

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-H-835-F-DL-ITL90629 ITL85125.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.011 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-H-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.9 WATTS

[_ABSOLUTE]LUMENS]5204

[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	5204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	46.9
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	6746	6257	6122
55	6238	5735	5634
65	5603	5137	5129
75	4620	4425	4563
85	3000	3767	4120

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	973.012	973.012	973.012	973.012	973.012
2.5	971.456	971.456	972.234	973.012	973.789
5.0	966.789	967.567	969.900	971.456	972.234
7.5	959.789	962.123	966.011	967.567	969.123
10.0	950.456	952.011	958.234	961.345	962.900
12.5	938.789	938.789	948.900	953.567	953.567
15.0	923.233	924.011	936.456	941.122	941.122
17.5	905.344	906.900	920.900	927.122	927.122
20.0	885.122	886.677	902.233	909.233	909.233
22.5	861.788	864.899	882.788	889.788	889.011
25.0	837.677	841.566	860.232	868.010	868.788
27.5	810.454	816.677	837.677	844.677	845.455
30.0	782.454	789.454	811.232	819.788	821.343
32.5	752.898	761.454	785.565	794.121	794.898
35.0	718.675	731.120	756.787	766.898	767.676
37.5	686.786	702.342	728.009	737.342	741.231
40.0	654.897	670.452	698.453	709.342	711.675
42.5	619.896	637.785	667.341	680.564	682.897
45.0	584.896	605.896	636.230	650.230	654.119
47.5	549.118	573.229	604.341	619.896	624.563
50.0	514.117	539.784	571.673	588.007	593.452
52.5	479.895	505.562	539.784	558.451	563.118
55.0	442.561	469.783	506.339	526.562	531.229
57.5	405.227	436.339	472.894	493.895	500.895
60.0	369.449	402.116	439.450	462.005	470.561
62.5	332.893	366.338	405.227	429.339	437.116
65.0	297.115	330.560	371.004	396.671	404.449
67.5	259.003	297.115	338.337	364.004	373.338
70.0	224.003	261.337	304.115	331.337	342.226
72.5	189.002	227.892	269.892	299.448	309.559
75.0	154.780	193.669	238.781	268.337	278.448
77.5	120.557	161.780	206.891	238.003	248.892
80.0	89.445	131.446	177.335	209.225	220.892
82.5	62.223	104.224	150.891	182.780	195.225
85.0	38.889	80.890	128.335	160.224	170.335
87.5	21.778	62.223	108.112	140.002	149.335
90.0	7.778	47.445	93.334	124.446	134.557
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-H-835-F-DL-ITL90629 ITL85125.011.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-H-835-F-DL-ITL90629 ITL85125.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	355.38	N.A.	6.80
0-30	749.63	N.A.	14.40
0-40	1218.84	N.A.	23.40
0-60	2148.67	N.A.	41.30
0-80	2750.73	N.A.	52.90
0-90	2883.00	N.A.	55.40
10-90	2790.83	N.A.	53.60
20-40	863.46	N.A.	16.60
20-50	1348.12	N.A.	25.90
40-70	1288.93	N.A.	24.80
60-80	602.06	N.A.	11.60
70-80	242.95	N.A.	4.70
80-90	132.27	N.A.	2.50
90-110	297.40	N.A.	5.70
90-120	581.25	N.A.	11.20
90-130	936.30	N.A.	18.00
90-150	1710.74	N.A.	32.90
90-180	2321.5	N.A.	44.60
110-180	2024.1	N.A.	38.90
0-180	5204.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.17
10-20	263.21
20-30	394.25
30-40	469.21
40-50	484.66
50-60	445.17
60-70	359.11
70-80	242.95
80-90	132.27
90-100	105.05
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

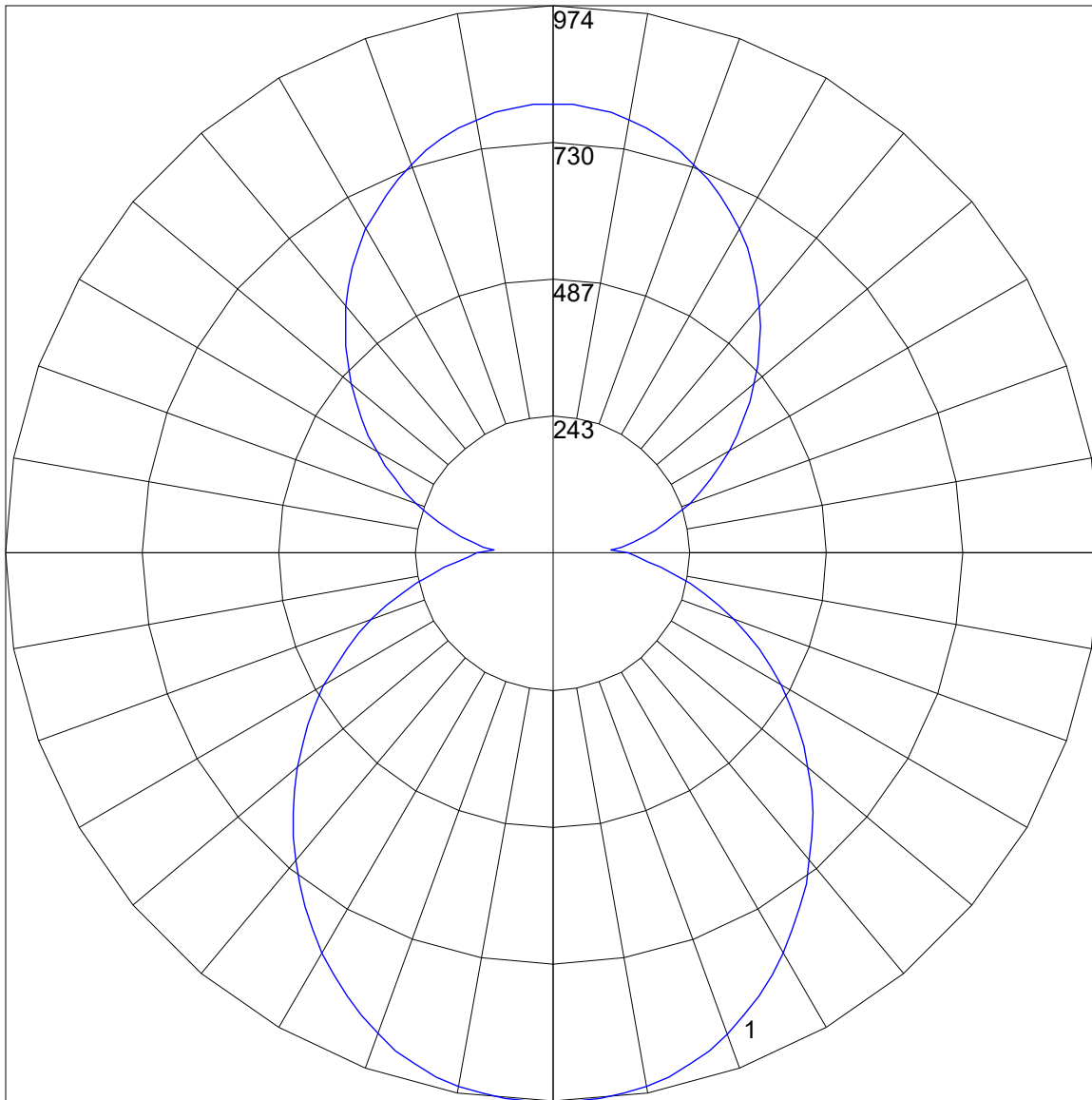
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	98	93	89	85	91	87	83	80	74	72	69	63	61	59	53	51	50	45
2	89	81	75	69	82	75	70	65	65	60	57	55	52	49	46	43	41	37
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	40	37	35	31
4	74	63	54	48	68	58	51	45	50	45	40	43	38	35	36	33	30	26
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	29	26	23
6	62	50	42	36	58	47	39	34	40	34	30	35	30	26	29	26	23	20
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	27	23	20	17
8	54	41	33	27	50	38	31	26	33	28	23	29	24	21	24	21	18	16
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	23	19	16	14
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15	13

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POLAR GRAPH



Maximum Candela = 973.789 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)