

# 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-B-V-835-F-DL-ABL-8H-ITL90630 ITL85134.212.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.212 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-B-V-835-OPEN-DL-ABL-8H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 55.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 57.3 WATTS

[\_ABSOLUTE]LUMENS]5334

[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	5334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	55.3
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	21.613	55.577	92.114	114.756	123.504
95.0	42.197	75.132	110.125	132.253	139.457
97.5	63.811	94.687	128.136	149.749	156.954
100.0	84.909	113.727	146.662	167.246	174.450
102.5	107.552	134.826	166.731	185.771	192.976
105.0	130.709	156.439	186.800	204.812	212.016
107.5	154.381	179.082	207.899	224.881	232.085
110.0	179.082	202.239	230.027	245.465	251.640
112.5	203.268	226.425	252.670	267.078	272.739
115.0	229.512	250.097	276.856	289.721	294.867
117.5	256.272	275.312	301.042	312.363	316.480
120.0	283.031	300.013	325.743	336.035	339.637
122.5	309.790	325.228	349.929	360.736	363.824
125.0	337.579	350.959	374.116	384.922	389.554
127.5	364.853	377.203	399.331	409.109	414.255
130.0	392.641	401.904	425.061	433.810	438.441
132.5	420.944	428.149	450.277	458.510	461.598

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-V-835-F-DL-ABL-8H-ITL90630 ITL85134.212.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	448.218	453.879	474.978	483.211	486.299
<b>137.5</b>	475.492	480.124	499.164	507.398	510.485
<b>140.0</b>	502.766	504.825	522.321	531.069	534.157
<b>142.5</b>	529.011	529.525	544.963	554.741	556.799
<b>145.0</b>	553.712	553.712	568.121	576.869	577.898
<b>147.5</b>	578.413	576.354	590.249	596.938	598.482
<b>150.0</b>	601.570	598.482	611.347	618.037	618.037
<b>152.5</b>	622.668	619.066	630.902	637.077	637.077
<b>155.0</b>	643.253	639.136	649.942	655.088	655.088
<b>157.5</b>	662.293	657.147	667.439	670.526	671.556
<b>160.0</b>	678.760	674.129	682.877	685.450	686.479
<b>162.5</b>	694.198	689.567	697.286	698.315	699.859
<b>165.0</b>	707.578	703.976	709.121	710.151	711.694
<b>167.5</b>	718.899	716.326	719.414	720.443	721.472
<b>170.0</b>	728.162	727.133	727.647	728.676	729.191
<b>172.5</b>	735.881	735.366	734.852	735.881	735.881
<b>175.0</b>	740.512	740.512	740.512	740.512	740.512
<b>177.5</b>	744.114	744.114	744.114	743.600	744.114
<b>180.0</b>	745.144	745.144	745.144	745.144	745.144

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-V-835-F-DL-ABL-8H-ITL90630 ITL85134.212.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	357.46	N.A.	6.70
0-30	759.62	N.A.	14.20
0-40	1246.01	N.A.	23.40
0-60	2244.11	N.A.	42.10
0-80	2951.63	N.A.	55.30
0-90	3140.47	N.A.	58.90
10-90	3048.37	N.A.	57.10
20-40	888.55	N.A.	16.70
20-50	1401.69	N.A.	26.30
40-70	1406.86	N.A.	26.40
60-80	707.52	N.A.	13.30
70-80	298.75	N.A.	5.60
80-90	188.84	N.A.	3.50
90-110	311.50	N.A.	5.80
90-120	578.98	N.A.	10.90
90-130	908.73	N.A.	17.00
90-150	1625.41	N.A.	30.50
90-180	2193.96	N.A.	41.10
110-180	1882.46	N.A.	35.30
0-180	5334.43	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	120.92
100-110	190.58
110-120	267.48
120-130	329.75
130-140	362.62
140-150	354.06
150-160	298.55
160-170	199.70
170-180	70.30

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

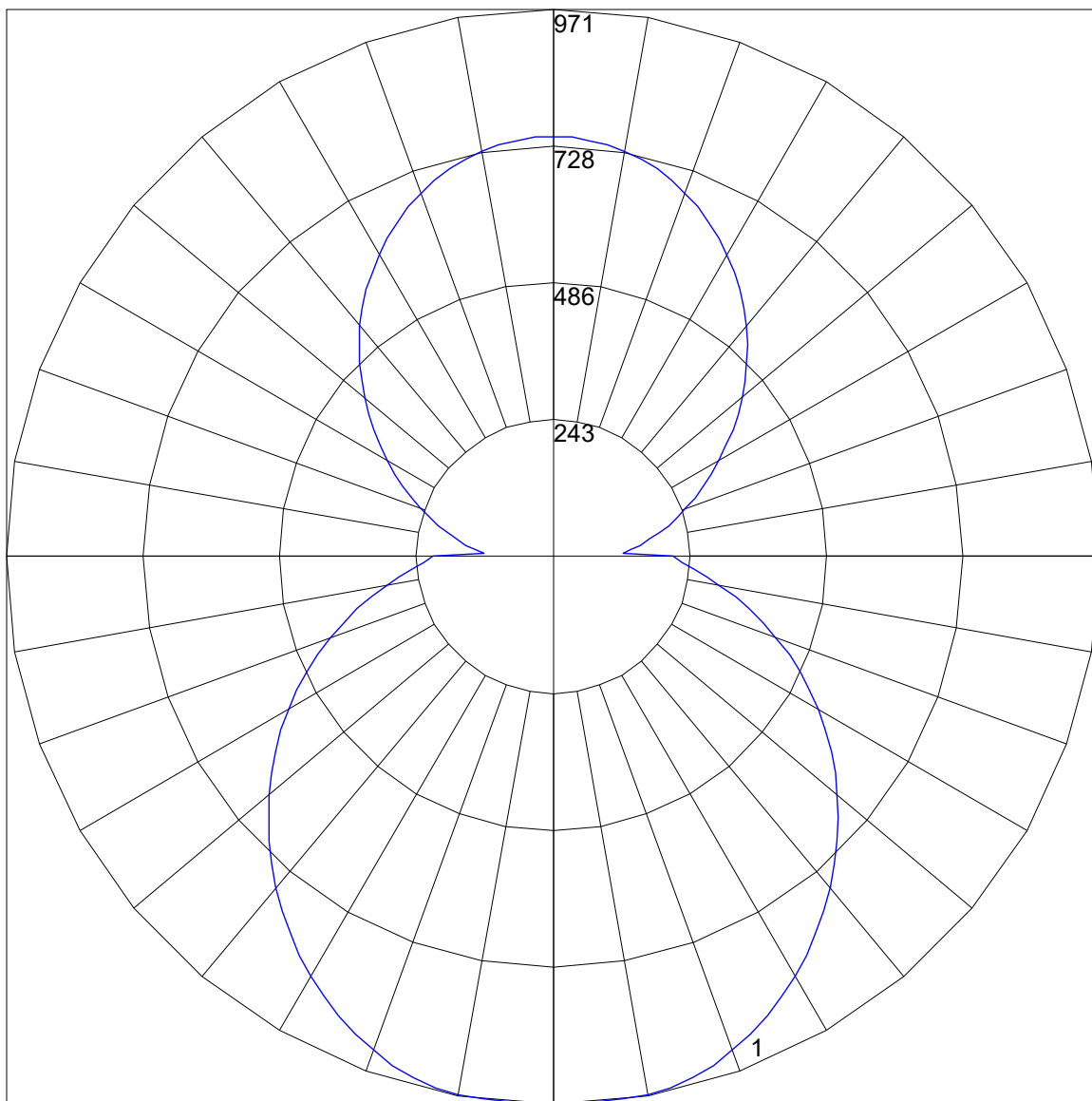
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	98	93	89	85	91	87	83	80	75	72	70	65	62	60	55	53	51	47
2	89	81	74	68	83	75	69	64	65	61	57	56	52	49	47	45	42	38
3	81	71	63	56	75	66	59	53	57	52	47	49	45	41	41	38	35	32
4	74	62	54	47	68	58	51	45	50	44	40	43	39	35	37	33	30	27
5	68	55	47	40	63	52	44	38	45	39	34	39	34	30	33	29	26	23
6	62	49	41	35	58	46	39	33	40	34	30	35	30	26	30	26	23	20
7	58	45	36	30	53	42	34	29	37	30	26	32	27	23	27	23	20	18
8	53	40	32	27	50	38	31	26	33	27	23	29	24	20	25	21	18	16
9	50	37	29	24	46	35	28	23	31	25	20	27	22	18	23	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	17	21	17	15	13

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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.)