

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-R-4FT-V-8TW-ITL85128.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85128.900 Family Correlation File
[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/07/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-R-4ft-V-8TW
[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, 40.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.5 WATTS
[OTHER]see www.finelite.com for source file ITL85128. 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
[_ABSOLUTELUMENS]3726

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3726
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	40.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10173	10020	9820
55	9435	9290	9086
65	8688	8530	8372
75	7656	7656	7592
85	6687	6687	6782

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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	1442	1442	1442	1442	1442
2.5	1440	1440	1440	1440	1440
5.0	1434	1434	1433	1433	1434
7.5	1424	1423	1423	1422	1423
10.0	1410	1407	1408	1408	1406
12.5	1392	1385	1389	1388	1385
15.0	1369	1360	1365	1364	1359
17.5	1344	1332	1339	1336	1330
20.0	1312	1300	1307	1302	1295
22.5	1280	1264	1271	1265	1259
25.0	1241	1226	1232	1225	1219
27.5	1201	1187	1191	1182	1177
30.0	1158	1144	1147	1137	1132
32.5	1111	1100	1100	1091	1085
35.0	1064	1053	1055	1043	1037
37.5	1017	1005	1005	995	988
40.0	966	955	955	944	937
42.5	915	905	903	893	886
45.0	864	853	851	840	834
47.5	811	801	799	789	782
50.0	756	748	746	737	730
52.5	704	697	693	684	678
55.0	650	644	640	631	626
57.5	597	591	587	579	574
60.0	543	538	535	529	523
62.5	493	487	483	478	473
65.0	441	436	433	428	425
67.5	389	384	382	378	376
70.0	336	334	333	329	328
72.5	286	285	285	282	282
75.0	238	237	238	237	236
77.5	194	192	193	194	193
80.0	150	148	150	152	151
82.5	109	108	110	111	110
85.0	70	69	70	72	71
87.5	33	32	33	34	33
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	520.20	N.A.	14.00
0-30	1085.74	N.A.	29.10
0-40	1742.51	N.A.	46.80
0-60	2968.11	N.A.	79.70
0-80	3648.06	N.A.	97.90
0-90	3726.44	N.A.	100.00
10-90	3590.42	N.A.	96.30
20-40	1222.31	N.A.	32.80
20-50	1876.93	N.A.	50.40
40-70	1653.57	N.A.	44.40
60-80	679.96	N.A.	18.20
70-80	251.99	N.A.	6.80
80-90	78.38	N.A.	2.10
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	3726.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.02
10-20	384.18
20-30	565.54
30-40	656.77
40-50	654.62
50-60	570.98
60-70	427.97
70-80	251.99
80-90	78.38
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

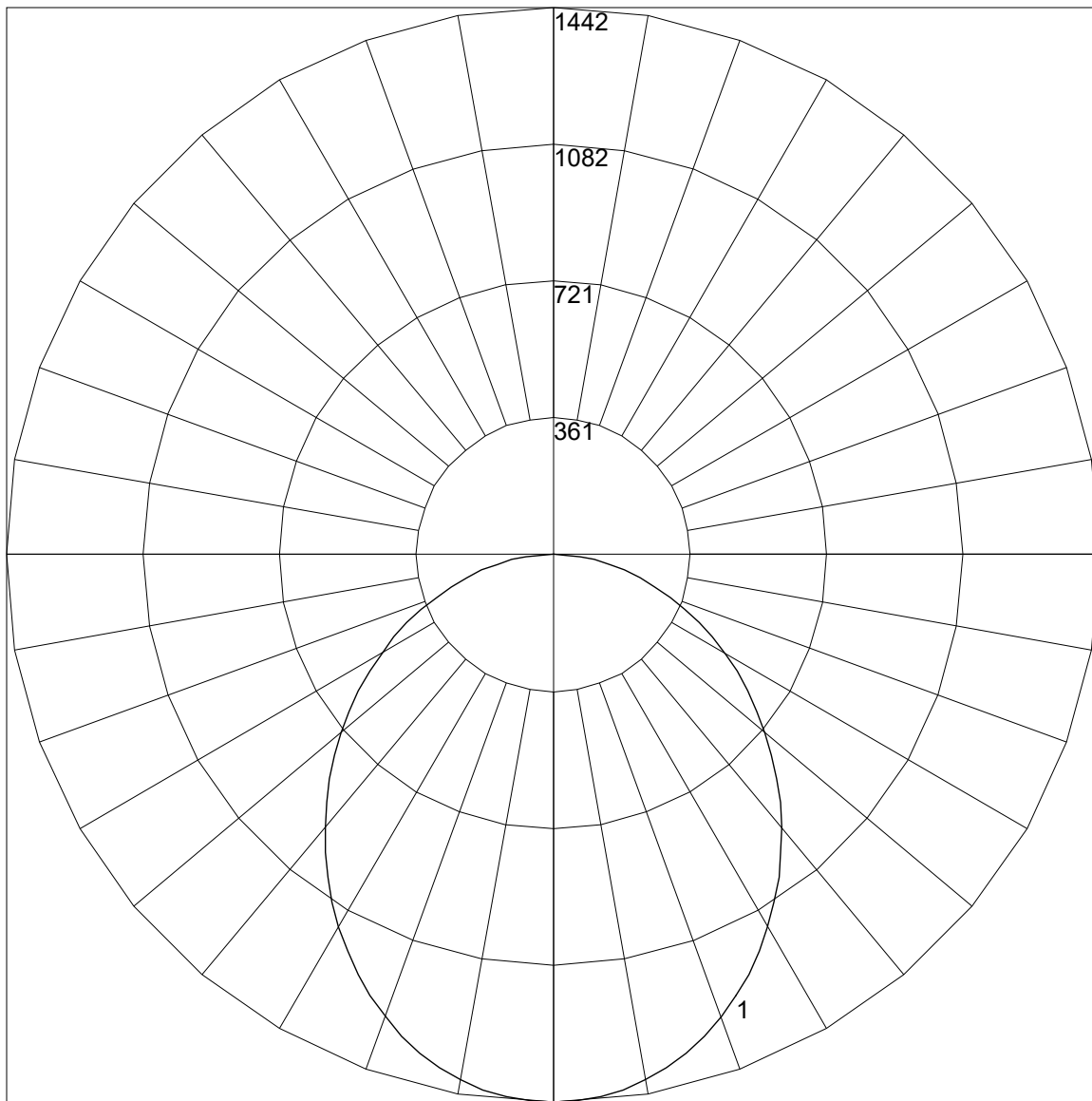
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1442 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)