

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-S-835-ITL90351.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90351.001 Family Correlation file
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUEDATE]10/11/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-R-RG-4ft-S-835
[INPUT_ELECTRICAL]120.0 VOLTS, 14.5 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 15.8 WATTS
[ABSOLUTE LUMENS]1190
[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	1190
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	14.5
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	7620	5353	4228
55	6815	4215	3283
65	5985	3206	2529
75	5067	2473	2257
85	3851	1925	1854

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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	636.140	636.140	636.140	636.140	636.140
2.5	635.322	634.912	634.503	634.094	634.094
5.0	631.637	631.228	628.772	626.316	625.906
7.5	627.134	624.678	618.947	613.216	611.579
10.0	620.175	615.263	605.439	595.614	592.339
12.5	611.170	602.573	588.655	573.918	569.415
15.0	600.526	587.836	568.596	549.766	541.988
17.5	587.018	571.462	545.672	522.749	512.515
20.0	572.281	551.813	521.111	493.684	481.813
22.5	556.316	532.164	495.322	462.982	450.292
25.0	537.895	509.649	467.895	431.871	418.772
27.5	518.655	486.725	440.058	400.760	386.842
30.0	497.368	462.573	411.813	370.058	355.731
32.5	475.263	437.602	383.567	339.766	324.211
35.0	452.339	412.222	354.503	310.702	295.556
37.5	428.596	386.433	327.485	284.094	268.538
40.0	404.035	360.234	299.649	257.485	242.339
42.5	379.883	334.444	274.269	233.333	219.006
45.0	354.912	309.064	249.298	209.591	196.901
47.5	329.942	283.684	225.146	187.485	176.023
50.0	305.789	259.532	202.632	167.018	157.193
52.5	281.228	235.380	180.117	148.596	140.000
55.0	257.485	212.047	159.240	131.404	124.035
57.5	234.152	189.532	140.000	115.439	108.889
60.0	211.228	167.836	121.988	100.702	94.561
62.5	188.713	147.368	105.205	86.374	81.462
65.0	166.608	126.901	89.240	72.865	70.409
67.5	145.322	108.070	74.503	63.450	62.632
70.0	124.854	89.649	60.585	55.263	54.444
72.5	105.205	72.865	50.351	47.076	46.667
75.0	86.374	56.901	42.164	38.889	38.480
77.5	68.772	42.573	33.567	31.520	31.520
80.0	51.988	30.292	25.789	24.152	24.152
82.5	36.433	21.287	18.012	17.193	17.193
85.0	22.105	13.099	11.053	10.643	10.643
87.5	8.596	5.322	4.912	4.503	4.503
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	218.97	N.A.	18.40
0-30	435.78	N.A.	36.60
0-40	662.75	N.A.	55.70
0-60	1019.9	N.A.	85.70
0-80	1175.38	N.A.	98.80
0-90	1190.00	N.A.	100.00
10-90	1130.72	N.A.	95.00
20-40	443.78	N.A.	37.30
20-50	645.35	N.A.	54.20
40-70	459.17	N.A.	38.60
60-80	155.48	N.A.	13.10
70-80	53.46	N.A.	4.50
80-90	14.62	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	1190.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.28
10-20	159.69
20-30	216.81
30-40	226.97
40-50	201.57
50-60	155.58
60-70	102.02
70-80	53.46
80-90	14.62
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

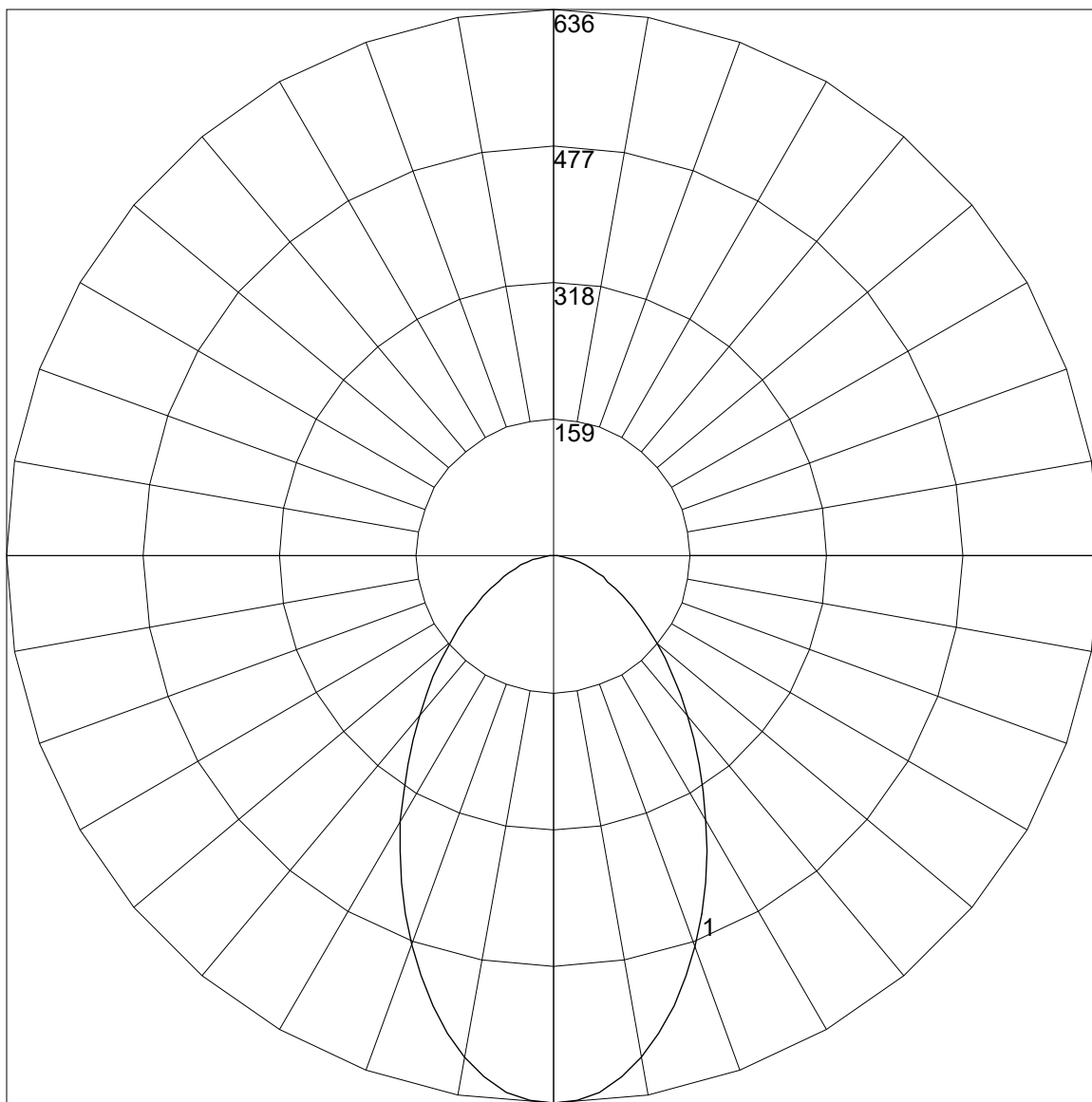
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 636.14 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)