

# 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-V-835-RG-WCB-ABL-8H-ITL91551.200.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91551.200 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/12/19

[ISSUEDATE]06/11/2020

[MANUFAC]FINELITE, INC.

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

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 36.4 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 37.4 WATTS

[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)

[\_ABSOLUTE]LUMENS]2169

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	37.4
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	8207	9999	12100
55	6818	7363	8808
65	5774	6033	6514
75	4895	5077	5197
85	3769	3589	3589

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-WCB-ABL-8H-ITL91551.200.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>	1276	1276	1276	1276	1276
<b>2.5</b>	1268	1269	1272	1275	1276
<b>5.0</b>	1245	1250	1259	1269	1273
<b>7.5</b>	1211	1220	1237	1256	1265
<b>10.0</b>	1173	1181	1210	1240	1252
<b>12.5</b>	1126	1137	1176	1217	1234
<b>15.0</b>	1076	1088	1135	1186	1209
<b>17.5</b>	1021	1035	1091	1147	1175
<b>20.0</b>	966	983	1041	1100	1127
<b>22.5</b>	907	924	989	1043	1074
<b>25.0</b>	850	869	931	982	1019
<b>27.5</b>	788	811	868	920	960
<b>30.0</b>	730	752	806	859	900
<b>32.5</b>	668	691	741	797	841
<b>35.0</b>	609	633	680	735	783
<b>37.5</b>	547	575	620	675	723
<b>40.0</b>	487	513	562	618	663
<b>42.5</b>	428	452	505	561	606
<b>45.0</b>	371	395	452	506	547
<b>47.5</b>	332	343	402	453	490
<b>50.0</b>	303	307	351	401	435
<b>52.5</b>	276	278	307	353	376
<b>55.0</b>	250	251	270	307	323
<b>57.5</b>	224	226	238	264	271
<b>60.0</b>	200	202	211	224	226
<b>62.5</b>	178	178	186	192	197
<b>65.0</b>	156	156	163	169	176
<b>67.5</b>	136	136	141	147	153
<b>70.0</b>	117	117	120	125	130
<b>72.5</b>	99	99	101	104	109
<b>75.0</b>	81	82	84	85	86
<b>77.5</b>	65	65	67	67	67
<b>80.0</b>	50	50	50	50	50
<b>82.5</b>	35	35	35	34	34
<b>85.0</b>	21	21	20	20	20
<b>87.5</b>	8	8	7	7	8
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-WCB-ABL-8H-ITL91551.200.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	437.56	N.A.	20.20
0-30	863.60	N.A.	39.80
0-40	1291.86	N.A.	59.50
0-60	1893.86	N.A.	87.30
0-80	2145.69	N.A.	98.90
0-90	2169.48	N.A.	100.00
10-90	2050.86	N.A.	94.50
20-40	854.30	N.A.	39.40
20-50	1205.6	N.A.	55.60
40-70	764.82	N.A.	35.30
60-80	251.83	N.A.	11.60
70-80	89.00	N.A.	4.10
80-90	23.80	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	2169.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.63
10-20	318.94
20-30	426.04
30-40	428.26
40-50	351.30
50-60	250.70
60-70	162.83
70-80	89.00
80-90	23.80
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

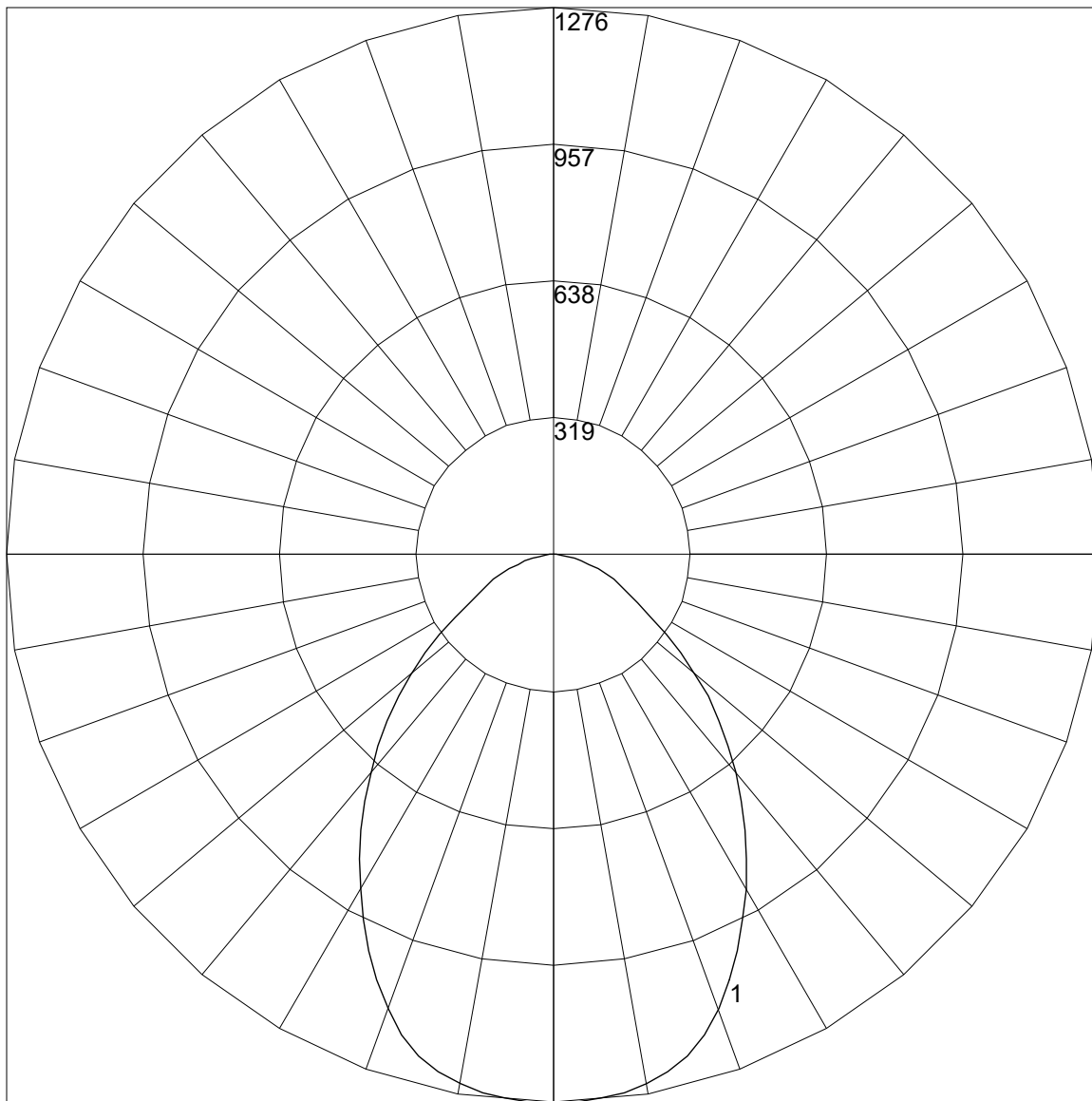
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1276 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)