

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	597.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	119.3V x 145.4H
	At 50% of Imax	50.8V x 131.8H
	At 90% of Imax	17.8V x 125.6H

Beam Flux	Total	997.0 lumens per klm.
	To 10% of Imax	940.8 lumens per klm.
	To 50% of Imax	641.4 lumens per klm.
	To 90% of Imax	86.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

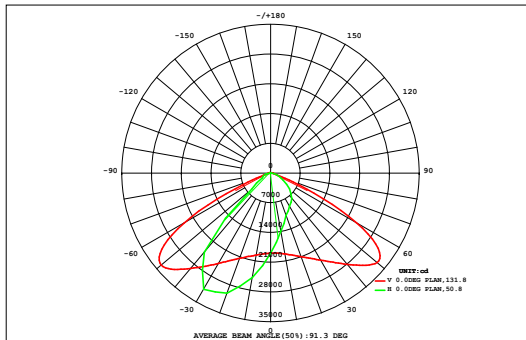
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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:215.7V I:1.931A P:404.0W PF:0.9740 Lamp Flux:67504.9x1 lm		
NAME: FL-400H-85135	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:167.09lm/W	
MODEL	FL-400H-85135	Imax(cd)	40308
NOMINAL POWER(W)	400	AVAILABILITY(%)	94.3
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	63662
NOMINAL FLUX(lm)	67504.9	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	67505
TEST VOLTAGE(V)	220	θ @50%(H,V)	132,51DEG

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	0.49	2.38	6.20	12.9	19.8	26.7	36.1	44.3	48.6	48.6	44.2	36.4	27.1	20.2	13.3	6.43	2.50	0.52	397	0.00
70	0.54	3.45	10.6	22.3	35.2	49.6	67.0	77.5	80.9	80.8	77.2	66.5	49.2	35.2	22.7	10.9	3.64	0.59	694	0.00
60	0.68	5.00	15.5	35.4	65.0	96.5	119	130	136	136	132	119	95.3	63.9	35.4	16.0	5.22	0.75	1207	618
50	0.82	6.23	22.7	65.7	124	165	186	199	207	209	204	191	166	123	65.2	23.1	6.62	0.93	1966	1825
40	0.96	7.34	38.3	130	213	238	244	251	257	260	258	251	237	208	129	38.7	7.84	1.08	2772	2700
30	1.06	8.75	66.6	236	329	316	298	293	296	299	301	304	309	315	233	67.5	9.39	1.23	3683	3632
	1.14	10.6	107	370	468	433	395	376	368	369	379	393	416	446	364	109	11.3	1.35	5019	4980
	1.18	11.9	149	489	615	587	548	517	497	494	512	535	561	587	485	152	13.0	1.45	6755	6720
	1.17	12.5	175	563	747	748	716	688	670	663	674	695	718	719	556	175	13.6	1.48	8536	8505
	1.05	11.3	171	583	838	887	879	864	849	841	846	853	855	812	578	177	13.3	1.44	10061	10029
-30	0.96	9.42	133	533	845	939	959	964	958	951	947	934	911	822	528	134	11.2	1.32	10581	10542
-40	0.90	7.07	66.0	372	709	840	871	886	889	881	868	845	809	690	375	74.7	8.95	1.24	9195	9146
-50	0.89	5.77	29.7	171	371	446	471	491	502	499	483	459	428	363	174	32.7	7.06	1.20	4936	4864
-60	0.90	4.90	15.7	36.3	49.9	48.2	56.8	67.8	75.4	77.1	71.5	59.4	48.6	49.7	40.6	17.7	5.98	1.23	728	103
-70	0.93	4.27	10.9	20.9	28.5	35.3	42.1	47.9	50.4	50.3	47.8	42.6	36.4	30.2	21.8	12.1	5.16	1.25	489	0.00
-80	0.94	3.63	8.11	13.7	20.7	25.6	31.7	38.7	42.6	43.0	39.7	32.8	26.4	21.7	14.8	9.38	4.55	1.28	379	0.00
-90	0.47	1.62	3.03	4.41	5.46	6.71	8.42	10.4	12.0	12.2	10.9	8.93	7.08	5.83	4.90	3.57	2.05	0.64	109	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	15.1	116	1028	3659	5484	5887	5928	5947	5937	5914	5895	5827	5700	5313	3642	1060	131	19.0	67505	---
Φ a	0.00	0.00	826	3478	5276	5653	5643	5626	5597	5573	5571	5542	5463	5101	3455	857	0.00	0.00	---	63662

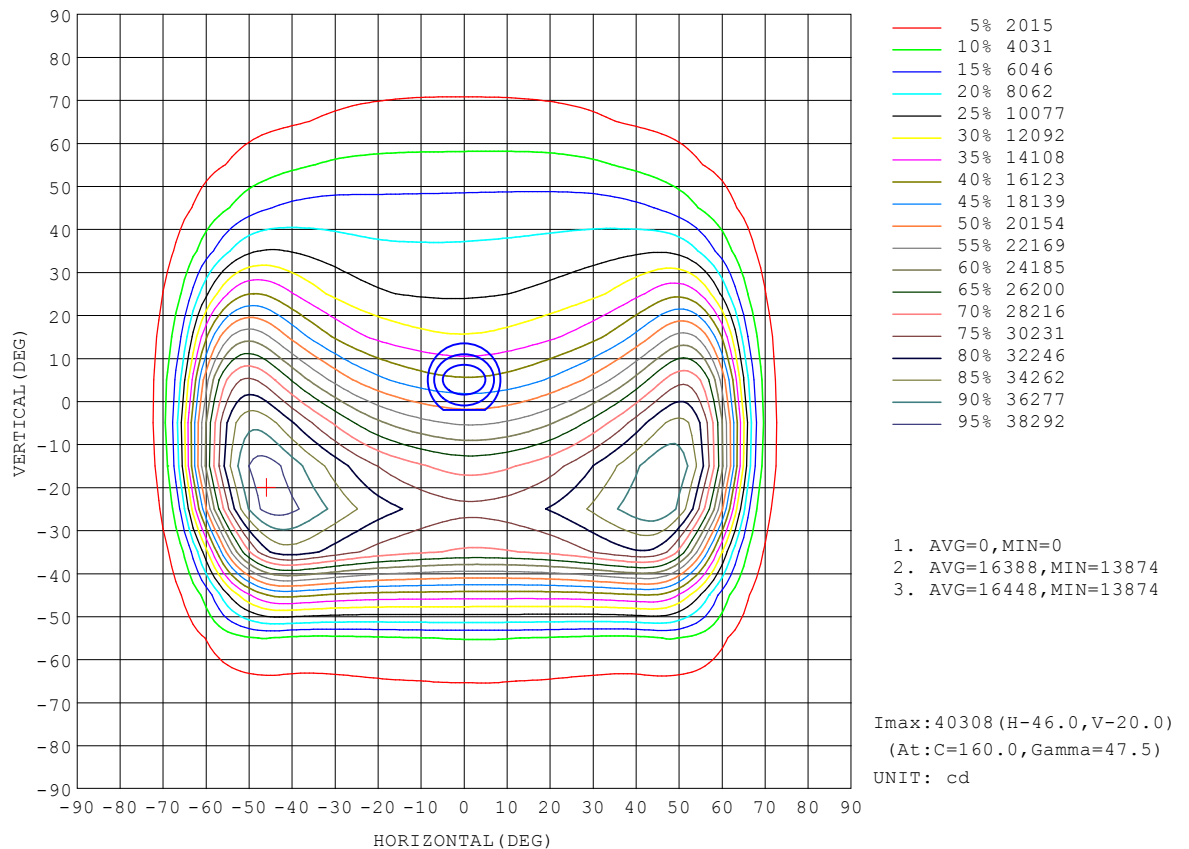
one-half-peak spread: U:14.8,D:36.4 , L:15.9,R:15.9
 Beam Type: Type 7 x 6 (H x V)

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:215.7V I:1.931A P:404.0W PF:0.9740 Lamp Flux:67504.9x1 lm		
NAME: FL-400H-85135	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

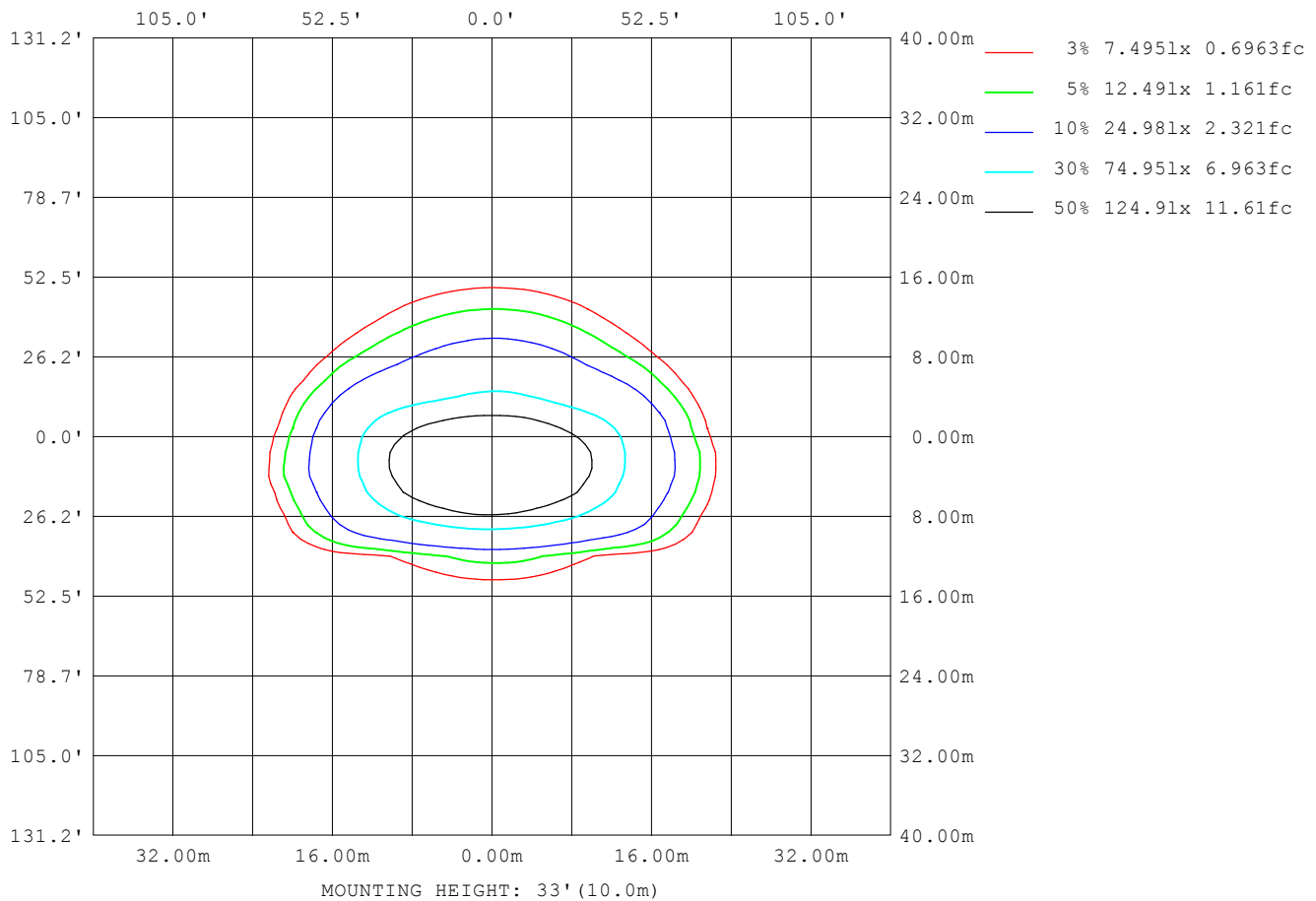


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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

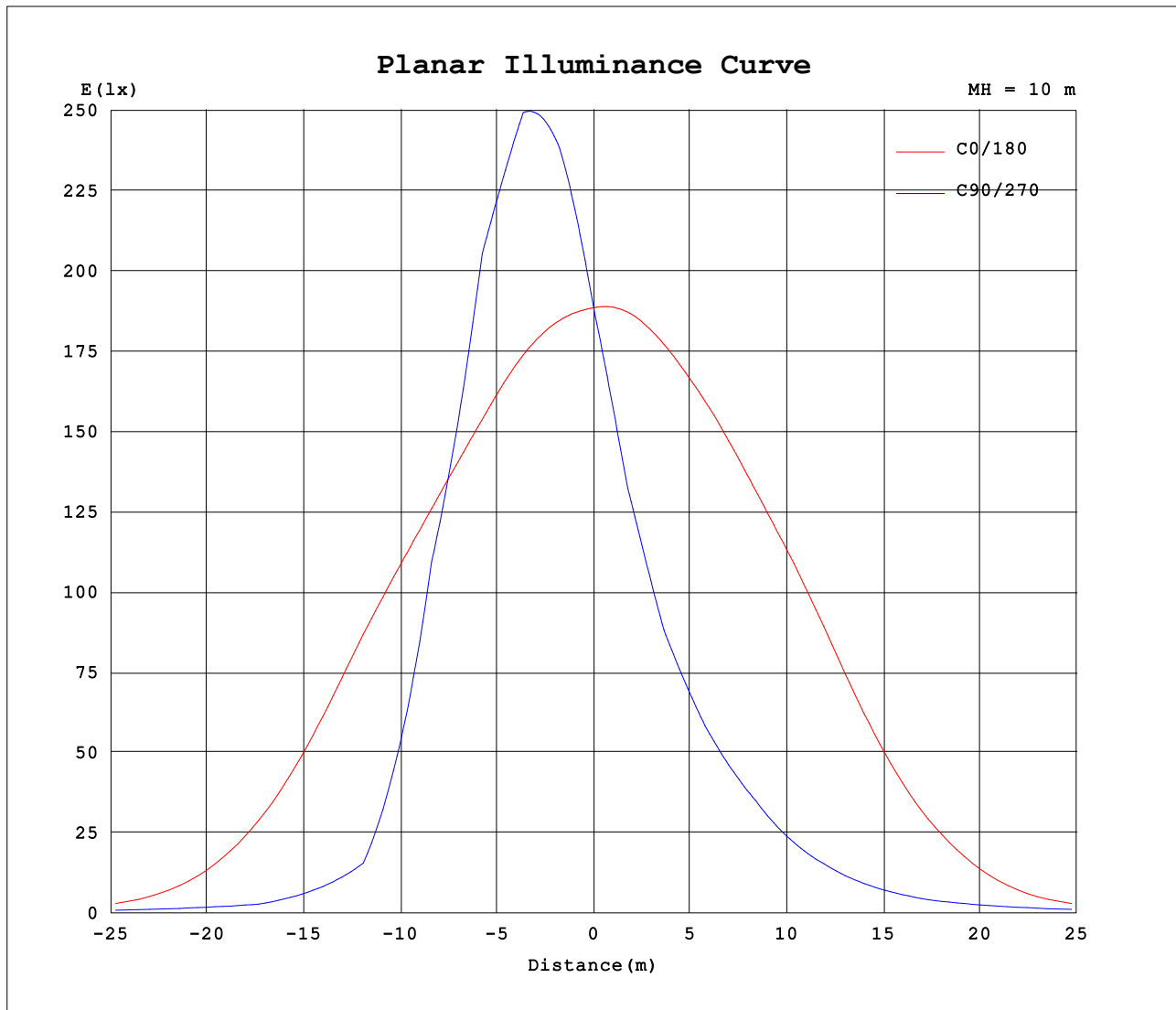
Test:U:215.7V I:1.931A P:404.0W PF:0.9740 Lamp Flux:67504.9x1 lm		
NAME: FL-400H-85135	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



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

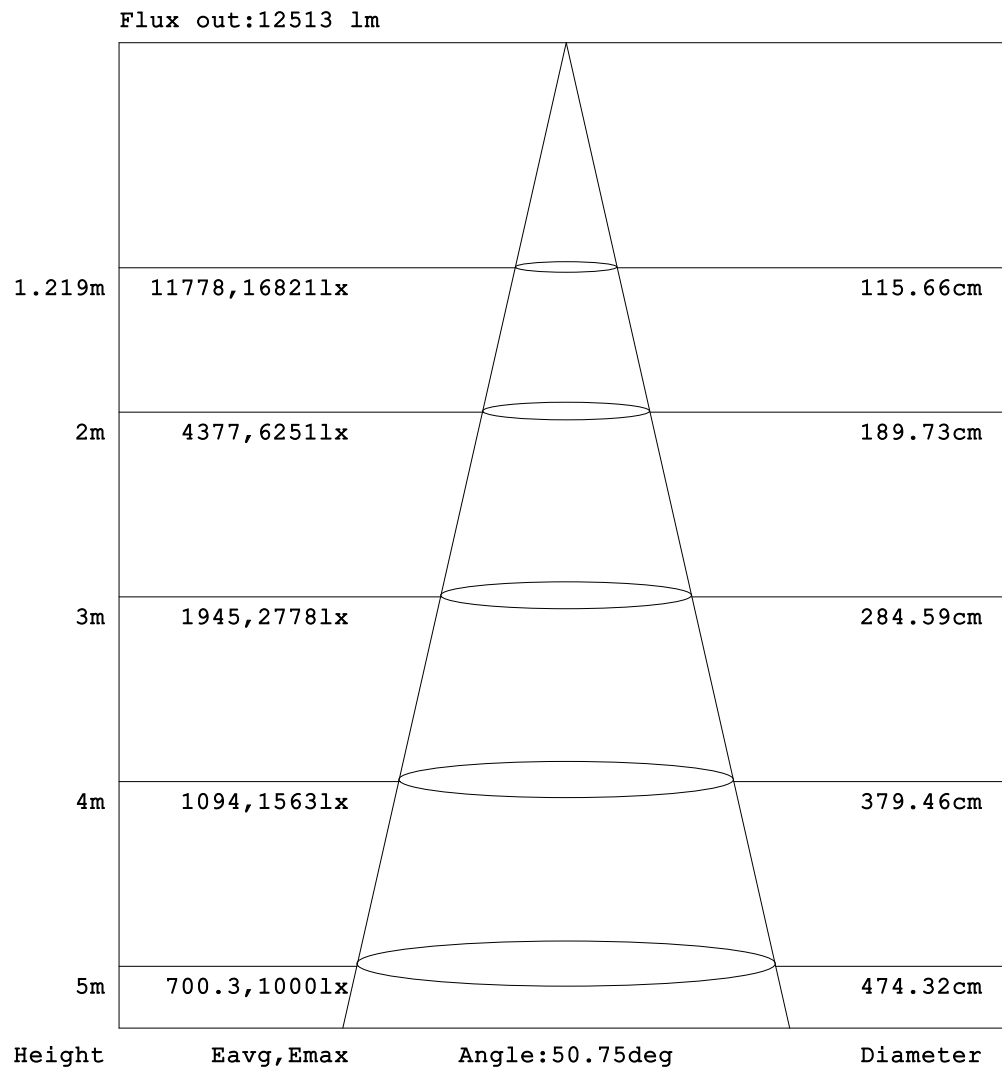


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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:215.7V I:1.931A P:404.0W PF:0.9740 Lamp Flux:67504.9x1 lm		
NAME: FL-400H-85135	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:215.7V I:1.931A P:404.0W PF:0.9740 Lamp Flux:67504.9x1 lm		
NAME: FL-400H-85135	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	31.2	34.4	38.1	42.2	47.1	52.3	57.3	61.0	64.7	66.7	67.9	69.9	73.5	78.8	84.1	90.4	95.8	98.9	100.0
-75	30.1	33.7	38.9	45.2	53.7	63.2	73.3	82.4	90.7	99.6	101	102	107	114	122	130	135	138	139
-70	29.0	33.0	39.6	48.1	60.3	74.1	89.3	104	117	132	134	135	141	149	160	169	174	177	178
-65	27.6	32.3	40.3	52.1	67.7	86.9	114	142	162	171	168	169	174	182	190	197	201	204	204
-60	26.3	31.5	41.0	56.0	75.1	99.7	138	181	207	210	203	203	208	214	221	225	228	230	231
-55	24.9	30.6	41.6	59.6	83.5	126	207	304	386	403	365	348	353	364	376	388	399	406	410
-50	23.6	29.6	42.1	63.2	92.0	151	275	428	565	596	527	493	498	513	531	551	569	581	589
-45	22.5	29.0	43.8	69.1	110	226	483	983	1388	1636	1673	1631	1588	1556	1536	1527	1522	1516	1511
-40	21.3	28.3	45.4	75.0	127	300	691	1537	2210	2677	2819	2768	2677	2600	2541	2503	2476	2450	2433
-35	20.3	27.8	47.8	81.1	158	430	1145	2081	2801	3234	3334	3254	3141	3038	2956	2900	2856	2820	2796
-30	19.4	27.4	50.2	87.2	190	561	1599	2624	3393	3791	3849	3740	3604	3476	3371	3298	3236	3189	3160
-25	18.6	27.7	53.7	95.9	238	804	2007	2980	3640	3910	3872	3728	3574	3431	3315	3234	3165	3113	3082
-20	17.8	28.0	57.3	105	286	1047	2415	3337	3887	4030	3895	3716	3545	3386	3260	3170	3094	3037	3005
-15	17.1	29.0	60.3	109	314	1143	2452	3343	3832	3899	3727	3527	3336	3160	3019	2920	2842	2784	2750
-10	16.5	30.1	63.4	114	341	1239	2490	3349	3777	3768	3558	3339	3127	2934	2778	2669	2590	2530	2496
-5	15.9	32.3	65.2	115	353	1195	2421	3238	3571	3487	3243	3007	2791	2603	2457	2351	2275	2220	2191
0	15.2	34.6	66.9	116	364	1151	2351	3127	3364	3205	2928	2676	2456	2273	2135	2033	1960	1910	1886
5	14.7	33.6	65.7	113	335	997	2130	2840	3046	2875	2601	2361	2158	1990	1865	1771	1703	1656	1637
10	14.1	32.6	64.5	110	306	843	1908	2553	2728	2546	2275	2046	1860	1707	1594	1510	1445	1402	1387
15	13.6	31.8	63.2	105	276	711	1581	2171	2350	2206	1966	1759	1589	1457	1366	1304	1260	1233	1225
20	13.1	31.1	61.9	100	245	580	1254	1790	1972	1867	1658	1473	1319	1208	1138	1098	1075	1063	1063
25	12.8	29.6	59.3	95.6	205	465	964	1408	1605	1564	1419	1279	1166	1085	1033	1004	988	980	981
30	12.4	28.0	56.7	91.1	164	350	674	1026	1238	1262	1180	1085	1014	963	928	909	900	897	899
35	12.2	26.7	53.9	86.9	143	281	513	775	965	1019	994	951	911	877	854	843	838	837	840
40	12.0	25.4	51.0	82.7	121	211	352	524	691	777	808	817	808	792	781	777	776	777	781
45	11.9	23.7	46.3	74.5	110	172	270	391	514	599	646	670	678	676	674	674	675	677	681
50	11.8	22.1	41.7	66.3	98.5	133	189	258	337	422	485	523	547	559	566	571	575	577	581
55	11.7	20.5	37.0	59.1	87.0	116	158	206	260	317	364	400	427	442	450	455	458	459	461
60	11.6	19.0	32.3	52.0	75.6	100	126	155	182	211	244	278	308	325	334	339	341	341	342
65	11.6	17.1	27.5	42.3	60.7	80.6	104	127	148	166	185	207	231	250	262	268	271	271	272
70	11.5	15.2	22.8	32.6	45.8	61.1	80.9	98.6	114	121	125	135	154	175	190	197	201	202	201
75	11.5	13.9	19.2	26.0	34.5	44.3	56.9	70.3	81.6	87.5	91.2	99.3	112	125	135	143	148	150	149
80	11.5	12.6	15.6	19.3	23.3	27.6	32.9	41.9	49.2	53.6	57.0	63.5	69.8	74.9	80.4	87.8	94.7	97.6	97.4
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: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:215.7V I:1.931A P:404.0W PF:0.9740 Lamp Flux:67504.9x1 lm																		
NAME: FL-400H-85135									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	100	98.1	93.8	88.1	82.5	76.6	73.0	71.2	70.3	69.2	66.7	64.8	61.4	57.4	53.6	50.3	46.9	42.4	
-75	139	137	133	126	118	110	106	105	104	95.8	88.8	81.5	73.0	64.7	56.9	51.2	46.5	41.8	
-70	178	176	171	163	153	144	138	138	137	122	111	98.2	84.7	72.0	60.1	52.1	46.2	41.2	
-65	205	203	199	193	185	178	173	172	176	168	151	123	97.3	79.5	63.9	52.4	45.0	39.8	
-60	231	230	227	223	217	211	207	207	215	214	190	148	110	87.0	67.6	52.8	43.9	38.4	
-55	411	408	399	387	371	357	348	356	396	401	329	227	140	98.6	72.8	53.8	43.0	36.9	
-50	591	586	572	551	525	503	489	505	577	587	467	306	171	110	78.0	54.9	42.1	35.4	
-45	1508	1508	1507	1511	1521	1539	1568	1600	1599	1396	1004	526	249	129	85.4	56.8	40.9	34.1	
-40	2425	2430	2443	2471	2516	2575	2647	2696	2621	2205	1541	745	327	148	92.8	58.8	39.8	32.9	
-35	2794	2809	2839	2881	2946	3032	3129	3202	3148	2772	2089	1210	483	186	102	62.7	39.5	32.0	
-30	3163	3189	3235	3291	3377	3489	3612	3709	3675	3340	2636	1674	639	225	111	66.5	39.2	31.1	
-25	3088	3119	3174	3240	3338	3466	3609	3741	3797	3571	2964	2040	855	263	118	69.9	39.5	30.3	
-20	3013	3050	3113	3189	3299	3442	3606	3773	3918	3803	3292	2406	1071	301	125	73.3	39.9	29.5	
-15	2758	2797	2862	2948	3070	3227	3405	3595	3773	3749	3309	2465	1199	336	130	76.5	41.8	28.6	
-10	2504	2544	2611	2706	2841	3011	3204	3416	3628	3694	3326	2524	1328	371	135	79.7	43.8	27.7	
-5	2199	2238	2305	2401	2529	2689	2883	3109	3350	3484	3208	2429	1232	366	131	79.0	44.0	26.5	
0	1894	1933	2000	2095	2217	2367	2562	2802	3072	3274	3091	2334	1136	361	127	78.2	44.2	25.4	
5	1647	1687	1753	1840	1949	2084	2258	2480	2743	2960	2815	2139	1019	342	123	76.8	43.0	24.0	
10	1400	1441	1506	1585	1682	1801	1955	2158	2414	2646	2540	1944	902	324	119	75.5	41.7	22.6	
15	1236	1267	1314	1375	1453	1553	1690	1869	2093	2277	2150	1592	741	283	115	72.4	39.5	21.2	
20	1073	1092	1123	1165	1224	1306	1425	1580	1771	1908	1761	1240	581	242	110	69.4	37.4	19.9	
25	990	1006	1030	1064	1108	1166	1249	1360	1492	1559	1395	963	472	208	105	66.4	35.5	18.7	
30	907	920	938	962	992	1026	1073	1140	1213	1210	1029	687	363	174	100	63.5	33.5	17.5	
35	847	856	868	884	904	925	947	971	989	946	775	517	286	150	93.3	59.2	31.1	16.6	
40	786	791	799	806	815	824	820	801	766	682	520	348	210	125	86.6	54.9	28.7	15.8	
45	684	687	691	693	693	690	674	643	592	509	388	270	174	115	78.6	50.5	26.9	15.1	
50	582	583	582	579	572	556	527	484	419	335	256	192	139	104	70.6	46.0	25.0	14.5	
55	462	462	461	456	446	428	398	360	312	258	206	160	121	90.8	62.1	40.3	22.9	14.0	
60	342	342	340	333	321	300	270	236	206	181	156	128	103	77.5	53.6	34.6	20.7	13.6	
65	271	271	268	261	248	228	203	182	165	149	129	106	83.3	62.9	44.3	29.5	18.6	13.2	
70	201	199	196	188	175	156	137	127	124	117	102	83.5	63.7	48.3	35.0	24.4	16.6	12.9	
75	149	147	142	135	126	114	101	92.8	89.2	83.8	72.3	58.7	46.1	36.1	27.5	20.4	14.9	12.6	
80	97.7	94.7	88.1	81.2	75.9	71.2	64.8	58.5	54.7	50.5	43.0	33.9	28.5	24.0	20.0	16.3	13.3	12.3	
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: