



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13045  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 11/11/21  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] ZNF-85L-NF-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLOR TEMP] 5000

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

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	295600
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	24.4
Vertical Beam Angle (50%)	24.4
Horizontal Field Angle (10%)	49.1
Vertical Field Angle (10%)	49.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	33341
Beam Efficiency	N.A.
Field Lumens	59351
Field Efficiency	N.A.
Spill Lumens	25302
Luminaire Lumens	84653
Total Efficiency	N.A.
Total Luminaire Watts	575.7
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	128	85	130
75	683	75	686
65	1524	65	1529
55	3364	55	3380
47.5	6105	47.5	6069
42.5	8457	42.5	8480
37.5	11152	37.5	11142
33	13895	33	13988
29	18500	29	18692
25.5	26363	25.5	26628
22.5	36499	22.5	36996
19.5	51229	19.5	51821
17	68436	17	69364
15	87778	15	89241
13	125074	13	126561
11	178270	11	178723
9	228728	9	228487
7	265724	7	265435
5	286452	5	285970
3	293874	3	293585
1	295503	1	295406
0	295351	0	295351
-1	295503	-1	295406
-3	293874	-3	293585
-5	286452	-5	285970
-7	265724	-7	265435
-9	228728	-9	228487
-11	178270	-11	178723
-13	125074	-13	126561
-15	87778	-15	89241
-17	68436	-17	69364
-19.5	51229	-19.5	51821
-22.5	36499	-22.5	36996
-25.5	26363	-25.5	26628
-29	18500	-29	18692
-33	13895	-33	13988
-37.5	11152	-37.5	11142
-42.5	8457	-42.5	8480
-47.5	6105	-47.5	6069
-55	3364	-55	3380
-65	1524	-65	1529
-75	683	-75	686
-85	128	-85	130
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 295600

Beam Edge = 147800 Cd (50% of Max.)

Field Edge = 29560 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>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	8	24	38	57	75	86	95	102	108
<b>75.0</b>	0	23	91	185	295	375	430	480	519	553
<b>65.0</b>	0	38	183	385	615	786	899	1008	1107	1187
<b>55.0</b>	0	57	291	610	975	1290	1531	1810	2081	2315
<b>47.5</b>	0	74	373	779	1285	1829	2272	2779	3265	3745
<b>42.5</b>	0	85	428	890	1535	2272	2892	3625	4387	5114
<b>37.5</b>	0	94	478	1000	1813	2795	3620	4676	5773	6766
<b>33.0</b>	0	102	519	1099	2081	3272	4381	5764	7108	8317
<b>29.0</b>	0	108	555	1182	2314	3752	5115	6757	8311	9806
<b>25.5</b>	0	112	584	1253	2527	4166	5776	7605	9399	10980
<b>22.5</b>	0	116	606	1306	2690	4555	6306	8322	10260	12025
<b>19.5</b>	0	119	626	1360	2844	4898	6808	8984	11036	13004
<b>17.0</b>	0	121	640	1399	2974	5165	7180	9471	11653	13788
<b>15.0</b>	0	123	649	1427	3065	5373	7462	9820	12100	14419
<b>13.0</b>	0	124	658	1452	3144	5555	7711	10139	12494	15237
<b>11.0</b>	0	128	665	1473	3212	5711	7927	10419	12860	15936
<b>9.0</b>	0	128	671	1490	3267	5841	8111	10661	13189	16511
<b>7.0</b>	0	128	676	1504	3311	5945	8261	10859	13467	17162
<b>5.0</b>	0	128	683	1514	3341	6022	8376	11011	13679	17793
<b>3.0</b>	0	128	683	1525	3372	6106	8482	11110	13822	18225
<b>1.0</b>	0	128	683	1524	3367	6105	8465	11157	13888	18460
<b>0.0</b>	0	128	683	1524	3364	6105	8457	11152	13895	18500
<b>-1.0</b>	0	128	683	1524	3367	6105	8465	11157	13888	18460
<b>-3.0</b>	0	128	683	1525	3372	6106	8482	11110	13822	18225
<b>-5.0</b>	0	128	683	1514	3341	6022	8376	11011	13679	17793
<b>-7.0</b>	0	128	676	1504	3311	5945	8261	10859	13467	17162
<b>-9.0</b>	0	128	671	1490	3267	5841	8111	10661	13189	16511
<b>-11.0</b>	0	128	665	1473	3212	5711	7927	10419	12860	15936
<b>-13.0</b>	0	124	658	1452	3144	5555	7711	10139	12494	15237
<b>-15.0</b>	0	123	649	1427	3065	5373	7462	9820	12100	14419
<b>-17.0</b>	0	121	640	1399	2974	5165	7180	9471	11653	13788
<b>-19.5</b>	0	119	626	1360	2844	4898	6808	8984	11036	13004
<b>-22.5</b>	0	116	606	1306	2690	4555	6306	8322	10260	12025
<b>-25.5</b>	0	112	584	1253	2527	4166	5776	7605	9399	10980
<b>-29.0</b>	0	108	555	1182	2314	3752	5115	6757	8311	9806
<b>-33.0</b>	0	102	519	1099	2081	3272	4381	5764	7108	8317
<b>-37.5</b>	0	94	478	1000	1813	2795	3620	4676	5773	6766
<b>-42.5</b>	0	85	428	890	1535	2272	2892	3625	4387	5114
<b>-47.5</b>	0	74	373	779	1285	1829	2272	2779	3265	3745
<b>-55.0</b>	0	57	291	610	975	1290	1531	1810	2081	2315
<b>-65.0</b>	0	38	183	385	615	786	899	1008	1107	1187
<b>-75.0</b>	0	23	91	185	295	375	430	480	519	553
<b>-85.0</b>	0	8	24	38	57	75	86	95	102	108
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

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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	0	0	0	0	0	0	0	0	0	0
85.0	112	116	119	122	123	125	129	129	129	129
75.0	579	599	617	629	637	647	656	665	672	683
65.0	1256	1305	1356	1394	1420	1444	1466	1485	1500	1511
55.0	2529	2695	2850	2977	3068	3149	3214	3264	3302	3329
47.5	4164	4537	4868	5136	5347	5534	5696	5825	5929	6007
42.5	5766	6291	6802	7183	7452	7694	7906	8090	8241	8353
37.5	7618	8309	8952	9438	9788	10131	10427	10674	10858	10989
33.0	9367	10218	11015	11664	12133	12534	12905	13234	13502	13701
29.0	10946	11982	12981	13776	14414	15236	15941	16531	17160	17754
25.5	12376	13592	15065	16493	17959	19483	20832	22480	23911	25080
22.5	13623	15375	17744	20286	22827	25514	27981	30727 *	33012 *	34821 *
19.5	15110	17787	21529	26014	29817 *	33890 *	37726 *	41757 *	45336 *	48233 *
17.0	16533	20392	26054	31871 *	36750 *	42509 *	47697 *	53594 *	58820 *	63243 *
15.0	18029	22936	29854 *	36701 *	43484 *	50242 *	57946 *	64926 *	73761 *	81535 *
13.0	19575	25613	33832 *	42359 *	50089 *	59417 *	69929 *	81806 *	94053 *	110147 *
11.0	20863	28050	37633 *	47542 *	57506 *	69498 *	84921 *	105328 *	126660 *	148539 *
9.0	22496	30750 *	41728 *	53417 *	64434 *	80768 *	104688 *	133824 *	168095 *	198204 *
7.0	23950	32972 *	45244 *	58780 *	73408 *	93198 *	126152 *	167912 *	209335 *	237004 *
5.0	25098	34658 *	48050 *	63335 *	81334 *	109686 *	148449 *	199100 *	236978 *	264805 *
3.0	25861	35771 *	50381 *	66889 *	86417 *	121702 *	168716 *	218598 *	258787 *	277513 *
1.0	26285	36455 *	51382 *	68629 *	88488 *	126810 *	178321 *	227442 *	264669 *	285668 *
0.0	26363	36499 *	51229 *	68436 *	87778 *	125074 *	178270 *	228728 *	265724 *	286452 *
-1.0	26285	36455 *	51382 *	68629 *	88488 *	126810 *	178321 *	227442 *	264669 *	285668 *
-3.0	25861	35771 *	50381 *	66889 *	86417 *	121702 *	168716 *	218598 *	258787 *	277513 *
-5.0	25098	34658 *	48050 *	63335 *	81334 *	109686 *	148449 *	199100 *	236978 *	264805 *
-7.0	23950	32972 *	45244 *	58780 *	73408 *	93198 *	126152 *	167912 *	209335 *	237004 *
-9.0	22496	30750 *	41728 *	53417 *	64434 *	80768 *	104688 *	133824 *	168095 *	198204 *
-11.0	20863	28050	37633 *	47542 *	57506 *	69498 *	84921 *	105328 *	126660 *	148539 *
-13.0	19575	25613	33832 *	42359 *	50089 *	59417 *	69929 *	81806 *	94053 *	110147 *
-15.0	18029	22936	29854 *	36701 *	43484 *	50242 *	57946 *	64926 *	73761 *	81535 *
-17.0	16533	20392	26054	31871 *	36750 *	42509 *	47697 *	53594 *	58820 *	63243 *
-19.5	15110	17787	21529	26014	29817 *	33890 *	37726 *	41757 *	45336 *	48233 *
-22.5	13623	15375	17744	20286	22827	25514	27981	30727 *	33012 *	34821 *
-25.5	12376	13592	15065	16493	17959	19483	20832	22480	23911	25080
-29.0	10946	11982	12981	13776	14414	15236	15941	16531	17160	17754
-33.0	9367	10218	11015	11664	12133	12534	12905	13234	13502	13701
-37.5	7618	8309	8952	9438	9788	10131	10427	10674	10858	10989
-42.5	5766	6291	6802	7183	7452	7694	7906	8090	8241	8353
-47.5	4164	4537	4868	5136	5347	5534	5696	5825	5929	6007
-55.0	2529	2695	2850	2977	3068	3149	3214	3264	3302	3329
-65.0	1256	1305	1356	1394	1420	1444	1466	1485	1500	1511
-75.0	579	599	617	629	637	647	656	665	672	683
-85.0	112	116	119	122	123	125	129	129	129	129
-90.0	0	0	0	0	0	0	0	0	0	0

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	0	0
85.0	129	130	130	130	129	129	129	129	129	125
75.0	684	685	686	685	684	683	672	665	656	647
65.0	1524	1527	1529	1527	1524	1511	1500	1485	1466	1444

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**CANDELA TABULATION - (Cont.)**

55.0	3366	3375	3380	3375	3366	3329	3302	3264	3214	3149
47.5	6086	6075	6069	6075	6086	6007	5929	5825	5696	5534
42.5	8469	8476	8480	8476	8469	8353	8241	8090	7906	7694
37.5	11070	11137	11142	11137	11070	10989	10858	10674	10427	10131
33.0	13831	13950	13988	13950	13831	13701	13502	13234	12905	12534
29.0	18152	18539	18692	18539	18152	17754	17160	16531	15941	15236
25.5	25928	26476	26628	26476	25928	25080	23911	22480	20832	19483
22.5	36069 *	36877 *	36996 *	36877 *	36069 *	34821 *	33012 *	30727 *	27981	25514
19.5	50353 *	51569 *	51821 *	51569 *	50353 *	48233 *	45336 *	41757 *	37726 *	33890 *
17.0	67099 *	69353 *	69364 *	69353 *	67099 *	63243 *	58820 *	53594 *	47697 *	42509 *
15.0	87201 *	90326 *	89241 *	90326 *	87201 *	81535 *	73761 *	64926 *	57946 *	50242 *
13.0	122318 *	127942 *	126561 *	127942 *	122318 *	110147 *	94053 *	81806 *	69929 *	59417 *
11.0	168800 *	178466 *	178723 *	178466 *	168800 *	148539 *	126660 *	105328 *	84921 *	69498 *
9.0	217786 *	227241 *	228487 *	227241 *	217786 *	198204 *	168095 *	133824 *	104688 *	80768 *
7.0	258090 *	264684 *	265435 *	264684 *	258090 *	237004 *	209335 *	167912 *	126152 *	93198 *
5.0	277566 *	285893 *	285970 *	285893 *	277566 *	264805 *	236978 *	199100 *	148449 *	109686 *
3.0	288571 *	293134 *	293585 *	293134 *	288571 *	277513 *	258787 *	218598 *	168716 *	121702 *
1.0	293081 *	295600 *	295406 *	295600 *	293081 *	285668 *	264669 *	227442 *	178321 *	126810 *
0.0	293874 *	295503 *	295351 *	295503 *	293874 *	286452 *	265724 *	228728 *	178270 *	125074 *
-1.0	293081 *	295600 *	295406 *	295600 *	293081 *	285668 *	264669 *	227442 *	178321 *	126810 *
-3.0	288571 *	293134 *	293585 *	293134 *	288571 *	277513 *	258787 *	218598 *	168716 *	121702 *
-5.0	277566 *	285893 *	285970 *	285893 *	277566 *	264805 *	236978 *	199100 *	148449 *	109686 *
-7.0	258090 *	264684 *	265435 *	264684 *	258090 *	237004 *	209335 *	167912 *	126152 *	93198 *
-9.0	217786 *	227241 *	228487 *	227241 *	217786 *	198204 *	168095 *	133824 *	104688 *	80768 *
-11.0	168800 *	178466 *	178723 *	178466 *	168800 *	148539 *	126660 *	105328 *	84921 *	69498 *
-13.0	122318 *	127942 *	126561 *	127942 *	122318 *	110147 *	94053 *	81806 *	69929 *	59417 *
-15.0	87201 *	90326 *	89241 *	90326 *	87201 *	81535 *	73761 *	64926 *	57946 *	50242 *
-17.0	67099 *	69353 *	69364 *	69353 *	67099 *	63243 *	58820 *	53594 *	47697 *	42509 *
-19.5	50353 *	51569 *	51821 *	51569 *	50353 *	48233 *	45336 *	41757 *	37726 *	33890 *
-22.5	36069 *	36877 *	36996 *	36877 *	36069 *	34821 *	33012 *	30727 *	27981	25514
-25.5	25928	26476	26628	26476	25928	25080	23911	22480	20832	19483
-29.0	18152	18539	18692	18539	18152	17754	17160	16531	15941	15236
-33.0	13831	13950	13988	13950	13831	13701	13502	13234	12905	12534
-37.5	11070	11137	11142	11137	11070	10989	10858	10674	10427	10131
-42.5	8469	8476	8480	8476	8469	8353	8241	8090	7906	7694
-47.5	6086	6075	6069	6075	6086	6007	5929	5825	5696	5534
-55.0	3366	3375	3380	3375	3366	3329	3302	3264	3214	3149
-65.0	1524	1527	1529	1527	1524	1511	1500	1485	1466	1444
-75.0	684	685	686	685	684	683	672	665	656	647
-85.0	129	130	130	130	129	129	129	129	129	125
-90.0	0	0	0	0	0	0	0	0	0	0

**Vert. 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	0	0	0	0	0	0	0	0	0	0
85.0	123	122	119	116	112	108	102	95	86	75
75.0	637	629	617	599	579	553	519	480	430	375
65.0	1420	1394	1356	1305	1256	1187	1107	1008	899	786
55.0	3068	2977	2850	2695	2529	2315	2081	1810	1531	1290
47.5	5347	5136	4868	4537	4164	3745	3265	2779	2272	1829
42.5	7452	7183	6802	6291	5766	5114	4387	3625	2892	2272
37.5	9788	9438	8952	8309	7618	6766	5773	4676	3620	2795
33.0	12133	11664	11015	10218	9367	8317	7108	5764	4381	3272
29.0	14414	13776	12981	11982	10946	9806	8311	6757	5115	3752
25.5	17959	16493	15065	13592	12376	10980	9399	7605	5776	4166

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**CANDELA TABULATION - (Cont.)**

22.5	22827	20286	17744	15375	13623	12025	10260	8322	6306	4555
19.5	29817 *	26014	21529	17787	15110	13004	11036	8984	6808	4898
17.0	36750 *	31871 *	26054	20392	16533	13788	11653	9471	7180	5165
15.0	43484 *	36701 *	29854 *	22936	18029	14419	12100	9820	7462	5373
13.0	50089 *	42359 *	33832 *	25613	19575	15237	12494	10139	7711	5555
11.0	57506 *	47542 *	37633 *	28050	20863	15936	12860	10419	7927	5711
9.0	64434 *	53417 *	41728 *	30750 *	22496	16511	13189	10661	8111	5841
7.0	73408 *	58780 *	45244 *	32972 *	23950	17162	13467	10859	8261	5945
5.0	81334 *	63335 *	48050 *	34658 *	25098	17793	13679	11011	8376	6022
3.0	86417 *	66889 *	50381 *	35771 *	25861	18225	13822	11110	8482	6106
1.0	88488 *	68629 *	51382 *	36455 *	26285	18460	13888	11157	8465	6105
0.0	87778 *	68436 *	51229 *	36499 *	26363	18500	13895	11152	8457	6105
-1.0	88488 *	68629 *	51382 *	36455 *	26285	18460	13888	11157	8465	6105
-3.0	86417 *	66889 *	50381 *	35771 *	25861	18225	13822	11110	8482	6106
-5.0	81334 *	63335 *	48050 *	34658 *	25098	17793	13679	11011	8376	6022
-7.0	73408 *	58780 *	45244 *	32972 *	23950	17162	13467	10859	8261	5945
-9.0	64434 *	53417 *	41728 *	30750 *	22496	16511	13189	10661	8111	5841
-11.0	57506 *	47542 *	37633 *	28050	20863	15936	12860	10419	7927	5711
-13.0	50089 *	42359 *	33832 *	25613	19575	15237	12494	10139	7711	5555
-15.0	43484 *	36701 *	29854 *	22936	18029	14419	12100	9820	7462	5373
-17.0	36750 *	31871 *	26054	20392	16533	13788	11653	9471	7180	5165
-19.5	29817 *	26014	21529	17787	15110	13004	11036	8984	6808	4898
-22.5	22827	20286	17744	15375	13623	12025	10260	8322	6306	4555
-25.5	17959	16493	15065	13592	12376	10980	9399	7605	5776	4166
-29.0	14414	13776	12981	11982	10946	9806	8311	6757	5115	3752
-33.0	12133	11664	11015	10218	9367	8317	7108	5764	4381	3272
-37.5	9788	9438	8952	8309	7618	6766	5773	4676	3620	2795
-42.5	7452	7183	6802	6291	5766	5114	4387	3625	2892	2272
-47.5	5347	5136	4868	4537	4164	3745	3265	2779	2272	1829
-55.0	3068	2977	2850	2695	2529	2315	2081	1810	1531	1290
-65.0	1420	1394	1356	1305	1256	1187	1107	1008	899	786
-75.0	637	629	617	599	579	553	519	480	430	375
-85.0	123	122	119	116	112	108	102	95	86	75
-90.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0
85.0	57	38	24	8	0
75.0	295	185	91	23	0
65.0	615	385	183	38	0
55.0	975	610	291	57	0
47.5	1285	779	373	74	0
42.5	1535	890	428	85	0
37.5	1813	1000	478	94	0
33.0	2081	1099	519	102	0
29.0	2314	1182	555	108	0
25.5	2527	1253	584	112	0
22.5	2690	1306	606	116	0
19.5	2844	1360	626	119	0
17.0	2974	1399	640	121	0
15.0	3065	1427	649	123	0
13.0	3144	1452	658	124	0
11.0	3212	1473	665	128	0
9.0	3267	1490	671	128	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	3311	1504	676	128	0
<b>5.0</b>	3341	1514	683	128	0
<b>3.0</b>	3372	1525	683	128	0
<b>1.0</b>	3367	1524	683	128	0
<b>0.0</b>	3364	1524	683	128	0
<b>-1.0</b>	3367	1524	683	128	0
<b>-3.0</b>	3372	1525	683	128	0
<b>-5.0</b>	3341	1514	683	128	0
<b>-7.0</b>	3311	1504	676	128	0
<b>-9.0</b>	3267	1490	671	128	0
<b>-11.0</b>	3212	1473	665	128	0
<b>-13.0</b>	3144	1452	658	124	0
<b>-15.0</b>	3065	1427	649	123	0
<b>-17.0</b>	2974	1399	640	121	0
<b>-19.5</b>	2844	1360	626	119	0
<b>-22.5</b>	2690	1306	606	116	0
<b>-25.5</b>	2527	1253	584	112	0
<b>-29.0</b>	2314	1182	555	108	0
<b>-33.0</b>	2081	1099	519	102	0
<b>-37.5</b>	1813	1000	478	94	0
<b>-42.5</b>	1535	890	428	85	0
<b>-47.5</b>	1285	779	373	74	0
<b>-55.0</b>	975	610	291	57	0
<b>-65.0</b>	615	385	183	38	0
<b>-75.0</b>	295	185	91	23	0
<b>-85.0</b>	57	38	24	8	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 42326.36

Total Field Lumens (one side of beam only) = 29675.59

\* 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	0.10	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.22
75	1.24	2.48	2.47	2.44	2.41	2.37	2.32	2.26	2.21	2.69
65	3.37	6.73	6.69	6.61	6.52	6.41	6.28	6.13	5.97	7.22
55	7.47	14.90	14.78	14.60	14.40	14.14	13.81	13.42	12.97	15.51
47.5	10.79	21.58	21.41	21.09	20.72	20.25	19.66	18.95	18.15	21.47
42.5	11.08	22.15	21.97	21.61	21.18	20.64	19.98	19.23	18.39	21.69
37.5	14.94	29.80	29.54	29.11	28.55	27.82	26.93	25.91	24.79	29.27
33	17.21	34.24	33.90	33.43	32.76	31.88	30.84	29.65	28.34	33.41
29	19.85	39.25	38.55	37.63	36.45	35.16	33.74	32.11	30.44	35.75
25.5	24.08	47.46	46.22	44.48	42.27	39.78	37.28	34.70	32.10	36.90
22.5	29.01 *	57.24 *	55.56 *	53.08	49.83	45.91	41.93	38.03	34.07	37.74
19.5	40.50 *	79.85 *	77.25 *	73.34 *	68.24 *	62.18 *	55.91 *	49.67	43.46	46.41
17	46.09 *	90.71 *	86.95 *	81.65 *	75.22 *	67.78 *	60.27 *	52.82 *	45.55 *	47.67
15	48.47 *	95.58 *	90.88 *	84.02 *	75.74 *	67.24 *	59.11 *	51.13 *	43.57 *	45.01 *
13	66.11 *	130.23 *	121.91 *	108.90 *	94.88 *	82.38 *	70.77 *	60.07 *	50.55 *	51.62 *
11	93.16 *	181.90 *	167.06 *	145.23 *	123.02 *	102.59 *	84.55 *	69.90 *	57.83 *	58.35 *
9	123.81 *	241.19 *	222.83 *	194.33 *	161.05 *	128.62 *	101.26 *	80.45 *	65.27 *	65.20 *
7	150.15 *	294.61 *	276.84 *	246.18 *	204.86 *	159.76 *	120.61 *	92.16 *	73.21 *	72.02 *
5	167.83 *	330.67 *	315.24 *	287.22 *	245.33 *	192.47 *	142.26 *	105.70 *	81.06 *	77.89 *
3	176.45 *	348.61 *	336.82 *	314.47 *	275.53 *	220.44 *	163.44 *	117.97 *	87.25 *	82.68 *
1	179.37 *	356.28 *	347.87 *	329.18 *	292.44 *	237.90 *	177.44 *	125.14 *	90.89 *	85.80 *
0	90.00 *	179.31 *	176.10 *	166.99 *	148.79 *	121.90 *	90.65 *	63.27 *	45.87 *	43.33 *
-1	90.00 *	179.31 *	176.10 *	166.99 *	148.79 *	121.90 *	90.65 *	63.27 *	45.87 *	43.33 *
	179.37 *	356.28 *	347.87 *	329.18 *	292.44 *	237.90 *	177.44 *	125.14 *	90.89 *	85.80 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	176.45 *	348.61 *	336.82 *	314.47 *	275.53 *	220.44 *	163.44 *	117.97 *	87.25 *	82.68 *
<b>-5</b>	167.83 *	330.67 *	315.24 *	287.22 *	245.33 *	192.47 *	142.26 *	105.70 *	81.06 *	77.89 *
<b>-7</b>	150.15 *	294.61 *	276.84 *	246.18 *	204.86 *	159.76 *	120.61 *	92.16 *	73.21 *	72.02 *
<b>-9</b>	123.81 *	241.19 *	222.83 *	194.33 *	161.05 *	128.62 *	101.26 *	80.45 *	65.27 *	65.20 *
<b>-11</b>	93.16 *	181.90 *	167.06 *	145.23 *	123.02 *	102.59 *	84.55 *	69.90 *	57.83 *	58.35 *
<b>-13</b>	66.11 *	130.23 *	121.91 *	108.90 *	94.88 *	82.38 *	70.77 *	60.07 *	50.55 *	51.62 *
<b>-15</b>	48.47 *	95.58 *	90.88 *	84.02 *	75.74 *	67.24 *	59.11 *	51.13 *	43.57 *	45.01 *
<b>-17</b>	46.09 *	90.71 *	86.95 *	81.65 *	75.22 *	67.78 *	60.27 *	52.82 *	45.55 *	47.67
<b>-19.5</b>	40.50 *	79.85 *	77.25 *	73.34 *	68.24 *	62.18 *	55.91 *	49.67	43.46	46.41
<b>-22.5</b>	29.01 *	57.24 *	55.56 *	53.08	49.83	45.91	41.93	38.03	34.07	37.74
<b>-25.5</b>	24.08	47.46	46.22	44.48	42.27	39.78	37.28	34.70	32.10	36.90
<b>-29</b>	19.85	39.25	38.55	37.63	36.45	35.16	33.74	32.11	30.44	35.75
<b>-33</b>	17.21	34.24	33.90	33.43	32.76	31.88	30.84	29.65	28.34	33.41
<b>-37.5</b>	14.94	29.80	29.54	29.11	28.55	27.82	26.93	25.91	24.79	29.27
<b>-42.5</b>	11.08	22.15	21.97	21.61	21.18	20.64	19.98	19.23	18.39	21.69
<b>-47.5</b>	10.79	21.58	21.41	21.09	20.72	20.25	19.66	18.95	18.15	21.47
<b>-55</b>	7.47	14.90	14.78	14.60	14.40	14.14	13.81	13.42	12.97	15.51
<b>-65</b>	3.37	6.73	6.69	6.61	6.52	6.41	6.28	6.13	5.97	7.22
<b>-75</b>	1.24	2.48	2.47	2.44	2.41	2.37	2.32	2.26	2.21	2.69
<b>-85</b>	0.10	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.22
<b>-90</b>										
<b>Total</b>	2642.16	5209.9	4982.05	4591.62	4040.81	3375.62	2718.45	2177.69	1784.23	1835.68

**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>										
	0.25	0.24	0.26	0.27	0.28	0.26	0.22	0.24	0.18	0.08
<b>85</b>	3.09	2.93	3.20	3.35	3.35	3.18	2.60	2.87	2.19	0.88
<b>75</b>	8.27	7.80	8.47	8.79	8.71	8.21	6.70	7.40	5.63	2.20
<b>65</b>	17.50	16.25	17.26	17.46	16.80	15.30	12.13	13.10	9.83	3.82
<b>55</b>	23.91	21.79	22.66	22.33	20.85	18.35	13.97	14.41	10.41	4.01

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

<b>47.5</b>										
	23.99	21.66	22.26	21.55	19.66	16.87	12.47	12.36	8.54	3.21
<b>42.5</b>	32.37	29.20	29.93	28.77	25.83	21.60	15.58	15.03	9.96	3.64
<b>37.5</b>	36.94	33.35	34.19	32.85	29.36	24.20	17.04	16.01	10.26	3.62
<b>33</b>	39.41	35.49	36.43	35.03	31.27	25.68	17.79	16.32	10.16	3.49
<b>29</b>	40.02	35.71	36.58	35.17	31.41	25.77	17.72	15.95	9.68	3.25
<b>25.5</b>	39.52	34.41	34.83	33.41	29.87	24.50	16.80	14.94	8.87	2.93
<b>22.5</b>	46.34	38.75	38.21	36.28	32.40	26.61	18.22	16.06	9.36	3.04
<b>19.5</b>	45.72	36.43	34.61	32.29	28.78	23.65	16.18	14.18	8.15	2.62
<b>17</b>	42.33	32.51	29.74	27.13	24.09	19.79	13.55	11.84	6.74	2.14
<b>15</b>	47.87	35.96	31.87	28.32	24.93	20.49	14.05	12.24	6.91	2.18
<b>13</b>	53.37 *	39.28	33.93	29.51	25.69	21.11	14.48	12.59	7.06	2.21
<b>11</b>	58.93 *	42.64	35.92	30.54	26.37	21.65	14.85	12.88	7.18	2.24
<b>9</b>	64.28 *	45.98	37.96	31.50	26.96	22.10	15.16	13.12	7.28	2.26
<b>7</b>	68.64 *	48.70	39.80	32.42	27.43	22.46	15.40	13.30	7.35	2.28
<b>5</b>	72.02 *	50.66 *	41.21	33.16	27.77	22.73	15.60	13.46	7.42	2.29
<b>3</b>	74.21 *	51.91 *	42.09	33.62	27.97	22.87	15.70	13.54	7.44	2.30
<b>1</b>	37.44 *	26.21 *	21.23	16.90	14.02	11.44	7.84	6.77	3.72	1.15
<b>0</b>	37.44 *	26.21 *	21.23	16.90	14.02	11.44	7.84	6.77	3.72	1.15
<b>-1</b>	74.21 *	51.91 *	42.09	33.62	27.97	22.87	15.70	13.54	7.44	2.30
<b>-3</b>	72.02 *	50.66 *	41.21	33.16	27.77	22.73	15.60	13.46	7.42	2.29
<b>-5</b>	68.64 *	48.70	39.80	32.42	27.43	22.46	15.40	13.30	7.35	2.28
<b>-7</b>	64.28 *	45.98	37.96	31.50	26.96	22.10	15.16	13.12	7.28	2.26
<b>-9</b>	58.93 *	42.64	35.92	30.54	26.37	21.65	14.85	12.88	7.18	2.24
<b>-11</b>	53.37 *	39.28	33.93	29.51	25.69	21.11	14.48	12.59	7.06	2.21
<b>-13</b>	47.87	35.96	31.87	28.32	24.93	20.49	14.05	12.24	6.91	2.18
<b>-15</b>	42.33	32.51	29.74	27.13	24.09	19.79	13.55	11.84	6.74	2.14
<b>-17</b>	45.72	36.43	34.61	32.29	28.78	23.65	16.18	14.18	8.15	2.62
<b>-19.5</b>	46.34	38.75	38.21	36.28	32.40	26.61	18.22	16.06	9.36	3.04

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	39.52	34.41	34.83	33.41	29.87	24.50	16.80	14.94	8.87	2.93
<b>-25.5</b>	40.02	35.71	36.58	35.17	31.41	25.77	17.72	15.95	9.68	3.25
<b>-29</b>	39.41	35.49	36.43	35.03	31.27	25.68	17.79	16.32	10.16	3.49
<b>-33</b>	36.94	33.35	34.19	32.85	29.36	24.20	17.04	16.01	10.26	3.62
<b>-37.5</b>	32.37	29.20	29.93	28.77	25.83	21.60	15.58	15.03	9.96	3.64
<b>-42.5</b>	23.99	21.66	22.26	21.55	19.66	16.87	12.47	12.36	8.54	3.21
<b>-47.5</b>	23.91	21.79	22.66	22.33	20.85	18.35	13.97	14.41	10.41	4.01
<b>-55</b>	17.50	16.25	17.26	17.46	16.80	15.30	12.13	13.10	9.83	3.82
<b>-65</b>	8.27	7.80	8.47	8.79	8.71	8.21	6.70	7.40	5.63	2.20
<b>-75</b>	3.09	2.93	3.20	3.35	3.35	3.18	2.60	2.87	2.19	0.88
<b>-85</b>	0.25	0.24	0.26	0.27	0.28	0.26	0.22	0.24	0.18	0.08
<b>-90</b>										
<b>Total</b>	1752.88	1375.73	1265.32	1141.35	1007.55	837.65	588.12	537.25	328.63	111.65

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
<b>90</b>			
	0.02	0.00	4.14
<b>85</b>			
	0.19	0.01	50.73
<b>75</b>			
	0.44	0.01	134.56
<b>65</b>			
	0.75	0.02	276.25
<b>55</b>			
	0.79	0.02	367.57
<b>47.5</b>			
	0.63	0.01	361.12
<b>42.5</b>			
	0.72	0.01	479.28
<b>37.5</b>			
	0.71	0.01	544.22
<b>33</b>			
	0.68	0.01	590.68
<b>29</b>			
	0.63	0.01	637.19
<b>25.5</b>			
	0.56	0.01	683.05
<b>22.5</b>			
	0.58	0.01	862.69
<b>19.5</b>			
	0.50	0.01	897.85
<b>17</b>			
	0.40	0.01	871.04

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**LUMENS TABULATION - (Cont.)**

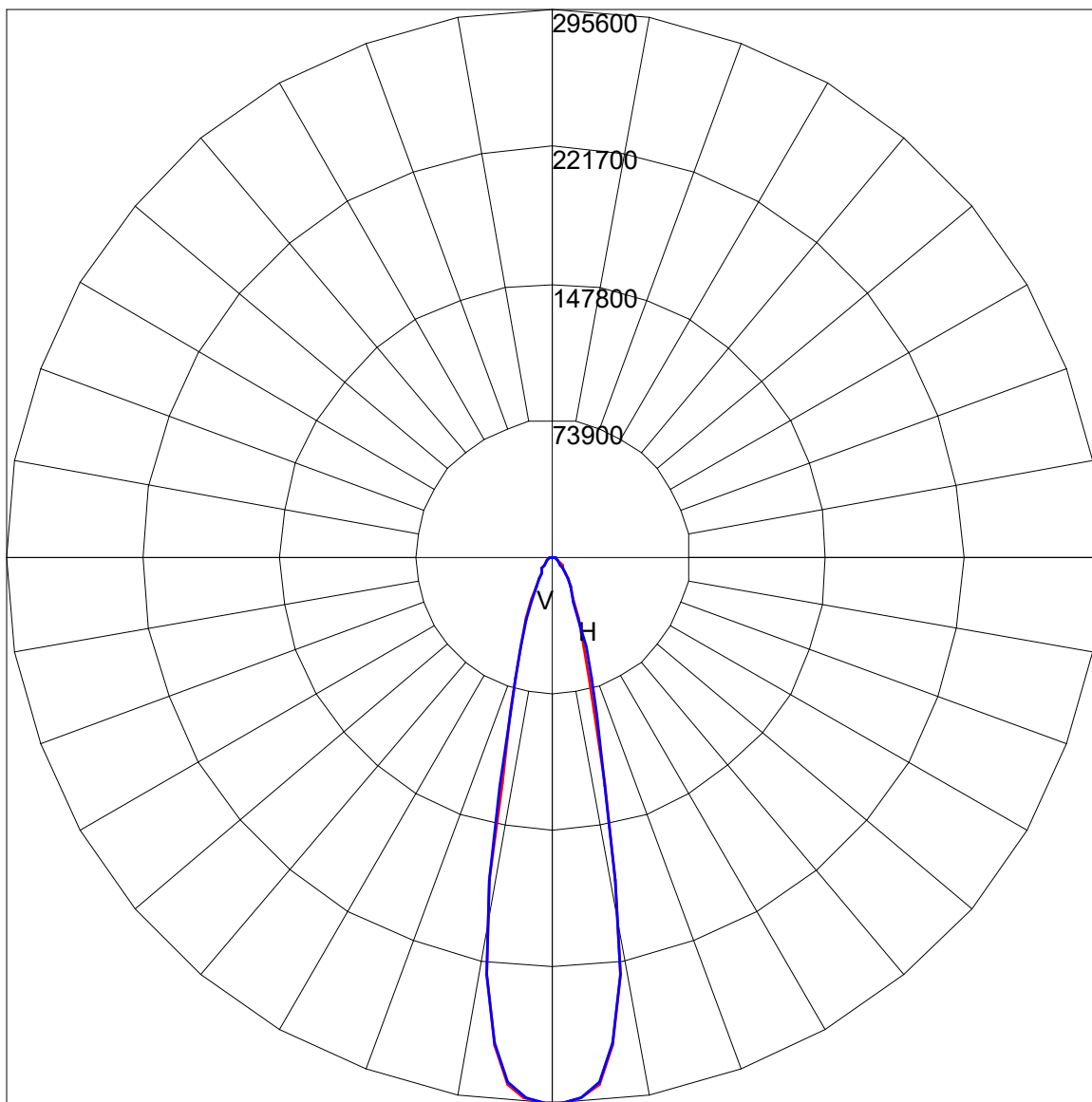
<b>15</b>			
	0.41	0.01	1062.65
<b>13</b>			
	0.42	0.01	1323.24
<b>11</b>			
	0.42	0.01	1637.63
<b>9</b>			
	0.42	0.01	1957.42
<b>7</b>			
	0.43	0.01	2223.89
<b>5</b>			
	0.43	0.01	2410.43
<b>3</b>			
	0.43	0.01	2514.4
<b>1</b>			
	0.21	0.00	1273.15
<b>0</b>			
	0.21	0.00	1273.15
<b>-1</b>			
	0.43	0.01	2514.4
<b>-3</b>			
	0.43	0.01	2410.43
<b>-5</b>			
	0.43	0.01	2223.89
<b>-7</b>			
	0.42	0.01	1957.42
<b>-9</b>			
	0.42	0.01	1637.63
<b>-11</b>			
	0.42	0.01	1323.24
<b>-13</b>			
	0.41	0.01	1062.65
<b>-15</b>			
	0.40	0.01	871.04
<b>-17</b>			
	0.50	0.01	897.85
<b>-19.5</b>			
	0.58	0.01	862.69
<b>-22.5</b>			
	0.56	0.01	683.05
<b>-25.5</b>			
	0.63	0.01	637.19
<b>-29</b>			
	0.68	0.01	590.68
<b>-33</b>			
	0.71	0.01	544.22
<b>-37.5</b>			
	0.72	0.01	479.28
<b>-42.5</b>			
	0.63	0.01	361.12
<b>-47.5</b>			
	0.79	0.02	367.57
<b>-55</b>			
	0.75	0.02	276.25
<b>-65</b>			
	0.44	0.01	134.56

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50.IES**

**LUMENS TABULATION - (Cont.)**

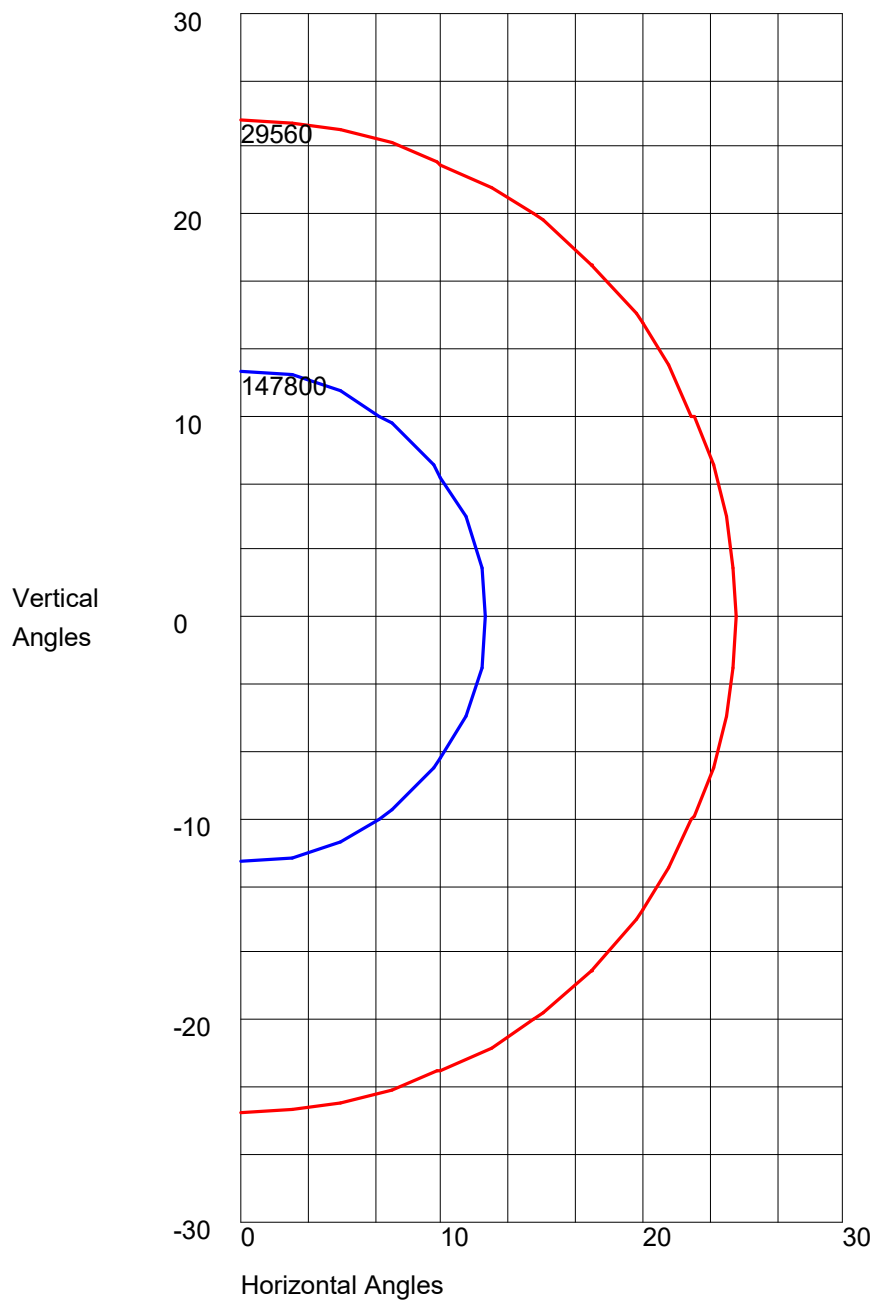
<b>-75</b>	0.19	0.01	50.73
<b>-85</b>	0.02	0.00	4.14
<b>-90</b>			
<b>Total</b>	21.55	0.44	42326.33

AXIAL CANDELA DISPLAY



Maximum Candela = 295600 Located At Horizontal Angle =-1, Vertical Angle =-1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 295600 Located At Horizontal Angle =-1, Vertical Angle =-1  
50% Maximum Candela = 147800  
10% Maximum Candela = 29560