

# 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-B-835-RG-LHE-ITL91933.002.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL91933.002  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[ISSUE DATE]06/11/19  
[REVISED]07/24/19  
[MANUFACTURER]FINELITE, INC.  
[LUMCAT]HP-2-D-RG-4ft-B-835-RG-LHE  
[INPUT ELECTRICAL]120.0 VOLTS, 18.1 WATTS  
[INPUT ELECTRICAL]277.0 VOLTS, 19.4 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]923

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	18.1
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	3800	2923	3727
55	3307	2342	3076
65	2917	1956	2358
75	2510	1626	1654
85	1778	1016	847

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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	878.729	878.729	878.729	878.729	878.729
2.5	862.771	863.286	865.859	867.404	868.948
5.0	818.500	822.103	829.310	837.547	842.180
7.5	768.566	771.140	780.406	796.364	805.630
10.0	718.632	716.059	725.325	747.975	759.300
12.5	670.758	662.521	669.728	690.834	710.911
15.0	621.339	610.529	613.617	635.238	659.433
17.5	571.920	560.080	559.566	579.127	603.837
20.0	524.046	509.117	504.484	521.472	546.696
22.5	477.201	460.213	453.521	464.846	493.159
25.0	431.900	412.339	403.587	413.368	439.622
27.5	383.511	366.523	356.742	365.494	390.718
30.0	340.784	322.767	311.956	323.282	347.991
32.5	300.631	280.040	272.318	283.129	308.353
35.0	265.112	241.946	237.828	251.727	275.407
37.5	238.858	207.971	209.001	224.959	248.124
40.0	218.781	181.717	183.262	202.308	223.929
42.5	202.823	161.126	161.641	181.202	202.308
45.0	187.380	144.138	144.138	162.670	183.776
47.5	172.451	130.239	128.695	147.227	166.274
50.0	158.037	116.855	115.825	132.813	150.830
52.5	144.653	104.500	104.500	119.429	136.931
55.0	132.298	93.690	93.690	106.559	123.032
57.5	119.944	83.394	83.394	94.719	109.648
60.0	108.104	74.128	74.128	83.909	95.749
62.5	97.293	65.377	65.892	72.584	82.880
65.0	85.968	57.141	57.655	62.803	69.495
67.5	75.158	49.419	49.934	54.052	58.170
70.0	64.862	42.212	42.212	45.301	47.360
72.5	55.081	35.005	36.035	37.064	38.094
75.0	45.301	28.828	29.342	29.342	29.857
77.5	36.035	22.650	22.650	22.136	22.136
80.0	26.769	17.503	16.473	15.958	15.443
82.5	18.532	11.840	10.810	10.296	9.781
85.0	10.810	6.692	6.177	5.148	5.148
87.5	4.118	2.574	2.059	2.059	2.059
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	250.17	N.A.	27.10
0-30	441.13	N.A.	47.80
0-40	599.46	N.A.	65.00
0-60	817.89	N.A.	88.60
0-80	914.77	N.A.	99.10
0-90	922.82	N.A.	100.00
10-90	846.72	N.A.	91.80
20-40	349.29	N.A.	37.90
20-50	473.12	N.A.	51.30
40-70	282.05	N.A.	30.60
60-80	96.88	N.A.	10.50
70-80	33.26	N.A.	3.60
80-90	8.05	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	922.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.10
10-20	174.07
20-30	190.96
30-40	158.34
40-50	123.83
50-60	94.60
60-70	63.62
70-80	33.26
80-90	8.05
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

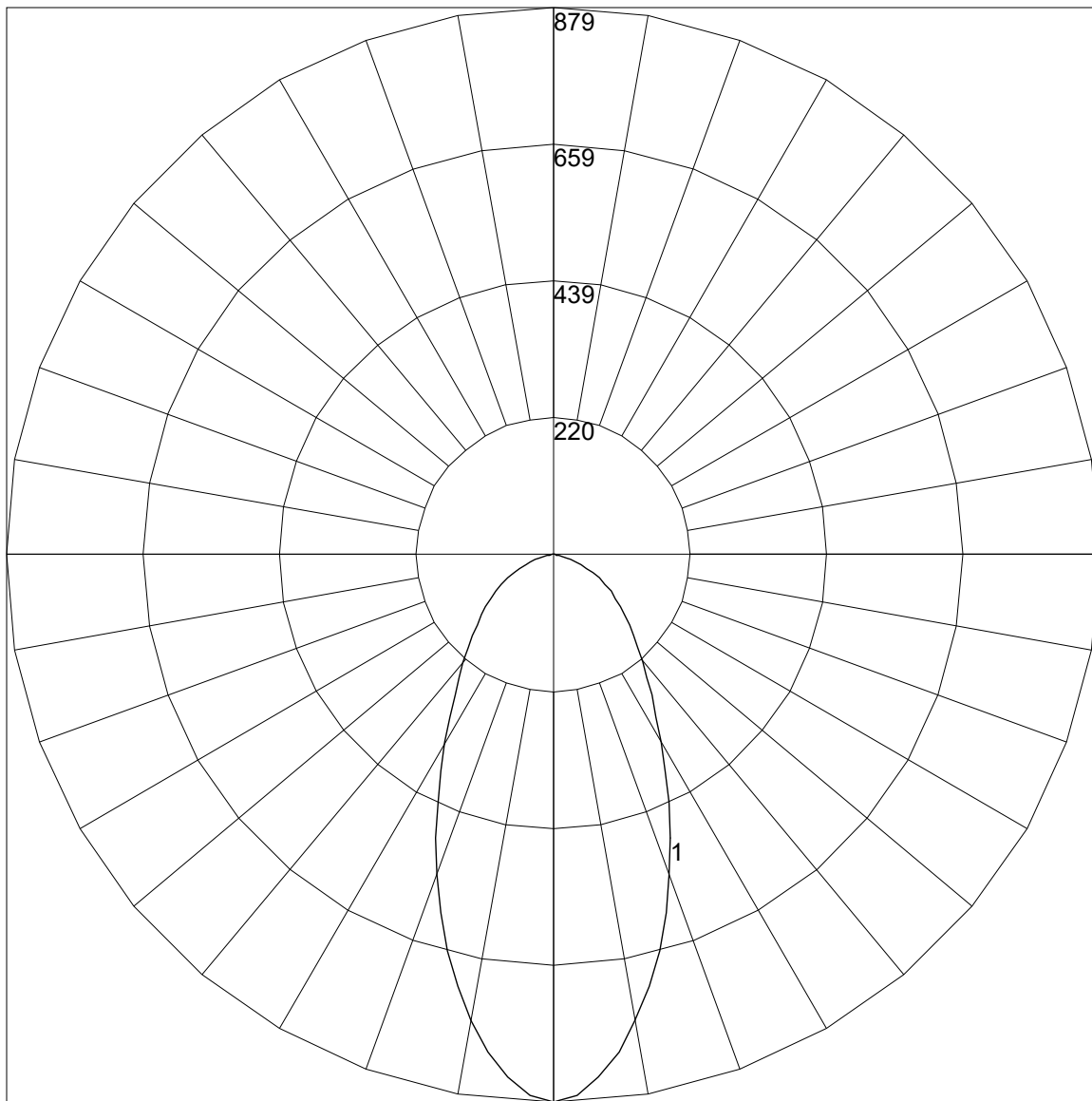
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 878.729 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)