

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-RES-2X2-H-835-ITL89598.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89598.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/28/17
[ISSUEDATE]03/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RES-2X2-H-835
[INPUT_ELECTRICAL]120.0 VOLTS, 41.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 41.1 WATTS
[ABSOLUTE LUMENS]5122
[OTHER]see www.finelite.com for source file ITL89598. 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	5122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	41.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4933	4889	4946
55	4573	4506	4589
65	4143	4042	4138
75	3456	3352	3474
85	2450	2269	2424

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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	2003.193	2003.193	2003.193	2003.193	2003.193
2.5	1999.354	1999.354	2000.121	2000.121	2000.889
5.0	1990.140	1989.372	1990.140	1990.908	1990.908
7.5	1973.248	1973.248	1973.248	1974.784	1974.784
10.0	1951.750	1950.214	1950.982	1951.750	1952.518
12.5	1924.109	1921.806	1922.574	1924.877	1925.645
15.0	1891.094	1888.790	1888.790	1891.861	1892.629
17.5	1852.704	1849.632	1849.632	1853.471	1854.239
20.0	1809.707	1805.868	1805.100	1808.939	1811.242
22.5	1762.871	1758.264	1756.729	1761.335	1764.407
25.0	1710.660	1706.054	1704.518	1709.125	1712.964
27.5	1655.379	1650.004	1648.469	1653.843	1657.682
30.0	1596.258	1590.884	1588.580	1594.723	1597.794
32.5	1534.834	1527.924	1525.620	1532.531	1537.137
35.0	1470.339	1463.429	1461.125	1468.035	1472.642
37.5	1403.540	1395.862	1393.559	1400.469	1405.843
40.0	1334.438	1326.760	1324.457	1332.135	1336.741
42.5	1264.568	1256.122	1253.051	1260.729	1266.872
45.0	1191.627	1183.949	1180.878	1188.556	1194.698
47.5	1119.454	1110.240	1107.169	1115.615	1121.757
50.0	1048.816	1035.763	1032.692	1041.138	1048.048
52.5	970.500	961.287	958.216	966.661	973.572
55.0	896.024	886.042	882.971	891.417	899.095
57.5	820.779	811.566	808.494	816.940	823.850
60.0	748.606	737.089	733.250	741.696	748.606
62.5	669.522	661.844	658.005	666.451	672.594
65.0	598.117	587.368	583.529	591.975	597.349
67.5	519.801	512.891	509.052	517.498	522.872
70.0	446.860	437.647	436.111	443.789	449.164
72.5	374.687	366.241	365.473	372.383	376.990
75.0	305.585	297.139	296.371	302.514	307.120
77.5	239.554	231.876	231.108	236.483	241.089
80.0	178.898	171.220	171.220	175.826	179.665
82.5	122.848	116.706	115.170	121.313	125.152
85.0	72.941	68.334	67.566	71.405	72.173
87.5	29.176	27.641	27.641	29.944	28.409
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	721.34	N.A.	14.10
0-30	1507.64	N.A.	29.40
0-40	2424.17	N.A.	47.30
0-60	4135.13	N.A.	80.70
0-80	5038.89	N.A.	98.40
0-90	5121.83	N.A.	100.00
10-90	4933.1	N.A.	96.30
20-40	1702.84	N.A.	33.20
20-50	2618.18	N.A.	51.10
40-70	2294.83	N.A.	44.80
60-80	903.75	N.A.	17.60
70-80	319.88	N.A.	6.20
80-90	82.95	N.A.	1.60
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	5121.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.73
10-20	532.60
20-30	786.30
30-40	916.53
40-50	915.34
50-60	795.62
60-70	583.87
70-80	319.88
80-90	82.95
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

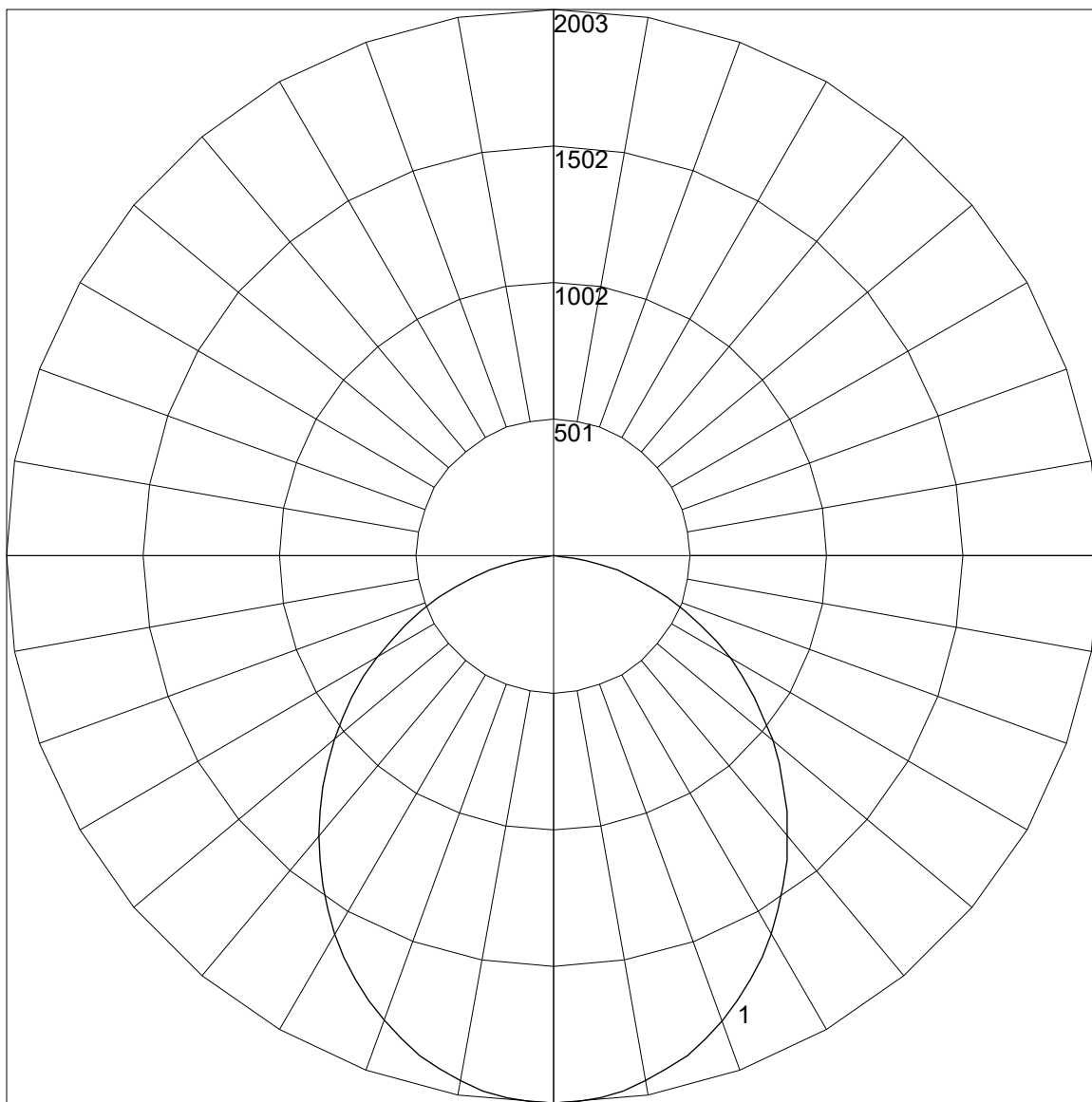
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	87	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

POLAR GRAPH



Maximum Candela = 2003.193 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)