

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-V-835-F-DAO-ITL85125-ITL94331.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.007 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-V-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 67.1 WATTS

[_ABSOLUTE]LUMENS]7135

[_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	7135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	65.5
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
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	11998	12386	10267
55	10306	11017	9130
65	8629	9377	7959
75	6948	7688	6884
85	5445	5923	6018

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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	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000
2.5	1584.000	1582.000	1574.000	1563.000	1551.000	1537.000	1527.000	1519.000	1516.000
5.0	1609.000	1605.000	1591.000	1569.000	1543.000	1518.000	1494.000	1481.000	1476.000
7.5	1628.000	1621.000	1602.000	1569.000	1530.000	1491.000	1458.000	1440.000	1433.000
10.0	1641.000	1635.000	1606.000	1563.000	1514.000	1461.000	1422.000	1397.000	1385.000
12.5	1645.000	1640.000	1606.000	1551.000	1495.000	1427.000	1383.000	1352.000	1339.000
15.0	1641.000	1635.000	1599.000	1533.000	1468.000	1389.000	1341.000	1306.000	1292.000
17.5	1628.000	1623.000	1586.000	1512.000	1437.000	1349.000	1293.000	1260.000	1243.000
20.0	1606.000	1603.000	1566.000	1482.000	1403.000	1304.000	1246.000	1212.000	1197.000
22.5	1576.000	1573.000	1539.000	1451.000	1367.000	1257.000	1201.000	1164.000	1153.000
25.0	1538.000	1537.000	1506.000	1415.000	1323.000	1210.000	1153.000	1119.000	1110.000
27.5	1493.000	1493.000	1465.000	1373.000	1277.000	1161.000	1102.000	1075.000	1064.000
30.0	1441.000	1444.000	1419.000	1327.000	1226.000	1108.000	1056.000	1030.000	1023.000
32.5	1383.000	1387.000	1368.000	1279.000	1173.000	1057.000	1007.000	985.000	982.000
35.0	1315.000	1325.000	1314.000	1224.000	1116.000	1003.000	960.000	943.000	939.000
37.5	1249.000	1261.000	1251.000	1166.000	1056.000	950.000	911.000	901.000	900.000
40.0	1175.000	1192.000	1188.000	1106.000	998.000	895.000	862.000	856.000	861.000
42.5	1102.000	1114.000	1123.000	1045.000	938.000	842.000	815.000	815.000	819.000
45.0	1019.000	1039.000	1052.000	976.000	872.000	787.000	768.000	774.000	779.000
47.5	943.000	965.000	980.000	911.000	812.000	735.000	718.000	731.000	741.000
50.0	866.000	885.000	906.000	846.000	749.000	683.000	672.000	688.000	699.000
52.5	790.000	807.000	833.000	776.000	687.000	626.000	625.000	644.000	657.000
55.0	710.000	733.000	759.000	707.000	629.000	576.000	578.000	601.000	616.000
57.5	638.000	657.000	685.000	642.000	569.000	524.000	531.000	558.000	573.000
60.0	564.000	587.000	615.000	578.000	513.000	475.000	483.000	510.000	526.000
62.5	499.000	515.000	546.000	512.000	459.000	426.000	439.000	466.000	482.000
65.0	438.000	452.000	476.000	450.000	404.000	381.000	391.000	421.000	436.000
67.5	374.000	386.000	411.000	392.000	352.000	334.000	348.000	376.000	386.000
70.0	320.000	329.000	351.000	335.000	305.000	289.000	303.000	329.000	340.000
72.5	264.000	274.000	294.000	280.000	259.000	246.000	261.000	282.000	294.000
75.0	216.000	224.000	239.000	230.000	214.000	206.000	218.000	238.000	248.000
77.5	172.000	177.000	189.000	184.000	172.000	166.000	178.000	193.000	199.000
80.0	130.000	134.000	143.000	142.000	132.000	129.000	138.000	151.000	155.000
82.5	92.000	93.000	100.000	99.000	96.000	94.000	100.000	108.000	112.000
85.0	57.000	57.000	62.000	62.000	63.000	60.000	64.000	67.000	70.000
87.5	22.000	24.000	26.000	28.000	29.000	28.000	29.000	30.000	31.000
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-V-835-F-DAO-ITL85125-ITL94331.007.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-V-835-F-DAO-ITL85125-ITL94331.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	7.80
0-30	1168.58	N.A.	16.40
0-40	1872.64	N.A.	26.20
0-60	3150.8	N.A.	44.20
0-80	3813.23	N.A.	53.40
0-90	3883.51	N.A.	54.40
10-90	3737.17	N.A.	52.40
20-40	1312.97	N.A.	18.40
20-50	2004.47	N.A.	28.10
40-70	1701.22	N.A.	23.80
60-80	662.43	N.A.	9.30
70-80	239.36	N.A.	3.40
80-90	70.28	N.A.	1.00
90-110	285.31	N.A.	4.00
90-120	659.98	N.A.	9.30
90-130	1162.6	N.A.	16.30
90-150	2311.58	N.A.	32.40
90-180	3251.18	N.A.	45.60
110-180	2965.88	N.A.	41.60
0-180	7134.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.34
10-20	413.34
20-30	608.90
30-40	704.07
40-50	691.50
50-60	586.66
60-70	423.06
70-80	239.36
80-90	70.28
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

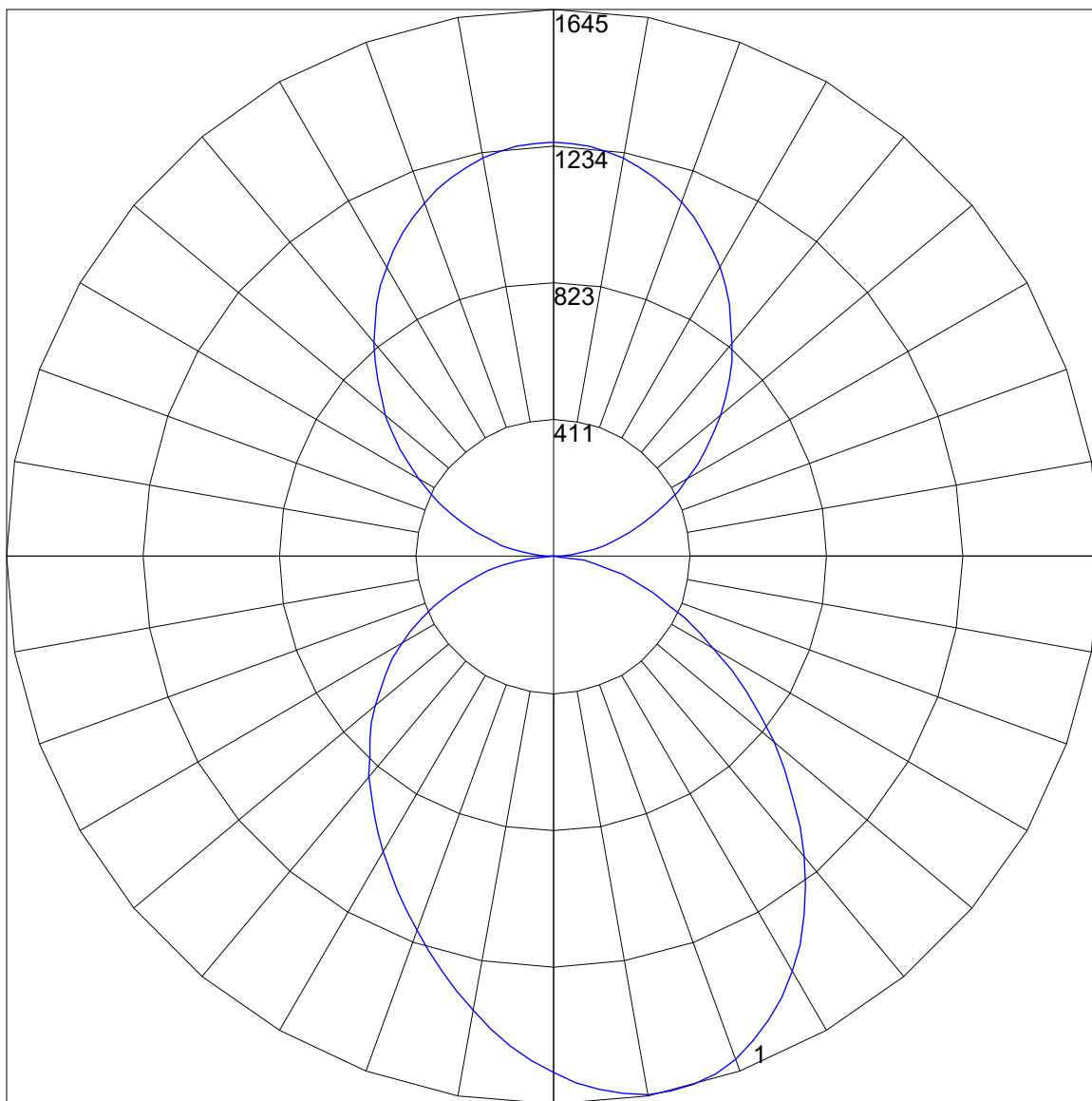
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	87	92	88	84	81	75	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	49	43	64	54	46	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	24	20	18	16
10	48	36	28	24	44	34	27	22	29	24	20	26	21	18	22	19	16	14

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POLAR GRAPH



Maximum Candela = 1645 Located At Horizontal Angle = 0, Vertical Angle = 12.5

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