

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-H-S-835-F-DAO-ITL85125-ITL94331.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.009 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-H-S-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 45.2 WATTS

[ABSOLUTE LUMENS]4841

[CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL85125 and ITL94331. 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	4841
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	42.9
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4912	5071	4203
55	4219	4510	3738
65	3532	3839	3258
75	2844	3147	2818
85	2229	2425	2464

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	635.345	635.345	635.345	635.345	635.345	635.345	635.345	635.345	635.345
2.5	648.445	647.627	644.352	639.848	634.936	629.205	625.111	621.836	620.608
5.0	658.680	657.042	651.311	642.305	631.661	621.427	611.602	606.280	604.233
7.5	666.458	663.592	655.814	642.305	626.339	610.374	596.864	589.496	586.630
10.0	671.779	669.323	657.451	639.848	619.789	598.092	582.127	571.893	566.980
12.5	673.417	671.370	657.451	634.936	612.011	584.174	566.161	553.471	548.149
15.0	671.779	669.323	654.586	627.567	600.958	568.618	548.968	534.640	528.909
17.5	666.458	664.411	649.264	618.970	588.268	552.243	529.318	515.809	508.849
20.0	657.451	656.223	641.077	606.689	574.349	533.821	510.078	496.159	490.018
22.5	645.170	643.942	630.023	593.999	559.612	514.581	491.656	476.509	472.006
25.0	629.614	629.205	616.514	579.261	541.599	495.340	472.006	458.087	454.403
27.5	611.192	611.192	599.730	562.068	522.768	475.281	451.128	440.075	435.572
30.0	589.905	591.133	580.899	543.237	501.890	453.584	432.297	421.653	418.788
32.5	566.161	567.799	560.021	523.587	480.193	432.706	412.238	403.231	402.003
35.0	538.324	542.418	537.915	501.071	456.859	410.600	392.997	386.038	384.400
37.5	511.306	516.218	512.124	477.328	432.297	388.903	372.938	368.844	368.435
40.0	481.012	487.971	486.334	452.765	408.553	366.388	352.879	350.422	352.469
42.5	451.128	456.040	459.725	427.794	383.991	344.691	333.638	333.638	335.276
45.0	417.150	425.337	430.659	399.547	356.972	322.176	314.398	316.854	318.901
47.5	386.038	395.044	401.185	372.938	332.410	300.888	293.929	299.251	303.345
50.0	354.516	362.294	370.891	346.329	306.620	279.601	275.098	281.648	286.151
52.5	323.404	330.363	341.007	317.673	281.239	256.267	255.857	263.636	268.957
55.0	290.654	300.070	310.713	289.426	257.495	235.798	236.617	246.033	252.173
57.5	261.179	268.957	280.420	262.817	232.933	214.511	217.377	228.430	234.570
60.0	230.886	240.301	251.764	236.617	210.008	194.452	197.727	208.780	215.330
62.5	204.277	210.827	223.517	209.598	187.902	174.392	179.714	190.767	197.317
65.0	179.305	185.036	194.861	184.217	165.386	155.971	160.064	172.346	178.486
67.5	153.105	158.018	168.252	160.474	144.099	136.730	142.461	153.924	158.018
70.0	130.999	134.683	143.690	137.140	124.858	118.309	124.040	134.683	139.186
72.5	108.074	112.168	120.355	114.624	106.027	100.706	106.846	115.443	120.355
75.0	88.424	91.699	97.840	94.156	87.606	84.331	89.243	97.431	101.524
77.5	70.412	72.459	77.371	75.324	70.412	67.956	72.868	79.009	81.465
80.0	53.218	54.856	58.540	58.131	54.037	52.809	56.493	61.815	63.453
82.5	37.662	38.072	40.937	40.528	39.300	38.481	40.937	44.212	45.850
85.0	23.334	23.334	25.381	25.381	25.790	24.562	26.200	27.428	28.656
87.5	9.006	9.825	10.644	11.462	11.872	11.462	11.872	12.281	12.691
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	23.333	24.888	26.444	29.555	30.332	29.555	26.444	24.888	23.333
95.0	55.220	55.998	59.109	62.998	63.776	62.998	59.109	55.998	55.220
97.5	89.441	90.219	94.108	97.997	97.219	97.997	94.108	90.219	89.441
100.0	124.440	125.996	129.884	133.773	132.995	133.773	129.884	125.996	124.440
102.5	160.217	163.328	167.216	171.105	171.105	171.105	167.216	163.328	160.217
105.0	199.882	202.993	206.882	209.993	209.215	209.993	206.882	202.993	199.882
107.5	241.881	244.214	246.547	249.658	249.658	249.658	246.547	244.214	241.881
110.0	286.990	286.990	289.323	292.434	291.657	292.434	289.323	286.990	286.990
112.5	332.100	330.544	333.655	338.322	334.433	338.322	333.655	330.544	332.100
115.0	377.209	375.654	377.209	381.098	377.987	381.098	377.209	375.654	377.209
117.5	422.319	423.097	423.874	424.652	422.319	424.652	423.874	423.097	422.319
120.0	468.206	469.762	468.984	468.206	466.651	468.206	468.984	469.762	468.206
122.5	514.871	516.427	516.427	514.093	511.760	514.093	516.427	516.427	514.871
125.0	562.314	564.647	564.647	559.981	557.647	559.981	564.647	564.647	562.314
127.5	609.757	611.312	612.868	605.868	601.202	605.868	612.868	611.312	609.757
130.0	655.644	656.422	657.977	653.311	649.422	653.311	657.977	656.422	655.644
132.5	702.309	701.531	702.309	699.198	694.532	699.198	702.309	701.531	702.309

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-S-835-F-DAO-ITL85125-ITL94331.009.IES****CANDELA TABULATION - (Cont.)**

135.0	748.974	745.085	747.419	745.085	739.641	745.085	747.419	745.085	748.974
137.5	794.084	787.862	791.750	788.640	783.195	788.640	791.750	787.862	794.084
140.0	839.193	832.194	836.860	833.749	827.527	833.749	836.860	832.194	839.193
142.5	880.414	874.970	880.414	875.748	870.303	875.748	880.414	874.970	880.414
145.0	924.746	915.413	921.635	916.968	911.524	916.968	921.635	915.413	924.746
147.5	964.411	955.078	961.300	956.634	951.189	956.634	961.300	955.078	964.411
150.0	1003.299	993.188	999.410	994.744	990.077	994.744	999.410	993.188	1003.299
152.5	1037.520	1029.742	1035.964	1030.520	1026.631	1030.520	1035.964	1029.742	1037.520
155.0	1070.963	1063.186	1068.630	1063.963	1060.075	1063.963	1068.630	1063.186	1070.963
157.5	1103.629	1095.851	1100.518	1095.851	1092.740	1095.851	1100.518	1095.851	1103.629
160.0	1131.628	1125.406	1130.072	1125.406	1123.072	1125.406	1130.072	1125.406	1131.628
162.5	1158.071	1151.072	1156.516	1151.849	1150.294	1151.849	1156.516	1151.072	1158.071
165.0	1179.848	1174.404	1177.515	1175.182	1174.404	1175.182	1177.515	1174.404	1179.848
167.5	1199.292	1194.625	1196.959	1195.403	1195.403	1195.403	1196.959	1194.625	1199.292
170.0	1215.625	1212.514	1214.069	1212.514	1212.514	1212.514	1214.069	1212.514	1215.625
172.5	1227.291	1227.291	1226.513	1226.513	1226.513	1226.513	1226.513	1227.291	1227.291
175.0	1236.624	1236.624	1236.624	1235.846	1236.624	1235.846	1236.624	1236.624	1236.624
177.5	1242.068	1242.846	1242.846	1242.846	1242.846	1242.846	1242.846	1242.846	1242.068
180.0	1244.402	1244.402	1244.402	1244.402	1244.402	1244.402	1244.402	1244.402	1244.402

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-S-835-F-DAO-ITL85125-ITL94331.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	229.11	N.A.	4.70
0-30	478.38	N.A.	9.90
0-40	766.61	N.A.	15.80
0-60	1289.85	N.A.	26.60
0-80	1561.03	N.A.	32.20
0-90	1589.8	N.A.	32.80
10-90	1529.89	N.A.	31.60
20-40	537.49	N.A.	11.10
20-50	820.57	N.A.	17.00
40-70	696.43	N.A.	14.40
60-80	271.18	N.A.	5.60
70-80	97.99	N.A.	2.00
80-90	28.77	N.A.	0.60
90-110	285.31	N.A.	5.90
90-120	659.98	N.A.	13.60
90-130	1162.6	N.A.	24.00
90-150	2311.58	N.A.	47.80
90-180	3251.18	N.A.	67.20
110-180	2965.88	N.A.	61.30
0-180	4840.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.91
10-20	169.21
20-30	249.27
30-40	288.23
40-50	283.08
50-60	240.16
60-70	173.19
70-80	97.99
80-90	28.77
90-100	66.67
100-110	218.64
110-120	374.67
120-130	502.62
130-140	575.00
140-150	573.98
150-160	490.78
160-170	331.53
170-180	117.30

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

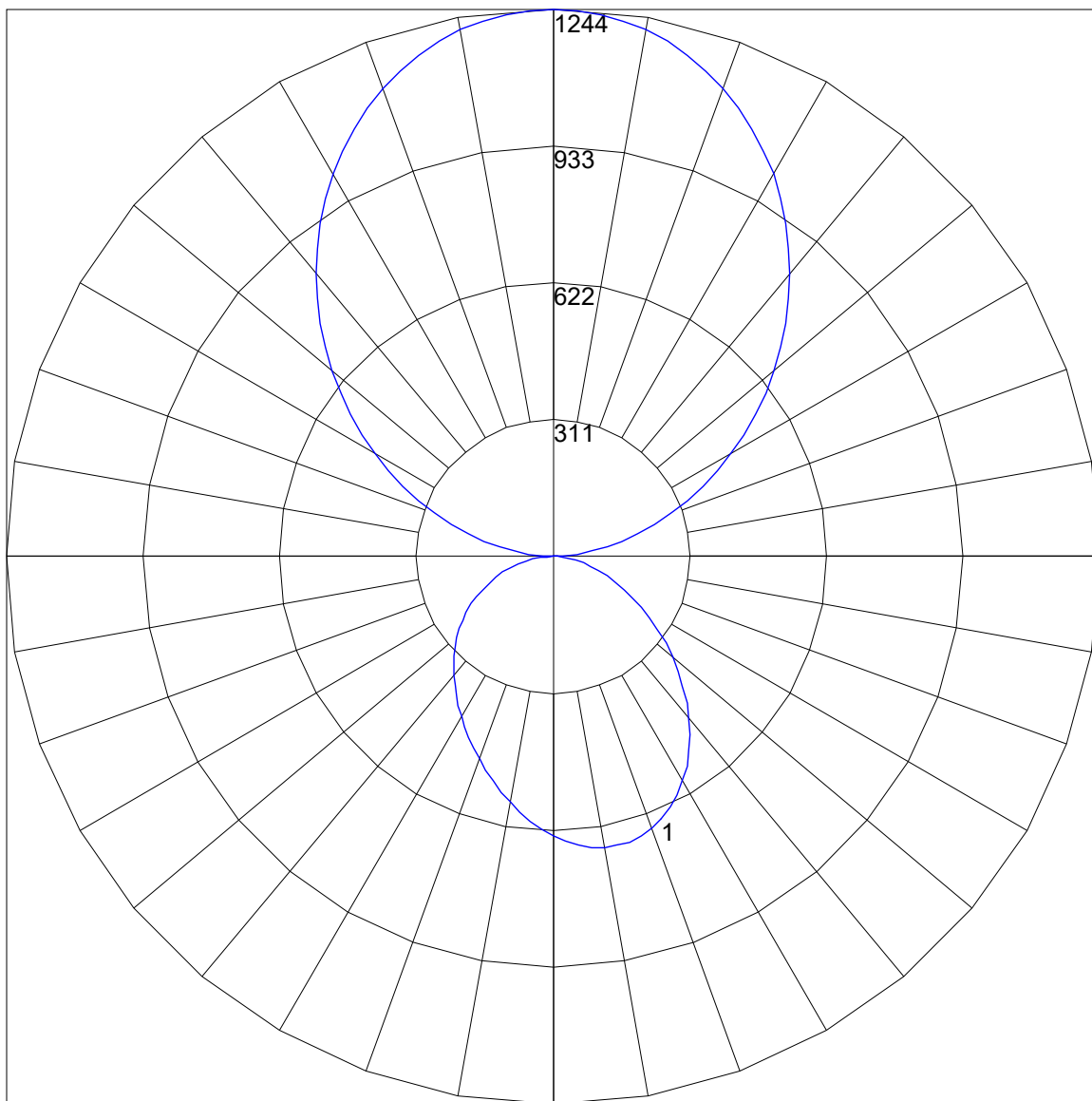
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	62	61	50	48	47	36	35	34	28
2	86	78	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	23	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	52	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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POLAR GRAPH



Maximum Candela = 1244.402 Located At Horizontal Angle = 0, Vertical Angle = 180

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)