

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-ID-4FT-V-V-8TW-F-DAO-ITL85125-ITL94331.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-V-V-8TW-F-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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 89.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 91.6 WATTS

[ABSOLUTE LUMENS]8064

[CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL85125 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8064
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	89.7
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11998	12386	10267
55	10306	11017	9130
65	8629	9377	7959
75	6948	7688	6884
85	5445	5923	6018

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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	30	32	34	38	39	38	34	32	30
95.0	71	72	76	81	82	81	76	72	71
97.5	115	116	121	126	125	126	121	116	115
100.0	160	162	167	172	171	172	167	162	160
102.5	206	210	215	220	220	220	215	210	206
105.0	257	261	266	270	269	270	266	261	257
107.5	311	314	317	321	321	321	317	314	311
110.0	369	369	372	376	375	376	372	369	369
112.5	427	425	429	435	430	435	429	425	427
115.0	485	483	485	490	486	490	485	483	485
117.5	543	544	545	546	543	546	545	544	543
120.0	602	604	603	602	600	602	603	604	602
122.5	662	664	664	661	658	661	664	664	662
125.0	723	726	726	720	717	720	726	726	723
127.5	784	786	788	779	773	779	788	786	784
130.0	843	844	846	840	835	840	846	844	843
132.5	903	902	903	899	893	899	903	902	903

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-F-DAO-ITL85125-ITL94331.900.IES****CANDELA TABULATION - (Cont.)**

135.0	963	958	961	958	951	958	961	958	963
137.5	1021	1013	1018	1014	1007	1014	1018	1013	1021
140.0	1079	1070	1076	1072	1064	1072	1076	1070	1079
142.5	1132	1125	1132	1126	1119	1126	1132	1125	1132
145.0	1189	1177	1185	1179	1172	1179	1185	1177	1189
147.5	1240	1228	1236	1230	1223	1230	1236	1228	1240
150.0	1290	1277	1285	1279	1273	1279	1285	1277	1290
152.5	1334	1324	1332	1325	1320	1325	1332	1324	1334
155.0	1377	1367	1374	1368	1363	1368	1374	1367	1377
157.5	1419	1409	1415	1409	1405	1409	1415	1409	1419
160.0	1455	1447	1453	1447	1444	1447	1453	1447	1455
162.5	1489	1480	1487	1481	1479	1481	1487	1480	1489
165.0	1517	1510	1514	1511	1510	1511	1514	1510	1517
167.5	1542	1536	1539	1537	1537	1537	1539	1536	1542
170.0	1563	1559	1561	1559	1559	1559	1561	1559	1563
172.5	1578	1578	1577	1577	1577	1577	1577	1578	1578
175.0	1590	1590	1590	1589	1590	1589	1590	1590	1590
177.5	1597	1598	1598	1598	1598	1598	1598	1598	1597
180.0	1600	1600	1600	1600	1600	1600	1600	1600	1600

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-F-DAO-ITL85125-ITL94331.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	6.90
0-30	1168.58	N.A.	14.50
0-40	1872.64	N.A.	23.20
0-60	3150.8	N.A.	39.10
0-80	3813.23	N.A.	47.30
0-90	3883.51	N.A.	48.20
10-90	3737.17	N.A.	46.30
20-40	1312.97	N.A.	16.30
20-50	2004.47	N.A.	24.90
40-70	1701.22	N.A.	21.10
60-80	662.43	N.A.	8.20
70-80	239.36	N.A.	3.00
80-90	70.28	N.A.	0.90
90-110	366.84	N.A.	4.50
90-120	848.57	N.A.	10.50
90-130	1494.82	N.A.	18.50
90-150	2972.13	N.A.	36.90
90-180	4180.24	N.A.	51.80
110-180	3813.4	N.A.	47.30
0-180	8063.75	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	85.72
100-110	281.12
110-120	481.73
120-130	646.25
130-140	739.31
140-150	738.00
150-160	631.02
160-170	426.27
170-180	150.82

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

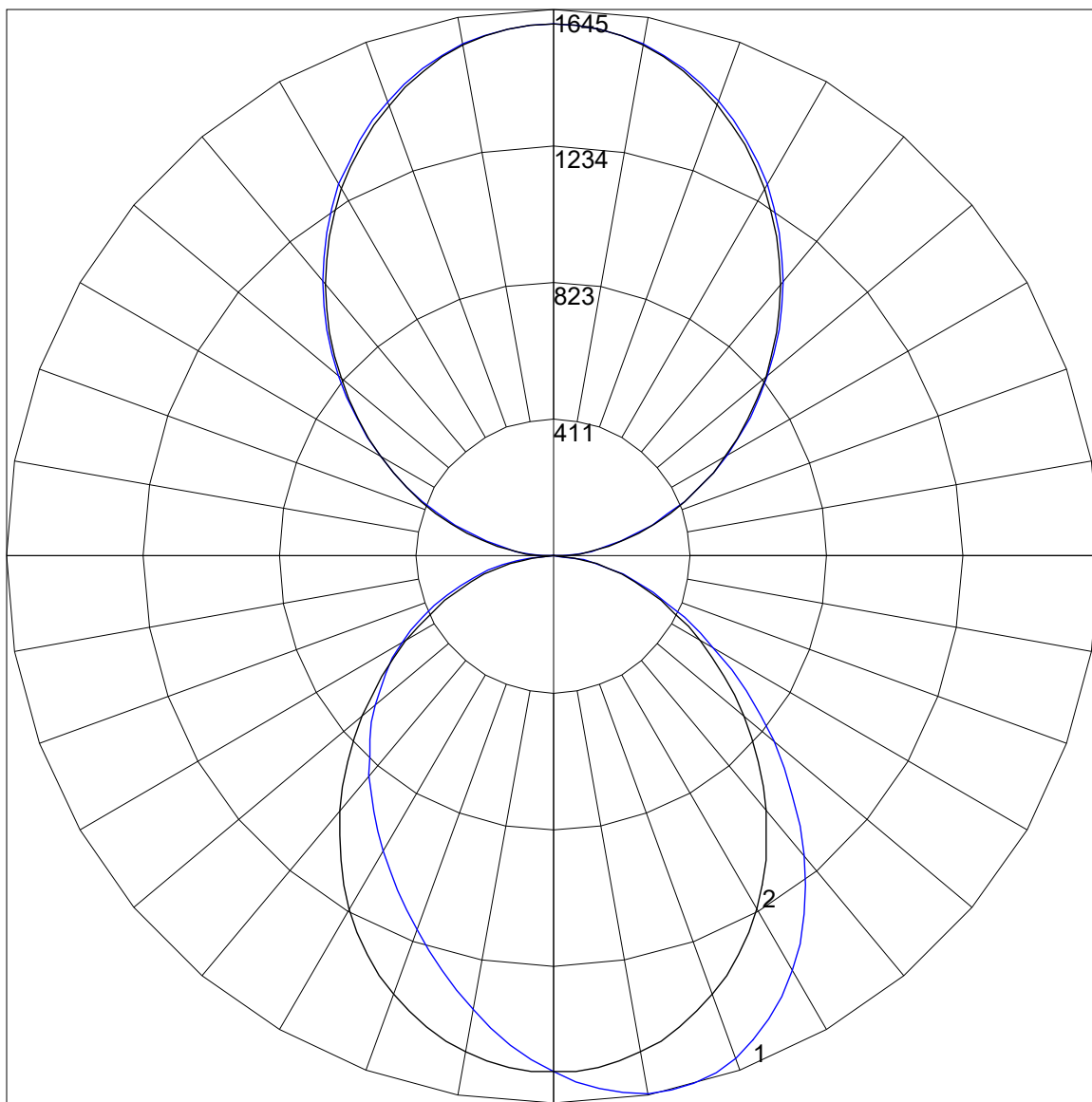
Effective Floor Cavity Reflectance 0.20

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	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39	34
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	35	33	29
4	74	63	56	50	68	59	52	46	50	45	40	41	38	34	34	31	29	25
5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	29	26	28	25	22	19
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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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.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)