



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13166  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 01/04/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-100L-NF-50-GS  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	361691
Maximum Candela Angle	-1H 1V
Horizontal Beam Angle (50%)	23.5
Vertical Beam Angle (50%)	23.6
Horizontal Field Angle (10%)	49.7
Vertical Field Angle (10%)	48.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	36684
Beam Efficiency	N.A.
Field Lumens	70638
Field Efficiency	N.A.
Spill Lumens	29001
Luminaire Lumens	99639
Total Efficiency	N.A.
Total Luminaire Watts	764.6
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	6	90	0
85	113	85	0
75	652	75	0
65	1549	65	210
55	3734	55	1943
47.5	7188	47.5	3823
42.5	10393	42.5	6489
37.5	13730	37.5	9788
33	17319	33	13146
29	23271	29	18370
25.5	33623	25.5	27011
22.5	46908	22.5	39134
19.5	64803	19.5	56946
17	84606	17	75781
15	106512	15	96089
13	146505	13	134959
11	203604	11	191703
9	263827	9	253471
7	315052	7	308076
5	347014	5	343997
3	358988	3	358288
1	361674	1	361626
0	361469	0	361469
-1	361674	-1	360660
-3	358988	-3	357225
-5	347014	-5	348342
-7	315052	-7	322657
-9	263827	-9	276550
-11	203604	-11	218324
-13	146505	-13	159556
-15	106512	-15	115097
-17	84606	-17	89939
-19.5	64803	-19.5	68119
-22.5	46908	-22.5	49746
-25.5	33623	-25.5	36488
-29	23271	-29	25930
-33	17319	-33	19084
-37.5	13730	-37.5	15092
-42.5	10393	-42.5	11971
-47.5	7188	-47.5	8611
-55	3734	-55	4807
-65	1549	-65	2243
-75	652	-75	1103
-85	113	-85	289
-90	6	-90	60

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**CANDELA TABULATION**

Maximum Candela = 361691

Beam Edge = 180845.5 Cd (50% of Max.)

Field Edge = 36169.1 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>-90.0</u></b>	<b><u>-85.0</u></b>	<b><u>-75.0</u></b>	<b><u>-65.0</u></b>	<b><u>-55.0</u></b>	<b><u>-47.5</u></b>	<b><u>-42.5</u></b>	<b><u>-37.5</u></b>	<b><u>-33.0</u></b>	<b><u>-29.0</u></b>
<b>90.0</b>	6	6	4	4	3	3	3	2	2	2
<b>85.0</b>	6	12	20	18	14	13	10	7	5	4
<b>75.0</b>	6	25	63	82	86	76	66	51	31	25
<b>65.0</b>	6	38	123	208	295	331	341	345	348	344
<b>55.0</b>	6	53	200	402	604	774	897	1053	1192	1331
<b>47.5</b>	6	66	266	549	865	1169	1458	1773	2084	2378
<b>42.5</b>	6	75	315	651	1092	1606	2080	2616	3170	3730
<b>37.5</b>	6	82	362	759	1390	2190	2897	3799	4767	5693
<b>33.0</b>	6	88	404	876	1704	2761	3797	5138	6496	7817
<b>29.0</b>	6	93	446	986	1990	3352	4738	6510	8221	9851
<b>25.5</b>	6	97	481	1081	2268	3881	5655	7775	9752	11454
<b>22.5</b>	6	100	510	1153	2493	4416	6427	8838	11018	12864
<b>19.5</b>	6	103	537	1227	2709	4907	7235	9858	12218	14256
<b>17.0</b>	6	105	558	1284	2898	5302	7866	10643	13103	15508
<b>15.0</b>	6	107	574	1327	3038	5629	8338	11222	13722	16571
<b>13.0</b>	6	108	588	1366	3169	5931	8757	11761	14291	17789
<b>11.0</b>	6	112	601	1403	3290	6208	9128	12234	14936	18906
<b>9.0</b>	6	112	613	1437	3400	6457	9457	12631	15574	19912
<b>7.0</b>	6	112	624	1468	3498	6677	9743	12969	16139	20958
<b>5.0</b>	6	112	638	1496	3582	6865	9984	13247	16617	21957
<b>3.0</b>	6	113	644	1524	3670	7060	10241	13476	16997	22716
<b>1.0</b>	6	113	649	1541	3713	7145	10342	13668	17237	23154
<b>0.0</b>	6	113	652	1549	3734	7188	10393	13730	17319	23271
<b>-1.0</b>	6	113	654	1558	3745	7219	10455	13790	17348	23333
<b>-3.0</b>	6	114	659	1577	3767	7281	10579	13846	17333	23258
<b>-5.0</b>	6	115	663	1583	3745	7232	10528	13845	17334	23005
<b>-7.0</b>	6	116	659	1590	3725	7192	10456	13784	17246	22470
<b>-9.0</b>	6	116	658	1592	3707	7117	10333	13671	17049	21824
<b>-11.0</b>	6	117	655	1587	3676	7003	10162	13507	16681	21104
<b>-13.0</b>	6	114	652	1576	3629	6852	9943	13276	16224	20227
<b>-15.0</b>	6	114	646	1560	3568	6663	9708	12972	15786	19123
<b>-17.0</b>	6	113	640	1539	3491	6437	9461	12575	15264	18310
<b>-19.5</b>	6	112	630	1508	3374	6104	8961	11994	14553	17281
<b>-22.5</b>	6	110	616	1461	3228	5727	8303	11212	13789	16036
<b>-25.5</b>	6	108	599	1415	3059	5293	7631	10352	12879	14749
<b>-29.0</b>	6	105	575	1350	2828	4825	6757	9231	11575	13552
<b>-33.0</b>	6	101	542	1272	2570	4234	5796	7840	9883	11678
<b>-37.5</b>	6	95	506	1173	2257	3639	4798	6328	7968	9446
<b>-42.5</b>	6	88	460	1055	1939	2991	3869	4915	6026	7088
<b>-47.5</b>	6	80	408	944	1660	2449	3085	3830	4528	5235
<b>-55.0</b>	6	65	332	774	1291	1773	2144	2560	2950	3283
<b>-65.0</b>	6	48	225	504	851	1120	1304	1484	1641	1760
<b>-75.0</b>	6	33	127	266	449	588	682	764	833	891
<b>-85.0</b>	6	16	50	85	130	170	194	213	228	240
<b>-90.0</b>	6	8	18	26	34	39	42	46	49	51

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**CANDELA TABULATION - (Cont.)**

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	2	2	1	1	1	1	1	0	0	0
85.0	2	2	1	1	1	1	1	0	0	0
75.0	14	8	6	4	2	1	1	0	0	0
65.0	327	311	307	298	286	274	267	257	245	230
55.0	1437	1542	1637	1700	1752	1802	1848	1885	1913	1931
47.5	2636	2905	3119	3282	3419	3531	3620	3691	3728	3733
42.5	4253	4697	5102	5359	5600	5816	5990	6160	6309	6413
37.5	6540	7200	7794	8213	8517	8865	9162	9407	9601	9719
33.0	8909	9760	10525	11108	11502	11862	12226	12543	12810	13004
29.0	11067	12052	13002	13773	14405	15235	15957	16542	17159	17747
25.5	12884	14107	15704	17285	18780	20286	21606	23488	25117	26213
22.5	14563	16501	19167	21831	24528	27507	30297	33481	36044	37845 *
19.5	16591	19710	23893	28758	32971	37495 *	41968 *	46564 *	50200 *	52865 *
17.0	18618	23342	29654	36041	41453 *	47760 *	53324 *	59796 *	65336 *	69465 *
15.0	20723	26614	34694	42432 *	49796 *	57028 *	64676 *	71992 *	81272 *	88205 *
13.0	22807	30014	39948 *	49922 *	58307 *	67765 *	78068 *	89942 *	102328 *	117408 *
11.0	24689	33212	44875 *	56635 *	67414 *	79548 *	93925 *	114646 *	136648 *	158261 *
9.0	27046	36892 *	50095 *	63595 *	75582 *	93086 *	116581 *	143876 *	182385 *	214248 *
7.0	29161	39970 *	54430 *	69921 *	86103 *	107292 *	140933 *	184974 *	232288 *	268612 *
5.0	30880	42735 *	58023 *	75504 *	95326 *	125416 *	165446 *	219587 *	269619 *	309999 *
3.0	32174	45104 *	62021 *	80770 *	102205 *	139551 *	191455 *	248230 *	301994 *	330056 *
1.0	33225	46673 *	64419 *	84158 *	106489 *	145764 *	202074 *	261973 *	313384 *	345414 *
0.0	33623	46908 *	64803 *	84606 *	106512 *	146505 *	203604 *	263827 *	315052 *	347014 *
-1.0	33567	46817 *	64375 *	83992 *	106929 *	146815 *	206318 *	267607 *	317625 *	348555 *
-3.0	33207	46035 *	63288 *	82057 *	104551 *	141961 *	195897 *	257265 *	308133 *	336516 *
-5.0	32611	44913 *	61430 *	78745 *	100862 *	132970 *	175377 *	232612 *	282613 *	322042 *
-7.0	31527	42911 *	57839 *	74363 *	92274 *	115645 *	152348 *	200648 *	251811 *	285671 *
-9.0	29664	40396 *	54473 *	68729 *	82108 *	102016 *	129775 *	163937 *	203782 *	238841 *
-11.0	27805	37370 *	49605 *	61576 *	73855 *	88469 *	107388 *	131700 *	156821 *	182271 *
-13.0	26287	34189	44715 *	55231 *	64793 *	76126 *	89263 *	104304 *	119589 *	138964 *
-15.0	24267	30711	39587 *	48335 *	56765 *	65451 *	75117 *	83891 *	95270 *	105367 *
-17.0	22293	27432	34781	42201 *	48672 *	56279 *	63065 *	70349 *	76687 *	81733 *
-19.5	20393	24087	29153	34960	40087 *	45753 *	50803 *	55886 *	59790 *	62696 *
-22.5	18368	20898	24221	27787	31255	34862	38323 *	41846 *	44534 *	46674 *
-25.5	16643	18458	20637	22699	24712	26778	28608	30912	32838	34377
-29.0	14829	16194	17636	18855	19777	20909	21938	22829	23769	24676
-33.0	13071	14104	14962	15789	16421	16984	17547	18053	18474	18803
-37.5	10667	11642	12553	13240	13731	14094	14415	14686	14883	15028
-42.5	8075	8845	9574	10113	10513	10885	11221	11499	11716	11879
-47.5	5830	6382	6878	7260	7557	7819	8044	8225	8371	8479
-55.0	3581	3813	4036	4221	4349	4459	4550	4623	4681	4723
-65.0	1862	1937	2014	2072	2115	2152	2179	2202	2218	2230
-75.0	938	969	993	1009	1020	1035	1049	1062	1074	1090
-85.0	250	259	269	277	282	285	292	291	291	291
-90.0	53	55	57	58	59	60	60	60	60	60

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	0	0	1	1
85.0	0	0	0	0	0	0	0	0	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	225	215	210	215	225	230	245	257	267	274

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**CANDELA TABULATION - (Cont.)**

55.0	1953	1946	1943	1946	1953	1931	1913	1885	1848	1802
47.5	3769	3805	3823	3805	3769	3733	3728	3691	3620	3531
42.5	6524	6501	6489	6501	6524	6413	6309	6160	5990	5816
37.5	9765	9804	9788	9804	9765	9719	9601	9407	9162	8865
33.0	13110	13154	13146	13154	13110	13004	12810	12543	12226	11862
29.0	18100	18326	18370	18326	18100	17747	17159	16542	15957	15235
25.5	26780	27010	27011	27010	26780	26213	25117	23488	21606	20286
22.5	38794 *	39241 *	39134 *	39241 *	38794 *	37845 *	36044	33481	30297	27507
19.5	54684 *	56041 *	56946 *	56041 *	54684 *	52865 *	50200 *	46564 *	41968 *	37495 *
17.0	72540 *	74609 *	75781 *	74609 *	72540 *	69465 *	65336 *	59796 *	53324 *	47760 *
15.0	92865 *	95721 *	96089 *	95721 *	92865 *	88205 *	81272 *	71992 *	64676 *	57028 *
13.0	127994 *	133670 *	134959 *	133670 *	127994 *	117408 *	102328 *	89942 *	78068 *	67765 *
11.0	178294 *	191855 *	191703 *	191855 *	178294 *	158261 *	136648 *	114646 *	93925 *	79548 *
9.0	237878 *	254259 *	253471 *	254259 *	237878 *	214248 *	182385 *	143876 *	116581 *	93086 *
7.0	295153 *	308664 *	308076 *	308664 *	295153 *	268612 *	232288 *	184974 *	140933 *	107292 *
5.0	329614 *	344263 *	343997 *	344263 *	329614 *	309999 *	269619 *	219587 *	165446 *	125416 *
3.0	349163 *	356930 *	358288 *	356930 *	349163 *	330056 *	301994 *	248230 *	191455 *	139551 *
1.0	357598 *	361691 *	361626 *	361691 *	357598 *	345414 *	313384 *	261973 *	202074 *	145764 *
0.0	358988 *	361674 *	361469 *	361674 *	358988 *	347014 *	315052 *	263827 *	203604 *	146505 *
-1.0	358406 *	361485 *	360660 *	361485 *	358406 *	348555 *	317625 *	267607 *	206318 *	146815 *
-3.0	353423 *	357393 *	357225 *	357393 *	353423 *	336516 *	308133 *	257265 *	195897 *	141961 *
-5.0	337834 *	349485 *	348342 *	349485 *	337834 *	322042 *	282613 *	232612 *	175377 *	132970 *
-7.0	312800 *	322812 *	322657 *	322812 *	312800 *	285671 *	251811 *	200648 *	152348 *	115645 *
-9.0	265128 *	276032 *	276550 *	276032 *	265128 *	238841 *	203782 *	163937 *	129775 *	102016 *
-11.0	208390 *	217527 *	218324 *	217527 *	208390 *	182271 *	156821 *	131700 *	107388 *	88469 *
-13.0	153924 *	159005 *	159556 *	159005 *	153924 *	138964 *	119589 *	104304 *	89263 *	76126 *
-15.0	112345 *	115244 *	115097 *	115244 *	112345 *	105367 *	95270 *	83891 *	75117 *	65451 *
-17.0	86742 *	89692 *	89939 *	89692 *	86742 *	81733 *	76687 *	70349 *	63065 *	56279 *
-19.5	66158 *	68027 *	68119 *	68027 *	66158 *	62696 *	59790 *	55886 *	50803 *	45753 *
-22.5	48308 *	49480 *	49746 *	49480 *	48308 *	46674 *	44534 *	41846 *	38323 *	34862
-25.5	35475	36238 *	36488 *	36238 *	35475	34377	32838	30912	28608	26778
-29.0	25311	25780	25930	25780	25311	24676	23769	22829	21938	20909
-33.0	19031	19096	19084	19096	19031	18803	18474	18053	17547	16984
-37.5	15121	15121	15092	15121	15121	15028	14883	14686	14415	14094
-42.5	12042	11995	11971	11995	12042	11879	11716	11499	11221	10885
-47.5	8597	8606	8611	8606	8597	8479	8371	8225	8044	7819
-55.0	4780	4798	4807	4798	4780	4723	4681	4623	4550	4459
-65.0	2244	2243	2243	2243	2244	2230	2218	2202	2179	2152
-75.0	1095	1100	1103	1100	1095	1090	1074	1062	1049	1035
-85.0	290	289	289	289	290	291	291	291	292	285
-90.0	60	60	60	60	60	60	60	60	60	60

**Vert. Angles**      **Horizontal Angles**

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	1	1	1	2	2	2	2	2	3	3
85.0	1	1	1	2	2	4	5	7	10	13
75.0	2	4	6	8	14	25	31	51	66	76
65.0	286	298	307	311	327	344	348	345	341	331
55.0	1752	1700	1637	1542	1437	1331	1192	1053	897	774
47.5	3419	3282	3119	2905	2636	2378	2084	1773	1458	1169
42.5	5600	5359	5102	4697	4253	3730	3170	2616	2080	1606
37.5	8517	8213	7794	7200	6540	5693	4767	3799	2897	2190
33.0	11502	11108	10525	9760	8909	7817	6496	5138	3797	2761
29.0	14405	13773	13002	12052	11067	9851	8221	6510	4738	3352
25.5	18780	17285	15704	14107	12884	11454	9752	7775	5655	3881

**IES FLOOD REPORT**  
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**CANDELA TABULATION - (Cont.)**

22.5	24528	21831	19167	16501	14563	12864	11018	8838	6427	4416
19.5	32971	28758	23893	19710	16591	14256	12218	9858	7235	4907
17.0	41453 *	36041	29654	23342	18618	15508	13103	10643	7866	5302
15.0	49796 *	42432 *	34694	26614	20723	16571	13722	11222	8338	5629
13.0	58307 *	49922 *	39948 *	30014	22807	17789	14291	11761	8757	5931
11.0	67414 *	56635 *	44875 *	33212	24689	18906	14936	12234	9128	6208
9.0	75582 *	63595 *	50095 *	36892 *	27046	19912	15574	12631	9457	6457
7.0	86103 *	69921 *	54430 *	39970 *	29161	20958	16139	12969	9743	6677
5.0	95326 *	75504 *	58023 *	42735 *	30880	21957	16617	13247	9984	6865
3.0	102205 *	80770 *	62021 *	45104 *	32174	22716	16997	13476	10241	7060
1.0	106489 *	84158 *	64419 *	46673 *	33225	23154	17237	13668	10342	7145
0.0	106512 *	84606 *	64803 *	46908 *	33623	23271	17319	13730	10393	7188
-1.0	106929 *	83992 *	64375 *	46817 *	33567	23333	17348	13790	10455	7219
-3.0	104551 *	82057 *	63288 *	46035 *	33207	23258	17333	13846	10579	7281
-5.0	100862 *	78745 *	61430 *	44913 *	32611	23005	17334	13845	10528	7232
-7.0	92274 *	74363 *	57839 *	42911 *	31527	22470	17246	13784	10456	7192
-9.0	82108 *	68729 *	54473 *	40396 *	29664	21824	17049	13671	10333	7117
-11.0	73855 *	61576 *	49605 *	37370 *	27805	21104	16681	13507	10162	7003
-13.0	64793 *	55231 *	44715 *	34189	26287	20227	16224	13276	9943	6852
-15.0	56765 *	48335 *	39587 *	30711	24267	19123	15786	12972	9708	6663
-17.0	48672 *	42201 *	34781	27432	22293	18310	15264	12575	9461	6437
-19.5	40087 *	34960	29153	24087	20393	17281	14553	11994	8961	6104
-22.5	31255	27787	24221	20898	18368	16036	13789	11212	8303	5727
-25.5	24712	22699	20637	18458	16643	14749	12879	10352	7631	5293
-29.0	19777	18855	17636	16194	14829	13552	11575	9231	6757	4825
-33.0	16421	15789	14962	14104	13071	11678	9883	7840	5796	4234
-37.5	13731	13240	12553	11642	10667	9446	7968	6328	4798	3639
-42.5	10513	10113	9574	8845	8075	7088	6026	4915	3869	2991
-47.5	7557	7260	6878	6382	5830	5235	4528	3830	3085	2449
-55.0	4349	4221	4036	3813	3581	3283	2950	2560	2144	1773
-65.0	2115	2072	2014	1937	1862	1760	1641	1484	1304	1120
-75.0	1020	1009	993	969	938	891	833	764	682	588
-85.0	282	277	269	259	250	240	228	213	194	170
-90.0	59	58	57	55	53	51	49	46	42	39

Vert. Angles	Horizontal Angles				
	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	3	4	4	6	6
85.0	14	18	20	12	6
75.0	86	82	63	25	6
65.0	295	208	123	38	6
55.0	604	402	200	53	6
47.5	865	549	266	66	6
42.5	1092	651	315	75	6
37.5	1390	759	362	82	6
33.0	1704	876	404	88	6
29.0	1990	986	446	93	6
25.5	2268	1081	481	97	6
22.5	2493	1153	510	100	6
19.5	2709	1227	537	103	6
17.0	2898	1284	558	105	6
15.0	3038	1327	574	107	6
13.0	3169	1366	588	108	6
11.0	3290	1403	601	112	6
9.0	3400	1437	613	112	6

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	3498	1468	624	112	6
<b>5.0</b>	3582	1496	638	112	6
<b>3.0</b>	3670	1524	644	113	6
<b>1.0</b>	3713	1541	649	113	6
<b>0.0</b>	3734	1549	652	113	6
<b>-1.0</b>	3745	1558	654	113	6
<b>-3.0</b>	3767	1577	659	114	6
<b>-5.0</b>	3745	1583	663	115	6
<b>-7.0</b>	3725	1590	659	116	6
<b>-9.0</b>	3707	1592	658	116	6
<b>-11.0</b>	3676	1587	655	117	6
<b>-13.0</b>	3629	1576	652	114	6
<b>-15.0</b>	3568	1560	646	114	6
<b>-17.0</b>	3491	1539	640	113	6
<b>-19.5</b>	3374	1508	630	112	6
<b>-22.5</b>	3228	1461	616	110	6
<b>-25.5</b>	3059	1415	599	108	6
<b>-29.0</b>	2828	1350	575	105	6
<b>-33.0</b>	2570	1272	542	101	6
<b>-37.5</b>	2257	1173	506	95	6
<b>-42.5</b>	1939	1055	460	88	6
<b>-47.5</b>	1660	944	408	80	6
<b>-55.0</b>	1291	774	332	65	6
<b>-65.0</b>	851	504	225	48	6
<b>-75.0</b>	449	266	127	33	6
<b>-85.0</b>	130	85	50	16	6
<b>-90.0</b>	34	26	18	8	6

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 49819.7

Total Field Lumens (one side of beam only) = 35319.11

\* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02
65	0.32	0.67	0.69	0.72	0.76	0.79	0.81	0.83	0.86	1.11
55	3.29	6.60	6.59	6.54	6.49	6.38	6.24	6.08	5.91	7.13
47.5	6.58	13.10	12.97	12.84	12.69	12.42	12.07	11.64	11.15	13.20
42.5	7.85	15.68	15.53	15.29	15.00	14.59	14.12	13.57	12.93	15.24
37.5	12.41	24.81	24.63	24.27	23.74	23.04	22.22	21.28	20.27	23.93
33	15.73	31.39	31.17	30.76	30.11	29.25	28.23	27.10	25.92	30.62
29	19.19	38.17	37.65	36.79	35.63	34.36	32.94	31.33	29.74	35.01
25.5	24.18	48.06	47.24	45.72	43.45	40.73	38.11	35.54	32.92	37.82
22.5	30.25	60.19	59.08	56.90	53.45	48.99	44.56	40.39	36.20	40.13
19.5	43.72 *	86.19 *	83.95 *	80.41 *	75.24 *	68.53 *	61.35	54.31	47.47	50.79
17	50.14 *	98.13 *	94.79 *	90.07 *	83.67 *	75.61 *	67.24 *	58.99 *	50.96	53.49
15	52.12 *	102.20 *	98.17 *	92.18 *	83.97 *	74.93 *	66.38 *	57.94 *	49.69 *	51.64
13	70.13 *	137.06 *	129.59 *	117.91 *	104.23 *	91.40 *	79.71 *	68.83 *	58.69 *	60.38 *
11	99.33 *	192.33 *	176.83 *	155.90 *	133.80 *	112.96 *	95.14 *	80.70 *	68.01 *	69.20 *
9	135.74 *	262.49 *	239.65 *	209.49 *	174.21 *	140.70 *	114.15 *	93.29 *	77.07 *	77.81 *
7	171.26 *	333.63 *	308.69 *	271.89 *	224.27 *	175.89 *	136.43 *	107.01 *	86.44 *	86.07 *
5	198.75 *	388.95 *	365.66 *	327.32 *	273.42 *	213.26 *	160.62 *	122.40 *	95.70 *	93.25 *
3	213.75 *	420.09 *	400.74 *	367.05 *	313.53 *	247.39 *	185.28 *	136.69 *	103.59 *	99.91 *
1	219.09 *	433.91 *	420.00 *	391.04 *	339.52 *	271.10 *	202.26 *	146.01 *	109.40 *	105.36 *
0	110.15 *	219.17 *	214.07 *	200.07 *	174.08 *	139.71 *	103.98 *	74.67 *	55.89 *	53.87 *
-1	110.06 *	219.26 *	214.67 *	201.18 *	175.57 *	141.19 *	104.76 *	74.89 *	55.93 *	53.84 *
	218.82 *	435.53 *	424.46 *	397.09 *	347.07 *	278.10 *	205.88 *	147.85 *	110.54 *	106.20 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	215.12 *	425.62 *	410.15 *	378.46 *	325.96 *	258.32 *	192.53 *	141.97 *	107.23 *	103.24 *
<b>-5</b>	204.59 *	402.72 *	382.36 *	345.99 *	291.89 *	228.28 *	171.72 *	130.56 *	101.38 *	98.49 *
<b>-7</b>	182.46 *	358.23 *	334.99 *	296.91 *	247.40 *	194.00 *	148.91 *	115.87 *	92.96 *	92.35 *
<b>-9</b>	150.54 *	294.39 *	271.84 *	236.81 *	197.95 *	159.83 *	127.42 *	102.39 *	83.82 *	84.75 *
<b>-11</b>	114.90 *	224.92 *	207.70 *	181.05 *	154.56 *	129.79 *	107.63 *	89.62 *	74.80 *	76.34 *
<b>-13</b>	83.60 *	164.54 *	155.15 *	139.10 *	121.58 *	105.76 *	91.16 *	77.77 *	65.92 *	67.93 *
<b>-15</b>	62.44 *	122.99 *	117.35 *	108.77 *	98.39 *	87.72 *	77.44 *	67.14 *	57.38 *	59.63 *
<b>-17</b>	60.12 *	118.20 *	112.93 *	106.37 *	99.05 *	90.03 *	80.41 *	70.49 *	60.73 *	63.77
<b>-19.5</b>	53.77 *	105.92 *	102.02 *	97.10 *	91.42 *	84.08 *	75.86 *	67.37 *	58.89	62.98
<b>-22.5</b>	39.28 *	77.40 *	75.13 *	71.99 *	67.93 *	62.85	57.46	52.14	46.75	51.71
<b>-25.5</b>	33.17	65.42	63.72	61.32	58.25	54.75	51.22	47.68	44.09	50.51
<b>-29</b>	27.38	54.32	53.37	51.94	50.15	48.22	46.11	43.80	41.49	48.63
<b>-33</b>	23.44	46.83	46.48	45.80	44.86	43.67	42.26	40.72	38.99	46.00
<b>-37.5</b>	20.63	41.31	41.07	40.52	39.80	38.86	37.70	36.37	34.84	41.11
<b>-42.5</b>	15.68	31.39	31.14	30.63	30.02	29.24	28.28	27.17	25.94	30.58
<b>-47.5</b>	15.32	30.57	30.29	29.82	29.30	28.62	27.79	26.80	25.68	30.37
<b>-55</b>	10.73	21.41	21.24	20.98	20.70	20.33	19.87	19.32	18.68	22.32
<b>-65</b>	5.09	10.17	10.12	10.01	9.89	9.74	9.56	9.34	9.10	11.01
<b>-75</b>	2.12	4.22	4.20	4.16	4.10	4.04	3.96	3.87	3.79	4.61
<b>-85</b>	0.27	0.53	0.53	0.53	0.53	0.53	0.52	0.51	0.49	0.60
<b>-90</b>										
<b>Total</b>	3133.47	6168.72	5878.64	5389.69	4707.59	3919.99	3180.29	2582.24	2138.25	2212.97

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.06	0.07	0.06
<b>85</b>	0.04	0.05	0.11	0.17	0.26	0.39	0.44	0.68	0.76	0.48
<b>75</b>	1.35	1.38	1.68	1.95	2.17	2.34	2.19	2.82	2.55	1.24
<b>65</b>	8.10	7.55	8.15	8.39	8.22	7.69	6.31	7.16	5.74	2.43
<b>55</b>	14.72	13.34	13.83	13.68	12.80	11.33	8.68	9.14	6.90	2.76

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	16.87	15.12	15.40	14.83	13.49	11.56	8.50	8.45	6.00	2.32
<b>42.5</b>	26.44	23.68	23.95	22.66	20.08	16.61	11.81	11.21	7.40	2.71
<b>37.5</b>	33.86	30.44	30.87	29.10	25.43	20.51	14.10	12.93	8.09	2.81
<b>33</b>	38.68	34.88	35.67	33.82	29.51	23.54	15.77	14.01	8.45	2.82
<b>29</b>	40.95	36.60	37.53	35.89	31.59	25.19	16.60	14.37	8.42	2.73
<b>25.5</b>	41.89	36.35	36.79	35.31	31.38	25.10	16.46	13.99	7.98	2.52
<b>22.5</b>	50.72	42.17	41.42	39.44	35.20	28.31	18.56	15.57	8.65	2.67
<b>19.5</b>	51.50	40.83	38.48	35.95	32.05	25.95	17.03	14.13	7.72	2.35
<b>17</b>	48.75	37.27	33.84	30.75	27.25	22.20	14.61	12.05	6.50	1.95
<b>15</b>	55.99	41.80	36.91	32.57	28.54	23.37	15.43	12.69	6.77	2.01
<b>13</b>	63.15 *	46.21	39.89	34.42	29.78	24.42	16.16	13.29	7.02	2.06
<b>11</b>	70.41 *	50.85	42.91	36.20	30.99	25.34	16.82	13.83	7.25	2.11
<b>9</b>	77.37 *	55.54	46.00	37.90	32.07	26.13	17.41	14.31	7.46	2.15
<b>7</b>	83.24 *	59.58	48.79	39.51	33.00	26.79	17.91	14.73	7.64	2.20
<b>5</b>	88.67 *	62.98 *	51.05	40.87	33.76	27.38	18.38	15.13	7.81	2.24
<b>3</b>	93.08 *	65.60 *	52.72	41.82	34.35	27.83	18.73	15.42	7.95	2.27
<b>1</b>	47.52 *	33.48 *	26.84	21.14	17.33	14.04	9.44	7.78	4.01	1.14
<b>0</b>	47.54 *	33.58 *	26.96	21.22	17.40	14.10	9.49	7.82	4.03	1.15
<b>-1</b>	94.06 *	66.62 *	53.72	42.43	34.87	28.38	19.13	15.73	8.10	2.31
<b>-3</b>	91.99 *	65.43 *	53.11	42.25	34.89	28.46	19.18	15.74	8.12	2.33
<b>-5</b>	88.33 *	63.43 *	51.94	41.80	34.81	28.35	19.06	15.64	8.09	2.34
<b>-7</b>	83.44 *	60.31	49.98	41.03	34.55	28.14	18.89	15.53	8.07	2.34
<b>-9</b>	77.56 *	56.44	47.57	40.02	34.08	27.80	18.63	15.36	8.03	2.34
<b>-11</b>	70.75 *	52.44	45.22	38.76	33.40	27.34	18.28	15.12	7.96	2.33
<b>-13</b>	63.64 *	48.19	42.60	37.26	32.60	26.77	17.85	14.80	7.86	2.31
<b>-15</b>	56.52	43.70	39.80	35.76	31.67	26.08	17.37	14.40	7.73	2.28
<b>-17</b>	61.56	49.15	46.36	42.69	38.04	31.34	20.84	17.33	9.42	2.81
<b>-19.5</b>	62.93	52.43	51.23	48.29	43.27	35.40	23.49	19.76	10.92	3.29

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	53.88	46.56	46.77	45.00	40.48	32.80	21.76	18.55	10.45	3.19
<b>-25.5</b>	54.43	48.30	49.57	48.20	43.12	34.67	23.09	20.01	11.52	3.59
<b>-29</b>	53.65	48.58	50.35	48.75	43.12	34.55	23.27	20.66	12.20	3.89
<b>-33</b>	51.11	46.47	47.83	45.79	40.31	32.49	22.37	20.42	12.44	4.09
<b>-37.5</b>	45.44	40.93	41.79	39.85	35.30	29.03	20.59	19.34	12.21	4.15
<b>-42.5</b>	33.78	30.40	31.07	29.86	27.00	22.89	16.68	16.15	10.64	3.73
<b>-47.5</b>	33.76	30.69	31.86	31.32	29.10	25.41	19.08	19.22	13.32	4.80
<b>-55</b>	25.17	23.36	24.84	25.15	24.16	21.85	17.07	17.99	13.01	4.77
<b>-65</b>	12.61	11.91	12.91	13.38	13.21	12.35	9.94	10.75	7.87	2.92
<b>-75</b>	5.31	5.04	5.49	5.72	5.70	5.40	4.40	4.78	3.54	1.37
<b>-85</b>	0.68	0.64	0.70	0.74	0.75	0.72	0.60	0.67	0.52	0.23
<b>-90</b>										
<b>Total</b>	2121.42	1660.31	1514.51	1351.64	1181.12	970.39	662.43	579.51	337.20	108.57

<b>Vert. Angles</b>	<b>Horizontal Angles</b>		
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>
<b>90</b>			
	0.03	0.00	0.37
<b>85</b>			
	0.16	0.01	3.59
<b>75</b>			
	0.33	0.01	27.57
<b>65</b>			
	0.55	0.02	131.54
<b>55</b>			
	0.58	0.02	226.44
<b>47.5</b>			
	0.48	0.01	252.82
<b>42.5</b>			
	0.55	0.01	387.68
<b>37.5</b>			
	0.56	0.01	489.01
<b>33</b>			
	0.54	0.01	568.52
<b>29</b>			
	0.52	0.01	644.14
<b>25.5</b>			
	0.47	0.01	718.39
<b>22.5</b>			
	0.50	0.01	935.17
<b>19.5</b>			
	0.43	0.01	989.52
<b>17</b>			
	0.36	0.01	964.76

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

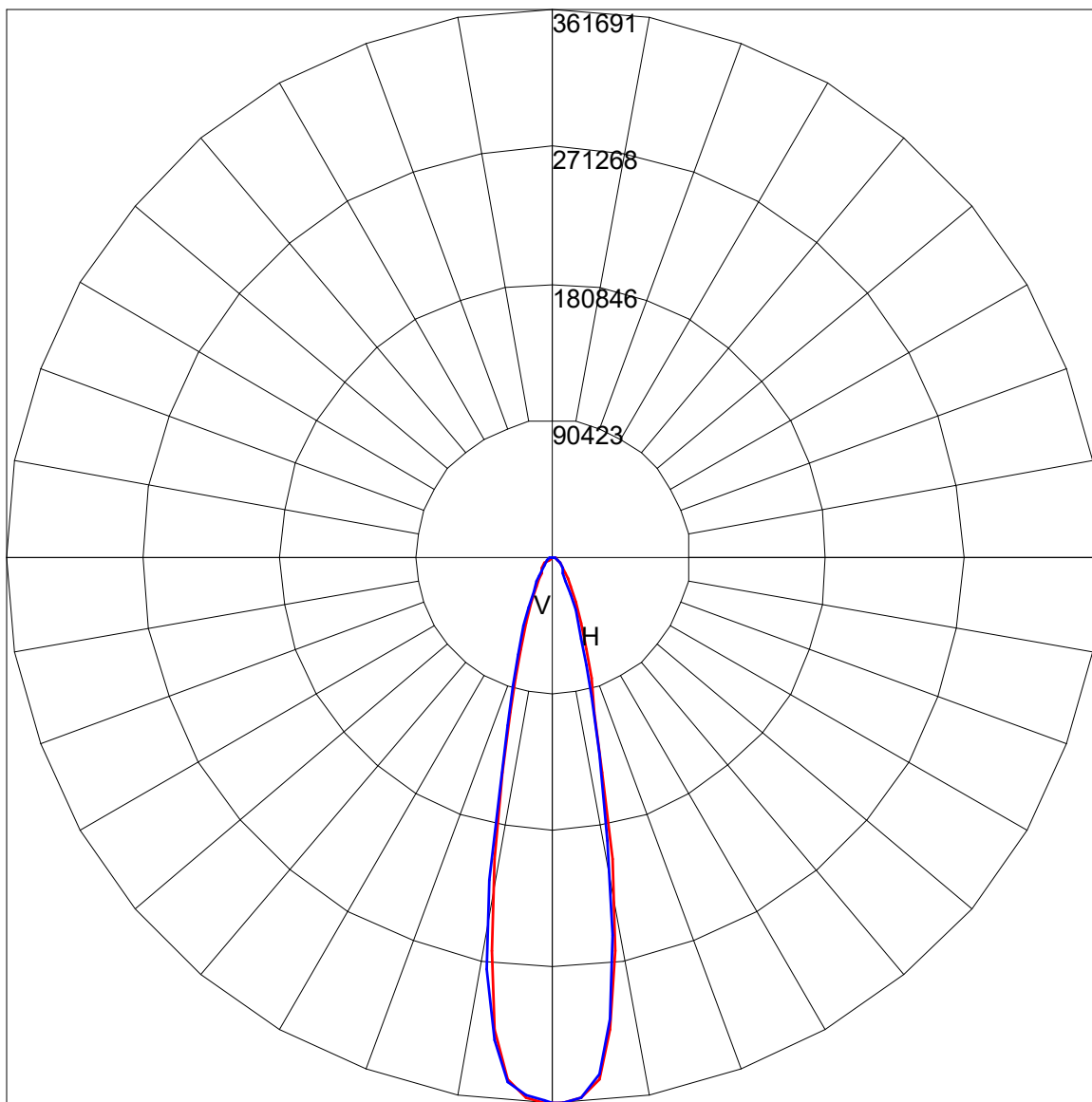
<b>15</b>	0.36	0.01	1174.37
<b>13</b>	0.37	0.01	1460.99
<b>11</b>	0.38	0.01	1821.7
<b>9</b>	0.39	0.01	2218.3
<b>7</b>	0.39	0.01	2573.13
<b>5</b>	0.40	0.01	2836.72
<b>3</b>	0.40	0.01	2997.86
<b>1</b>	0.20	0.00	1528.57
<b>0</b>	0.20	0.00	1534.85
<b>-1</b>	0.41	0.01	3037.33
<b>-3</b>	0.41	0.01	2920.51
<b>-5</b>	0.41	0.01	2712.18
<b>-7</b>	0.41	0.01	2406.78
<b>-9</b>	0.41	0.01	2038.01
<b>-11</b>	0.41	0.01	1673.33
<b>-13</b>	0.40	0.01	1366.79
<b>-15</b>	0.40	0.01	1134.96
<b>-17</b>	0.49	0.01	1182.13
<b>-19.5</b>	0.58	0.01	1151.02
<b>-22.5</b>	0.57	0.01	922.67
<b>-25.5</b>	0.64	0.01	867.26
<b>-29</b>	0.70	0.01	805.13
<b>-33</b>	0.74	0.02	743.11
<b>-37.5</b>	0.76	0.02	661.64
<b>-42.5</b>	0.68	0.01	502.97
<b>-47.5</b>	0.88	0.02	514.00
<b>-55</b>	0.88	0.02	393.83
<b>-65</b>	0.57	0.02	202.46

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

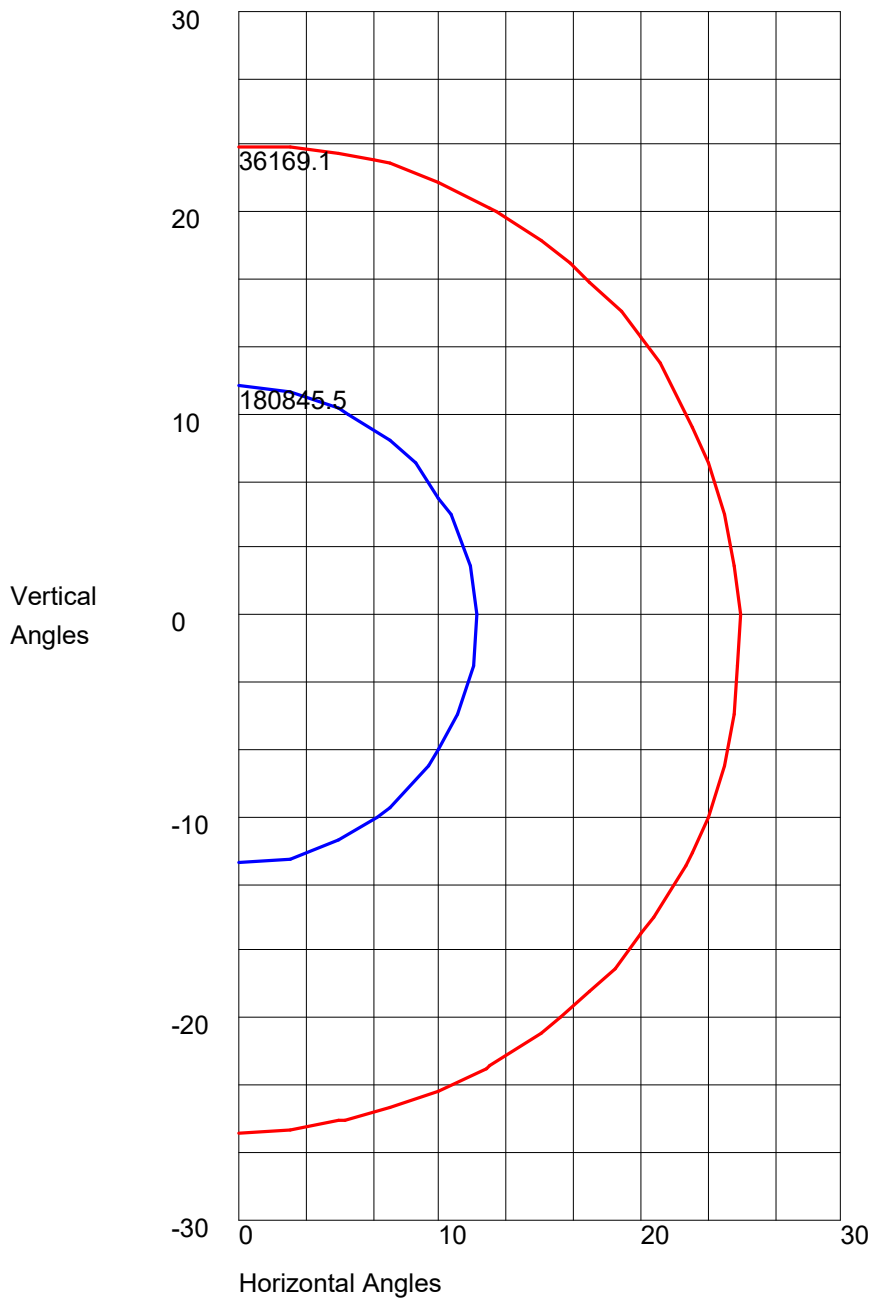
<b>-75</b>	0.30	0.01	86.14
<b>-85</b>	0.06	0.00	11.36
<b>-90</b>			
<b>Total</b>	20.25	0.46	49819.65

AXIAL CANDELA DISPLAY



Maximum Candela = 361691 Located At Horizontal Angle = -1, Vertical Angle = 1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 361691 Located At Horizontal Angle = -1, Vertical Angle = 1  
50% Maximum Candela = 180845.5  
10% Maximum Candela = 36169.1