

# Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)  
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HP-X-ID-4FT-V-V-8TW-WSO-F-ITL92314.900.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL92314.900 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[ISSUE DATE]10/01/19  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HP-X ID-4ft-V-V-8TW-WSO-F-277V-X-X-X  
[OTHER]ies file is based on 3500K; see luminaire tech sheet at  
[more][www.finelite.com](http://www.finelite.com) for lumen adjustment factors for other CCT's & CRI's  
[INPUT\_ELECTRICAL]120.0 VOLTS, 76.0 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 76.1 WATTS  
[ABSOLUTE LUMENS]8328  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL92314. For further details on Finelite family correlation files, go to  
[more][http://www.finelite.com/download\\_files/series\\_downloads/photometry\\_pdf/FL\\_Family\\_Correlation\\_WhitePaper.pdf](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8328
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	72.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17846	17923	17789
55	17265	17312	17194
65	16360	16457	16425
75	15220	15430	15535
85	13248	14183	14495

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1387	1387	1387	1387	1387
2.5	1386	1386	1386	1386	1386
5.0	1382	1382	1382	1382	1382
7.5	1373	1374	1374	1375	1374
10.0	1364	1361	1365	1365	1362
12.5	1351	1346	1352	1352	1347
15.0	1336	1329	1336	1337	1330
17.5	1317	1307	1317	1319	1310
20.0	1293	1284	1294	1295	1289
22.5	1268	1257	1269	1270	1264
25.0	1241	1231	1242	1243	1237
27.5	1209	1200	1211	1212	1206
30.0	1176	1168	1178	1178	1172
32.5	1141	1131	1143	1142	1136
35.0	1104	1093	1104	1104	1100
37.5	1061	1055	1066	1064	1059
40.0	1020	1014	1023	1021	1015
42.5	976	969	978	976	971
45.0	929	925	933	929	926
47.5	882	878	885	880	877
50.0	832	828	836	830	827
52.5	780	779	785	781	777
55.0	729	729	731	728	726
57.5	676	675	677	674	672
60.0	621	620	624	621	620
62.5	567	566	569	567	566
65.0	509	511	512	511	511
67.5	455	456	458	458	458
70.0	399	399	403	402	403
72.5	345	345	348	347	348
75.0	290	291	294	295	296
77.5	236	238	241	244	244
80.0	186	186	190	192	192
82.5	135	137	140	141	143
85.0	85	88	91	93	93
87.5	38	41	44	47	47
90.0	2	6	9	13	15
92.5	16	41	83	43	39
95.0	38	87	213	102	80
97.5	64	128	395	192	139
100.0	91	166	598	329	229
102.5	120	194	753	553	372
105.0	147	224	828	907	636
107.5	175	252	835	1314	1041
110.0	205	281	815	1589	1483
112.5	235	310	796	1680	1742
115.0	264	341	787	1684	1840
117.5	293	371	788	1644	1866
120.0	318	398	789	1583	1839
122.5	342	421	791	1518	1785
125.0	362	441	794	1456	1717
127.5	382	460	794	1393	1645
130.0	402	477	795	1333	1570
132.5	419	491	792	1275	1494

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-X-ID-4FT-V-V-8TW-WSO-F-ITL92314.900.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	437	504	786	1218	1413
<b>137.5</b>	455	518	779	1164	1341
<b>140.0</b>	472	531	767	1107	1266
<b>142.5</b>	489	543	755	1049	1187
<b>145.0</b>	506	555	741	994	1109
<b>147.5</b>	522	565	728	939	1038
<b>150.0</b>	537	575	716	889	969
<b>152.5</b>	551	584	705	846	910
<b>155.0</b>	566	593	693	807	856
<b>157.5</b>	577	600	683	772	810
<b>160.0</b>	589	607	673	741	769
<b>162.5</b>	599	613	664	715	736
<b>165.0</b>	609	619	656	693	707
<b>167.5</b>	616	623	649	674	684
<b>170.0</b>	622	627	643	659	665
<b>172.5</b>	628	631	640	649	652
<b>175.0</b>	631	632	636	640	642
<b>177.5</b>	633	633	634	635	636
<b>180.0</b>	634	634	634	634	634

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	507.63	N.A.	6.10
0-30	1078.23	N.A.	12.90
0-40	1766.93	N.A.	21.20
0-60	3133.99	N.A.	37.60
0-80	3950.63	N.A.	47.40
0-90	4051.94	N.A.	48.70
10-90	3920.63	N.A.	47.10
20-40	1259.3	N.A.	15.10
20-50	1975.28	N.A.	23.70
40-70	1873.53	N.A.	22.50
60-80	816.65	N.A.	9.80
70-80	310.17	N.A.	3.70
80-90	101.31	N.A.	1.20
90-110	769.54	N.A.	9.20
90-120	1712.7	N.A.	20.60
90-130	2548.98	N.A.	30.60
90-150	3702.64	N.A.	44.50
90-180	4276.21	N.A.	51.30
110-180	3506.67	N.A.	42.10
0-180	8328.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.32
10-20	376.32
20-30	570.60
30-40	688.70
40-50	715.98
50-60	651.08
60-70	506.47
70-80	310.17
80-90	101.31
90-100	143.93
100-110	625.60
110-120	943.16
120-130	836.28
130-140	665.84
140-150	487.82
150-160	325.79
160-170	186.80
170-180	60.98

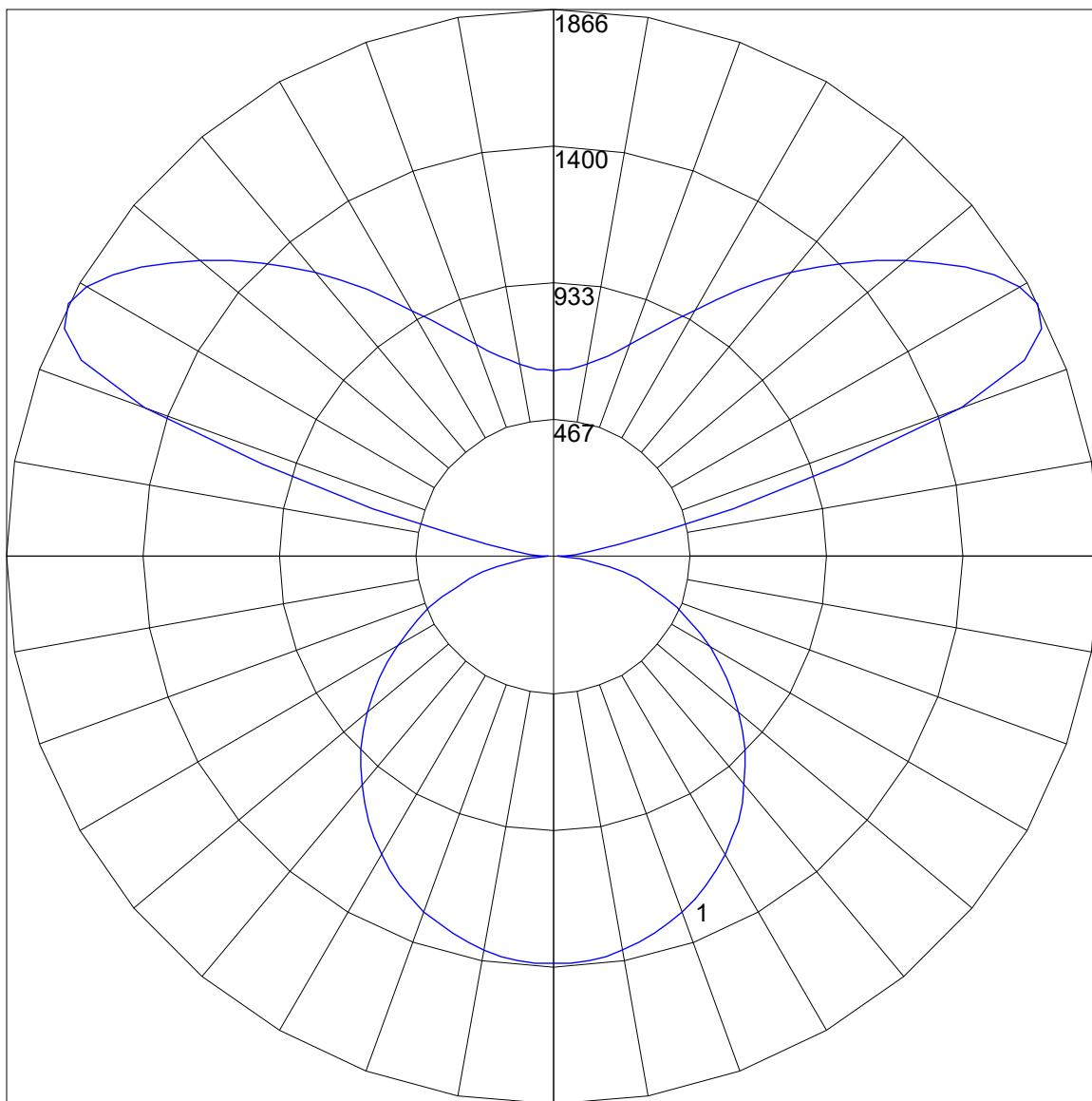
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	93	89	85	89	85	82	79	72	69	67	59	58	56	48	47	46	40
2	88	81	74	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	53	55	50	46	46	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	41	37	33	33	30	28	24
5	67	55	47	41	62	51	44	39	44	38	34	36	32	29	30	26	24	21
6	62	50	41	36	57	46	39	33	39	33	29	33	28	25	27	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	30	25	22	24	21	18	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	22	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 1866 Located At Horizontal Angle = 90, Vertical Angle = 117.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)