

# 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 : HPO-P-D-4FT-V-8TW-F-ITL92552.900.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL92552.300 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[ISSUEDATE]12/13/19  
[TESTDATE]09/08/20  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HPO-P-D-4ft-V-835-F  
[OTHER]ies file is based on 3500K; see luminaire tech sheet at  
www.finelite.com for lumen adjustment factors for other CCT's & CRI's  
[INPUT\_ELECTRICAL]120.0 VOLTS, 36.9 WATTS  
[INPUT\_ELECTRICAL]120.0 VOLTS, 36.7 WATTS  
[ABSOLUTE LUMENS]4011  
[OTHER]see www.finelite.com for source file ITL92552. 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	4011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	36.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	17674	17693	17577
55	17123	17123	17028
65	16296	16360	16296
75	15220	15325	15430
85	13715	14183	14650

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HPO-P-D-4FT-V-8TW-F-ITL92552.900.IES**

**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	1371	1371	1371	1371	1371
<b>2.5</b>	1370	1369	1369	1369	1370
<b>5.0</b>	1365	1364	1364	1364	1364
<b>7.5</b>	1358	1356	1357	1356	1357
<b>10.0</b>	1348	1345	1347	1348	1346
<b>12.5</b>	1336	1330	1334	1336	1334
<b>15.0</b>	1321	1312	1318	1320	1317
<b>17.5</b>	1303	1292	1300	1300	1298
<b>20.0</b>	1280	1267	1277	1278	1275
<b>22.5</b>	1254	1243	1253	1253	1250
<b>25.0</b>	1228	1215	1225	1225	1223
<b>27.5</b>	1198	1186	1197	1195	1194
<b>30.0</b>	1165	1152	1164	1162	1160
<b>32.5</b>	1128	1119	1128	1128	1124
<b>35.0</b>	1092	1081	1092	1090	1087
<b>37.5</b>	1052	1043	1053	1049	1047
<b>40.0</b>	1012	1002	1011	1007	1004
<b>42.5</b>	969	960	968	965	962
<b>45.0</b>	920	915	921	919	915
<b>47.5</b>	874	869	875	871	869
<b>50.0</b>	826	822	827	822	821
<b>52.5</b>	775	772	776	772	771
<b>55.0</b>	723	721	723	722	719
<b>57.5</b>	670	668	671	670	668
<b>60.0</b>	616	614	618	616	616
<b>62.5</b>	563	560	565	562	564
<b>65.0</b>	507	507	509	509	507
<b>67.5</b>	452	453	454	455	455
<b>70.0</b>	398	397	400	399	402
<b>72.5</b>	342	342	346	346	348
<b>75.0</b>	290	288	292	293	294
<b>77.5</b>	236	236	240	242	244
<b>80.0</b>	184	186	188	191	192
<b>82.5</b>	136	136	139	142	144
<b>85.0</b>	88	89	91	94	94
<b>87.5</b>	40	42	46	48	49
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HPO-P-D-4FT-V-8TW-F-ITL92552.900.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	501.39	N.A.	12.50
0-30	1064.98	N.A.	26.60
0-40	1745.58	N.A.	43.50
0-60	3099.27	N.A.	77.30
0-80	3910.54	N.A.	97.50
0-90	4011.15	N.A.	100.00
10-90	3881.48	N.A.	96.80
20-40	1244.19	N.A.	31.00
20-50	1952.74	N.A.	48.70
40-70	1856.57	N.A.	46.30
60-80	811.27	N.A.	20.20
70-80	308.39	N.A.	7.70
80-90	100.61	N.A.	2.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4011.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.66
10-20	371.72
20-30	563.60
30-40	680.60
40-50	708.55
50-60	645.14
60-70	502.88
70-80	308.39
80-90	100.61
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

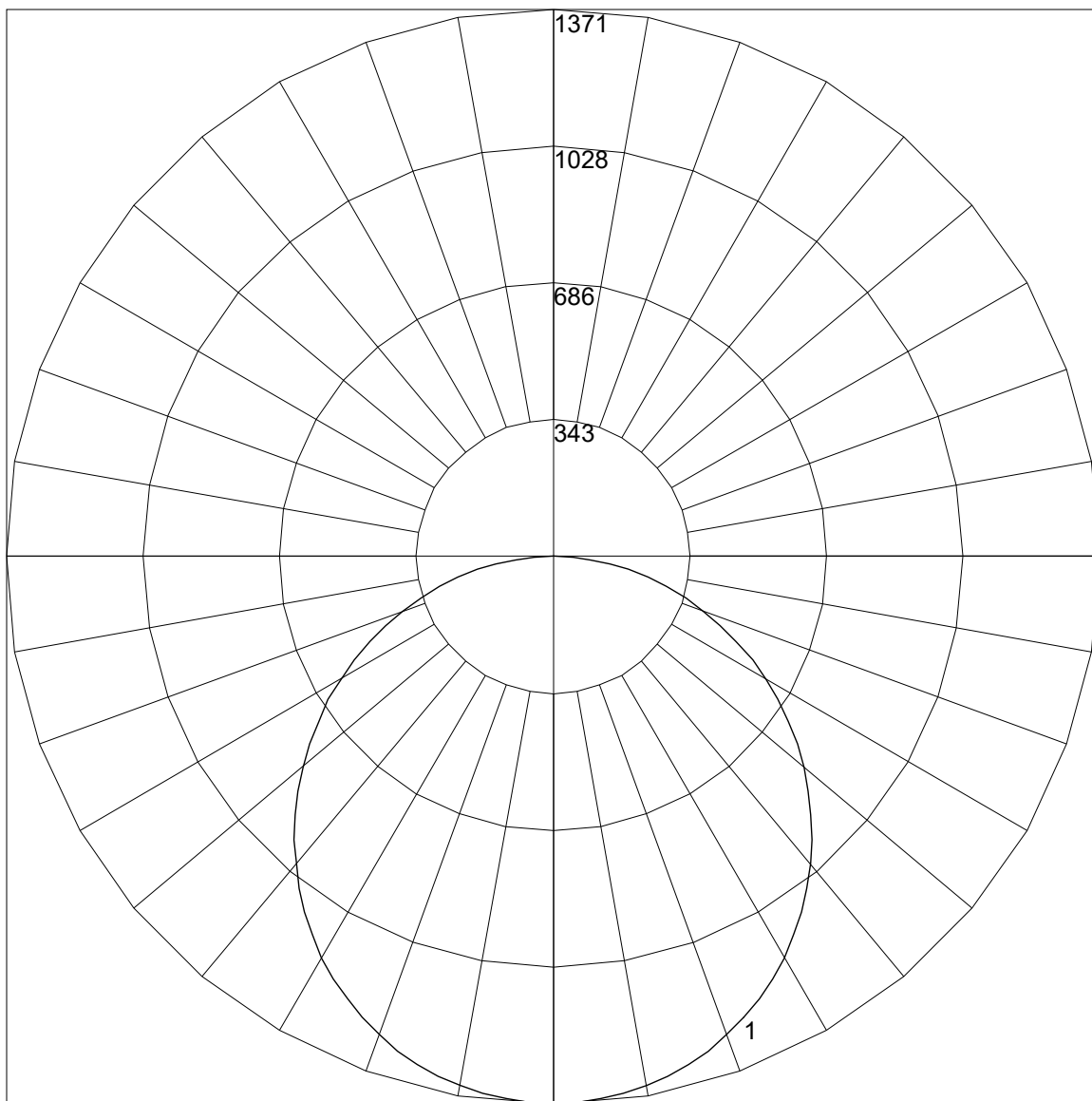
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HPO-P-D-4FT-V-8TW-F-ITL92552.900.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1371 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)