

# 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-2-ID-4FT-V-S-8-35-ITL85132.004.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85132.004 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/11/15  
[ISSUE DATE]04/26/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-2-ID-4ft-V-S-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.4 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.6 WATTS  
[ABSOLUTE LUMENS]5113  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85132. 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](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	5113
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	51.4
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)	0.18 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6583	6311	6003
55	5992	5699	5407
65	5412	5132	4882
75	4874	4610	4418
85	4278	4136	3922

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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	537.895	537.895	537.895	537.895	537.895
2.5	536.667	537.485	537.076	537.076	537.076
5.0	534.620	535.029	534.211	533.801	533.801
7.5	530.117	530.526	529.298	528.889	528.889
10.0	524.386	523.567	522.749	522.339	521.520
12.5	516.608	514.971	514.152	512.924	511.287
15.0	508.012	504.737	503.918	501.462	499.415
17.5	497.368	492.865	491.637	487.953	485.497
20.0	485.088	479.766	477.719	473.216	469.532
22.5	470.760	465.029	462.573	457.661	453.158
25.0	456.023	449.474	445.789	440.468	435.555
27.5	439.240	433.509	429.006	422.047	416.725
30.0	422.047	415.906	410.585	402.807	397.485
32.5	403.626	397.485	391.754	383.158	379.064
35.0	385.614	378.655	372.515	363.099	359.006
37.5	366.374	359.825	352.865	343.860	339.357
40.0	346.725	339.766	333.626	323.392	319.298
42.5	326.667	320.117	313.567	303.333	299.240
45.0	306.608	300.468	293.918	283.684	279.591
47.5	286.550	280.409	273.860	264.035	260.351
50.0	266.082	260.351	254.210	244.386	241.111
52.5	246.023	240.702	234.561	225.556	222.281
55.0	226.374	221.871	215.322	207.135	204.269
57.5	207.135	203.041	196.491	189.123	186.667
60.0	187.485	183.801	178.070	171.111	169.064
62.5	169.064	165.380	160.059	154.737	152.281
65.0	150.643	147.368	142.865	137.953	135.906
67.5	133.450	129.766	126.491	121.579	119.942
70.0	115.848	113.392	109.708	106.433	104.386
72.5	99.064	97.017	94.152	91.287	89.649
75.0	83.099	81.053	78.597	76.550	75.322
77.5	67.544	65.906	64.269	62.632	60.994
80.0	52.398	51.579	49.941	48.714	47.895
82.5	38.070	37.252	36.433	35.614	34.795
85.0	24.561	24.152	23.743	23.333	22.515
87.5	11.053	10.643	11.053	11.462	11.053
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	30.000	30.000	33.000	33.000
95.0	71.000	68.000	68.000	69.000	70.000
97.5	112.000	109.000	107.000	108.000	108.000
100.0	154.000	149.000	149.000	149.000	148.000
102.5	198.000	194.000	192.000	191.000	191.000
105.0	244.000	241.000	236.000	235.000	234.000
107.5	291.000	288.000	282.000	281.000	280.000
110.0	340.000	337.000	332.000	330.000	327.000
112.5	391.000	386.000	383.000	378.000	375.000
115.0	442.000	439.000	437.000	427.000	425.000
117.5	496.000	491.000	491.000	479.000	477.000
120.0	551.000	543.000	545.000	533.000	529.000
122.5	603.000	595.000	599.000	589.000	582.000
125.0	661.000	649.000	653.000	643.000	638.000
127.5	718.000	705.000	707.000	699.000	697.000
130.0	774.000	761.000	763.000	753.000	754.000
132.5	830.000	816.000	819.000	809.000	809.000

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CANDELA TABULATION - (Cont.)

135.0	884.000	871.000	875.000	866.000	866.000
137.5	939.000	926.000	930.000	922.000	921.000
140.0	994.000	981.000	984.000	979.000	976.000
142.5	1046.000	1032.000	1036.000	1031.000	1027.000
145.0	1099.000	1084.000	1088.000	1084.000	1077.000
147.5	1148.000	1133.000	1138.000	1132.000	1125.000
150.0	1195.000	1180.000	1186.000	1179.000	1173.000
152.5	1240.000	1225.000	1231.000	1225.000	1219.000
155.0	1283.000	1268.000	1275.000	1269.000	1263.000
157.5	1320.000	1306.000	1314.000	1308.000	1302.000
160.0	1356.000	1343.000	1350.000	1344.000	1338.000
162.5	1387.000	1376.000	1381.000	1377.000	1373.000
165.0	1415.000	1405.000	1408.000	1406.000	1403.000
167.5	1436.000	1430.000	1432.000	1430.000	1429.000
170.0	1455.000	1452.000	1453.000	1451.000	1450.000
172.5	1471.000	1470.000	1470.000	1469.000	1469.000
175.0	1482.000	1482.000	1482.000	1482.000	1481.000
177.5	1488.000	1489.000	1489.000	1489.000	1488.000
180.0	1492.000	1492.000	1492.000	1492.000	1492.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	192.30	N.A.	3.80
0-30	397.22	N.A.	7.80
0-40	629.65	N.A.	12.30
0-60	1047.9	N.A.	20.50
0-80	1273.38	N.A.	24.90
0-90	1299.56	N.A.	25.40
10-90	1248.92	N.A.	24.40
20-40	437.35	N.A.	8.60
20-50	663.24	N.A.	13.00
40-70	560.03	N.A.	11.00
60-80	225.48	N.A.	4.40
70-80	83.69	N.A.	1.60
80-90	26.18	N.A.	0.50
90-110	329.21	N.A.	6.40
90-120	759.73	N.A.	14.90
90-130	1340.41	N.A.	26.20
90-150	2691.63	N.A.	52.60
90-180	3813.36	N.A.	74.60
110-180	3484.15	N.A.	68.10
0-180	5112.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.64
10-20	141.66
20-30	204.91
30-40	232.44
40-50	225.88
50-60	192.36
60-70	141.78
70-80	83.69
80-90	26.18
90-100	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

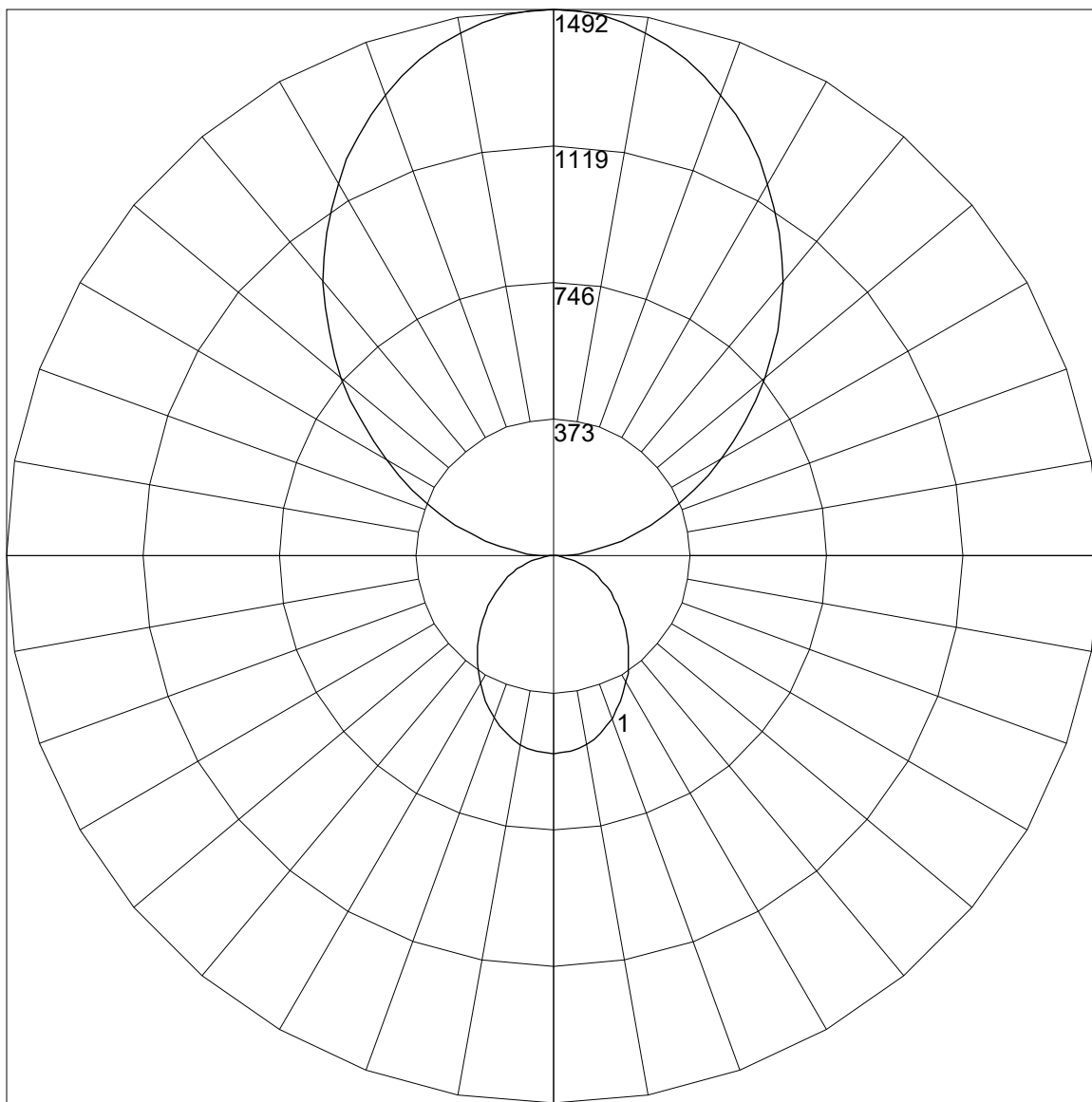
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	25
1	92	88	84	81	82	79	76	73	61	59	57	45	43	42	30	29	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	60	55	50	47	43	40	35	32	30	23	22	20	15
4	70	60	52	46	62	54	47	42	42	37	34	31	28	26	21	19	18	13
5	64	53	45	40	57	48	41	36	37	33	29	28	25	22	19	17	15	12
6	59	48	40	34	52	43	36	31	34	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	23	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

POLAR GRAPH



Maximum Candela = 1492 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)