

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-B-8TW-F-DL-ITL90629 ITL85125.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.902 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-B-B-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, 40.5 WATTS

[INPUT_ELECTRICAL]277.0 VOLTS, 43.4 WATTS

[ABSOLUTE]LUMENS]4225

[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	4225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	40.5
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	4464	4140	4051
55	4128	3794	3728
65	3707	3399	3394
75	3057	2928	3019
85	1985	2493	2726

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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	643.825	643.825	643.825	643.825	643.825
2.5	642.796	642.796	643.311	643.825	644.340
5.0	639.708	640.223	641.767	642.796	643.311
7.5	635.076	636.620	639.193	640.223	641.252
10.0	628.900	629.930	634.047	636.106	637.135
12.5	621.181	621.181	627.871	630.959	630.959
15.0	610.888	611.402	619.637	622.725	622.725
17.5	599.051	600.080	609.344	613.461	613.461
20.0	585.670	586.699	596.992	601.624	601.624
22.5	570.231	572.289	584.126	588.758	588.243
25.0	554.276	556.850	569.201	574.348	574.862
27.5	536.264	540.381	554.276	558.908	559.423
30.0	517.736	522.368	536.778	542.439	543.469
32.5	498.180	503.841	519.795	525.456	525.971
35.0	475.535	483.769	500.753	507.443	507.958
37.5	454.435	464.728	481.711	487.887	490.460
40.0	433.334	443.627	462.154	469.359	470.903
42.5	410.175	422.012	441.568	450.317	451.861
45.0	387.016	400.911	420.982	430.246	432.819
47.5	363.342	379.296	399.882	410.175	413.263
50.0	340.183	357.166	378.267	389.074	392.677
52.5	317.538	334.522	357.166	369.518	372.606
55.0	292.835	310.848	335.036	348.417	351.505
57.5	268.132	288.718	312.906	326.802	331.434
60.0	244.458	266.073	290.776	305.701	311.362
62.5	220.269	242.399	268.132	284.086	289.232
65.0	196.596	218.726	245.487	262.471	267.617
67.5	171.378	196.596	223.872	240.856	247.031
70.0	148.219	172.922	201.227	219.240	226.445
72.5	125.060	150.792	178.583	198.140	204.830
75.0	102.415	128.148	157.997	177.554	184.244
77.5	79.770	107.047	136.897	157.482	164.688
80.0	59.185	86.976	117.340	138.440	146.160
82.5	41.172	68.963	99.842	120.942	129.177
85.0	25.732	53.523	84.917	106.018	112.708
87.5	14.410	41.172	71.536	92.637	98.813
90.0	5.146	31.394	61.758	82.344	89.034
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-B-8TW-F-DL-ITL90629 ITL85125.902.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-B-8TW-F-DL-ITL90629 ITL85125.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	235.15	N.A.	5.60
0-30	496.02	N.A.	11.70
0-40	806.49	N.A.	19.10
0-60	1421.74	N.A.	33.60
0-80	1820.11	N.A.	43.10
0-90	1907.63	N.A.	45.10
10-90	1846.64	N.A.	43.70
20-40	571.34	N.A.	13.50
20-50	892.02	N.A.	21.10
40-70	852.86	N.A.	20.20
60-80	398.37	N.A.	9.40
70-80	160.76	N.A.	3.80
80-90	87.52	N.A.	2.10
90-110	293.50	N.A.	6.90
90-120	577.35	N.A.	13.70
90-130	932.40	N.A.	22.10
90-150	1706.84	N.A.	40.40
90-180	2317.6	N.A.	54.90
110-180	2024.1	N.A.	47.90
0-180	4225.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.99
10-20	174.16
20-30	260.87
30-40	310.47
40-50	320.69
50-60	294.56
60-70	237.62
70-80	160.76
80-90	87.52
90-100	101.15
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

IES INDOOR REPORT

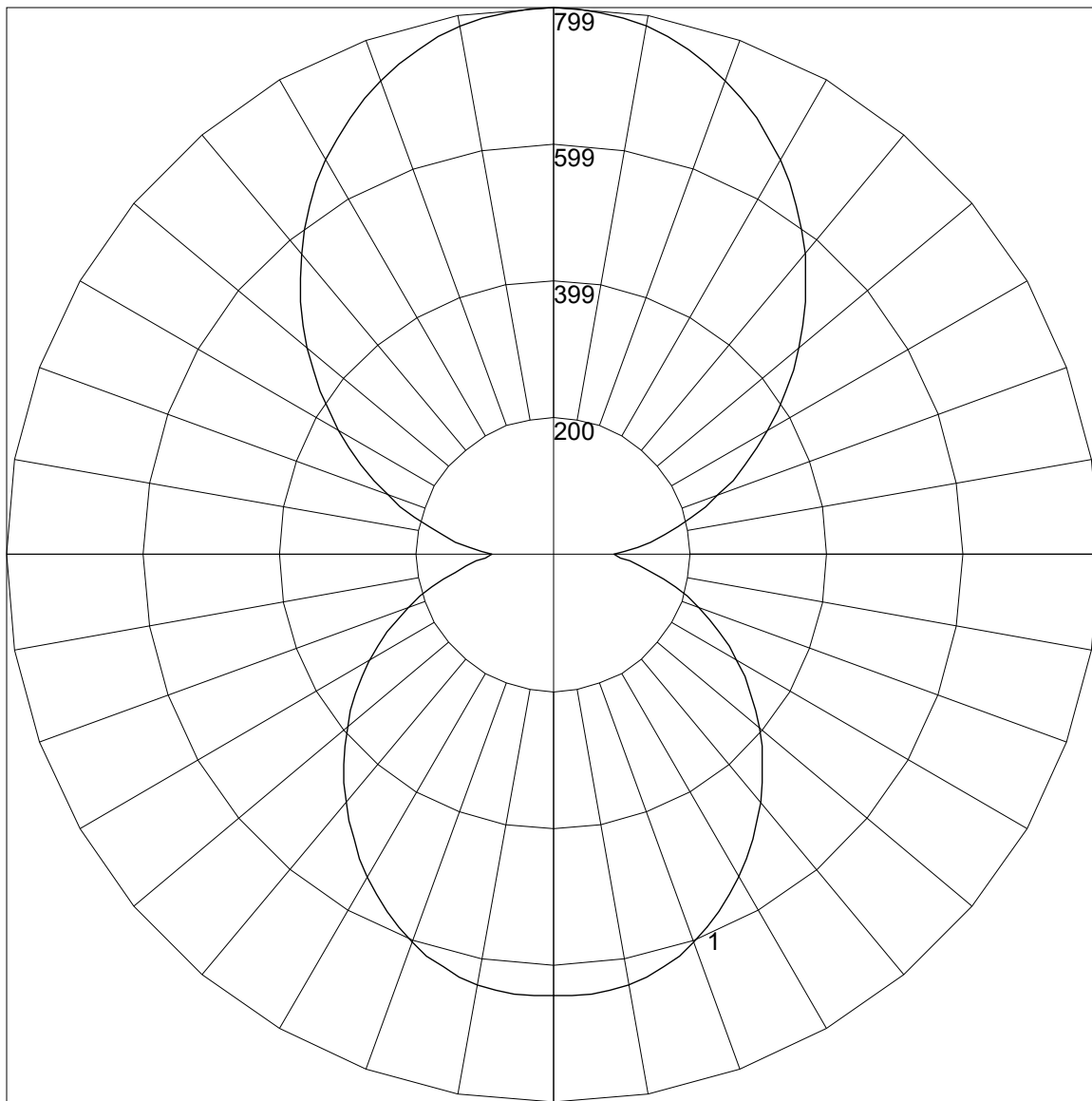
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	25	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 = 798.635 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)