

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2173.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	67.4V x 65.5H
	At 50% of Imax	32.7V x 32.6H
	At 90% of Imax	8.8V x 12.2H

Beam Flux	Total	999.4 lumens per klm.
	To 10% of Imax	770.9 lumens per klm.
	To 50% of Imax	374.8 lumens per klm.
	To 90% of Imax	42.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

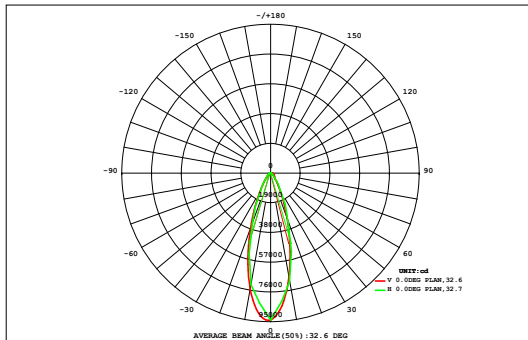
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:1.384A P:301.0W PF:0.9861 Lamp Flux:43278.2x1 lm		
NAME: FL-5050-300	TYPE:LED	WEIGHT:10KG
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:143.79lm/W	
MODEL	FL-5050-300-30	Imax(cd)	94066
NOMINAL POWER(W)	300	AVAILABILITY(%)	77.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	33515
NOMINAL FLUX(lm)	43278.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	43278
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.27	1.66	4.24	7.61	11.3	14.8	17.6	19.2	19.7	19.7	19.2	17.6	14.8	11.3	7.66	4.27	1.69	0.29	193	0.00
70	0.37	2.42	6.20	11.4	17.1	22.8	27.8	31.5	33.2	33.3	31.6	27.9	22.9	17.2	11.4	6.31	2.51	0.40	306	0.00
60	0.49	3.22	8.51	15.5	23.7	33.0	42.0	49.4	53.7	53.9	49.8	42.4	33.4	24.0	15.7	8.64	3.38	0.55	461	0.00
50	0.60	3.96	10.5	19.3	31.1	45.9	63.8	82.8	96.5	97.1	84.4	65.4	47.0	31.9	19.9	10.8	4.24	0.70	716	0.00
40	0.69	4.63	12.1	23.2	39.9	65.9	109	168	222	226	175	114	68.8	41.4	24.2	12.8	5.05	0.84	1313	202
30	0.76	5.13	13.5	27.0	50.5	99.0	206	395	588	599	415	219	105	53.3	28.8	14.6	5.77	0.97	2827	2031
20	0.82	5.52	14.6	30.4	62.2	145	374	853	1379	1406	895	398	154	66.0	32.6	16.0	6.26	1.05	5842	5258
10	0.84	5.70	15.2	32.3	70.5	185	548	1374	2321	2350	1416	573	195	75.0	35.1	16.9	6.57	1.10	9223	8698
0	0.82	5.76	15.4	32.7	71.8	193	583	1471	2471	2464	1459	577	194	74.5	35.0	16.9	6.56	1.07	9672	9155
-10	0.69	5.49	14.8	31.0	64.3	156	418	975	1569	1549	946	407	155	66.4	33.0	16.3	6.36	0.96	6415	5855
-20	0.60	4.94	14.0	28.3	53.6	108	232	442	627	609	407	212	104	53.9	29.5	15.0	5.79	0.75	2948	2199
-30	0.57	4.28	12.6	25.1	43.5	72.7	118	175	218	212	165	113	71.3	43.9	26.0	13.7	4.94	0.65	1320	115
-40	0.59	3.78	11.2	22.0	36.0	53.4	73.7	92.3	102	99.8	88.5	71.1	52.5	36.0	22.5	11.9	3.99	0.62	782	0.00
-50	0.58	3.24	9.41	18.3	29.1	40.7	51.9	60.7	65.2	64.9	60.1	51.6	40.8	29.4	18.9	9.79	3.28	0.61	559	0.00
-60	0.53	2.66	7.24	14.1	21.9	29.6	36.4	41.2	43.6	43.5	41.2	36.3	29.6	22.0	14.2	7.18	2.63	0.55	394	0.00
-70	0.43	1.91	4.79	9.20	14.1	18.5	22.1	24.4	25.4	25.4	24.5	22.1	18.5	14.1	9.17	4.77	1.92	0.45	242	0.00
-80	0.18	0.71	1.64	2.87	4.17	5.42	6.17	6.50	6.52	6.55	6.46	6.04	5.13	3.83	2.52	1.35	0.60	0.17	66.8	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	9.85	65.0	176	350	645	1289	2929	6261	9841	9859	6284	2955	1312	664	366	187	71.5	11.7	43278	---
Φ a	0.00	0.00	0.00	0.00	0.00	167	1998	5437	9097	9126	5461	2058	172	0.00	0.00	0.00	0.00	0.00	---	33515

one-half-peak spread: U:16.7,D:16.2 , L:16.4,R:16.4

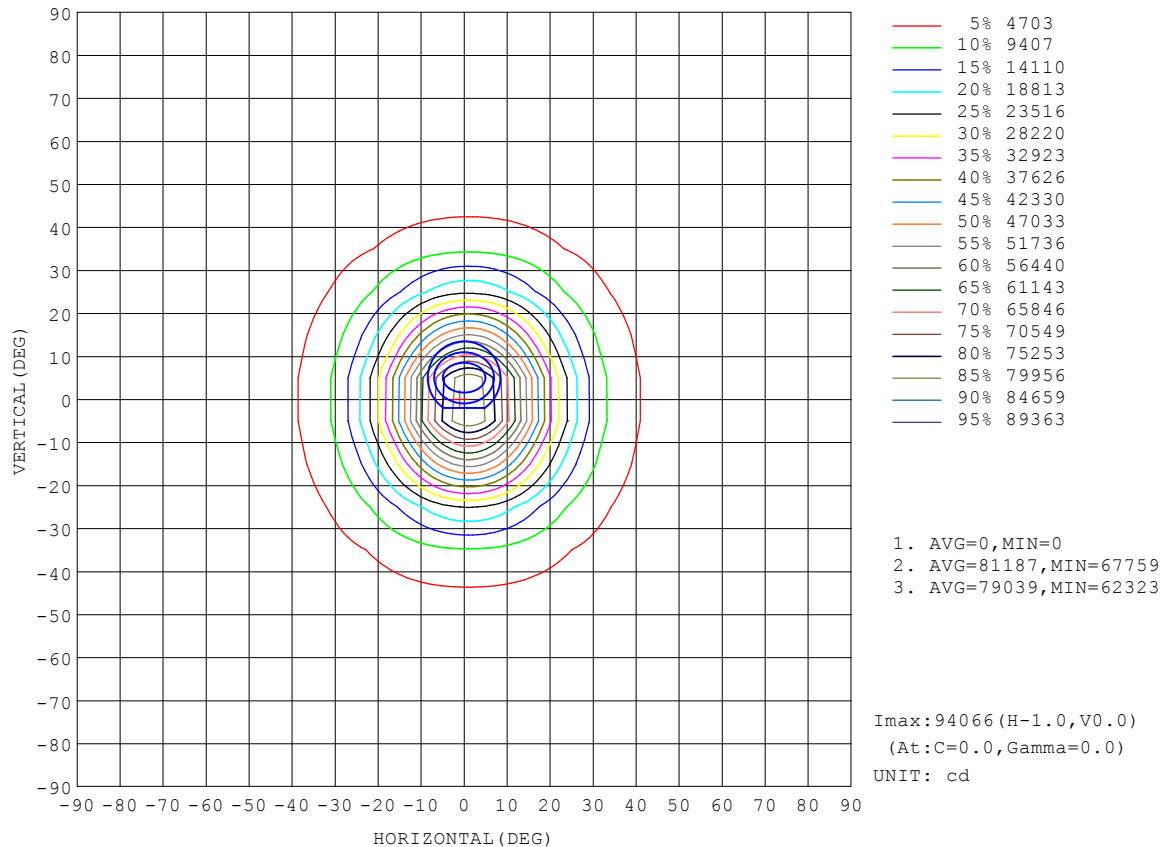
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.5V I:1.384A P:301.0W PF:0.9861 Lamp Flux:43278.2x1 lm		
NAME: FL-5050-300	TYPE:LED	WEIGHT:10KG
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

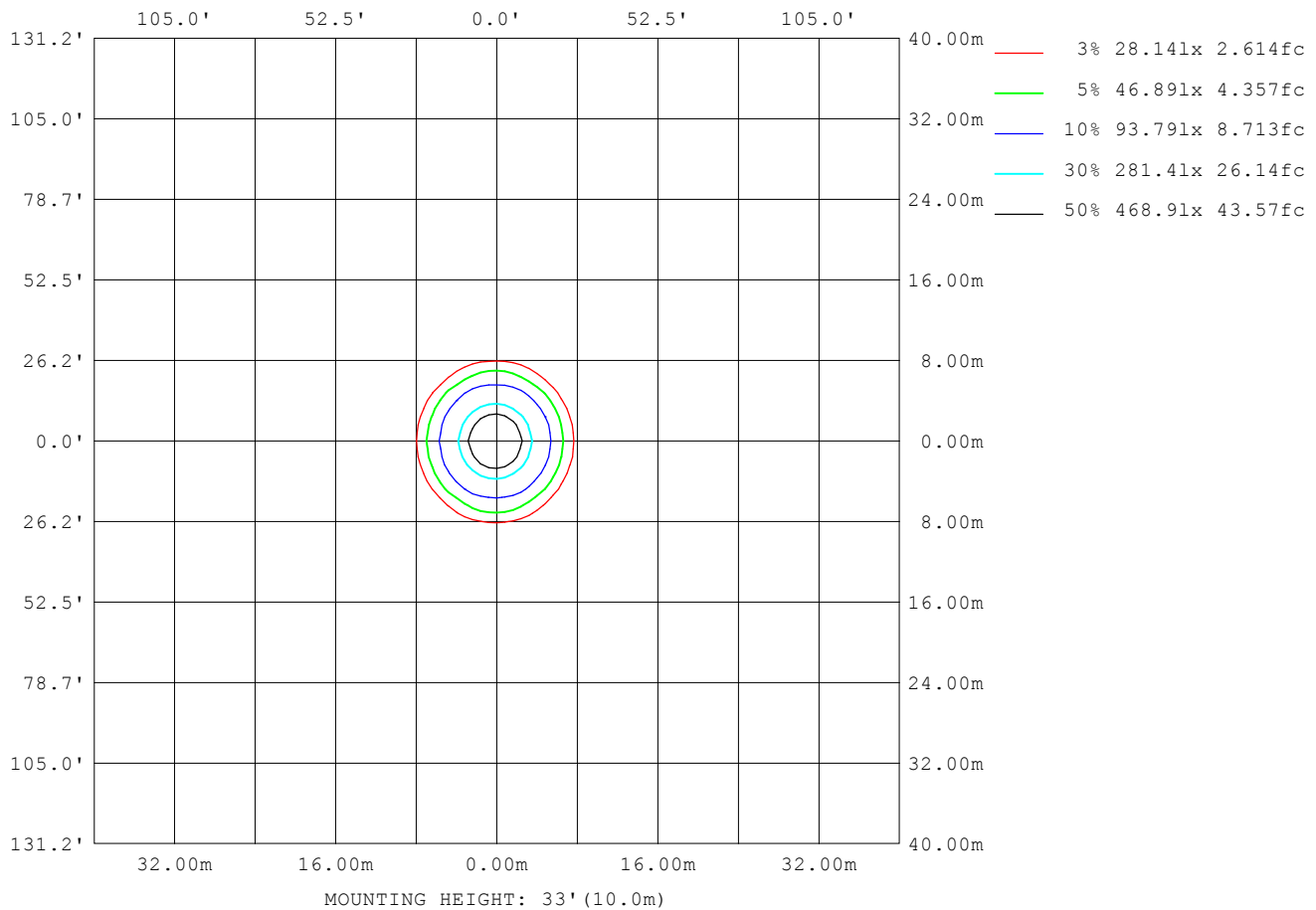


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

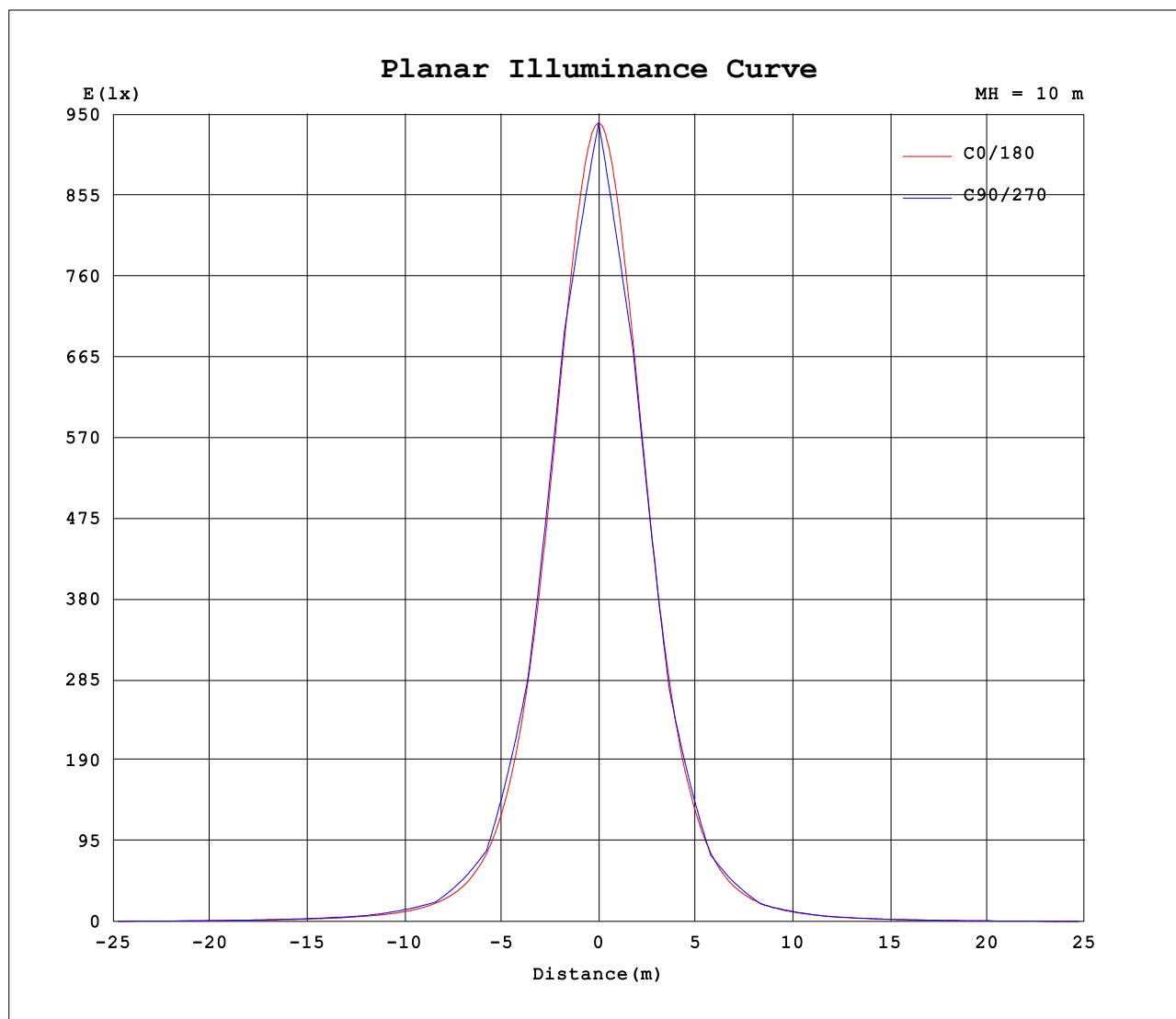
Test:U:220.5V I:1.384A P:301.0W PF:0.9861 Lamp Flux:43278.2x1 lm		
NAME: FL-5050-300	TYPE:LED	WEIGHT:10KG
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

## Planar Illuminance Curve

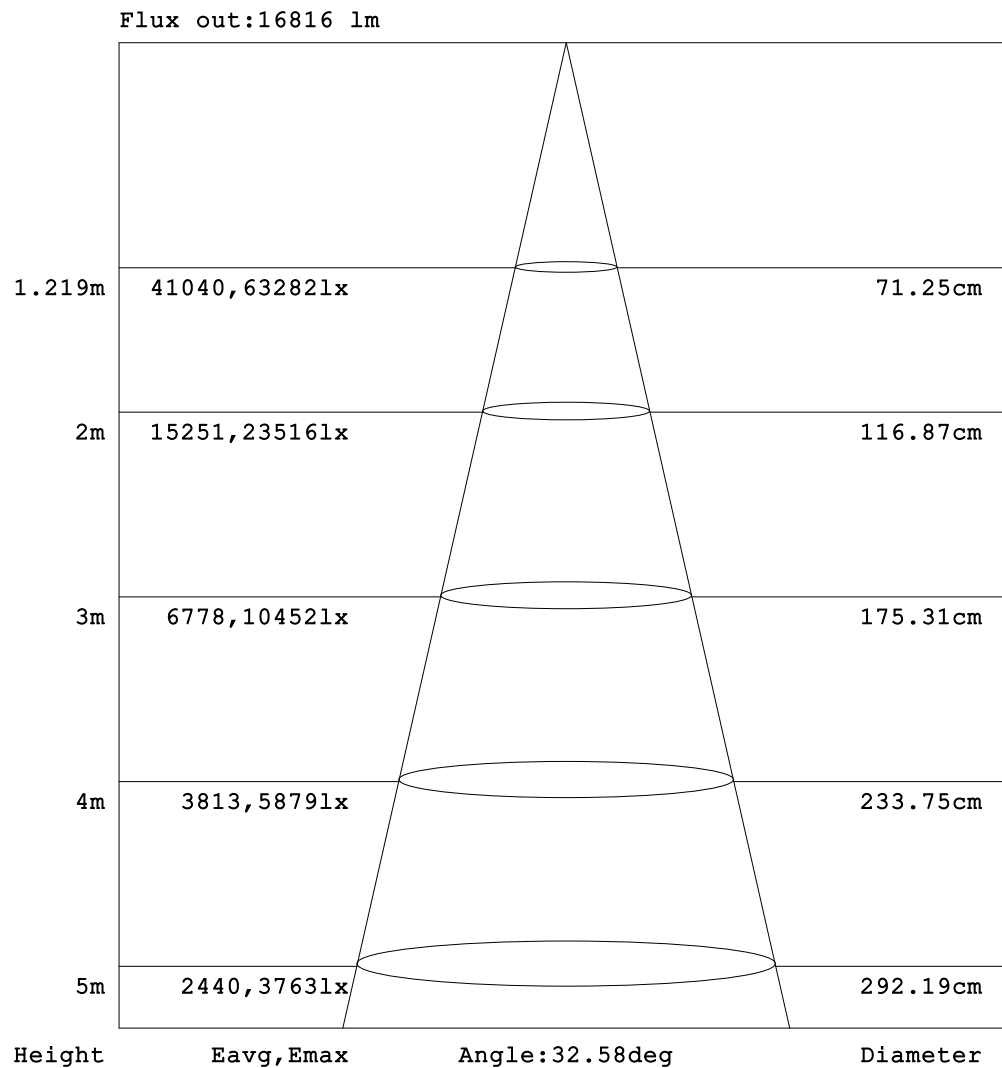


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:220.5V I:1.384A P:301.0W PF:0.9861 Lamp Flux:43278.2x1 lm		
NAME: FL-5050-300	TYPE:LED	WEIGHT:10KG
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:1.384A P:301.0W PF:0.9861 Lamp Flux:43278.2x1 lm		
NAME: FL-5050-300	TYPE:LED	WEIGHT:10KG
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: EVERFINE	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	12.2	13.7	15.8	19.1	23.3	28.3	33.8	38.7	43.0	47.1	50.7	53.6	55.6	56.6	57.1	57.5	57.4	57.0	56.9
-75	12.6	14.3	17.4	21.9	27.6	34.7	42.6	50.4	57.6	63.8	69.2	73.5	77.2	80.2	82.3	84.0	85.0	85.2	85.3
-70	13.6	17.1	22.3	29.1	37.3	47.3	57.8	68.2	77.3	85.1	91.1	96.6	102	106	109	111	113	114	114
-65	13.5	16.6	22.2	29.9	39.6	51.9	65.1	77.3	88.5	99.2	108	117	124	131	137	142	145	147	148
-60	14.4	20.0	27.9	38.1	51.0	67.0	82.8	95.5	108	121	132	143	153	162	169	175	180	182	183
-55	13.3	17.3	25.4	36.2	50.4	68.1	85.2	100	116	131	146	161	175	189	203	215	224	230	233
-50	13.4	20.6	30.8	44.6	63.6	83.4	100	117	136	154	171	190	209	228	246	262	274	282	284
-45	11.3	16.5	26.8	41.1	60.8	81.9	101	120	140	162	184	210	239	271	305	340	370	393	403
-40	10.9	19.9	33.2	51.9	75.4	95.6	116	139	162	187	217	252	294	341	392	444	488	515	521
-35	8.31	14.8	27.5	46.4	70.8	92.4	114	137	163	193	230	279	344	428	530	646	766	862	907
-30	8.23	18.7	35.5	60.2	84.0	106	130	155	186	226	279	353	457	592	758	946	1131	1259	1292
-25	5.85	13.6	30.3	54.2	79.8	102	125	152	185	230	293	390	537	758	1067	1454	1863	2204	2367
-20	6.79	20.0	42.9	69.6	93.2	116	142	174	216	278	375	528	775	1154	1668	2282	2901	3332	3443
-15	4.51	13.9	36.2	62.1	86.1	108	134	165	207	268	366	531	812	1272	1972	2913	3975	4894	5347
-10	6.03	24.2	49.5	74.9	96.5	120	149	187	239	325	468	722	1160	1895	2980	4382	5861	6949	7259
-5	3.89	17.5	41.2	65.9	88.7	111	138	173	220	294	420	642	1043	1735	2806	4308	6039	7544	8315
0	5.85	30.1	51.6	76.1	98.4	123	153	193	252	348	518	824	1390	2330	3740	5608	7540	8972	9379
5	3.23	20.3	42.1	65.6	88.1	111	138	173	220	294	419	641	1039	1725	2787	4270	5973	7448	8207
10	7.36	28.8	49.8	73.9	95.5	119	148	186	238	324	468	719	1149	1868	2929	4285	5703	6745	7044
15	2.76	19.7	40.6	63.0	85.2	107	132	164	204	266	364	527	804	1252	1932	2840	3858	4731	5161
20	7.20	27.9	47.9	70.8	91.2	113	139	171	213	275	370	520	762	1125	1616	2201	2785	3187	3284
25	2.76	18.3	38.1	58.5	80.0	99.3	121	148	180	223	285	379	522	735	1028	1395	1778	2098	2248
30	6.41	25.2	43.7	64.4	83.8	102	123	148	178	216	266	337	435	562	717	890	1060	1178	1209
35	2.75	16.5	34.5	52.4	72.4	89.5	107	128	151	179	214	259	319	397	491	597	706	794	834
40	6.09	22.8	39.4	56.6	75.1	90.6	107	126	146	169	195	226	262	303	348	392	431	454	459
45	2.87	14.2	30.2	45.4	62.0	77.9	92.1	107	124	142	161	183	207	234	263	291	317	336	343
50	5.41	18.9	33.1	46.9	62.4	76.7	88.9	102	115	130	144	159	173	187	201	212	221	227	228
55	3.21	11.7	24.9	37.2	49.8	63.1	75.2	86.4	97.1	109	120	132	142	153	162	171	177	181	183
60	5.08	15.3	26.8	37.4	48.0	59.7	70.5	79.3	87.8	96.5	105	113	120	126	131	135	137	138	139
65	3.63	9.15	18.8	28.2	37.1	46.3	55.4	63.7	71.4	78.4	84.8	91.1	96.5	101	105	108	110	111	111
70	4.64	10.5	18.7	26.4	33.5	40.4	47.2	54.4	60.7	65.5	69.5	73.3	76.9	79.7	81.8	83.1	83.6	83.7	83.7
75	4.10	6.69	12.0	17.9	23.6	29.0	34.2	39.2	44.1	48.0	51.3	54.2	57.0	59.1	60.3	61.1	61.4	61.1	60.9
80	4.46	6.58	9.97	14.0	18.1	21.8	25.1	28.0	30.8	33.2	35.4	37.4	39.0	39.6	39.5	39.5	39.0	38.3	38.1
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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:1.384A P:301.0W PF:0.9861 Lamp Flux:43278.2x1 lm		
NAME: FL-5050-300	TYPE:LED	WEIGHT:10KG
SPEC.:C470SP-Q2-P-03A 230V50HZ	DIM.:	SERIAL No.:1
MFR.: EVERFINE	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	57.3	57.7	57.6	57.2	56.6	55.1	52.7	49.8	45.9	41.8	37.3	32.1	26.7	22.0	18.2	15.8	13.5	12.4	
-75	85.4	85.4	84.9	83.7	81.8	79.2	75.7	71.6	66.8	60.9	54.2	46.6	38.7	31.0	24.9	20.0	16.5	13.5	
-70	114	113	111	109	105	101	95.5	90.0	83.1	74.8	65.2	54.7	44.3	34.7	27.2	21.3	16.7	13.8	
-65	148	147	144	140	135	128	121	113	104	94.4	83.3	71.6	58.3	45.1	34.4	26.1	19.8	14.7	
-60	182	179	174	168	160	151	140	129	118	105	92.2	78.1	61.4	46.0	34.4	25.5	18.5	14.5	
-55	232	227	219	209	197	183	169	154	140	125	110	95.3	78.4	60.1	43.0	30.5	22.0	14.8	
-50	280	270	257	241	223	204	186	167	150	133	117	99.6	81.0	59.5	40.2	28.1	19.5	13.6	
-45	399	381	353	320	286	253	224	197	173	152	133	114	95.8	75.5	52.6	33.8	22.5	13.8	
-40	506	471	423	372	322	278	239	207	179	155	134	114	95.6	73.2	48.3	29.2	18.1	12.2	
-35	889	812	699	580	472	381	308	253	212	180	153	130	109	88.9	64.6	40.0	22.8	12.8	
-30	1223	1069	878	698	544	421	329	264	217	181	153	128	107	86.6	60.3	34.3	18.4	10.9	
-25	2299	2018	1615	1209	869	622	448	335	261	210	173	144	120	98.7	75.9	49.5	25.2	12.5	
-20	3195	2661	2016	1430	981	666	464	339	259	207	170	140	115	94.0	70.1	43.4	19.3	10.9	
-15	5156	4408	3364	2344	1547	992	642	436	315	241	193	157	129	105	82.9	57.5	31.6	12.8	
-10	6633	5355	3854	2551	1615	992	627	422	302	232	185	150	123	99.3	75.4	51.4	24.4	11.0	
-5	7976	6721	5021	3385	2139	1292	790	509	351	260	204	165	134	109	85.7	60.8	37.4	13.6	
0	8492	6776	4807	3112	1892	1115	686	449	316	238	189	153	124	100	76.0	51.9	28.7	11.5	
5	7876	6636	4962	3353	2124	1286	788	508	351	260	203	164	134	108	85.4	60.6	38.3	14.6	
10	6444	5204	3758	2502	1595	985	625	420	301	231	184	149	122	98.5	74.9	51.4	28.9	10.9	
15	4978	4259	3261	2285	1517	979	635	432	312	238	190	155	127	104	81.6	58.1	36.8	14.6	
20	3046	2550	1943	1388	959	653	455	333	255	203	166	137	112	91.8	69.2	47.7	26.6	10.9	
25	2181	1919	1544	1160	839	602	434	325	252	203	167	139	115	95.2	74.8	53.4	33.7	13.3	
30	1146	1004	827	660	516	400	313	251	206	172	145	122	101	83.2	62.3	43.2	23.9	9.55	
35	818	749	645	536	437	353	286	235	196	166	142	120	101	84.3	65.4	47.0	29.3	11.3	
40	447	417	375	330	287	248	214	186	161	140	120	103	87.6	71.0	53.0	36.5	19.4	8.06	
45	340	326	302	275	246	219	193	171	151	132	116	100	86.0	71.0	54.6	39.4	24.0	8.95	
50	225	218	209	196	183	169	154	140	125	111	98.3	85.7	72.9	57.9	44.0	30.3	15.4	6.34	
55	183	179	174	166	157	147	136	125	114	102	91.2	80.3	68.8	56.2	43.6	31.5	18.6	6.95	
60	138	136	133	129	123	117	110	101	92.8	84.1	75.7	65.9	54.8	44.2	33.5	22.8	11.3	5.39	
65	111	110	109	106	103	98.2	93.0	87.1	80.7	73.9	66.5	58.6	49.9	40.9	32.2	23.1	13.3	5.57	
70	83.7	83.4	82.5	80.9	78.5	75.3	71.6	67.7	63.4	57.9	51.2	44.5	37.8	30.8	23.5	15.7	8.07	4.77	
75	61.0	61.2	61.1	60.5	59.4	57.6	55.0	52.1	49.0	45.3	40.7	35.8	30.8	25.5	19.9	14.2	8.57	4.87	
80	38.6	39.2	39.4	39.4	39.2	38.0	36.1	34.1	31.8	29.2	26.4	23.2	19.6	15.7	11.6	8.02	5.38	4.53	
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:DAMIN  
Test Date:2017-11-07

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:7.290m [K=1.0000]  
Remarks: