

# 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-X-ID-4FT-B-B-8TW-WSO-F-ITL92314.902.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]10/01/19

[ISSUEDATE]01/08/20

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-X-ID-4ft-B-B-8TW-WSO-F

[OTHER]ies file is based on 3500K; see luminaire tech sheet at

[more]www.finelite.com for lumen adjustment factors for other CCT's & CRI's

[INPUT\_ELECTRICAL]120.0 VOLTS, 37.8 WATTS

[INPUT\_ELECTRICAL]277.0 VOLTS, 39.6 WATTS

[ABSOLUTE LUMENS]4234

[OTHER]see www.finelite.com for source file ITL92314. 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	4234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	34.3
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9073	9112	9044
55	8777	8801	8741
65	8318	8367	8350
75	7738	7845	7898
85	6735	7211	7369

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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	705.158	705.158	705.158	705.158	705.158
2.5	704.650	704.650	704.650	704.650	704.650
5.0	702.616	702.616	702.616	702.616	702.616
7.5	698.041	698.549	698.549	699.057	698.549
10.0	693.465	691.940	693.973	693.973	692.448
12.5	686.856	684.314	687.364	687.364	684.822
15.0	679.230	675.671	679.230	679.738	676.179
17.5	669.570	664.486	669.570	670.587	666.011
20.0	657.368	652.793	657.877	658.385	655.335
22.5	644.658	639.066	645.166	645.675	642.624
25.0	630.931	625.847	631.439	631.948	628.897
27.5	614.662	610.086	615.679	616.187	613.137
30.0	597.885	593.817	598.902	598.902	595.851
32.5	580.091	575.006	581.107	580.599	577.549
35.0	561.280	555.687	561.280	561.280	559.246
37.5	539.418	536.368	541.960	540.943	538.401
40.0	518.573	515.523	520.099	519.082	516.031
42.5	496.204	492.645	497.220	496.204	493.662
45.0	472.309	470.275	474.342	472.309	470.783
47.5	448.414	446.380	449.939	447.397	445.872
50.0	422.993	420.960	425.027	421.976	420.451
52.5	396.556	396.048	399.098	397.065	395.031
55.0	370.628	370.628	371.644	370.119	369.102
57.5	343.682	343.174	344.190	342.665	341.648
60.0	315.720	315.211	317.245	315.720	315.211
62.5	288.266	287.757	289.283	288.266	287.757
65.0	258.778	259.795	260.304	259.795	259.795
67.5	231.324	231.833	232.850	232.850	232.850
70.0	202.854	202.854	204.887	204.379	204.887
72.5	175.400	175.400	176.925	176.417	176.925
75.0	147.438	147.946	149.471	149.980	150.488
77.5	119.984	121.000	122.526	124.051	124.051
80.0	94.563	94.563	96.597	97.614	97.614
82.5	68.635	69.652	71.177	71.685	72.702
85.0	43.214	44.740	46.265	47.282	47.282
87.5	19.319	20.845	22.370	23.895	23.895
90.0	1.017	3.050	4.576	6.609	7.626
92.5	8.134	20.845	42.198	21.861	19.828
95.0	19.319	44.231	108.290	51.857	40.672
97.5	32.538	65.076	200.820	97.614	70.668
100.0	46.265	84.395	304.026	167.265	116.425
102.5	61.009	98.631	382.829	281.148	189.127
105.0	74.736	113.883	420.960	461.124	323.346
107.5	88.971	128.118	424.518	668.045	529.250
110.0	104.223	142.862	414.350	807.856	753.965
112.5	119.475	157.606	404.691	854.121	885.642
115.0	134.219	173.366	400.115	856.155	935.466
117.5	148.963	188.618	400.623	835.818	948.684
120.0	161.673	202.345	401.132	804.806	934.958
122.5	173.875	214.039	402.149	771.759	907.504
125.0	184.043	224.207	403.674	740.238	872.932
127.5	194.211	233.866	403.674	708.209	836.327
130.0	204.379	242.509	404.182	677.704	798.196
132.5	213.022	249.627	402.657	648.217	759.558

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-X-ID-4FT-B-B-8TW-WSO-F-ITL92314.902.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	222.173	256.236	399.607	619.238	718.377
<b>137.5</b>	231.324	263.354	396.048	591.784	681.772
<b>140.0</b>	239.967	269.963	389.947	562.805	643.641
<b>142.5</b>	248.610	276.064	383.846	533.317	603.477
<b>145.0</b>	257.253	282.165	376.728	505.355	563.822
<b>147.5</b>	265.388	287.249	370.119	477.393	527.725
<b>150.0</b>	273.014	292.333	364.018	451.972	492.645
<b>152.5</b>	280.131	296.909	358.426	430.111	462.649
<b>155.0</b>	287.757	301.484	352.325	410.283	435.195
<b>157.5</b>	293.350	305.043	347.241	392.489	411.808
<b>160.0</b>	299.451	308.602	342.157	376.728	390.964
<b>162.5</b>	304.535	311.653	337.581	363.510	374.186
<b>165.0</b>	309.619	314.703	333.514	352.325	359.443
<b>167.5</b>	313.178	316.737	329.955	342.665	347.749
<b>170.0</b>	316.228	318.770	326.905	335.039	338.090
<b>172.5</b>	319.279	320.804	325.379	329.955	331.480
<b>175.0</b>	320.804	321.312	323.346	325.379	326.396
<b>177.5</b>	321.821	321.821	322.329	322.837	323.346
<b>180.0</b>	322.329	322.329	322.329	322.329	322.329

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	258.08	N.A.	6.10
0-30	548.18	N.A.	12.90
0-40	898.32	N.A.	21.20
0-60	1593.34	N.A.	37.60
0-80	2008.52	N.A.	47.40
0-90	2060.03	N.A.	48.70
10-90	1993.27	N.A.	47.10
20-40	640.23	N.A.	15.10
20-50	1004.24	N.A.	23.70
40-70	952.51	N.A.	22.50
60-80	415.19	N.A.	9.80
70-80	157.69	N.A.	3.70
80-90	51.51	N.A.	1.20
90-110	391.24	N.A.	9.20
90-120	870.75	N.A.	20.60
90-130	1295.91	N.A.	30.60
90-150	1882.44	N.A.	44.50
90-180	2174.05	N.A.	51.30
110-180	1782.81	N.A.	42.10
0-180	4234.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.76
10-20	191.32
20-30	290.10
30-40	350.14
40-50	364.01
50-60	331.01
60-70	257.49
70-80	157.69
80-90	51.51
90-100	73.18
100-110	318.06
110-120	479.51
120-130	425.17
130-140	338.52
140-150	248.01
150-160	165.64
160-170	94.97
170-180	31.00

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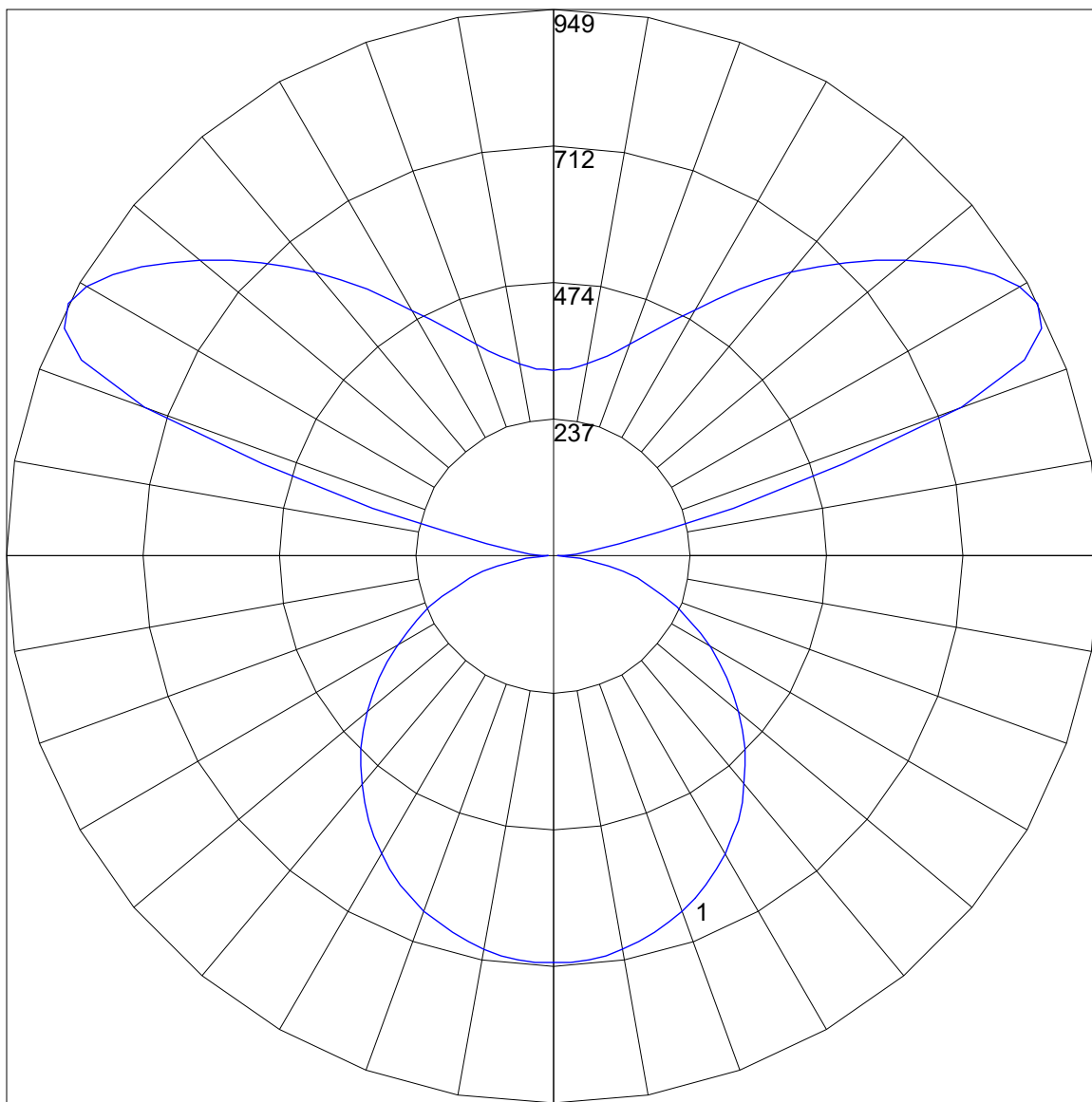
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	93	89	85	89	85	82	79	72	69	67	59	58	56	48	47	46	40
2	88	81	74	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	53	55	50	46	46	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	41	37	33	33	30	28	24
5	67	55	47	41	62	51	44	39	44	38	34	36	32	29	30	26	24	21
6	62	50	41	36	57	46	39	33	39	33	29	33	28	25	27	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	30	25	22	24	21	18	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	22	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 948.684 Located At Horizontal Angle = 90, Vertical Angle = 117.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)