

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-S-835-TG-F-ITL90352.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.001 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-S-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 31.6 WATTS

[_ABSOLUTE]LUMENS]2960

[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	2960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	28.7
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	7663	5387	4244
55	6836	4236	3283
65	5925	3205	2544
75	4946	2473	2257
85	3422	1854	1711

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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	648.728	648.728	648.728	648.728	648.728
2.5	647.500	647.500	646.681	645.863	645.454
5.0	643.816	642.998	640.133	637.677	636.858
7.5	638.496	636.040	629.900	624.170	622.124
10.0	631.128	625.807	615.984	606.161	601.250
12.5	621.715	613.119	597.976	584.469	577.102
15.0	610.664	597.157	577.511	558.274	549.270
17.5	597.157	579.557	553.772	530.033	519.392
20.0	582.423	559.502	528.396	499.746	488.285
22.5	565.642	538.219	501.383	469.458	455.542
25.0	545.996	515.708	473.551	437.124	423.208
27.5	525.940	491.150	445.310	406.018	390.874
30.0	503.429	466.184	415.841	374.911	358.949
32.5	481.327	441.217	386.781	344.215	328.252
35.0	457.588	414.613	358.131	315.155	298.783
37.5	433.031	388.827	330.299	286.504	270.542
40.0	408.473	362.223	302.876	259.900	244.347
42.5	383.507	335.619	275.863	234.934	219.790
45.0	356.903	310.243	250.896	211.195	197.688
47.5	331.936	284.867	226.748	189.093	176.814
50.0	306.150	259.491	203.418	168.628	157.577
52.5	282.821	235.343	181.316	149.801	140.387
55.0	258.263	211.604	160.033	132.611	124.015
57.5	233.706	188.274	140.796	116.648	108.872
60.0	210.376	166.582	122.378	101.504	94.546
62.5	187.456	145.708	105.597	86.770	80.631
65.0	164.945	125.653	89.226	72.854	70.808
67.5	143.661	107.235	74.491	64.259	62.622
70.0	122.788	89.226	60.575	55.664	54.436
72.5	103.142	72.035	50.752	47.478	46.250
75.0	84.314	56.482	42.157	39.292	38.473
77.5	66.305	41.748	33.562	31.515	30.697
80.0	49.934	29.878	25.376	24.148	23.739
82.5	34.381	20.874	18.009	17.190	16.781
85.0	19.646	12.279	10.642	10.232	9.823
87.5	6.139	4.502	4.093	3.684	3.274
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.279	11.869	11.460	10.642	10.232
95.0	28.241	28.241	28.241	27.013	26.195
97.5	45.022	45.022	44.204	44.204	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	124.015	124.015	123.197	122.378
110.0	146.936	146.117	146.527	145.299	144.889
112.5	170.675	169.856	170.265	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	295.100
127.5	327.843	324.159	324.978	323.341	320.885
130.0	355.265	351.173	352.400	350.763	347.898
132.5	381.869	378.186	379.823	377.777	375.321

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-S-S-835-TG-F-ITL90352.001.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	222.51	N.A.	7.50
0-30	441.97	N.A.	14.90
0-40	671.11	N.A.	22.70
0-60	1029.83	N.A.	34.80
0-80	1184.55	N.A.	40.00
0-90	1198.47	N.A.	40.50
10-90	1138.12	N.A.	38.50
20-40	448.60	N.A.	15.20
20-50	651.36	N.A.	22.00
40-70	460.40	N.A.	15.60
60-80	154.72	N.A.	5.20
70-80	53.04	N.A.	1.80
80-90	13.91	N.A.	0.50
90-110	139.77	N.A.	4.70
90-120	332.11	N.A.	11.20
90-130	598.05	N.A.	20.20
90-150	1230.71	N.A.	41.60
90-180	1761.42	N.A.	59.50
110-180	1621.65	N.A.	54.80
0-180	2959.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.35
10-20	162.16
20-30	219.46
30-40	229.14
40-50	202.76
50-60	155.96
60-70	101.68
70-80	53.04
80-90	13.91
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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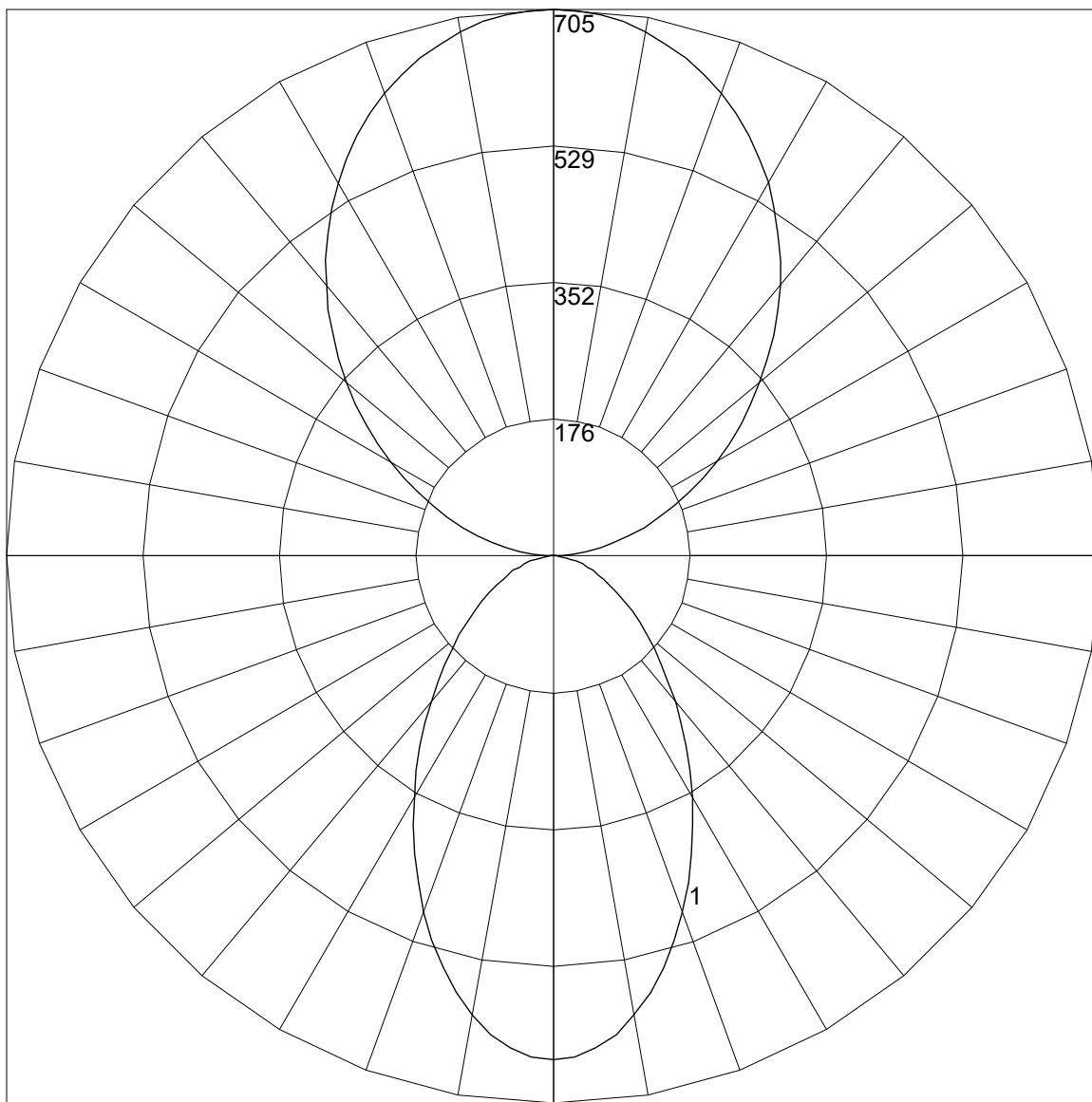
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 704.801 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)