

# 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-WCB-ABL-12H-ITL91551.207.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91551.207 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-H-835-RG-WCB-ABL-12H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 28.0 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 28.9 WATTS

[\_ABSOLUTE]LUMENS]1687

[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	1687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	28
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	6383	7777	9411
55	5303	5727	6851
65	4491	4692	5067
75	3807	3948	4042
85	2931	2792	2792

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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	992.444	992.444	992.444	992.444	992.444
2.5	986.222	987.000	989.333	991.667	992.444
5.0	968.333	972.222	979.222	987.000	990.111
7.5	941.889	948.889	962.111	976.889	983.889
10.0	912.333	918.556	941.111	964.444	973.778
12.5	875.778	884.333	914.667	946.556	959.778
15.0	836.889	846.222	882.778	922.444	940.333
17.5	794.111	805.000	848.556	892.111	913.889
20.0	751.333	764.556	809.667	855.556	876.556
22.5	705.444	718.667	769.222	811.222	835.333
25.0	661.111	675.889	724.111	763.778	792.556
27.5	612.889	630.778	675.111	715.556	746.667
30.0	567.778	584.889	626.889	668.111	700.000
32.5	519.556	537.444	576.333	619.889	654.111
35.0	473.667	492.333	528.889	571.667	609.000
37.5	425.444	447.222	482.222	525.000	562.333
40.0	378.778	399.000	437.111	480.667	515.667
42.5	332.889	351.556	392.778	436.333	471.333
45.0	288.556	307.222	351.556	393.556	425.444
47.5	258.222	266.778	312.667	352.333	381.111
50.0	235.667	238.778	273.000	311.889	338.333
52.5	214.667	216.222	238.778	274.556	292.444
55.0	194.444	195.222	210.000	238.778	251.222
57.5	174.222	175.778	185.111	205.333	210.778
60.0	155.556	157.111	164.111	174.222	175.778
62.5	138.444	138.444	144.667	149.333	153.222
65.0	121.333	121.333	126.778	131.444	136.889
67.5	105.778	105.778	109.667	114.333	119.000
70.0	91.000	91.000	93.333	97.222	101.111
72.5	77.000	77.000	78.556	80.889	84.778
75.0	63.000	63.778	65.333	66.111	66.889
77.5	50.556	50.556	52.111	52.111	52.111
80.0	38.889	38.889	38.889	38.889	38.889
82.5	27.222	27.222	27.222	26.444	26.444
85.0	16.333	16.333	15.556	15.556	15.556
87.5	6.222	6.222	5.444	5.444	6.222
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-H-835-RG-WCB-ABL-12H-ITL91551.207.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	340.33	N.A.	20.20
0-30	671.69	N.A.	39.80
0-40	1004.78	N.A.	59.50
0-60	1473.00	N.A.	87.30
0-80	1668.87	N.A.	98.90
0-90	1687.38	N.A.	100.00
10-90	1595.11	N.A.	94.50
20-40	664.45	N.A.	39.40
20-50	937.69	N.A.	55.60
40-70	594.86	N.A.	35.30
60-80	195.87	N.A.	11.60
70-80	69.22	N.A.	4.10
80-90	18.51	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	1687.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.27
10-20	248.06
20-30	331.36
30-40	333.09
40-50	273.23
50-60	194.99
60-70	126.64
70-80	69.22
80-90	18.51
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

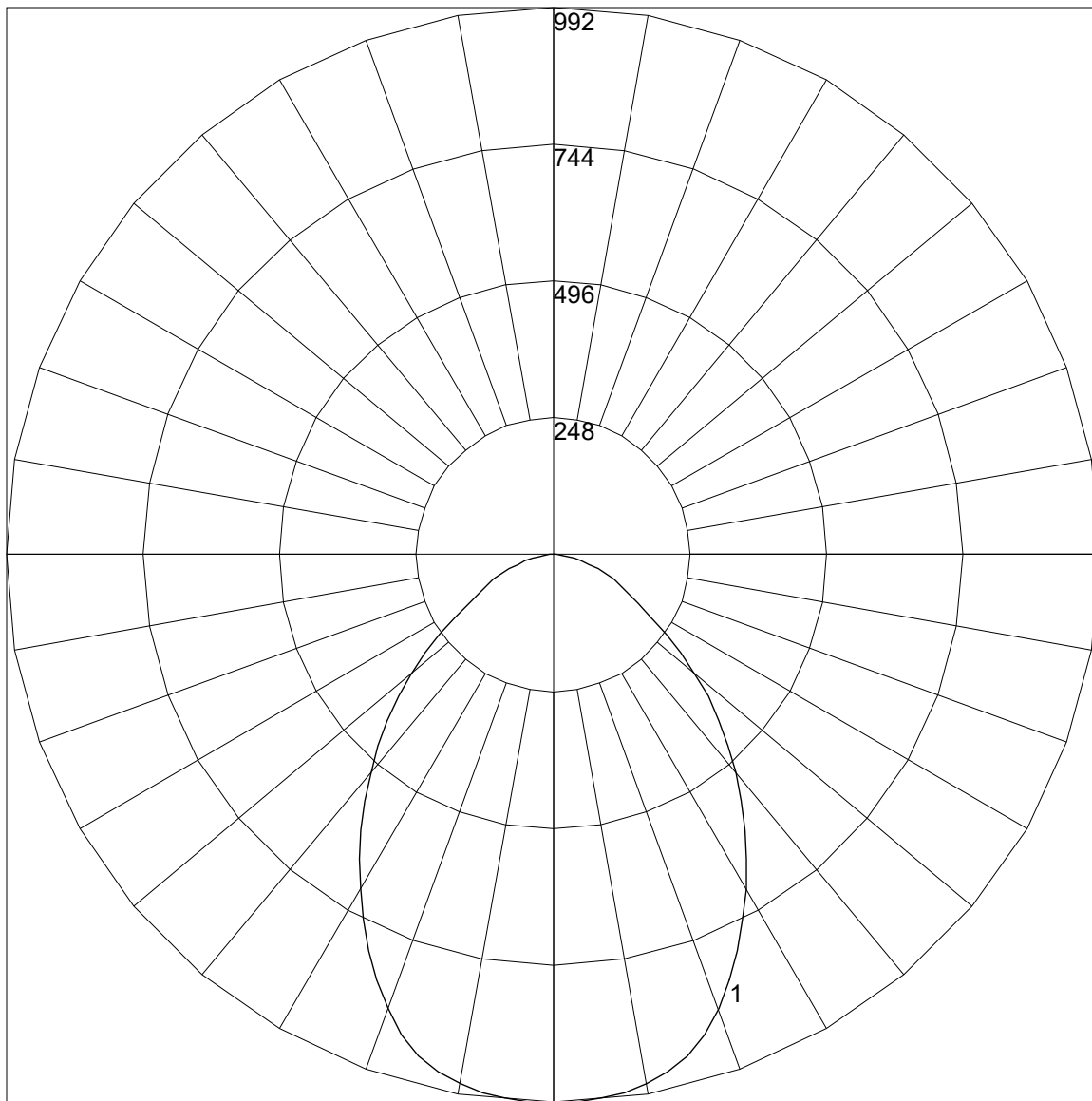
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 992.444 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)