

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	491.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	114.0V x 105.4H
	At 50% of Imax	94.6V x 96.9H
	At 90% of Imax	73.1V x 74.7H

Beam Flux	Total	995.3 lumens per klm.
	To 10% of Imax	968.3 lumens per klm.
	To 50% of Imax	893.6 lumens per klm.
	To 90% of Imax	581.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.5 %

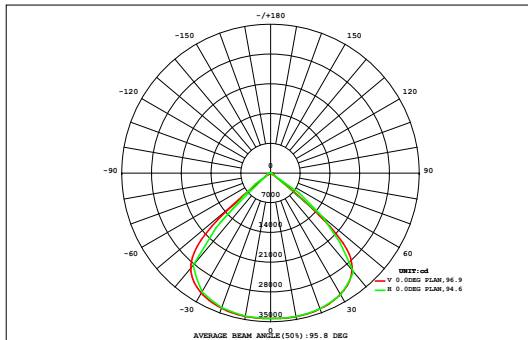
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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:218.4V I:1.910A P:403.8W PF:0.9727 Lamp Flux:69807.7x1 lm		
NAME: FL-400H-90	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:172.86lm/W	
MODEL	FL-400H-90	Imax(cd)	34326
NOMINAL POWER(W)	400	AVAILABILITY(%)	97.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	68087
NOMINAL FLUX(lm)	69807.7	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	69808
TEST VOLTAGE(V)	220	θ @50% (H,V)	97,95DEG

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	0.20	0.76	1.57	2.64	3.79	5.08	6.14	6.93	7.40	7.42	7.01	6.28	5.24	4.00	2.88	1.79	0.90	0.24	70.3	0.00
70	0.19	0.84	2.02	3.64	5.42	7.48	9.56	11.2	12.0	12.0	11.1	9.58	7.64	5.70	3.98	2.34	1.09	0.27	106	0.00
60	0.22	1.05	2.76	5.02	8.08	12.3	29.1	109	180	181	112	29.9	12.3	8.52	5.60	3.28	1.44	0.35	702	554
50	0.24	1.30	3.39	6.68	12.6	110	295	515	681	684	524	301	109	13.1	7.56	4.23	1.85	0.43	3270	3154
40	0.27	1.53	4.07	8.58	69.6	434	820	961	1006	1007	968	833	441	73.1	9.66	5.16	2.23	0.50	6645	6574
30	0.30	1.71	4.71	12.0	256	719	886	976	1021	1022	981	894	741	265	13.0	5.99	2.56	0.57	7801	7745
	0.34	1.88	5.26	23.7	442	765	909	995	1036	1037	999	915	777	453	25.0	6.56	2.77	0.63	8394	8346
	0.40	2.04	5.64	43.5	502	779	919	1002	1039	1040	1006	925	791	522	44.3	6.94	2.91	0.67	8630	8582
	0.48	2.26	6.00	45.1	494	775	916	1000	1037	1038	1004	923	787	508	43.2	7.18	3.03	0.72	8590	8542
	0.53	2.48	6.27	24.5	409	746	898	987	1029	1031	992	906	760	424	26.8	7.41	3.20	0.77	8253	8200
	0.58	2.66	6.53	13.7	237	659	853	953	1001	1002	958	862	676	240	13.7	7.52	3.30	0.80	7490	7423
-30	0.63	2.76	6.55	12.6	55.7	401	713	861	923	925	868	724	416	59.8	13.7	7.48	3.32	0.82	5994	5908
-40	0.66	2.75	6.34	11.7	13.9	71.5	340	504	597	600	511	343	69.7	14.1	12.5	7.09	3.20	0.83	3110	2979
-50	0.66	2.57	5.83	10.1	15.1	13.5	13.9	31.3	73.4	74.9	32.3	13.8	14.1	15.9	10.8	6.41	3.00	0.82	339	80.1
-60	0.64	2.32	5.05	8.59	12.3	16.0	18.6	15.1	12.7	12.7	15.1	19.1	16.5	12.8	9.03	5.49	2.74	0.79	186	0.00
-70	0.62	2.08	4.10	6.79	9.50	12.0	14.2	15.7	16.5	16.6	15.9	14.5	12.4	9.86	7.17	4.57	2.44	0.76	166	0.00
-80	0.31	0.96	1.74	2.65	3.61	4.54	5.27	5.74	6.03	6.08	5.87	5.41	4.68	3.80	2.85	1.92	1.10	0.36	62.9	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	7.25	32.0	77.8	242	2549	5530	7644	8950	9678	9698	9009	7726	5639	2632	252	91.4	41.1	10.3	69808	---
Φ a	0.00	0.00	0.00	79.1	2415	5419	7524	8856	9577	9598	8915	7608	5525	2493	77.7	0.00	0.00	0.00	---	68087

one-half-peak spread: U:35.5,D:39.3 , L:41.5,R:38.5

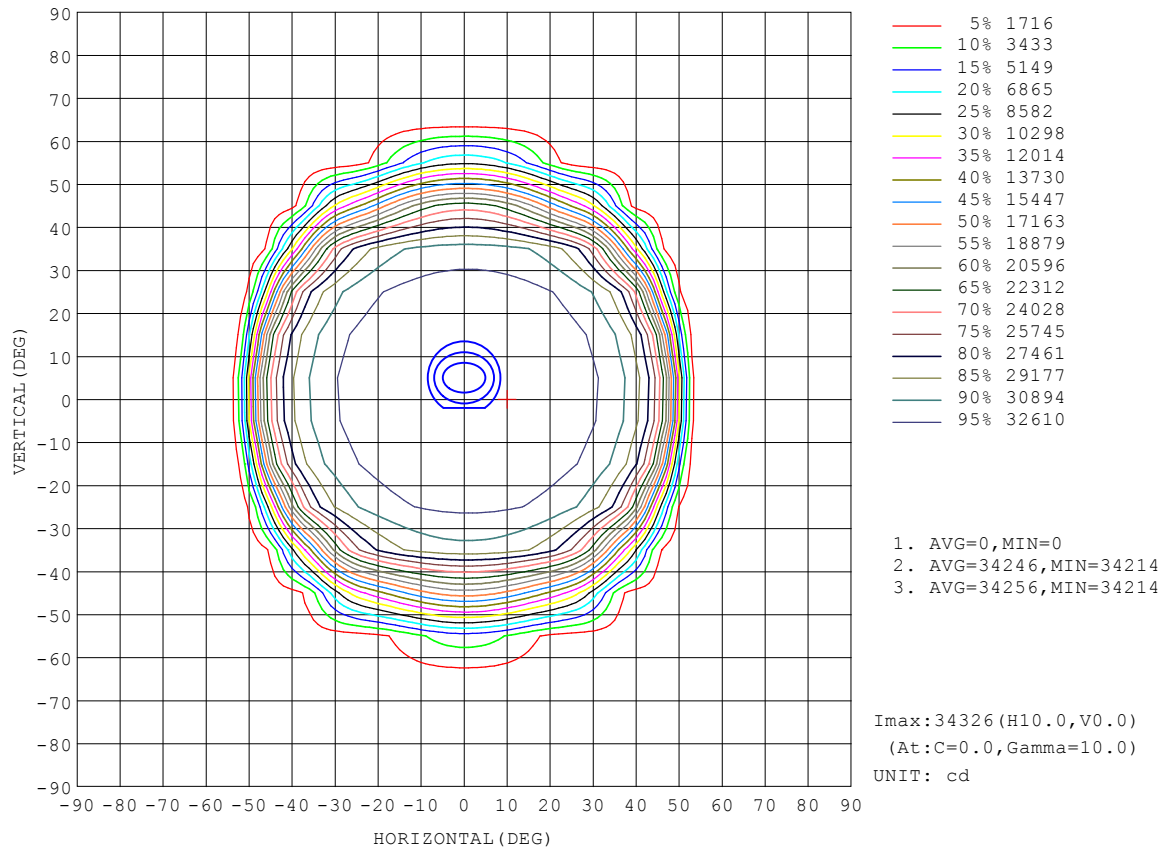
NEMA Beam Type: Type 6

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:218.4V I:1.910A P:403.8W PF:0.9727 Lamp Flux:69807.7x1 lm		
NAME: FL-400H-90	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

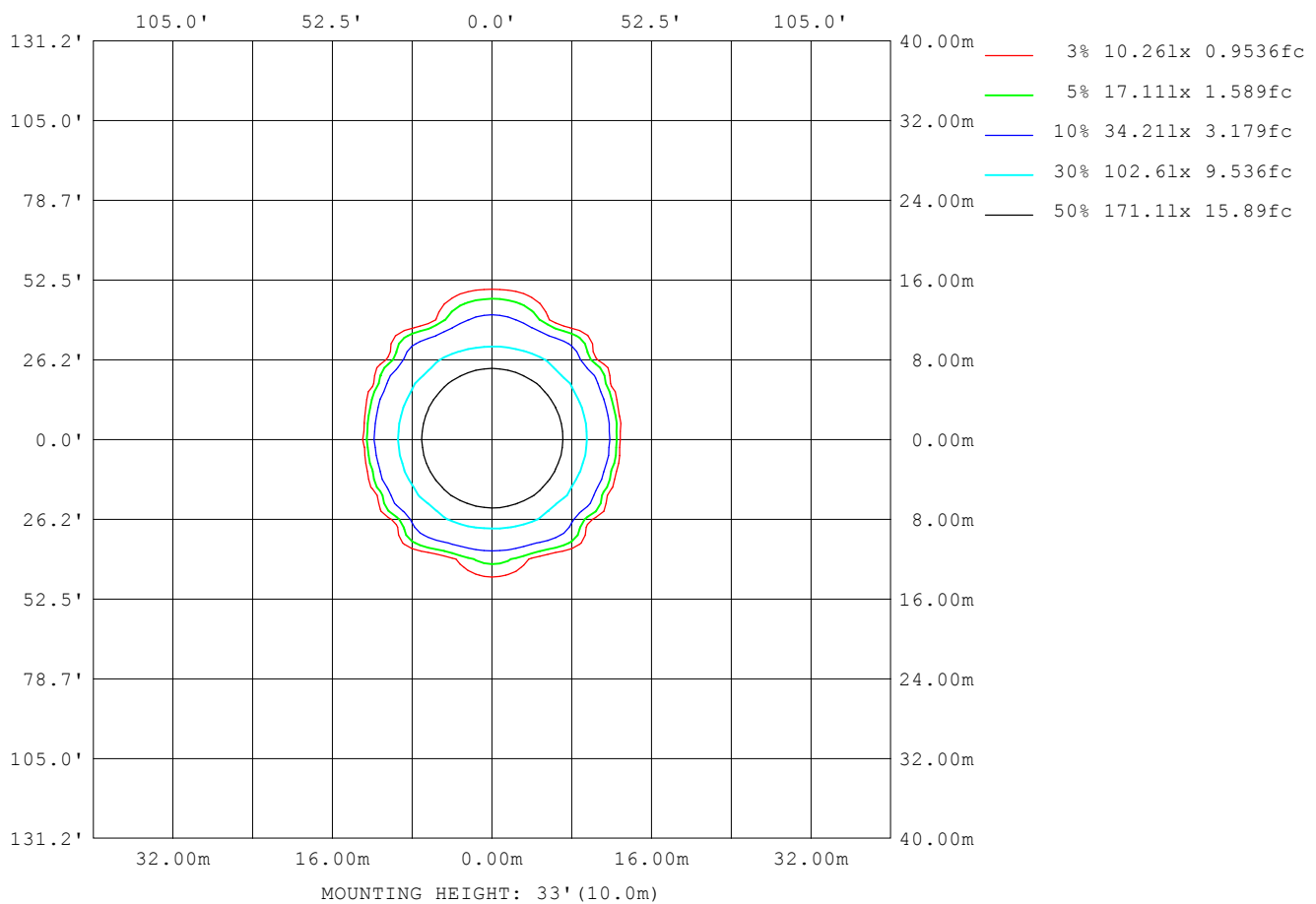


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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

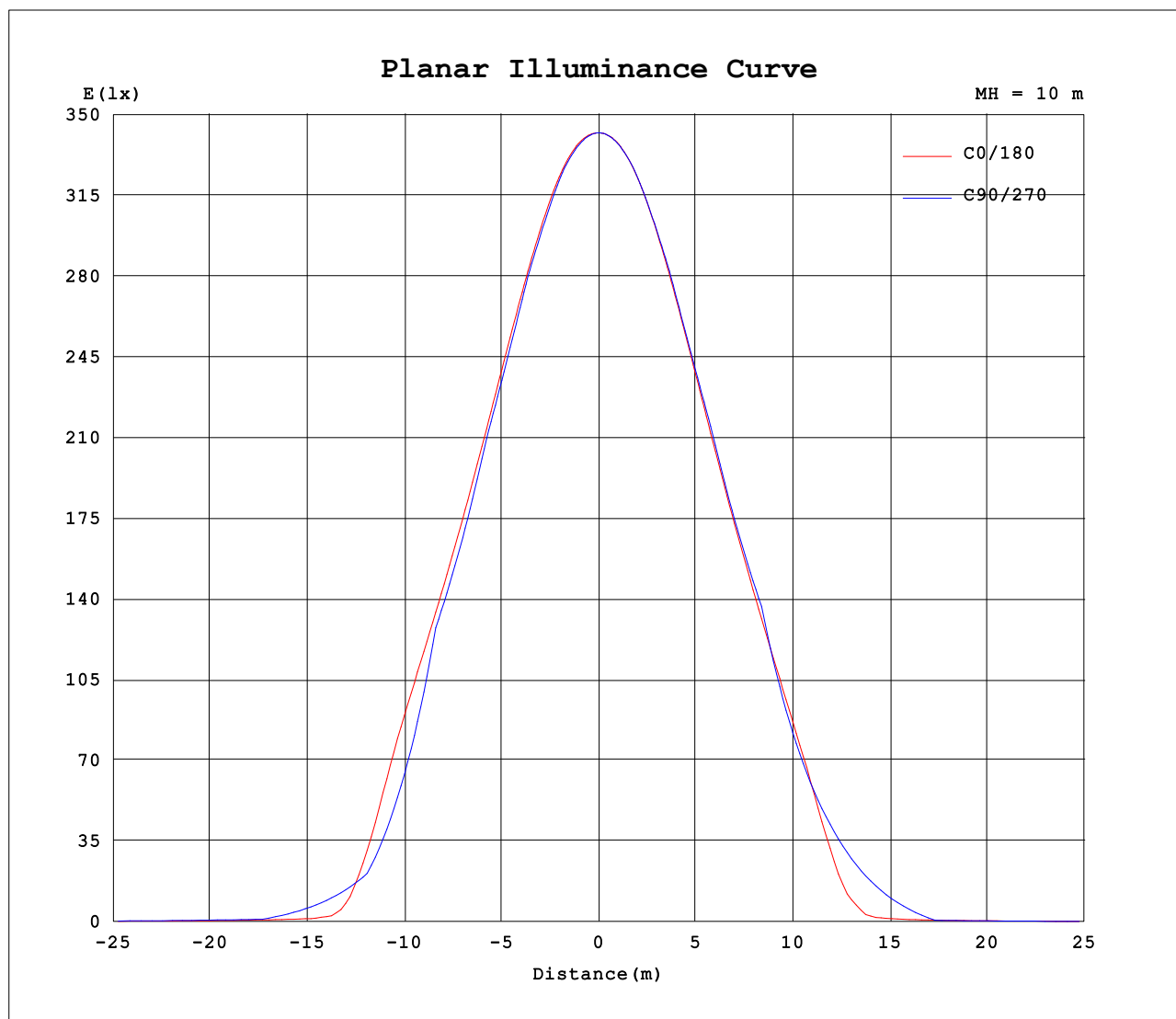
Test:U:218.4V I:1.910A P:403.8W PF:0.9727 Lamp Flux:69807.7x1 lm		
NAME: FL-400H-90	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



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

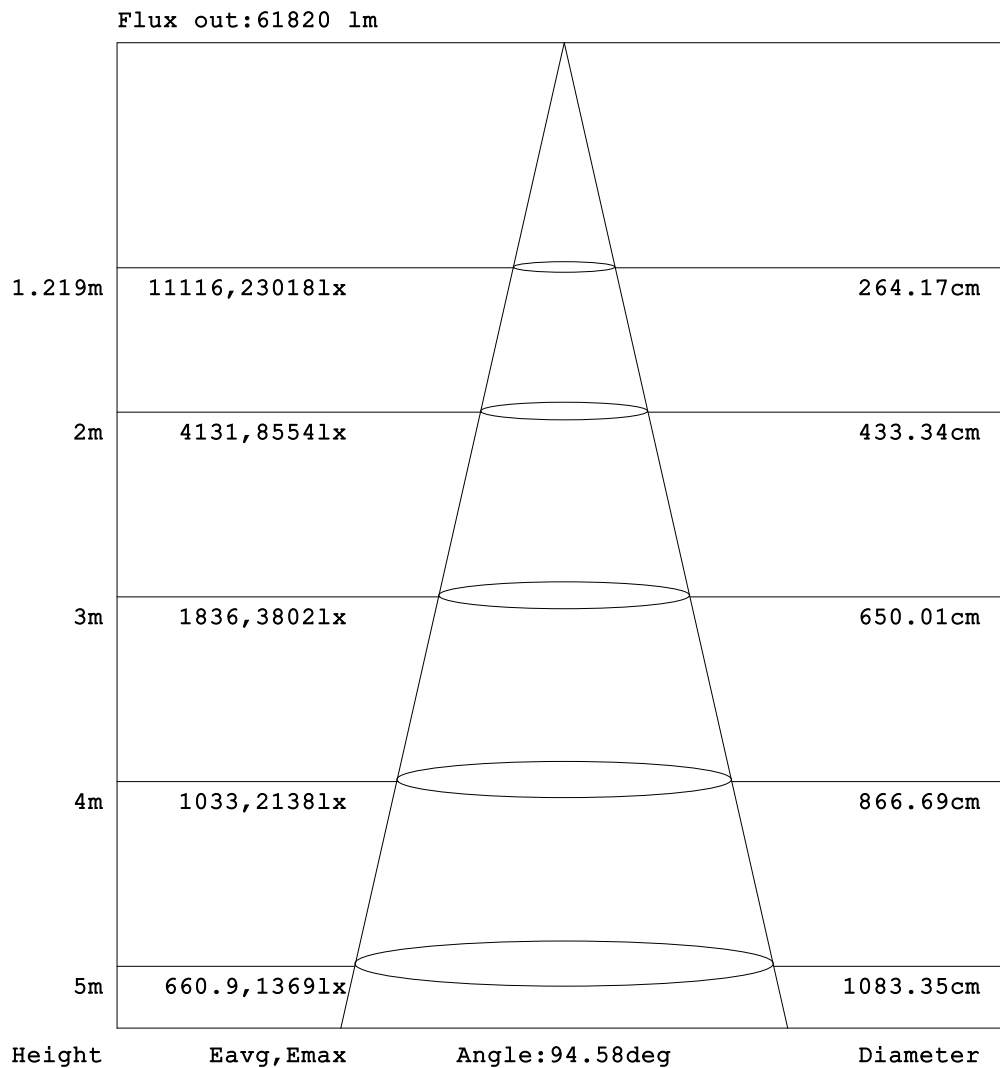


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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:218.4V I:1.910A P:403.8W PF:0.9727 Lamp Flux:69807.7x1 lm		
NAME: FL-400H-90	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:218.4V I:1.910A P:403.8W PF:0.9727 Lamp Flux:69807.7x1 lm		
NAME: FL-400H-90	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	22.0	23.1	24.0	24.9	26.5	28.6	30.9	33.2	35.2	37.1	38.7	40.4	41.9	42.8	43.5	44.0	44.5	44.9	45.2
-75	21.7	23.0	24.4	26.1	28.8	31.8	35.2	38.8	41.5	44.1	46.2	48.4	50.4	51.8	53.0	53.9	54.6	55.1	55.4
-70	21.5	22.9	24.9	27.3	31.0	34.9	39.4	44.4	47.9	51.0	53.7	56.4	58.9	60.9	62.6	63.9	64.8	65.3	65.5
-65	21.7	23.2	25.6	28.8	33.3	38.7	44.0	49.0	53.4	57.5	61.2	64.9	68.3	71.3	73.8	75.7	77.1	77.9	78.2
-60	21.8	23.5	26.3	30.3	35.6	42.5	48.5	53.6	58.9	64.0	68.7	73.3	77.7	81.6	85.0	87.6	89.4	90.5	90.8
-55	21.8	23.6	26.8	31.5	38.0	44.7	51.3	57.9	64.5	71.0	77.4	83.9	91.4	103	137	216	322	407	440
-50	21.7	23.7	27.4	32.6	40.3	47.0	54.2	62.1	70.1	78.0	86.1	94.5	105	125	188	345	554	723	789
-45	21.4	23.3	27.4	33.8	41.2	48.4	56.8	66.2	75.9	87.3	113	318	780	1121	1319	1495	1655	1769	1813
-40	21.2	23.0	27.3	35.0	42.1	49.7	59.4	70.3	81.8	96.6	140	542	1455	2116	2450	2646	2757	2816	2837
-35	20.5	22.1	26.6	34.6	41.5	49.8	60.7	73.1	90.1	208	820	1453	2105	2537	2762	2896	2974	3016	3032
-30	19.9	21.1	26.0	34.2	41.0	49.9	62.0	76.0	98.3	319	1500	2363	2755	2958	3075	3147	3191	3217	3226
-25	18.8	20.0	25.0	33.3	40.1	49.4	62.0	78.4	201	977	2017	2636	2925	3081	3174	3233	3271	3291	3299
-20	17.7	18.9	24.1	32.4	39.1	48.9	62.1	80.9	303	1634	2535	2908	3094	3204	3274	3320	3350	3365	3372
-15	16.6	18.0	23.2	31.0	37.6	47.7	61.1	87.8	577	1948	2684	2995	3155	3253	3315	3355	3380	3392	3397
-10	15.6	17.1	22.2	29.6	36.0	46.4	60.1	94.7	851	2262	2833	3081	3217	3301	3356	3389	3410	3419	3422
-5	14.5	16.4	20.9	28.0	34.8	45.3	59.0	98.1	1024	2360	2879	3110	3239	3320	3370	3400	3417	3422	3422
0	13.3	15.7	19.6	26.4	33.6	44.3	57.8	101	1197	2457	2925	3139	3261	3338	3385	3411	3424	3426	3421
5	12.0	14.1	18.0	25.2	32.4	42.8	55.8	96.6	1071	2398	2899	3123	3249	3329	3378	3406	3421	3425	3424
10	10.7	12.6	16.4	23.9	31.1	41.3	53.8	91.6	945	2338	2873	3107	3238	3319	3370	3401	3418	3425	3427
15	9.38	11.5	15.6	23.1	30.1	39.8	51.5	79.3	653	2096	2766	3047	3195	3286	3343	3379	3401	3411	3415
20	8.04	10.4	14.8	22.4	29.1	38.3	49.2	67.0	362	1854	2659	2987	3152	3252	3316	3357	3383	3397	3402
25	7.42	9.82	14.1	21.3	27.5	35.9	45.9	60.1	220	1191	2255	2788	3032	3165	3246	3297	3330	3348	3355
30	6.81	9.23	13.4	20.3	25.9	33.4	42.6	53.2	79.0	529	1851	2589	2911	3078	3177	3238	3276	3298	3307
35	6.61	8.85	12.8	19.2	24.4	31.0	39.0	48.1	65.5	299	1019	1808	2451	2784	2967	3071	3131	3163	3175
40	6.41	8.48	12.2	18.1	23.0	28.5	35.5	43.1	52.1	69.6	187	1027	1990	2491	2758	2903	2985	3028	3044
45	6.27	8.04	11.5	15.9	21.2	25.9	31.6	38.1	45.3	57.2	119	544	1036	1327	1611	1905	2133	2272	2319
50	6.12	7.61	10.7	13.8	19.4	23.3	27.8	33.1	38.6	44.7	51.8	61.3	82.1	163	464	907	1281	1515	1595
55	6.01	7.22	9.98	12.7	17.0	21.1	24.7	28.7	33.0	37.7	43.0	49.6	61.8	104	255	478	666	783	823
60	5.90	6.84	9.26	11.6	14.6	18.9	21.6	24.4	27.5	30.8	34.3	38.0	41.4	44.6	47.2	49.3	50.9	51.9	52.2
65	5.83	6.41	8.43	10.4	12.7	15.7	18.5	20.7	23.1	25.4	27.9	30.6	33.2	35.5	37.4	38.9	40.0	40.7	40.9
70	5.77	5.99	7.60	9.22	10.9	12.5	15.3	17.1	18.8	20.0	21.5	23.2	24.9	26.4	27.6	28.5	29.2	29.5	29.6
75	5.80	5.81	6.84	8.04	9.26	10.5	12.2	13.5	14.7	15.7	17.0	18.3	19.4	20.3	21.0	21.6	22.1	22.4	22.5
80	5.82	5.63	6.07	6.86	7.68	8.39	9.04	9.92	10.7	11.5	12.5	13.4	13.9	14.2	14.5	14.7	15.0	15.3	15.4
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:218.4V I:1.910A P:403.8W PF:0.9727 Lamp Flux:69807.7x1 lm		
NAME: FL-400H-90	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	45.2	45.1	44.9	44.5	43.8	42.9	41.6	40.2	38.8	37.2	35.4	33.4	31.7	29.9	28.7	28.0	27.1	25.8	
-75	55.4	55.2	54.7	54.0	53.0	51.6	49.8	47.8	45.8	43.5	41.0	38.0	35.3	32.8	30.6	29.3	28.0	26.5	
-70	65.5	65.2	64.6	63.6	62.2	60.4	58.0	55.4	52.8	49.8	46.5	42.5	38.9	35.6	32.6	30.5	28.8	27.2	
-65	78.0	77.3	76.2	74.6	72.4	69.8	66.6	63.2	59.6	55.7	51.6	47.0	42.4	37.9	34.2	31.5	29.2	27.4	
-60	90.5	89.5	87.8	85.5	82.6	79.1	75.2	70.9	66.4	61.6	56.7	51.6	45.9	40.2	35.8	32.4	29.5	27.5	
-55	412	331	222	137	101	91.5	85.7	79.8	73.9	67.8	61.7	55.5	49.2	42.8	37.3	33.1	29.8	27.6	
-50	734	572	357	189	119	104	96.2	88.8	81.3	74.1	66.7	59.4	52.5	45.3	38.8	33.8	30.1	27.7	
-45	1779	1674	1515	1339	1128	782	319	107	89.5	79.9	71.0	62.4	54.3	46.8	39.5	33.9	29.9	27.9	
-40	2824	2775	2674	2489	2137	1460	541	126	97.6	85.7	75.3	65.3	56.2	48.3	40.2	34.0	29.8	28.0	
-35	3023	2989	2920	2796	2568	2139	1497	863	218	91.8	78.5	67.1	57.0	48.8	41.0	33.9	29.3	27.7	
-30	3222	3204	3167	3104	3000	2818	2453	1600	339	97.9	81.8	68.8	57.9	49.2	41.8	33.9	28.7	27.4	
-25	3296	3281	3251	3199	3116	2975	2707	2103	988	167	83.1	68.9	57.4	48.4	41.3	33.6	28.0	26.5	
-20	3370	3359	3335	3295	3232	3133	2961	2606	1637	235	84.4	68.9	57.0	47.7	40.9	33.4	27.2	25.6	
-15	3396	3389	3370	3335	3280	3194	3047	2759	2005	563	86.2	68.7	56.5	46.9	39.9	32.6	26.9	24.6	
-10	3423	3419	3405	3376	3328	3254	3133	2911	2373	891	88.0	68.4	56.0	46.1	38.9	31.9	26.5	23.6	
-5	3426	3426	3414	3388	3344	3273	3157	2948	2455	1028	95.4	67.1	54.9	45.1	37.8	30.6	25.4	22.3	
0	3429	3433	3424	3401	3360	3292	3181	2985	2537	1165	103	65.8	53.8	44.1	36.7	29.3	24.3	21.0	
5	3429	3430	3419	3395	3353	3283	3170	2968	2495	1081	92.5	64.4	52.8	43.3	36.1	28.7	23.4	19.7	
10	3429	3427	3415	3389	3346	3275	3158	2950	2452	997	82.2	63.0	51.9	42.6	35.5	28.0	22.5	18.4	
15	3415	3409	3393	3362	3311	3231	3097	2841	2165	664	76.4	60.5	50.1	41.3	34.5	27.1	21.7	17.6	
20	3401	3392	3371	3334	3276	3187	3035	2731	1877	330	70.6	58.0	48.2	40.0	33.4	26.3	20.9	16.9	
25	3352	3340	3313	3268	3195	3076	2857	2353	1224	203	65.6	54.6	45.6	38.1	31.8	25.0	19.8	16.0	
30	3304	3287	3256	3202	3114	2966	2678	1975	570	75.6	60.5	51.2	43.1	36.2	30.2	23.7	18.7	15.1	
35	3169	3143	3091	2998	2829	2490	1851	1073	319	66.1	54.7	46.6	39.5	33.5	27.8	22.0	17.3	14.2	
40	3035	2999	2927	2794	2545	2014	1024	171	67.5	56.6	48.8	42.1	36.0	30.8	25.3	20.4	16.0	13.3	
45	2279	2150	1932	1643	1357	1046	543	112	57.5	49.4	43.1	37.5	32.5	27.9	22.7	18.7	14.7	12.4	
50	1524	1301	937	493	169	77.8	61.5	53.8	47.5	42.2	37.4	32.9	29.0	25.0	20.2	17.0	13.4	11.5	
55	788	676	493	270	107	59.7	50.0	44.6	39.9	35.8	32.2	28.8	25.4	21.5	17.9	15.1	12.0	10.5	
60	51.8	50.7	49.1	47.0	44.4	41.5	38.4	35.4	32.3	29.5	26.9	24.6	21.9	18.1	15.7	13.3	10.6	9.62	
65	40.6	39.9	38.8	37.3	35.5	33.4	31.2	28.9	26.7	24.7	22.8	20.7	18.3	15.7	13.7	11.6	9.45	8.82	
70	29.5	29.2	28.5	27.7	26.6	25.3	23.9	22.4	21.1	20.0	18.7	16.9	14.8	13.2	11.7	9.89	8.28	8.02	
75	22.4	22.2	21.8	21.3	20.6	19.8	18.8	17.7	16.6	15.7	14.8	13.5	12.1	11.0	9.77	8.48	7.45	7.42	
80	15.4	15.2	15.0	14.9	14.7	14.3	13.8	13.0	12.2	11.5	10.8	10.1	9.44	8.67	7.83	7.06	6.62	6.82	
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: