

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-D-RG-4FT-V-835-ITL90353.601.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.601 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUEDATE]05/18/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-4-D-RG-4ft-V-835
[INPUT_ELECTRICAL]120.0 VOLTS, 37.1 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 38.0 WATTS
[ABSOLUTE LUMENS]3477
[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	3477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	37.1
Ballast Factor	1.00
CIE Type	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	10292	9402	8717
55	9593	8271	7385
65	8724	6834	5708
75	7606	4707	3585
85	5554	3055	2870

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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	1483.953	1483.953	1483.953	1483.953	1483.953
2.5	1480.999	1480.014	1480.999	1480.999	1480.999
5.0	1474.106	1473.121	1473.121	1474.106	1475.091
7.5	1463.274	1462.290	1462.290	1462.290	1461.305
10.0	1449.489	1444.565	1446.534	1443.580	1439.641
12.5	1429.794	1423.886	1423.886	1417.978	1411.085
15.0	1407.146	1397.299	1396.314	1388.437	1378.590
17.5	1379.574	1367.758	1362.834	1352.003	1342.155
20.0	1347.079	1333.293	1325.415	1310.645	1301.782
22.5	1311.630	1296.859	1284.058	1266.333	1256.486
25.0	1273.226	1256.486	1239.746	1218.082	1208.235
27.5	1231.868	1213.159	1191.495	1167.862	1157.031
30.0	1186.572	1167.862	1142.260	1115.673	1102.872
32.5	1139.306	1120.596	1090.071	1060.529	1044.774
35.0	1092.040	1070.376	1036.896	1004.401	987.661
37.5	1042.805	1018.187	980.768	944.334	929.563
40.0	991.600	965.997	923.655	887.221	870.481
42.5	940.395	911.839	868.511	828.138	811.398
45.0	888.206	857.680	811.398	768.071	752.316
47.5	836.016	802.536	754.285	708.989	693.234
50.0	781.857	746.408	695.203	648.922	633.167
52.5	726.714	690.280	637.105	590.824	575.069
55.0	671.570	635.136	579.008	532.726	516.971
57.5	617.411	579.008	521.895	475.613	459.858
60.0	562.268	522.879	464.782	418.500	402.745
62.5	507.124	466.751	407.669	362.372	347.602
65.0	450.011	411.607	352.525	308.213	294.427
67.5	395.852	356.464	297.381	256.024	242.238
70.0	341.693	302.305	245.192	204.819	193.003
72.5	288.519	250.116	195.957	158.538	146.721
75.0	240.268	199.895	148.691	118.165	113.241
77.5	191.033	152.630	106.348	94.532	93.547
80.0	143.767	107.333	76.807	73.853	73.853
82.5	102.410	64.991	55.144	53.174	53.174
85.0	59.082	35.449	32.495	31.511	30.526
87.5	18.709	11.816	10.832	10.832	9.847
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	532.07	N.A.	15.30
0-30	1101.98	N.A.	31.70
0-40	1750.45	N.A.	50.30
0-60	2901.88	N.A.	83.50
0-80	3434.72	N.A.	98.80
0-90	3477.32	N.A.	100.00
10-90	3337.54	N.A.	96.00
20-40	1218.38	N.A.	35.00
20-50	1846.44	N.A.	53.10
40-70	1509.38	N.A.	43.40
60-80	532.84	N.A.	15.30
70-80	174.90	N.A.	5.00
80-90	42.60	N.A.	1.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3477.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.78
10-20	392.29
20-30	569.92
30-40	648.46
40-50	628.06
50-60	523.38
60-70	357.94
70-80	174.90
80-90	42.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

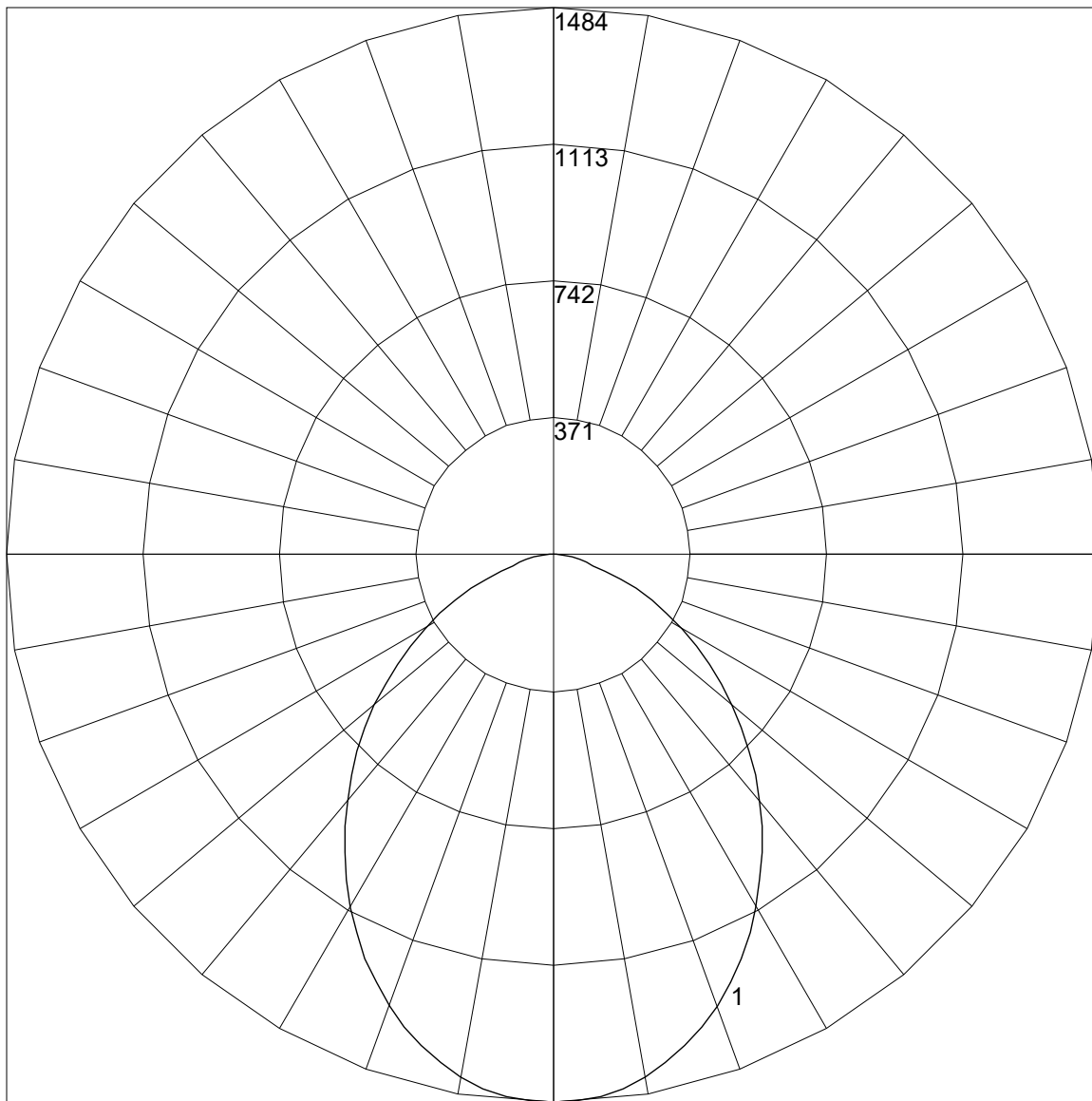
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1483.953 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)