

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-D-RG-4FT-H-835-RG-LHC-ITL91937.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91937.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]06/11/19
[ISSUE DATE]07/24/19
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP-2-D-RG-4ft-H-835-RG-LHC
[INPUT_ELECTRICAL]120.0 VOLTS, 27.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 28.8 WATTS
[OTHER]see www.finelite.com for source file ITL91937. 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
[ABSOLUTE LUMENS]1522

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	27.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6450	4873	4479
55	5599	3908	3694
65	4908	3272	3140
75	4179	2714	2628
85	2943	1919	1791

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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	1501.779	1501.779	1501.779	1501.779	1501.779
2.5	1483.892	1483.892	1480.781	1477.670	1476.892
5.0	1438.006	1431.784	1421.674	1411.564	1406.120
7.5	1375.788	1364.123	1344.680	1327.570	1317.459
10.0	1305.794	1285.573	1257.575	1235.021	1218.689
12.5	1232.688	1200.801	1166.581	1135.473	1115.252
15.0	1150.249	1110.586	1072.477	1032.036	1003.260
17.5	1067.033	1022.703	975.262	923.933	896.712
20.0	977.595	933.265	878.825	824.384	794.053
22.5	889.713	846.160	780.832	727.169	696.838
25.0	800.275	756.723	690.616	636.176	609.733
27.5	713.170	674.284	609.733	552.960	531.183
30.0	625.288	594.957	532.739	479.076	458.855
32.5	551.404	520.295	461.966	415.303	394.305
35.0	486.076	447.967	401.304	360.863	342.975
37.5	430.080	385.750	349.197	312.644	300.200
40.0	384.972	336.753	304.089	279.202	268.314
42.5	345.308	300.200	268.314	251.204	242.649
45.0	318.088	269.091	240.316	227.095	220.873
47.5	293.201	239.538	215.429	204.541	200.652
50.0	268.314	213.873	193.653	185.098	181.209
52.5	245.760	190.542	174.210	167.210	164.099
55.0	223.984	169.543	156.322	150.100	147.767
57.5	202.985	150.878	139.990	134.546	132.990
60.0	183.542	134.546	124.435	120.547	118.214
62.5	164.099	118.214	110.436	106.548	104.992
65.0	144.656	103.437	96.437	93.327	92.549
67.5	126.769	88.660	83.216	80.883	80.105
70.0	108.881	76.217	71.550	69.217	68.439
72.5	92.549	63.773	59.885	58.329	57.551
75.0	75.439	51.330	48.996	47.441	47.441
77.5	59.885	40.441	38.108	37.331	36.553
80.0	45.108	30.331	28.776	27.998	27.998
82.5	31.109	20.221	19.443	19.443	18.665
85.0	17.888	11.666	11.666	10.888	10.888
87.5	6.222	3.889	3.889	3.889	3.889
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	428.96	N.A.	28.20
0-30	749.20	N.A.	49.20
0-40	1005.77	N.A.	66.10
0-60	1349.95	N.A.	88.70
0-80	1508.01	N.A.	99.10
0-90	1522.36	N.A.	100.00
10-90	1391.8	N.A.	91.40
20-40	576.81	N.A.	37.90
20-50	772.12	N.A.	50.70
40-70	446.55	N.A.	29.30
60-80	158.06	N.A.	10.40
70-80	55.69	N.A.	3.70
80-90	14.36	N.A.	0.90
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	1522.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

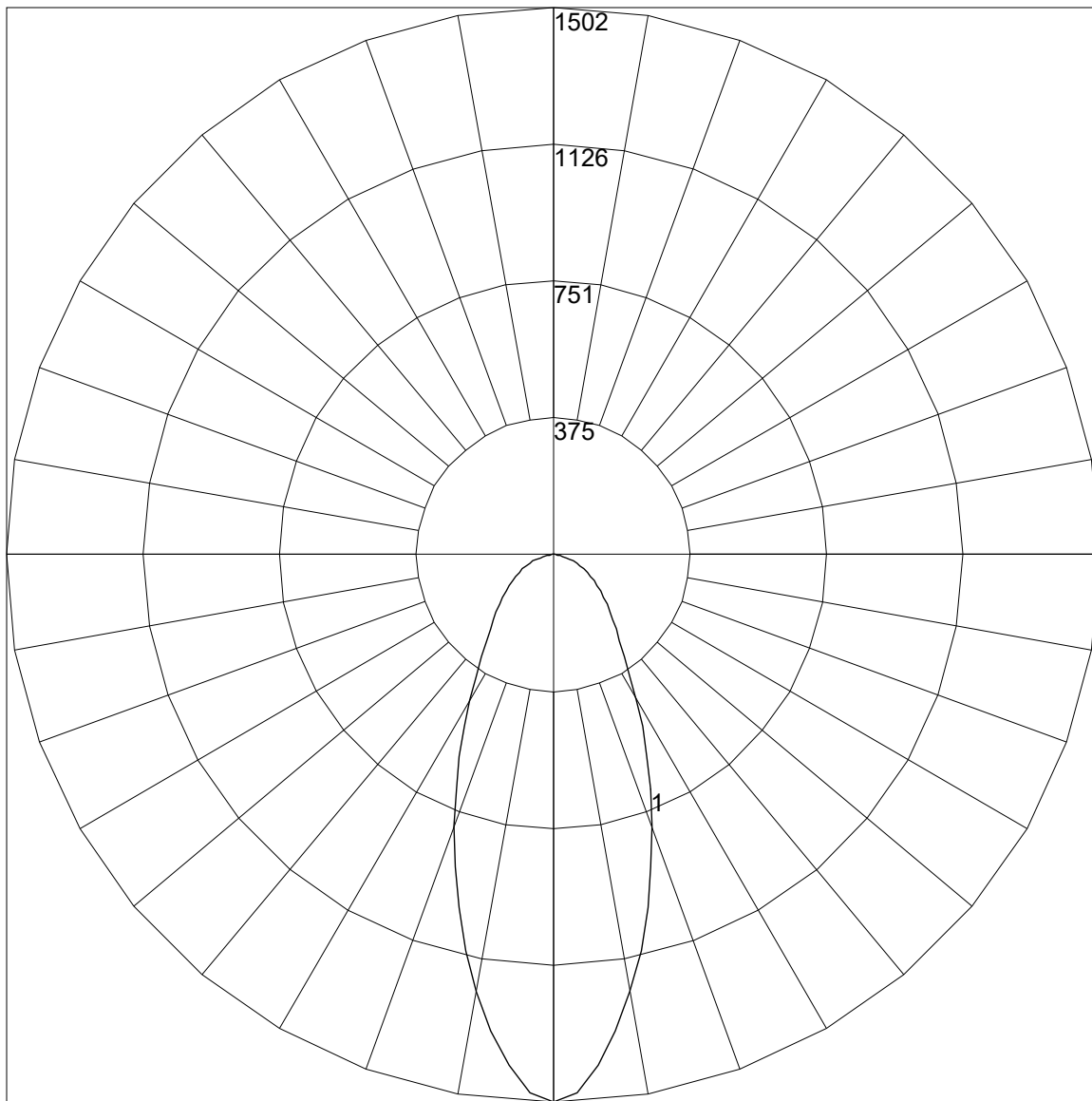
Zone	Lumens
0-10	130.57
10-20	298.39
20-30	320.24
30-40	256.57
40-50	195.31
50-60	148.88
60-70	102.36
70-80	55.69
80-90	14.36
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

POLAR GRAPH



Maximum Candela = 1501.779 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)