

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-B-S-835-F-DL-ITL90629 ITL85125.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.010 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/10/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.7 WATTS

[_ABSOLUTE]LUMENS]3834

[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	3834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	32.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	3551	3294	3223
55	3284	3019	2966
65	2949	2704	2700
75	2432	2329	2402
85	1579	1983	2169

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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	512.217	512.217	512.217	512.217	512.217
2.5	511.398	511.398	511.807	512.217	512.626
5.0	508.941	509.350	510.579	511.398	511.807
7.5	505.256	506.484	508.531	509.350	510.169
10.0	500.343	501.161	504.437	506.075	506.894
12.5	494.201	494.201	499.524	501.980	501.980
15.0	486.012	486.421	492.973	495.429	495.429
17.5	476.595	477.414	484.784	488.059	488.059
20.0	465.949	466.768	474.957	478.642	478.642
22.5	453.666	455.304	464.721	468.406	467.996
25.0	440.973	443.020	452.847	456.941	457.351
27.5	426.642	429.918	440.973	444.658	445.067
30.0	411.902	415.587	427.052	431.556	432.375
32.5	396.343	400.847	413.540	418.044	418.454
35.0	378.328	384.879	398.391	403.713	404.123
37.5	361.541	369.729	383.241	388.154	390.202
40.0	344.753	352.942	367.682	373.414	374.643
42.5	326.328	335.745	351.304	358.265	359.493
45.0	307.903	318.958	334.927	342.297	344.344
47.5	289.069	301.762	318.139	326.328	328.785
50.0	270.644	284.155	300.943	309.541	312.407
52.5	252.628	266.140	284.155	293.982	296.439
55.0	232.975	247.305	266.549	277.195	279.651
57.5	213.321	229.699	248.943	259.998	263.683
60.0	194.487	211.683	231.337	243.211	247.715
62.5	175.243	192.849	213.321	226.014	230.108
65.0	156.408	174.014	195.306	208.817	212.912
67.5	136.345	156.408	178.109	191.621	196.534
70.0	117.920	137.574	160.093	174.424	180.156
72.5	99.495	119.968	142.078	157.637	162.959
75.0	81.480	101.952	125.700	141.259	146.582
77.5	63.464	85.165	108.913	125.290	131.023
80.0	47.086	69.196	93.354	110.141	116.283
82.5	32.756	54.866	79.433	96.220	102.771
85.0	20.472	42.582	67.558	84.346	89.669
87.5	11.464	32.756	56.913	73.700	78.614
90.0	4.095	24.976	49.133	65.511	70.834
92.5	22.642	48.886	77.702	97.256	103.946
95.0	43.225	68.954	97.771	116.811	122.986
97.5	65.867	90.052	118.354	137.394	143.569
100.0	88.508	112.179	140.482	159.007	165.182
102.5	113.209	134.821	163.123	181.134	186.794
105.0	138.938	160.036	186.794	204.290	209.436
107.5	166.211	185.250	212.523	228.990	233.621
110.0	195.028	211.494	237.223	253.690	258.321
112.5	223.844	239.796	263.982	280.449	284.051
115.0	253.175	267.584	290.226	307.721	309.780
117.5	282.507	295.371	317.498	333.451	336.024
120.0	310.809	323.674	345.286	357.122	361.753
122.5	339.111	351.976	373.074	383.880	388.511
125.0	369.472	383.365	401.376	410.124	415.270
127.5	399.317	412.697	430.707	437.397	442.028
130.0	428.649	442.028	458.495	464.155	468.786
132.5	457.466	469.815	485.768	491.428	494.516

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-S-835-F-DL-ITL90629 ITL85125.010.IES****CANDELA TABULATION - (Cont.)**

135.0	486.797	498.118	513.041	519.216	521.274
137.5	514.584	523.332	539.284	545.459	546.489
140.0	543.916	549.576	565.528	571.703	572.218
142.5	571.189	575.305	590.743	595.889	596.918
145.0	598.462	598.462	616.472	620.074	620.589
147.5	623.676	623.162	640.143	642.716	643.745
150.0	647.347	646.832	660.212	664.843	665.357
152.5	670.503	667.931	680.280	685.426	683.883
155.0	691.601	687.999	698.806	703.951	702.408
157.5	711.156	707.039	716.816	720.418	719.904
160.0	728.651	724.020	732.768	734.826	735.341
162.5	745.118	740.487	748.720	749.749	750.264
165.0	759.527	755.410	761.070	762.614	763.129
167.5	771.362	767.760	771.362	773.420	773.935
170.0	781.139	779.081	780.625	782.168	782.683
172.5	788.343	787.829	788.343	788.858	789.372
175.0	793.489	793.489	794.004	794.004	793.489
177.5	797.606	797.091	797.091	797.091	797.606
180.0	798.635	798.635	798.635	798.635	798.635

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-S-835-F-DL-ITL90629 ITL85125.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.08	N.A.	4.90
0-30	394.63	N.A.	10.30
0-40	641.63	N.A.	16.70
0-60	1131.11	N.A.	29.50
0-80	1448.05	N.A.	37.80
0-90	1517.68	N.A.	39.60
10-90	1469.16	N.A.	38.30
20-40	454.55	N.A.	11.90
20-50	709.68	N.A.	18.50
40-70	678.52	N.A.	17.70
60-80	316.94	N.A.	8.30
70-80	127.89	N.A.	3.30
80-90	69.63	N.A.	1.80
90-110	291.94	N.A.	7.60
90-120	575.79	N.A.	15.00
90-130	930.84	N.A.	24.30
90-150	1705.28	N.A.	44.50
90-180	2316.04	N.A.	60.40
110-180	2024.1	N.A.	52.80
0-180	3833.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.52
10-20	138.56
20-30	207.54
30-40	247.00
40-50	255.13
50-60	234.35
60-70	189.04
70-80	127.89
80-90	69.63
90-100	99.59
100-110	192.35
110-120	283.85
120-130	355.05
130-140	392.14
140-150	382.29
150-160	321.10
160-170	214.29
170-180	75.37

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

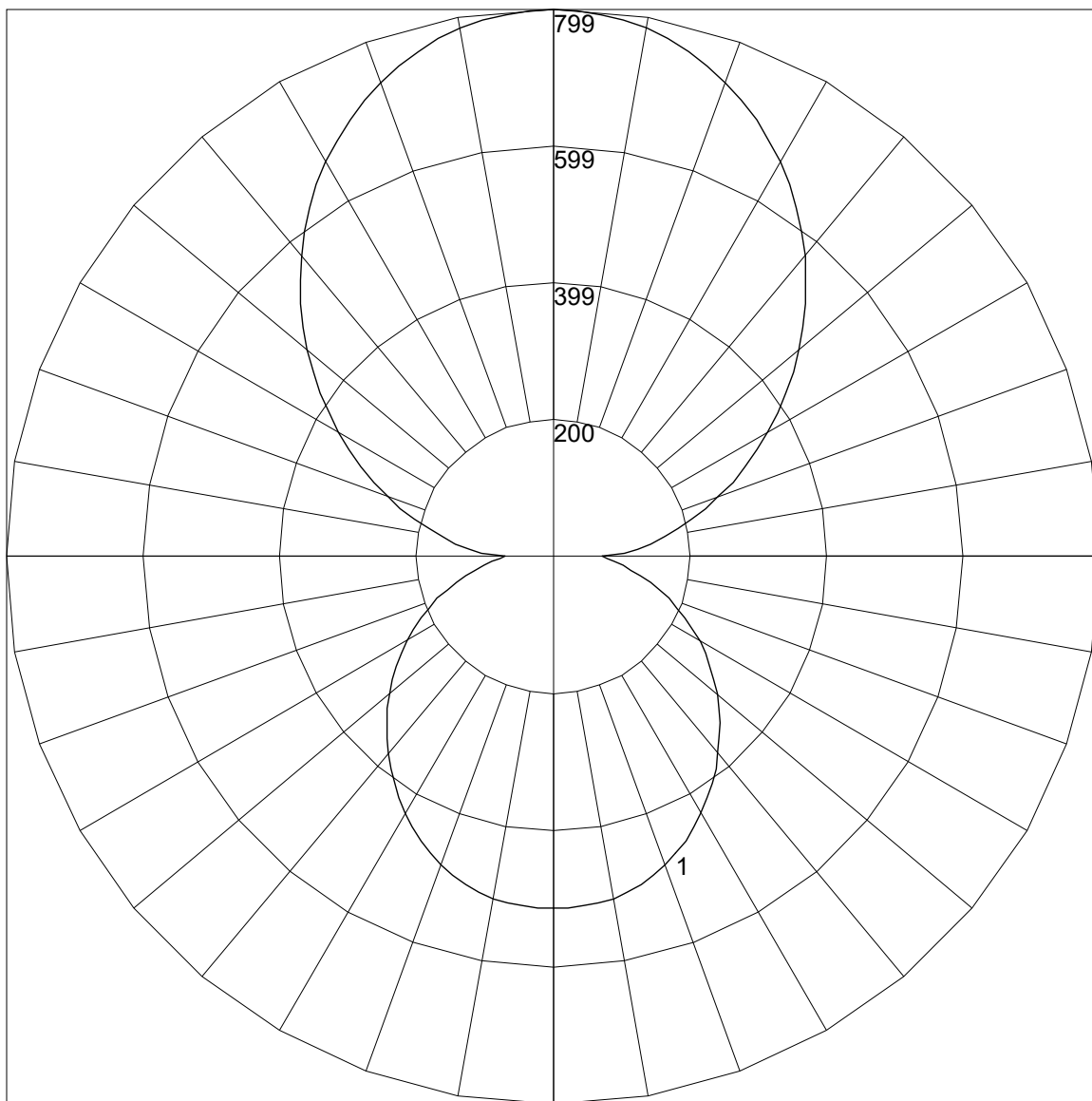
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	95	90	86	83	86	82	79	76	67	65	62	53	51	50	40	39	38	32
2	86	78	72	67	78	71	66	62	58	54	51	46	43	41	35	33	32	26
3	78	69	61	55	71	63	56	51	51	46	43	41	37	34	31	29	27	22
4	72	61	53	47	65	55	48	43	45	40	36	36	32	29	27	25	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	25	22	20	16
6	60	48	40	34	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	43	35	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	26	47	36	29	24	30	25	21	24	20	17	19	16	14	11
9	48	36	28	23	44	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	19	25	20	17	20	17	14	16	13	11	9

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POLAR GRAPH



Maximum Candela = 798.635 Located At Horizontal Angle = 0, Vertical Angle = 180

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