

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-V-8TW-ITL91549.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91549.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/01/19
[ISSUEDATE]04/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RSE-3x3-V-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com
for lumen adjustment factors for other CCT's & CRI's
[INPUT_ELECTRICAL]120.0 VOLTS, 90.3 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 95.3 WATTS
[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
[ABSOLUTE LUMENS]10791

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	90.3
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	4498	4471	4498
55	4146	4119	4143
65	3715	3679	3712
75	3048	3018	3058
85	2016	1987	2074

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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	4234	4234	4234	4234	4234
2.5	4229	4228	4226	4227	4230
5.0	4208	4206	4204	4207	4209
7.5	4174	4174	4170	4173	4174
10.0	4130	4128	4125	4128	4128
12.5	4072	4068	4067	4067	4071
15.0	4001	3998	3995	3998	4002
17.5	3921	3919	3915	3919	3921
20.0	3831	3829	3824	3827	3828
22.5	3732	3724	3725	3723	3729
25.0	3624	3613	3612	3615	3622
27.5	3498	3496	3490	3495	3505
30.0	3374	3373	3366	3372	3378
32.5	3244	3242	3236	3237	3244
35.0	3110	3098	3098	3099	3110
37.5	2969	2958	2954	2959	2969
40.0	2819	2810	2803	2809	2819
42.5	2665	2660	2654	2659	2672
45.0	2516	2504	2501	2506	2516
47.5	2358	2348	2348	2351	2363
50.0	2204	2194	2184	2191	2203
52.5	2043	2035	2025	2036	2048
55.0	1881	1873	1869	1877	1880
57.5	1726	1712	1710	1715	1725
60.0	1563	1555	1543	1551	1568
62.5	1399	1391	1386	1392	1405
65.0	1242	1236	1230	1237	1241
67.5	1085	1078	1073	1078	1080
70.0	930	920	918	917	926
72.5	774	772	761	767	776
75.0	624	623	618	624	626
77.5	487	481	483	482	489
80.0	361	356	353	357	357
82.5	247	240	240	239	243
85.0	139	139	137	140	143
87.5	51	54	54	53	54
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1525.89	N.A.	14.10
0-30	3190.24	N.A.	29.60
0-40	5129.54	N.A.	47.50
0-60	8739.67	N.A.	81.00
0-80	10625.04	N.A.	98.50
0-90	10791.42	N.A.	100.00
10-90	10392.41	N.A.	96.30
20-40	3603.65	N.A.	33.40
20-50	5537.25	N.A.	51.30
40-70	4833.00	N.A.	44.80
60-80	1885.37	N.A.	17.50
70-80	662.50	N.A.	6.10
80-90	166.38	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	10791.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	399.01
10-20	1126.88
20-30	1664.35
30-40	1939.3
40-50	1933.6
50-60	1676.53
60-70	1222.87
70-80	662.50
80-90	166.38
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

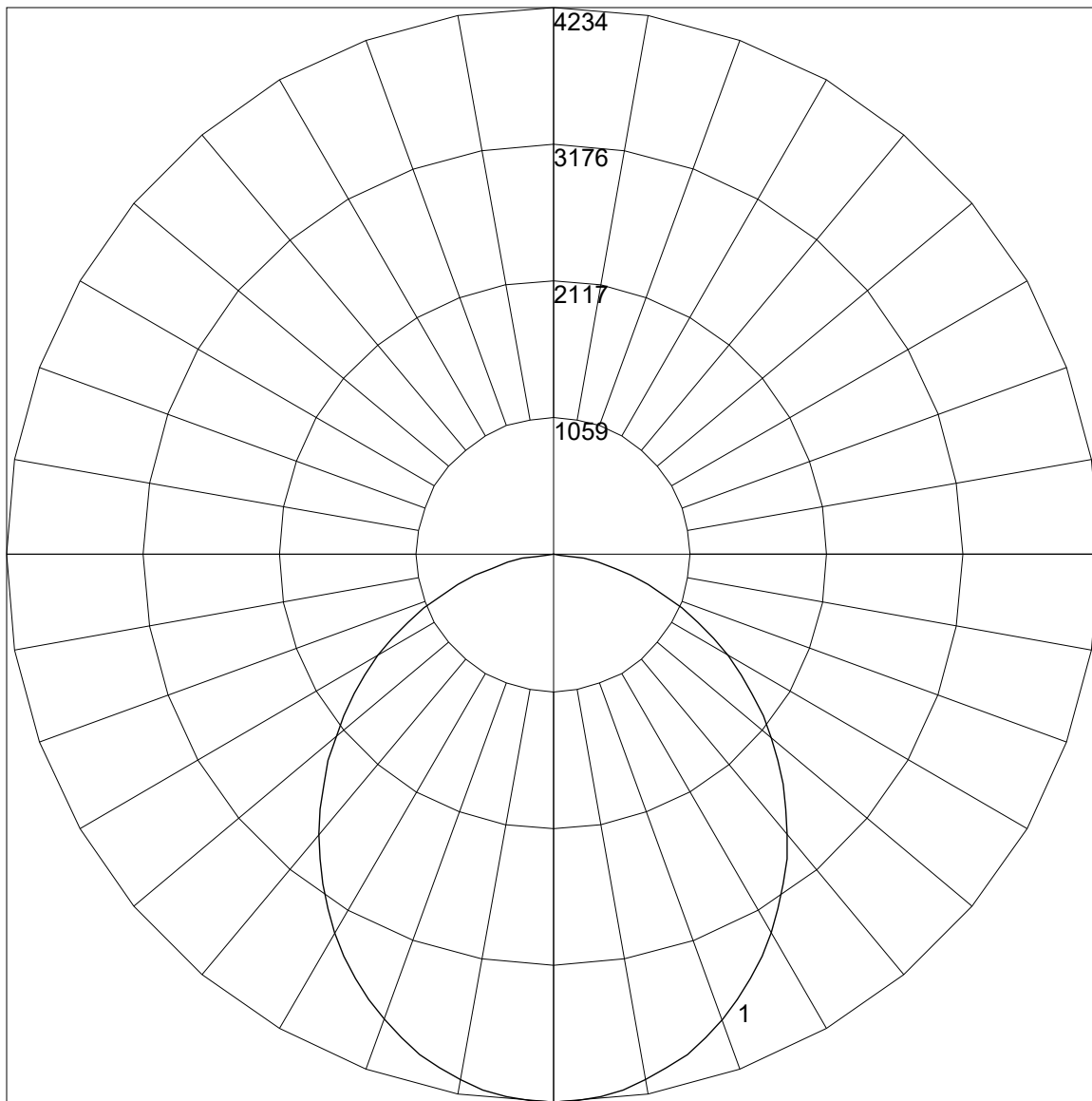
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4234 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)