

# 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-D-4FT-V-835-ABL-8H-ITL85136.200.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL85136.200 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/14/15  
[ISSUEDATE]06/09/2020  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HP-2-D-4ft-V-835-ABL-8H  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 36.9 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 37.7 WATTS  
[ABSOLUTE]LUMENS]3215  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85136. 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	3215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	36.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
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	16360	15566	14729
55	14902	14081	13234
65	13435	12609	11891
75	12084	11438	10793
85	10800	10277	9929

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	1334	1334	1334	1334	1334
<b>2.5</b>	1333	1332	1332	1332	1332
<b>5.0</b>	1327	1326	1326	1325	1324
<b>7.5</b>	1316	1316	1313	1312	1310
<b>10.0</b>	1304	1298	1297	1295	1292
<b>12.5</b>	1285	1277	1276	1272	1266
<b>15.0</b>	1263	1252	1251	1244	1236
<b>17.5</b>	1237	1223	1222	1212	1201
<b>20.0</b>	1206	1191	1188	1174	1163
<b>22.5</b>	1173	1156	1150	1133	1120
<b>25.0</b>	1133	1117	1109	1088	1075
<b>27.5</b>	1093	1075	1064	1042	1034
<b>30.0</b>	1050	1032	1018	994	985
<b>32.5</b>	1005	989	971	946	936
<b>35.0</b>	958	942	923	896	887
<b>37.5</b>	911	895	875	847	837
<b>40.0</b>	860	844	826	796	784
<b>42.5</b>	810	797	776	745	735
<b>45.0</b>	762	747	725	697	686
<b>47.5</b>	712	698	676	649	638
<b>50.0</b>	661	649	627	601	591
<b>52.5</b>	611	599	578	554	545
<b>55.0</b>	563	551	532	509	500
<b>57.5</b>	513	503	484	463	455
<b>60.0</b>	466	456	438	420	413
<b>62.5</b>	419	410	394	378	371
<b>65.0</b>	374	365	351	337	331
<b>67.5</b>	330	322	310	299	292
<b>70.0</b>	288	281	270	261	255
<b>72.5</b>	246	240	231	224	219
<b>75.0</b>	206	201	195	188	184
<b>77.5</b>	168	164	159	153	150
<b>80.0</b>	131	129	124	120	119
<b>82.5</b>	96	95	91	89	88
<b>85.0</b>	62	61	59	57	57
<b>87.5</b>	28	28	28	27	27
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	477.18	N.A.	14.80
0-30	985.41	N.A.	30.60
0-40	1561.22	N.A.	48.60
0-60	2594.22	N.A.	80.70
0-80	3149.78	N.A.	98.00
0-90	3215.28	N.A.	100.00
10-90	3089.67	N.A.	96.10
20-40	1084.03	N.A.	33.70
20-50	1642.32	N.A.	51.10
40-70	1382.03	N.A.	43.00
60-80	555.56	N.A.	17.30
70-80	206.54	N.A.	6.40
80-90	65.50	N.A.	2.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3215.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	125.61
10-20	351.57
20-30	508.23
30-40	575.81
40-50	558.29
50-60	474.72
60-70	349.03
70-80	206.54
80-90	65.50
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

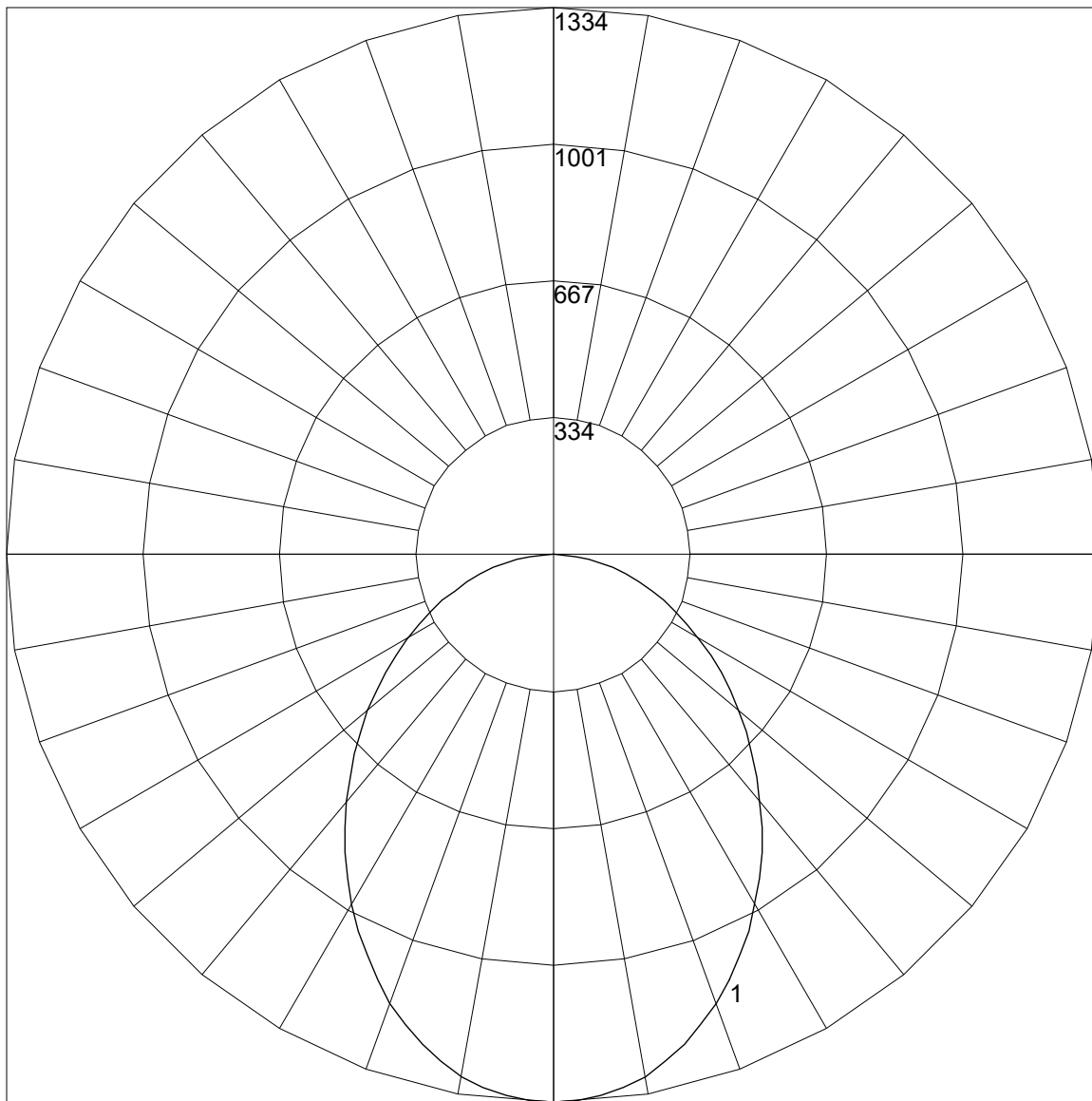
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1334 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)