

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-R-RG-4FT-B-835-ITL90351.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90351.002 Family Correlation file
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUE DATE]10/11/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-R-RG-4ft-B-835
[INPUT_ELECTRICAL]120.0 VOLTS, 18.5 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 19.5 WATTS
[ABSOLUTE LUMENS]1496
[OTHER]see www.finelite.com for source file ITL90350. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	18.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9580	6729	5315
55	8568	5299	4127
65	7524	4030	3180
75	6369	3109	2838
85	4841	2420	2331

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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	799.719	799.719	799.719	799.719	799.719
2.5	798.690	798.175	797.661	797.146	797.146
5.0	794.058	793.544	790.456	787.368	786.854
7.5	788.398	785.310	778.105	770.901	768.842
10.0	779.649	773.474	761.123	748.772	744.655
12.5	768.327	757.520	740.023	721.497	715.836
15.0	754.947	738.994	714.807	691.135	681.357
17.5	737.965	718.409	685.988	657.170	644.304
20.0	719.439	693.708	655.111	620.632	605.708
22.5	699.368	669.006	622.690	582.035	566.082
25.0	676.211	640.702	588.211	542.924	526.456
27.5	652.023	611.883	553.216	503.813	486.316
30.0	625.263	581.520	517.708	465.216	447.205
32.5	597.474	550.129	482.199	427.135	407.579
35.0	568.655	518.222	445.661	390.596	371.556
37.5	538.807	485.801	411.696	357.146	337.591
40.0	507.930	452.866	376.702	323.696	304.655
42.5	477.567	420.444	344.795	293.333	275.322
45.0	446.175	388.538	313.404	263.485	247.532
47.5	414.784	356.632	283.041	235.696	221.287
50.0	384.421	326.269	254.737	209.965	197.614
52.5	353.544	295.906	226.433	186.807	176.000
55.0	323.696	266.573	200.187	165.193	155.930
57.5	294.363	238.269	176.000	145.123	136.889
60.0	265.544	210.994	153.357	126.596	118.877
62.5	237.240	185.263	132.257	108.585	102.409
65.0	209.450	159.532	112.187	91.602	88.515
67.5	182.690	135.860	93.661	79.766	78.737
70.0	156.959	112.702	76.164	69.474	68.444
72.5	132.257	91.602	63.298	59.181	58.667
75.0	108.585	71.532	53.006	48.889	48.374
77.5	86.456	53.520	42.199	39.626	39.626
80.0	65.357	38.082	32.421	30.363	30.363
82.5	45.801	26.760	22.643	21.614	21.614
85.0	27.789	16.468	13.895	13.380	13.380
87.5	10.807	6.690	6.175	5.661	5.661
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	275.28	N.A.	18.40
0-30	547.83	N.A.	36.60
0-40	833.17	N.A.	55.70
0-60	1282.16	N.A.	85.70
0-80	1477.62	N.A.	98.80
0-90	1496.00	N.A.	100.00
10-90	1421.47	N.A.	95.00
20-40	557.90	N.A.	37.30
20-50	811.30	N.A.	54.20
40-70	577.24	N.A.	38.60
60-80	195.47	N.A.	13.10
70-80	67.21	N.A.	4.50
80-90	18.37	N.A.	1.20
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	1496.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.52
10-20	200.75
20-30	272.56
30-40	285.34
40-50	253.40
50-60	195.58
60-70	128.26
70-80	67.21
80-90	18.37
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

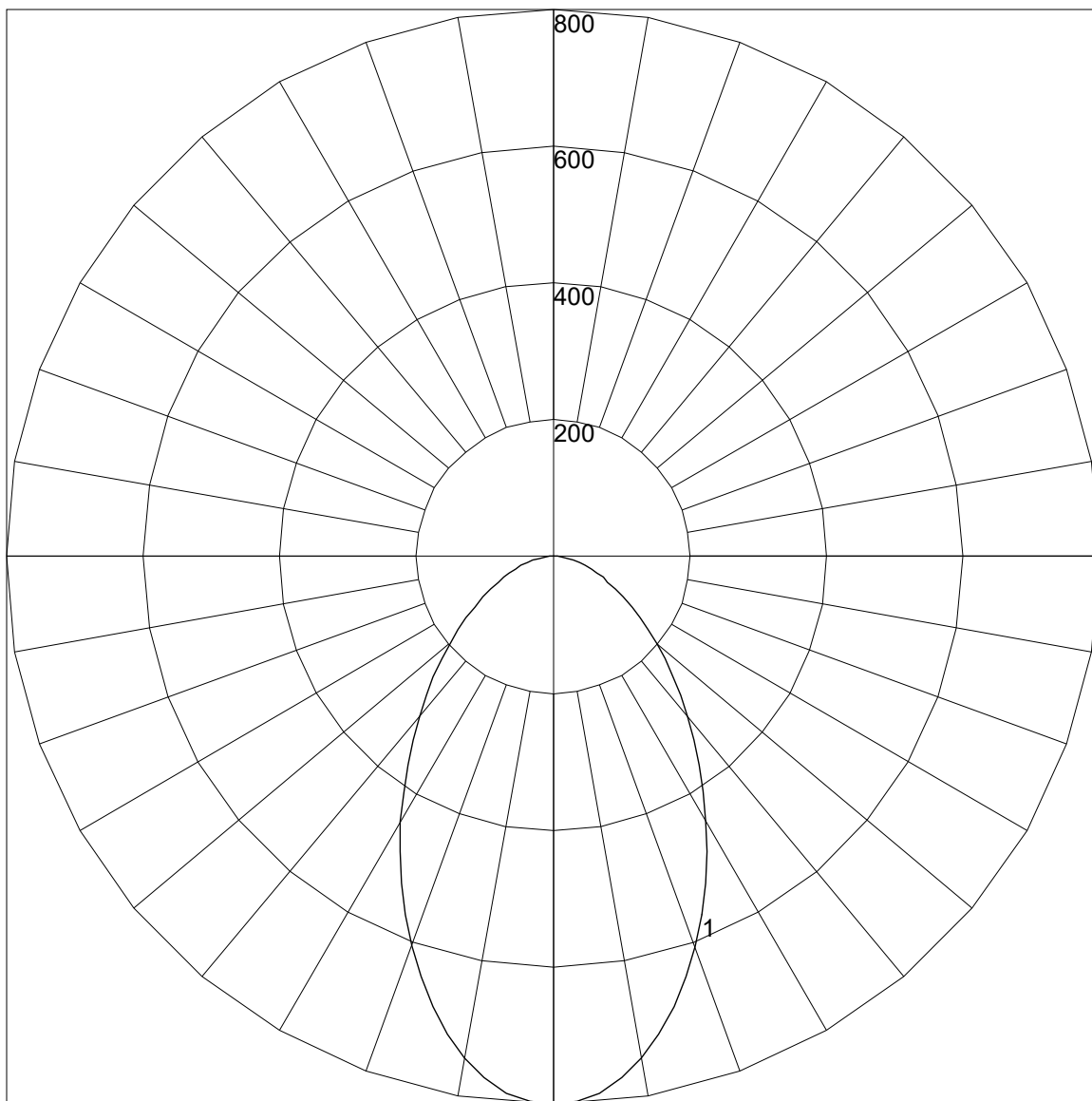
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	45
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

POLAR GRAPH



Maximum Candela = 799.719 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)