

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-H-835-F-DAO-ITL85125-ITL94331.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.001 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-H-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 56.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.4 WATTS

[_ABSOLUTE]LUMENS]6272

[_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	6272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	56.8
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
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	9332	9634	7986
55	8016	8569	7101
65	6711	7294	6190
75	5404	5980	5354
85	4235	4607	4681

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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	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155
2.5	1232.045	1230.489	1224.267	1215.711	1206.377	1195.488	1187.710	1181.487	1179.154
5.0	1251.490	1248.379	1237.489	1220.378	1200.155	1180.709	1162.042	1151.931	1148.042
7.5	1266.268	1260.823	1246.045	1220.378	1190.043	1159.709	1134.041	1120.041	1114.596
10.0	1276.380	1271.713	1249.157	1215.711	1177.598	1136.374	1106.040	1086.595	1077.261
12.5	1279.491	1275.602	1249.157	1206.377	1162.820	1109.929	1075.706	1051.594	1041.482
15.0	1276.380	1271.713	1243.712	1192.377	1141.819	1080.373	1043.038	1015.815	1004.925
17.5	1266.268	1262.379	1233.600	1176.043	1117.707	1049.260	1005.703	980.036	966.813
20.0	1249.157	1246.823	1218.044	1152.708	1091.262	1014.259	969.146	942.701	931.034
22.5	1225.822	1223.489	1197.043	1128.597	1063.261	977.702	934.145	905.366	896.810
25.0	1196.266	1195.488	1171.376	1100.595	1029.037	941.145	896.810	870.365	863.365
27.5	1161.264	1161.264	1139.486	1067.928	993.258	903.033	857.142	836.141	827.586
30.0	1120.819	1123.152	1103.707	1032.149	953.590	861.809	821.363	801.140	795.696
32.5	1075.706	1078.817	1064.039	994.814	912.366	822.141	783.251	766.139	763.806
35.0	1022.815	1030.593	1022.037	952.034	868.032	780.139	746.694	733.471	730.360
37.5	971.480	980.813	973.035	906.922	821.363	738.916	708.581	700.803	700.025
40.0	913.922	927.145	924.034	860.253	776.250	696.136	670.469	665.802	669.691
42.5	857.142	866.476	873.476	812.807	729.582	654.913	633.912	633.912	637.023
45.0	792.584	808.140	818.252	759.139	678.247	612.133	597.355	602.022	605.911
47.5	733.471	750.583	762.250	708.581	631.578	571.687	558.465	568.576	576.354
50.0	673.580	688.358	704.692	658.024	582.577	531.241	522.686	535.131	543.686
52.5	614.467	627.689	647.912	603.577	534.353	486.907	486.129	500.907	511.019
55.0	552.242	570.132	590.355	549.909	489.240	448.016	449.572	467.461	479.128
57.5	496.240	511.019	532.797	499.351	442.572	407.570	413.015	434.016	445.683
60.0	438.683	456.572	478.351	449.572	399.014	369.458	375.680	396.681	409.126
62.5	388.125	400.570	424.682	398.237	357.013	331.345	341.457	362.458	374.902
65.0	340.679	351.568	370.236	350.013	314.234	296.344	304.122	327.456	339.123
67.5	290.899	300.233	319.678	304.900	273.788	259.787	270.676	292.455	300.233
70.0	248.898	255.898	273.010	260.565	237.231	224.786	235.675	255.898	264.454
72.5	205.341	213.119	228.675	217.786	201.452	191.340	203.007	219.341	228.675
75.0	168.006	174.228	185.896	178.895	166.451	160.228	169.562	185.118	192.896
77.5	133.783	137.672	147.005	143.116	133.783	129.116	138.450	150.117	154.783
80.0	101.115	104.226	111.226	110.448	102.670	100.337	107.337	117.449	120.560
82.5	71.558	72.336	77.781	77.003	74.669	73.114	77.781	84.003	87.114
85.0	44.335	44.335	48.224	48.224	49.002	46.668	49.780	52.113	54.446
87.5	17.112	18.667	20.223	21.779	22.556	21.779	22.556	23.334	24.112
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	23.332	24.888	26.444	29.555	30.332	29.555	26.444	24.888	23.332
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	557.648	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-H-835-F-DAO-ITL85125-ITL94331.001.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	788.639	783.195	788.639	791.750	787.862	794.084
140.0	839.193	832.193	836.860	833.749	827.527	833.749	836.860	832.193	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	1194.626	1196.959	1195.403	1195.403	1195.403	1196.959	1194.626	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-H-835-F-DAO-ITL85125-ITL94331.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	435.32	N.A.	6.90
0-30	908.93	N.A.	14.50
0-40	1456.55	N.A.	23.20
0-60	2450.71	N.A.	39.10
0-80	2965.95	N.A.	47.30
0-90	3020.62	N.A.	48.20
10-90	2906.8	N.A.	46.30
20-40	1021.24	N.A.	16.30
20-50	1559.09	N.A.	24.90
40-70	1323.22	N.A.	21.10
60-80	515.24	N.A.	8.20
70-80	186.18	N.A.	3.00
80-90	54.67	N.A.	0.90
90-110	285.31	N.A.	4.50
90-120	659.98	N.A.	10.50
90-130	1162.6	N.A.	18.50
90-150	2311.58	N.A.	36.90
90-180	3251.18	N.A.	51.80
110-180	2965.88	N.A.	47.30
0-180	6271.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.82
10-20	321.50
20-30	473.61
30-40	547.63
40-50	537.85
50-60	456.31
60-70	329.06
70-80	186.18
80-90	54.67
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

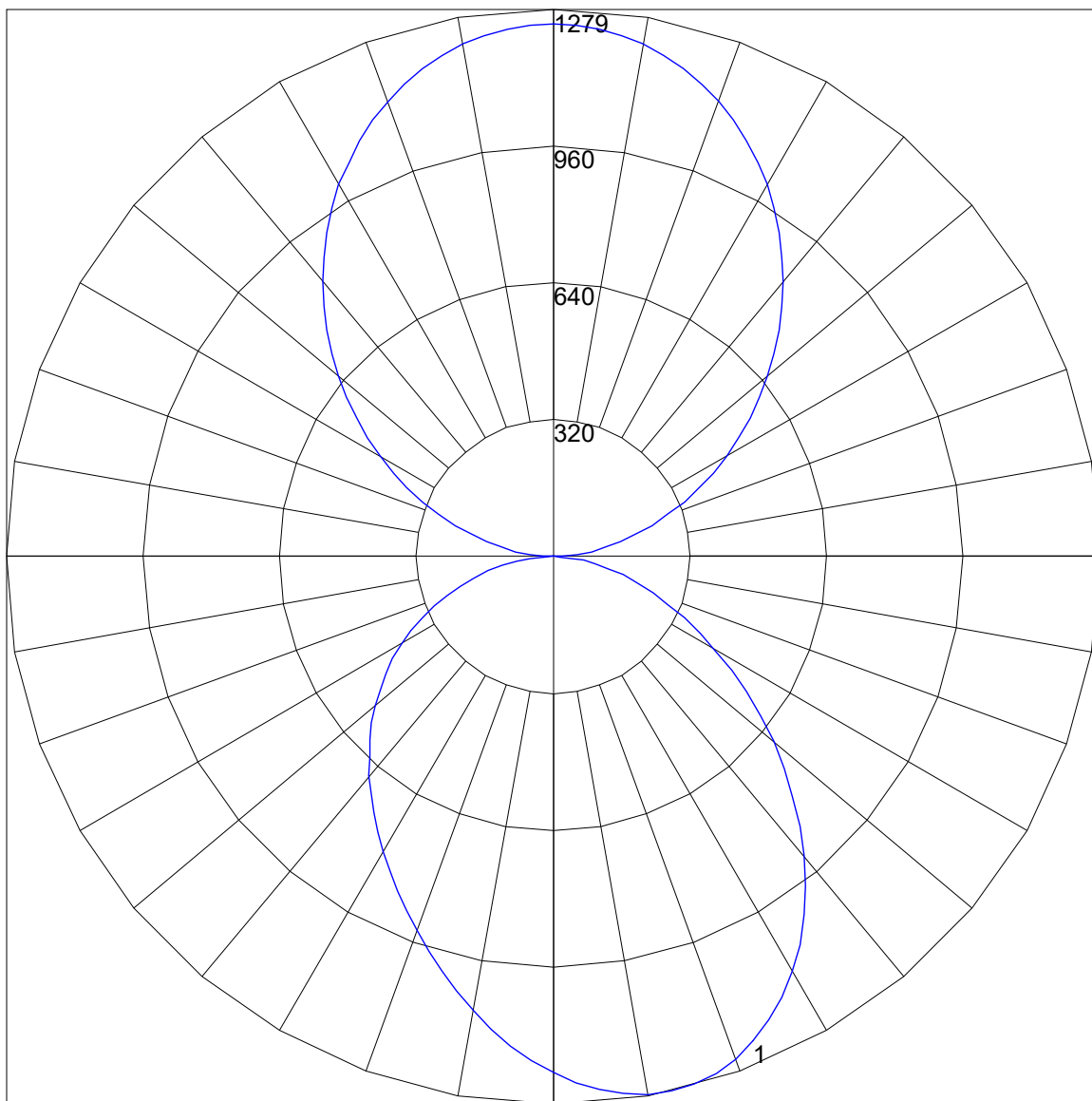
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39	34
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	35	33	29
4	74	63	56	50	68	59	52	46	50	45	40	41	38	34	34	31	29	25
5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	29	26	28	25	22	19
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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POLAR GRAPH



Maximum Candela = 1279.491 Located At Horizontal Angle = 0, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)