

# 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-D-4FT-B-8TW-F-ITL92552.902.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL92552.902 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]12/13/19  
[ISSUEDATE]01/07/20  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HP-X D-4ft-B-8TW-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, 18.3 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 19.1 WATTS  
[ABSOLUTE LUMENS]2064  
[OTHER]see www.finelite.com for source file ITL92552. 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	2064
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	18.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	9095	9104	9045
55	8811	8811	8762
65	8386	8419	8386
75	7832	7886	7940
85	7058	7298	7539

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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	705.496	705.496	705.496	705.496	705.496
2.5	704.981	704.467	704.467	704.467	704.981
5.0	702.408	701.894	701.894	701.894	701.894
7.5	698.806	697.777	698.292	697.777	698.292
10.0	693.660	692.117	693.146	693.660	692.631
12.5	687.485	684.398	686.456	687.485	686.456
15.0	679.767	675.135	678.223	679.252	677.708
17.5	670.504	664.844	668.960	668.960	667.931
20.0	658.669	651.979	657.125	657.640	656.096
22.5	645.289	639.629	644.775	644.775	643.231
25.0	631.910	625.221	630.367	630.367	629.337
27.5	616.473	610.298	615.958	614.929	614.414
30.0	599.491	592.802	598.977	597.948	596.918
32.5	580.452	575.821	580.452	580.452	578.393
35.0	561.927	556.266	561.927	560.898	559.354
37.5	541.343	536.712	541.858	539.800	538.770
40.0	520.760	515.614	520.245	518.187	516.643
42.5	498.633	494.002	498.118	496.574	495.031
45.0	473.418	470.845	473.933	472.904	470.845
47.5	449.747	447.174	450.262	448.203	447.174
50.0	425.047	422.989	425.562	422.989	422.474
52.5	398.803	397.260	399.318	397.260	396.745
55.0	372.045	371.016	372.045	371.530	369.987
57.5	344.772	343.743	345.286	344.772	343.743
60.0	316.984	315.955	318.013	316.984	316.984
62.5	289.711	288.168	290.740	289.197	290.226
65.0	260.895	260.895	261.924	261.924	260.895
67.5	232.592	233.107	233.622	234.136	234.136
70.0	204.805	204.290	205.834	205.319	206.863
72.5	175.988	175.988	178.046	178.046	179.076
75.0	149.230	148.200	150.259	150.773	151.288
77.5	121.442	121.442	123.500	124.530	125.559
80.0	94.684	95.713	96.742	98.286	98.800
82.5	69.984	69.984	71.527	73.071	74.100
85.0	45.283	45.798	46.827	48.371	48.371
87.5	20.583	21.613	23.671	24.700	25.215
90.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	258.01	N.A.	12.50
0-30	548.02	N.A.	26.60
0-40	898.25	N.A.	43.50
0-60	1594.84	N.A.	77.30
0-80	2012.3	N.A.	97.50
0-90	2064.08	N.A.	100.00
10-90	1997.35	N.A.	96.80
20-40	640.24	N.A.	31.00
20-50	1004.85	N.A.	48.70
40-70	955.36	N.A.	46.30
60-80	417.47	N.A.	20.20
70-80	158.69	N.A.	7.70
80-90	51.77	N.A.	2.50
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	2064.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.72
10-20	191.28
20-30	290.02
30-40	350.22
40-50	364.61
50-60	331.98
60-70	258.77
70-80	158.69
80-90	51.77
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

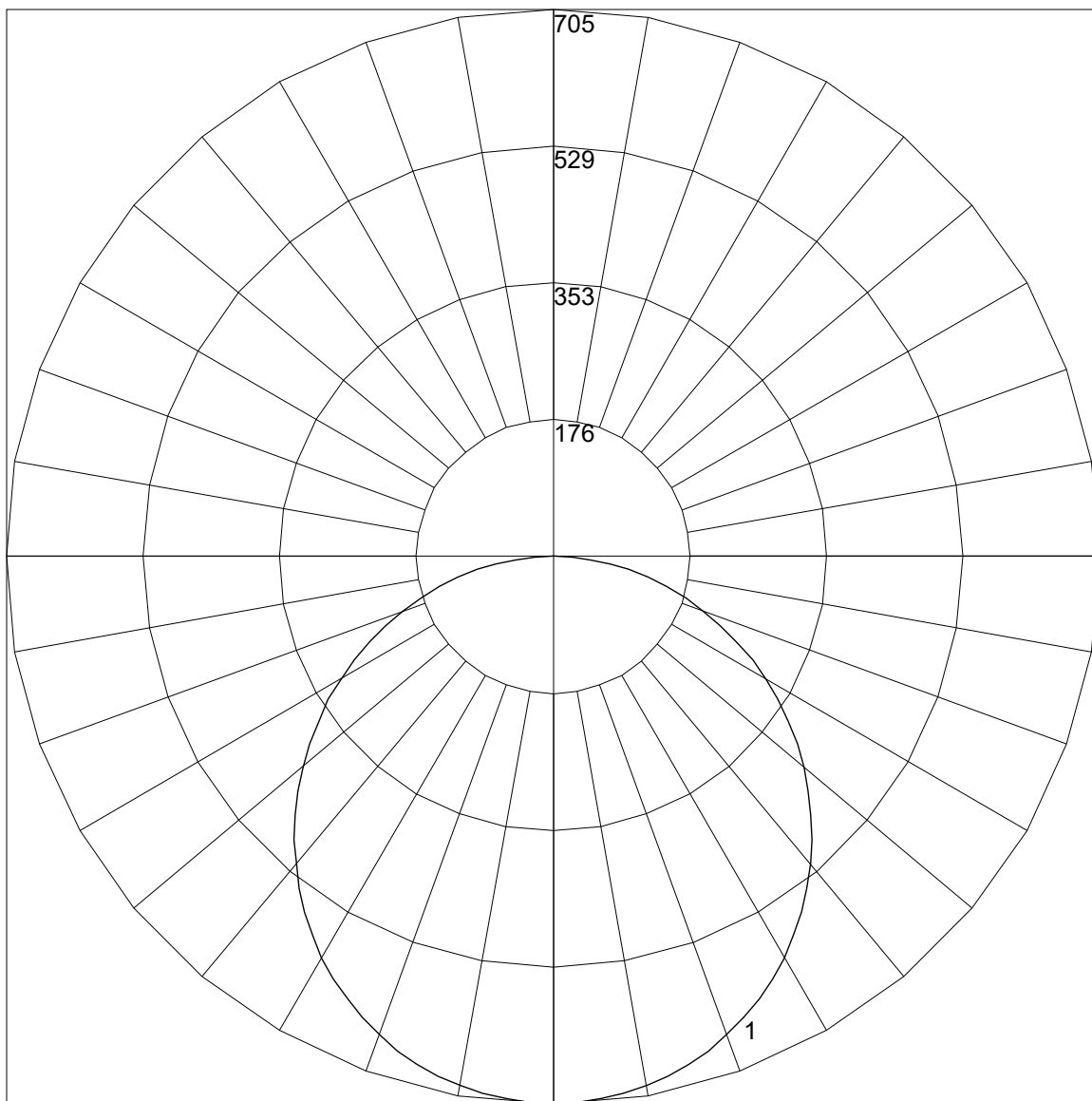
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 705.496 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)