

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-ID-RG-4FT-B-V-835-TG-F-ITL90353.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]05/18/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.7 WATTS

[_ABSOLUTE]LUMENS]5799

[OTHER]see www.finelite.com for source file ITL90353. 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	5799
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	54.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10452	9548	8853
55	9742	8399	7499
65	8860	6941	5797
75	7724	4780	3641
85	5641	3102	2914

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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	1507.000	1507.000	1507.000	1507.000	1507.000
2.5	1504.000	1503.000	1504.000	1504.000	1504.000
5.0	1497.000	1496.000	1496.000	1497.000	1498.000
7.5	1486.000	1485.000	1485.000	1485.000	1484.000
10.0	1472.000	1467.000	1469.000	1466.000	1462.000
12.5	1452.000	1446.000	1446.000	1440.000	1433.000
15.0	1429.000	1419.000	1418.000	1410.000	1400.000
17.5	1401.000	1389.000	1384.000	1373.000	1363.000
20.0	1368.000	1354.000	1346.000	1331.000	1322.000
22.5	1332.000	1317.000	1304.000	1286.000	1276.000
25.0	1293.000	1276.000	1259.000	1237.000	1227.000
27.5	1251.000	1232.000	1210.000	1186.000	1175.000
30.0	1205.000	1186.000	1160.000	1133.000	1120.000
32.5	1157.000	1138.000	1107.000	1077.000	1061.000
35.0	1109.000	1087.000	1053.000	1020.000	1003.000
37.5	1059.000	1034.000	996.000	959.000	944.000
40.0	1007.000	981.000	938.000	901.000	884.000
42.5	955.000	926.000	882.000	841.000	824.000
45.0	902.000	871.000	824.000	780.000	764.000
47.5	849.000	815.000	766.000	720.000	704.000
50.0	794.000	758.000	706.000	659.000	643.000
52.5	738.000	701.000	647.000	600.000	584.000
55.0	682.000	645.000	588.000	541.000	525.000
57.5	627.000	588.000	530.000	483.000	467.000
60.0	571.000	531.000	472.000	425.000	409.000
62.5	515.000	474.000	414.000	368.000	353.000
65.0	457.000	418.000	358.000	313.000	299.000
67.5	402.000	362.000	302.000	260.000	246.000
70.0	347.000	307.000	249.000	208.000	196.000
72.5	293.000	254.000	199.000	161.000	149.000
75.0	244.000	203.000	151.000	120.000	115.000
77.5	194.000	155.000	108.000	96.000	95.000
80.0	146.000	109.000	78.000	75.000	75.000
82.5	104.000	66.000	56.000	54.000	54.000
85.0	60.000	36.000	33.000	32.000	31.000
87.5	19.000	12.000	11.000	11.000	10.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.440	16.984	18.528	19.042	19.042
95.0	38.599	40.143	41.687	43.231	43.746
97.5	62.274	64.332	66.905	68.964	69.479
100.0	87.492	89.550	92.638	95.212	95.212
102.5	113.739	115.798	119.400	122.488	122.488
105.0	142.045	144.619	147.707	150.795	150.795
107.5	171.381	173.439	176.527	180.130	179.615
110.0	201.746	203.290	206.377	209.465	209.465
112.5	232.625	234.169	237.257	240.345	239.830
115.0	264.534	265.563	269.166	271.739	270.710
117.5	296.442	296.442	300.560	301.589	302.104
120.0	328.866	328.866	331.954	333.498	334.012
122.5	361.804	361.804	363.863	365.407	366.951
125.0	393.713	393.198	395.257	397.315	398.345
127.5	425.621	424.592	427.165	428.709	430.768
130.0	457.530	455.986	458.559	460.618	461.647
132.5	487.895	485.836	488.924	491.497	492.012

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-TG-F-ITL90353.012.IES****CANDELA TABULATION - (Cont.)**

135.0	519.804	516.201	520.318	522.892	522.892
137.5	550.683	546.051	550.683	552.227	552.742
140.0	579.504	574.872	581.048	581.048	582.077
142.5	609.354	603.693	609.869	609.869	608.839
145.0	638.689	631.484	638.175	637.660	636.631
147.5	665.966	658.246	664.937	664.422	662.364
150.0	691.184	683.465	690.155	689.126	688.096
152.5	715.373	708.168	714.859	713.315	711.771
155.0	738.018	731.328	737.504	736.474	733.901
157.5	758.605	751.914	758.090	755.517	753.973
160.0	778.161	772.500	777.647	775.074	772.500
162.5	795.145	789.999	794.116	791.543	789.999
165.0	810.070	805.953	808.526	806.982	805.438
167.5	822.937	819.849	821.393	820.363	819.334
170.0	833.230	831.686	832.201	831.686	830.657
172.5	840.950	840.950	840.950	839.920	839.920
175.0	847.126	847.126	847.126	846.611	846.611
177.5	851.243	851.243	851.243	851.243	851.243
180.0	852.272	852.272	852.272	852.272	852.272

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-TG-F-ITL90353.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	540.33	N.A.	9.30
0-30	1119.1	N.A.	19.30
0-40	1777.63	N.A.	30.70
0-60	2946.95	N.A.	50.80
0-80	3488.07	N.A.	60.20
0-90	3531.33	N.A.	60.90
10-90	3389.38	N.A.	58.40
20-40	1237.3	N.A.	21.30
20-50	1875.11	N.A.	32.30
40-70	1532.82	N.A.	26.40
60-80	541.11	N.A.	9.30
70-80	177.61	N.A.	3.10
80-90	43.26	N.A.	0.70
90-110	202.93	N.A.	3.50
90-120	468.61	N.A.	8.10
90-130	822.25	N.A.	14.20
90-150	1621.12	N.A.	28.00
90-180	2267.55	N.A.	39.10
110-180	2064.62	N.A.	35.60
0-180	5798.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.95
10-20	398.38
20-30	578.77
30-40	658.53
40-50	637.81
50-60	531.51
60-70	363.50
70-80	177.61
80-90	43.26
90-100	46.82
100-110	156.11
110-120	265.68
120-130	353.64
130-140	401.13
140-150	397.74
150-160	338.44
160-170	227.62
170-180	80.37

IES INDOOR REPORT

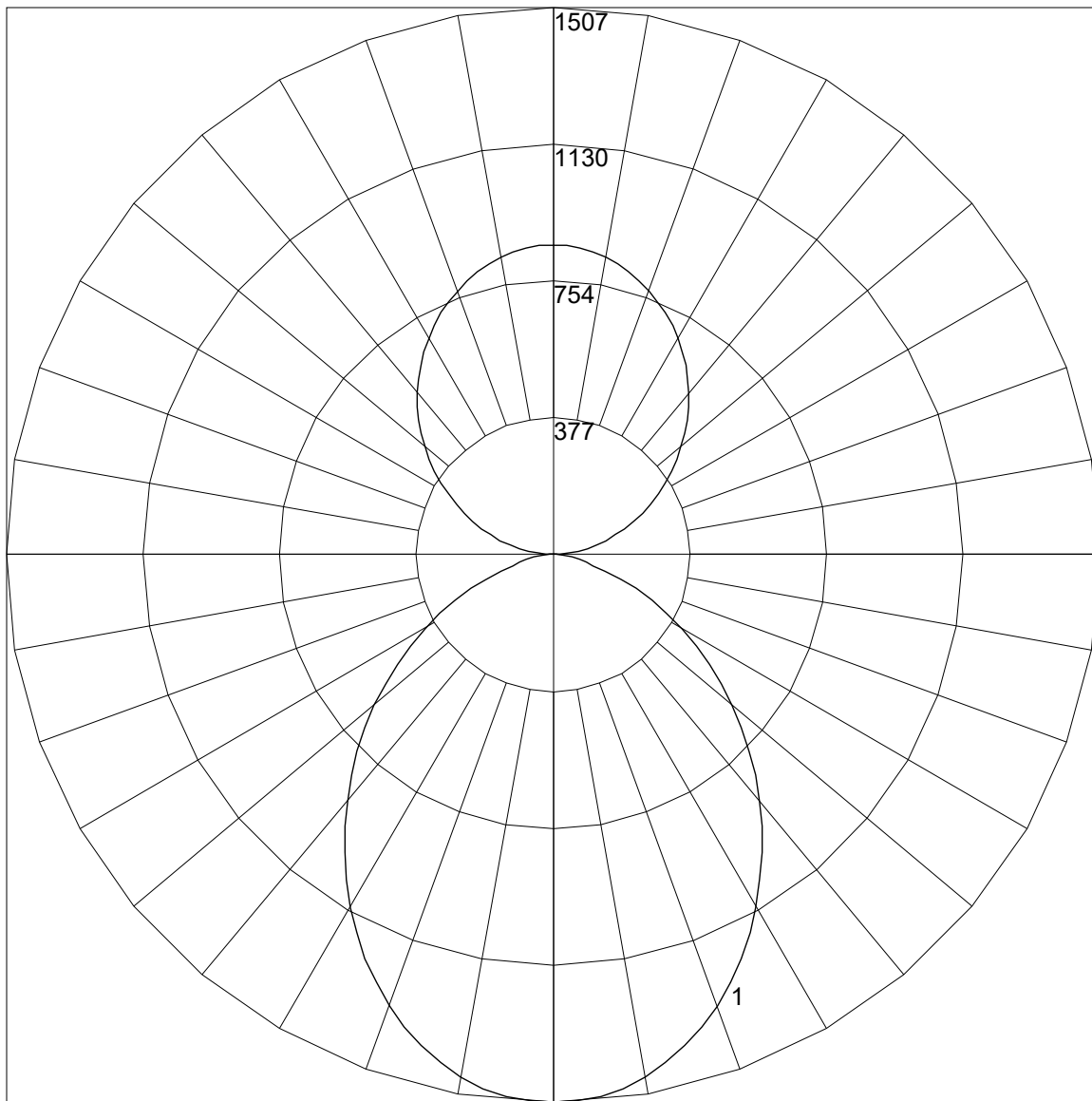
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	85	78	73	86	79	74	70	70	66	62	61	58	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	49	43	49	44	39	43	39	35	38	34	31	29
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	22
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20
9	53	40	33	28	49	38	31	27	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	18	17

POLAR GRAPH



Maximum Candela = 1507 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)