

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-835-F-DL-ITL90629 ITL85125.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/01/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-V-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 74.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 75.7 WATTS

[_ABSOLUTE]LUMENS]7902

[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	7902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	74.1
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

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-F-DL-ITL90629 ITL85125.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-F-DL-ITL90629 ITL85125.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	456.92	N.A.	5.80
0-30	963.80	N.A.	12.20
0-40	1567.07	N.A.	19.80
0-60	2762.54	N.A.	35.00
0-80	3536.61	N.A.	44.80
0-90	3706.67	N.A.	46.90
10-90	3588.16	N.A.	45.40
20-40	1110.15	N.A.	14.00
20-50	1733.27	N.A.	21.90
40-70	1657.18	N.A.	21.00
60-80	774.07	N.A.	9.80
70-80	312.36	N.A.	4.00
80-90	170.06	N.A.	2.20
90-110	381.66	N.A.	4.80
90-120	863.39	N.A.	10.90
90-130	1509.64	N.A.	19.10
90-150	2986.95	N.A.	37.80
90-180	4195.05	N.A.	53.10
110-180	3813.4	N.A.	48.30
0-180	7901.72	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	100.53
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

IES INDOOR REPORT

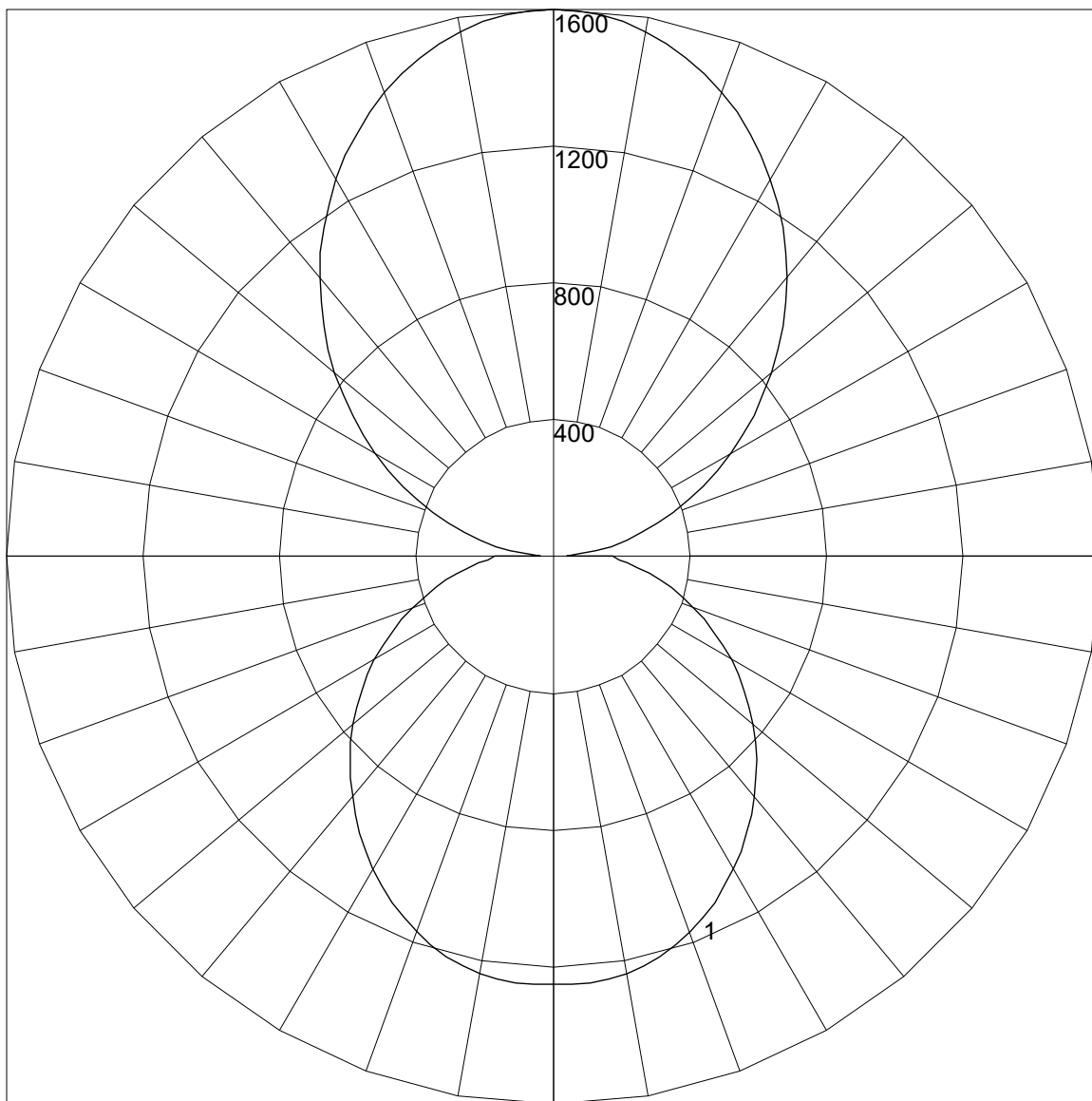
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	82	82	82	67	67	67	53	53	53	47
1	96	92	88	84	88	84	81	78	70	68	65	58	56	54	46	45	44	38
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36	31
3	80	70	62	56	73	64	58	52	54	49	45	44	41	37	35	33	30	26
4	73	62	53	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22
5	67	55	46	40	61	51	43	38	43	37	33	35	31	27	28	25	23	19
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	25	22	20	17
7	57	44	36	30	52	41	34	29	35	29	25	29	24	21	23	20	17	15
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)