

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-S-835-TG-F-ITL90352.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.004 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-V-S-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 50.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.2 WATTS

[_ABSOLUTE]LUMENS]5502

[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	5502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	50.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	638.495	636.040	629.900	624.170	622.124
10.0	631.128	625.808	615.985	606.162	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	579.558	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	545.995	515.708	473.551	437.124	423.208
27.5	525.940	491.151	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	457.589	414.613	358.130	315.155	298.783
37.5	433.031	388.827	330.299	286.504	270.542
40.0	408.473	362.223	302.876	259.901	244.347
42.5	383.507	335.620	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	306.151	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	124.016
57.5	233.706	188.274	140.797	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	80.630
65.0	164.945	125.653	89.226	72.854	70.808
67.5	143.661	107.234	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	34.380	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	30.000	29.000	28.000	26.000	25.000
95.0	69.000	69.000	69.000	66.000	64.000
97.5	110.000	110.000	108.000	108.000	106.000
100.0	154.000	154.000	153.000	152.000	151.000
102.5	201.000	200.000	200.000	199.000	198.000
105.0	251.000	250.000	250.000	249.000	247.000
107.5	304.000	303.000	303.000	301.000	299.000
110.0	359.000	357.000	358.000	355.000	354.000
112.5	417.000	415.000	416.000	412.000	411.000
115.0	478.000	474.000	476.000	471.000	470.000
117.5	539.000	536.000	536.000	533.000	531.000
120.0	602.000	598.000	599.000	594.000	592.000
122.5	667.000	661.000	663.000	658.000	656.000
125.0	734.000	726.000	728.000	723.000	721.000
127.5	801.000	792.000	794.000	790.000	784.000
130.0	868.000	858.000	861.000	857.000	850.000
132.5	933.000	924.000	928.000	923.000	917.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-S-835-TG-F-ITL90352.004.IES****CANDELA TABULATION - (Cont.)**

135.0	1000.000	990.000	994.000	990.000	982.000
137.5	1069.000	1056.000	1061.000	1057.000	1048.000
140.0	1135.000	1121.000	1127.000	1122.000	1113.000
142.5	1201.000	1184.000	1192.000	1186.000	1176.000
145.0	1265.000	1245.000	1253.000	1248.000	1238.000
147.5	1323.000	1304.000	1313.000	1308.000	1298.000
150.0	1380.000	1361.000	1370.000	1364.000	1355.000
152.5	1433.000	1413.000	1424.000	1417.000	1409.000
155.0	1482.000	1463.000	1476.000	1467.000	1460.000
157.5	1528.000	1509.000	1521.000	1513.000	1507.000
160.0	1566.000	1551.000	1562.000	1555.000	1550.000
162.5	1603.000	1589.000	1598.000	1592.000	1587.000
165.0	1635.000	1623.000	1630.000	1626.000	1621.000
167.5	1661.000	1653.000	1657.000	1655.000	1650.000
170.0	1683.000	1678.000	1680.000	1678.000	1676.000
172.5	1698.000	1698.000	1698.000	1696.000	1696.000
175.0	1712.000	1711.000	1711.000	1710.000	1709.000
177.5	1719.000	1719.000	1719.000	1719.000	1719.000
180.0	1722.000	1722.000	1722.000	1722.000	1722.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	222.51	N.A.	4.00
0-30	441.97	N.A.	8.00
0-40	671.11	N.A.	12.20
0-60	1029.83	N.A.	18.70
0-80	1184.55	N.A.	21.50
0-90	1198.47	N.A.	21.80
10-90	1138.12	N.A.	20.70
20-40	448.60	N.A.	8.20
20-50	651.36	N.A.	11.80
40-70	460.40	N.A.	8.40
60-80	154.72	N.A.	2.80
70-80	53.04	N.A.	1.00
80-90	13.91	N.A.	0.30
90-110	341.49	N.A.	6.20
90-120	811.42	N.A.	14.70
90-130	1461.18	N.A.	26.60
90-150	3006.93	N.A.	54.70
90-180	4303.57	N.A.	78.20
110-180	3962.08	N.A.	72.00
0-180	5502.04	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	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

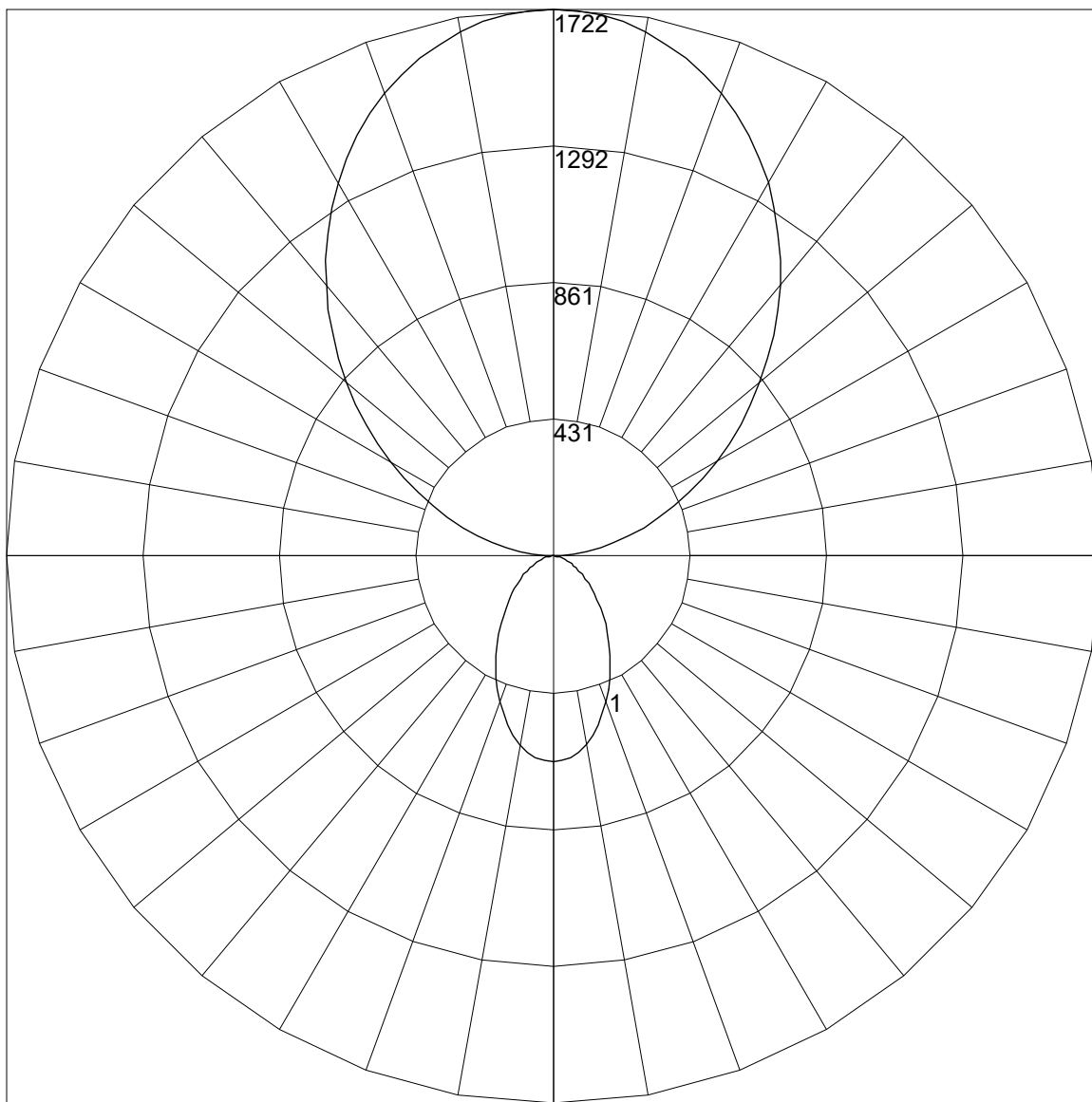
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	72	59	58	56	43	41	40	27	26	26	19
2	84	77	71	66	74	68	64	60	52	49	47	38	36	34	24	23	22	16
3	76	68	61	55	68	60	55	50	46	43	39	34	31	29	22	20	19	14
4	70	60	53	47	62	53	47	42	41	37	34	30	27	25	19	18	17	12
5	64	53	46	40	57	48	41	36	37	33	29	27	24	22	18	16	15	11
6	59	48	40	35	52	43	36	32	33	29	25	24	21	19	16	14	13	10
7	55	43	36	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9
8	51	39	32	27	45	35	29	24	27	23	20	20	17	15	14	12	11	8
9	47	36	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7

POLAR GRAPH



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