

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1964.8 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	71.9V x 68.8H
	At 50% of Imax	33.1V x 33.0H
	At 90% of Imax	9.1V x 12.4H

Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	743.9 lumens per klm.
	To 50% of Imax	351.0 lumens per klm.
	To 90% of Imax	40.4 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

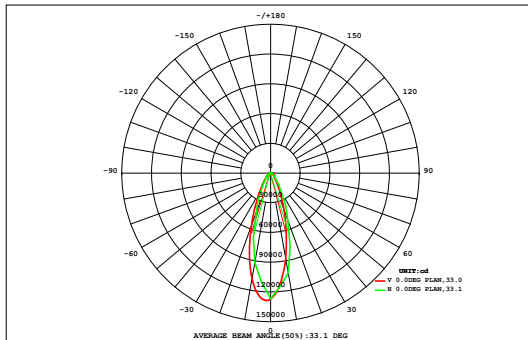
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-17

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:218.6V I:1.894A P:402.4W PF:0.9723 Lamp Flux:65409.9x1 lm		
NAME: FL-400H-30	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:162.54lm/W	
MODEL	FL-400H-30	Imax(cd)	128517
NOMINAL POWER(W)	400	AVAILABILITY(%)	74.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	48701
NOMINAL FLUX(lm)	65409.9	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	65410
TEST VOLTAGE(V)	220	θ @50% (H,V)	33,33DEG

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	0.54	3.65	9.70	17.7	26.5	34.7	40.9	44.3	45.4	45.6	44.9	41.7	35.4	27.2	18.5	10.4	4.11	0.68	452	0.00
80	0.76	5.39	14.0	25.5	37.8	49.6	60.0	67.5	71.2	71.6	68.3	61.0	50.5	38.5	26.0	14.6	5.80	0.91	669	0.00
70	1.04	7.24	18.9	33.8	50.8	69.4	87.4	102	111	112	104	89.0	70.8	51.9	34.6	19.4	7.72	1.22	972	0.00
60	1.29	8.86	23.0	41.4	65.2	94.2	129	164	190	192	169	133	97.1	67.0	42.8	23.8	9.53	1.51	1452	0.00
50	1.52	10.3	26.4	49.2	81.8	130	206	308	400	410	326	219	137	84.7	51.0	27.6	11.1	1.78	2480	773
40	1.68	11.4	29.1	56.6	101	184	357	650	957	988	705	389	197	105	59.2	31.0	12.4	2.01	4836	3726
30	1.82	12.2	31.4	62.9	120	255	600	1290	2063	2131	1395	651	272	126	65.9	33.5	13.3	2.15	9126	8253
20	1.89	12.6	32.6	66.4	134	312	830	1966	3268	3321	2043	868	323	138	69.7	35.0	13.9	2.24	13436	12632
10	1.88	12.7	32.9	66.9	135	319	853	2016	3289	3252	1951	819	308	135	69.2	34.8	13.8	2.20	13311	12490
0	1.69	12.2	31.8	63.5	122	260	615	1302	1989	1921	1198	563	248	121	65.3	33.5	13.4	2.01	8563	7639
-10	1.51	11.2	29.9	58.2	104	190	359	611	808	763	532	311	176	101	58.8	31.1	12.3	1.69	4159	2986
-20	1.33	9.81	27.1	51.5	85.8	135	204	279	327	312	253	188	129	84.4	52.1	28.4	10.8	1.43	2180	202
-30	1.22	8.47	23.8	44.6	70.6	102	135	164	177	173	156	129	98.4	69.8	45.0	24.8	8.91	1.27	1434	0.00
-40	1.08	6.90	19.6	36.8	56.3	77.1	96.4	111	118	117	109	95.0	76.5	56.4	37.4	20.3	7.13	1.15	1041	0.00
-50	0.93	5.34	14.8	27.9	42.1	55.6	66.9	74.8	78.5	78.4	74.6	66.8	55.5	42.0	27.9	14.7	5.29	0.96	733	0.00
-60	0.73	3.60	9.43	17.7	26.8	34.6	40.7	44.2	45.5	45.5	44.3	40.9	34.7	26.7	17.5	9.36	3.54	0.75	446	0.00
-70	0.33	1.35	3.12	5.47	7.71	9.77	11.0	11.3	11.2	11.4	11.5	10.8	8.93	6.56	4.21	2.11	0.89	0.25	118	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
HORIZONTAL (DEG)																				
Φ t	21.3	143	378	726	1267	2312	4691	9205	13948	13943	9185	4674	2317	1282	745	395	154	24.2	65410	---
Φ a	0.00	0.00	0.00	0.00	0.00	572	3202	7857	12706	12692	7923	3204	545	0.00	0.00	0.00	0.00	0.00	0.00	48701

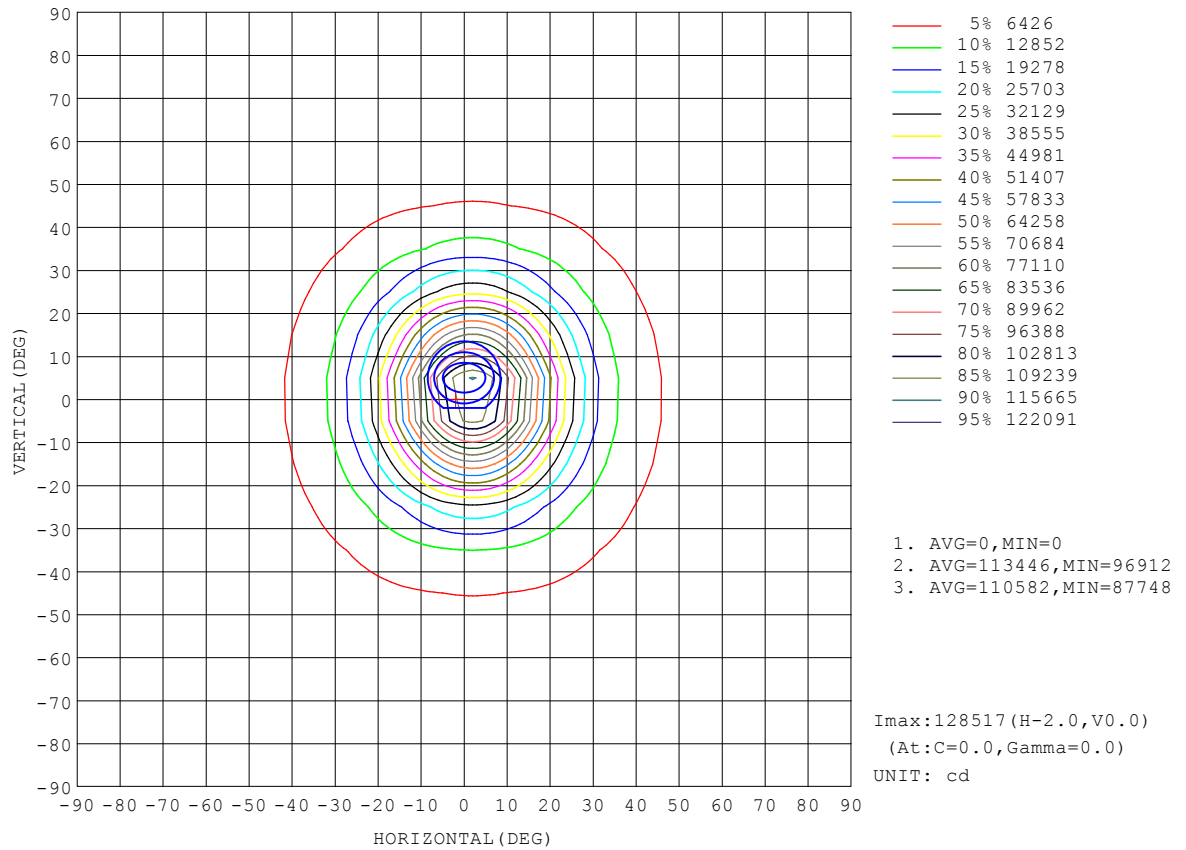
one-half-peak spread: U:15.8,D:17.5 , L:16.7,R:16.7 Beam Type: Type 4 x 5 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-17

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:218.6V I:1.894A P:402.4W PF:0.9723 Lamp Flux:65409.9x1 lm		
NAME: FL-400H-30	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

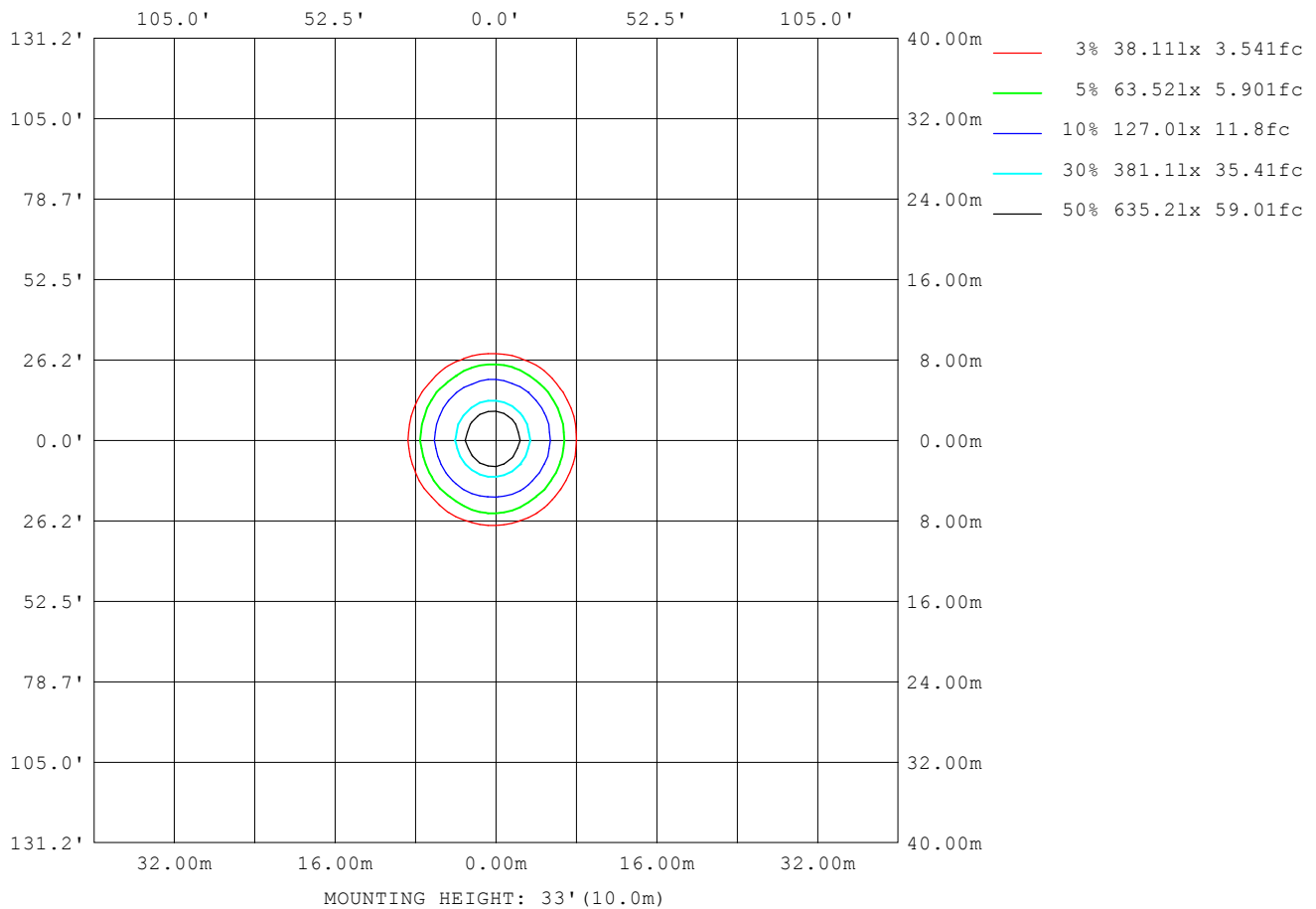


H(β) Range:-90 - 90DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-17

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

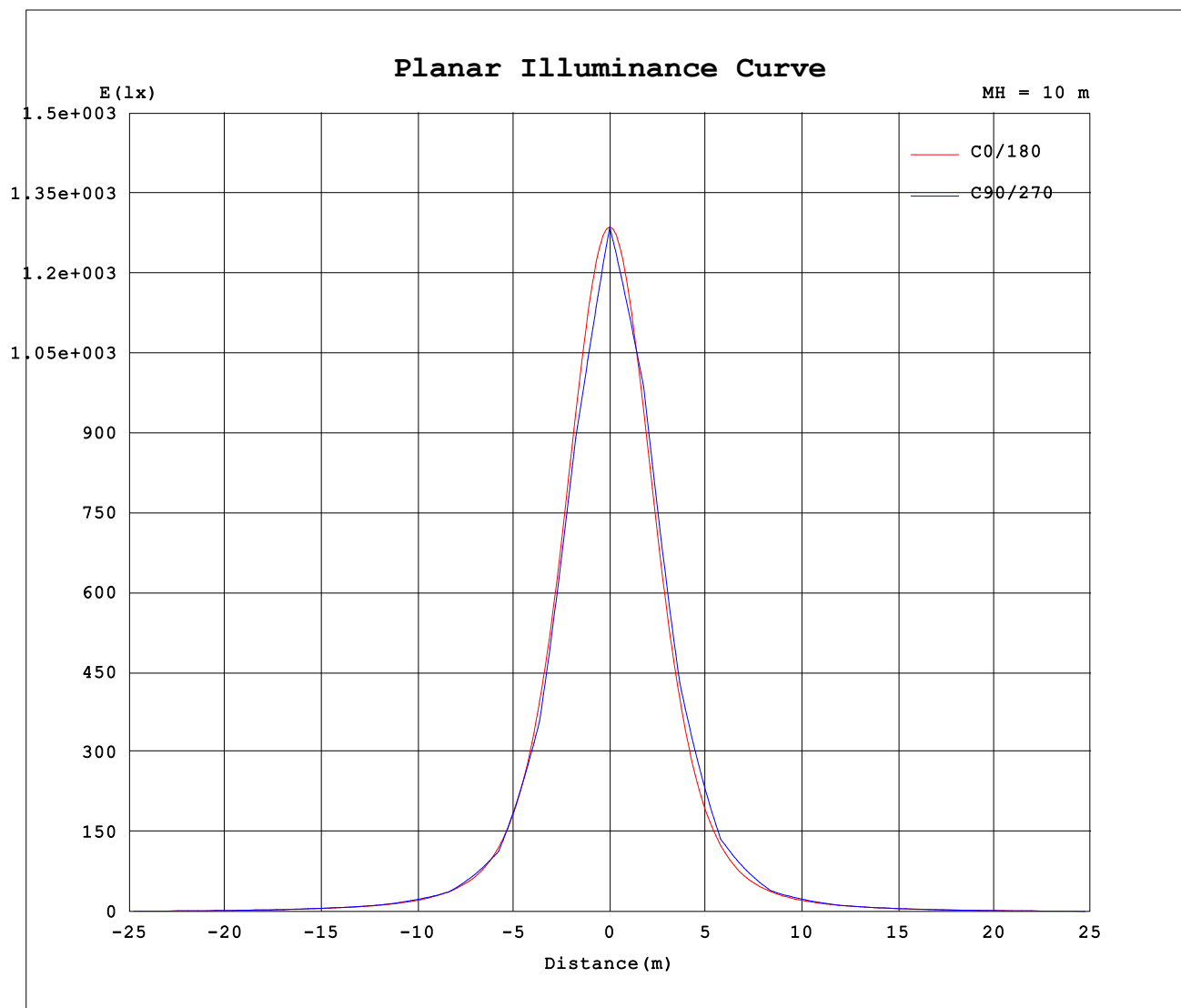
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NAME: FL-400H-30	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-17

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

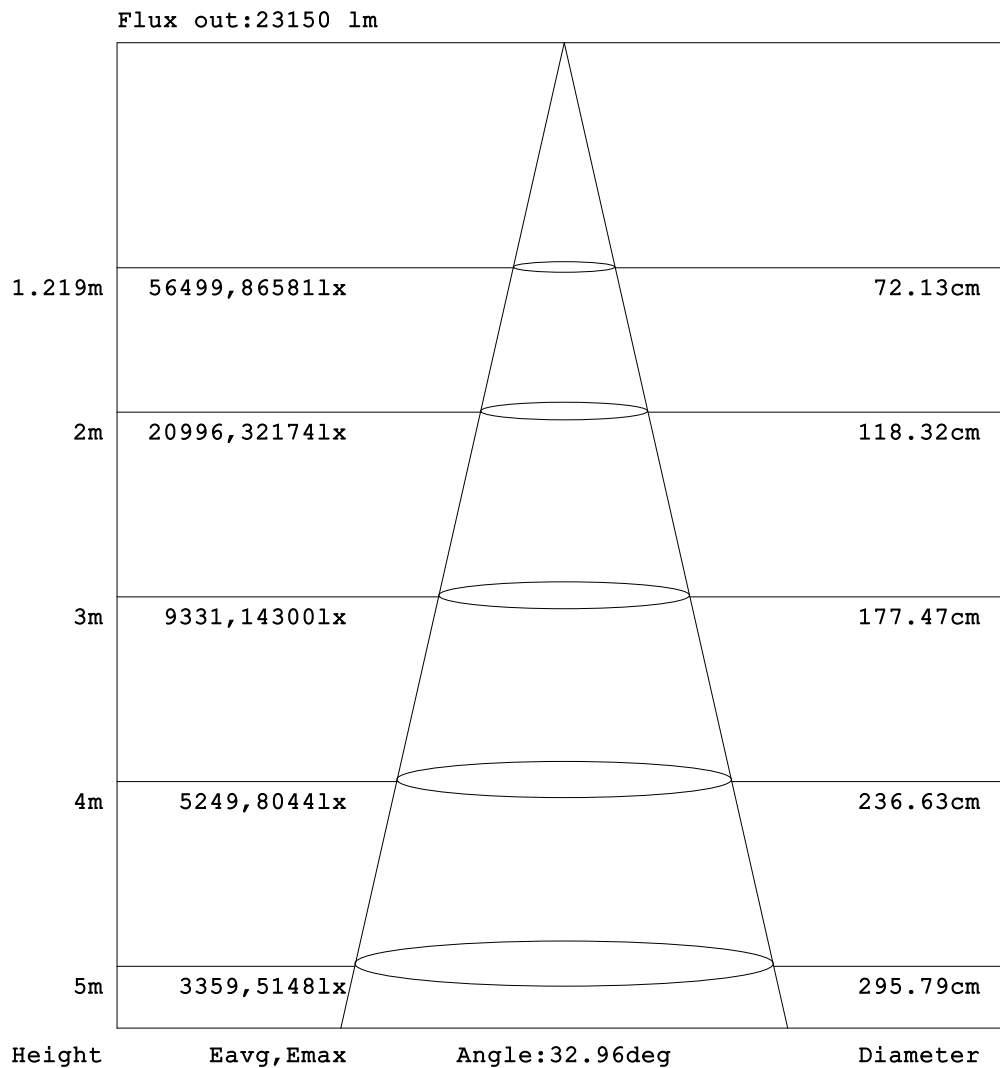


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Bob Chen
Test Date:2019-12-17

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:218.6V I:1.894A P:402.4W PF:0.9723 Lamp Flux:65409.9x1 lm		
NAME: FL-400H-30	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:2019-12-17

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:218.6V I:1.894A P:402.4W PF:0.9723 Lamp Flux:65409.9x1 lm		
NAME: FL-400H-30	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

Table--1

UNIT: ×100cd

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	2.00	2.30	2.77	3.46	4.34	5.34	6.41	7.30	8.05	8.73	9.29	9.74	10.1	10.2	10.2	10.2	10.1	9.96	9.97
-75	1.97	2.19	2.78	3.68	4.98	6.44	7.93	9.37	10.7	11.9	12.8	13.5	14.2	14.7	15.0	15.1	15.2	15.2	15.2
-70	2.20	2.99	4.17	5.93	7.94	9.93	11.8	13.6	15.2	16.5	17.5	18.3	19.0	19.6	19.9	20.2	20.3	20.4	20.4
-65	2.01	2.48	3.58	5.34	7.66	10.1	12.6	14.9	16.9	18.7	20.3	21.7	22.9	24.0	24.9	25.5	26.0	26.3	26.5
-60	2.40	3.65	5.72	8.43	11.3	14.4	17.2	19.4	21.5	23.5	25.3	27.0	28.5	29.8	30.9	31.7	32.2	32.6	32.6
-55	1.97	2.64	4.31	6.94	10.1	13.6	16.9	19.7	22.3	24.9	27.4	29.8	32.2	34.4	36.4	38.1	39.5	40.4	40.9
-50	2.40	4.13	6.98	10.5	14.5	18.1	21.2	24.3	27.3	30.3	33.4	36.5	39.5	42.3	44.7	46.7	48.2	49.2	49.3
-45	1.80	2.67	4.96	8.43	12.5	16.7	20.3	23.7	27.3	30.9	34.7	38.8	43.2	47.9	52.7	57.3	61.2	64.2	65.8
-40	2.33	4.64	8.36	12.8	17.4	21.1	24.9	28.9	33.0	37.5	42.5	48.1	54.4	61.2	68.0	74.3	79.3	82.0	82.3
-35	1.54	2.62	5.58	9.90	14.8	19.1	23.1	27.3	31.8	36.8	42.7	49.8	58.8	69.7	82.3	96.1	110	122	128
-30	2.19	5.05	9.64	14.8	19.3	23.5	27.9	32.8	38.5	45.4	54.1	65.5	80.3	98.1	119	141	161	173	175
-25	1.23	2.57	6.42	11.5	16.7	21.0	25.4	30.4	36.0	43.0	52.3	65.3	83.8	110	146	189	237	279	302
-20	2.08	5.91	11.3	16.7	21.1	25.6	30.7	36.8	44.4	55.1	70.6	93.6	128	178	240	313	382	425	429
-15	0.92	2.58	7.52	12.8	18.0	22.3	27.1	32.9	39.7	49.0	62.8	84.1	118	172	254	361	489	607	675
-10	1.93	6.91	12.2	17.5	21.8	26.7	32.5	39.6	49.2	63.9	87.4	125	190	292	435	612	791	910	922
-5	0.64	2.94	8.36	13.5	18.5	22.9	28.1	34.4	42.0	53.1	70.6	99.4	148	231	362	545	766	974	1096
0	2.28	7.64	12.6	17.8	22.2	27.3	33.5	41.0	51.8	68.9	97.4	147	233	371	574	829	1083	1254	1270
5	0.19	3.28	8.49	13.5	18.4	22.9	28.0	34.4	42.1	53.5	71.4	101	152	239	376	568	800	1018	1146
10	2.35	7.32	12.2	17.3	21.7	26.6	32.5	39.7	49.7	65.3	90.6	132	204	318	478	677	876	1008	1022
15	0.00	3.20	8.17	13.0	17.9	22.1	27.0	32.8	39.8	49.6	64.4	87.9	126	188	282	406	554	691	769
20	2.26	7.03	11.7	16.7	20.8	25.3	30.6	36.8	44.9	56.5	74.0	101	143	203	280	371	457	511	515
25	0.00	2.96	7.63	12.1	16.8	20.7	25.0	30.0	35.8	43.1	53.3	67.9	89.6	122	166	219	280	334	363
30	1.98	6.36	10.7	15.2	19.1	23.0	27.3	32.3	38.1	45.4	55.0	68.3	86.1	109	135	164	191	208	210
35	0.00	2.65	6.89	11.0	15.3	18.9	22.4	26.4	30.9	35.9	42.0	49.8	60.0	73.0	88.6	106	125	141	149
40	1.81	5.70	9.65	13.6	17.3	20.4	23.9	27.6	31.6	36.1	41.1	47.2	54.2	62.0	70.2	78.0	84.3	87.6	87.8
45	0.00	2.30	5.96	9.58	13.1	16.6	19.5	22.5	25.7	29.2	32.8	36.8	41.4	46.4	51.7	57.1	61.8	65.4	67.1
50	1.51	4.69	8.11	11.2	14.6	17.4	19.9	22.6	25.3	28.1	30.9	33.7	36.6	39.3	41.9	43.9	45.5	46.3	46.4
55	0.18	1.91	4.82	7.86	10.7	13.6	16.2	18.5	20.6	22.9	25.1	27.3	29.5	31.6	33.5	35.1	36.5	37.4	37.8
60	1.28	3.71	6.43	9.01	11.4	13.9	16.1	17.8	19.6	21.3	22.9	24.4	25.7	26.9	27.8	28.5	29.0	29.2	29.2
65	0.37	1.51	3.60	5.87	8.06	10.1	12.2	13.9	15.6	17.1	18.4	19.6	20.7	21.7	22.5	23.1	23.5	23.7	23.8
70	1.00	2.61	4.40	6.29	8.05	9.61	11.1	12.7	14.0	15.0	15.8	16.6	17.2	17.7	18.1	18.3	18.4	18.4	18.4
75	0.54	1.08	2.33	3.70	5.10	6.45	7.69	8.88	10.0	11.0	11.7	12.4	13.0	13.4	13.7	13.8	13.9	13.8	13.8
80	0.78	1.53	2.44	3.37	4.32	5.29	6.14	6.91	7.57	8.18	8.75	9.24	9.51	9.55	9.52	9.45	9.31	9.20	9.20
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
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Temperature:25.3DEG
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

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NAME: FL-400H-30	TYPE:LED	WEIGHT:6.5
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: LUXSUN	SUR.:	Shielding Angle:

Table--2

UNIT: ×100cd

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	10.1	10.2	10.3	10.4	10.3	9.97	9.54	9.01	8.33	7.59	6.76	5.78	4.80	3.89	3.14	2.59	2.15	2.00	
-75	15.2	15.3	15.3	15.3	15.1	14.8	14.3	13.6	12.8	11.8	10.6	9.34	7.95	6.46	5.02	3.79	2.94	2.27	
-70	20.4	20.4	20.2	20.0	19.5	18.8	18.0	17.0	15.8	14.2	12.5	10.7	8.71	6.71	4.88	3.57	2.63	2.15	
-65	26.5	26.4	26.1	25.7	25.0	24.1	23.0	21.7	20.3	18.7	16.8	14.8	12.5	10.0	7.54	5.34	3.73	2.60	
-60	32.4	32.0	31.3	30.4	29.2	27.7	26.0	24.2	22.3	20.2	17.9	15.3	12.3	9.39	6.59	4.43	3.00	2.30	
-55	40.9	40.3	39.4	38.0	36.3	34.3	32.1	29.8	27.3	24.9	22.4	19.8	16.9	13.6	10.2	6.86	4.45	2.83	
-50	48.5	47.2	45.4	43.0	40.4	37.5	34.4	31.4	28.5	25.6	22.7	19.7	16.3	12.3	8.37	5.27	3.27	2.25	
-45	65.7	63.8	60.6	56.5	51.9	47.1	42.5	38.2	34.3	30.6	27.2	23.8	20.6	16.9	12.7	8.45	4.96	2.88	
-40	80.1	75.5	69.3	62.5	55.8	49.4	43.6	38.6	34.2	30.1	26.3	22.8	19.2	14.8	10.2	5.77	3.21	2.07	
-35	128	120	108	93.7	80.1	67.9	57.3	48.7	41.9	36.3	31.5	27.2	23.3	19.6	15.1	10.2	5.51	2.78	
-30	165	146	124	103	84.6	69.2	57.0	47.6	40.5	34.8	29.8	25.4	21.5	17.4	12.2	6.92	3.17	1.80	
-25	299	271	227	179	137	104	79.9	62.9	50.8	42.2	35.7	30.3	25.6	21.5	17.2	12.0	6.51	2.69	
-20	393	327	253	186	134	99.0	74.7	58.1	46.8	39.0	32.9	27.6	23.0	18.9	13.8	8.27	3.20	1.63	
-15	668	588	464	339	235	160	111	79.9	60.5	47.9	39.4	33.0	27.5	22.8	18.5	13.3	7.79	2.75	
-10	824	654	472	320	211	139	95.2	69.3	53.1	42.8	35.6	29.4	24.4	19.9	14.9	9.60	3.71	1.48	
-5	1082	936	719	503	330	211	136	92.7	67.3	51.7	41.7	34.7	28.6	23.6	19.1	13.8	8.60	3.04	
0	1122	875	614	401	250	156	104	73.6	55.4	44.0	36.5	30.0	24.7	20.1	14.9	9.76	4.32	1.34	
5	1131	978	750	523	342	217	139	94.0	67.8	51.9	41.8	34.8	28.6	23.6	19.1	13.8	8.71	3.36	
10	912	721	518	347	226	146	98.4	70.6	53.6	42.9	35.8	29.5	24.4	19.9	14.8	9.73	4.48	1.02	
15	759	666	523	378	258	173	117	82.5	61.5	48.2	39.5	33.1	27.4	22.7	18.4	13.3	8.40	3.34	
20	468	386	294	212	149	106	77.8	59.4	47.3	39.0	32.8	27.4	22.8	18.7	13.9	9.09	4.15	1.10	
25	359	323	266	206	153	112	83.9	64.5	51.2	42.1	35.4	30.0	25.2	21.1	17.1	12.4	7.78	3.07	
30	196	170	141	114	90.4	71.7	57.7	47.6	40.0	34.2	29.2	24.8	21.0	17.2	12.7	8.34	3.79	0.89	
35	148	138	121	102	85.0	70.0	57.7	48.2	41.0	35.3	30.5	26.3	22.5	19.0	15.2	11.1	6.90	2.66	
40	84.8	78.8	71.2	63.0	55.3	48.2	42.1	37.0	32.6	28.6	24.9	21.5	18.4	14.9	11.1	7.15	3.14	0.82	
45	66.9	64.6	60.7	55.7	50.4	45.2	40.4	36.0	32.2	28.7	25.4	22.3	19.4	16.4	12.9	9.48	5.80	2.17	
50	45.6	44.3	42.3	39.9	37.3	34.4	31.6	28.8	26.1	23.4	20.8	18.3	15.7	12.4	9.30	5.95	2.57	0.63	
55	37.8	37.2	36.2	34.9	33.2	31.3	29.2	27.0	24.8	22.6	20.4	18.2	15.9	13.3	10.5	7.65	4.61	1.71	
60	29.0	28.7	28.0	27.2	26.1	24.7	23.3	21.7	20.0	18.2	16.5	14.5	12.0	9.70	7.16	4.50	1.92	0.65	
65	23.8	23.7	23.5	23.0	22.4	21.6	20.6	19.5	18.2	16.9	15.4	13.7	11.9	9.87	7.86	5.66	3.38	1.29	
70	18.5	18.4	18.3	18.0	17.5	16.9	16.1	15.3	14.3	13.1	11.6	10.1	8.57	6.83	5.02	3.16	1.41	0.65	
75	13.8	13.9	14.0	13.9	13.8	13.5	13.0	12.4	11.7	10.9	9.88	8.74	7.58	6.32	4.98	3.57	2.16	0.97	
80	9.34	9.50	9.61	9.64	9.61	9.38	8.92	8.35	7.75	7.09	6.34	5.54	4.59	3.65	2.68	1.73	0.93	0.69	
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:2019-12-17

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: