

# 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-RG-4FT-S-835-F-ITL90350.001.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL90350.001 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]04/03/18  
[ISSUEDATE]05/29/18  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HP-2-D-RG-4ft-S-835-F  
[INPUT\_ELECTRICAL]120.0 VOLTS, 14.4 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 15.9 WATTS  
[ABSOLUTE LUMENS]1182  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL90350. 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	1182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	14.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.12
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	7516	5345	4237
55	6762	4248	3305
65	5986	3221	2515
75	5091	2474	2258
85	4065	1997	1854

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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>
<b>0.0</b>	626.005	626.005	626.005	626.005	626.005
<b>2.5</b>	625.187	624.777	624.368	623.958	623.549
<b>5.0</b>	622.321	621.502	619.455	616.998	615.770
<b>7.5</b>	617.408	615.361	609.629	604.716	602.259
<b>10.0</b>	610.447	605.534	596.937	587.929	584.244
<b>12.5</b>	601.850	592.842	580.150	567.049	561.726
<b>15.0</b>	590.795	578.103	560.907	543.302	535.933
<b>17.5</b>	578.513	561.726	538.799	517.099	507.683
<b>20.0</b>	564.183	543.302	515.052	489.259	478.204
<b>22.5</b>	546.987	522.831	489.668	459.371	447.088
<b>25.0</b>	529.382	501.132	463.056	429.483	416.382
<b>27.5</b>	510.139	478.204	435.624	399.186	385.266
<b>30.0</b>	489.668	454.867	408.193	368.479	354.968
<b>32.5</b>	467.150	431.121	380.353	338.182	325.490
<b>35.0</b>	444.632	406.556	352.921	309.932	295.602
<b>37.5</b>	421.704	381.581	325.900	282.501	268.581
<b>40.0</b>	397.958	356.197	299.287	256.707	243.196
<b>42.5</b>	374.211	331.631	273.494	232.142	219.450
<b>45.0</b>	350.055	306.657	248.928	209.214	197.341
<b>47.5</b>	325.490	282.910	225.182	187.515	177.280
<b>50.0</b>	301.334	258.754	202.254	167.044	158.037
<b>52.5</b>	278.816	235.008	180.964	149.029	140.841
<b>55.0</b>	255.479	211.261	160.493	131.834	124.874
<b>57.5</b>	232.551	189.153	140.841	115.866	109.725
<b>60.0</b>	210.033	167.863	122.417	100.718	95.395
<b>62.5</b>	187.924	146.982	105.631	86.797	81.884
<b>65.0</b>	166.635	127.330	89.663	72.877	70.011
<b>67.5</b>	144.935	108.497	74.924	63.051	62.232
<b>70.0</b>	124.874	90.482	61.413	54.862	54.044
<b>72.5</b>	105.631	73.696	50.768	47.083	45.855
<b>75.0</b>	86.797	57.728	42.170	38.895	38.486
<b>77.5</b>	70.011	42.989	33.573	31.525	31.116
<b>80.0</b>	53.634	30.297	25.794	24.156	24.156
<b>82.5</b>	37.667	21.290	18.424	17.196	17.196
<b>85.0</b>	23.337	13.101	11.464	10.645	10.645
<b>87.5</b>	9.826	5.732	4.913	4.504	4.504
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	215.92	N.A.	18.30
0-30	430.25	N.A.	36.40
0-40	655.27	N.A.	55.40
0-60	1011.43	N.A.	85.60
0-80	1167.27	N.A.	98.70
0-90	1182.13	N.A.	100.00
10-90	1123.74	N.A.	95.10
20-40	439.35	N.A.	37.20
20-50	639.95	N.A.	54.10
40-70	458.29	N.A.	38.80
60-80	155.85	N.A.	13.20
70-80	53.72	N.A.	4.50
80-90	14.85	N.A.	1.30
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	1182.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	58.39
10-20	157.52
20-30	214.33
30-40	225.02
40-50	200.60
50-60	155.56
60-70	102.13
70-80	53.72
80-90	14.85
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

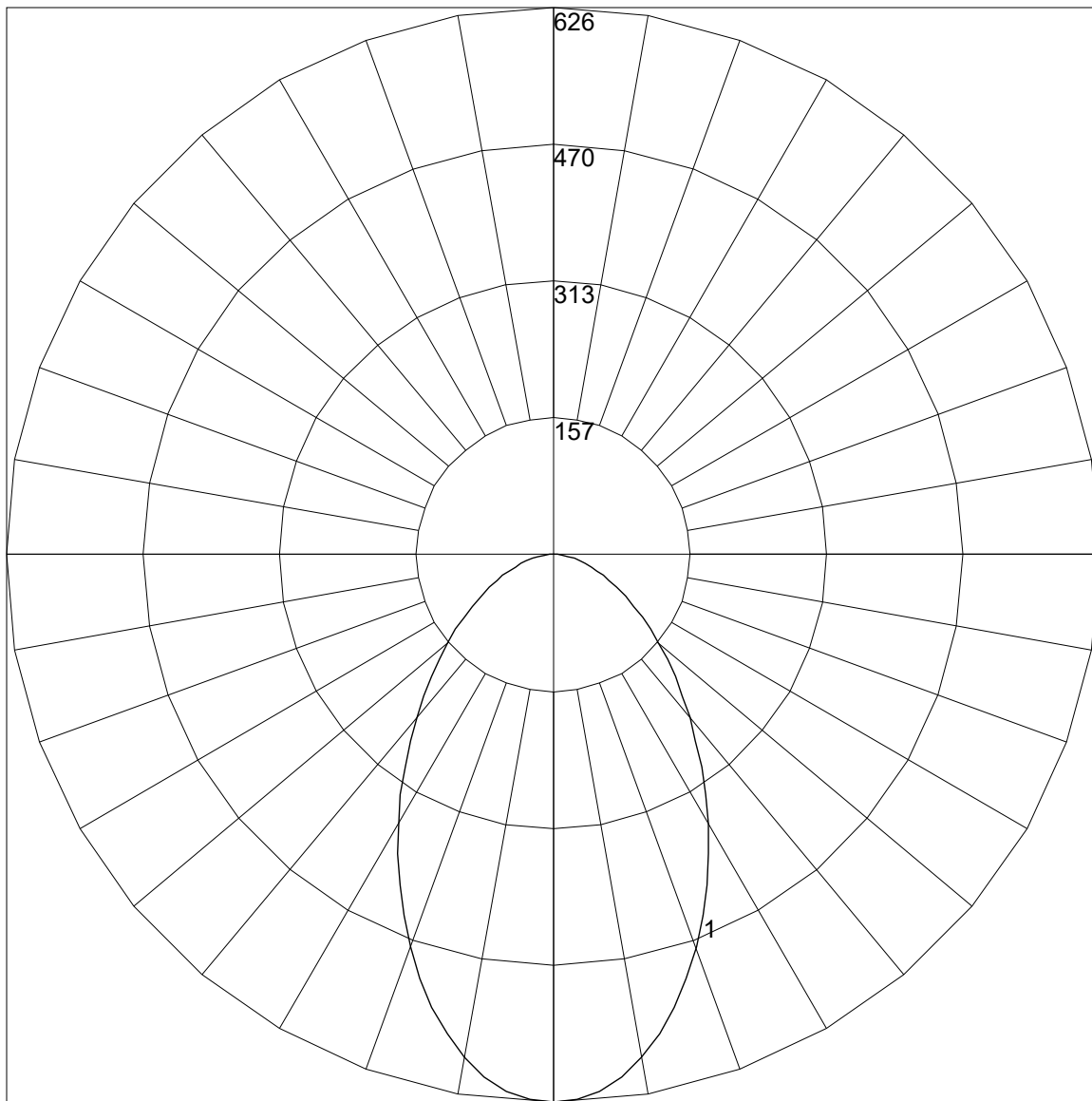
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 626.005 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)