

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-V-8TW-ASY-DAO-ITL89988-ITL94331.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL94331.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]01/11/21

[_REVISED]04/30/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-P-D-4ft-V-V-8TW-ASY-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, 79.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 82.9 WATTS

[OTHER]see www.finelite.com for source files ITL89988 and 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

[_ABSOLUTE]LUMENS]8315

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8315
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	79.8
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)	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
92.5	67	68	58	61	22	58	91	109	116
95.0	142	145	146	149	57	92	141	167	175
97.5	224	239	272	226	93	122	186	224	235
100.0	347	367	398	300	130	155	223	270	286
102.5	469	492	520	373	169	188	263	305	321
105.0	582	627	647	445	207	219	294	344	355
107.5	717	794	780	511	247	247	324	378	388
110.0	903	979	907	567	287	275	355	413	423
112.5	1129	1162	1032	616	328	302	386	447	459
115.0	1335	1341	1134	661	369	330	414	480	493
117.5	1528	1498	1206	700	410	359	440	513	527
120.0	1683	1615	1250	737	455	390	463	542	560
122.5	1795	1692	1275	775	501	420	485	571	592
125.0	1861	1728	1288	811	545	449	504	593	620
127.5	1884	1733	1296	846	590	479	522	611	645
130.0	1874	1718	1302	883	634	508	539	622	660
132.5	1843	1693	1309	921	679	537	557	630	665

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-V-V-8TW-ASY-DAO-ITL89988-ITL94331.900.IES****CANDELA TABULATION - (Cont.)**

135.0	1803	1664	1318	959	724	571	574	636	667
137.5	1762	1636	1329	999	770	608	592	642	667
140.0	1721	1610	1341	1039	817	648	609	647	667
142.5	1685	1591	1354	1079	863	690	626	652	667
145.0	1657	1575	1367	1118	909	731	644	659	668
147.5	1633	1563	1383	1156	955	773	666	669	673
150.0	1614	1554	1400	1192	1001	818	694	680	681
152.5	1597	1546	1417	1225	1043	866	734	694	690
155.0	1581	1541	1432	1254	1084	917	783	715	706
157.5	1572	1539	1443	1280	1123	969	836	751	732
160.0	1565	1537	1450	1302	1159	1019	890	807	780
162.5	1552	1530	1451	1319	1192	1068	946	870	844
165.0	1537	1515	1446	1332	1220	1113	1009	933	910
167.5	1512	1494	1433	1339	1244	1154	1069	1001	978
170.0	1480	1466	1416	1342	1265	1192	1126	1077	1059
172.5	1440	1431	1392	1339	1280	1225	1178	1144	1132
175.0	1401	1392	1366	1332	1293	1255	1225	1204	1196
177.5	1351	1347	1334	1318	1299	1280	1265	1254	1250
180.0	1302	1302	1302	1302	1302	1302	1302	1302	1302

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-V-V-8TW-ASY-DAO-ITL89988-ITL94331.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	6.70
0-30	1168.58	N.A.	14.10
0-40	1872.64	N.A.	22.50
0-60	3150.8	N.A.	37.90
0-80	3813.23	N.A.	45.90
0-90	3883.51	N.A.	46.70
10-90	3737.17	N.A.	44.90
20-40	1312.97	N.A.	15.80
20-50	2004.47	N.A.	24.10
40-70	1701.22	N.A.	20.50
60-80	662.43	N.A.	8.00
70-80	239.36	N.A.	2.90
80-90	70.28	N.A.	0.80
90-110	577.50	N.A.	6.90
90-120	1269.82	N.A.	15.30
90-130	2066.11	N.A.	24.80
90-150	3450.76	N.A.	41.50
90-180	4431.02	N.A.	53.30
110-180	3853.51	N.A.	46.30
0-180	8314.53	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	145.76
100-110	431.74
110-120	692.31
120-130	796.29
130-140	743.40
140-150	641.26
150-160	512.67
160-170	344.80
170-180	122.79

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

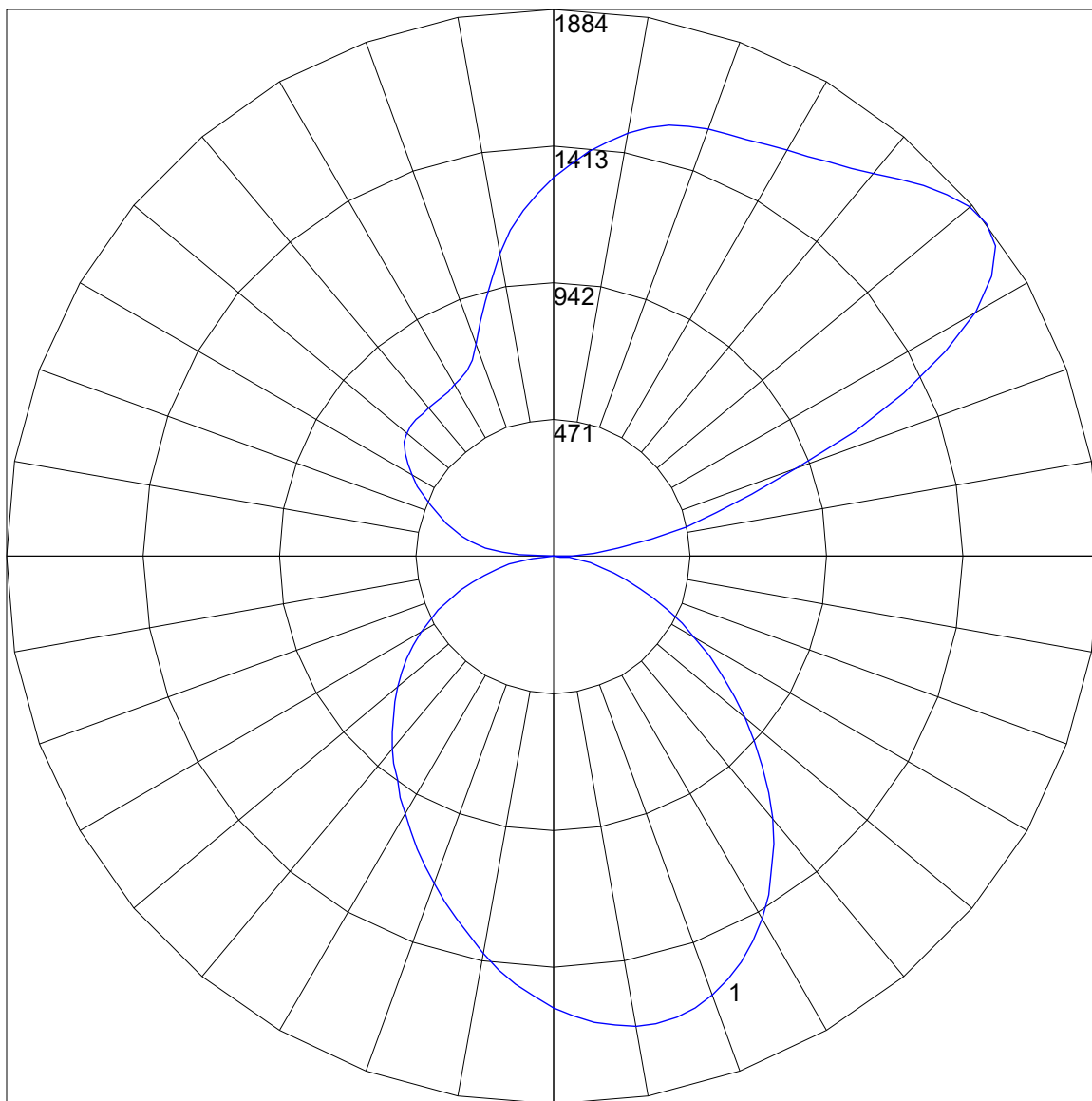
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	89	86	89	85	82	79	72	69	67	59	57	56	47	46	45	39
2	88	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38	33
3	81	71	64	58	74	66	60	54	55	51	47	46	42	39	37	34	32	28
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	35	37	33	29	30	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

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POLAR GRAPH



Maximum Candela = 1884 Located At Horizontal Angle = 0, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)