

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-B-835-ITL89598.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89598.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]03/22/19
[TEST DATE]11/09/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HPT-RES-2X2-B-835
[INPUT_ELECTRICAL]120.0 VOLTS, 36.1 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 36.0 WATTS
[ABSOLUTE LUMENS]4527
[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	4527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	36
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	4360	4321	4371
55	4042	3983	4056
65	3662	3572	3657
75	3055	2963	3070
85	2165	2006	2142

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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	1770.491	1770.491	1770.491	1770.491	1770.491
2.5	1767.098	1767.098	1767.776	1767.776	1768.455
5.0	1758.954	1758.276	1758.954	1759.633	1759.633
7.5	1744.025	1744.025	1744.025	1745.382	1745.382
10.0	1725.024	1723.667	1724.345	1725.024	1725.702
12.5	1700.594	1698.558	1699.237	1701.272	1701.951
15.0	1671.414	1669.378	1669.378	1672.092	1672.771
17.5	1637.483	1634.769	1634.769	1638.162	1638.840
20.0	1599.481	1596.088	1595.410	1598.803	1600.838
22.5	1558.086	1554.014	1552.657	1556.729	1559.443
25.0	1511.941	1507.869	1506.512	1510.583	1513.976
27.5	1463.081	1458.331	1456.973	1461.724	1465.117
30.0	1410.828	1406.078	1404.042	1409.471	1412.185
32.5	1356.539	1350.432	1348.396	1354.503	1358.575
35.0	1299.536	1293.429	1291.393	1297.500	1301.572
37.5	1240.497	1233.711	1231.675	1237.783	1242.533
40.0	1179.422	1172.636	1170.600	1177.386	1181.458
42.5	1117.669	1110.204	1107.490	1114.276	1119.705
45.0	1053.201	1046.415	1043.700	1050.487	1055.915
47.5	989.412	981.268	978.554	986.019	991.448
50.0	926.980	915.443	912.729	920.194	926.301
52.5	857.762	849.618	846.904	854.369	860.476
55.0	791.937	783.115	780.400	787.865	794.651
57.5	725.433	717.290	714.575	722.040	728.147
60.0	661.644	651.465	648.071	655.536	661.644
62.5	591.747	584.961	581.568	589.033	594.461
65.0	528.636	519.136	515.743	523.207	527.958
67.5	459.418	453.311	449.918	457.382	462.133
70.0	394.950	386.807	385.450	392.236	396.986
72.5	331.161	323.696	323.018	329.125	333.197
75.0	270.086	262.622	261.943	267.372	271.444
77.5	211.726	204.940	204.261	209.012	213.083
80.0	158.116	151.330	151.330	155.401	158.794
82.5	108.577	103.149	101.791	107.220	110.613
85.0	64.468	60.396	59.718	63.111	63.789
87.5	25.787	24.430	24.430	26.466	25.109
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	637.54	N.A.	14.10
0-30	1332.51	N.A.	29.40
0-40	2142.57	N.A.	47.30
0-60	3654.77	N.A.	80.70
0-80	4453.54	N.A.	98.40
0-90	4526.85	N.A.	100.00
10-90	4360.04	N.A.	96.30
20-40	1505.03	N.A.	33.20
20-50	2314.03	N.A.	51.10
40-70	2028.25	N.A.	44.80
60-80	798.77	N.A.	17.60
70-80	282.72	N.A.	6.20
80-90	73.31	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	4526.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.81
10-20	470.73
20-30	694.96
30-40	810.06
40-50	809.01
50-60	703.19
60-70	516.05
70-80	282.72
80-90	73.31
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

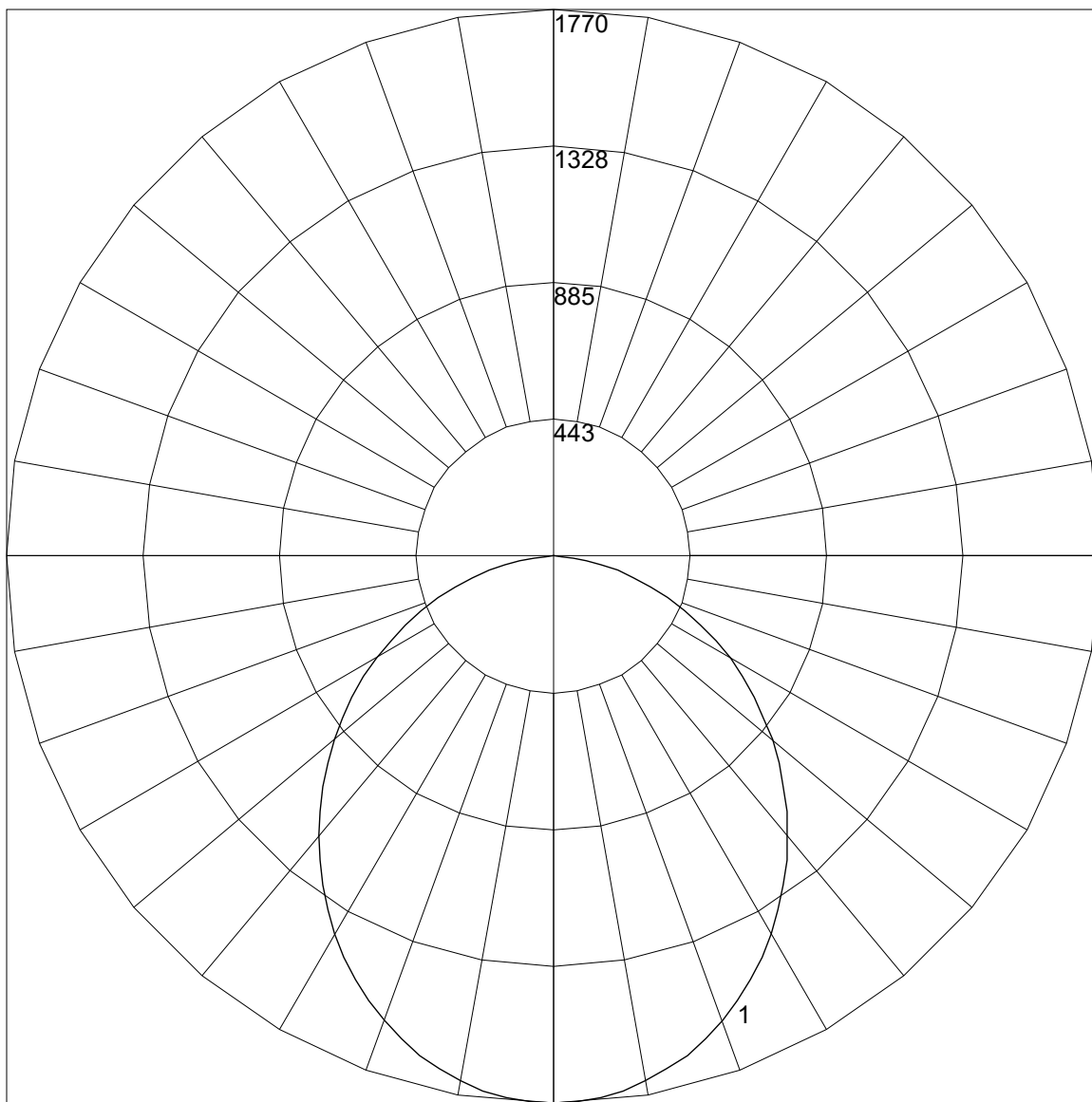
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1770.491 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)