	18.4	17.4	
90	18.0	18.7	19.4	18.6	17.8	17.0	15.7	14.5	13.2	14.8	16.3	17.9	18.4	18.9	19.4	18.7	18.1	17.4	
100	5.80	4.58	3.43	3.49	3.53	3.60	3.68	3.64	3.38	4.72	6.51	8.85	8.87	9.91	12.9	15.1	15.9	17.4	
110	9.42	8.05	6.57	5.69	4.90	4.35	4.19	4.07	4.26	4.35	4.65	6.61	7.45	7.89	7.80	10.0	14.4	17.4	
120	5.76	5.68	5.57	5.43	5.28	5.12	4.94	4.75	4.58	4.58	4.89	4.94	5.24	6.61	7.47	7.37	12.3	17.4	
130	7.08	6.98	6.86	6.62	6.45	6.11	5.78	5.51	5.21	4.91	4.70	4.86	4.98	5.19	6.31	6.87	10.4	17.4	
140	0.00	0.00	0.00	0.00	0.00	0.00	6.56	6.24	5.87	5.48	5.08	4.87	4.98	5.01	6.34	6.15	9.16	17.4	
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.42	5.97	5.50	5.03	4.93	5.03	5.34	5.62	8.20	17.4	
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	5.79	5.22	4.88	4.98	5.01	5.19	7.44	17.4	
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45	5.90	5.32	4.83	4.90	5.13	4.94	6.93	17.4	
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.49	5.89	5.31	4.78	4.85	5.16	4.73	6.70	17.4	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:23DEG
Operators:
Test Date:2018-05-18

g Range: 0 - 130DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks: