

# 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-H-V-835-F-DL-ABL-8H-ITL90630 ITL85134.209.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.209 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]06/24/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-H-V-835-OPEN-DL-ABL-8H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 65.2 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 66.7 WATTS

[\_ABSOLUTE]LUMENS]6448

[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	6448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	65.2
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 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	32.672	84.014	139.246	173.474	186.698
95.0	63.788	113.575	166.472	199.923	210.813
97.5	96.461	143.135	193.699	226.371	237.262
100.0	128.355	171.918	221.704	252.820	263.711
102.5	162.583	203.812	252.042	280.825	291.716
105.0	197.589	236.484	282.381	309.608	320.498
107.5	233.373	270.712	314.275	339.946	350.837
110.0	270.712	305.718	347.725	371.062	380.397
112.5	307.274	342.280	381.953	403.735	412.292
115.0	346.947	378.064	418.515	437.963	445.742
117.5	387.399	416.181	455.077	472.190	478.414
120.0	427.850	453.521	492.416	507.974	513.420
122.5	468.301	491.638	528.978	545.314	549.981
125.0	510.308	530.534	565.540	581.876	588.877
127.5	551.537	570.207	603.657	618.437	626.216
130.0	593.544	607.547	642.553	655.777	662.778
132.5	636.329	647.220	680.670	693.117	697.784

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-DL-ABL-8H-ITL90630 ITL85134.209.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	677.558	686.115	718.010	730.456	735.124
<b>137.5</b>	718.788	725.789	754.571	767.018	771.685
<b>140.0</b>	760.017	763.128	789.577	802.802	807.469
<b>142.5</b>	799.690	800.468	823.805	838.586	841.697
<b>145.0</b>	837.030	837.030	858.811	872.036	873.591
<b>147.5</b>	874.369	871.258	892.261	902.374	904.708
<b>150.0</b>	909.375	904.708	924.155	934.268	934.268
<b>152.5</b>	941.269	935.824	953.716	963.051	963.051
<b>155.0</b>	972.386	966.163	982.499	990.278	990.278
<b>157.5</b>	1001.168	993.389	1008.947	1013.615	1015.171
<b>160.0</b>	1026.062	1019.060	1032.285	1036.174	1037.730
<b>162.5</b>	1049.399	1042.398	1054.066	1055.622	1057.956
<b>165.0</b>	1069.624	1064.179	1071.958	1073.514	1075.848
<b>167.5</b>	1086.738	1082.849	1087.516	1089.072	1090.628
<b>170.0</b>	1100.741	1099.185	1099.963	1101.519	1102.296
<b>172.5</b>	1112.409	1111.631	1110.853	1112.409	1112.409
<b>175.0</b>	1119.410	1119.410	1119.410	1119.410	1119.410
<b>177.5</b>	1124.856	1124.856	1124.856	1124.078	1124.856
<b>180.0</b>	1126.412	1126.412	1126.412	1126.412	1126.412

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-DL-ABL-8H-ITL90630 ITL85134.209.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	357.46	N.A.	5.50
0-30	759.62	N.A.	11.80
0-40	1246.01	N.A.	19.30
0-60	2244.11	N.A.	34.80
0-80	2951.63	N.A.	45.80
0-90	3140.47	N.A.	48.70
10-90	3048.37	N.A.	47.30
20-40	888.55	N.A.	13.80
20-50	1401.69	N.A.	21.70
40-70	1406.86	N.A.	21.80
60-80	707.52	N.A.	11.00
70-80	298.75	N.A.	4.60
80-90	188.84	N.A.	2.90
90-110	461.45	N.A.	7.20
90-120	865.80	N.A.	13.40
90-130	1364.27	N.A.	21.20
90-150	2447.66	N.A.	38.00
90-180	3307.11	N.A.	51.30
110-180	2845.66	N.A.	44.10
0-180	6447.58	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	173.36
100-110	288.10
110-120	404.35
120-130	498.47
130-140	548.17
140-150	535.22
150-160	451.30
160-170	301.88
170-180	106.27

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

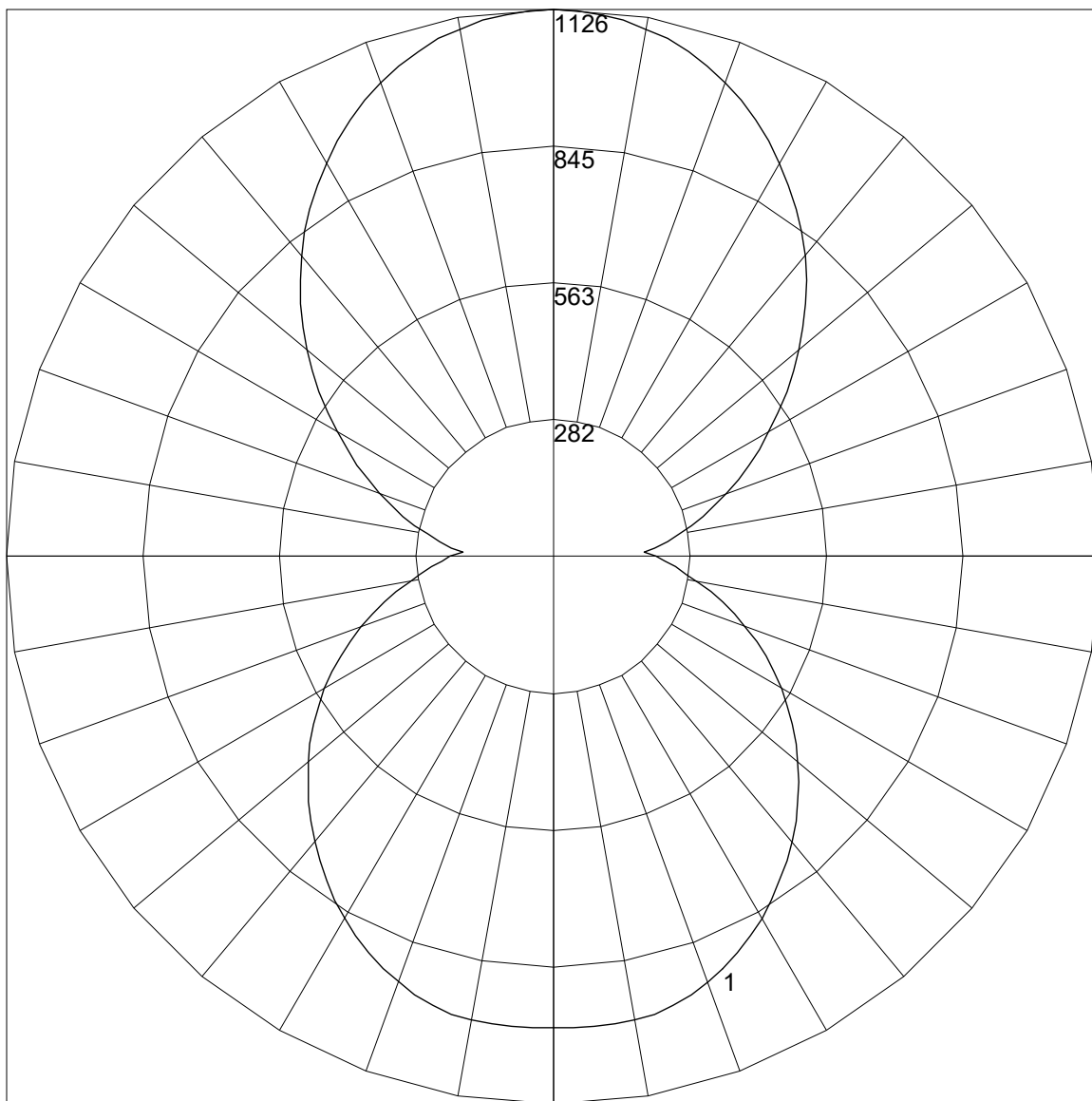
Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	83	83	83	68	68	68	55	55	55	49
1	96	91	87	83	88	84	81	77	71	68	65	58	56	54	47	45	44	39
2	87	79	73	67	80	73	67	62	61	57	53	50	47	45	40	38	36	31
3	79	69	61	55	73	64	57	52	54	48	44	44	40	37	35	33	30	26
4	72	61	53	46	66	56	49	43	47	42	37	39	35	31	31	28	26	22
5	66	54	46	40	61	50	43	37	42	36	32	35	31	27	28	25	22	19
6	61	49	40	34	56	45	37	32	38	32	28	32	27	24	25	22	19	16
7	56	44	35	30	52	40	33	28	34	29	24	29	24	21	23	20	17	15
8	52	40	32	26	48	37	30	25	31	26	21	26	22	18	21	18	15	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	16	20	16	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

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POLAR GRAPH



Maximum Candela = 1126.412 Located At Horizontal Angle = 0, Vertical Angle = 180

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