

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-4-WW-D-FO-4FT-V-8TW-ITL85131.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85131.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/11/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-WW-D-FO-4ft-V-8TW
[LUMINAIRE]EXTRUDED WHITE PAINTED METAL HOUSING WITH WHITE PAINTED
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 21.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 23.4 WATTS
[OTHER]see www.finelite.com for source file ITL85131. 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
[ABSOLUTE]LUMENS]2000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.27 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12901	11413	5770
55	12755	11301	5227
65	13083	10899	4627
75	11775	11123	4027
85	7403	7631	3531

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	697	697	697	697	697	697	697	697	697
2.5	734	731	721	706	699	677	672	664	656
5.0	770	764	745	719	696	659	639	624	613
7.5	802	794	768	729	691	639	606	581	569
10.0	834	822	787	736	684	617	571	539	523
12.5	863	850	805	741	675	594	536	496	479
15.0	894	877	821	744	664	570	500	454	435
17.5	921	901	835	743	651	545	465	413	391
20.0	947	924	848	741	637	518	430	373	352
22.5	970	943	859	736	620	491	397	336	315
25.0	991	960	867	729	601	463	363	301	280
27.5	1008	974	873	721	582	436	331	269	249
30.0	1021	984	876	711	561	409	301	240	221
32.5	1026	990	876	699	537	381	274	213	195
35.0	1020	989	873	686	514	355	248	189	172
37.5	1008	977	867	671	490	328	223	167	151
40.0	988	958	857	654	464	302	198	146	132
42.5	960	933	839	635	437	278	177	128	114
45.0	919	898	813	614	411	254	156	111	98
47.5	874	856	783	591	383	230	137	95	84
50.0	827	808	747	567	356	208	119	80	70
52.5	782	760	703	541	329	186	102	67	58
55.0	737	713	653	511	302	165	86	54	46
57.5	698	671	603	482	275	144	72	43	35
60.0	652	626	555	449	248	125	59	32	26
62.5	609	581	509	412	222	107	46	23	17
65.0	557	534	464	372	197	89	34	14	9
67.5	504	486	421	331	174	72	23	7	3
70.0	447	433	379	289	149	57	13	3	3
72.5	382	376	336	251	126	42	5	3	2
75.0	307	311	290	213	105	28	3	2	2
77.5	226	238	241	182	84	16	3	2	2
80.0	151	162	185	150	65	5	2	2	2
82.5	99	102	122	116	48	2	2	1	1
85.0	65	64	67	79	31	2	1	1	1
87.5	31	31	30	34	16	1	1	1	1
90.0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-4-WW-D-FO-4FT-V-8TW-ITL85131.900.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	252.44	N.A.	12.60
0-30	536.25	N.A.	26.80
0-40	883.93	N.A.	44.20
0-60	1568.46	N.A.	78.40
0-80	1960.14	N.A.	98.00
0-90	2000.09	N.A.	100.00
10-90	1934.43	N.A.	96.70
20-40	631.49	N.A.	31.60
20-50	993.92	N.A.	49.70
40-70	930.68	N.A.	46.50
60-80	391.68	N.A.	19.60
70-80	145.53	N.A.	7.30
80-90	39.95	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	2000.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.66
10-20	186.78
20-30	283.81
30-40	347.68
40-50	362.43
50-60	322.10
60-70	246.15
70-80	145.53
80-90	39.95
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

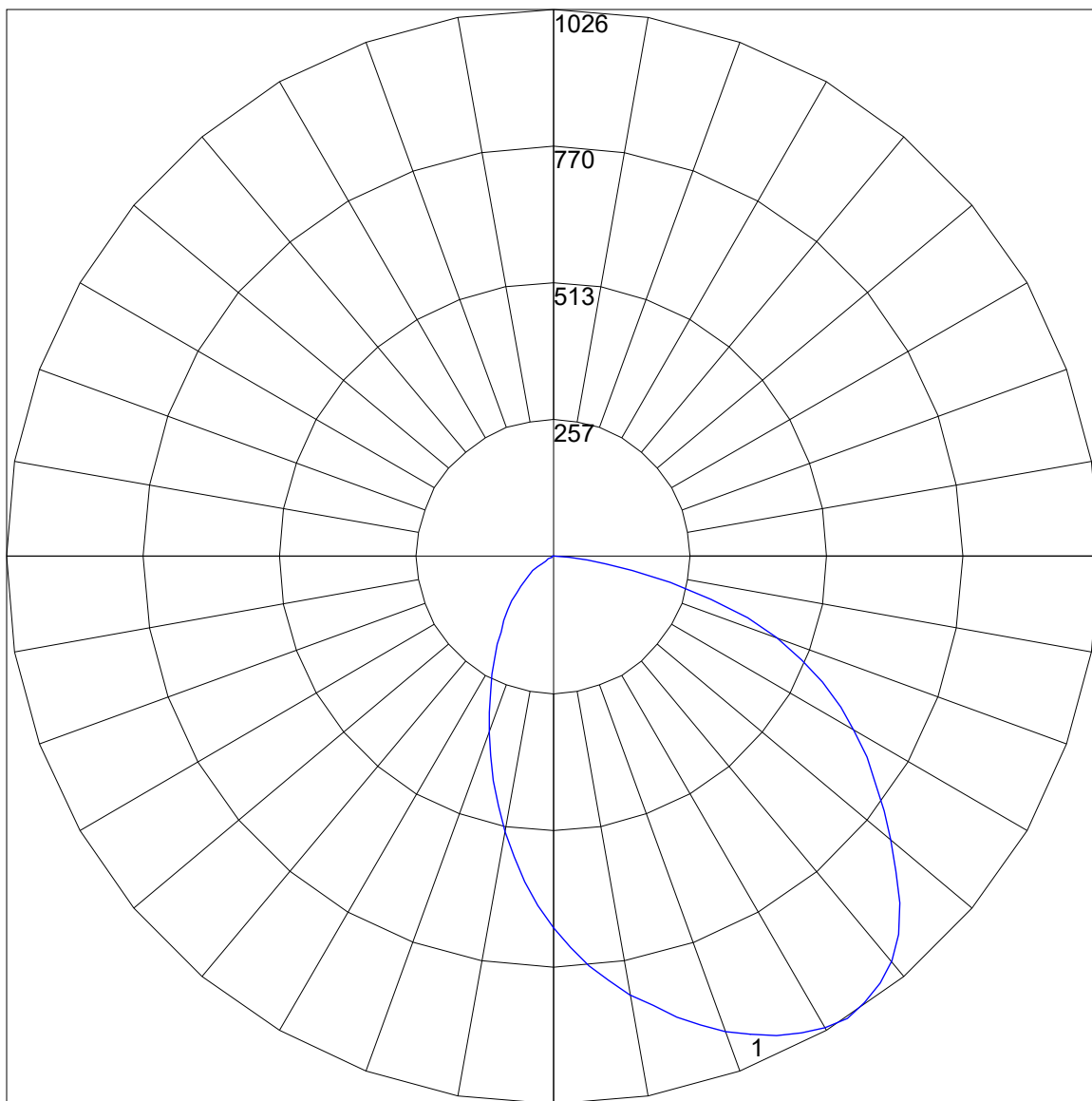
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1026 Located At Horizontal Angle = 0, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)