

# 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-S-835-RG-LHE-ABL-8H-ITL91933.201.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91933.201 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]06/11/19

[TESTDATE]06/11/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-D-RG-4ft-S-835-RG-LHE-ABL-8H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 14.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 15.8 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL91933. 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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

[\_ABSOLUTE]LUMENS]734

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	14.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.76
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	3022	2324	2963
55	2630	1862	2446
65	2319	1556	1875
75	1996	1293	1315
85	1414	808	674

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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	698.794	698.794	698.794	698.794	698.794
2.5	686.104	686.513	688.560	689.788	691.016
5.0	650.898	653.764	659.495	666.045	669.729
7.5	611.189	613.236	620.605	633.295	640.664
10.0	571.480	569.433	576.802	594.814	603.820
12.5	533.409	526.859	532.590	549.374	565.340
15.0	494.109	485.513	487.969	505.162	524.403
17.5	454.810	445.394	444.985	460.541	480.191
20.0	416.738	404.867	401.182	414.692	434.751
22.5	379.486	365.977	360.655	369.661	392.176
25.0	343.461	327.905	320.946	328.724	349.602
27.5	304.980	291.471	283.693	290.653	310.712
30.0	271.003	256.675	248.078	257.084	276.734
32.5	239.072	222.697	216.557	225.153	245.213
35.0	210.825	192.404	189.129	200.182	219.013
37.5	189.948	165.385	166.204	178.895	197.316
40.0	173.982	144.508	145.736	160.882	178.076
42.5	161.292	128.133	128.542	144.098	160.882
45.0	149.011	114.624	114.624	129.361	146.145
47.5	137.139	103.571	102.342	117.080	132.226
50.0	125.677	92.927	92.108	105.617	119.945
52.5	115.033	83.102	83.102	94.974	108.892
55.0	105.208	74.505	74.505	84.740	97.839
57.5	95.383	66.318	66.318	75.324	87.196
60.0	85.968	58.949	58.949	66.727	76.143
62.5	77.371	51.990	52.399	57.721	65.909
65.0	68.365	45.440	45.849	49.943	55.265
67.5	59.768	39.300	39.709	42.984	46.259
70.0	51.581	33.568	33.568	36.025	37.662
72.5	43.803	27.837	28.656	29.475	30.293
75.0	36.025	22.925	23.334	23.334	23.743
77.5	28.656	18.012	18.012	17.603	17.603
80.0	21.287	13.919	13.100	12.690	12.281
82.5	14.737	9.416	8.597	8.187	7.778
85.0	8.597	5.322	4.912	4.094	4.094
87.5	3.275	2.047	1.637	1.637	1.637
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-S-835-RG-LHE-ABL-8H-ITL91933.201.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	198.94	N.A.	27.10
0-30	350.80	N.A.	47.80
0-40	476.71	N.A.	65.00
0-60	650.41	N.A.	88.60
0-80	727.46	N.A.	99.10
0-90	733.86	N.A.	100.00
10-90	673.34	N.A.	91.80
20-40	277.77	N.A.	37.90
20-50	376.24	N.A.	51.30
40-70	224.29	N.A.	30.60
60-80	77.05	N.A.	10.50
70-80	26.45	N.A.	3.60
80-90	6.40	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	733.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	60.52
10-20	138.43
20-30	151.85
30-40	125.91
40-50	98.47
50-60	75.23
60-70	50.59
70-80	26.45
80-90	6.40
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

# IES INDOOR REPORT

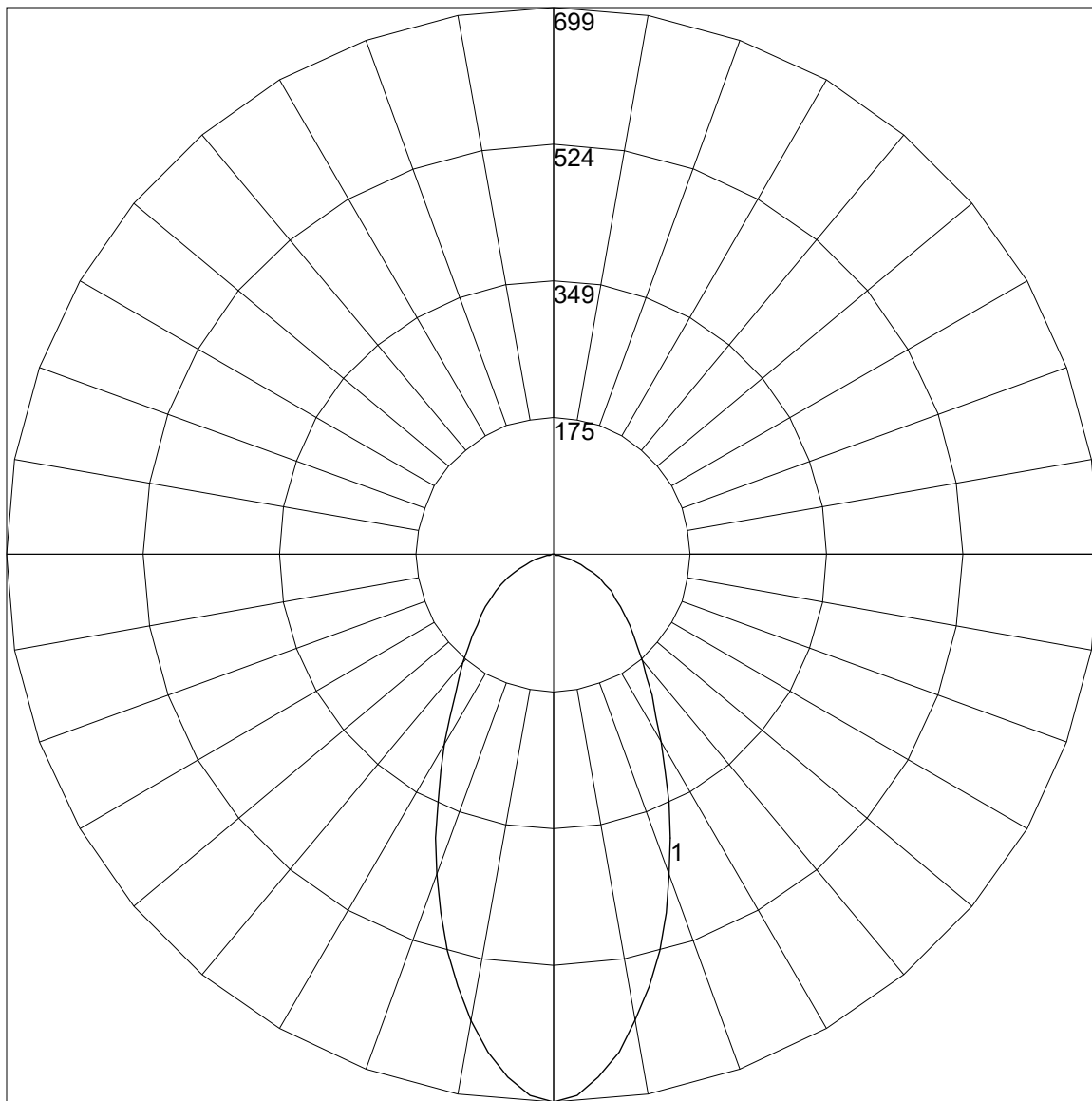
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51
7	74	62	55	50	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37

POLAR GRAPH



Maximum Candela = 698.794 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)