

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-D-RG-4FT-V-8TW-RG-WCB-ITL90672.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90672.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/30/18

[ISSUEDATE]02/12/19

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-D-RG-4ft-V-8TW-RG-WCB

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI's

[_INPUT_ELECTRICAL]120.0 VOLTS, 40.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 41.5 WATTS

[_ABSOLUTE]LUMENS]3001

[OTHER]see www.finelite.com for source file ITL90672. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.30 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6180	7954	10925
55	5151	5896	9480
65	4422	4886	7497
75	3817	4058	5158
85	3063	3063	3472

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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	1636	1636	1636	1636	1636
2.5	1626	1627	1630	1634	1634
5.0	1597	1601	1611	1623	1627
7.5	1555	1563	1583	1606	1615
10.0	1504	1514	1545	1583	1597
12.5	1445	1456	1500	1549	1570
15.0	1385	1397	1449	1505	1533
17.5	1320	1331	1390	1458	1493
20.0	1249	1262	1327	1404	1447
22.5	1175	1192	1261	1348	1399
25.0	1102	1121	1193	1286	1347
27.5	1027	1048	1123	1223	1291
30.0	953	971	1053	1159	1236
32.5	875	899	981	1094	1179
35.0	796	822	911	1028	1116
37.5	720	747	839	961	1055
40.0	644	673	771	897	993
42.5	565	600	701	832	931
45.0	491	526	632	765	868
47.5	440	458	567	701	803
50.0	402	410	502	638	738
52.5	368	373	438	574	674
55.0	332	339	380	514	611
57.5	301	306	335	454	546
60.0	270	273	299	397	484
62.5	240	242	264	342	420
65.0	210	214	232	290	356
67.5	184	187	200	240	297
70.0	159	160	170	199	239
72.5	135	136	143	163	180
75.0	111	112	118	131	150
77.5	89	90	93	103	119
80.0	69	69	70	77	87
82.5	49	48	50	53	58
85.0	30	30	30	31	34
87.5	12	12	11	12	12
90.0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-D-RG-4FT-V-8TW-RG-WCB-ITL90672.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.34	N.A.	18.60
0-30	1113.33	N.A.	37.10
0-40	1693.76	N.A.	56.40
0-60	2580.91	N.A.	86.00
0-80	2965.68	N.A.	98.80
0-90	3001.14	N.A.	100.00
10-90	2849.3	N.A.	94.90
20-40	1134.42	N.A.	37.80
20-50	1638.46	N.A.	54.60
40-70	1140.62	N.A.	38.00
60-80	384.77	N.A.	12.80
70-80	131.30	N.A.	4.40
80-90	35.46	N.A.	1.20
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	3001.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.83
10-20	407.50
20-30	553.99
30-40	580.43
40-50	504.04
50-60	383.11
60-70	253.47
70-80	131.30
80-90	35.46
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

IES INDOOR REPORT

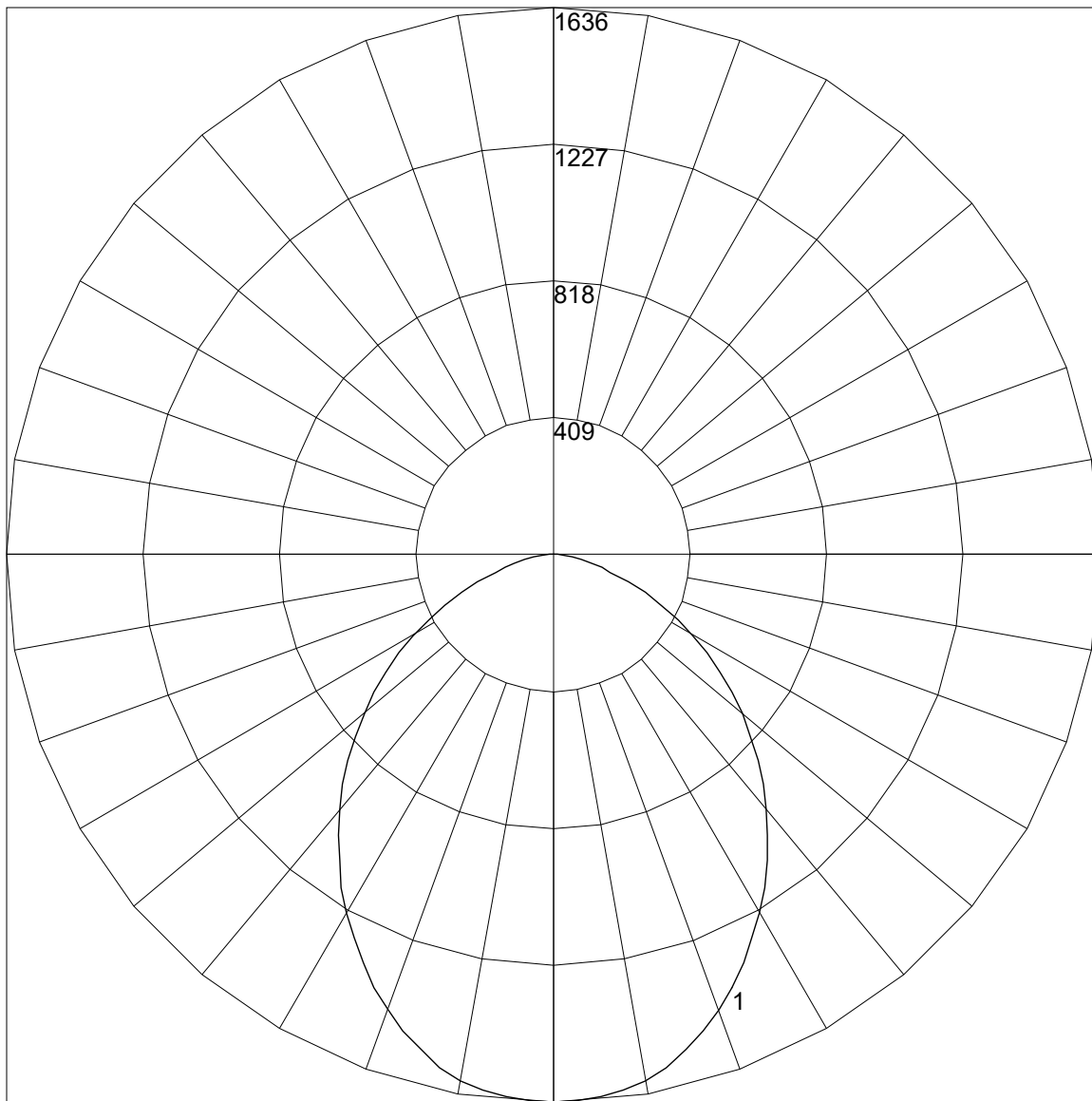
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	46	42	40
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

POLAR GRAPH



Maximum Candela = 1636 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)