

# 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-WCB-ABL-8H-ITL91551.201.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91551.201 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/12/19

[ISSUEDATE]06/05/19

[MANUFAC]FINELITE, INC.

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

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 14.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 15.8 WATTS

[\_ABSOLUTE]LUMENS]888

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL91551. 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)

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	888
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	14.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3360	4094	4954
55	2791	3014	3606
65	2364	2470	2667
75	2004	2078	2128
85	1543	1470	1470

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-S-835-RG-WCB-ABL-8H-ITL91551.201.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	522.401	522.401	522.401	522.401	522.401
<b>2.5</b>	519.126	519.535	520.764	521.992	522.401
<b>5.0</b>	509.710	511.757	515.441	519.535	521.173
<b>7.5</b>	495.790	499.474	506.434	514.213	517.898
<b>10.0</b>	480.232	483.508	495.380	507.663	512.575
<b>12.5</b>	460.990	465.494	481.461	498.246	505.206
<b>15.0</b>	440.520	445.433	464.675	485.555	494.971
<b>17.5</b>	418.003	423.734	446.661	469.588	481.051
<b>20.0</b>	395.486	402.445	426.191	450.346	461.400
<b>22.5</b>	371.331	378.290	404.902	427.010	439.701
<b>25.0</b>	347.994	355.773	381.156	402.036	417.184
<b>27.5</b>	322.611	332.028	355.364	376.653	393.029
<b>30.0</b>	298.866	307.873	329.981	351.679	368.465
<b>32.5</b>	273.483	282.899	303.369	326.296	344.310
<b>35.0</b>	249.328	259.154	278.396	300.913	320.564
<b>37.5</b>	223.945	235.408	253.831	276.349	296.000
<b>40.0</b>	199.380	210.025	230.086	253.012	271.436
<b>42.5</b>	175.225	185.051	206.750	229.676	248.100
<b>45.0</b>	151.889	161.715	185.051	207.159	223.945
<b>47.5</b>	135.923	140.426	164.581	185.461	200.609
<b>50.0</b>	124.050	125.687	143.701	164.172	178.091
<b>52.5</b>	112.996	113.815	125.687	144.520	153.936
<b>55.0</b>	102.351	102.761	110.539	125.687	132.238
<b>57.5</b>	91.707	92.526	97.438	108.083	110.949
<b>60.0</b>	81.881	82.700	86.385	91.707	92.526
<b>62.5</b>	72.874	72.874	76.149	78.606	80.653
<b>65.0</b>	63.867	63.867	66.733	69.189	72.055
<b>67.5</b>	55.679	55.679	57.726	60.183	62.639
<b>70.0</b>	47.900	47.900	49.129	51.176	53.223
<b>72.5</b>	40.531	40.531	41.350	42.578	44.625
<b>75.0</b>	33.162	33.571	34.390	34.799	35.209
<b>77.5</b>	26.611	26.611	27.430	27.430	27.430
<b>80.0</b>	20.470	20.470	20.470	20.470	20.470
<b>82.5</b>	14.329	14.329	14.329	13.920	13.920
<b>85.0</b>	8.598	8.598	8.188	8.188	8.188
<b>87.5</b>	3.275	3.275	2.866	2.866	3.275
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-S-835-RG-WCB-ABL-8H-ITL91551.201.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	179.14	N.A.	20.20
0-30	353.56	N.A.	39.80
0-40	528.89	N.A.	59.50
0-60	775.36	N.A.	87.30
0-80	878.46	N.A.	98.90
0-90	888.20	N.A.	100.00
10-90	839.63	N.A.	94.50
20-40	349.75	N.A.	39.40
20-50	493.58	N.A.	55.60
40-70	313.12	N.A.	35.30
60-80	103.10	N.A.	11.60
70-80	36.44	N.A.	4.10
80-90	9.74	N.A.	1.10
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	888.20	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.57
10-20	130.57
20-30	174.42
30-40	175.33
40-50	143.82
50-60	102.64
60-70	66.66
70-80	36.44
80-90	9.74
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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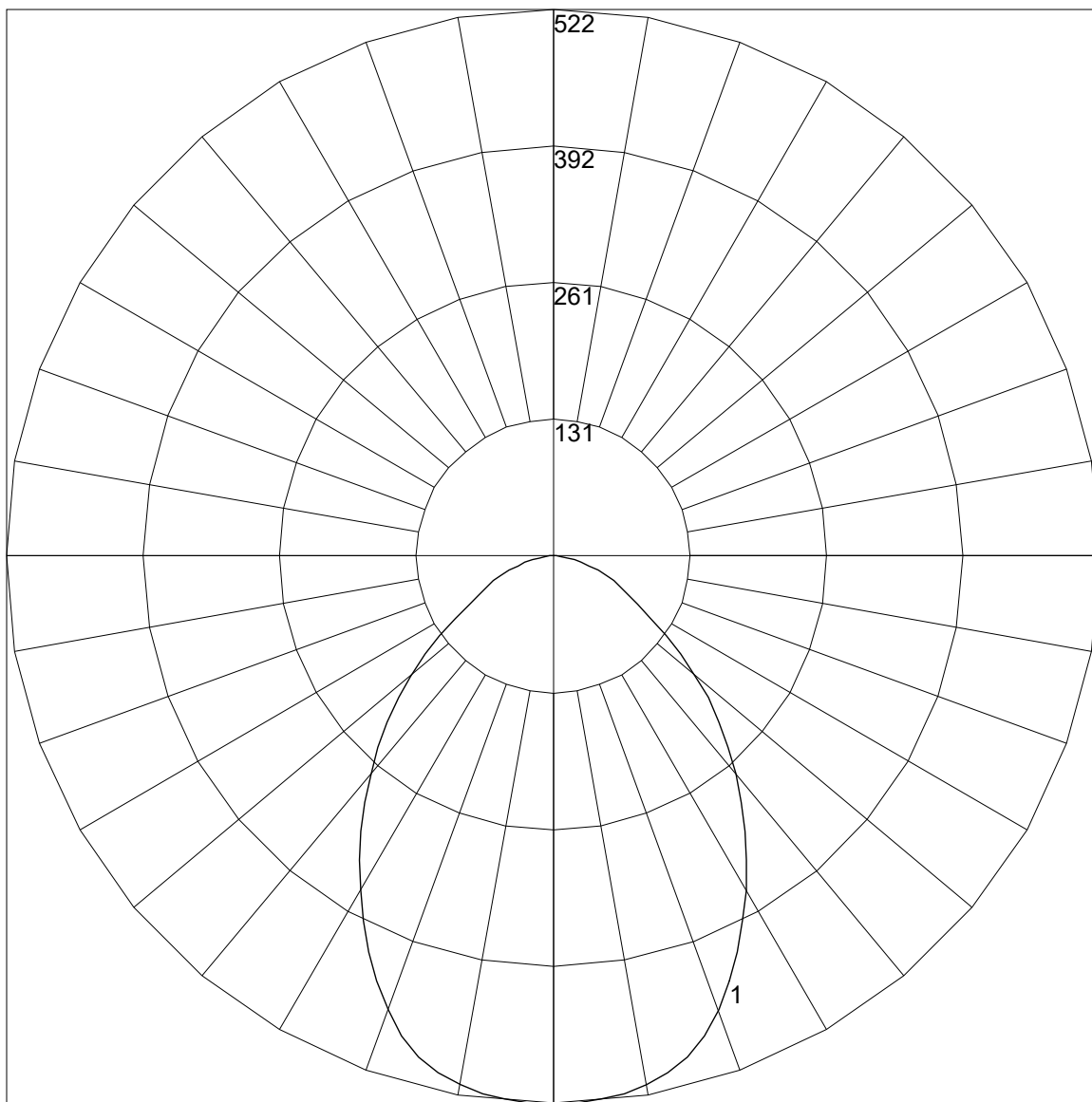
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	49	47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 522.401 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)