



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-MWF-40-GS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13138
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 12/20/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-MWF-40-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] 4000

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	115047
Maximum Candela Angle	0H 3V
Horizontal Beam Angle (50%)	38.8
Vertical Beam Angle (50%)	38.8
Horizontal Field Angle (10%)	76.6
Vertical Field Angle (10%)	75.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	32502
Beam Efficiency	N.A.
Field Lumens	57579
Field Efficiency	N.A.
Spill Lumens	7609
Luminaire Lumens	65188
Total Efficiency	N.A.
Total Luminaire Watts	462.9
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	1	90	0
85	33	85	0
75	232	75	0
65	694	65	122
55	1625	55	829
47.5	2978	47.5	1545
42.5	6905	42.5	4251
37.5	12654	37.5	9259
33	18952	33	15109
29	26117	29	21855
25.5	34079	25.5	29393
22.5	43442	22.5	38381
19.5	58281	19.5	53099
17	73138	17	68763
15	84598	15	80622
13	93448	13	91064
11	100562	11	99170
9	106229	9	105441
7	110596	7	110271
5	113665	5	113946
3	114656	3	115047
1	114812	1	114979
0	114750	0	114750
-1	114812	-1	114778
-3	114656	-3	114610
-5	113665	-5	113768
-7	110596	-7	111001
-9	106229	-9	106988
-11	100562	-11	101748
-13	93448	-13	95073
-15	84598	-15	86534
-17	73138	-17	74800
-19.5	58281	-19.5	60309
-22.5	43442	-22.5	45049
-25.5	34079	-25.5	35426
-29	26117	-29	27453
-33	18952	-33	20392
-37.5	12654	-37.5	13786
-42.5	6905	-42.5	8110
-47.5	2978	-47.5	3545
-55	1625	-55	2075
-65	694	-65	961
-75	232	-75	395
-85	33	-85	102
-90	1	-90	23

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CANDELA TABULATION

Maximum Candela = 115047

Beam Edge = 57523.5 Cd (50% of Max.)

Field Edge = 11504.7 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	1	1	1	1	1	1	1	1	1	1
85.0	1	2	4	4	4	4	3	2	1	1
75.0	1	5	15	25	30	28	25	21	15	12
65.0	1	8	37	73	107	128	140	148	155	160
55.0	1	12	66	142	235	333	403	480	555	626
47.5	1	17	90	202	371	541	692	809	921	1092
42.5	1	20	109	250	483	771	924	1162	1441	1573
37.5	1	22	127	306	632	976	1262	1629	2000	2756
33.0	1	24	143	363	789	1190	1673	2136	3361	5050
29.0	1	26	158	415	921	1493	1943	3170	5417	7801
25.5	1	27	170	462	1021	1763	2343	4445	7450	10347
22.5	1	28	179	497	1105	1905	2812	5703	9255	12694 *
19.5	1	29	188	535	1199	2035	3500	7017	11131	15072 *
17.0	1	30	196	564	1286	2167	4032	8078	12636 *	17095 *
15.0	1	31	201	586	1349	2304	4546	8865	13710 *	18599 *
13.0	1	31	207	606	1405	2432	5057	9682	14692 *	20145 *
11.0	1	32	212	625	1456	2549	5512	10413	15665 *	21574 *
9.0	1	33	216	642	1500	2654	5909	11069	16580 *	22866 *
7.0	1	33	221	657	1538	2746	6245	11630 *	17390 *	23982 *
5.0	1	33	226	670	1570	2827	6518	12092 *	18059 *	24889 *
3.0	1	33	228	683	1602	2919	6801	12422 *	18571 *	25542 *
1.0	1	33	231	690	1617	2958	6870	12617 *	18866 *	25986 *
0.0	1	33	232	694	1625	2978	6905	12654 *	18952 *	26117 *
-1.0	1	33	233	697	1638	2994	6945	12669 *	18971 *	26172 *
-3.0	1	33	236	702	1664	3026	7025	12579 *	18886 *	26076 *
-5.0	1	34	239	701	1670	3001	6879	12461 *	18722 *	25715 *
-7.0	1	34	238	700	1676	2980	6729	12274 *	18399 *	25130 *
-9.0	1	34	239	698	1659	2939	6508	11966 *	17904 *	24368 *
-11.0	1	34	239	693	1634	2879	6215	11534 *	17211 *	23372 *
-13.0	1	33	239	688	1602	2800	5852	10970	16402 *	22196 *
-15.0	1	33	238	680	1564	2701	5418	10310	15564 *	20852 *
-17.0	1	33	237	670	1519	2582	4950	9648	14591 *	19520 *
-19.5	1	32	234	655	1453	2489	4426	8703	13194 *	17666 *
-22.5	1	32	228	632	1392	2425	3700	7389	11446	15386 *
-25.5	1	31	222	609	1343	2349	3184	6020	9597	13043 *
-29.0	1	30	213	572	1281	2105	2725	4593	7477	10465
-33.0	1	28	201	529	1164	1802	2526	3344	5229	7531
-37.5	1	27	186	474	1015	1528	2115	2680	3385	4723
-42.5	1	24	166	411	852	1370	1641	2187	2617	2871
-47.5	1	22	145	353	706	1075	1403	1609	1969	2273
-55.0	1	17	115	277	508	751	926	1117	1316	1485
-65.0	1	12	75	178	305	416	498	584	665	726
-75.0	1	8	39	93	155	202	239	273	300	319
-85.0	1	4	14	27	43	56	65	73	80	85
-90.0	1	2	5	9	14	16	18	19	20	21

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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	1	1	0	0	0	0	0	0	0	0
85.0	1	1	0	0	0	0	0	0	0	0
75.0	8	6	4	2	0	0	0	0	0	0
65.0	162	161	163	162	159	155	151	146	139	130
55.0	668	703	734	756	771	784	796	807	817	824
47.5	1229	1276	1307	1350	1400	1441	1474	1507	1530	1543
42.5	1793	2053	2453	2733	3063	3385	3644	3866	4049	4176
37.5	3692	4620	5642	6428	6975	7537	8012	8397	8683	8871
33.0	6689	8107	9504	10730	11633 *	12406 *	13089 *	13653 *	14115 *	14485 *
29.0	9846	11847 *	13731 *	15294 *	16454 *	17693 *	18724 *	19548 *	20252 *	20904 *
25.5	13081 *	15611 *	18095 *	20096 *	21864 *	23495 *	24846 *	26210 *	27312 *	28262 *
22.5	16053 *	19180 *	22361 *	25055 *	27419 *	29660 *	31512 *	33570 *	35304 *	36748 *
19.5	19166 *	22941 *	26922 *	30820 *	34120 *	37513 *	40496 *	43938 *	47001 *	49329 *
17.0	21726 *	26121 *	31232 *	36265 *	40428 *	46050 *	50998 *	56151 *	60826 *	64995 *
15.0	23784 *	28813 *	34853 *	40815 *	47373 *	53951 *	61349 *	67520 *	72314 *	76553 *
13.0	25767 *	31500 *	38694 *	46768 *	54273 *	63231 *	71134 *	77908 *	83268 *	86994 *
11.0	27649 *	34008 *	42513 *	52498 *	62034 *	71457 *	79860 *	86688 *	92163 *	95856 *
9.0	29590 *	36873 *	47282 *	59087 *	69420 *	78616 *	87008 *	94208 *	98662 *	102283 *
7.0	31270 *	39427 *	51474 *	64799 *	75424 *	85013 *	92967 *	99057 *	103540 *	106726 *
5.0	32481 *	41350 *	54684 *	69288 *	79867 *	89121 *	96825 *	102559 *	107050 *	110103 *
3.0	33367 *	42654 *	56982 *	71867 *	82887 *	91858 *	98988 *	104613 *	109104 *	112312 *
1.0	33929 *	43410 *	58171 *	73054 *	84690 *	93380 *	100305 *	105834 *	110263 *	113572 *
0.0	34079 *	43442 *	58281 *	73138 *	84598 *	93448 *	100562 *	106229 *	110596 *	113665 *
-1.0	34187 *	43863 *	58753 *	73558 *	84781 *	93467 *	100415 *	105945 *	110337 *	113590 *
-3.0	34060 *	43678 *	58101 *	72685 *	83335 *	92278 *	99453 *	105220 *	109770 *	112525 *
-5.0	33415 *	42572 *	55982 *	70194 *	80563 *	89823 *	97941 *	103538 *	107664 *	110711 *
-7.0	32437 *	40930 *	53206 *	66215 *	76444 *	86164 *	94279 *	100094 *	104688 *	107775 *
-9.0	31139 *	38827 *	49612 *	61476 *	71997 *	81415 *	89225 *	95675 *	100232 *	103778 *
-11.0	29573 *	36350 *	45421 *	56268 *	66094 *	75006 *	82863 *	89404 *	94559 *	98041 *
-13.0	28039 *	34110 *	41802 *	50787 *	58861 *	67372 *	74923 *	81664 *	87031 *	90499 *
-15.0	26298 *	31659 *	38170 *	44758 *	51981 *	58798 *	65867 *	72109 *	77213 *	81441 *
-17.0	24449 *	29181 *	34761 *	40362 *	44978 *	50914 *	56377 *	61935 *	66875 *	71065 *
-19.5	22136 *	26136 *	30741 *	34902 *	38419 *	42158 *	45868 *	50154 *	54104 *	57331 *
-22.5	19111 *	22448 *	26101 *	29318 *	31850 *	34344 *	36633 *	39333 *	41716 *	43476 *
-25.5	16185 *	19019 *	22023 *	24563 *	26487 *	28271 *	29861 *	31651 *	33214 *	34308 *
-29.0	12981 *	15410 *	17801 *	19650 *	21017 *	22420 *	23643 *	24716 *	25701 *	26554 *
-33.0	9702	11597 *	13365 *	14810 *	15862 *	16761 *	17598 *	18325 *	18991 *	19561 *
-37.5	6210	7557	8962	10076	10858	11532 *	12117 *	12616 *	13065 *	13420 *
-42.5	3414	4005	4824	5437	5957	6452	6885	7249	7541	7761
-47.5	2521	2642	2752	2879	3039	3180	3302	3406	3489	3550
-55.0	1547	1592	1658	1754	1829	1899	1956	1999	2030	2050
-65.0	778	812	848	874	892	908	921	932	940	946
-75.0	335	347	359	367	374	378	382	386	389	393
-85.0	89	92	94	95	96	97	99	99	99	99
-90.0	22	22	23	23	23	23	24	24	24	24

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	0	0	0	0	0	0	0	0	0	0
65.0	128	124	122	124	128	130	139	146	151	155

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CANDELA TABULATION - (Cont.)

55.0	831	830	829	830	831	824	817	807	796	784
47.5	1559	1550	1545	1550	1559	1543	1530	1507	1474	1441
42.5	4310	4271	4251	4271	4310	4176	4049	3866	3644	3385
37.5	8968	9197	9259	9197	8968	8871	8683	8397	8012	7537
33.0	14735 *	15013 *	15109 *	15013 *	14735 *	14485 *	14115 *	13653 *	13089 *	12406 *
29.0	21339 *	21723 *	21855 *	21723 *	21339 *	20904 *	20252 *	19548 *	18724 *	17693 *
25.5	28929 *	29311 *	29393 *	29311 *	28929 *	28262 *	27312 *	26210 *	24846 *	23495 *
22.5	37967 *	38538 *	38381 *	38538 *	37967 *	36748 *	35304 *	33570 *	31512 *	29660 *
19.5	51983 *	53243 *	53099 *	53243 *	51983 *	49329 *	47001 *	43938 *	40496 *	37513 *
17.0	67764 *	68930 *	68763 *	68930 *	67764 *	64995 *	60826 *	56151 *	50998 *	46050 *
15.0	79379 *	80934 *	80622 *	80934 *	79379 *	76553 *	72314 *	67520 *	61349 *	53951 *
13.0	89642 *	91108 *	91064 *	91108 *	89642 *	86994 *	83268 *	77908 *	71134 *	63231 *
11.0	97833 *	99103 *	99170 *	99103 *	97833 *	95856 *	92163 *	86688 *	79860 *	71457 *
9.0	104246 *	105258 *	105441 *	105258 *	104246 *	102283 *	98662 *	94208 *	87008 *	78616 *
7.0	109161 *	109985 *	110271 *	109985 *	109161 *	106726 *	103540 *	99057 *	92967 *	85013 *
5.0	112222 *	113563 *	113946 *	113563 *	112222 *	110103 *	107050 *	102559 *	96825 *	89121 *
3.0	113987 *	114610 *	115047 *	114610 *	113987 *	112312 *	109104 *	104613 *	98988 *	91858 *
1.0	114613 *	114897 *	114979 *	114897 *	114613 *	113572 *	110263 *	105834 *	100305 *	93380 *
0.0	114656 *	114812 *	114750 *	114812 *	114656 *	113665 *	110596 *	106229 *	100562 *	93448 *
-1.0	114552 *	114809 *	114778 *	114809 *	114552 *	113590 *	110337 *	105945 *	100415 *	93467 *
-3.0	114011 *	114420 *	114610 *	114420 *	114011 *	112525 *	109770 *	105220 *	99453 *	92278 *
-5.0	112586 *	113581 *	113768 *	113581 *	112586 *	110711 *	107664 *	103538 *	97941 *	89823 *
-7.0	109934 *	110683 *	111001 *	110683 *	109934 *	107775 *	104688 *	100094 *	94279 *	86164 *
-9.0	105609 *	106646 *	106988 *	106646 *	105609 *	103778 *	100232 *	95675 *	89225 *	81415 *
-11.0	99965 *	101342 *	101748 *	101342 *	99965 *	98041 *	94559 *	89404 *	82863 *	75006 *
-13.0	92986 *	94568 *	95073 *	94568 *	92986 *	90499 *	87031 *	81664 *	74923 *	67372 *
-15.0	84310 *	86149 *	86534 *	86149 *	84310 *	81441 *	77213 *	72109 *	65867 *	58798 *
-17.0	73796 *	74996 *	74800 *	74996 *	73796 *	71065 *	66875 *	61935 *	56377 *	50914 *
-19.5	59639 *	60595 *	60309 *	60595 *	59639 *	57331 *	54104 *	50154 *	45868 *	42158 *
-22.5	44467 *	45035 *	45049 *	45035 *	44467 *	43476 *	41716 *	39333 *	36633 *	34344 *
-25.5	35002 *	35368 *	35426 *	35368 *	35002 *	34308 *	33214 *	31651 *	29861 *	28271 *
-29.0	27132 *	27412 *	27453 *	27412 *	27132 *	26554 *	25701 *	24716 *	23643 *	22420 *
-33.0	19980 *	20292 *	20392 *	20292 *	19980 *	19561 *	18991 *	18325 *	17598 *	16761 *
-37.5	13673 *	13790 *	13786 *	13790 *	13673 *	13420 *	13065 *	12616 *	12117 *	11532 *
-42.5	8005	8075	8110	8075	8005	7761	7541	7249	6885	6452
-47.5	3604	3565	3545	3565	3604	3550	3489	3406	3302	3180
-55.0	2074	2075	2075	2075	2074	2050	2030	1999	1956	1899
-65.0	956	959	961	959	956	946	940	932	921	908
-75.0	394	395	395	395	394	393	389	386	382	378
-85.0	100	101	102	101	100	99	99	99	99	97
-90.0	24	23	23	23	24	24	24	24	24	23

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	1	1	1	1	1	1	1
85.0	0	0	0	1	1	1	1	2	3	4
75.0	0	2	4	6	8	12	15	21	25	28
65.0	159	162	163	161	162	160	155	148	140	128
55.0	771	756	734	703	668	626	555	480	403	333
47.5	1400	1350	1307	1276	1229	1092	921	809	692	541
42.5	3063	2733	2453	2053	1793	1573	1441	1162	924	771
37.5	6975	6428	5642	4620	3692	2756	2000	1629	1262	976
33.0	11633 *	10730	9504	8107	6689	5050	3361	2136	1673	1190
29.0	16454 *	15294 *	13731 *	11847 *	9846	7801	5417	3170	1943	1493
25.5	21864 *	20096 *	18095 *	15611 *	13081 *	10347	7450	4445	2343	1763

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CANDELA TABULATION - (Cont.)

22.5	27419 *	25055 *	22361 *	19180 *	16053 *	12694 *	9255	5703	2812	1905
19.5	34120 *	30820 *	26922 *	22941 *	19166 *	15072 *	11131	7017	3500	2035
17.0	40428 *	36265 *	31232 *	26121 *	21726 *	17095 *	12636 *	8078	4032	2167
15.0	47373 *	40815 *	34853 *	28813 *	23784 *	18599 *	13710 *	8865	4546	2304
13.0	54273 *	46768 *	38694 *	31500 *	25767 *	20145 *	14692 *	9682	5057	2432
11.0	62034 *	52498 *	42513 *	34008 *	27649 *	21574 *	15665 *	10413	5512	2549
9.0	69420 *	59087 *	47282 *	36873 *	29590 *	22866 *	16580 *	11069	5909	2654
7.0	75424 *	64799 *	51474 *	39427 *	31270 *	23982 *	17390 *	11630 *	6245	2746
5.0	79867 *	69288 *	54684 *	41350 *	32481 *	24889 *	18059 *	12092 *	6518	2827
3.0	82887 *	71867 *	56982 *	42654 *	33367 *	25542 *	18571 *	12422 *	6801	2919
1.0	84690 *	73054 *	58171 *	43410 *	33929 *	25986 *	18866 *	12617 *	6870	2958
0.0	84598 *	73138 *	58281 *	43442 *	34079 *	26117 *	18952 *	12654 *	6905	2978
-1.0	84781 *	73558 *	58753 *	43863 *	34187 *	26172 *	18971 *	12669 *	6945	2994
-3.0	83335 *	72685 *	58101 *	43678 *	34060 *	26076 *	18886 *	12579 *	7025	3026
-5.0	80563 *	70194 *	55982 *	42572 *	33415 *	25715 *	18722 *	12461 *	6879	3001
-7.0	76444 *	66215 *	53206 *	40930 *	32437 *	25130 *	18399 *	12274 *	6729	2980
-9.0	71997 *	61476 *	49612 *	38827 *	31139 *	24368 *	17904 *	11966 *	6508	2939
-11.0	66094 *	56268 *	45421 *	36350 *	29573 *	23372 *	17211 *	11534 *	6215	2879
-13.0	58861 *	50787 *	41802 *	34110 *	28039 *	22196 *	16402 *	10970	5852	2800
-15.0	51981 *	44758 *	38170 *	31659 *	26298 *	20852 *	15564 *	10310	5418	2701
-17.0	44978 *	40362 *	34761 *	29181 *	24449 *	19520 *	14591 *	9648	4950	2582
-19.5	38419 *	34902 *	30741 *	26136 *	22136 *	17666 *	13194 *	8703	4426	2489
-22.5	31850 *	29318 *	26101 *	22448 *	19111 *	15386 *	11446	7389	3700	2425
-25.5	26487 *	24563 *	22023 *	19019 *	16185 *	13043 *	9597	6020	3184	2349
-29.0	21017 *	19650 *	17801 *	15410 *	12981 *	10465	7477	4593	2725	2105
-33.0	15862 *	14810 *	13365 *	11597 *	9702	7531	5229	3344	2526	1802
-37.5	10858	10076	8962	7557	6210	4723	3385	2680	2115	1528
-42.5	5957	5437	4824	4005	3414	2871	2617	2187	1641	1370
-47.5	3039	2879	2752	2642	2521	2273	1969	1609	1403	1075
-55.0	1829	1754	1658	1592	1547	1485	1316	1117	926	751
-65.0	892	874	848	812	778	726	665	584	498	416
-75.0	374	367	359	347	335	319	300	273	239	202
-85.0	96	95	94	92	89	85	80	73	65	56
-90.0	23	23	23	22	22	21	20	19	18	16

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	1	1	1	1	1
85.0	4	4	4	2	1
75.0	30	25	15	5	1
65.0	107	73	37	8	1
55.0	235	142	66	12	1
47.5	371	202	90	17	1
42.5	483	250	109	20	1
37.5	632	306	127	22	1
33.0	789	363	143	24	1
29.0	921	415	158	26	1
25.5	1021	462	170	27	1
22.5	1105	497	179	28	1
19.5	1199	535	188	29	1
17.0	1286	564	196	30	1
15.0	1349	586	201	31	1
13.0	1405	606	207	31	1
11.0	1456	625	212	32	1
9.0	1500	642	216	33	1

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-40-GS.IES

CANDELA TABULATION - (Cont.)

7.0	1538	657	221	33	1
5.0	1570	670	226	33	1
3.0	1602	683	228	33	1
1.0	1617	690	231	33	1
0.0	1625	694	232	33	1
-1.0	1638	697	233	33	1
-3.0	1664	702	236	33	1
-5.0	1670	701	239	34	1
-7.0	1676	700	238	34	1
-9.0	1659	698	239	34	1
-11.0	1634	693	239	34	1
-13.0	1602	688	239	33	1
-15.0	1564	680	238	33	1
-17.0	1519	670	237	33	1
-19.5	1453	655	234	32	1
-22.5	1392	632	228	32	1
-25.5	1343	609	222	31	1
-29.0	1281	572	213	30	1
-33.0	1164	529	201	28	1
-37.5	1015	474	186	27	1
-42.5	852	411	166	24	1
-47.5	706	353	145	22	1
-55.0	508	277	115	17	1
-65.0	305	178	75	12	1
-75.0	155	93	39	8	1
-85.0	43	27	14	4	1
-90.0	14	9	5	2	1

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-40-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 32593.96

Total Field Lumens (one side of beam only) = 28789.25

* 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	0.00	0.00	0.00	0.01
65	0.19	0.38	0.39	0.41	0.43	0.45	0.46	0.46	0.47	0.60
55	1.45	2.91	2.91	2.89	2.88	2.85	2.81	2.76	2.71	3.28
47.5	2.72	5.45	5.42	5.36	5.27	5.16	5.02	4.87	4.70	5.62
42.5	4.42	8.90	8.80	8.56	8.26	7.87	7.41	6.86	6.26	7.09
37.5	10.27	20.35	20.00	19.52	18.85	17.94	16.82	15.49	14.05	15.60
33	16.65 *	32.82 *	32.17 *	31.46 *	30.44	29.12	27.51	25.64	23.56	26.28
29	22.45 *	44.33 *	43.43 *	42.26 *	40.76 *	39.01 *	36.89 *	34.39 *	31.69 *	35.62 *
25.5	27.26 *	53.97 *	52.87 *	51.28 *	49.26 *	46.89 *	44.19 *	41.12 *	37.77 *	42.53 *
22.5	30.98 *	61.53 *	60.12 *	57.99 *	55.38 *	52.26 *	48.94 *	45.41 *	41.48 *	46.43 *
19.5	41.87 *	82.98 *	80.23 *	76.51 *	72.31 *	67.28 *	62.20 *	57.06 *	51.57 *	57.04 *
17	46.46 *	92.06 *	88.91 *	84.12 *	78.39 *	71.84 *	65.20 *	58.41 *	51.84 *	56.61 *
15	45.58 *	90.41 *	87.72 *	83.21 *	77.46 *	70.80 *	63.27 *	55.51 *	48.28 *	51.77 *
13	52.35 *	103.83 *	101.05 *	96.67 *	90.80 *	83.37 *	74.39 *	64.68 *	55.41 *	58.26 *
11	57.94 *	114.97 *	112.53 *	108.54 *	102.56 *	94.67 *	85.12 *	74.18 *	63.12 *	65.26 *
9	62.29 *	123.73 *	121.61 *	117.83 *	112.13 *	104.32 *	94.43 *	83.21 *	71.16 *	72.82 *
7	65.63 *	130.49 *	128.36 *	124.57 *	119.29 *	111.96 *	102.38 *	91.17 *	78.68 *	80.51 *
5	68.20 *	135.44 *	133.16 *	129.48 *	124.34 *	117.41 *	108.43 *	97.36 *	84.73 *	86.87 *
3	69.63 *	138.32 *	136.32 *	132.86 *	127.69 *	120.89 *	112.26 *	101.59 *	88.99 *	91.42 *
1	69.99 *	139.46 *	138.10 *	134.88 *	129.65 *	122.91 *	114.57 *	104.28 *	91.50 *	94.04 *
0	34.99 *	69.86 *	69.36 *	67.87 *	65.29 *	61.93 *	57.76 *	52.63 *	46.19 *	47.48 *
-1	34.96 *	69.84 *	69.35 *	67.89 *	65.32 *	61.97 *	57.79 *	52.65 *	46.27 *	47.68 *
	69.85 *	139.36 *	138.16 *	135.18 *	130.09 *	123.30 *	114.89 *	104.59 *	92.05 *	95.13 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	69.51 *	138.39 *	136.69 *	133.49 *	128.56 *	121.84 *	113.07 *	102.26 *	89.82 *	92.91 *
-5	68.39 *	136.01 *	134.00 *	130.52 *	125.48 *	118.75 *	109.71 *	98.42 *	85.91 *	88.81 *
-7	66.30 *	131.77 *	129.78 *	126.16 *	120.86 *	113.77 *	104.60 *	93.40 *	80.85 *	83.35 *
-9	63.47 *	125.90 *	123.79 *	120.15 *	114.58 *	107.14 *	97.88 *	87.04 *	74.91 *	76.94 *
-11	59.81 *	118.38 *	115.92 *	112.12 *	106.37 *	98.65 *	89.43 *	79.01 *	67.93 *	70.25 *
-13	55.18 *	108.99 *	106.12 *	101.84 *	95.93 *	88.36 *	79.54 *	70.05 *	60.43 *	63.47 *
-15	49.11 *	97.19 *	94.38 *	89.85 *	83.90 *	76.88 *	69.11 *	61.08 *	53.31 *	57.15 *
-17	51.53 *	102.37 *	99.45 *	94.43 *	87.88 *	80.37 *	72.74 *	65.20 *	58.07 *	63.62 *
-19.5	48.20 *	95.77 *	93.40 *	89.35 *	83.84 *	77.39 *	71.06 *	65.07 *	59.07 *	65.66 *
-22.5	36.75 *	73.00 *	71.67 *	69.39 *	66.02 *	61.86 *	57.70 *	53.62 *	49.29 *	55.33 *
-25.5	33.49 *	66.55 *	65.40 *	63.50 *	60.85 *	57.68 *	54.33 *	50.79 *	47.00 *	53.18 *
-29	29.10 *	57.73 *	56.66 *	55.02 *	52.93 *	50.56 *	47.92 *	44.96 *	41.78 *	47.46 *
-33	23.39 *	46.39 *	45.56 *	44.33 *	42.76 *	40.94 *	38.89 *	36.58 *	34.00 *	38.41 *
-37.5	16.66	33.14	32.56	31.65	30.52	29.15	27.55	25.71	23.66	26.49
-42.5	8.87	17.69	17.41	16.92	16.35	15.63	14.76	13.76	12.67	14.37
-47.5	6.43	12.92	12.85	12.63	12.36	11.99	11.55	11.02	10.43	12.26
-55	4.62	9.23	9.16	9.04	8.90	8.71	8.47	8.17	7.83	9.28
-65	2.06	4.12	4.09	4.04	3.99	3.93	3.86	3.77	3.67	4.43
-75	0.76	1.51	1.50	1.48	1.47	1.45	1.42	1.40	1.36	1.65
-85	0.09	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.21
-90										
Total	1529.86	3038.59	2981.53	2885.43	2750.57	2579.41	2376.5	2145.82	1894.64	2013.17

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	0.01	0.01	0.02	0.02	0.01
85	0.02	0.03	0.05	0.08	0.11	0.15	0.16	0.24	0.24	0.12
75	0.71	0.70	0.81	0.89	0.95	0.97	0.86	1.05	0.89	0.39
65	3.76	3.54	3.83	3.91	3.74	3.41	2.70	2.87	2.12	0.83
55	6.43	6.07	6.42	6.25	5.80	5.21	3.97	3.97	2.71	0.98

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5	7.56	6.63	6.74	6.56	6.06	5.23	3.94	3.87	2.48	0.85
42.5	15.75	12.69	11.63	10.14	8.72	7.26	5.29	5.11	3.18	1.03
37.5	26.75	21.70	19.39	15.47	11.49	8.79	6.18	5.77	3.58	1.10
33	36.84	30.46	27.85	22.59	15.76	10.41	6.78	6.28	3.78	1.12
29	44.25 *	36.80 *	34.06	28.34	20.06	12.15	7.11	6.50	3.75	1.10
25.5	48.14 *	40.02 *	37.08 *	31.13	22.54	13.39	7.12	6.21	3.52	1.02
22.5	58.48 *	48.42 *	44.77 *	37.71 *	27.79	16.65	8.28	6.69	3.81	1.09
19.5	57.16 *	46.93 *	43.27 *	36.50 *	27.18	16.49	7.90	5.97	3.41	0.96
17	51.62 *	41.92 *	38.48 *	32.39 *	24.22	14.88	7.02	5.08	2.88	0.80
15	57.10 *	45.85 *	41.84 *	35.06 *	26.27 *	16.42	7.72	5.35	3.00	0.83
13	62.58 *	49.64 *	45.08 *	37.63 *	28.23 *	17.88	8.37	5.60	3.11	0.86
11	68.53 *	53.47 *	48.18 *	40.04 *	30.06 *	19.19	8.95	5.83	3.21	0.88
9	74.67 *	57.25 *	51.04 *	42.20 *	31.71 *	20.33	9.45	6.03	3.30	0.90
7	79.73 *	60.32 *	53.37 *	44.02 *	33.11 *	21.28	9.87	6.20	3.37	0.92
5	83.46 *	62.54 *	55.10 *	45.46 *	34.21 *	22.06	10.26	6.37	3.44	0.94
3	85.82 *	64.01 *	56.30 *	46.45 *	34.96 *	22.58	10.52	6.50	3.49	0.95
1	43.36 *	32.32 *	28.46 *	23.47 *	17.65 *	11.39	5.31	3.28	1.76	0.48
0	43.58 *	32.47 *	28.56 *	23.55 *	17.70 *	11.42	5.34	3.30	1.77	0.48
-1	87.18 *	65.02 *	57.10 *	47.04 *	35.31 *	22.87	10.76	6.66	3.58	0.97
-3	85.45 *	64.16 *	56.51 *	46.68 *	35.06 *	22.71	10.73	6.69	3.60	0.98
-5	82.19 *	62.34 *	55.30 *	45.93 *	34.61 *	22.36	10.55	6.66	3.61	0.98
-7	77.87 *	59.82 *	53.58 *	44.80 *	33.88 *	21.86	10.31	6.61	3.60	0.98
-9	72.60 *	56.72 *	51.39 *	43.26 *	32.80 *	21.12	9.98	6.51	3.56	0.97
-11	67.26 *	53.45 *	48.89 *	41.34 *	31.40 *	20.16	9.55	6.37	3.51	0.97
-13	62.16 *	50.13 *	46.15 *	39.17 *	29.80 *	18.98	9.03	6.19	3.45	0.96
-15	57.06 *	46.57 *	43.18 *	36.82 *	28.04 *	17.69	8.43	5.98	3.37	0.95
-17	64.42 *	53.16 *	49.62 *	42.40 *	32.27 *	20.21	9.72	7.18	4.09	1.17
-19.5	67.45 *	56.24 *	52.81 *	45.18 *	34.19	21.19	10.53	8.32	4.71	1.36

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-40-GS.IES

LUMENS TABULATION - (Cont.)

-22.5	57.32 *	48.06 *	45.29 *	38.74 *	28.92	17.75	9.41	8.05	4.54	1.32
-25.5	55.42 *	46.45 *	43.68 *	37.08	27.11	16.86	9.76	8.85	5.06	1.47
-29	49.62 *	41.48 *	38.55	32.06	23.10	15.38	9.86	9.08	5.39	1.58
-33	39.81	32.93	30.03	24.51	18.43	13.99	9.65	8.86	5.45	1.63
-37.5	27.03	22.11	20.40	17.75	15.21	12.57	8.95	8.51	5.23	1.61
-42.5	15.17	13.13	13.12	12.70	11.73	9.97	7.39	7.15	4.42	1.40
-47.5	13.83	12.99	13.91	13.79	12.61	11.06	8.39	8.15	5.26	1.74
-55	10.47	9.87	10.75	10.94	10.30	9.11	6.97	7.07	4.82	1.68
-65	5.05	4.74	5.11	5.25	5.10	4.65	3.65	3.85	2.78	1.00
-75	1.90	1.80	1.96	2.05	2.03	1.90	1.51	1.63	1.21	0.45
-85	0.25	0.23	0.26	0.27	0.27	0.26	0.21	0.23	0.18	0.07
-90										
Total	1955.8	1555.19	1419.88	1197.6	910.50	600.20	318.47	246.67	144.24	42.89

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00	0.10	
85				
	0.03	0.00	1.25	
75				
	0.09	0.00	12.56	
65				
	0.16	0.00	58.31	
55				
	0.18	0.00	97.58	
47.5				
	0.16	0.00	124.50	
42.5				
	0.18	0.00	249.87	
37.5				
	0.19	0.00	396.06	
33				
	0.19	0.00	532.90	
29				
	0.18	0.00	641.44	
25.5				
	0.16	0.00	710.87	
22.5				
	0.17	0.00	902.90	
19.5				
	0.15	0.00	939.77	
17				
	0.12	0.00	893.43	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-40-GS.IES

LUMENS TABULATION - (Cont.)

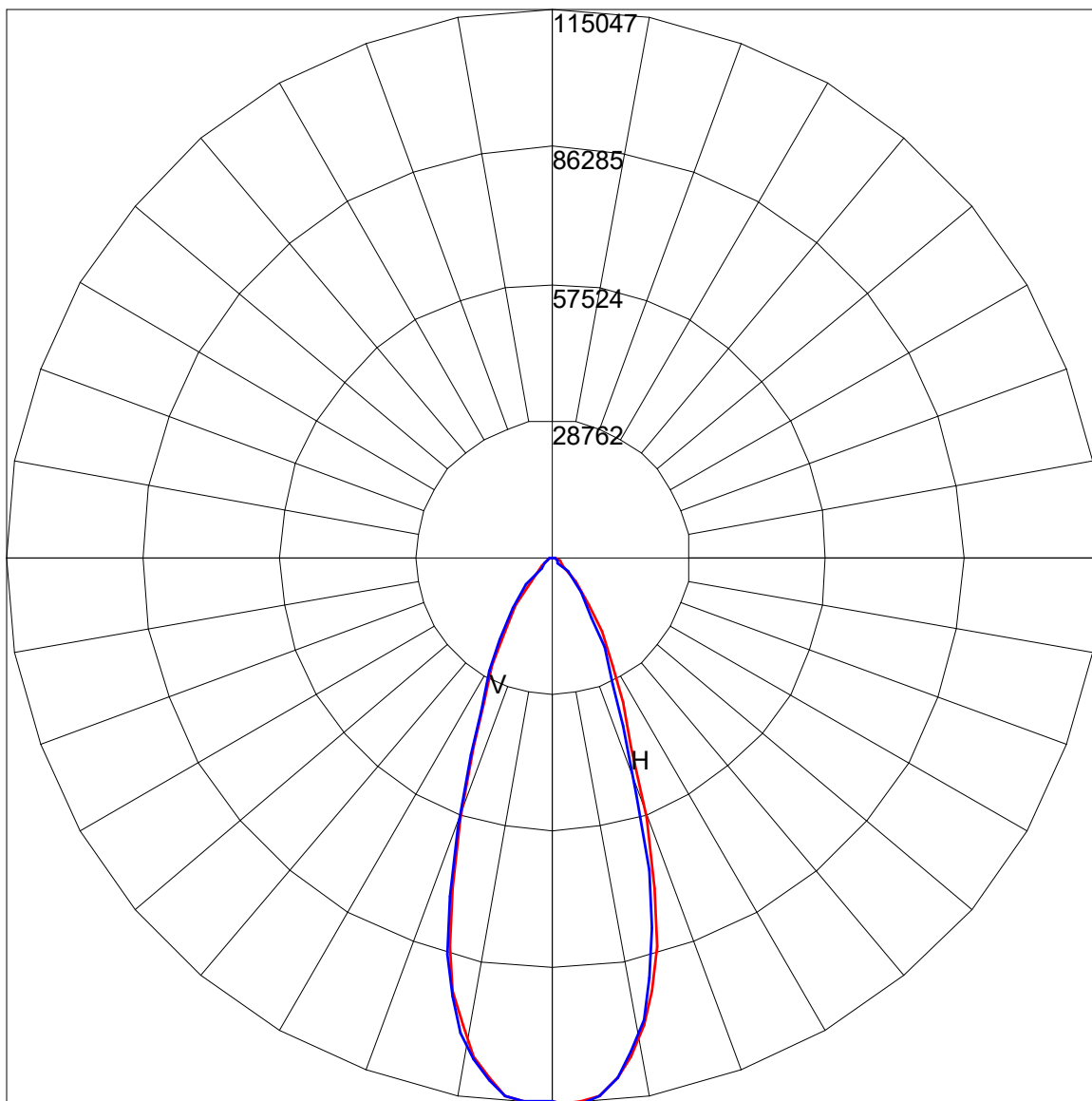
15	0.12	0.00	1020.36
13	0.13	0.00	1138.00
11	0.13	0.00	1242.00
9	0.13	0.00	1330.03
7	0.14	0.00	1397.76
5	0.14	0.00	1443.95
3	0.14	0.00	1471.1
1	0.07	0.00	740.89
0	0.07	0.00	741.95
-1	0.14	0.00	1479.22
-3	0.14	0.00	1459.24
-5	0.14	0.00	1420.65
-7	0.14	0.00	1364.31
-9	0.14	0.00	1290.85
-11	0.14	0.00	1200.94
-13	0.14	0.00	1096.06
-15	0.14	0.00	980.19
-17	0.18	0.00	1060.08
-19.5	0.21	0.00	1051.00
-22.5	0.20	0.00	854.25
-25.5	0.23	0.00	804.75
-29	0.25	0.00	710.47
-33	0.26	0.00	576.80
-37.5	0.27	0.00	416.72
-42.5	0.24	0.00	244.85
-47.5	0.30	0.01	216.47
-55	0.29	0.01	165.69
-65	0.18	0.00	79.31

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-MWF-40-GS.IES

LUMENS TABULATION - (Cont.)

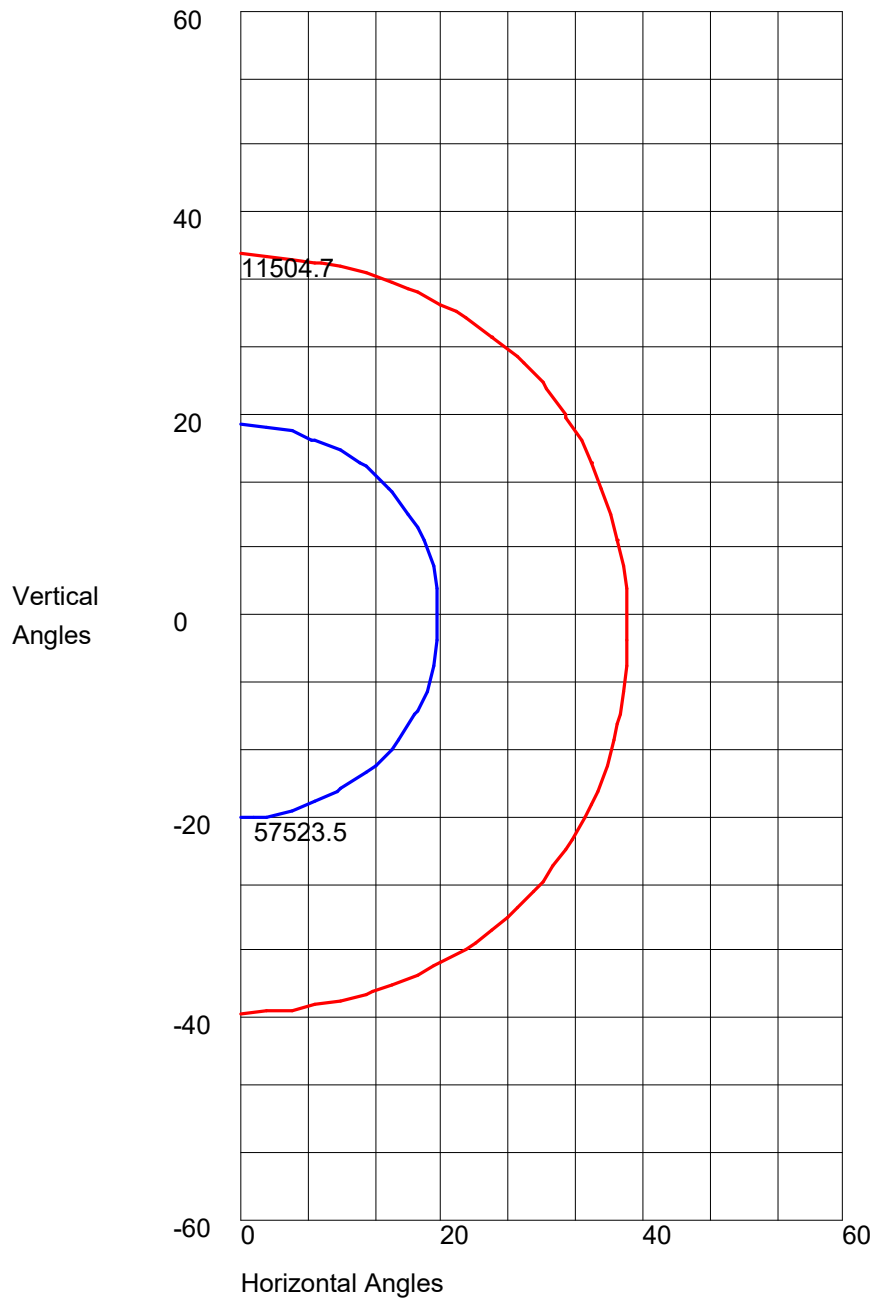
-75	0.09	0.00	30.53
-85	0.02	0.00	4.01
-90			
Total	6.86	0.12	32593.95

AXIAL CANDELA DISPLAY



Maximum Candela = 115047 Located At Horizontal Angle = 0, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 115047 Located At Horizontal Angle = 0, Vertical Angle = 3
50% Maximum Candela = 57523.5
10% Maximum Candela = 11504.7