

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-2-ID-RG-4FT-V-V-8TW-TG-F-ITL90352.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]05/17/18

[ISSUEDATE]05/25/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-V-V-8TW-TG-F

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 80.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 82.3 WATTS

[OTHER]see www.finelite.com for source file ITL90352. 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]7232

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7232
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	80.5
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18722	13161	10370
55	16702	10349	8020
65	14477	7831	6215
75	12084	6042	5514
85	8361	4529	4181

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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	1585	1585	1585	1585	1585
2.5	1582	1582	1580	1578	1577
5.0	1573	1571	1564	1558	1556
7.5	1560	1554	1539	1525	1520
10.0	1542	1529	1505	1481	1469
12.5	1519	1498	1461	1428	1410
15.0	1492	1459	1411	1364	1342
17.5	1459	1416	1353	1295	1269
20.0	1423	1367	1291	1221	1193
22.5	1382	1315	1225	1147	1113
25.0	1334	1260	1157	1068	1034
27.5	1285	1200	1088	992	955
30.0	1230	1139	1016	916	877
32.5	1176	1078	945	841	802
35.0	1118	1013	875	770	730
37.5	1058	950	807	700	661
40.0	998	885	740	635	597
42.5	937	820	674	574	537
45.0	872	758	613	516	483
47.5	811	696	554	462	432
50.0	748	634	497	412	385
52.5	691	575	443	366	343
55.0	631	517	391	324	303
57.5	571	460	344	285	266
60.0	514	407	299	248	231
62.5	458	356	258	212	197
65.0	403	307	218	178	173
67.5	351	262	182	157	153
70.0	300	218	148	136	133
72.5	252	176	124	116	113
75.0	206	138	103	96	94
77.5	162	102	82	77	75
80.0	122	73	62	59	58
82.5	84	51	44	42	41
85.0	48	30	26	25	24
87.5	15	11	10	9	8
90.0	0	0	0	0	0
92.5	30	29	28	26	25
95.0	69	69	69	66	64
97.5	110	110	108	108	106
100.0	154	154	153	152	151
102.5	201	200	200	199	198
105.0	251	250	250	249	247
107.5	304	303	303	301	299
110.0	359	357	358	355	354
112.5	417	415	416	412	411
115.0	478	474	476	471	470
117.5	539	536	536	533	531
120.0	602	598	599	594	592
122.5	667	661	663	658	656
125.0	734	726	728	723	721
127.5	801	792	794	790	784
130.0	868	858	861	857	850
132.5	933	924	928	923	917

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CANDELA TABULATION - (Cont.)

135.0	1000	990	994	990	982
137.5	1069	1056	1061	1057	1048
140.0	1135	1121	1127	1122	1113
142.5	1201	1184	1192	1186	1176
145.0	1265	1245	1253	1248	1238
147.5	1323	1304	1313	1308	1298
150.0	1380	1361	1370	1364	1355
152.5	1433	1413	1424	1417	1409
155.0	1482	1463	1476	1467	1460
157.5	1528	1509	1521	1513	1507
160.0	1566	1551	1562	1555	1550
162.5	1603	1589	1598	1592	1587
165.0	1635	1623	1630	1626	1621
167.5	1661	1653	1657	1655	1650
170.0	1683	1678	1680	1678	1676
172.5	1698	1698	1698	1696	1696
175.0	1712	1711	1711	1710	1709
177.5	1719	1719	1719	1719	1719
180.0	1722	1722	1722	1722	1722

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.66	N.A.	7.50
0-30	1079.84	N.A.	14.90
0-40	1639.69	N.A.	22.70
0-60	2516.13	N.A.	34.80
0-80	2894.15	N.A.	40.00
0-90	2928.15	N.A.	40.50
10-90	2780.7	N.A.	38.50
20-40	1096.04	N.A.	15.20
20-50	1591.43	N.A.	22.00
40-70	1124.88	N.A.	15.60
60-80	378.02	N.A.	5.20
70-80	129.59	N.A.	1.80
80-90	34.00	N.A.	0.50
90-110	341.49	N.A.	4.70
90-120	811.42	N.A.	11.20
90-130	1461.18	N.A.	20.20
90-150	3006.93	N.A.	41.60
90-180	4303.57	N.A.	59.50
110-180	3962.08	N.A.	54.80
0-180	7231.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.45
10-20	396.21
20-30	536.19
30-40	559.85
40-50	495.40
50-60	381.04
60-70	248.44
70-80	129.59
80-90	34.00
90-100	76.22
100-110	265.27
110-120	469.92
120-130	649.77
130-140	764.96
140-150	780.78
150-160	675.99
160-170	458.37
170-180	162.28

IES INDOOR REPORT

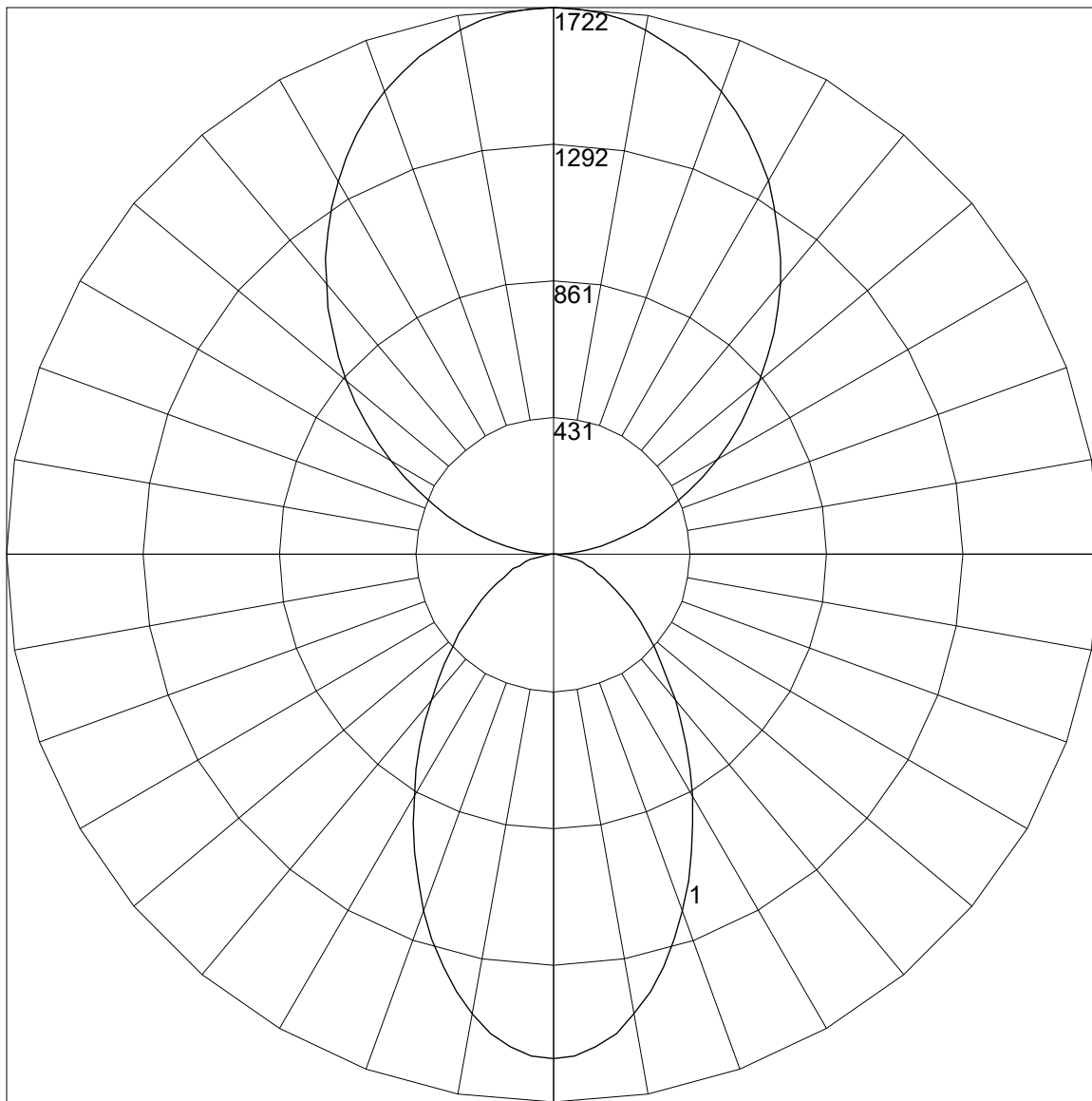
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	81	72	65	59	73	66	60	55	54	50	46	44	41	38	34	32	31	26
4	74	64	56	50	67	58	52	47	49	44	40	39	36	33	31	29	27	23
5	68	57	49	44	62	52	46	41	44	39	35	36	32	29	28	26	24	20
6	63	51	44	38	57	47	40	36	40	34	31	32	29	26	26	23	21	18
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	35	30	49	39	32	28	33	28	24	27	23	21	22	19	17	15
9	50	39	31	27	46	36	29	25	30	25	22	25	21	19	20	18	16	13
10	47	35	29	24	43	33	27	23	28	23	20	23	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 1722 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)