

# 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-LHC-ABL-8H-ITL91937.200.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91937.200 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]06/11/19

[ISSUEDATE]06/10/2020

[MANUFAC]FINELITE, INC.

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

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 36.4 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 37.3 WATTS

[\_ABSOLUTELUMENS]1957

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

[\_ABSOLUTELUMENS]801

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1957
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	36.4
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	8294	6266	5759
55	7200	5025	4750
65	6311	4207	4037
75	5374	3490	3379
85	3784	2468	2303

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-LHC-ABL-8H-ITL91937.200.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>	1931	1931	1931	1931	1931
<b>2.5</b>	1908	1908	1904	1900	1899
<b>5.0</b>	1849	1841	1828	1815	1808
<b>7.5</b>	1769	1754	1729	1707	1694
<b>10.0</b>	1679	1653	1617	1588	1567
<b>12.5</b>	1585	1544	1500	1460	1434
<b>15.0</b>	1479	1428	1379	1327	1290
<b>17.5</b>	1372	1315	1254	1188	1153
<b>20.0</b>	1257	1200	1130	1060	1021
<b>22.5</b>	1144	1088	1004	935	896
<b>25.0</b>	1029	973	888	818	784
<b>27.5</b>	917	867	784	711	683
<b>30.0</b>	804	765	685	616	590
<b>32.5</b>	709	669	594	534	507
<b>35.0</b>	625	576	516	464	441
<b>37.5</b>	553	496	449	402	386
<b>40.0</b>	495	433	391	359	345
<b>42.5</b>	444	386	345	323	312
<b>45.0</b>	409	346	309	292	284
<b>47.5</b>	377	308	277	263	258
<b>50.0</b>	345	275	249	238	233
<b>52.5</b>	316	245	224	215	211
<b>55.0</b>	288	218	201	193	190
<b>57.5</b>	261	194	180	173	171
<b>60.0</b>	236	173	160	155	152
<b>62.5</b>	211	152	142	137	135
<b>65.0</b>	186	133	124	120	119
<b>67.5</b>	163	114	107	104	103
<b>70.0</b>	140	98	92	89	88
<b>72.5</b>	119	82	77	75	74
<b>75.0</b>	97	66	63	61	61
<b>77.5</b>	77	52	49	48	47
<b>80.0</b>	58	39	37	36	36
<b>82.5</b>	40	26	25	25	24
<b>85.0</b>	23	15	15	14	14
<b>87.5</b>	8	5	5	5	5
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-LHC-ABL-8H-ITL91937.200.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	551.56	N.A.	28.20
0-30	963.32	N.A.	49.20
0-40	1293.23	N.A.	66.10
0-60	1735.78	N.A.	88.70
0-80	1939.01	N.A.	99.10
0-90	1957.47	N.A.	100.00
10-90	1789.58	N.A.	91.40
20-40	741.67	N.A.	37.90
20-50	992.79	N.A.	50.70
40-70	574.17	N.A.	29.30
60-80	203.23	N.A.	10.40
70-80	71.61	N.A.	3.70
80-90	18.46	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	1957.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.89
10-20	383.67
20-30	411.76
30-40	329.90
40-50	251.13
50-60	191.43
60-70	131.62
70-80	71.61
80-90	18.46
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

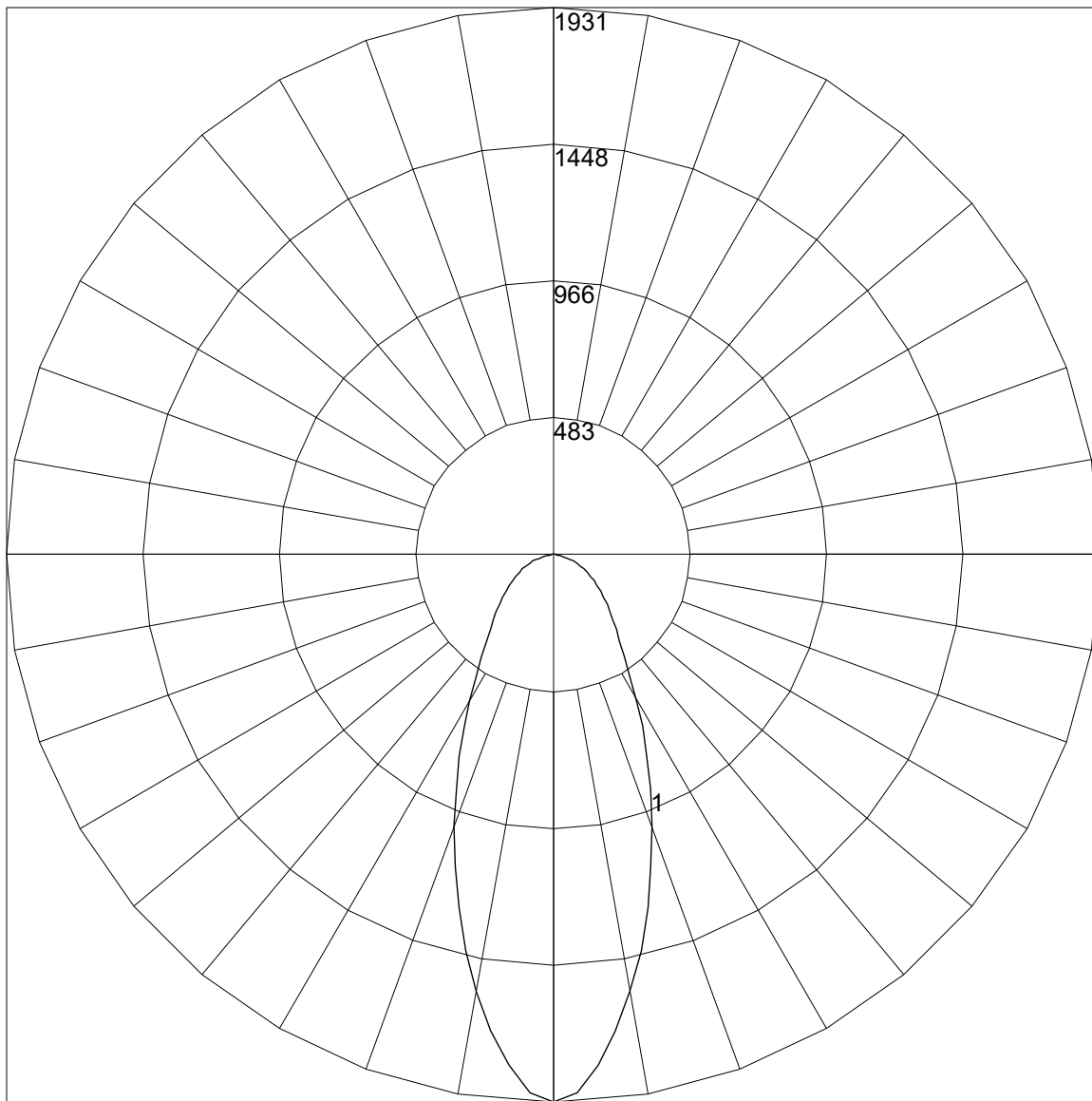
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1931 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)