

# 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-S-V-835-OPEN-DL-ITL90630 ITL85134.015.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.015 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/21/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-S-V-835-OPEN-DL

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 51.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 53.5 WATTS

[\_ABSOLUTE]LUMENS]4889

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL90630 and ITL85134. 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	4889
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	51.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.99 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12715	11046	10651
55	11800	10050	9729
65	10677	8956	8776
75	8927	7725	7776
85	6240	6606	6922

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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	969.000	969.000	969.000	969.000	969.000
2.5	969.000	968.000	969.000	970.000	970.000
5.0	964.000	965.000	967.000	970.000	971.000
7.5	957.000	959.000	965.000	970.000	971.000
10.0	948.000	950.000	961.000	968.000	969.000
12.5	936.000	939.000	954.000	962.000	965.000
15.0	921.000	925.000	944.000	955.000	957.000
17.5	902.000	909.000	931.000	944.000	947.000
20.0	882.000	891.000	916.000	930.000	932.000
22.5	860.000	870.000	899.000	914.000	917.000
25.0	833.000	848.000	880.000	895.000	900.000
27.5	808.000	824.000	859.000	876.000	880.000
30.0	780.000	799.000	836.000	855.000	859.000
32.5	751.000	773.000	813.000	832.000	838.000
35.0	718.000	745.000	788.000	808.000	814.000
37.5	687.000	717.000	761.000	784.000	791.000
40.0	655.000	687.000	735.000	759.000	766.000
42.5	621.000	657.000	706.000	732.000	740.000
45.0	586.000	627.000	677.000	705.000	714.000
47.5	551.000	595.000	648.000	677.000	686.000
50.0	517.000	562.000	618.000	649.000	659.000
52.5	480.000	530.000	587.000	621.000	632.000
55.0	445.000	497.000	556.000	591.000	603.000
57.5	410.000	464.000	525.000	561.000	573.000
60.0	374.000	429.000	493.000	531.000	544.000
62.5	337.000	395.000	461.000	501.000	514.000
65.0	301.000	362.000	427.000	468.000	483.000
67.5	266.000	328.000	395.000	438.000	454.000
70.0	230.000	293.000	362.000	407.000	421.000
72.5	194.000	259.000	330.000	375.000	391.000
75.0	159.000	226.000	298.000	344.000	361.000
77.5	126.000	195.000	266.000	314.000	332.000
80.0	96.000	164.000	238.000	286.000	302.000
82.5	67.000	136.000	211.000	259.000	276.000
85.0	43.000	112.000	187.000	235.000	252.000
87.5	25.000	92.000	166.000	214.000	230.000
90.0	11.000	78.000	150.000	198.000	213.000
92.5	17.192	44.207	73.269	91.280	98.238
95.0	33.565	59.762	87.596	105.197	110.927
97.5	50.756	75.316	101.922	119.114	124.845
100.0	67.539	90.461	116.658	133.031	138.762
102.5	85.549	107.244	132.622	147.767	153.497
105.0	103.969	124.435	148.585	162.912	168.642
107.5	122.798	142.446	165.368	178.876	184.606
110.0	142.446	160.865	182.969	195.249	200.161
112.5	161.684	180.104	200.979	212.440	216.943
115.0	182.560	198.933	220.218	230.451	234.544
117.5	203.845	218.990	239.456	248.461	251.736
120.0	225.130	238.637	259.104	267.290	270.155
122.5	246.415	258.694	278.342	286.938	289.394
125.0	268.518	279.161	297.580	306.176	309.860
127.5	290.212	300.036	317.637	325.415	329.508
130.0	312.316	319.684	338.104	345.062	348.746
132.5	334.829	340.560	358.161	364.710	367.166

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-OPEN-DL-ITL90630 ITL85134.015.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	356.523	361.026	377.808	384.358	386.813
<b>137.5</b>	378.218	381.902	397.047	403.596	406.052
<b>140.0</b>	399.912	401.549	415.466	422.425	424.881
<b>142.5</b>	420.788	421.197	433.477	441.254	442.891
<b>145.0</b>	440.435	440.435	451.896	458.855	459.674
<b>147.5</b>	460.083	458.446	469.497	474.819	476.047
<b>150.0</b>	478.503	476.047	486.280	491.601	491.601
<b>152.5</b>	495.285	492.420	501.834	506.746	506.746
<b>155.0</b>	511.658	508.383	516.979	521.073	521.073
<b>157.5</b>	526.803	522.710	530.896	533.352	534.171
<b>160.0</b>	539.902	536.218	543.176	545.223	546.041
<b>162.5</b>	552.181	548.497	554.637	555.456	556.684
<b>165.0</b>	562.824	559.959	564.052	564.870	566.098
<b>167.5</b>	571.829	569.782	572.238	573.057	573.876
<b>170.0</b>	579.197	578.378	578.788	579.606	580.016
<b>172.5</b>	585.337	584.927	584.518	585.337	585.337
<b>175.0</b>	589.021	589.021	589.021	589.021	589.021
<b>177.5</b>	591.886	591.886	591.886	591.477	591.886
<b>180.0</b>	592.705	592.705	592.705	592.705	592.705

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-OPEN-DL-ITL90630 ITL85134.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	357.46	N.A.	7.30
0-30	759.62	N.A.	15.50
0-40	1246.01	N.A.	25.50
0-60	2244.11	N.A.	45.90
0-80	2951.63	N.A.	60.40
0-90	3140.47	N.A.	64.20
10-90	3048.37	N.A.	62.30
20-40	888.55	N.A.	18.20
20-50	1401.69	N.A.	28.70
40-70	1406.86	N.A.	28.80
60-80	707.52	N.A.	14.50
70-80	298.75	N.A.	6.10
80-90	188.84	N.A.	3.90
90-110	251.54	N.A.	5.10
90-120	464.31	N.A.	9.50
90-130	726.60	N.A.	14.90
90-150	1296.66	N.A.	26.50
90-180	1748.9	N.A.	35.80
110-180	1497.35	N.A.	30.60
0-180	4889.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.10
10-20	265.37
20-30	402.16
30-40	486.39
40-50	513.14
50-60	484.96
60-70	408.77
70-80	298.75
80-90	188.84
90-100	99.95
100-110	151.59
110-120	212.76
120-130	262.29
130-140	288.44
140-150	281.63
150-160	237.47
160-170	158.85
170-180	55.92

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

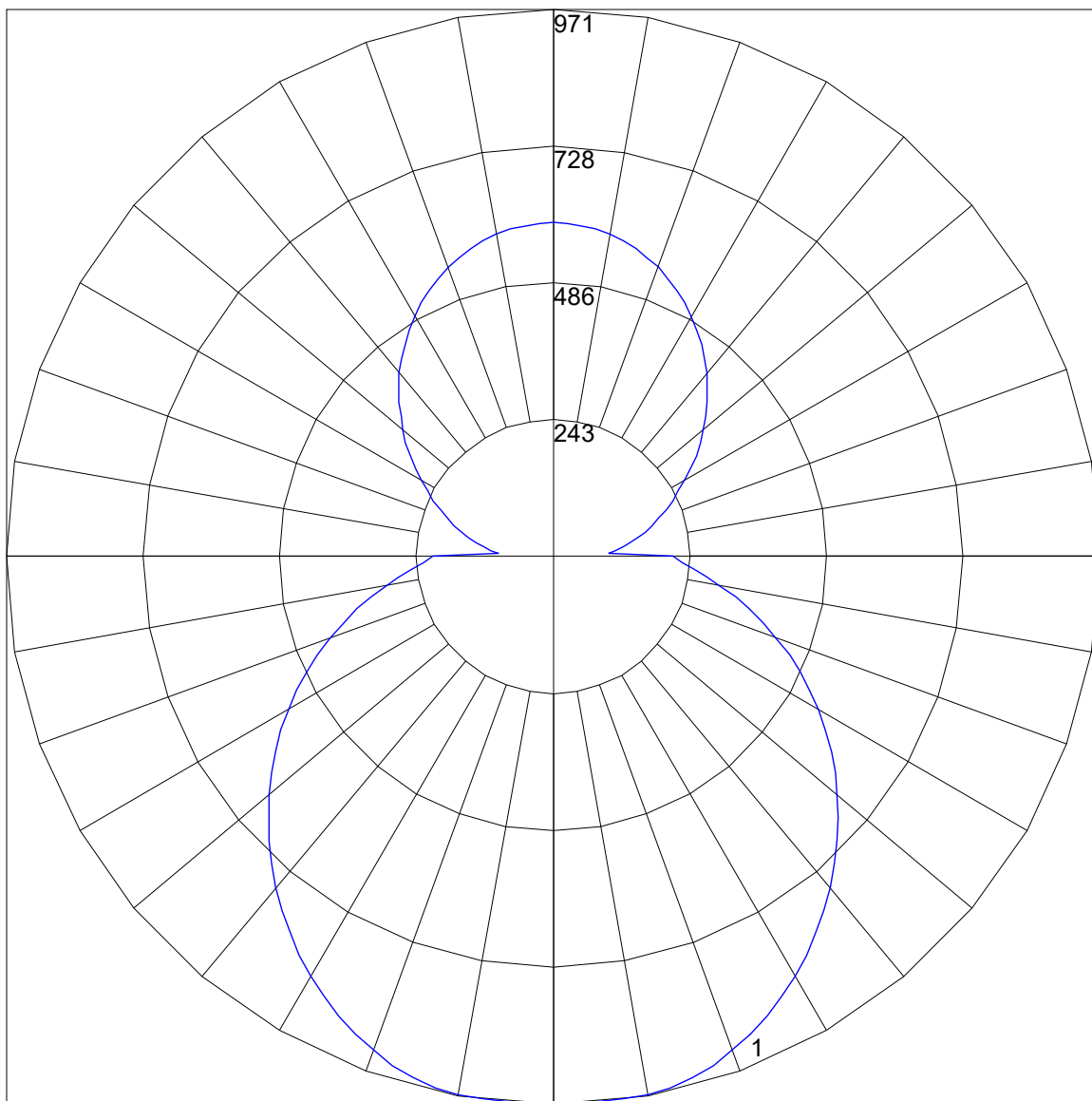
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	99	94	90	86	93	89	85	81	78	75	72	68	66	63	59	57	55	51
2	90	82	75	69	84	77	70	65	67	63	58	59	55	52	51	48	45	41
3	82	71	63	57	76	67	60	54	59	53	48	51	47	43	45	41	38	34
4	75	63	54	48	70	59	51	45	52	46	41	46	41	37	40	36	32	29
5	68	56	47	41	64	53	45	39	46	40	35	41	36	31	35	31	28	25
6	63	50	41	35	59	47	39	34	42	35	30	37	31	27	32	28	24	22
7	58	45	37	31	54	43	35	29	38	31	27	33	28	24	29	25	22	19
8	54	41	33	27	50	39	31	26	35	28	24	31	25	22	27	23	19	17
9	50	37	29	24	47	35	28	23	32	26	21	28	23	19	25	20	17	15
10	47	34	27	22	44	33	26	21	29	23	19	26	21	17	23	19	16	14

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## POLAR GRAPH



Maximum Candela = 971 Located At Horizontal Angle = 90, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)