

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-S-V-835-TG-F-ITL90352.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.015 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/04/18

[ISSUEDATE]05/17/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-S-V-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 50.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.2 WATTS

[_ABSOLUTE]LUMENS]4690

[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4690
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	50.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.10
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	1585.000	1585.000	1585.000	1585.000	1585.000
2.5	1582.000	1582.000	1580.000	1578.000	1577.000
5.0	1573.000	1571.000	1564.000	1558.000	1556.000
7.5	1560.000	1554.000	1539.000	1525.000	1520.000
10.0	1542.000	1529.000	1505.000	1481.000	1469.000
12.5	1519.000	1498.000	1461.000	1428.000	1410.000
15.0	1492.000	1459.000	1411.000	1364.000	1342.000
17.5	1459.000	1416.000	1353.000	1295.000	1269.000
20.0	1423.000	1367.000	1291.000	1221.000	1193.000
22.5	1382.000	1315.000	1225.000	1147.000	1113.000
25.0	1334.000	1260.000	1157.000	1068.000	1034.000
27.5	1285.000	1200.000	1088.000	992.000	955.000
30.0	1230.000	1139.000	1016.000	916.000	877.000
32.5	1176.000	1078.000	945.000	841.000	802.000
35.0	1118.000	1013.000	875.000	770.000	730.000
37.5	1058.000	950.000	807.000	700.000	661.000
40.0	998.000	885.000	740.000	635.000	597.000
42.5	937.000	820.000	674.000	574.000	537.000
45.0	872.000	758.000	613.000	516.000	483.000
47.5	811.000	696.000	554.000	462.000	432.000
50.0	748.000	634.000	497.000	412.000	385.000
52.5	691.000	575.000	443.000	366.000	343.000
55.0	631.000	517.000	391.000	324.000	303.000
57.5	571.000	460.000	344.000	285.000	266.000
60.0	514.000	407.000	299.000	248.000	231.000
62.5	458.000	356.000	258.000	212.000	197.000
65.0	403.000	307.000	218.000	178.000	173.000
67.5	351.000	262.000	182.000	157.000	153.000
70.0	300.000	218.000	148.000	136.000	133.000
72.5	252.000	176.000	124.000	116.000	113.000
75.0	206.000	138.000	103.000	96.000	94.000
77.5	162.000	102.000	82.000	77.000	75.000
80.0	122.000	73.000	62.000	59.000	58.000
82.5	84.000	51.000	44.000	42.000	41.000
85.0	48.000	30.000	26.000	25.000	24.000
87.5	15.000	11.000	10.000	9.000	8.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.279	11.870	11.460	10.642	10.232
95.0	28.241	28.241	28.241	27.013	26.195
97.5	45.022	45.022	44.203	44.203	43.385
100.0	63.031	63.031	62.622	62.212	61.803
102.5	82.268	81.858	81.858	81.449	81.040
105.0	102.732	102.323	102.323	101.914	101.095
107.5	124.425	124.016	124.016	123.197	122.378
110.0	146.936	146.117	146.527	145.299	144.889
112.5	170.675	169.856	170.266	168.628	168.219
115.0	195.642	194.004	194.823	192.777	192.367
117.5	220.608	219.381	219.381	218.153	217.334
120.0	246.394	244.757	245.166	243.119	242.301
122.5	272.998	270.542	271.361	269.314	268.496
125.0	300.420	297.146	297.965	295.918	295.099
127.5	327.843	324.159	324.978	323.341	320.885
130.0	355.265	351.173	352.401	350.763	347.898
132.5	381.870	378.186	379.823	377.777	375.321

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-S-V-835-TG-F-ITL90352.015.IES****CANDELA TABULATION - (Cont.)**

135.0	409.292	405.199	406.836	405.199	401.925
137.5	437.533	432.212	434.259	432.622	428.938
140.0	464.546	458.816	461.272	459.226	455.542
142.5	491.560	484.602	487.876	485.420	481.327
145.0	517.754	509.569	512.843	510.796	506.704
147.5	541.493	533.717	537.400	535.354	531.261
150.0	564.823	557.046	560.730	558.274	554.591
152.5	586.515	578.330	582.832	579.967	576.692
155.0	606.571	598.794	604.115	600.431	597.566
157.5	625.398	617.622	622.533	619.259	616.803
160.0	640.951	634.812	639.314	636.449	634.403
162.5	656.095	650.365	654.049	651.593	649.546
165.0	669.192	664.281	667.146	665.509	663.462
167.5	679.834	676.560	678.197	677.378	675.332
170.0	688.838	686.792	687.611	686.792	685.973
172.5	694.978	694.978	694.978	694.159	694.159
175.0	700.708	700.299	700.299	699.889	699.480
177.5	703.573	703.573	703.573	703.573	703.573
180.0	704.801	704.801	704.801	704.801	704.801

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.66	N.A.	11.60
0-30	1079.84	N.A.	23.00
0-40	1639.69	N.A.	35.00
0-60	2516.13	N.A.	53.70
0-80	2894.15	N.A.	61.70
0-90	2928.15	N.A.	62.40
10-90	2780.7	N.A.	59.30
20-40	1096.04	N.A.	23.40
20-50	1591.43	N.A.	33.90
40-70	1124.88	N.A.	24.00
60-80	378.02	N.A.	8.10
70-80	129.59	N.A.	2.80
80-90	34.00	N.A.	0.70
90-110	139.77	N.A.	3.00
90-120	332.11	N.A.	7.10
90-130	598.05	N.A.	12.80
90-150	1230.71	N.A.	26.20
90-180	1761.42	N.A.	37.60
110-180	1621.65	N.A.	34.60
0-180	4689.57	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	31.20
100-110	108.57
110-120	192.34
120-130	265.94
130-140	313.09
140-150	319.57
150-160	276.68
160-170	187.61
170-180	66.42

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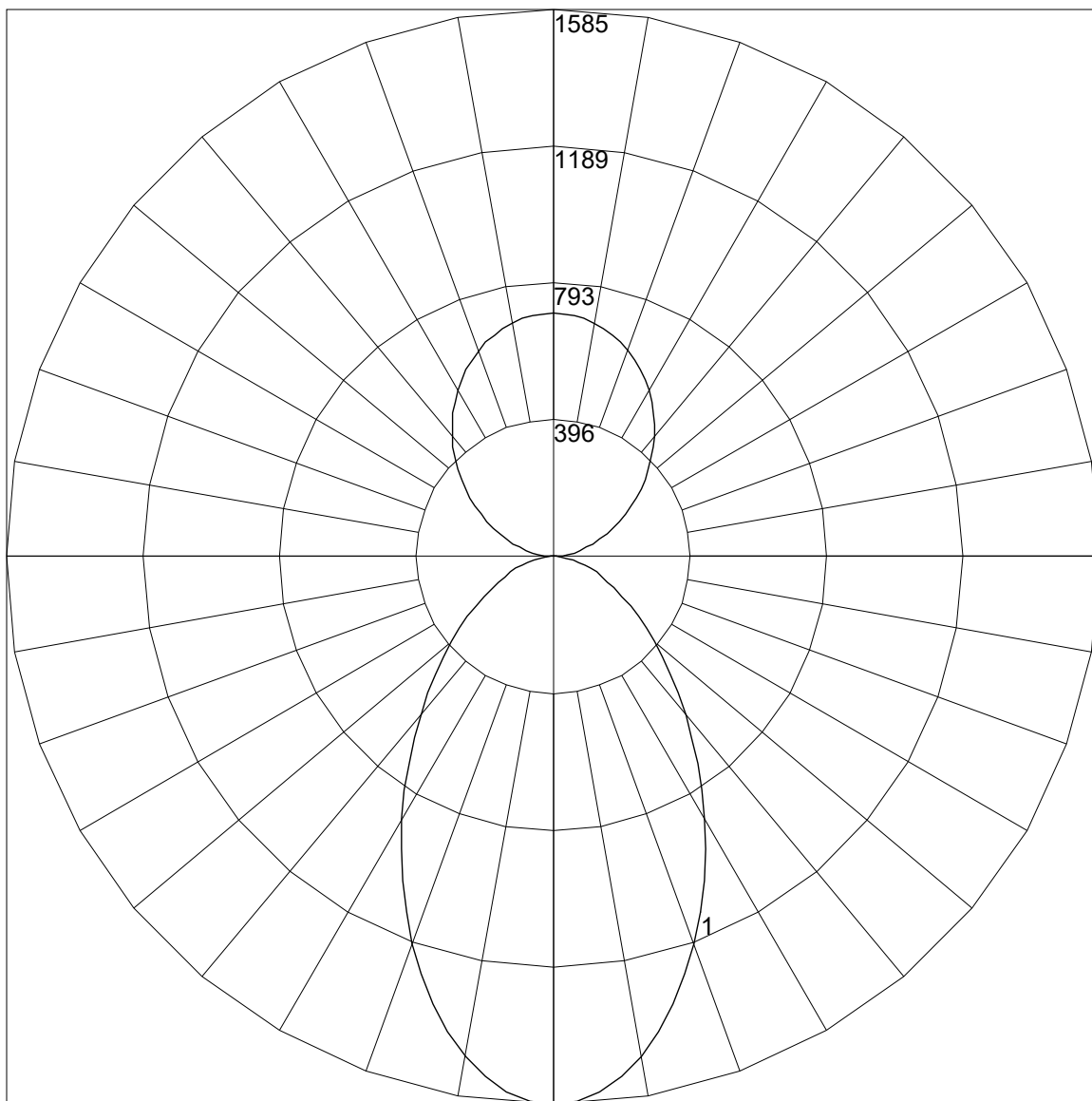
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	59	54
2	93	86	80	75	87	81	76	71	71	67	64	63	60	57	54	52	50	47
3	85	76	69	63	80	72	66	60	64	59	55	56	52	49	49	46	44	40
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	44	41	39	35
5	72	61	53	47	68	58	51	45	52	46	42	46	41	38	40	37	34	31
6	67	55	47	42	63	52	45	40	47	41	37	42	37	34	37	33	31	28
7	62	50	42	37	58	48	41	36	43	37	33	38	34	30	34	30	27	25
8	58	46	38	33	54	44	37	32	39	34	30	35	31	27	32	28	25	23
9	54	42	35	30	51	40	33	29	36	31	27	33	28	25	29	26	23	21
10	51	39	32	27	48	37	31	26	34	28	24	30	26	23	27	24	21	19

POLAR GRAPH



Maximum Candela = 1585 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)