

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	563.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	133.6V x 146.4H
	At 50% of Imax	54.0V x 129.6H
	At 90% of Imax	21.5V x 118.6H

Beam Flux	Total	997.5 lumens per klm.
	To 10% of Imax	918.4 lumens per klm.
	To 50% of Imax	723.3 lumens per klm.
	To 90% of Imax	269.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

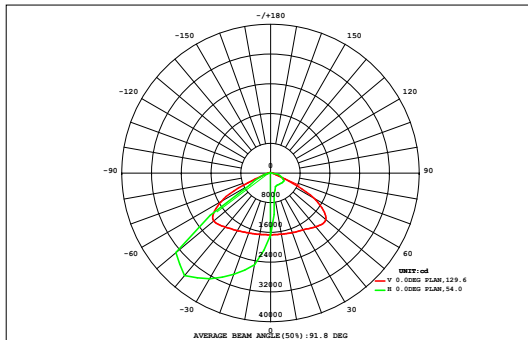
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:218.7V I:1.904A P:404.0W PF:0.9728 Lamp Flux:66069.8x1 lm		
NAME: FL-400H-60130	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:163.55lm/W	
MODEL	FL-400H-60130	Imax(cd)	37224
NOMINAL POWER(W)	400	AVAILABILITY(%)	92.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	60879
NOMINAL FLUX(lm)	66069.8	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	66070
TEST VOLTAGE(V)	220	θ @50%(H,V)	130,54DEG

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	0.61	3.86	8.71	14.6	21.7	31.7	48.8	70.4	84.3	85.2	73.0	51.8	33.1	21.9	14.7	8.53	3.73	0.65	577	0.00
70	0.77	5.22	12.6	21.7	33.1	46.8	67.8	92.2	109	110	94.6	70.3	48.2	33.3	21.7	12.1	5.03	0.79	785	101
60	1.00	6.90	17.7	31.2	46.1	62.5	85.1	110	127	127	111	85.2	62.4	45.3	30.3	16.8	6.60	1.00	974	384
50	1.19	8.30	23.4	44.0	57.1	72.5	91.5	109	119	119	109	90.9	71.9	55.1	40.7	22.2	7.96	1.20	1044	341
40	1.37	9.39	31.3	63.3	68.6	78.9	94.9	108	114	114	107	94.9	78.8	65.8	57.4	30.6	9.00	1.37	1128	289
30	1.49	10.0	44.6	93.9	91.1	89.0	99.9	110	115	115	111	101	89.6	87.5	90.3	45.7	9.99	1.53	1306	845
20	1.61	10.9	65.3	151	156	136	130	134	138	138	135	130	132	152	151	68.7	11.2	1.66	1840	1793
10	1.67	12.0	92.5	246	308	302	295	299	304	303	298	292	295	303	249	98.7	12.5	1.79	3712	3672
0	1.66	13.6	122	370	512	565	601	628	642	640	624	593	554	503	372	128	13.7	1.85	6885	6846
-10	1.49	14.1	139	475	654	719	764	808	834	833	804	758	709	648	482	147	14.2	1.78	8805	8767
-20	1.34	13.5	134	524	745	823	873	912	936	937	914	872	822	747	540	136	13.4	1.56	9947	9906
-30	1.21	11.4	95.8	488	779	897	965	1015	1044	1047	1022	972	904	793	518	98.3	11.9	1.38	10664	10617
-40	1.13	9.65	55.9	346	685	858	967	1036	1070	1074	1045	980	875	709	367	47.9	9.84	1.24	10137	10085
-50	1.05	7.71	27.9	145	391	550	654	697	698	697	697	659	562	405	147	24.9	7.79	1.17	6373	6300
-60	0.99	5.98	18.2	35.8	82.9	130	140	116	86.2	84.7	116	143	137	86.8	31.6	17.1	5.90	1.08	1239	934
-70	0.91	4.33	11.3	18.0	24.4	43.0	46.4	48.3	51.1	52.1	49.5	46.8	43.4	25.7	17.6	11.5	4.45	1.03	500	0.00
-80	0.45	1.69	3.76	5.96	7.42	11.6	15.9	15.9	13.9	14.5	17.7	16.8	10.8	6.17	5.78	3.29	1.58	0.48	154	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	19.9	149	904	3073	4662	5415	5940	6307	6485	6492	6326	5956	5429	4687	3135	917	149	21.6	66070	---
Φ a	0.00	4.08	678	2866	4353	4986	5385	5827	6224	6214	5867	5424	5021	4397	2930	701	2.83	0.00	---	60879

one-half-peak spread: U:15.6,D:38.6 , L:16.9,R:16.8

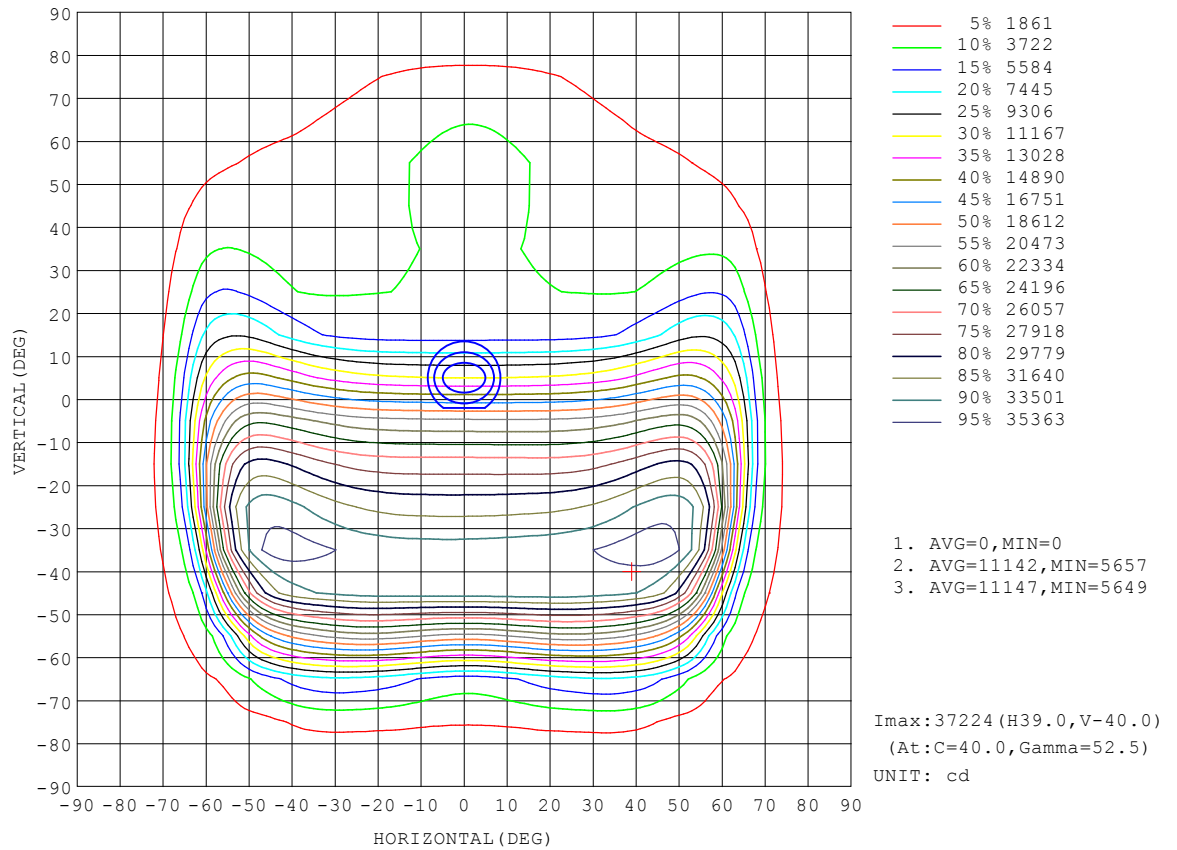
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.7V I:1.904A P:404.0W PF:0.9728 Lamp Flux:66069.8x1 lm		
NAME: FL-400H-60130	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

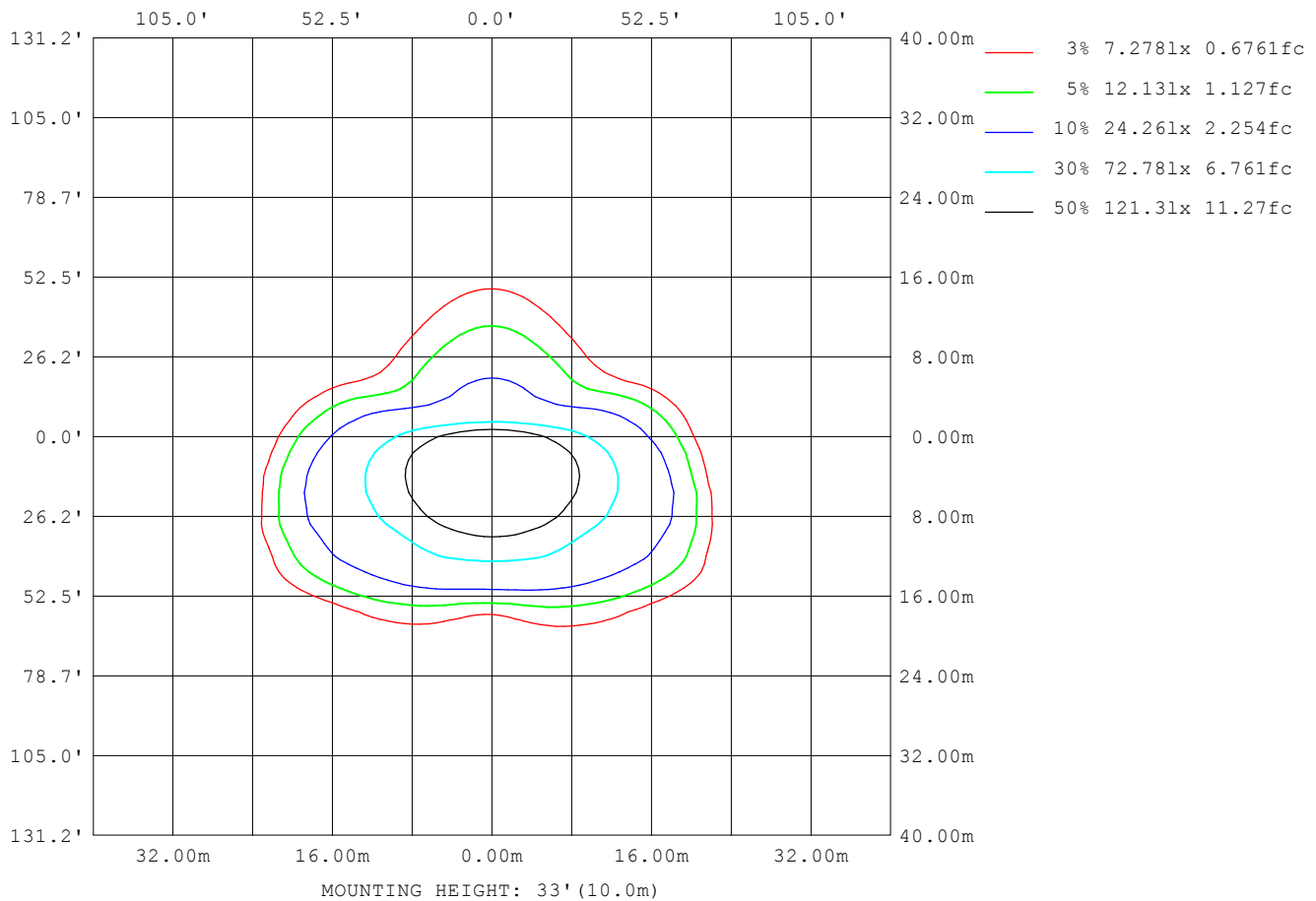


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

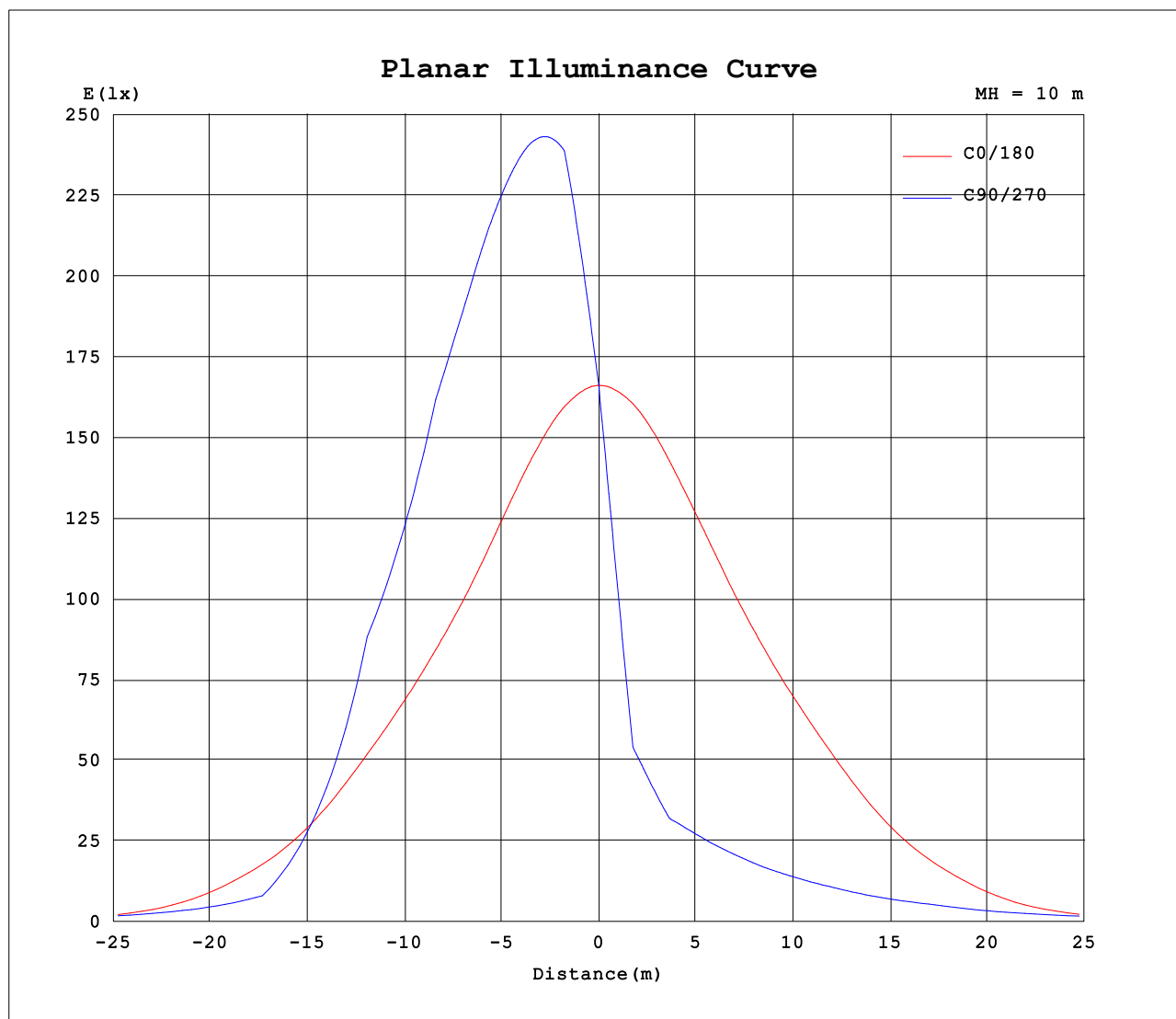
Test:U:218.7V I:1.904A P:404.0W PF:0.9728 Lamp Flux:66069.8x1 lm		
NAME: FL-400H-60130	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

Planar Illuminance Curve

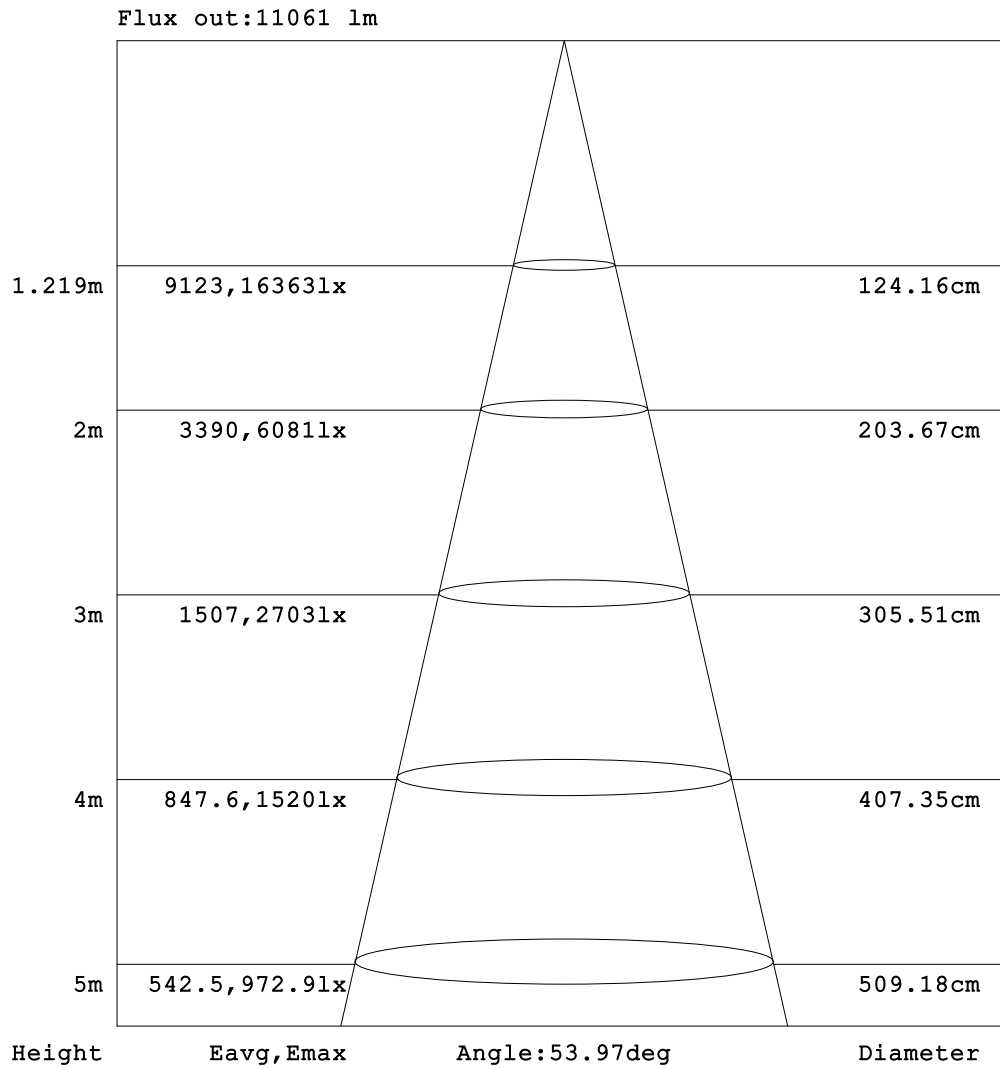


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.7V I:1.904A P:404.0W PF:0.9728 Lamp Flux:66069.8x1 lm		
NAME: FL-400H-60130	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding 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:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.7V I:1.904A P:404.0W PF:0.9728 Lamp Flux:66069.8x1 lm		
NAME: FL-400H-60130	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

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	28.5	32.0	36.5	44.1	54.9	66.9	76.6	83.3	89.3	94.6	114	142	153	158	159	148	133	129	127
-75	27.4	29.9	37.0	48.7	64.7	83.6	101	115	125	148	199	234	245	241	234	227	213	204	200
-70	27.3	32.9	45.4	65.0	89.6	115	136	155	169	242	319	339	335	319	304	295	284	275	274
-65	25.9	29.5	42.8	64.6	94.9	133	166	219	358	499	611	678	706	697	664	613	546	488	461
-60	24.7	34.8	55.5	86.8	128	178	229	377	667	853	970	1049	1077	1052	989	877	756	670	649
-55	23.5	28.9	48.2	80.7	130	189	302	662	1244	1674	1894	2018	2101	2147	2150	2113	2056	2007	1986
-50	21.8	35.6	63.7	109	174	254	582	1395	2231	2703	2931	3062	3171	3256	3291	3303	3312	3319	3324
-45	20.9	28.3	54.0	98.6	165	275	701	1677	2571	3062	3267	3343	3391	3428	3447	3449	3454	3456	3460
-40	19.6	37.9	75.0	141	217	488	1516	2769	3396	3633	3679	3666	3644	3621	3606	3599	3597	3595	3601
-35	18.4	28.0	60.6	119	196	421	1322	2623	3350	3602	3633	3588	3538	3492	3464	3445	3440	3436	3438
-30	17.5	39.6	85.5	158	282	845	2233	3230	3579	3632	3556	3469	3393	3337	3303	3286	3280	3275	3279
-25	16.0	28.3	69.4	136	237	619	1801	2914	3383	3470	3404	3308	3224	3163	3124	3100	3092	3086	3087
-20	15.9	44.0	98.1	171	378	1183	2397	3116	3313	3276	3176	3074	3001	2952	2921	2905	2899	2896	2896
-15	14.0	30.0	79.0	143	262	739	1839	2661	3011	3037	2957	2864	2788	2738	2712	2700	2698	2698	2698
-10	14.5	51.2	105	169	389	1128	2040	2607	2782	2742	2666	2586	2529	2498	2492	2492	2497	2501	2500
-5	12.6	35.4	84.5	138	254	708	1537	2091	2363	2379	2312	2237	2179	2135	2110	2097	2089	2084	2082
0	14.0	59.7	105	156	355	957	1537	1875	2001	1967	1901	1837	1789	1747	1717	1695	1676	1664	1662
5	11.2	39.2	83.9	128	222	578	1143	1439	1561	1520	1420	1318	1243	1189	1154	1136	1124	1116	1114
10	14.0	56.5	98.5	141	277	679	1030	1146	1120	996	856	732	649	599	574	566	565	565	567
15	9.92	37.9	80.0	121	183	418	779	906	895	791	674	584	528	496	480	475	475	475	476
20	13.9	54.3	94.1	134	222	471	673	687	602	487	414	384	377	377	380	383	385	386	387
25	9.60	35.3	74.9	115	161	297	515	571	526	442	381	358	357	362	368	374	378	381	382
30	12.7	49.1	86.5	126	178	308	435	435	384	339	322	328	340	352	362	369	373	376	377
35	9.65	31.9	68.4	106	147	218	335	375	354	320	304	311	326	340	353	365	373	377	379
40	12.3	44.7	79.3	118	159	218	289	307	295	283	287	306	324	340	355	368	376	381	382
45	9.77	28.0	60.4	94.0	131	173	223	256	263	262	266	283	304	324	345	365	380	391	395
50	11.3	37.6	67.6	100	135	165	191	214	230	241	255	278	300	325	351	375	394	406	409
55	10.1	23.5	50.5	78.6	109	135	155	176	195	210	222	242	268	295	327	359	386	405	414
60	10.8	30.7	55.5	81.0	105	121	134	154	173	189	203	227	257	291	329	366	396	414	419
65	10.3	18.8	39.3	60.7	81.5	96.3	107	122	138	152	165	182	207	238	272	307	336	357	367
70	10.6	22.3	40.2	57.8	71.9	80.0	90.5	102	114	125	138	156	181	211	243	273	297	311	315
75	10.6	14.4	26.8	40.8	53.0	59.8	66.7	75.2	83.3	90.9	100	113	131	155	182	210	233	247	252
80	10.9	15.1	24.6	34.5	41.0	44.3	49.7	54.7	58.6	63.8	71.4	82.6	99.0	120	143	167	183	189	189
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
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Operators:Bob Chen
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V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.7V I:1.904A P:404.0W PF:0.9728 Lamp Flux:66069.8x1 lm		
NAME: FL-400H-60130	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

Table--2

UNIT: ×10cd

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	131	138	157	163	162	157	141	112	97.6	94.1	85.7	77.5	65.3	54.2	45.8	40.7	36.1	33.3	
-75	202	210	222	234	240	247	248	228	183	138	127	113	95.7	75.8	58.4	46.1	38.6	33.1	
-70	278	289	299	308	324	341	343	315	225	172	159	135	110	82.5	60.1	44.5	35.6	31.7	
-65	474	525	591	653	693	722	722	683	588	440	279	190	151	112	78.4	54.2	39.4	31.1	
-60	704	813	937	1032	1089	1113	1079	993	838	580	298	212	164	112	74.6	49.8	35.0	29.9	
-55	1999	2047	2107	2160	2177	2161	2108	2006	1844	1538	991	445	223	155	102	63.8	41.4	29.0	
-50	3326	3329	3324	3312	3260	3177	3067	2913	2655	2136	1176	430	224	156	94.6	56.5	35.7	28.1	
-45	3465	3472	3476	3478	3470	3443	3408	3351	3230	2922	2243	1129	385	201	130	75.1	43.3	27.4	
-40	3608	3620	3628	3643	3661	3684	3711	3720	3621	3298	2476	1083	335	186	114	62.7	35.0	26.5	
-35	3444	3454	3465	3478	3503	3536	3588	3642	3662	3541	3110	1991	729	260	155	88.6	45.6	26.2	
-30	3286	3298	3311	3332	3368	3426	3510	3599	3652	3545	3056	1793	558	220	139	75.5	35.7	25.1	
-25	3089	3095	3106	3119	3147	3192	3267	3362	3450	3459	3226	2398	1057	330	168	101	50.6	25.2	
-20	2896	2902	2909	2925	2956	3011	3097	3202	3288	3274	2931	1939	729	241	147	85.0	36.3	24.1	
-15	2696	2694	2692	2692	2706	2740	2801	2889	2980	3026	2868	2247	1171	378	170	109	58.3	24.0	
-10	2494	2485	2473	2467	2478	2513	2568	2653	2729	2726	2440	1762	786	264	143	92.5	42.2	22.2	
-5	2079	2078	2080	2083	2097	2124	2170	2238	2315	2354	2222	1792	1062	370	161	109	63.2	22.3	
0	1662	1673	1687	1707	1734	1767	1818	1889	1949	1940	1730	1335	663	230	133	89.3	44.4	19.9	
5	1115	1119	1127	1139	1162	1197	1255	1345	1449	1528	1488	1272	825	316	148	104	62.0	20.4	
10	568	571	575	587	614	666	756	885	1025	1127	1114	948	510	198	125	85.2	42.9	16.6	
15	477	478	479	482	492	513	554	625	728	844	907	848	584	248	137	96.8	57.6	18.1	
20	387	387	385	384	384	387	401	439	526	635	684	614	341	163	116	78.8	38.0	14.6	
25	382	382	379	375	370	365	363	373	411	479	541	539	381	191	127	89.3	52.3	15.9	
30	377	375	370	362	352	340	330	329	345	381	418	391	234	147	109	72.5	34.7	12.5	
35	379	376	370	360	348	334	320	306	307	321	342	338	248	159	116	81.3	46.7	14.1	
40	379	373	362	349	333	317	297	280	277	279	275	240	174	131	96.0	63.8	29.5	11.8	
45	394	387	373	354	332	312	291	269	256	251	241	220	175	136	103	71.5	40.5	12.8	
50	404	391	369	342	315	290	266	244	232	217	195	168	142	114	83.1	55.0	25.8	11.3	
55	411	398	374	343	310	280	252	228	212	197	178	155	133	111	85.1	59.6	33.6	12.0	
60	410	388	355	318	280	247	218	196	182	163	142	123	107	88.2	66.5	43.8	20.7	11.4	
65	364	350	325	293	258	225	195	172	157	142	126	110	95.3	81.6	64.9	45.9	25.9	11.4	
70	309	294	270	240	208	178	152	135	121	109	96.9	84.6	73.3	62.6	48.4	32.1	16.4	11.1	
75	251	243	225	200	173	146	123	106	94.6	85.7	77.6	69.0	60.3	52.5	43.1	31.1	18.5	11.1	
80	188	180	161	138	116	94.3	78.1	67.4	60.7	56.0	51.6	46.3	40.8	35.8	28.4	19.6	12.4	10.8	
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:Bob Chen
Test Date:2019-12-16

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: