



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13130
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 12/16/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-100L-MF-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	248578
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	32.1
Vertical Beam Angle (50%)	32.2
Horizontal Field Angle (10%)	60.4
Vertical Field Angle (10%)	59.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	46125
Beam Efficiency	N.A.
Field Lumens	79537
Field Efficiency	N.A.
Spill Lumens	18997
Luminaire Lumens	98534
Total Efficiency	N.A.
Total Luminaire Watts	767
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	70	85	0
75	481	75	2
65	1222	65	519
55	3031	55	1535
47.5	5120	47.5	3218
42.5	7512	42.5	5436
37.5	12094	37.5	9326
33	18534	33	15233
29	27291	29	22634
25.5	40927	25.5	33960
22.5	58274	22.5	49703
19.5	81886	19.5	71953
17	110173	17	99236
15	140875	15	131801
13	170307	13	163008
11	194863	11	188809
9	214504	9	209760
7	229691	7	226289
5	241388	5	238702
3	246758	3	245625
1	248160	1	247862
0	248200	0	248200
-1	248160	-1	248578
-3	246758	-3	248429
-5	241388	-5	245566
-7	229691	-7	233869
-9	214504	-9	219487
-11	194863	-11	201435
-13	170307	-13	178679
-15	140875	-15	150136
-17	110173	-17	119982
-19.5	81886	-19.5	89645
-22.5	58274	-22.5	62461
-25.5	40927	-25.5	44841
-29	27291	-29	29699
-33	18534	-33	19872
-37.5	12094	-37.5	13141
-42.5	7512	-42.5	8164
-47.5	5120	-47.5	5636
-55	3031	-55	3449
-65	1222	-65	1506
-75	481	-75	670
-85	70	-85	157
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 248578

Beam Edge = 124289 Cd (50% of Max.)

Field Edge = 24857.8 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>-90.0</u>	<u>-85.0</u>	<u>-75.0</u>	<u>-65.0</u>	<u>-55.0</u>	<u>-47.5</u>	<u>-42.5</u>	<u>-37.5</u>	<u>-33.0</u>	<u>-29.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	3	6	8	8	8	7	6	4	3
75.0	0	8	33	68	94	103	107	105	97	91
65.0	0	14	81	162	245	294	328	358	392	420
55.0	0	24	144	299	468	617	730	852	976	1078
47.5	0	33	197	425	726	1027	1294	1699	1849	2164
42.5	0	40	239	517	936	1415	1888	2278	2860	3258
37.5	0	45	279	616	1183	1980	2434	3289	3909	4520
33.0	0	50	314	713	1447	2288	3239	4167	5018	6137
29.0	0	54	344	799	1684	2783	3923	4988	6376	8190
25.5	0	57	369	876	1925	3263	4461	5839	7865	10435
22.5	0	59	389	934	2111	3623	4886	6678	9352	12719
19.5	0	62	407	994	2282	3924	5322	7644	10913	15106
17.0	0	63	421	1040	2415	4142	5659	8453	12396	17061
15.0	0	64	431	1073	2518	4331	5977	9070	13585	18562
13.0	0	65	440	1103	2618	4499	6299	9792	14673	20393
11.0	0	68	449	1131	2712	4648	6597	10426	15739	21987
9.0	0	69	456	1154	2801	4777	6865	10930	16670	23335
7.0	0	69	463	1174	2882	4886	7100	11339	17383	24675
5.0	0	69	472	1192	2937	4976	7299	11650	17925	25972 *
3.0	0	70	476	1209	2996	5067	7471	11883	18295	26952 *
1.0	0	70	479	1218	3019	5102	7498	12059	18494	27288 *
0.0	0	70	481	1222	3031	5120	7512	12094	18534	27291 *
-1.0	0	70	483	1226	3039	5127	7532	12193	18723	27544 *
-3.0	0	71	485	1235	3055	5141	7573	12276	18966	27690 *
-5.0	0	71	488	1234	3035	5098	7477	12199	18718	26988 *
-7.0	0	71	486	1233	3016	5073	7403	11969	18262	25901 *
-9.0	0	72	485	1228	2975	5033	7281	11632	17649	24718
-11.0	0	72	483	1219	2923	4973	7111	11189	16864	23551
-13.0	0	70	481	1207	2861	4893	6894	10616	15938	22178
-15.0	0	69	478	1190	2792	4791	6623	9951	14961	20615
-17.0	0	69	473	1171	2714	4669	6341	9429	13851	19141
-19.5	0	68	467	1142	2606	4521	6067	8707	12439	17248
-22.5	0	66	456	1100	2472	4308	5694	7803	10915	14921
-25.5	0	65	444	1058	2327	4046	5350	7001	9439	12563
-29.0	0	62	427	1000	2139	3586	4904	6178	7893	10229
-33.0	0	59	404	932	1924	3050	4317	5398	6489	7866
-37.5	0	55	374	850	1660	2680	3501	4589	5394	6209
-42.5	0	49	336	760	1408	2205	2814	3558	4382	4982
-47.5	0	43	293	671	1190	1719	2219	2773	3198	3733
-55.0	0	32	233	532	894	1231	1471	1772	2041	2297
-65.0	0	21	147	337	564	727	842	966	1085	1173
-75.0	0	13	70	166	277	366	426	478	521	556
-85.0	0	4	18	39	66	86	100	114	124	132
-90.0	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	1	1	1	0	0	0	0	0	0	0
75.0	83	75	66	57	49	42	34	25	17	11
65.0	443	456	472	484	491	498	506	512	516	515
55.0	1195	1265	1321	1365	1389	1404	1430	1463	1492	1517
47.5	2441	2628	2788	2892	2962	3015	3053	3117	3162	3177
42.5	3585	3887	4205	4423	4633	4835	5005	5150	5259	5330
37.5	5175	5780	6496	7069	7473	7942	8365	8730	8975	9120
33.0	7375	8594	9839	10920	11716	12485	13302	14027	14551	14884
29.0	10271	12192	14152	15758	16936	18110	19231	20197	21122	21809
25.5	13288	15933	18640	20845	22904	24856	26484 *	28957 *	31119 *	32521 *
22.5	16242	19536	23361	27058 *	30674 *	34248 *	37401 *	41517 *	44936 *	47427 *
19.5	19222	23557	29540 *	36284 *	41774 *	47545 *	53176 *	59389 *	64131 *	67318 *
17.0	21900	27773 *	36912 *	45799 *	52987 *	61166 *	68787 *	78167 *	86056 *	91038 *
15.0	24758	32366 *	43225 *	53657 *	63490 *	73289 *	84657 *	95499 *	109553 *	119590 *
13.0	27719 *	37208 *	49912 *	62634 *	74153 *	88328 *	103209 *	119648 *	135708 *	148721 *
11.0	30242 *	41621 *	56475 *	71307 *	87696 *	105430 *	125415 *	144290 *	161784 *	176036 *
9.0	33357 *	46529 *	63577 *	81919 *	99944 *	124286 *	146816 *	167662 *	184226 *	198010 *
7.0	36208 *	50765 *	69661 *	91087 *	113550 *	139538 *	165599 *	186036 *	203628 *	214563 *
5.0	38564 *	54146 *	74513 *	98373 *	124808 *	152666 *	179693 *	200428 *	215672 *	227742 *
3.0	40334 *	56593 *	78743 *	104866 *	133718 *	162265 *	187723 *	209184 *	225099 *	235642 *
1.0	40969 *	58108 *	81350 *	109298 *	140310 *	169187 *	193806 *	213585 *	228959 *	241145 *
0.0	40927 *	58274 *	81886 *	110173 *	140875 *	170307 *	194863 *	214504 *	229691 *	241388 *
-1.0	41300 *	58487 *	81895 *	109903 *	140010 *	168828 *	194198 *	214484 *	229654 *	242095 *
-3.0	41308 *	57767 *	80385 *	107337 *	136449 *	166289 *	192022 *	211990 *	227078 *	237975 *
-5.0	40116 *	56124 *	77149 *	102631 *	130659 *	159456 *	185634 *	205754 *	220336 *	231273 *
-7.0	38268 *	53538 *	73799 *	97413 *	121969 *	148500 *	174260 *	194459 *	210326 *	221445 *
-9.0	35779 *	50007 *	68956 *	89277 *	108229 *	132888 *	157049 *	178928 *	195474 *	207965 *
-11.0	32875 *	45472 *	62324 *	78994 *	96140 *	115616 *	137905 *	158894 *	176973 *	189396 *
-13.0	30399 *	41566 *	56107 *	70480 *	83334 *	99508 *	116797 *	136302 *	152684 *	164326 *
-15.0	27695 *	37179 *	49675 *	61469 *	72597 *	83967 *	97715 *	110349 *	125269 *	136308 *
-17.0	24965 *	32814 *	43340 *	53564 *	61934 *	71496 *	80411 *	91040 *	100560 *	108130 *
-19.5	22126	27848 *	35599 *	43759 *	50495 *	57432 *	64083 *	71098 *	77041 *	81712 *
-22.5	18889	22957	27991 *	33377 *	38311 *	43285 *	47860 *	52716 *	56810 *	59956 *
-25.5	15936	18978	22265	25128 *	28342 *	31738 *	34768 *	38106 *	41002 *	43163 *
-29.0	12794	15083	17473	19377	20879	22629	24336	25890 *	27498 *	28794 *
-33.0	9573	11124	12718	14212	15336	16377	17404	18356	19105	19643
-37.5	7088	7955	8930	9716	10299	11018	11666	12221	12595	12868
-42.5	5469	5881	6326	6649	6939	7221	7459	7681	7879	8035
-47.5	4226	4570	4871	5052	5169	5271	5359	5446	5513	5560
-55.0	2500	2641	2784	2931	3039	3138	3228	3306	3372	3425
-65.0	1246	1295	1343	1378	1402	1425	1447	1466	1482	1495
-75.0	587	610	625	635	640	646	651	655	659	664
-85.0	138	143	147	150	153	154	158	158	157	157
-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	0	0	0	0	0	0	0	0	0	0
75.0	7	4	2	4	7	11	17	25	34	42
65.0	520	519	519	519	520	515	516	512	506	498

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CANDELA TABULATION - (Cont.)

55.0	1539	1536	1535	1536	1539	1517	1492	1463	1430	1404
47.5	3187	3208	3218	3208	3187	3177	3162	3117	3053	3015
42.5	5427	5433	5436	5433	5427	5330	5259	5150	5005	4835
37.5	9347	9363	9326	9363	9347	9120	8975	8730	8365	7942
33.0	15236	15288	15233	15288	15236	14884	14551	14027	13302	12485
29.0	22374	22671	22634	22671	22374	21809	21122	20197	19231	18110
25.5	33410 *	34068 *	33960 *	34068 *	33410 *	32521 *	31119 *	28957 *	26484 *	24856
22.5	49107 *	49846 *	49703 *	49846 *	49107 *	47427 *	44936 *	41517 *	37401 *	34248 *
19.5	70764 *	72013 *	71953 *	72013 *	70764 *	67318 *	64131 *	59389 *	53176 *	47545 *
17.0	97033 *	98794 *	99236 *	98794 *	97033 *	91038 *	86056 *	78167 *	68787 *	61166 *
15.0	126959 *	129474 *	131801 *	129474 *	126959 *	119590 *	109553 *	95499 *	84657 *	73289 *
13.0	157328 *	160019 *	163008 *	160019 *	157328 *	148721 *	135708 *	119648 *	103209 *	88328 *
11.0	183927 *	187099 *	188809 *	187099 *	183927 *	176036 *	161784 *	144290 *	125415 *	105430 *
9.0	205800 *	209071 *	209760 *	209071 *	205800 *	198010 *	184226 *	167662 *	146816 *	124286 *
7.0	222674 *	225604 *	226289 *	225604 *	222674 *	214563 *	203628 *	186036 *	165599 *	139538 *
5.0	234454 *	238706 *	238702 *	238706 *	234454 *	227742 *	215672 *	200428 *	179693 *	152666 *
3.0	242503 *	245182 *	245625 *	245182 *	242503 *	235642 *	225099 *	209184 *	187723 *	162265 *
1.0	246230 *	247975 *	247862 *	247975 *	246230 *	241145 *	228959 *	213585 *	193806 *	169187 *
0.0	246758 *	248160 *	248200 *	248160 *	246758 *	241388 *	229691 *	214504 *	194863 *	170307 *
-1.0	246632 *	248397 *	248578 *	248397 *	246632 *	242095 *	229654 *	214484 *	194198 *	168829 *
-3.0	245531 *	248065 *	248429 *	248065 *	245531 *	237975 *	227078 *	211990 *	192022 *	166289 *
-5.0	239631 *	245526 *	245566 *	245526 *	239631 *	231273 *	220336 *	205754 *	185634 *	159456 *
-7.0	229559 *	233596 *	233869 *	233596 *	229559 *	221445 *	210326 *	194459 *	174260 *	148500 *
-9.0	215450 *	219145 *	219487 *	219145 *	215450 *	207965 *	195474 *	178928 *	157049 *	132888 *
-11.0	196221 *	200970 *	201435 *	200970 *	196221 *	189396 *	176973 *	158894 *	137905 *	115616 *
-13.0	172188 *	177797 *	178679 *	177797 *	172188 *	164326 *	152684 *	136302 *	116797 *	99508 *
-15.0	143673 *	148604 *	150136 *	148604 *	143673 *	136308 *	125269 *	110349 *	97715 *	83967 *
-17.0	114193 *	118261 *	119982 *	118261 *	114193 *	108130 *	100560 *	91040 *	80411 *	71496 *
-19.5	85758 *	88552 *	89645 *	88552 *	85758 *	81712 *	77041 *	71098 *	64083 *	57432 *
-22.5	62033 *	62853 *	62461 *	62853 *	62033 *	59956 *	56810 *	52716 *	47860 *	43285 *
-25.5	44625 *	45035 *	44841 *	45035 *	44625 *	43163 *	41002 *	38106 *	34768 *	31738 *
-29.0	29670 *	29839 *	29699 *	29839 *	29670 *	28794 *	27498 *	25890 *	24336	22629
-33.0	20001	19972	19872	19972	20001	19643	19105	18356	17404	16377
-37.5	13040	13147	13141	13147	13040	12868	12595	12221	11666	11018
-42.5	8192	8173	8164	8173	8192	8035	7879	7681	7459	7221
-47.5	5617	5630	5636	5630	5617	5560	5513	5446	5359	5271
-55.0	3464	3454	3449	3454	3464	3425	3372	3306	3228	3138
-65.0	1506	1506	1506	1506	1506	1495	1482	1466	1447	1425
-75.0	666	669	670	669	666	664	659	655	651	646
-85.0	157	157	157	157	157	157	157	158	158	154
-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	0	0	1	1	1	3	4	6	7	8
75.0	49	57	66	75	83	91	97	105	107	103
65.0	491	484	472	456	443	420	392	358	328	294
55.0	1389	1365	1321	1265	1195	1078	976	852	730	617
47.5	2962	2892	2788	2628	2441	2164	1849	1699	1294	1027
42.5	4633	4423	4205	3887	3585	3258	2860	2278	1888	1415
37.5	7473	7069	6496	5780	5175	4520	3909	3289	2434	1980
33.0	11716	10920	9839	8594	7375	6137	5018	4167	3239	2288
29.0	16936	15758	14152	12192	10271	8190	6376	4988	3923	2783
25.5	22904	20845	18640	15933	13288	10435	7865	5839	4461	3263

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CANDELA TABULATION - (Cont.)

22.5	30674 *	27058 *	23361	19536	16242	12719	9352	6678	4886	3623
19.5	41774 *	36284 *	29540 *	23557	19222	15106	10913	7644	5322	3924
17.0	52987 *	45799 *	36912 *	27773 *	21900	17061	12396	8453	5659	4142
15.0	63490 *	53657 *	43225 *	32366 *	24758	18562	13585	9070	5977	4331
13.0	74153 *	62634 *	49912 *	37208 *	27719 *	20393	14673	9792	6299	4499
11.0	87696 *	71307 *	56475 *	41621 *	30242 *	21987	15739	10426	6597	4648
9.0	99944 *	81919 *	63577 *	46529 *	33357 *	23335	16670	10930	6865	4777
7.0	113550 *	91087 *	69661 *	50765 *	36208 *	24675	17383	11339	7100	4886
5.0	124808 *	98373 *	74513 *	54146 *	38564 *	25972 *	17925	11650	7299	4976
3.0	133718 *	104866 *	78743 *	56593 *	40334 *	26952 *	18295	11883	7471	5067
1.0	140310 *	109298 *	81350 *	58108 *	40969 *	27288 *	18494	12059	7498	5102
0.0	140875 *	110173 *	81886 *	58274 *	40927 *	27291 *	18534	12094	7512	5120
-1.0	140010 *	109903 *	81895 *	58487 *	41300 *	27544 *	18723	12193	7532	5127
-3.0	136449 *	107337 *	80385 *	57767 *	41308 *	27690 *	18966	12276	7573	5141
-5.0	130659 *	102631 *	77149 *	56124 *	40116 *	26988 *	18718	12199	7477	5098
-7.0	121969 *	97413 *	73799 *	53538 *	38268 *	25901 *	18262	11969	7403	5073
-9.0	108229 *	89277 *	68956 *	50007 *	35779 *	24718	17649	11632	7281	5033
-11.0	96140 *	78994 *	62324 *	45472 *	32875 *	23551	16864	11189	7111	4973
-13.0	83334 *	70480 *	56107 *	41566 *	30399 *	22178	15938	10616	6894	4893
-15.0	72597 *	61469 *	49675 *	37179 *	27695 *	20615	14961	9951	6623	4791
-17.0	61934 *	53564 *	43340 *	32814 *	24965 *	19141	13851	9429	6341	4669
-19.5	50495 *	43759 *	35599 *	27848 *	22126	17248	12439	8707	6067	4521
-22.5	38311 *	33377 *	27991 *	22957	18889	14921	10915	7803	5694	4308
-25.5	28342 *	25128 *	22265	18978	15936	12563	9439	7001	5350	4046
-29.0	20879	19377	17473	15083	12794	10229	7893	6178	4904	3586
-33.0	15336	14212	12718	11124	9573	7866	6489	5398	4317	3050
-37.5	10299	9716	8930	7955	7088	6209	5394	4589	3501	2680
-42.5	6939	6649	6326	5881	5469	4982	4382	3558	2814	2205
-47.5	5169	5052	4871	4570	4226	3733	3198	2773	2219	1719
-55.0	3039	2931	2784	2641	2500	2297	2041	1772	1471	1231
-65.0	1402	1378	1343	1295	1246	1173	1085	966	842	727
-75.0	640	635	625	610	587	556	521	478	426	366
-85.0	153	150	147	143	138	132	124	114	100	86
-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	8	8	6	3	0
75.0	94	68	33	8	0
65.0	245	162	81	14	0
55.0	468	299	144	24	0
47.5	726	425	197	33	0
42.5	936	517	239	40	0
37.5	1183	616	279	45	0
33.0	1447	713	314	50	0
29.0	1684	799	344	54	0
25.5	1925	876	369	57	0
22.5	2111	934	389	59	0
19.5	2282	994	407	62	0
17.0	2415	1040	421	63	0
15.0	2518	1073	431	64	0
13.0	2618	1103	440	65	0
11.0	2712	1131	449	68	0
9.0	2801	1154	456	69	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2882	1174	463	69	0
5.0	2937	1192	472	69	0
3.0	2996	1209	476	70	0
1.0	3019	1218	479	70	0
0.0	3031	1222	481	70	0
-1.0	3039	1226	483	70	0
-3.0	3055	1235	485	71	0
-5.0	3035	1234	488	71	0
-7.0	3016	1233	486	71	0
-9.0	2975	1228	485	72	0
-11.0	2923	1219	483	72	0
-13.0	2861	1207	481	70	0
-15.0	2792	1190	478	69	0
-17.0	2714	1171	473	69	0
-19.5	2606	1142	467	68	0
-22.5	2472	1100	456	66	0
-25.5	2327	1058	444	65	0
-29.0	2139	1000	427	62	0
-33.0	1924	932	404	59	0
-37.5	1660	850	374	55	0
-42.5	1408	760	336	49	0
-47.5	1190	671	293	43	0
-55.0	894	532	233	32	0
-65.0	564	337	147	21	0
-75.0	277	166	70	13	0
-85.0	66	39	18	4	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 49267.03

Total Field Lumens (one side of beam only) = 39768.52

* 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	0.02	0.03	0.04	0.06	0.09	0.11	0.13	0.16	0.22
65	0.80	1.60	1.60	1.60	1.61	1.62	1.61	1.60	1.58	1.95
55	3.13	6.26	6.22	6.12	6.01	5.87	5.72	5.59	5.46	6.58
47.5	5.42	10.81	10.73	10.62	10.44	10.20	9.95	9.72	9.45	11.34
42.5	6.59	13.13	13.01	12.82	12.58	12.24	11.85	11.41	10.91	12.93
37.5	11.25	22.50	22.20	21.72	21.20	20.44	19.48	18.39	17.27	20.06
33	16.86	33.72	33.22	32.40	31.41	29.98	28.22	26.34	24.49	27.93
29	23.10	46.01	45.16	43.84	42.17	40.05	37.62	35.02	32.40	36.64
25.5	30.21 *	59.94 *	58.55 *	56.50 *	53.52 *	49.80	46.24	42.83	39.17	43.91
22.5	38.28 *	76.00 *	74.05 *	70.89 *	66.30 *	60.46 *	54.97 *	49.96 *	44.57 *	48.76
19.5	55.63 *	110.38 *	106.94 *	101.70 *	95.00 *	86.16 *	77.04 *	68.38 *	59.64 *	63.05 *
17	65.11 *	128.85 *	123.88 *	116.83 *	108.49 *	97.31 *	85.91 *	75.17 *	64.73 *	67.14 *
15	69.95 *	137.68 *	132.06 *	123.06 *	111.39 *	98.12 *	85.78 *	74.16 *	63.23 *	64.94 *
13	88.99 *	174.67 *	167.91 *	155.58 *	138.88 *	120.89 *	104.13 *	88.45 *	74.35 *	75.73 *
11	106.45 *	209.55 *	202.37 *	188.50 *	169.35 *	147.76 *	125.85 *	105.10 *	86.61 *	86.90 *
9	121.04 *	239.24 *	232.08 *	218.13 *	198.47 *	175.24 *	149.55 *	123.35 *	99.81 *	98.81 *
7	132.61 *	262.76 *	255.56 *	242.48 *	223.68 *	199.82 *	171.69 *	141.07 *	113.17 *	110.73 *
5	141.53 *	280.50 *	273.30 *	261.01 *	243.05 *	219.51 *	189.94 *	156.81 *	125.27 *	120.64 *
3	147.46 *	292.50 *	285.73 *	273.90 *	256.51 *	233.09 *	203.30 *	169.49 *	135.21 *	128.91 *
1	150.27 *	298.90 *	293.38 *	281.98 *	264.48 *	241.27 *	212.43 *	178.95 *	142.94 *	135.33 *
0	75.56 *	150.55 *	148.21 *	142.56 *	133.74 *	122.50 *	108.48 *	91.72 *	73.30 *	69.19 *
-1	75.64 *	150.68 *	148.42 *	142.81 *	133.98 *	122.70 *	108.48 *	91.62 *	73.34 *	69.40 *
	151.31 *	300.95 *	295.42 *	283.79 *	266.41 *	243.79 *	214.92 *	180.75 *	144.56 *	137.23 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	150.41 *	297.95 *	290.01 *	277.69 *	260.96 *	238.60 *	209.58 *	175.22 *	139.69 *	132.89 *
-5	145.99 *	288.68 *	280.13 *	267.61 *	250.62 *	228.01 *	198.98 *	165.68 *	132.54 *	126.92 *
-7	138.00 *	273.29 *	265.70 *	253.01 *	235.03 *	211.39 *	182.55 *	151.20 *	122.07 *	119.12 *
-9	128.09 *	253.21 *	245.83 *	233.20 *	214.24 *	189.82 *	161.92 *	133.85 *	109.11 *	108.31 *
-11	115.58 *	227.45 *	219.43 *	207.02 *	188.48 *	164.96 *	139.98 *	116.63 *	96.32 *	96.87 *
-13	99.79 *	195.52 *	187.33 *	175.27 *	158.24 *	138.34 *	118.58 *	100.31 *	84.29 *	85.96 *
-15	81.78 *	159.74 *	152.63 *	142.46 *	128.87 *	113.84 *	99.39 *	85.71 *	73.07 *	75.23 *
-17	79.28 *	154.78 *	148.05 *	139.14 *	128.10 *	114.98 *	101.83 *	89.17 *	76.77 *	79.67 *
-19.5	69.34 *	136.62 *	131.93 *	125.20 *	116.58 *	106.08 *	95.04 *	84.02 *	72.88 *	76.33 *
-22.5	49.16 *	97.97 *	95.61 *	91.30 *	85.35 *	78.05 *	70.46 *	62.81 *	54.97 *	58.99 *
-25.5	39.82 *	79.47 *	77.77 *	74.46 *	69.94 *	64.62 *	59.16 *	53.58 *	48.03	53.31
-29	30.27	60.57 *	59.62	57.58	54.81	51.59	48.12	44.46	40.88	46.12
-33	22.66	45.32	44.82	43.77	42.27	40.26	37.85	35.26	32.65	37.08
-37.5	16.23	32.38	32.01	31.34	30.45	29.27	27.83	26.21	24.60	28.58
-42.5	10.51	21.01	20.82	20.44	20.00	19.46	18.85	18.18	17.43	20.70
-47.5	10.38	20.74	20.59	20.30	19.95	19.50	18.99	18.42	17.78	21.20
-55	7.55	15.11	15.03	14.80	14.52	14.17	13.76	13.31	12.81	15.25
-65	3.31	6.62	6.58	6.51	6.43	6.33	6.21	6.08	5.94	7.20
-75	1.26	2.51	2.50	2.48	2.46	2.43	2.40	2.35	2.31	2.81
-85	0.12	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.22	0.27
-90										
Total	2716.72	5376.37	5226.65	4972.69	4616.26	4170.82	3664.96	3128.7	2605.96	2631.15

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.02
85	0.30	0.33	0.42	0.51	0.59	0.66	0.61	0.76	0.68	0.30
75	2.28	2.21	2.46	2.61	2.66	2.62	2.24	2.63	2.16	0.89
65	7.49	7.01	7.43	7.48	7.21	6.61	5.30	5.80	4.46	1.78
55	12.80	11.78	12.22	11.88	11.28	10.01	7.40	7.60	5.47	2.08

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	14.40	13.09	13.56	13.22	12.15	10.44	7.57	7.33	4.95	1.79
42.5										
	21.72	19.23	19.59	18.99	17.26	14.42	10.39	9.85	6.18	2.15
37.5										
	29.47	25.28	24.74	23.01	20.63	17.23	12.04	11.09	6.78	2.25
33										
	38.20	32.08	30.30	26.86	23.00	19.03	13.17	11.72	7.06	2.26
29										
	45.47	37.75	34.98	30.03	24.55	19.61	13.59	12.07	7.03	2.17
25.5										
	49.56	40.69	37.45	31.62	24.96	19.13	13.11	11.71	6.67	2.00
22.5										
	61.42	49.18	44.98	37.66	29.03	21.46	14.34	12.80	7.21	2.13
19.5										
	62.80 *	48.23	43.41	36.21	27.56	19.74	12.82	11.40	6.40	1.86
17										
	59.83 *	44.57 *	38.99	32.16	24.34	17.01	10.83	9.58	5.36	1.54
15										
	69.40 *	50.94 *	43.32	35.09	26.37	18.16	11.36	9.98	5.56	1.59
13										
	79.00 *	57.09 *	47.55 *	38.01	28.33	19.31	11.87	10.34	5.75	1.62
11										
	88.80 *	63.34 *	51.61 *	40.58	30.09	20.31	12.32	10.67	5.93	1.66
9										
	98.33 *	69.64 *	55.71 *	42.85	31.52	21.13	12.72	10.96	6.09	1.69
7										
	106.24 *	75.00 *	59.43 *	44.88	32.62	21.80	13.06	11.20	6.23	1.72
5										
	112.60 *	79.15 *	62.46 *	46.54	33.44	22.34	13.36	11.41	6.34	1.74
3										
	117.21 *	81.81 *	64.23 *	47.53	33.98	22.69	13.53	11.56	6.42	1.76
1										
	59.63 *	41.38 *	32.33 *	23.91	17.12	11.42	6.79	5.81	3.23	0.88
0										
	59.83 *	41.53 *	32.47 *	24.04	17.22	11.47	6.81	5.83	3.24	0.89
-1										
	118.80 *	83.00 *	65.32 *	48.52	34.78	23.08	13.66	11.69	6.51	1.78
-3										
	115.77 *	81.52 *	64.49 *	48.22	34.78	23.05	13.61	11.67	6.51	1.79
-5										
	111.16 *	78.49 *	62.20 *	46.92	34.22	22.77	13.49	11.59	6.48	1.79
-7										
	105.05 *	74.12 *	59.07 *	45.18	33.30	22.33	13.34	11.50	6.43	1.79
-9										
	96.72 *	68.51 *	55.40 *	43.22	32.08	21.70	13.13	11.36	6.35	1.78
-11										
	87.64 *	62.74 *	51.65 *	41.00	30.56	20.88	12.85	11.18	6.24	1.76
-13										
	78.71 *	57.11 *	47.80 *	38.48	28.80	19.88	12.49	10.96	6.12	1.75
-15										
	69.53 *	51.19 *	43.79	35.80	26.97	18.86	12.07	10.69	5.98	1.72
-17										
	74.43 *	56.22 *	49.45	40.91	31.07	22.27	14.53	12.96	7.26	2.12
-19.5										
	73.19 *	57.49	52.02	43.48	33.46	24.73	16.63	14.90	8.35	2.47

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	58.98	48.06	44.29	37.47	29.51	22.61	15.66	14.10	7.94	2.39
-25.5	55.09	45.86	42.72	36.66	29.88	23.92	16.85	15.13	8.68	2.67
-29	48.11	40.55	38.35	33.91	29.05	24.26	17.07	15.29	9.12	2.87
-33	39.09	33.56	32.77	30.49	27.54	23.36	16.41	14.97	9.18	3.00
-37.5	31.02	27.54	28.13	27.37	25.07	21.09	15.07	14.21	8.89	3.02
-42.5	23.08	21.02	21.81	21.27	19.46	16.57	12.05	11.65	7.66	2.68
-47.5	23.78	21.81	22.67	22.06	20.53	18.01	13.40	13.49	9.38	3.37
-55	17.20	16.03	17.10	17.22	16.41	14.73	11.50	12.20	8.85	3.25
-65	8.26	7.80	8.44	8.71	8.53	7.91	6.35	6.91	5.11	1.87
-75	3.25	3.08	3.35	3.48	3.46	3.26	2.63	2.84	2.08	0.76
-85	0.31	0.29	0.32	0.33	0.33	0.31	0.25	0.27	0.20	0.07
-90										
Total	2435.96	1827.31	1570.79	1286.38	1005.71	742.17	488.30	441.71	262.57	81.48

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.01	0.00	0.16
85			
	0.07	0.00	6.10
75			
	0.18	0.00	38.51
65			
	0.35	0.01	117.90
55			
	0.39	0.01	191.62
47.5			
	0.34	0.01	216.33
42.5			
	0.40	0.01	334.69
37.5			
	0.41	0.01	457.51
33			
	0.40	0.01	586.09
29			
	0.38	0.01	708.32
25.5			
	0.35	0.01	821.47
22.5			
	0.36	0.01	1104.49
19.5			
	0.31	0.01	1204.16
17			
	0.26	0.00	1204.85

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

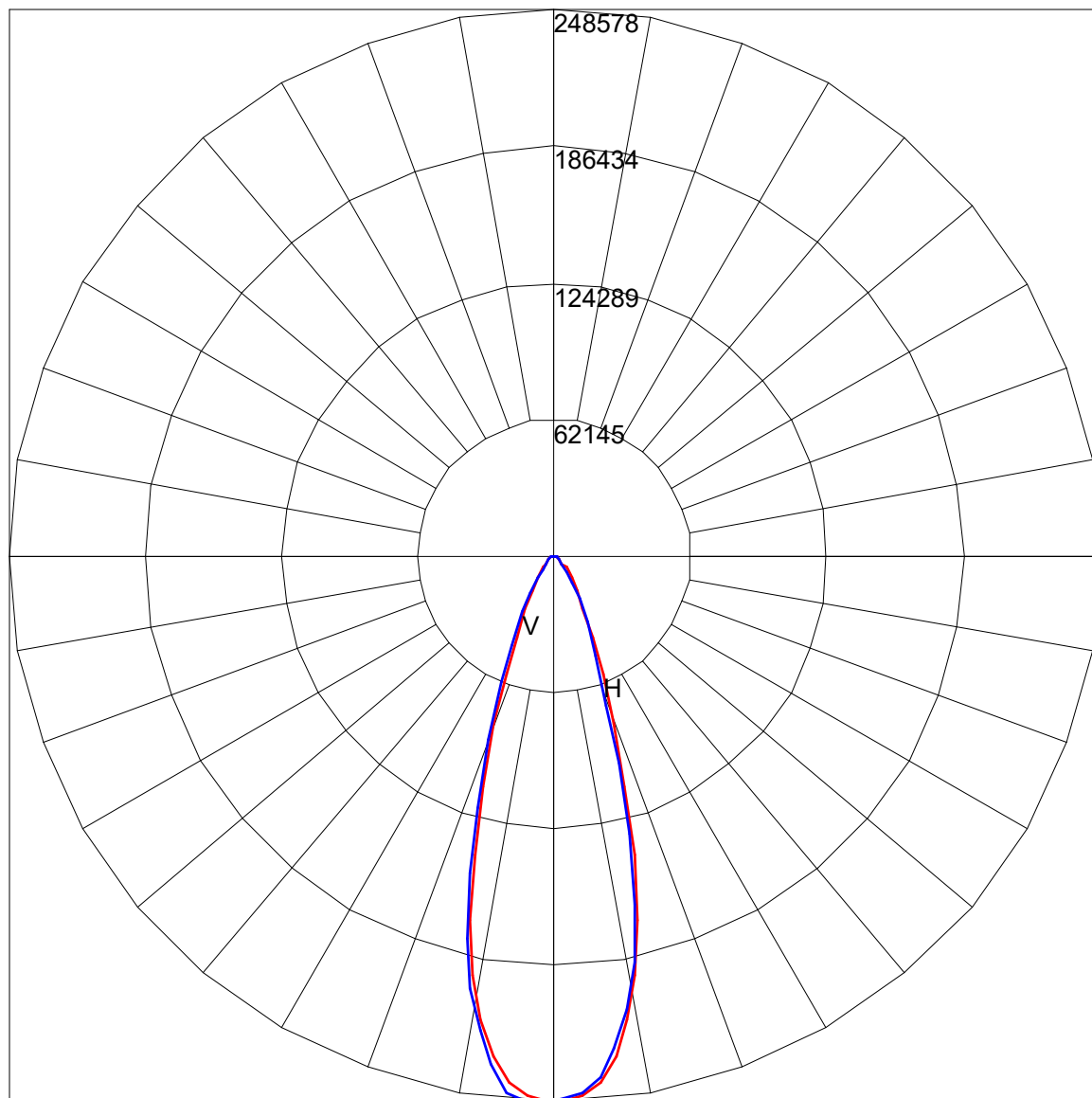
15	0.26	0.00	1461.61
13	0.27	0.00	1727.58
11	0.28	0.00	1981.31
9	0.28	0.00	2204.49
7	0.28	0.00	2384.02
5	0.29	0.00	2515.76
3	0.29	0.00	2600.96
1	0.15	0.00	1318.47
0	0.15	0.00	1320.53
-1	0.29	0.00	2626.56
-3	0.29	0.00	2574.7
-5	0.29	0.00	2474.57
-7	0.29	0.00	2323.78
-9	0.29	0.00	2128.14
-11	0.29	0.00	1899.51
-13	0.29	0.00	1646.02
-15	0.29	0.00	1389.62
-17	0.36	0.01	1423.33
-19.5	0.42	0.01	1341.17
-22.5	0.41	0.01	1026.08
-25.5	0.46	0.01	898.08
-29	0.50	0.01	753.11
-33	0.53	0.01	612.85
-37.5	0.54	0.01	480.86
-42.5	0.48	0.01	345.13
-47.5	0.60	0.01	356.95
-55	0.57	0.01	271.37
-65	0.33	0.01	131.43

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

LUMENS TABULATION - (Cont.)

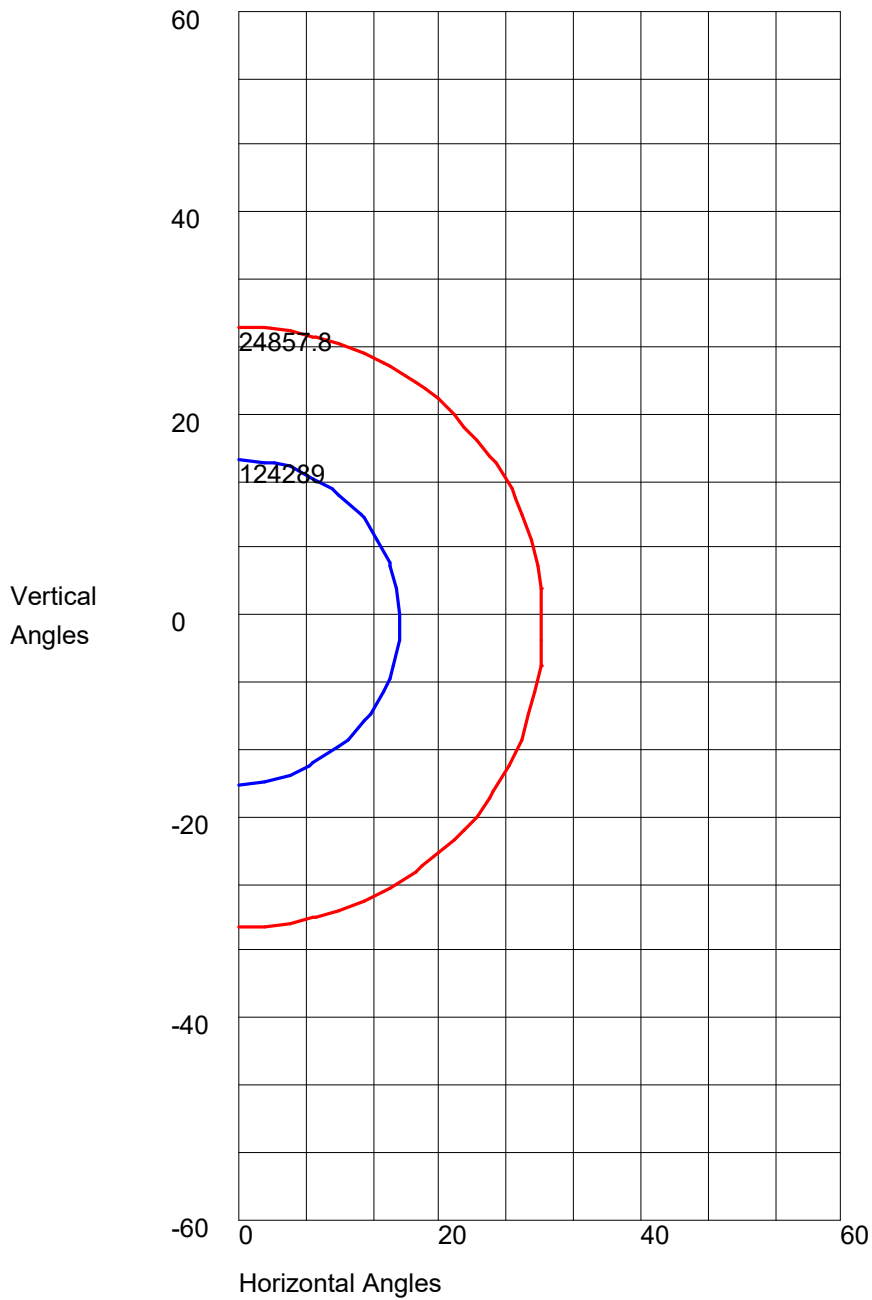
-75	0.14	0.00	51.86
-85	0.01	0.00	4.97
-90			
Total	14.13	0.23	49267.01

AXIAL CANDELA DISPLAY



Maximum Candela = 248578 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 248578 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 124289
10% Maximum Candela = 24857.8