

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-DL-ITL90629 ITL85125.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]10/12/18

[MANUFAC]FINELITE, INC.

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

[OTHER]ies file is based on 3500K; see luminaire tech sheet at

[more]www.finelite.com for lumen adjustment factors for other CCT's & CRI's

[INPUT_ELECTRICAL]120.0 VOLTS, 81.5 WATTS

[INPUT_ELECTRICAL]277.0 VOLTS, 83.3 WATTS

[ABSOLUTE]LUMENS]8210

[OTHER]see www.finelite.com for source file ITL90629 and ITL85125. 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	8210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	81.5
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8673	8045	7871
55	8020	7373	7244
65	7204	6604	6595
75	5940	5689	5866
85	3858	4844	5297

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-F-DL-ITL90629 ITL85125.900.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1251	1251	1251	1251	1251
2.5	1249	1249	1250	1251	1252
5.0	1243	1244	1247	1249	1250
7.5	1234	1237	1242	1244	1246
10.0	1222	1224	1232	1236	1238
12.5	1207	1207	1220	1226	1226
15.0	1187	1188	1204	1210	1210
17.5	1164	1166	1184	1192	1192
20.0	1138	1140	1160	1169	1169
22.5	1108	1112	1135	1144	1143
25.0	1077	1082	1106	1116	1117
27.5	1042	1050	1077	1086	1087
30.0	1006	1015	1043	1054	1056
32.5	968	979	1010	1021	1022
35.0	924	940	973	986	987
37.5	883	903	936	948	953
40.0	842	862	898	912	915
42.5	797	820	858	875	878
45.0	752	779	818	836	841
47.5	706	737	777	797	803
50.0	661	694	735	756	763
52.5	617	650	694	718	724
55.0	569	604	651	677	683
57.5	521	561	608	635	644
60.0	475	517	565	594	605
62.5	428	471	521	552	562
65.0	382	425	477	510	520
67.5	333	382	435	468	480
70.0	288	336	391	426	440
72.5	243	293	347	385	398
75.0	199	249	307	345	358
77.5	155	208	266	306	320
80.0	115	169	228	269	284
82.5	80	134	194	235	251
85.0	50	104	165	206	219
87.5	28	80	139	180	192
90.0	10	61	120	160	173
92.5	44	95	151	189	202
95.0	84	134	190	227	239
97.5	128	175	230	267	279
100.0	172	218	273	309	321
102.5	220	262	317	352	363
105.0	270	311	363	397	407
107.5	323	360	413	445	454
110.0	379	411	461	493	502
112.5	435	466	513	545	552
115.0	492	520	564	598	602
117.5	549	574	617	648	653
120.0	604	629	671	694	703
122.5	659	684	725	746	755
125.0	718	745	780	797	807
127.5	776	802	837	850	859
130.0	833	859	891	902	911
132.5	889	913	944	955	961

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-F-DL-ITL90629 ITL85125.900.IES****CANDELA TABULATION - (Cont.)**

135.0	946	968	997	1009	1013
137.5	1000	1017	1048	1060	1062
140.0	1057	1068	1099	1111	1112
142.5	1110	1118	1148	1158	1160
145.0	1163	1163	1198	1205	1206
147.5	1212	1211	1244	1249	1251
150.0	1258	1257	1283	1292	1293
152.5	1303	1298	1322	1332	1329
155.0	1344	1337	1358	1368	1365
157.5	1382	1374	1393	1400	1399
160.0	1416	1407	1424	1428	1429
162.5	1448	1439	1455	1457	1458
165.0	1476	1468	1479	1482	1483
167.5	1499	1492	1499	1503	1504
170.0	1518	1514	1517	1520	1521
172.5	1532	1531	1532	1533	1534
175.0	1542	1542	1543	1543	1542
177.5	1550	1549	1549	1549	1550
180.0	1552	1552	1552	1552	1552

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-F-DL-ITL90629 ITL85125.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	456.92	N.A.	5.60
0-30	963.80	N.A.	11.70
0-40	1567.07	N.A.	19.10
0-60	2762.54	N.A.	33.60
0-80	3536.61	N.A.	43.10
0-90	3706.67	N.A.	45.10
10-90	3588.16	N.A.	43.70
20-40	1110.15	N.A.	13.50
20-50	1733.27	N.A.	21.10
40-70	1657.18	N.A.	20.20
60-80	774.07	N.A.	9.40
70-80	312.36	N.A.	3.80
80-90	170.06	N.A.	2.10
90-110	570.36	N.A.	6.90
90-120	1121.98	N.A.	13.70
90-130	1811.95	N.A.	22.10
90-150	3316.92	N.A.	40.40
90-180	4503.82	N.A.	54.90
110-180	3933.46	N.A.	47.90
0-180	8210.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.51
10-20	338.41
20-30	506.89
30-40	603.26
40-50	623.12
50-60	572.35
60-70	461.71
70-80	312.36
80-90	170.06
90-100	196.56
100-110	373.80
110-120	551.62
120-130	689.98
130-140	762.06
140-150	742.91
150-160	624.00
160-170	416.44
170-180	146.46

IES INDOOR REPORT

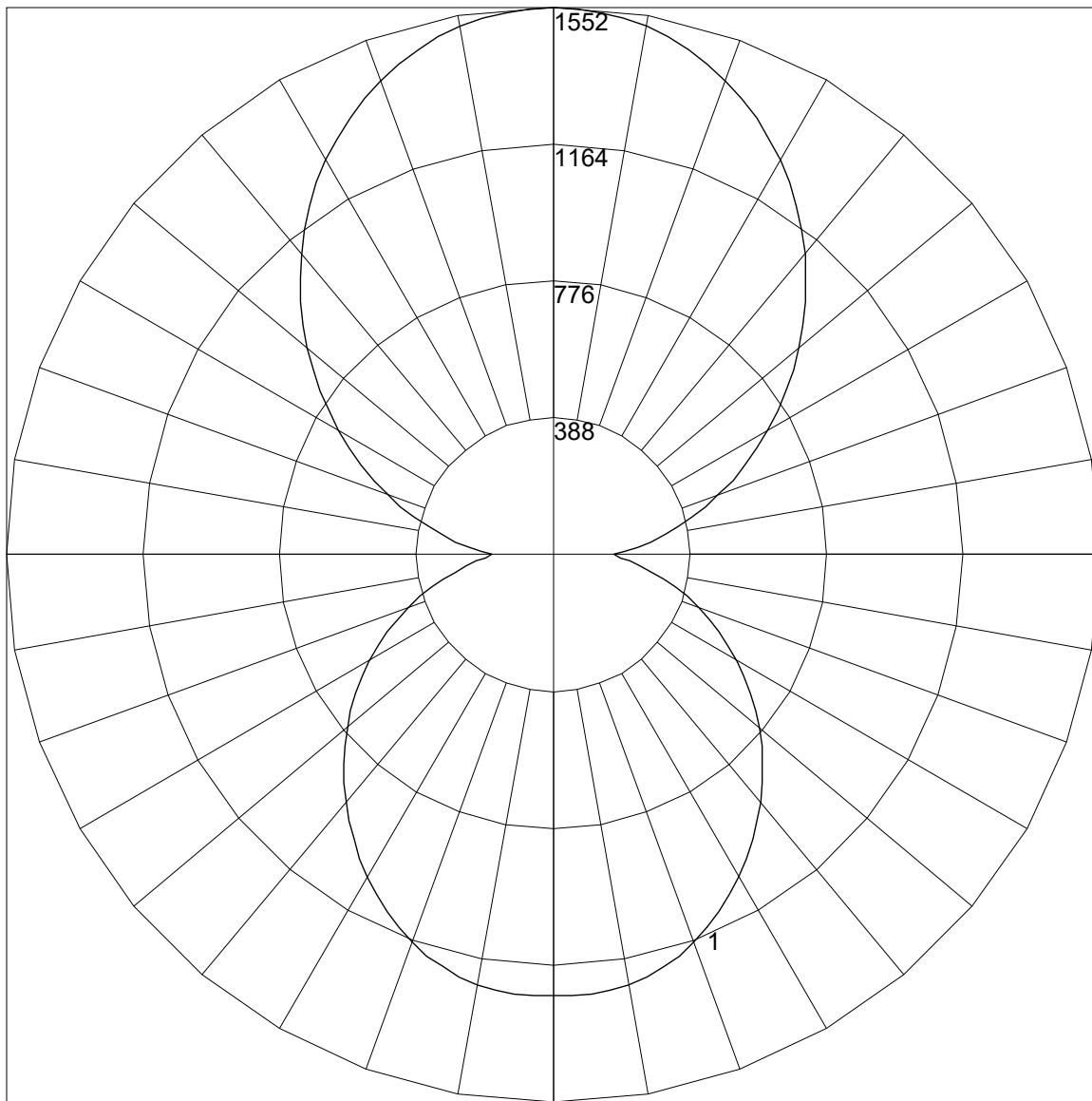
PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-F-DL-ITL90629 ITL85125.900.IES

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	43	42	37
2	87	79	73	68	79	73	67	63	61	57	53	49	46	44	39	37	35	30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	28	25	21
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	25	22	19	16
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	23	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	21	17	15	13
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14	11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

POLAR GRAPH



Maximum Candela = 1552 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)