

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-B-835-ITL91549.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91549.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/01/19
[ISSUEDATE]03/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RSE-3x3-B-835
[INPUT_ELECTRICAL]277.0 VOLTS, 40.8 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 45.1 WATTS
[ABSOLUTE LUMENS]5765
[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	5765
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	40.8
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	2403	2389	2403
55	2215	2201	2214
65	1985	1966	1983
75	1628	1613	1633
85	1077	1062	1108

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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	2261.976	2261.976	2261.976	2261.976	2261.976
2.5	2259.305	2258.771	2257.703	2258.237	2259.840
5.0	2248.086	2247.018	2245.949	2247.552	2248.620
7.5	2229.922	2229.922	2227.785	2229.388	2229.922
10.0	2206.415	2205.347	2203.744	2205.347	2205.347
12.5	2175.429	2173.292	2172.758	2172.758	2174.895
15.0	2137.498	2135.896	2134.293	2135.896	2138.033
17.5	2094.759	2093.691	2091.554	2093.691	2094.759
20.0	2046.677	2045.609	2042.938	2044.540	2045.075
22.5	1993.787	1989.514	1990.048	1988.979	1992.185
25.0	1936.089	1930.213	1929.679	1931.281	1935.021
27.5	1868.775	1867.707	1864.501	1867.172	1872.515
30.0	1802.529	1801.995	1798.255	1801.461	1804.666
32.5	1733.078	1732.009	1728.804	1729.338	1733.078
35.0	1661.490	1655.079	1655.079	1655.613	1661.490
37.5	1586.162	1580.285	1578.148	1580.819	1586.162
40.0	1506.025	1501.217	1497.478	1500.683	1506.025
42.5	1423.752	1421.081	1417.876	1420.547	1427.492
45.0	1344.150	1337.740	1336.137	1338.808	1344.150
47.5	1259.740	1254.398	1254.398	1256.001	1262.412
50.0	1177.467	1172.125	1166.782	1170.522	1176.933
52.5	1091.454	1087.180	1081.838	1087.715	1094.126
55.0	1004.907	1000.633	998.496	1002.770	1004.373
57.5	922.100	914.621	913.552	916.223	921.566
60.0	835.019	830.745	824.334	828.608	837.690
62.5	747.403	743.129	740.458	743.664	750.609
65.0	663.527	660.322	657.116	660.856	662.993
67.5	579.652	575.912	573.241	575.912	576.980
70.0	496.844	491.502	490.433	489.899	494.707
72.5	413.503	412.434	406.557	409.763	414.571
75.0	333.366	332.832	330.161	333.366	334.435
77.5	260.175	256.970	258.038	257.504	261.244
80.0	192.861	190.190	188.587	190.724	190.724
82.5	131.958	128.218	128.218	127.684	129.821
85.0	74.260	74.260	73.191	74.794	76.396
87.5	27.246	28.849	28.849	28.315	28.849
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	815.19	N.A.	14.10
0-30	1704.36	N.A.	29.60
0-40	2740.41	N.A.	47.50
0-60	4669.09	N.A.	81.00
0-80	5676.33	N.A.	98.50
0-90	5765.22	N.A.	100.00
10-90	5552.05	N.A.	96.30
20-40	1925.22	N.A.	33.40
20-50	2958.23	N.A.	51.30
40-70	2581.99	N.A.	44.80
60-80	1007.24	N.A.	17.50
70-80	353.94	N.A.	6.10
80-90	88.89	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	5765.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.17
10-20	602.02
20-30	889.17
30-40	1036.05
40-50	1033.01
50-60	895.67
60-70	653.31
70-80	353.94
80-90	88.89
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

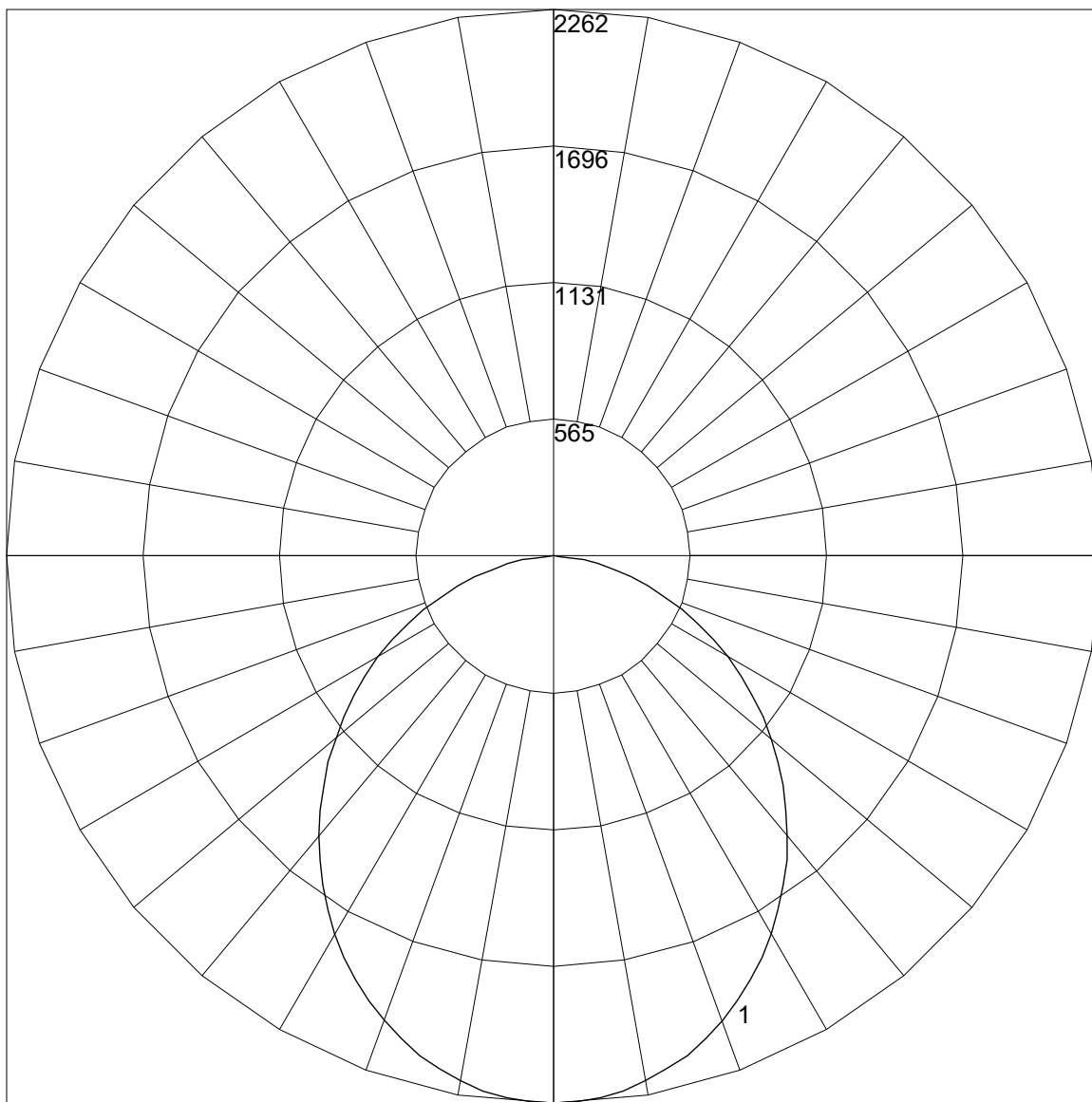
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 2261.976 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)