

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	989.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	77.3V x 76.2H
	At 50% of Imax	66.3V x 67.4H
	At 90% of Imax	37.4V x 40.4H

Beam Flux	Total	990.9 lumens per klm.
	To 10% of Imax	937.7 lumens per klm.
	To 50% of Imax	827.6 lumens per klm.
	To 90% of Imax	340.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.1 %

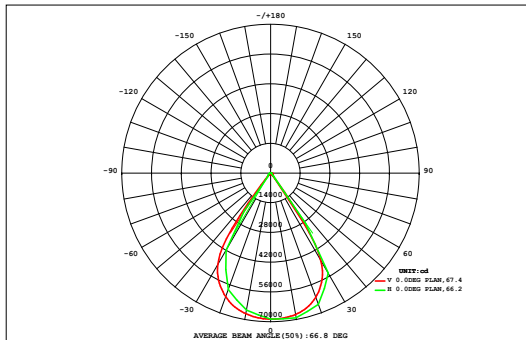
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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:220.3V I:1.888A P:403.5W PF:0.9724 Lamp Flux:69887.7x1 lm		
NAME: FL-400H-60	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:173.18lm/W	
MODEL	FL-400H-60	Imax(cd)	69133
NOMINAL POWER(W)	400	AVAILABILITY(%)	95.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	66436
NOMINAL FLUX(lm)	69887.7	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	69888
TEST VOLTAGE(V)	220	θ @50%(H,V)	67,66DEG

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	0.14	0.67	1.58	2.96	4.81	7.03	8.56	9.20	9.65	9.69	9.33	8.80	7.27	5.00	3.18	1.75	0.77	0.17	90.6	0.00
70	0.16	0.89	2.35	4.56	7.05	9.70	12.2	14.0	15.1	15.2	14.1	12.6	10.0	7.37	4.87	2.64	1.10	0.22	134	0.00
60	0.20	1.24	3.37	6.21	9.65	13.9	18.3	21.5	23.3	23.4	21.7	18.7	14.4	10.4	6.85	3.88	1.60	0.32	199	0.00
50	0.24	1.58	4.12	7.78	13.1	19.4	25.1	31.5	49.9	54.0	33.9	25.9	20.4	14.3	9.02	5.08	2.18	0.45	318	0.00
40	0.29	1.87	4.77	9.62	16.6	24.4	105	476	660	673	535	176	27.0	18.6	11.6	6.28	2.75	0.57	2748	2397
30	0.33	2.10	5.38	11.3	19.4	62.5	688	1599	1926	1941	1632	745	114	22.3	14.0	7.46	3.27	0.69	8794	8604
20	0.37	2.29	5.92	12.5	21.4	303	1476	1878	2050	2062	1909	1503	375	25.6	15.8	8.40	3.68	0.77	11651	11492
10	0.40	2.43	6.25	13.1	22.3	592	1553	1913	2083	2096	1956	1607	648	28.3	16.7	8.97	3.93	0.82	12551	12412
0	0.43	2.51	6.40	13.3	24.6	586	1485	1855	2024	2038	1898	1550	594	27.6	16.6	8.95	3.89	0.80	12134	12002
-10	0.45	2.52	6.39	13.2	22.9	335	1223	1682	1865	1882	1728	1315	304	25.9	16.1	8.46	3.68	0.74	10434	10298
-20	0.50	2.55	6.44	13.2	22.9	78.7	655	1218	1514	1534	1291	647	60.6	25.2	15.3	7.97	3.46	0.70	7097	6918
-30	0.54	2.59	6.41	12.8	22.2	29.2	48.4	452	724	725	439	67.1	27.9	24.0	14.3	7.59	3.27	0.71	2607	2313
-40	0.58	2.61	6.36	12.1	20.4	30.2	32.3	23.1	24.0	24.7	23.4	29.4	31.2	21.3	13.0	7.17	3.05	0.72	306	0.00
-50	0.59	2.49	5.95	10.9	17.2	24.8	31.9	37.1	39.5	39.6	37.7	32.7	25.4	17.9	11.6	6.50	2.79	0.70	345	0.00
-60	0.55	2.20	5.03	8.98	13.6	18.4	23.3	27.0	29.1	29.3	27.3	23.7	18.9	14.1	9.44	5.34	2.44	0.64	259	0.00
-70	0.50	1.79	3.64	6.25	9.31	12.5	15.0	16.6	17.5	17.6	16.9	15.4	12.9	9.72	6.58	3.94	1.97	0.56	169	0.00
-80	0.23	0.74	1.37	2.10	2.94	3.93	4.52	4.76	4.87	4.92	4.87	4.64	3.85	2.89	2.10	1.39	0.77	0.24	51.1	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	6.50	33.1	81.7	161	270	2150	7404	11258	13058	13169	11576	7782	2295	301	187	102	44.6	9.83	69888	---
Φ a	0.00	0.00	0.00	0.00	0.00	1815	7129	11027	12771	12888	11349	7511	1946	0.00	0.00	0.00	0.00	0.00	---	66436

one-half-peak spread: U:42.3,D:24.1 , L:35.6,R:31.9

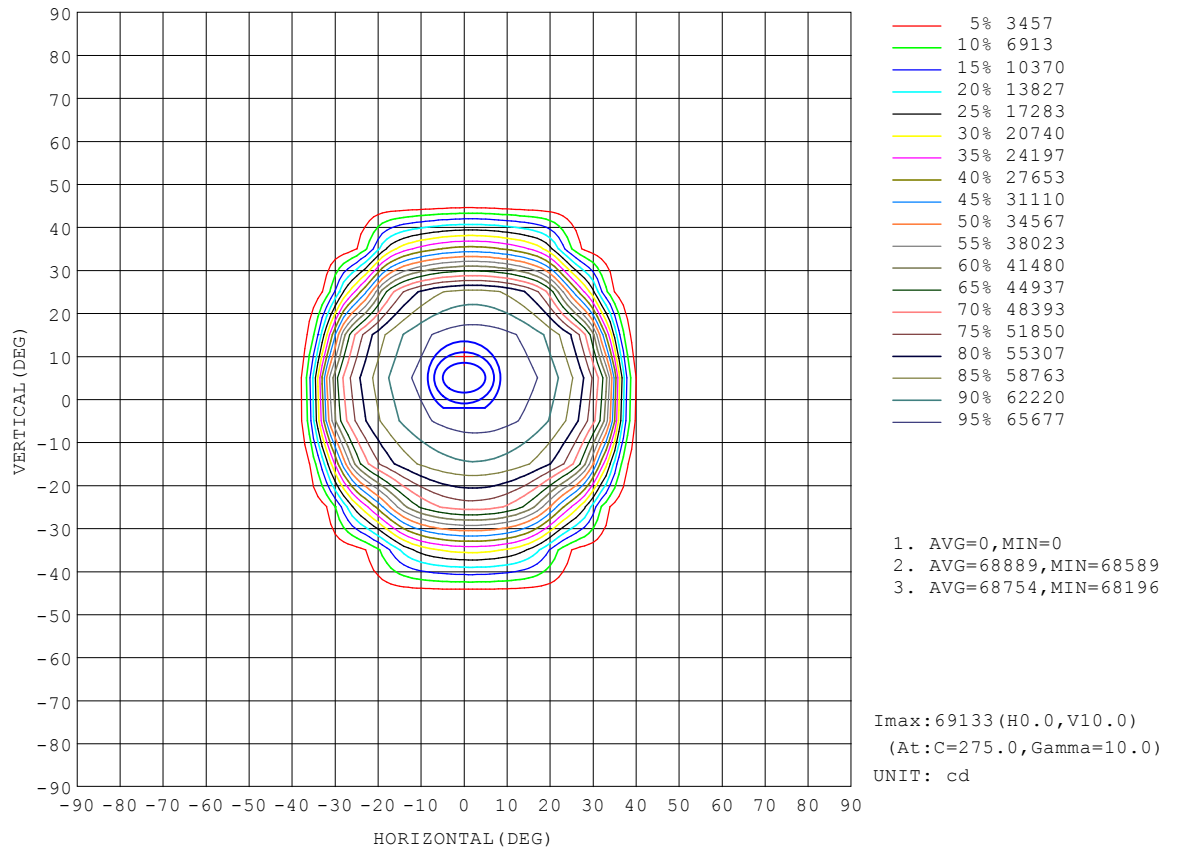
NEMA Beam Type: Type 5

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:220.3V I:1.888A P:403.5W PF:0.9724 Lamp Flux:69887.7x1 lm		
NAME: FL-400H-60	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

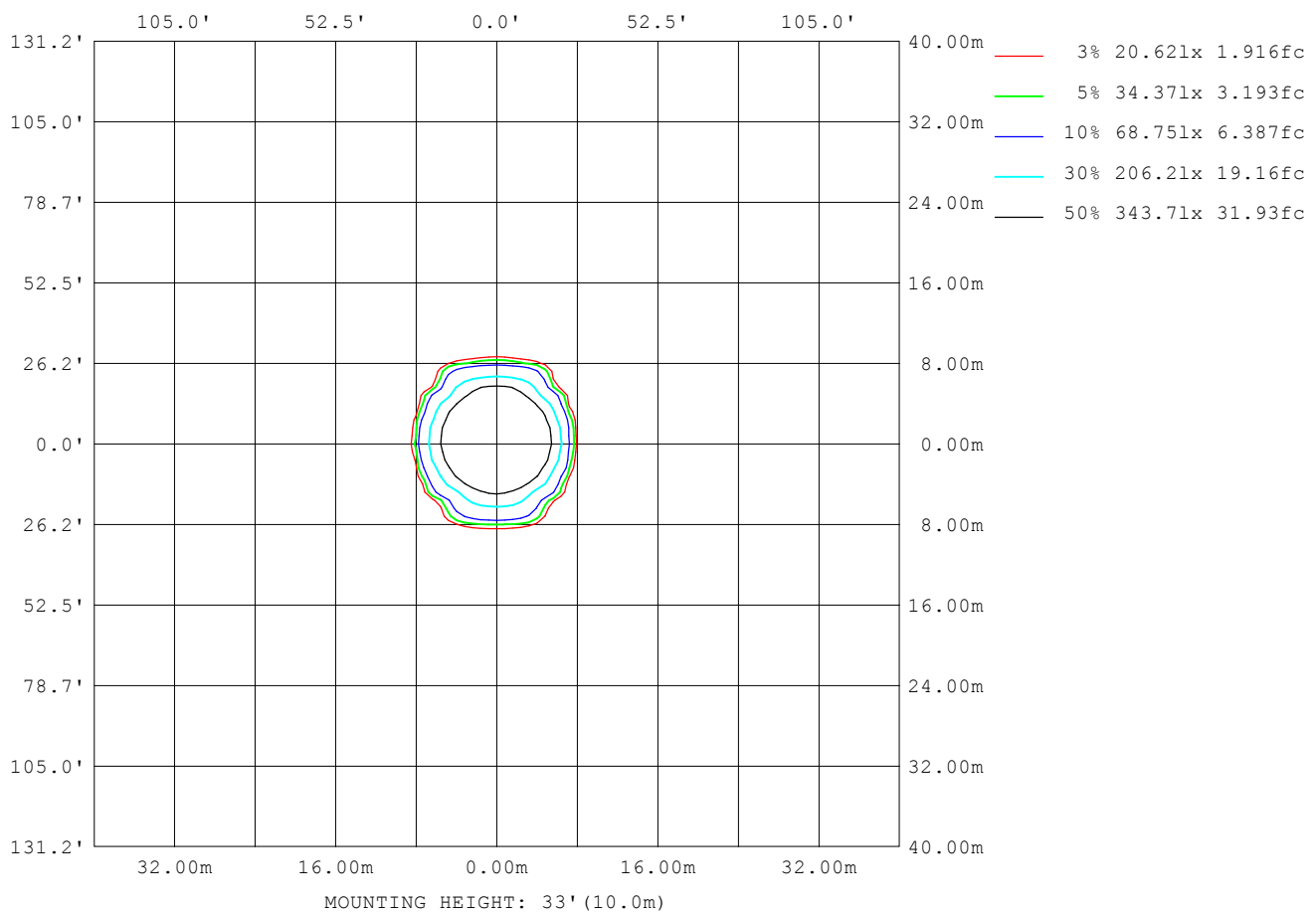


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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

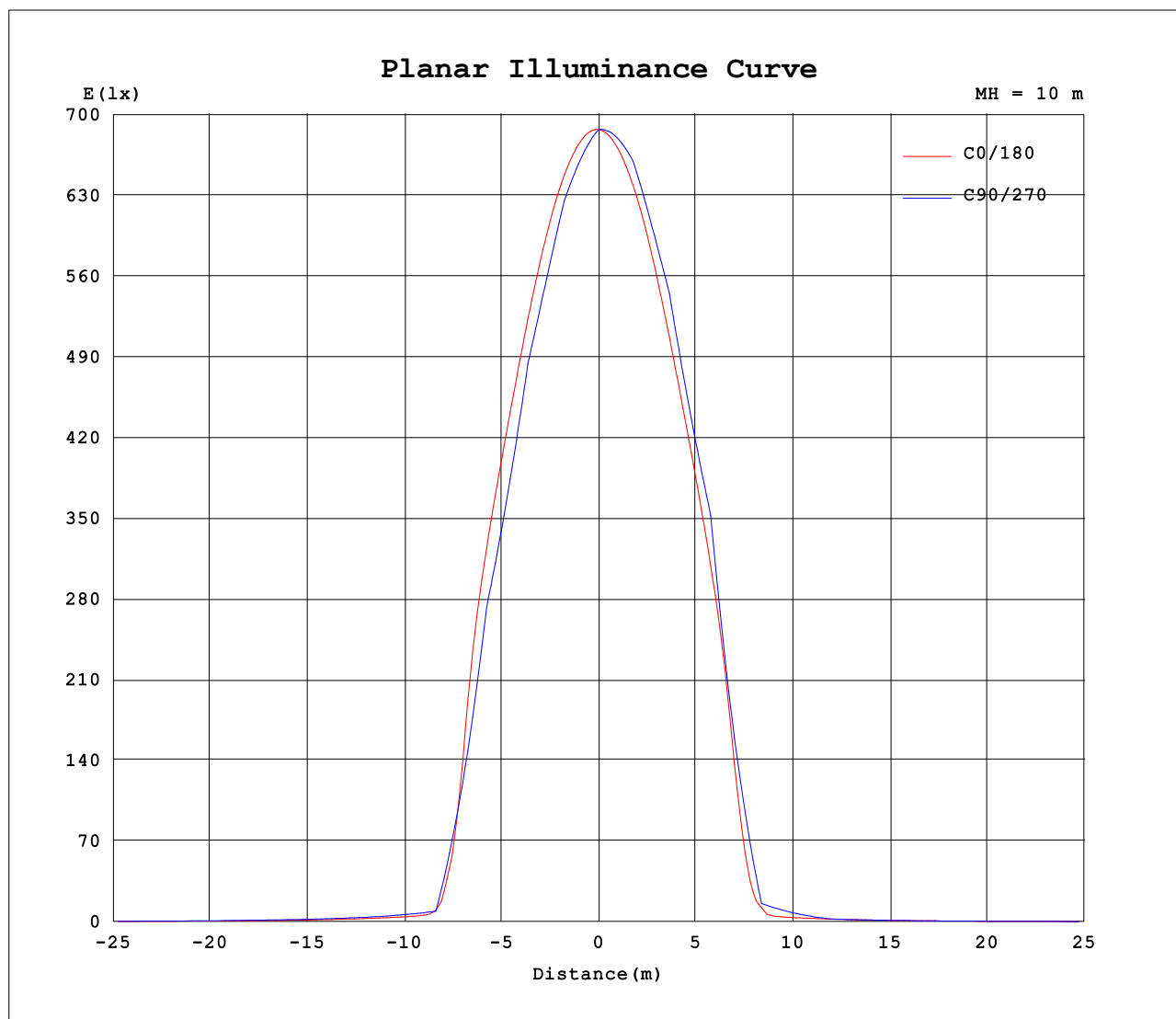
Test:U:220.3V I:1.888A P:403.5W PF:0.9724 Lamp Flux:69887.7x1 lm		
NAME: FL-400H-60	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



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

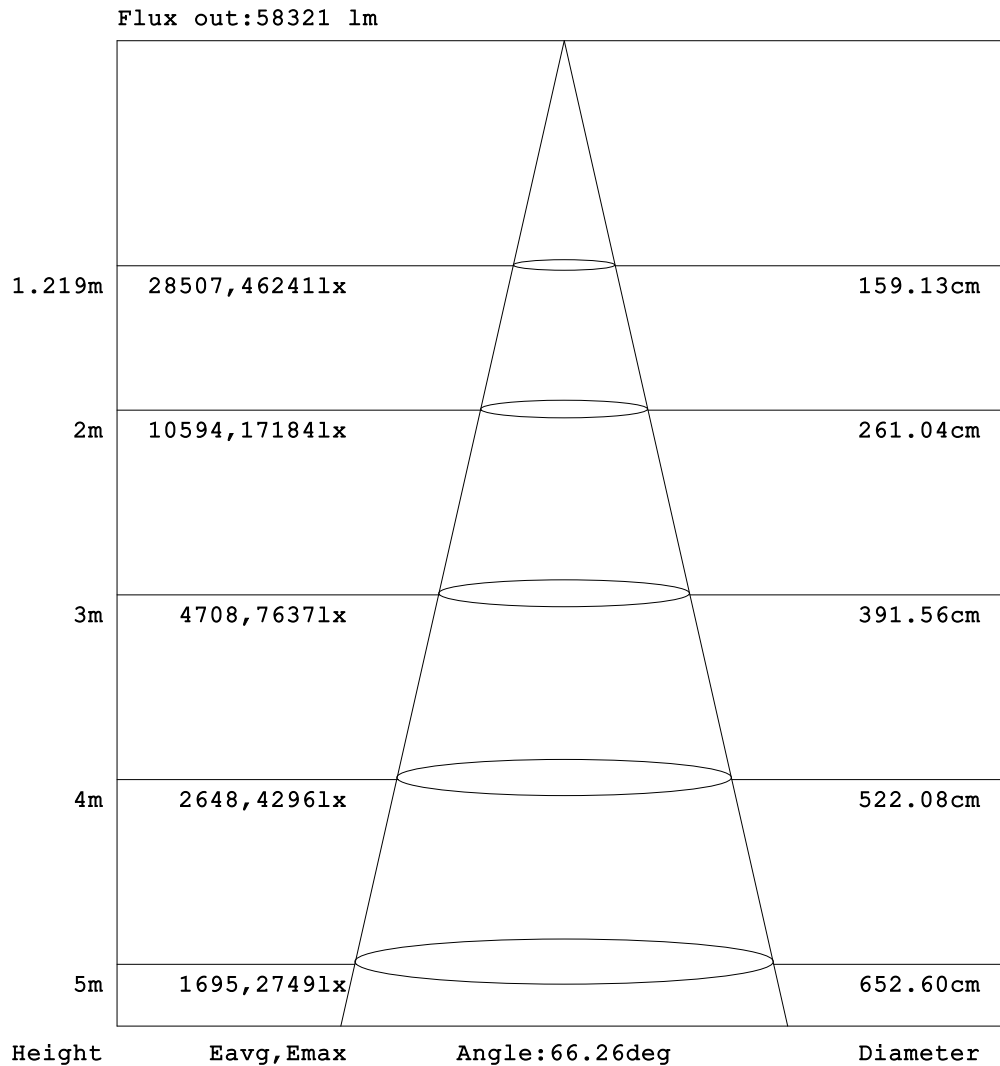


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-16

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:220.3V I:1.888A P:403.5W PF:0.9724 Lamp Flux:69887.7x1 lm		
NAME: FL-400H-60	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:220.3V I:1.888A P:403.5W PF:0.9724 Lamp Flux:69887.7x1 lm		
NAME: FL-400H-60	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	16.6	17.5	18.4	19.6	21.2	23.1	25.3	27.5	29.6	32.1	34.7	37.4	39.3	39.9	40.2	40.4	40.6	40.8	41.0
-75	16.7	17.8	19.5	21.5	24.1	27.2	30.5	34.4	38.1	41.8	45.3	48.9	52.1	54.1	55.4	56.5	57.5	58.1	58.6
-70	17.1	19.5	22.1	25.4	29.5	33.7	38.6	44.4	49.6	54.4	58.8	63.1	66.9	69.4	71.5	73.5	74.9	75.9	76.5
-65	17.1	19.1	22.1	26.0	30.8	36.8	42.6	49.0	55.3	61.5	67.1	72.6	78.0	83.3	87.4	90.8	93.4	95.2	96.2
-60	17.8	21.0	25.1	30.2	36.6	44.3	51.6	58.8	66.1	73.1	79.9	86.4	93.7	101	106	110	114	115	116
-55	18.1	20.0	23.7	28.9	36.1	43.8	51.5	59.6	68.3	77.3	86.6	96.2	105	113	120	125	129	131	133
-50	18.7	21.5	26.1	32.6	41.3	49.4	57.8	67.3	77.5	88.8	101	113	123	132	138	143	147	149	150
-45	19.0	19.8	23.7	30.1	38.7	46.8	55.5	65.8	77.4	90.4	104	117	129	139	147	155	162	170	176
-40	18.6	20.5	25.7	34.6	42.5	50.9	61.2	73.4	87.3	103	118	132	143	153	163	172	184	198	203
-35	18.4	18.4	22.4	30.5	38.6	47.0	57.2	69.5	83.5	99.0	115	131	146	222	634	1374	1867	2103	2196
-30	16.9	18.4	24.4	33.4	41.4	50.6	62.7	76.5	91.8	108	125	142	171	515	1692	3054	3783	4111	4200
-25	16.2	16.0	21.2	30.4	38.0	46.5	58.2	71.7	86.3	102	119	153	687	1919	2880	3893	4544	4871	5008
-20	14.0	16.3	24.1	32.9	41.0	51.1	64.3	78.3	93.0	109	130	347	2178	4100	4908	5357	5626	5780	5836
-15	12.8	13.3	20.4	30.1	37.3	45.9	58.8	72.5	86.7	102	122	562	2469	4275	5147	5626	5920	6097	6185
-10	10.0	14.7	23.9	32.9	39.8	50.7	64.4	78.0	92.1	109	190	1974	4389	5306	5827	6165	6381	6505	6554
-5	8.69	11.4	19.9	29.8	36.7	45.5	59.0	72.5	86.3	101	135	1374	4106	5239	5834	6228	6481	6632	6705
0	6.50	14.6	24.2	32.5	39.5	51.1	64.6	78.0	91.9	109	393	3165	4976	5718	6193	6524	6724	6835	6875
5	5.41	10.5	19.2	28.8	35.7	44.5	58.0	71.5	85.1	100	134	1462	4336	5418	6004	6406	6664	6816	6886
10	5.29	13.2	22.5	30.9	37.8	48.8	62.3	75.7	89.6	106	221	2432	4787	5649	6172	6528	6747	6870	6913
15	3.71	9.44	17.8	27.3	33.9	42.1	54.9	68.1	81.4	95.5	115	666	3089	4916	5695	6165	6465	6647	6733
20	4.50	12.1	20.6	28.8	35.7	45.5	58.1	71.0	84.1	98.0	116	557	3281	4924	5644	6078	6354	6514	6572
25	3.00	8.37	16.1	25.0	31.5	38.9	49.6	61.6	74.2	86.8	100	155	1063	2517	3955	5059	5584	5865	5990
30	3.76	10.7	18.0	26.1	32.8	40.3	50.6	62.2	74.3	86.2	97.9	110	190	1133	3372	4545	5083	5349	5431
35	2.57	7.32	14.2	21.9	28.4	35.0	43.0	52.7	63.4	74.6	85.5	95.8	110	335	1308	2158	2545	2775	2886
40	3.24	9.33	15.7	23.3	29.3	35.5	42.9	51.5	61.6	71.7	81.4	89.9	97.2	105	114	140	218	319	354
45	2.26	6.26	12.1	17.9	24.7	30.5	36.5	43.2	50.8	59.3	68.1	76.5	83.6	90.1	96.4	105	135	186	222
50	2.72	7.70	12.9	18.3	24.7	30.1	35.3	40.7	46.7	53.9	61.7	69.1	75.3	80.4	84.7	88.0	90.3	91.7	92.1
55	2.19	5.26	9.79	14.2	19.5	24.9	29.7	34.4	39.1	44.2	49.8	55.7	61.4	66.5	70.1	73.3	75.6	77.2	77.9
60	2.51	6.37	10.3	14.0	18.7	23.6	27.9	31.9	35.5	38.9	42.6	46.8	52.3	55.5	58.3	60.7	62.4	63.5	63.8
65	2.29	4.36	7.53	10.6	13.8	17.7	21.4	25.3	28.9	32.0	35.0	38.2	42.2	44.9	46.4	48.3	49.6	50.6	51.4
70	2.40	4.93	7.32	9.71	12.1	14.8	18.2	21.7	24.9	27.4	29.9	32.5	35.3	35.2	36.1	37.0	37.7	38.5	39.0
75	2.45	3.50	5.37	7.12	8.86	10.7	12.8	15.2	17.7	20.0	22.4	24.8	27.3	27.9	27.9	28.4	28.8	29.1	29.5
80	2.45	3.59	4.81	5.95	7.03	8.20	9.42	10.8	12.5	14.4	16.9	19.2	20.5	20.3	20.1	20.1	20.1	20.0	20.0
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:220.3V I:1.888A P:403.5W PF:0.9724 Lamp Flux:69887.7x1 lm		
NAME: FL-400H-60	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	41.2	41.4	41.5	41.5	41.4	40.3	38.0	35.4	33.0	30.8	28.8	26.7	24.7	22.9	21.4	20.3	18.8	18.0	
-75	58.7	58.6	58.2	57.4	56.5	55.1	52.3	48.9	45.5	42.0	38.4	34.6	31.2	28.2	25.3	22.9	20.9	18.8	
-70	76.2	75.6	74.3	72.6	70.8	68.0	63.9	59.7	55.3	50.3	44.9	39.6	35.1	31.1	27.1	23.9	21.1	19.2	
-65	96.2	95.2	93.4	90.7	87.3	83.0	77.4	72.1	66.6	60.9	54.7	48.3	42.2	36.4	31.3	26.9	23.5	20.5	
-60	116	114	111	106	101	93.3	86.7	80.1	73.5	66.5	59.4	52.0	44.4	37.5	31.7	27.0	23.4	21.5	
-55	133	131	129	125	119	112	103	94.1	84.7	75.8	67.3	59.3	51.3	43.3	35.9	29.9	25.6	22.6	
-50	149	147	144	139	132	123	113	101	88.6	78.2	68.8	60.0	51.6	43.0	34.9	28.9	25.3	23.7	
-45	174	166	160	154	146	138	127	115	101	87.8	76.1	65.9	56.9	48.3	39.4	31.7	26.4	23.6	
-40	192	180	171	163	154	144	132	118	103	87.7	74.9	64.2	55.2	46.5	37.1	29.4	25.0	23.9	
-35	2174	2028	1687	1009	349	163	144	129	113	97.9	83.5	70.8	60.1	51.4	42.5	33.2	25.8	22.8	
-30	4073	3668	2750	1204	302	161	144	128	112	96.2	81.4	68.3	57.8	49.3	40.2	30.4	23.5	22.1	
-25	4984	4788	4336	3458	2410	1220	238	137	120	105	89.7	75.7	63.2	53.7	45.1	35.0	25.3	20.6	
-20	5786	5629	5338	4819	3711	1167	172	132	115	101	86.5	72.6	60.2	51.3	42.9	31.8	21.7	19.5	
-15	6182	6087	5889	5540	4906	3464	1271	175	123	108	94.2	80.3	67.0	56.2	47.7	37.5	26.4	18.6	
-10	6524	6416	6206	5847	5253	4023	959	140	118	105	90.7	77.1	63.7	54.3	45.7	34.6	22.7	17.1	
-5	6707	6637	6481	6197	5729	4932	2791	294	125	111	97.0	83.5	70.7	58.8	50.2	39.6	28.4	18.1	
0	6852	6757	6565	6221	5684	4722	1771	158	119	106	92.5	79.3	66.8	56.4	47.5	36.0	24.6	17.0	
5	6887	6820	6666	6378	5906	5132	3035	343	125	110	96.9	83.6	71.0	59.1	50.6	39.9	29.1	18.4	
10	6885	6783	6577	6204	5613	4485	1279	141	117	104	90.6	77.5	64.2	54.9	46.4	35.4	24.6	16.6	
15	6730	6638	6445	6097	5500	4219	1631	218	118	105	91.9	79.0	66.3	55.6	47.6	37.7	27.6	17.6	
20	6522	6366	6079	5588	4651	1973	214	120	108	95.4	82.8	70.3	58.4	49.9	42.1	32.2	22.3	15.4	
25	5974	5809	5449	4664	3208	1796	340	118	105	93.6	81.6	69.8	58.6	49.8	42.3	33.4	24.6	15.6	
30	5331	5023	4350	2628	671	141	114	104	93.4	82.3	70.9	60.1	50.9	43.7	36.3	27.8	19.4	13.3	
35	2858	2700	2414	1813	705	159	107	97.4	88.1	78.0	67.6	58.0	49.4	42.6	35.6	27.9	20.5	12.9	
40	288	185	127	112	105	98.3	91.6	83.7	74.9	65.1	56.4	48.7	42.2	35.9	28.7	22.4	15.3	10.6	
45	208	157	116	101	94.9	89.0	82.9	76.0	68.1	60.1	52.7	46.1	40.1	34.4	28.0	22.0	15.9	9.79	
50	91.6	90.1	87.6	84.4	80.2	75.0	69.0	62.1	54.9	48.9	43.6	38.5	33.6	28.1	22.0	17.1	11.5	7.73	
55	77.7	76.7	74.9	72.3	69.2	65.4	59.7	54.5	49.2	44.3	39.8	35.4	30.9	25.8	20.5	16.3	11.6	6.90	
60	63.3	62.1	60.2	57.6	55.9	51.0	46.3	42.6	39.4	36.1	32.6	28.7	24.4	19.4	15.7	11.9	7.93	5.42	
65	51.0	50.2	49.1	47.6	46.2	45.0	40.6	37.4	34.5	31.7	28.5	24.8	21.1	17.4	14.2	11.2	7.93	4.65	
70	38.1	37.6	37.0	36.2	36.3	35.4	32.1	29.8	27.4	24.8	21.5	17.8	15.1	12.7	10.3	7.86	5.30	3.79	
75	29.2	29.0	28.8	28.5	28.5	28.7	26.4	23.9	21.5	19.4	17.1	14.6	12.4	10.6	8.81	7.04	5.18	3.28	
80	20.1	20.2	20.4	20.6	21.1	20.7	18.7	16.1	13.9	12.1	10.7	9.44	8.22	7.02	5.91	4.74	3.46	2.90	
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: