

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-4-P-D-4FT-V-8TW-DAO-ITL94331.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94331.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]01/11/21
[ISSUE DATE]07/02/21
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-4-P-D-4ft-V-8TW-DAO
[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, 39.2 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 39.0 WATTS
[ABSOLUTE LUMENS]3884
[OTHER]see www.finelite.com for source file ITL94331. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3884
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	39.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11807	12190	10104
55	10142	10842	8985
65	8492	9228	7832
75	6838	7566	6775
85	5358	5829	5923

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1552	1552	1552	1552	1552	1552	1552	1552	1552
2.5	1584	1582	1574	1563	1551	1537	1527	1519	1516
5.0	1609	1605	1591	1569	1543	1518	1494	1481	1476
7.5	1628	1621	1602	1569	1530	1491	1458	1440	1433
10.0	1641	1635	1606	1563	1514	1461	1422	1397	1385
12.5	1645	1640	1606	1551	1495	1427	1383	1352	1339
15.0	1641	1635	1599	1533	1468	1389	1341	1306	1292
17.5	1628	1623	1586	1512	1437	1349	1293	1260	1243
20.0	1606	1603	1566	1482	1403	1304	1246	1212	1197
22.5	1576	1573	1539	1451	1367	1257	1201	1164	1153
25.0	1538	1537	1506	1415	1323	1210	1153	1119	1110
27.5	1493	1493	1465	1373	1277	1161	1102	1075	1064
30.0	1441	1444	1419	1327	1226	1108	1056	1030	1023
32.5	1383	1387	1368	1279	1173	1057	1007	985	982
35.0	1315	1325	1314	1224	1116	1003	960	943	939
37.5	1249	1261	1251	1166	1056	950	911	901	900
40.0	1175	1192	1188	1106	998	895	862	856	861
42.5	1102	1114	1123	1045	938	842	815	815	819
45.0	1019	1039	1052	976	872	787	768	774	779
47.5	943	965	980	911	812	735	718	731	741
50.0	866	885	906	846	749	683	672	688	699
52.5	790	807	833	776	687	626	625	644	657
55.0	710	733	759	707	629	576	578	601	616
57.5	638	657	685	642	569	524	531	558	573
60.0	564	587	615	578	513	475	483	510	526
62.5	499	515	546	512	459	426	439	466	482
65.0	438	452	476	450	404	381	391	421	436
67.5	374	386	411	392	352	334	348	376	386
70.0	320	329	351	335	305	289	303	329	340
72.5	264	274	294	280	259	246	261	282	294
75.0	216	224	239	230	214	206	218	238	248
77.5	172	177	189	184	172	166	178	193	199
80.0	130	134	143	142	132	129	138	151	155
82.5	92	93	100	99	96	94	100	108	112
85.0	57	57	62	62	63	60	64	67	70
87.5	22	24	26	28	29	28	29	30	31
90.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	14.40
0-30	1168.58	N.A.	30.10
0-40	1872.64	N.A.	48.20
0-60	3150.8	N.A.	81.10
0-80	3813.23	N.A.	98.20
0-90	3883.51	N.A.	100.00
10-90	3737.17	N.A.	96.20
20-40	1312.97	N.A.	33.80
20-50	2004.47	N.A.	51.60
40-70	1701.22	N.A.	43.80
60-80	662.43	N.A.	17.10
70-80	239.36	N.A.	6.20
80-90	70.28	N.A.	1.80
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	3883.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.34
10-20	413.34
20-30	608.90
30-40	704.07
40-50	691.50
50-60	586.66
60-70	423.06
70-80	239.36
80-90	70.28
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

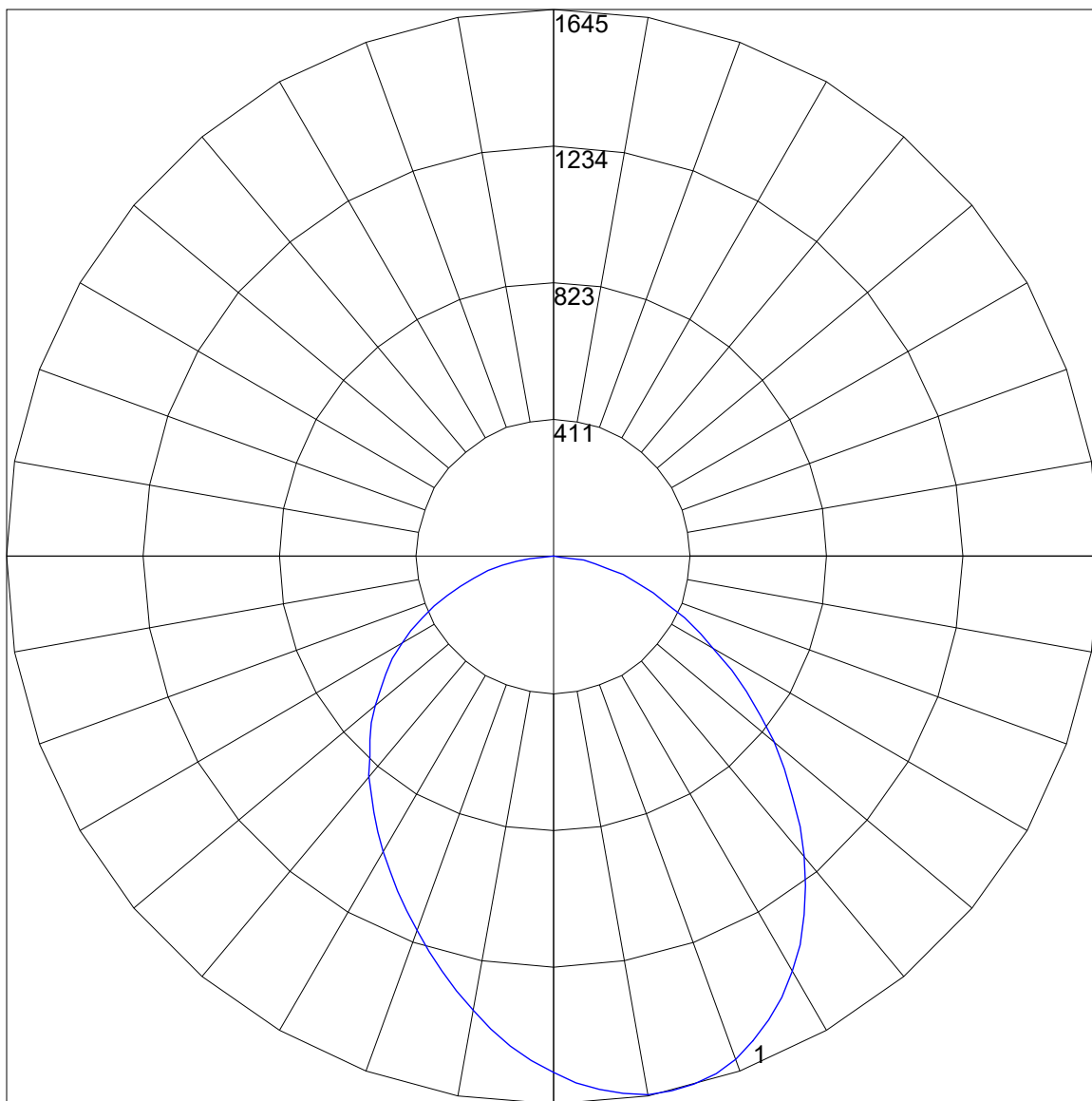
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	92	89	90	88	87	84
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1645 Located At Horizontal Angle = 0, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)