



IES FLOOD REPORT

PHOTOMETRIC FILENAME : XFLM-SP-LED-28-HO-WW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5279
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/12/14
[TEST DATE]03/12/14
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XFLM-SP-LED-28-HO-WW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]3187
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

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

CHARACTERISTICS

NEMA Type	3 H x 3 V
Maximum Candela	24825
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	17.4
Vertical Beam Angle (50%)	15.1
Horizontal Field Angle (10%)	35.6
Vertical Field Angle (10%)	33.0
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1119
Beam Efficiency	N.A.
Field Lumens	2341
Field Efficiency	N.A.
Spill Lumens	850
Luminaire Lumens	3191
Total Efficiency	N.A.
Total Luminaire Watts	38.5
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	24	75	0
65	28	65	21
55	54	55	33
47.5	82	47.5	75
42.5	106	42.5	66
37.5	153	37.5	96
33	244	33	175
29	419	29	278
25.5	726	25.5	471
22.5	1176	22.5	805
19.5	1883	19.5	1403
17	2760	17	2269
15	3826	15	3201
13	5391	13	4558
11	7818	11	6587
9	11781	9	9463
7	16247	7	13254
5	20923	5	18064
3	24150	3	22142
1	24825	1	23764
0	23788	0	23788
-1	24825	-1	23764
-3	24150	-3	22142
-5	20923	-5	18064
-7	16247	-7	13254
-9	11781	-9	9463
-11	7818	-11	6587
-13	5391	-13	4558
-15	3826	-15	3201
-17	2760	-17	2269
-19.5	1883	-19.5	1403
-22.5	1176	-22.5	805
-25.5	726	-25.5	471
-29	419	-29	278
-33	244	-33	175
-37.5	153	-37.5	96
-42.5	106	-42.5	66
-47.5	82	-47.5	75
-55	54	-55	33
-65	28	-65	21
-75	24	-75	0
-85	0	-85	0
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 24825

Beam Edge = 12412.5 Cd (50% of Max.)

Field Edge = 2482.5 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	7	0	14	17	11	7	9	9	5
75.0	0	21	2	27	10	4	3	11	14	8
65.0	0	33	6	13	30	21	18	15	12	17
55.0	0	35	11	31	40	38	29	32	35	39
47.5	0	31	14	24	44	57	55	17	41	66
42.5	0	28	23	18	35	67	45	59	58	64
37.5	0	25	32	12	43	52	86	73	61	85
33.0	0	22	40	21	46	84	91	86	105	85
29.0	0	19	41	37	47	89	93	109	90	135
25.5	0	17	42	52	32	86	89	121	135	145
22.5	0	15	43	51	19	78	89	119	150	176
19.5	0	13	45	50	27	68	99	121	156	212
17.0	0	11	42	49	39	60	101	120	168	252
15.0	0	10	40	49	48	69	92	122	171	288
13.0	0	8	37	50	56	78	91	120	174	307
11.0	0	7	35	50	65	88	98	124	183	318
9.0	0	5	33	46	73	99	106	137	204	321
7.0	0	4	31	41	79	109	114	149	233	359
5.0	0	3	29	37	73	115	122	161	257	409
3.0	0	2	27	33	66	103	116	165	273	450
1.0	0	1	25	30	58	89	109	157	254	435
0.0	0	0	24	28	54	82	106	153	244	419
-1.0	0	1	25	30	58	89	109	157	254	435
-3.0	0	2	27	33	66	103	116	165	273	450
-5.0	0	3	29	37	73	115	122	161	257	409
-7.0	0	4	31	41	79	109	114	149	233	359
-9.0	0	5	33	46	73	99	106	137	204	321
-11.0	0	7	35	50	65	88	98	124	183	318
-13.0	0	8	37	50	56	78	91	120	174	307
-15.0	0	10	40	49	48	69	92	122	171	288
-17.0	0	11	42	49	39	60	101	120	168	252
-19.5	0	13	45	50	27	68	99	121	156	212
-22.5	0	15	43	51	19	78	89	119	150	176
-25.5	0	17	42	52	32	86	89	121	135	145
-29.0	0	19	41	37	47	89	93	109	90	135
-33.0	0	22	40	21	46	84	91	86	105	85
-37.5	0	25	32	12	43	52	86	73	61	85
-42.5	0	28	23	18	35	67	45	59	58	64
-47.5	0	31	14	24	44	57	55	17	41	66
-55.0	0	35	11	31	40	38	29	32	35	39
-65.0	0	33	6	13	30	21	18	15	12	17
-75.0	0	21	2	27	10	4	3	11	14	8
-85.0	0	7	0	14	17	11	7	9	9	5
-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	4	10	15	20	18	17	16	14	12
75.0	2	3	9	15	19	21	23	26	28	31
65.0	10	2	13	21	28	32	33	34	34	35
55.0	20	7	7	21	31	42	46	49	52	56
47.5	78	57	28	32	49	66	81	80	78	75
42.5	81	73	68	71	82	91	102	103	96	88
37.5	96	91	92	88	92	109	122	132	126	120
33.0	115	137	127	120	115	126	150	176	191	196
29.0	132	147	176	202	201	195	226	260	291	300
25.5	162	200	259	294	324	350	365	409	460	486
22.5	222	268	344	432	507	558	628	686	770	815
19.5	287	370	486	649	782	912	1031	1143	1271	1378
17.0	344	458	676	871	1088	1299	1512	1706	1895	2083
15.0	404	578	843	1117	1397	1682	1997	2293	2572 *	2866 *
13.0	466	691	1014	1397	1749	2132	2561 *	3043 *	3511 *	3934 *
11.0	517	826	1217	1681	2145	2660 *	3307 *	4035 *	4801 *	5559 *
9.0	557	904	1391	1942	2555 *	3309 *	4224 *	5337 *	6621 *	7841 *
7.0	609	988	1540	2214	3010 *	3998 *	5323 *	7056 *	8992 *	10928 *
5.0	669	1078	1680	2501 *	3381 *	4652 *	6501 *	8901 *	11827 *	14745 *
3.0	724	1152	1818	2671 *	3715 *	5220 *	7395 *	10484 *	14279 *	18198 *
1.0	735	1182	1887	2768 *	3935 *	5618 *	8154 *	11688 *	16030 *	20610 *
0.0	726	1176	1883	2760 *	3826 *	5391 *	7818 *	11781 *	16247 *	20923 *
-1.0	735	1182	1887	2768 *	3935 *	5618 *	8154 *	11688 *	16030 *	20610 *
-3.0	724	1152	1818	2671 *	3715 *	5220 *	7395 *	10484 *	14279 *	18198 *
-5.0	669	1078	1680	2501 *	3381 *	4652 *	6501 *	8901 *	11827 *	14745 *
-7.0	609	988	1540	2214	3010 *	3998 *	5323 *	7056 *	8992 *	10928 *
-9.0	557	904	1391	1942	2555 *	3309 *	4224 *	5337 *	6621 *	7841 *
-11.0	517	826	1217	1681	2145	2660 *	3307 *	4035 *	4801 *	5559 *
-13.0	466	691	1014	1397	1749	2132	2561 *	3043 *	3511 *	3934 *
-15.0	404	578	843	1117	1397	1682	1997	2293	2572 *	2866 *
-17.0	344	458	676	871	1088	1299	1512	1706	1895	2083
-19.5	287	370	486	649	782	912	1031	1143	1271	1378
-22.5	222	268	344	432	507	558	628	686	770	815
-25.5	162	200	259	294	324	350	365	409	460	486
-29.0	132	147	176	202	201	195	226	260	291	300
-33.0	115	137	127	120	115	126	150	176	191	196
-37.5	96	91	92	88	92	109	122	132	126	120
-42.5	81	73	68	71	82	91	102	103	96	88
-47.5	78	57	28	32	49	66	81	80	78	75
-55.0	20	7	7	21	31	42	46	49	52	56
-65.0	10	2	13	21	28	32	33	34	34	35
-75.0	2	3	9	15	19	21	23	26	28	31
-85.0	1	4	10	15	20	18	17	16	14	12
-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	7	2	0	2	7	12	14	16	17	18
75.0	19	6	0	6	19	31	28	26	23	21
65.0	30	24	21	24	30	35	34	34	33	32

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CANDELA TABULATION - (Cont.)

55.0	52	39	33	39	52	56	52	49	46	42
47.5	73	74	75	74	73	75	78	80	81	66
42.5	78	70	66	70	78	88	96	103	102	91
37.5	115	102	96	102	115	120	126	132	122	109
33.0	198	184	175	184	198	196	191	176	150	126
29.0	303	290	278	290	303	300	291	260	226	195
25.5	489	480	471	480	489	486	460	409	365	350
22.5	828	819	805	819	828	815	770	686	628	558
19.5	1428	1426	1403	1426	1428	1378	1271	1143	1031	912
17.0	2191	2246	2269	2246	2191	2083	1895	1706	1512	1299
15.0	3059 *	3152 *	3201 *	3152 *	3059 *	2866 *	2572 *	2293	1997	1682
13.0	4322 *	4635 *	4558 *	4635 *	4322 *	3934 *	3511 *	3043 *	2561 *	2132
11.0	6147 *	6711 *	6587 *	6711 *	6147 *	5559 *	4801 *	4035 *	3307 *	2660 *
9.0	8825 *	9627 *	9463 *	9627 *	8825 *	7841 *	6621 *	5337 *	4224 *	3309 *
7.0	12372 *	13454 *	13254 *	13454 *	12372 *	10928 *	8992 *	7056 *	5323 *	3998 *
5.0	16845 *	18233 *	18064 *	18233 *	16845 *	14745 *	11827 *	8901 *	6501 *	4652 *
3.0	21082 *	22289 *	22142 *	22289 *	21082 *	18198 *	14279 *	10484 *	7395 *	5220 *
1.0	23583 *	24307 *	23764 *	24307 *	23583 *	20610 *	16030 *	11688 *	8154 *	5618 *
0.0	24150 *	24825 *	23788 *	24825 *	24150 *	20923 *	16247 *	11781 *	7818 *	5391 *
-1.0	23583 *	24307 *	23764 *	24307 *	23583 *	20610 *	16030 *	11688 *	8154 *	5618 *
-3.0	21082 *	22289 *	22142 *	22289 *	21082 *	18198 *	14279 *	10484 *	7395 *	5220 *
-5.0	16845 *	18233 *	18064 *	18233 *	16845 *	14745 *	11827 *	8901 *	6501 *	4652 *
-7.0	12372 *	13454 *	13254 *	13454 *	12372 *	10928 *	8992 *	7056 *	5323 *	3998 *
-9.0	8825 *	9627 *	9463 *	9627 *	8825 *	7841 *	6621 *	5337 *	4224 *	3309 *
-11.0	6147 *	6711 *	6587 *	6711 *	6147 *	5559 *	4801 *	4035 *	3307 *	2660 *
-13.0	4322 *	4635 *	4558 *	4635 *	4322 *	3934 *	3511 *	3043 *	2561 *	2132
-15.0	3059 *	3152 *	3201 *	3152 *	3059 *	2866 *	2572 *	2293	1997	1682
-17.0	2191	2246	2269	2246	2191	2083	1895	1706	1512	1299
-19.5	1428	1426	1403	1426	1428	1378	1271	1143	1031	912
-22.5	828	819	805	819	828	815	770	686	628	558
-25.5	489	480	471	480	489	486	460	409	365	350
-29.0	303	290	278	290	303	300	291	260	226	195
-33.0	198	184	175	184	198	196	191	176	150	126
-37.5	115	102	96	102	115	120	126	132	122	109
-42.5	78	70	66	70	78	88	96	103	102	91
-47.5	73	74	75	74	73	75	78	80	81	66
-55.0	52	39	33	39	52	56	52	49	46	42
-65.0	30	24	21	24	30	35	34	34	33	32
-75.0	19	6	0	6	19	31	28	26	23	21
-85.0	7	2	0	2	7	12	14	16	17	18
-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	20	15	10	4	1	5	9	9	7	11
75.0	19	15	9	3	2	8	14	11	3	4
65.0	28	21	13	2	10	17	12	15	18	21
55.0	31	21	7	7	20	39	35	32	29	38
47.5	49	32	28	57	78	66	41	17	55	57
42.5	82	71	68	73	81	64	58	59	45	67
37.5	92	88	92	91	96	85	61	73	86	52
33.0	115	120	127	137	115	85	105	86	91	84
29.0	201	202	176	147	132	135	90	109	93	89
25.5	324	294	259	200	162	145	135	121	89	86

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CANDELA TABULATION - (Cont.)

22.5	507	432	344	268	222	176	150	119	89	78
19.5	782	649	486	370	287	212	156	121	99	68
17.0	1088	871	676	458	344	252	168	120	101	60
15.0	1397	1117	843	578	404	288	171	122	92	69
13.0	1749	1397	1014	691	466	307	174	120	91	78
11.0	2145	1681	1217	826	517	318	183	124	98	88
9.0	2555 *	1942	1391	904	557	321	204	137	106	99
7.0	3010 *	2214	1540	988	609	359	233	149	114	109
5.0	3381 *	2501 *	1680	1078	669	409	257	161	122	115
3.0	3715 *	2671 *	1818	1152	724	450	273	165	116	103
1.0	3935 *	2768 *	1887	1182	735	435	254	157	109	89
0.0	3826 *	2760 *	1883	1176	726	419	244	153	106	82
-1.0	3935 *	2768 *	1887	1182	735	435	254	157	109	89
-3.0	3715 *	2671 *	1818	1152	724	450	273	165	116	103
-5.0	3381 *	2501 *	1680	1078	669	409	257	161	122	115
-7.0	3010 *	2214	1540	988	609	359	233	149	114	109
-9.0	2555 *	1942	1391	904	557	321	204	137	106	99
-11.0	2145	1681	1217	826	517	318	183	124	98	88
-13.0	1749	1397	1014	691	466	307	174	120	91	78
-15.0	1397	1117	843	578	404	288	171	122	92	69
-17.0	1088	871	676	458	344	252	168	120	101	60
-19.5	782	649	486	370	287	212	156	121	99	68
-22.5	507	432	344	268	222	176	150	119	89	78
-25.5	324	294	259	200	162	145	135	121	89	86
-29.0	201	202	176	147	132	135	90	109	93	89
-33.0	115	120	127	137	115	85	105	86	91	84
-37.5	92	88	92	91	96	85	61	73	86	52
-42.5	82	71	68	73	81	64	58	59	45	67
-47.5	49	32	28	57	78	66	41	17	55	57
-55.0	31	21	7	7	20	39	35	32	29	38
-65.0	28	21	13	2	10	17	12	15	18	21
-75.0	19	15	9	3	2	8	14	11	3	4
-85.0	20	15	10	4	1	5	9	9	7	11
-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	17	14	0	7	0
75.0	10	27	2	21	0
65.0	30	13	6	33	0
55.0	40	31	11	35	0
47.5	44	24	14	31	0
42.5	35	18	23	28	0
37.5	43	12	32	25	0
33.0	46	21	40	22	0
29.0	47	37	41	19	0
25.5	32	52	42	17	0
22.5	19	51	43	15	0
19.5	27	50	45	13	0
17.0	39	49	42	11	0
15.0	48	49	40	10	0
13.0	56	50	37	8	0
11.0	65	50	35	7	0
9.0	73	46	33	5	0

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CANDELA TABULATION - (Cont.)

7.0	79	41	31	4	0
5.0	73	37	29	3	0
3.0	66	33	27	2	0
1.0	58	30	25	1	0
0.0	54	28	24	0	0
-1.0	58	30	25	1	0
-3.0	66	33	27	2	0
-5.0	73	37	29	3	0
-7.0	79	41	31	4	0
-9.0	73	46	33	5	0
-11.0	65	50	35	7	0
-13.0	56	50	37	8	0
-15.0	48	49	40	10	0
-17.0	39	49	42	11	0
-19.5	27	50	45	13	0
-22.5	19	51	43	15	0
-25.5	32	52	42	17	0
-29.0	47	37	41	19	0
-33.0	46	21	40	22	0
-37.5	43	12	32	25	0
-42.5	35	18	23	28	0
-47.5	44	24	14	31	0
-55.0	40	31	11	35	0
-65.0	30	13	6	33	0
-75.0	10	27	2	21	0
-85.0	17	14	0	7	0
-90.0	0	0	0	0	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1595.69

Total Field Lumens (one side of beam only) = 1170.71

* 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	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.02
75	0.01	0.05	0.10	0.13	0.13	0.12	0.12	0.12	0.10	0.09
65	0.04	0.12	0.17	0.19	0.18	0.17	0.16	0.15	0.12	0.10
55	0.09	0.22	0.26	0.27	0.25	0.24	0.23	0.20	0.15	0.11
47.5	0.13	0.27	0.29	0.30	0.29	0.29	0.26	0.21	0.15	0.12
42.5	0.11	0.22	0.24	0.26	0.27	0.27	0.25	0.21	0.17	0.18
37.5	0.13	0.28	0.30	0.33	0.34	0.34	0.32	0.28	0.24	0.29
33	0.19	0.41	0.43	0.43	0.42	0.39	0.34	0.29	0.27	0.35
29	0.28	0.59	0.61	0.59	0.55	0.49	0.42	0.38	0.37	0.45
25.5	0.40	0.83	0.84	0.81	0.75	0.66	0.59	0.55	0.52	0.59
22.5	0.59	1.19	1.19	1.15	1.05	0.94	0.85	0.77	0.68	0.72
19.5	1.02	2.06	2.03	1.92	1.75	1.57	1.40	1.22	1.04	1.04
17	1.40	2.77	2.69	2.51	2.27	2.02	1.77	1.51	1.24	1.21
15	1.66 *	3.24 *	3.10 *	2.85	2.55	2.25	1.93	1.62	1.31	1.27
13	2.37 *	4.62 *	4.31 *	3.90 *	3.44 *	2.97	2.49	2.06	1.66	1.58
11	3.43 *	6.64 *	6.07 *	5.39 *	4.64 *	3.88 *	3.18 *	2.57	2.04	1.92
9	4.93 *	9.53 *	8.62 *	7.52 *	6.27 *	5.07 *	4.02 *	3.15 *	2.44	2.25
7	6.98 *	13.48 *	12.14 *	10.42 *	8.45 *	6.58 *	5.02 *	3.80 *	2.85	2.56
5	9.60 *	18.54 *	16.68 *	14.08 *	11.09 *	8.33 *	6.10 *	4.45 *	3.25 *	2.87
3	12.29 *	23.88 *	21.53 *	17.89 *	13.72 *	9.98 *	7.08 *	5.01 *	3.59 *	3.13
1	14.09 *	27.78 *	25.36 *	20.94 *	15.83 *	11.32 *	7.86 *	5.46 *	3.83 *	3.31
0	7.36 *	14.74 *	13.56 *	11.18 *	8.41 *	5.92 *	4.02 *	2.77 *	1.95 *	1.68
-1	7.36 *	14.74 *	13.56 *	11.18 *	8.41 *	5.92 *	4.02 *	2.77 *	1.95 *	1.68
	14.09 *	27.78 *	25.36 *	20.94 *	15.83 *	11.32 *	7.86 *	5.46 *	3.83 *	3.31

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	12.29 *	23.88 *	21.53 *	17.89 *	13.72 *	9.98 *	7.08 *	5.01 *	3.59 *	3.13
-5	9.60 *	18.54 *	16.68 *	14.08 *	11.09 *	8.33 *	6.10 *	4.45 *	3.25 *	2.87
-7	6.98 *	13.48 *	12.14 *	10.42 *	8.45 *	6.58 *	5.02 *	3.80 *	2.85	2.56
-9	4.93 *	9.53 *	8.62 *	7.52 *	6.27 *	5.07 *	4.02 *	3.15 *	2.44	2.25
-11	3.43 *	6.64 *	6.07 *	5.39 *	4.64 *	3.88 *	3.18 *	2.57	2.04	1.92
-13	2.37 *	4.62 *	4.31 *	3.90 *	3.44 *	2.97	2.49	2.06	1.66	1.58
-15	1.66 *	3.24 *	3.10 *	2.85	2.55	2.25	1.93	1.62	1.31	1.27
-17	1.40	2.77	2.69	2.51	2.27	2.02	1.77	1.51	1.24	1.21
-19.5	1.02	2.06	2.03	1.92	1.75	1.57	1.40	1.22	1.04	1.04
-22.5	0.59	1.19	1.19	1.15	1.05	0.94	0.85	0.77	0.68	0.72
-25.5	0.40	0.83	0.84	0.81	0.75	0.66	0.59	0.55	0.52	0.59
-29	0.28	0.59	0.61	0.59	0.55	0.49	0.42	0.38	0.37	0.45
-33	0.19	0.41	0.43	0.43	0.42	0.39	0.34	0.29	0.27	0.35
-37.5	0.13	0.28	0.30	0.33	0.34	0.34	0.32	0.28	0.24	0.29
-42.5	0.11	0.22	0.24	0.26	0.27	0.27	0.25	0.21	0.17	0.18
-47.5	0.13	0.27	0.29	0.30	0.29	0.29	0.26	0.21	0.15	0.12
-55	0.09	0.22	0.26	0.27	0.25	0.24	0.23	0.20	0.15	0.11
-65	0.04	0.12	0.17	0.19	0.18	0.17	0.16	0.15	0.12	0.10
-75	0.01	0.05	0.10	0.13	0.13	0.12	0.12	0.12	0.10	0.09
-85	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.02
-90										
Total	134.15	262.98	241.11	206.17	165.41	127.69	96.89	73.61	56.01	51.70

Vert. Angles	Horizontal Angles									
	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
90										
85	0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.05	0.06	0.02
75	0.06	0.02	0.04	0.09	0.12	0.09	0.07	0.15	0.26	0.11
65	0.06	0.04	0.09	0.13	0.15	0.14	0.12	0.23	0.30	0.12
55	0.06	0.08	0.20	0.27	0.26	0.27	0.29	0.46	0.43	0.16
55	0.16	0.25	0.36	0.35	0.26	0.29	0.36	0.48	0.40	0.16

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-SP-LED-28-HO-WW.IES

LUMENS TABULATION - (Cont.)

47.5										
	0.24	0.30	0.34	0.30	0.24	0.26	0.30	0.36	0.23	0.10
42.5										
	0.35	0.36	0.39	0.35	0.35	0.38	0.34	0.35	0.21	0.11
37.5										
	0.43	0.41	0.41	0.39	0.41	0.44	0.38	0.36	0.21	0.12
33										
	0.50	0.44	0.44	0.43	0.44	0.44	0.38	0.38	0.23	0.14
29										
	0.58	0.47	0.48	0.46	0.45	0.42	0.34	0.32	0.22	0.16
25.5										
	0.69	0.53	0.50	0.47	0.44	0.37	0.28	0.23	0.18	0.15
22.5										
	0.94	0.72	0.64	0.54	0.46	0.37	0.27	0.21	0.17	0.15
19.5										
	1.06	0.76	0.65	0.51	0.40	0.32	0.22	0.17	0.16	0.12
17										
	1.09	0.74	0.61	0.46	0.33	0.25	0.17	0.15	0.14	0.09
15										
	1.33	0.89	0.69	0.49	0.33	0.25	0.18	0.18	0.15	0.09
13										
	1.60	1.04	0.76	0.51	0.34	0.25	0.19	0.21	0.17	0.09
11										
	1.85	1.17	0.81	0.54	0.36	0.27	0.21	0.23	0.18	0.09
9										
	2.06	1.28	0.87	0.58	0.40	0.30	0.23	0.26	0.18	0.08
7										
	2.25	1.40	0.97	0.66	0.45	0.32	0.25	0.27	0.17	0.07
5										
	2.44	1.51	1.07	0.73	0.48	0.33	0.25	0.26	0.16	0.07
3										
	2.58	1.58	1.11	0.74	0.48	0.32	0.22	0.23	0.14	0.06
1										
	1.31	0.80	0.55	0.35	0.23	0.15	0.10	0.10	0.06	0.03
0										
	1.31	0.80	0.55	0.35	0.23	0.15	0.10	0.10	0.06	0.03
-1										
	2.58	1.58	1.11	0.74	0.48	0.32	0.22	0.23	0.14	0.06
-3										
	2.44	1.51	1.07	0.73	0.48	0.33	0.25	0.26	0.16	0.07
-5										
	2.25	1.40	0.97	0.66	0.45	0.32	0.25	0.27	0.17	0.07
-7										
	2.06	1.28	0.87	0.58	0.40	0.30	0.23	0.26	0.18	0.08
-9										
	1.85	1.17	0.81	0.54	0.36	0.27	0.21	0.23	0.18	0.09
-11										
	1.60	1.04	0.76	0.51	0.34	0.25	0.19	0.21	0.17	0.09
-13										
	1.33	0.89	0.69	0.49	0.33	0.25	0.18	0.18	0.15	0.09
-15										
	1.09	0.74	0.61	0.46	0.33	0.25	0.17	0.15	0.14	0.09
-17										
	1.06	0.76	0.65	0.51	0.40	0.32	0.22	0.17	0.16	0.12
-19.5										
	0.94	0.72	0.64	0.54	0.46	0.37	0.27	0.21	0.17	0.15

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	0.69	0.53	0.50	0.47	0.44	0.37	0.28	0.23	0.18	0.15
-25.5	0.58	0.47	0.48	0.46	0.45	0.42	0.34	0.32	0.22	0.16
-29	0.50	0.44	0.44	0.43	0.44	0.44	0.38	0.38	0.23	0.14
-33	0.43	0.41	0.41	0.39	0.41	0.44	0.38	0.36	0.21	0.12
-37.5	0.35	0.36	0.39	0.35	0.35	0.38	0.34	0.35	0.21	0.11
-42.5	0.24	0.30	0.34	0.30	0.24	0.26	0.30	0.36	0.23	0.10
-47.5	0.16	0.25	0.36	0.35	0.26	0.29	0.36	0.48	0.40	0.16
-55	0.06	0.08	0.20	0.27	0.26	0.27	0.29	0.46	0.43	0.16
-65	0.06	0.04	0.09	0.13	0.15	0.14	0.12	0.23	0.30	0.12
-75	0.06	0.02	0.04	0.09	0.12	0.09	0.07	0.15	0.26	0.11
-85	0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.05	0.06	0.02
-90	0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.05	0.06	0.02
Total	43.29	29.61	23.97	18.79	14.76	12.52	10.34	11.27	8.83	4.57

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.00	0.00	0.44	
85				
	0.04	0.00	2.01	
75				
	0.08	0.01	2.89	
65				
	0.11	0.01	4.64	
55				
	0.09	0.01	5.48	
47.5				
	0.06	0.00	4.94	
42.5				
	0.07	0.00	6.10	
37.5				
	0.07	0.00	7.17	
33				
	0.06	0.00	8.64	
29				
	0.06	0.00	10.51	
25.5				
	0.05	0.00	13.02	
22.5				
	0.05	0.00	19.55	
19.5				
	0.04	0.00	23.80	
17				
	0.03	0.00	25.85	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-SP-LED-28-HO-WW.IES

LUMENS TABULATION - (Cont.)

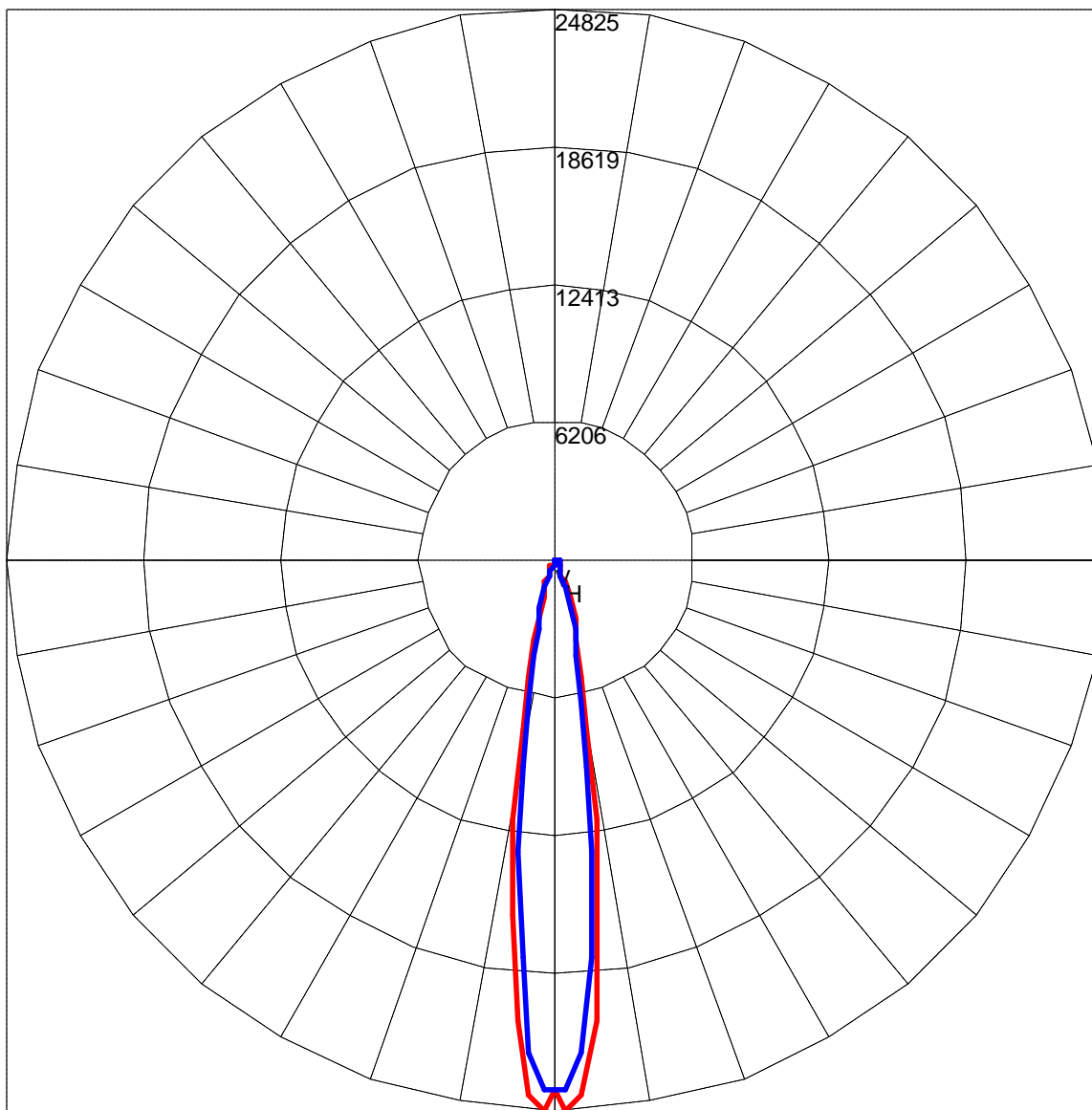
15	0.03	0.00	34.01
13	0.02	0.00	44.94
11	0.02	0.00	59.54
9	0.02	0.00	78.54
7	0.02	0.00	101.82
5	0.02	0.00	125.42
3	0.01	0.00	143.25
1	0.01	0.00	75.28
0	0.01	0.00	75.28
-1	0.01	0.00	143.25
-3	0.02	0.00	125.42
-5	0.02	0.00	101.82
-7	0.02	0.00	78.54
-9	0.02	0.00	59.54
-11	0.02	0.00	44.94
-13	0.03	0.00	34.01
-15	0.03	0.00	25.85
-17	0.04	0.00	23.80
-19.5	0.05	0.00	19.55
-22.5	0.05	0.00	13.02
-25.5	0.06	0.00	10.51
-29	0.06	0.00	8.64
-33	0.07	0.00	7.17
-37.5	0.07	0.00	6.10
-42.5	0.06	0.00	4.94
-47.5	0.09	0.01	5.48
-55	0.11	0.01	4.64
-65	0.08	0.01	2.89

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-SP-LED-28-HO-WW.IES

LUMENS TABULATION - (Cont.)

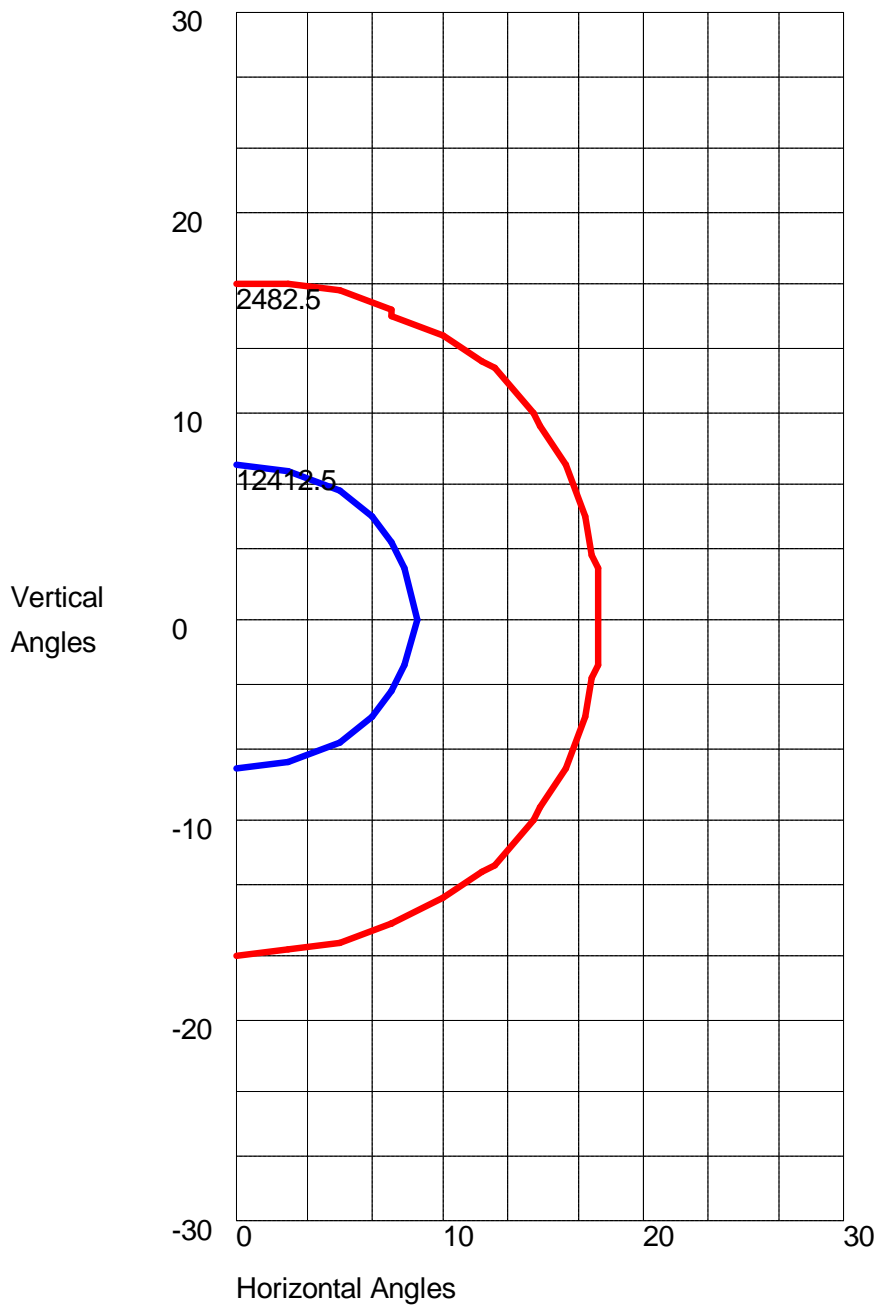
-75	0.04	0.00	2.01
-85	0.00	0.00	0.44
-90			
Total	1.91	0.12	1595.69

AXIAL CANDELA DISPLAY



Maximum Candela = 24825 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 24825 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 12412.5
10% Maximum Candela = 2482.5