

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 : HPT-RSE-3X3-H-835-ITL91549.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91549.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/01/19
[ISSUEDATE]03/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RSE-3x3-H-835
[INPUT_ELECTRICAL]277.0 VOLTS, 63.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 66.9 WATTS
[ABSOLUTE LUMENS]8524
[OTHER]see www.finelite.com for source file ITL91549. 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	8524
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	63
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.92 ft
Luminous Width (90-270)	2.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3553	3532	3553
55	3275	3254	3273
65	2935	2906	2932
75	2407	2384	2415
85	1593	1570	1638

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPT-RSE-3X3-H-835-ITL91549.003.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3344.513	3344.513	3344.513	3344.513	3344.513
2.5	3340.563	3339.773	3338.193	3338.983	3341.353
5.0	3323.975	3322.395	3320.815	3323.185	3324.765
7.5	3297.118	3297.118	3293.958	3296.328	3297.118
10.0	3262.361	3260.782	3258.412	3260.782	3260.782
12.5	3216.546	3213.386	3212.597	3212.597	3215.756
15.0	3160.462	3158.092	3155.722	3158.092	3161.252
17.5	3097.268	3095.689	3092.529	3095.689	3097.268
20.0	3026.176	3024.596	3020.646	3023.016	3023.806
22.5	2947.974	2941.655	2942.445	2940.865	2945.604
25.0	2862.663	2853.974	2853.184	2855.554	2861.083
27.5	2763.133	2761.553	2756.814	2760.763	2768.663
30.0	2665.183	2664.393	2658.864	2663.604	2668.343
32.5	2562.494	2560.914	2556.175	2556.965	2562.494
35.0	2456.645	2447.166	2447.166	2447.956	2456.645
37.5	2345.267	2336.577	2333.418	2337.367	2345.267
40.0	2226.779	2219.670	2214.140	2218.880	2226.779
42.5	2105.131	2101.182	2096.442	2100.392	2110.661
45.0	1987.434	1977.955	1975.585	1979.535	1987.434
47.5	1862.627	1854.727	1854.727	1857.097	1866.576
50.0	1740.979	1733.080	1725.181	1730.710	1740.189
52.5	1613.802	1607.483	1599.584	1608.273	1617.752
55.0	1485.836	1479.516	1476.357	1482.676	1485.046
57.5	1363.398	1352.340	1350.760	1354.709	1362.609
60.0	1234.642	1228.322	1218.843	1225.163	1238.591
62.5	1105.095	1098.776	1094.826	1099.566	1109.835
65.0	981.078	976.339	971.599	977.129	980.288
67.5	857.061	851.532	847.582	851.532	853.111
70.0	734.624	726.725	725.145	724.355	731.464
72.5	611.397	609.817	601.128	605.867	612.976
75.0	492.909	492.119	488.169	492.909	494.489
77.5	384.690	379.951	381.530	380.740	386.270
80.0	285.160	281.211	278.841	282.001	282.001
82.5	195.110	189.580	189.580	188.790	191.950
85.0	109.799	109.799	108.219	110.589	112.958
87.5	40.286	42.656	42.656	41.866	42.656
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPT-RSE-3X3-H-835-ITL91549.003.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1205.33	N.A.	14.10
0-30	2520.03	N.A.	29.60
0-40	4051.92	N.A.	47.50
0-60	6903.62	N.A.	81.00
0-80	8392.91	N.A.	98.50
0-90	8524.34	N.A.	100.00
10-90	8209.15	N.A.	96.30
20-40	2846.59	N.A.	33.40
20-50	4373.97	N.A.	51.30
40-70	3817.67	N.A.	44.80
60-80	1489.29	N.A.	17.50
70-80	523.32	N.A.	6.10
80-90	131.43	N.A.	1.50
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	8524.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	315.19
10-20	890.14
20-30	1314.7
30-40	1531.89
40-50	1527.39
50-60	1324.32
60-70	965.97
70-80	523.32
80-90	131.43
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

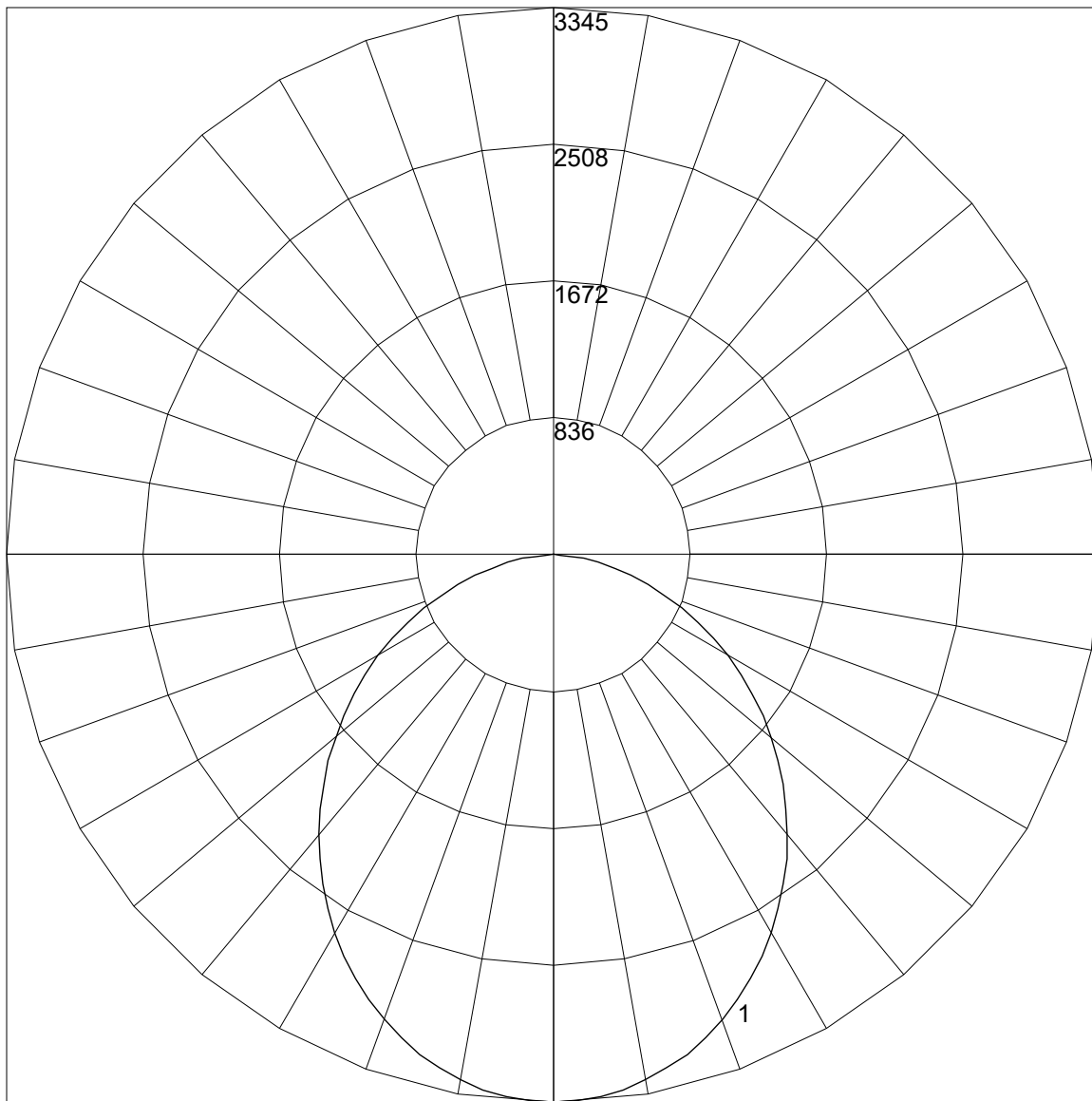
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPT-RSE-3X3-H-835-ITL91549.003.IES

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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

POLAR GRAPH



Maximum Candela = 3344.513 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)