

# 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-LHE-ITL91933.003.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL91933.003  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[ISSUEDATE]06/11/19  
[\_REVISED]07/24/19  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HP-2-D-RG-4ft-H-835-RG-LHE  
[\_INPUT\_ELECTRICAL]120.0 VOLTS, 27.9 WATTS  
[\_INPUT\_ELECTRICAL]277.0 VOLTS, 28.8 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]1395

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1395
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	27.9
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	5743	4417	5632
55	4998	3540	4648
65	4408	2956	3564
75	3793	2457	2500
85	2688	1536	1280

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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	1328.090	1328.090	1328.090	1328.090	1328.090
2.5	1303.971	1304.749	1308.639	1310.973	1313.307
5.0	1237.061	1242.507	1253.399	1265.848	1272.850
7.5	1161.592	1165.482	1179.487	1203.606	1217.610
10.0	1086.124	1082.234	1096.238	1130.471	1147.588
12.5	1013.767	1001.319	1012.211	1044.110	1074.453
15.0	939.077	922.738	927.407	960.084	996.651
17.5	864.386	846.492	845.714	875.279	912.624
20.0	792.030	769.467	762.465	788.140	826.263
22.5	721.230	695.555	685.441	702.557	745.349
25.0	652.764	623.199	609.972	624.755	664.434
27.5	579.629	553.954	539.172	552.398	590.521
30.0	515.053	487.822	471.484	488.600	525.945
32.5	454.367	423.246	411.576	427.914	466.037
35.0	400.683	365.672	359.448	380.455	416.244
37.5	361.004	314.322	315.878	339.997	375.008
40.0	330.661	274.643	276.977	305.764	338.441
42.5	306.542	243.522	244.300	273.865	305.764
45.0	283.201	217.847	217.847	245.856	277.755
47.5	260.639	196.840	194.506	222.515	251.302
50.0	238.854	176.612	175.056	200.731	227.962
52.5	218.625	157.939	157.939	180.502	206.955
55.0	199.953	141.601	141.601	161.051	185.948
57.5	181.280	126.040	126.040	143.157	165.719
60.0	163.385	112.036	112.036	126.818	144.713
62.5	147.047	98.809	99.587	109.702	125.262
65.0	129.930	86.361	87.139	94.919	105.033
67.5	113.592	74.690	75.468	81.693	87.917
70.0	98.031	63.798	63.798	68.466	71.578
72.5	83.249	52.906	54.462	56.018	57.574
75.0	68.466	43.569	44.347	44.347	45.125
77.5	54.462	34.233	34.233	33.455	33.455
80.0	40.457	26.453	24.897	24.119	23.341
82.5	28.009	17.895	16.339	15.561	14.782
85.0	16.339	10.114	9.336	7.780	7.780
87.5	6.224	3.890	3.112	3.112	3.112
90.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	378.10	N.A.	27.10
0-30	666.71	N.A.	47.80
0-40	906.01	N.A.	65.00
0-60	1236.14	N.A.	88.60
0-80	1382.57	N.A.	99.10
0-90	1394.73	N.A.	100.00
10-90	1279.72	N.A.	91.80
20-40	527.91	N.A.	37.90
20-50	715.07	N.A.	51.30
40-70	426.28	N.A.	30.60
60-80	146.43	N.A.	10.50
70-80	50.27	N.A.	3.60
80-90	12.17	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	1394.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	115.01
10-20	263.09
20-30	288.61
30-40	239.30
40-50	187.15
50-60	142.97
60-70	96.16
70-80	50.27
80-90	12.17
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

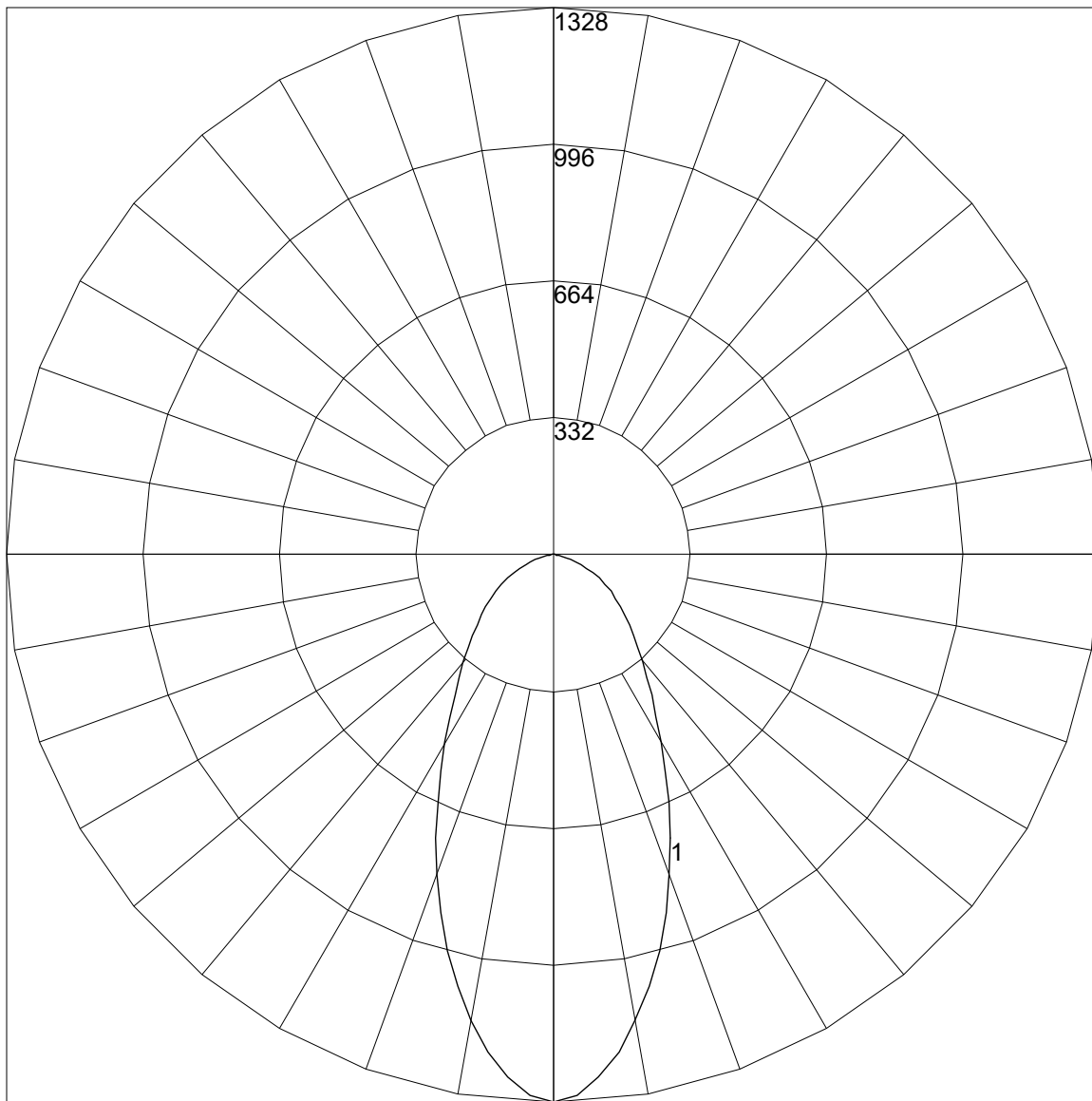
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1328.09 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)