



IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFL-LED-12L-PC-WF-50-80.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12453
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 03/05/21
[TEST DATE] 01/21/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] PFL-LED-12L-PC-WF-50-80
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[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	9636
Maximum Candela Angle	-3H 0V
Horizontal Beam Angle (50%)	71.5
Vertical Beam Angle (50%)	70.9
Horizontal Field Angle (10%)	90.2
Vertical Field Angle (10%)	89.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	9361
Beam Efficiency	N.A.
Field Lumens	10889
Field Efficiency	N.A.
Spill Lumens	937
Luminaire Lumens	11826
Total Efficiency	N.A.
Total Luminaire Watts	102
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	33	85	38
75	101	75	106
65	197	65	204
55	313	55	304
47.5	528	47.5	506
42.5	1428	42.5	1349
37.5	3959	37.5	3872
33	6192	33	6076
29	7483	29	7359
25.5	8185	25.5	8087
22.5	8612	22.5	8524
19.5	8929	19.5	8833
17	9139	17	9034
15	9276	15	9162
13	9380	13	9266
11	9467	11	9348
9	9536	9	9411
7	9588	7	9458
5	9623	5	9488
3	9636	3	9499
1	9585	1	9530
0	9549	0	9549
-1	9585	-1	9530
-3	9636	-3	9499
-5	9623	-5	9488
-7	9588	-7	9458
-9	9536	-9	9411
-11	9467	-11	9348
-13	9380	-13	9266
-15	9276	-15	9162
-17	9139	-17	9034
-19.5	8929	-19.5	8833
-22.5	8612	-22.5	8524
-25.5	8185	-25.5	8087
-29	7483	-29	7359
-33	6192	-33	6076
-37.5	3959	-37.5	3872
-42.5	1428	-42.5	1349
-47.5	528	-47.5	506
-55	313	-55	304
-65	197	-65	204
-75	101	-75	106
-85	33	-85	38
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 9636

Beam Edge = 4818 Cd (50% of Max.)

Field Edge = 963.6 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	10	16	22	25	27	29	31	32
75.0	0	10	30	49	66	75	80	88	96	101
65.0	0	16	47	80	107	126	139	151	160	169
55.0	0	21	61	104	146	177	198	217	232	245
47.5	0	24	71	121	177	216	242	269	291	316
42.5	0	26	77	133	197	241	271	309	356	408
37.5	0	27	82	143	215	267	309	376	479	659
33.0	0	29	86	153	231	291	356	479	741	1296 *
29.0	0	30	90	161	245	318	409	665	1328 *	2547 *
25.5	0	31	92	167	256	342	478	967 *	2202 *	3754 *
22.5	0	31	94	172	264	370	561	1340 *	3025 *	4723 *
19.5	0	32	96	177	274	395	680	1856 *	3851 *	5548 *
17.0	0	32	97	181	282	419	769	2282 *	4446 *	6086 *
15.0	0	32	98	184	288	443	895	2586 *	4867 *	6459 *
13.0	0	32	99	186	293	464	1025 *	2929 *	5243 *	6720 *
11.0	0	33	100	189	298	482	1138 *	3234 *	5530 *	6950 *
9.0	0	33	100	191	303	497	1232 *	3489 *	5752 *	7147 *
7.0	0	33	101	193	306	510	1308 *	3688 *	5928 *	7285 *
5.0	0	33	101	195	309	519	1366 *	3833 *	6061 *	7374 *
3.0	0	33	101	196	312	528	1427 *	3923 *	6149 *	7434 *
1.0	0	33	101	197	313	528	1428 *	3966 *	6190 *	7474 *
0.0	0	33	101	197	313	528	1428 *	3959 *	6192 *	7483 *
-1.0	0	33	101	197	313	528	1428 *	3966 *	6190 *	7474 *
-3.0	0	33	101	196	312	528	1427 *	3923 *	6149 *	7434 *
-5.0	0	33	101	195	309	519	1366 *	3833 *	6061 *	7374 *
-7.0	0	33	101	193	306	510	1308 *	3688 *	5928 *	7285 *
-9.0	0	33	100	191	303	497	1232 *	3489 *	5752 *	7147 *
-11.0	0	33	100	189	298	482	1138 *	3234 *	5530 *	6950 *
-13.0	0	32	99	186	293	464	1025 *	2929 *	5243 *	6720 *
-15.0	0	32	98	184	288	443	895	2586 *	4867 *	6459 *
-17.0	0	32	97	181	282	419	769	2282 *	4446 *	6086 *
-19.5	0	32	96	177	274	395	680	1856 *	3851 *	5548 *
-22.5	0	31	94	172	264	370	561	1340 *	3025 *	4723 *
-25.5	0	31	92	167	256	342	478	967 *	2202 *	3754 *
-29.0	0	30	90	161	245	318	409	665	1328 *	2547 *
-33.0	0	29	86	153	231	291	356	479	741	1296 *
-37.5	0	27	82	143	215	267	309	376	479	659
-42.5	0	26	77	133	197	241	271	309	356	408
-47.5	0	24	71	121	177	216	242	269	291	316
-55.0	0	21	61	104	146	177	198	217	232	245
-65.0	0	16	47	80	107	126	139	151	160	169
-75.0	0	10	30	49	66	75	80	88	96	101
-85.0	0	3	10	16	22	25	27	29	31	32
-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	34	35	36	36	37	37	38	38	38	38
75.0	105	107	108	108	108	108	108	108	107	107
65.0	176	181	185	188	190	193	195	197	200	202
55.0	254	262	270	276	281	285	289	293	297	300
47.5	338	364	387	409	431	451	468	482	494	503
42.5	478	555	663	742	855	974 *	1077 *	1163 *	1232 *	1284 *
37.5	939	1271 *	1751 *	2152 *	2439 *	2774 *	3069 *	3323 *	3533 *	3692 *
33.0	2145 *	2938 *	3736 *	4293 *	4686 *	5062 *	5371 *	5612 *	5794 *	5926 *
29.0	3728 *	4674 *	5478 *	5997 *	6365 *	6619 *	6846 *	7040 *	7177 *	7262 *
25.5	5047 *	5925 *	6610 *	7058 *	7319 *	7534 *	7729 *	7847 *	7937 *	8010 *
22.5	5946 *	6727 *	7309 *	7669 *	7895 *	8073 *	8222 *	8319 *	8397 *	8459 *
19.5	6650 *	7327 *	7814 *	8112 *	8308 *	8457 *	8578 *	8659 *	8729 *	8786 *
17.0	7100 *	7695 *	8119 *	8386 *	8567 *	8692 *	8800 *	8874 *	8932 *	8981 *
15.0	7370 *	7920 *	8318 *	8574 *	8721 *	8852 *	8942 *	9018 *	9065 *	9107 *
13.0	7587 *	8100 *	8474 *	8712 *	8867 *	8978 *	9069 *	9133 *	9182 *	9213 *
11.0	7780 *	8257 *	8610 *	8839 *	8977 *	9090 *	9174 *	9235 *	9277 *	9302 *
9.0	7913 *	8370 *	8711 *	8931 *	9075 *	9185 *	9266 *	9324 *	9358 *	9379 *
7.0	8016 *	8465 *	8800 *	9013 *	9149 *	9263 *	9345 *	9400 *	9432 *	9443 *
5.0	8096 *	8539 *	8871 *	9087 *	9216 *	9321 *	9406 *	9466 *	9500 *	9504 *
3.0	8153 *	8588 *	8911 *	9125 *	9258 *	9365 *	9453 *	9517 *	9559 *	9571 *
1.0	8182 *	8613 *	8929 *	9139 *	9278 *	9381 *	9469 *	9539 *	9590 *	9625 *
0.0	8185 *	8612 *	8929 *	9139 *	9276 *	9380 *	9467 *	9536 *	9588 *	9623 *
-1.0	8182 *	8613 *	8929 *	9139 *	9278 *	9381 *	9469 *	9539 *	9590 *	9625 *
-3.0	8153 *	8588 *	8911 *	9125 *	9258 *	9365 *	9453 *	9517 *	9559 *	9571 *
-5.0	8096 *	8539 *	8871 *	9087 *	9216 *	9321 *	9406 *	9466 *	9500 *	9504 *
-7.0	8016 *	8465 *	8800 *	9013 *	9149 *	9263 *	9345 *	9400 *	9432 *	9443 *
-9.0	7913 *	8370 *	8711 *	8931 *	9075 *	9185 *	9266 *	9324 *	9358 *	9379 *
-11.0	7780 *	8257 *	8610 *	8839 *	8977 *	9090 *	9174 *	9235 *	9277 *	9302 *
-13.0	7587 *	8100 *	8474 *	8712 *	8867 *	8978 *	9069 *	9133 *	9182 *	9213 *
-15.0	7370 *	7920 *	8318 *	8574 *	8721 *	8852 *	8942 *	9018 *	9065 *	9107 *
-17.0	7100 *	7695 *	8119 *	8386 *	8567 *	8692 *	8800 *	8874 *	8932 *	8981 *
-19.5	6650 *	7327 *	7814 *	8112 *	8308 *	8457 *	8578 *	8659 *	8729 *	8786 *
-22.5	5946 *	6727 *	7309 *	7669 *	7895 *	8073 *	8222 *	8319 *	8397 *	8459 *
-25.5	5047 *	5925 *	6610 *	7058 *	7319 *	7534 *	7729 *	7847 *	7937 *	8010 *
-29.0	3728 *	4674 *	5478 *	5997 *	6365 *	6619 *	6846 *	7040 *	7177 *	7262 *
-33.0	2145 *	2938 *	3736 *	4293 *	4686 *	5062 *	5371 *	5612 *	5794 *	5926 *
-37.5	939	1271 *	1751 *	2152 *	2439 *	2774 *	3069 *	3323 *	3533 *	3692 *
-42.5	478	555	663	742	855	974 *	1077 *	1163 *	1232 *	1284 *
-47.5	338	364	387	409	431	451	468	482	494	503
-55.0	254	262	270	276	281	285	289	293	297	300
-65.0	176	181	185	188	190	193	195	197	200	202
-75.0	105	107	108	108	108	108	108	108	107	107
-85.0	34	35	36	36	37	37	38	38	38	38
-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	38	38	38	38	38	38	38	38	38	37
75.0	107	106	106	106	107	107	107	108	108	108
65.0	203	204	204	204	203	202	200	197	195	193

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CANDELA TABULATION - (Cont.)

55.0	303	304	304	304	303	300	297	293	289	285
47.5	511	508	506	508	511	503	494	482	468	451
42.5	1339 *	1346 *	1349 *	1346 *	1339 *	1284 *	1232 *	1163 *	1077 *	974 *
37.5	3800 *	3867 *	3872 *	3867 *	3800 *	3692 *	3533 *	3323 *	3069 *	2774 *
33.0	6012 *	6066 *	6076 *	6066 *	6012 *	5926 *	5794 *	5612 *	5371 *	5062 *
29.0	7318 *	7352 *	7359 *	7352 *	7318 *	7262 *	7177 *	7040 *	6846 *	6619 *
25.5	8061 *	8085 *	8087 *	8085 *	8061 *	8010 *	7937 *	7847 *	7729 *	7534 *
22.5	8502 *	8526 *	8524 *	8526 *	8502 *	8459 *	8397 *	8319 *	8222 *	8073 *
19.5	8821 *	8835 *	8833 *	8835 *	8821 *	8786 *	8729 *	8659 *	8578 *	8457 *
17.0	9013 *	9030 *	9034 *	9030 *	9013 *	8981 *	8932 *	8874 *	8800 *	8692 *
15.0	9139 *	9160 *	9162 *	9160 *	9139 *	9107 *	9065 *	9018 *	8942 *	8852 *
13.0	9240 *	9261 *	9266 *	9261 *	9240 *	9213 *	9182 *	9133 *	9069 *	8978 *
11.0	9322 *	9342 *	9348 *	9342 *	9322 *	9302 *	9277 *	9235 *	9174 *	9090 *
9.0	9390 *	9405 *	9411 *	9405 *	9390 *	9379 *	9358 *	9324 *	9266 *	9185 *
7.0	9443 *	9453 *	9458 *	9453 *	9443 *	9443 *	9432 *	9400 *	9345 *	9263 *
5.0	9490 *	9483 *	9488 *	9483 *	9490 *	9504 *	9500 *	9466 *	9406 *	9321 *
3.0	9543 *	9494 *	9499 *	9494 *	9543 *	9571 *	9559 *	9517 *	9453 *	9365 *
1.0	9627 *	9551 *	9530 *	9551 *	9627 *	9625 *	9590 *	9539 *	9469 *	9381 *
0.0	9636 *	9585 *	9549 *	9585 *	9636 *	9623 *	9588 *	9536 *	9467 *	9380 *
-1.0	9627 *	9551 *	9530 *	9551 *	9627 *	9625 *	9590 *	9539 *	9469 *	9381 *
-3.0	9543 *	9494 *	9499 *	9494 *	9543 *	9571 *	9559 *	9517 *	9453 *	9365 *
-5.0	9490 *	9483 *	9488 *	9483 *	9490 *	9504 *	9500 *	9466 *	9406 *	9321 *
-7.0	9443 *	9453 *	9458 *	9453 *	9443 *	9443 *	9432 *	9400 *	9345 *	9263 *
-9.0	9390 *	9405 *	9411 *	9405 *	9390 *	9379 *	9358 *	9324 *	9266 *	9185 *
-11.0	9322 *	9342 *	9348 *	9342 *	9322 *	9302 *	9277 *	9235 *	9174 *	9090 *
-13.0	9240 *	9261 *	9266 *	9261 *	9240 *	9213 *	9182 *	9133 *	9069 *	8978 *
-15.0	9139 *	9160 *	9162 *	9160 *	9139 *	9107 *	9065 *	9018 *	8942 *	8852 *
-17.0	9013 *	9030 *	9034 *	9030 *	9013 *	8981 *	8932 *	8874 *	8800 *	8692 *
-19.5	8821 *	8835 *	8833 *	8835 *	8821 *	8786 *	8729 *	8659 *	8578 *	8457 *
-22.5	8502 *	8526 *	8524 *	8526 *	8502 *	8459 *	8397 *	8319 *	8222 *	8073 *
-25.5	8061 *	8085 *	8087 *	8085 *	8061 *	8010 *	7937 *	7847 *	7729 *	7534 *
-29.0	7318 *	7352 *	7359 *	7352 *	7318 *	7262 *	7177 *	7040 *	6846 *	6619 *
-33.0	6012 *	6066 *	6076 *	6066 *	6012 *	5926 *	5794 *	5612 *	5371 *	5062 *
-37.5	3800 *	3867 *	3872 *	3867 *	3800 *	3692 *	3533 *	3323 *	3069 *	2774 *
-42.5	1339 *	1346 *	1349 *	1346 *	1339 *	1284 *	1232 *	1163 *	1077 *	974 *
-47.5	511	508	506	508	511	503	494	482	468	451
-55.0	303	304	304	304	303	300	297	293	289	285
-65.0	203	204	204	204	203	202	200	197	195	193
-75.0	107	106	106	106	107	107	107	108	108	108
-85.0	38	38	38	38	38	38	38	38	38	37
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles Horizontal Angles

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	37	36	36	35	34	32	31	29	27	25
75.0	108	108	108	107	105	101	96	88	80	75
65.0	190	188	185	181	176	169	160	151	139	126
55.0	281	276	270	262	254	245	232	217	198	177
47.5	431	409	387	364	338	316	291	269	242	216
42.5	855	742	663	555	478	408	356	309	271	241
37.5	2439 *	2152 *	1751 *	1271 *	939	659	479	376	309	267
33.0	4686 *	4293 *	3736 *	2938 *	2145 *	1296 *	741	479	356	291
29.0	6365 *	5997 *	5478 *	4674 *	3728 *	2547 *	1328 *	665	409	318
25.5	7319 *	7058 *	6610 *	5925 *	5047 *	3754 *	2202 *	967 *	478	342

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CANDELA TABULATION - (Cont.)

22.5	7895 *	7669 *	7309 *	6727 *	5946 *	4723 *	3025 *	1340 *	561	370
19.5	8308 *	8112 *	7814 *	7327 *	6650 *	5548 *	3851 *	1856 *	680	395
17.0	8567 *	8386 *	8119 *	7695 *	7100 *	6086 *	4446 *	2282 *	769	419
15.0	8721 *	8574 *	8318 *	7920 *	7370 *	6459 *	4867 *	2586 *	895	443
13.0	8867 *	8712 *	8474 *	8100 *	7587 *	6720 *	5243 *	2929 *	1025 *	464
11.0	8977 *	8839 *	8610 *	8257 *	7780 *	6950 *	5530 *	3234 *	1138 *	482
9.0	9075 *	8931 *	8711 *	8370 *	7913 *	7147 *	5752 *	3489 *	1232 *	497
7.0	9149 *	9013 *	8800 *	8465 *	8016 *	7285 *	5928 *	3688 *	1308 *	510
5.0	9216 *	9087 *	8871 *	8539 *	8096 *	7374 *	6061 *	3833 *	1366 *	519
3.0	9258 *	9125 *	8911 *	8588 *	8153 *	7434 *	6149 *	3923 *	1427 *	528
1.0	9278 *	9139 *	8929 *	8613 *	8182 *	7474 *	6190 *	3966 *	1428 *	528
0.0	9276 *	9139 *	8929 *	8612 *	8185 *	7483 *	6192 *	3959 *	1428 *	528
-1.0	9278 *	9139 *	8929 *	8613 *	8182 *	7474 *	6190 *	3966 *	1428 *	528
-3.0	9258 *	9125 *	8911 *	8588 *	8153 *	7434 *	6149 *	3923 *	1427 *	528
-5.0	9216 *	9087 *	8871 *	8539 *	8096 *	7374 *	6061 *	3833 *	1366 *	519
-7.0	9149 *	9013 *	8800 *	8465 *	8016 *	7285 *	5928 *	3688 *	1308 *	510
-9.0	9075 *	8931 *	8711 *	8370 *	7913 *	7147 *	5752 *	3489 *	1232 *	497
-11.0	8977 *	8839 *	8610 *	8257 *	7780 *	6950 *	5530 *	3234 *	1138 *	482
-13.0	8867 *	8712 *	8474 *	8100 *	7587 *	6720 *	5243 *	2929 *	1025 *	464
-15.0	8721 *	8574 *	8318 *	7920 *	7370 *	6459 *	4867 *	2586 *	895	443
-17.0	8567 *	8386 *	8119 *	7695 *	7100 *	6086 *	4446 *	2282 *	769	419
-19.5	8308 *	8112 *	7814 *	7327 *	6650 *	5548 *	3851 *	1856 *	680	395
-22.5	7895 *	7669 *	7309 *	6727 *	5946 *	4723 *	3025 *	1340 *	561	370
-25.5	7319 *	7058 *	6610 *	5925 *	5047 *	3754 *	2202 *	967 *	478	342
-29.0	6365 *	5997 *	5478 *	4674 *	3728 *	2547 *	1328 *	665	409	318
-33.0	4686 *	4293 *	3736 *	2938 *	2145 *	1296 *	741	479	356	291
-37.5	2439 *	2152 *	1751 *	1271 *	939	659	479	376	309	267
-42.5	855	742	663	555	478	408	356	309	271	241
-47.5	431	409	387	364	338	316	291	269	242	216
-55.0	281	276	270	262	254	245	232	217	198	177
-65.0	190	188	185	181	176	169	160	151	139	126
-75.0	108	108	108	107	105	101	96	88	80	75
-85.0	37	36	36	35	34	32	31	29	27	25
-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	22	16	10	3	0
75.0	66	49	30	10	0
65.0	107	80	47	16	0
55.0	146	104	61	21	0
47.5	177	121	71	24	0
42.5	197	133	77	26	0
37.5	215	143	82	27	0
33.0	231	153	86	29	0
29.0	245	161	90	30	0
25.5	256	167	92	31	0
22.5	264	172	94	31	0
19.5	274	177	96	32	0
17.0	282	181	97	32	0
15.0	288	184	98	32	0
13.0	293	186	99	32	0
11.0	298	189	100	33	0
9.0	303	191	100	33	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	306	193	101	33	0
5.0	309	195	101	33	0
3.0	312	196	101	33	0
1.0	313	197	101	33	0
0.0	313	197	101	33	0
-1.0	313	197	101	33	0
-3.0	312	196	101	33	0
-5.0	309	195	101	33	0
-7.0	306	193	101	33	0
-9.0	303	191	100	33	0
-11.0	298	189	100	33	0
-13.0	293	186	99	32	0
-15.0	288	184	98	32	0
-17.0	282	181	97	32	0
-19.5	274	177	96	32	0
-22.5	264	172	94	31	0
-25.5	256	167	92	31	0
-29.0	245	161	90	30	0
-33.0	231	153	86	29	0
-37.5	215	143	82	27	0
-42.5	197	133	77	26	0
-47.5	177	121	71	24	0
-55.0	146	104	61	21	0
-65.0	107	80	47	16	0
-75.0	66	49	30	10	0
-85.0	22	16	10	3	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFL-LED-12L-PC-WF-50-80.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 5913.21

Total Field Lumens (one side of beam only) = 5444.51

* 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	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05
75	0.22	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.42
65	0.47	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87	1.06
55	0.77	1.54	1.53	1.51	1.49	1.46	1.43	1.40	1.37	1.66
47.5	0.93	1.86	1.84	1.81	1.77	1.72	1.67	1.60	1.53	1.82
42.5	1.41	2.82	2.76	2.66	2.54	2.39	2.21	2.00	1.78	1.99
37.5	3.97 *	7.88 *	7.68 *	7.38 *	6.98 *	6.47 *	5.88 *	5.20 *	4.53 *	4.80 *
33	6.81 *	13.52 *	13.28 *	12.91 *	12.39 *	11.73 *	10.91 *	9.95 *	8.94 *	9.71 *
29	8.18 *	16.29 *	16.12 *	15.85 *	15.46 *	14.92 *	14.24 *	13.44 *	12.50 *	14.10 *
25.5	8.23 *	16.42 *	16.30 *	16.11 *	15.84 *	15.47 *	14.98 *	14.40 *	13.70 *	15.91 *
22.5	7.59 *	15.15 *	15.06 *	14.91 *	14.70 *	14.45 *	14.10 *	13.66 *	13.15 *	15.54 *
19.5	7.93 *	15.84 *	15.76 *	15.62 *	15.43 *	15.20 *	14.90 *	14.51 *	14.05 *	16.76 *
17	6.80 *	13.58 *	13.52 *	13.42 *	13.27 *	13.09 *	12.86 *	12.57 *	12.21 *	14.66 *
15	5.54 *	11.06 *	11.01 *	10.93 *	10.83 *	10.69 *	10.51 *	10.29 *	10.03 *	12.08 *
13	5.61 *	11.20 *	11.15 *	11.08 *	10.98 *	10.85 *	10.68 *	10.47 *	10.21 *	12.32 *
11	5.67 *	11.31 *	11.27 *	11.20 *	11.11 *	10.98 *	10.82 *	10.61 *	10.36 *	12.52 *
9	5.71 *	11.40 *	11.36 *	11.30 *	11.22 *	11.10 *	10.94 *	10.74 *	10.49 *	12.69 *
7	5.75 *	11.47 *	11.44 *	11.39 *	11.32 *	11.20 *	11.04 *	10.84 *	10.59 *	12.82 *
5	5.77 *	11.53 *	11.51 *	11.47 *	11.40 *	11.28 *	11.12 *	10.92 *	10.68 *	12.93 *
3	5.78 *	11.57 *	11.58 *	11.55 *	11.47 *	11.35 *	11.19 *	10.98 *	10.74 *	13.02 *
1	5.80 *	11.63 *	11.66 *	11.62 *	11.52 *	11.39 *	11.22 *	11.02 *	10.78 *	13.05 *
0	2.91 *	5.84 *	5.85 *	5.82 *	5.77 *	5.70 *	5.62 *	5.51 *	5.39 *	6.53 *
-1	2.91 *	5.84 *	5.85 *	5.82 *	5.77 *	5.70 *	5.62 *	5.51 *	5.39 *	6.53 *
	5.80 *	11.63 *	11.66 *	11.62 *	11.52 *	11.39 *	11.22 *	11.02 *	10.78 *	13.05 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	5.78 *	11.57 *	11.58 *	11.55 *	11.47 *	11.35 *	11.19 *	10.98 *	10.74 *	13.02 *
-5	5.77 *	11.53 *	11.51 *	11.47 *	11.40 *	11.28 *	11.12 *	10.92 *	10.68 *	12.93 *
-7	5.75 *	11.47 *	11.44 *	11.39 *	11.32 *	11.20 *	11.04 *	10.84 *	10.59 *	12.82 *
-9	5.71 *	11.40 *	11.36 *	11.30 *	11.22 *	11.10 *	10.94 *	10.74 *	10.49 *	12.69 *
-11	5.67 *	11.31 *	11.27 *	11.20 *	11.11 *	10.98 *	10.82 *	10.61 *	10.36 *	12.52 *
-13	5.61 *	11.20 *	11.15 *	11.08 *	10.98 *	10.85 *	10.68 *	10.47 *	10.21 *	12.32 *
-15	5.54 *	11.06 *	11.01 *	10.93 *	10.83 *	10.69 *	10.51 *	10.29 *	10.03 *	12.08 *
-17	6.80 *	13.58 *	13.52 *	13.42 *	13.27 *	13.09 *	12.86 *	12.57 *	12.21 *	14.66 *
-19.5	7.93 *	15.84 *	15.76 *	15.62 *	15.43 *	15.20 *	14.90 *	14.51 *	14.05 *	16.76 *
-22.5	7.59 *	15.15 *	15.06 *	14.91 *	14.70 *	14.45 *	14.10 *	13.66 *	13.15 *	15.54 *
-25.5	8.23 *	16.42 *	16.30 *	16.11 *	15.84 *	15.47 *	14.98 *	14.40 *	13.70 *	15.91 *
-29	8.18 *	16.29 *	16.12 *	15.85 *	15.46 *	14.92 *	14.24 *	13.44 *	12.50 *	14.10 *
-33	6.81 *	13.52 *	13.28 *	12.91 *	12.39 *	11.73 *	10.91 *	9.95 *	8.94 *	9.71 *
-37.5	3.97 *	7.88 *	7.68 *	7.38 *	6.98 *	6.47 *	5.88 *	5.20 *	4.53 *	4.80 *
-42.5	1.41	2.82	2.76	2.66	2.54	2.39	2.21	2.00	1.78	1.99
-47.5	0.93	1.86	1.84	1.81	1.77	1.72	1.67	1.60	1.53	1.82
-55	0.77	1.54	1.53	1.51	1.49	1.46	1.43	1.40	1.37	1.66
-65	0.47	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87	1.06
-75	0.22	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.42	0.52
-85	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.07
-90										
Total	203.79	406.73	404.25	399.94	393.82	385.72	375.42	363.00	348.76	413.14

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.08	0.07	0.08	0.08	0.08	0.08	0.07	0.08	0.07	0.03
85	0.61	0.59	0.64	0.68	0.68	0.65	0.56	0.67	0.58	0.27
75	1.24	1.19	1.31	1.37	1.38	1.34	1.13	1.34	1.15	0.54
65	1.92	1.82	2.00	2.10	2.13	2.06	1.72	1.99	1.66	0.76
55	2.05	1.91	2.05	2.12	2.12	2.03	1.68	1.92	1.56	0.70

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	2.10	1.81	1.82	1.79	1.71	1.59	1.31	1.48	1.19	0.52
42.5	4.52 *	3.38	2.94	2.48	2.13	1.84	1.46	1.64	1.31	0.57
37.5	9.31 *	6.85 *	5.37 *	3.73	2.61	1.99	1.48	1.61	1.27	0.54
33	14.35 *	11.26 *	9.21 *	6.17 *	3.60	2.23	1.48	1.55	1.20	0.51
29	16.93 *	14.15 *	12.50 *	8.98 *	5.05 *	2.57	1.46	1.45	1.10	0.46
25.5	17.00 *	14.80 *	13.84 *	10.73 *	6.32 *	2.93	1.41	1.32	0.98	0.41
22.5	18.67 *	16.68 *	16.25 *	13.43 *	8.45 *	3.88 *	1.62	1.40	1.01	0.42
19.5	16.50 *	15.01 *	15.04 *	13.01 *	8.70 *	4.07 *	1.52	1.22	0.87	0.36
17	13.67 *	12.56 *	12.80 *	11.41 *	7.94 *	3.81 *	1.36	1.02	0.71	0.29
15	14.00 *	12.93 *	13.33 *	12.16 *	8.74 *	4.34 *	1.52	1.06	0.72	0.29
13	14.26 *	13.24 *	13.76 *	12.76 *	9.48 *	4.86 *	1.67	1.10	0.73	0.30
11	14.48 *	13.49 *	14.12 *	13.25 *	10.08 *	5.30 *	1.80	1.13	0.75	0.30
9	14.65 *	13.67 *	14.39 *	13.63 *	10.55 *	5.67 *	1.91	1.15	0.76	0.30
7	14.79 *	13.82 *	14.58 *	13.91 *	10.92 *	5.95 *	1.99	1.17	0.76	0.31
5	14.89 *	13.93 *	14.72 *	14.11 *	11.17 *	6.15 *	2.07	1.19	0.77	0.31
3	14.95 *	14.00 *	14.80 *	14.23 *	11.32 *	6.27 *	2.11 *	1.20	0.77	0.31
1	7.48 *	7.01 *	7.42 *	7.14 *	5.68 *	3.14 *	1.05 *	0.60	0.39	0.16
0	7.48 *	7.01 *	7.42 *	7.14 *	5.68 *	3.14 *	1.05 *	0.60	0.39	0.16
-1	14.95 *	14.00 *	14.80 *	14.23 *	11.32 *	6.27 *	2.11 *	1.20	0.77	0.31
-3	14.89 *	13.93 *	14.72 *	14.11 *	11.17 *	6.15 *	2.07	1.19	0.77	0.31
-5	14.79 *	13.82 *	14.58 *	13.91 *	10.92 *	5.95 *	1.99	1.17	0.76	0.31
-7	14.65 *	13.67 *	14.39 *	13.63 *	10.55 *	5.67 *	1.91	1.15	0.76	0.30
-9	14.48 *	13.49 *	14.12 *	13.25 *	10.08 *	5.30 *	1.80	1.13	0.75	0.30
-11	14.26 *	13.24 *	13.76 *	12.76 *	9.48 *	4.86 *	1.67	1.10	0.73	0.30
-13	14.00 *	12.93 *	13.33 *	12.16 *	8.74 *	4.34 *	1.52	1.06	0.72	0.29
-15	13.67 *	12.56 *	12.80 *	11.41 *	7.94 *	3.81 *	1.36	1.02	0.71	0.29
-17	16.50 *	15.01 *	15.04 *	13.01 *	8.70 *	4.07 *	1.52	1.22	0.87	0.36
-19.5	18.67 *	16.68 *	16.25 *	13.43 *	8.45 *	3.88 *	1.62	1.40	1.01	0.42

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LUMENS TABULATION - (Cont.)

-22.5	17.00 *	14.80 *	13.84 *	10.73 *	6.32 *	2.93	1.41	1.32	0.98	0.41
-25.5	16.93 *	14.15 *	12.50 *	8.98 *	5.05 *	2.57	1.46	1.45	1.10	0.46
-29	14.35 *	11.26 *	9.21 *	6.17 *	3.60	2.23	1.48	1.55	1.20	0.51
-33	9.31 *	6.85 *	5.37 *	3.73	2.61	1.99	1.48	1.61	1.27	0.54
-37.5	4.52 *	3.38	2.94	2.48	2.13	1.84	1.46	1.64	1.31	0.57
-42.5	2.10	1.81	1.82	1.79	1.71	1.59	1.31	1.48	1.19	0.52
-47.5	2.05	1.91	2.05	2.12	2.12	2.03	1.68	1.92	1.56	0.70
-55	1.92	1.82	2.00	2.10	2.13	2.06	1.72	1.99	1.66	0.76
-65	1.24	1.19	1.31	1.37	1.38	1.34	1.13	1.34	1.15	0.54
-75	0.61	0.59	0.64	0.68	0.68	0.65	0.56	0.67	0.58	0.27
-85	0.08	0.07	0.08	0.08	0.08	0.08	0.07	0.08	0.07	0.03
-90										
Total	456.89	408.35	405.94	358.58	261.69	145.48	64.78	54.63	40.66	17.33

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		1.29
85				
	0.07	0.00		10.23
75				
	0.14	0.00		20.96
65				
	0.19	0.01		32.53
55				
	0.18	0.01		34.87
47.5				
	0.13	0.00		38.05
42.5				
	0.14	0.00		83.20
37.5				
	0.13	0.00		145.07
33				
	0.12	0.00		192.77
29				
	0.11	0.00		212.13
25.5				
	0.10	0.00		208.16
22.5				
	0.10	0.00		227.91
19.5				
	0.08	0.00		202.38
17				
	0.07	0.00		168.62

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

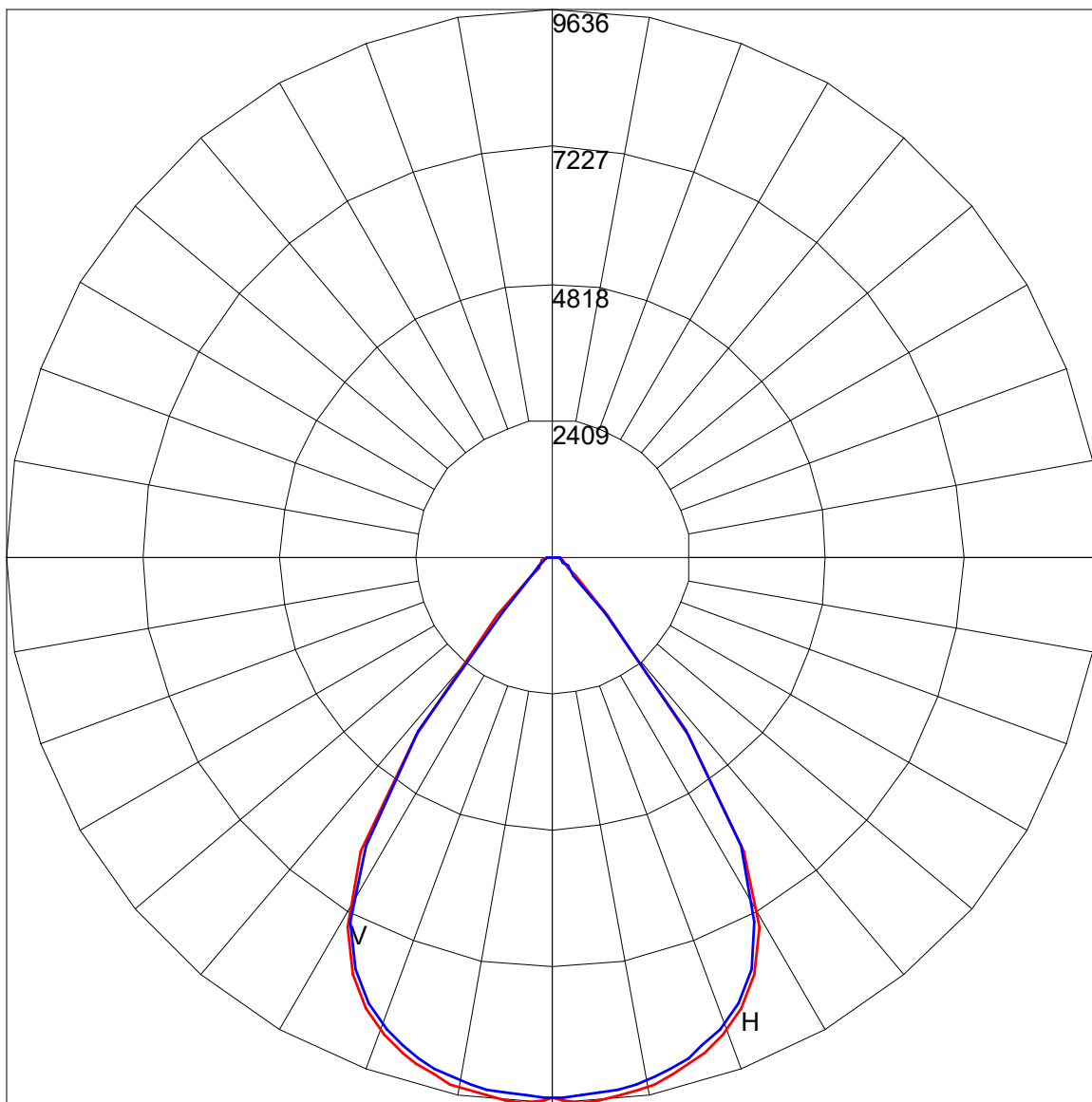
15	0.07	0.00	173.72
13	0.07	0.00	178.09
11	0.07	0.00	181.72
9	0.07	0.00	184.62
7	0.07	0.00	186.90
5	0.07	0.00	188.61
3	0.07	0.00	189.72
1	0.04	0.00	95.06
0	0.04	0.00	95.06
-1	0.07	0.00	189.72
-3	0.07	0.00	188.61
-5	0.07	0.00	186.90
-7	0.07	0.00	184.62
-9	0.07	0.00	181.72
-11	0.07	0.00	178.09
-13	0.07	0.00	173.72
-15	0.07	0.00	168.62
-17	0.08	0.00	202.38
-19.5	0.10	0.00	227.91
-22.5	0.10	0.00	208.16
-25.5	0.11	0.00	212.13
-29	0.12	0.00	192.77
-33	0.13	0.00	145.07
-37.5	0.14	0.00	83.20
-42.5	0.13	0.00	38.05
-47.5	0.18	0.01	34.87
-55	0.19	0.01	32.53
-65	0.14	0.00	20.96

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

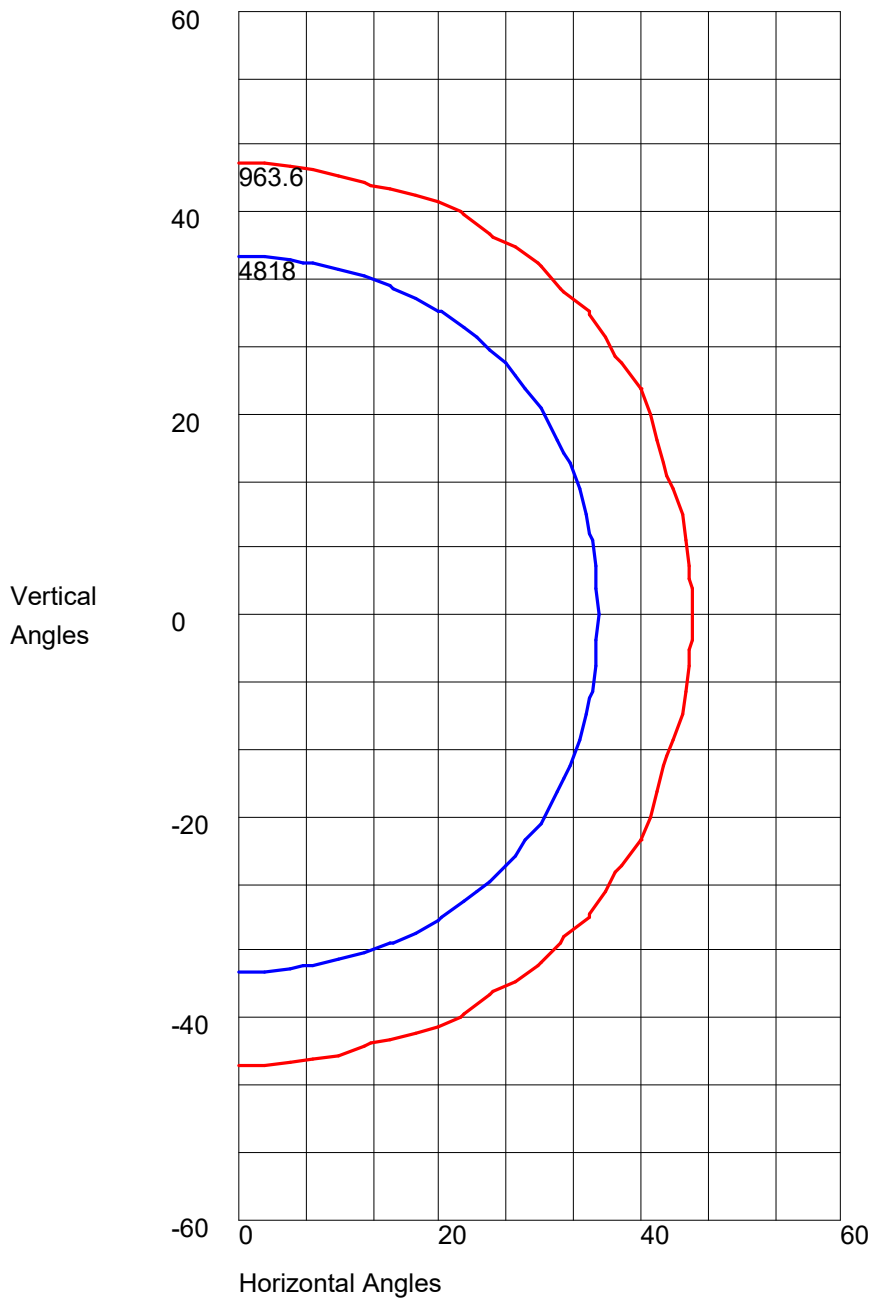
-75	0.07	0.00	10.23
-85	0.01	0.00	1.29
-90			
Total	4.20	0.13	5913.22

AXIAL CANDELA DISPLAY



Maximum Candela = 9636 Located At Horizontal Angle = -3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 9636 Located At Horizontal Angle = -3, Vertical Angle = 0
50% Maximum Candela = 4818
10% Maximum Candela = 963.6