

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-4X4-V-8TW-ITL91550.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91550.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]02/27/19
[ISSUE DATE]04/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RSE-4x4-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 & C
[_INPUT_ELECTRICAL]120.0 VOLTS, 156.8 WATTS
[_INPUT_ELECTRICAL]277.0 VOLTS, 160.7 WATTS
[_ABSOLUTE LUMENS]19412
[OTHER]see www.finelite.com for source file ITL91550. 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	19412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	156.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	3.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4486	4473	4478
55	4174	4159	4164
65	3754	3747	3757
75	3123	3096	3090
85	2003	2011	2011

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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	7466	7466	7466	7466	7466
2.5	7451	7459	7456	7459	7451
5.0	7416	7426	7422	7424	7418
7.5	7361	7371	7366	7369	7361
10.0	7285	7293	7288	7294	7286
12.5	7191	7196	7190	7197	7187
15.0	7070	7079	7075	7074	7073
17.5	6936	6941	6938	6940	6940
20.0	6783	6790	6781	6789	6783
22.5	6615	6615	6612	6618	6610
25.0	6431	6431	6424	6431	6427
27.5	6224	6234	6227	6224	6231
30.0	6012	6010	6007	6014	6021
32.5	5789	5783	5779	5786	5780
35.0	5556	5549	5542	5554	5549
37.5	5304	5308	5301	5297	5308
40.0	5043	5042	5046	5047	5048
42.5	4787	4786	4780	4785	4791
45.0	4525	4518	4512	4522	4517
47.5	4245	4240	4240	4244	4250
50.0	3965	3964	3958	3963	3979
52.5	3692	3691	3685	3689	3695
55.0	3415	3399	3403	3401	3407
57.5	3126	3122	3109	3122	3129
60.0	2834	2837	2829	2824	2849
62.5	2554	2539	2539	2543	2545
65.0	2263	2257	2259	2261	2265
67.5	1985	1972	1968	1979	1976
70.0	1698	1690	1684	1684	1701
72.5	1417	1418	1412	1407	1418
75.0	1153	1148	1143	1145	1141
77.5	902	888	888	891	888
80.0	659	655	645	650	653
82.5	440	439	436	438	440
85.0	249	255	250	252	250
87.5	99	99	101	100	101
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2698.63	N.A.	13.90
0-30	5658.6	N.A.	29.20
0-40	9127.66	N.A.	47.00
0-60	15654.34	N.A.	80.60
0-80	19108.12	N.A.	98.40
0-90	19411.54	N.A.	100.00
10-90	18707.25	N.A.	96.40
20-40	6429.02	N.A.	33.10
20-50	9912.44	N.A.	51.10
40-70	8762.52	N.A.	45.10
60-80	3453.77	N.A.	17.80
70-80	1217.94	N.A.	6.30
80-90	303.42	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	19411.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	704.29
10-20	1994.34
20-30	2959.97
30-40	3469.05
40-50	3483.41
50-60	3043.28
60-70	2235.83
70-80	1217.94
80-90	303.42
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

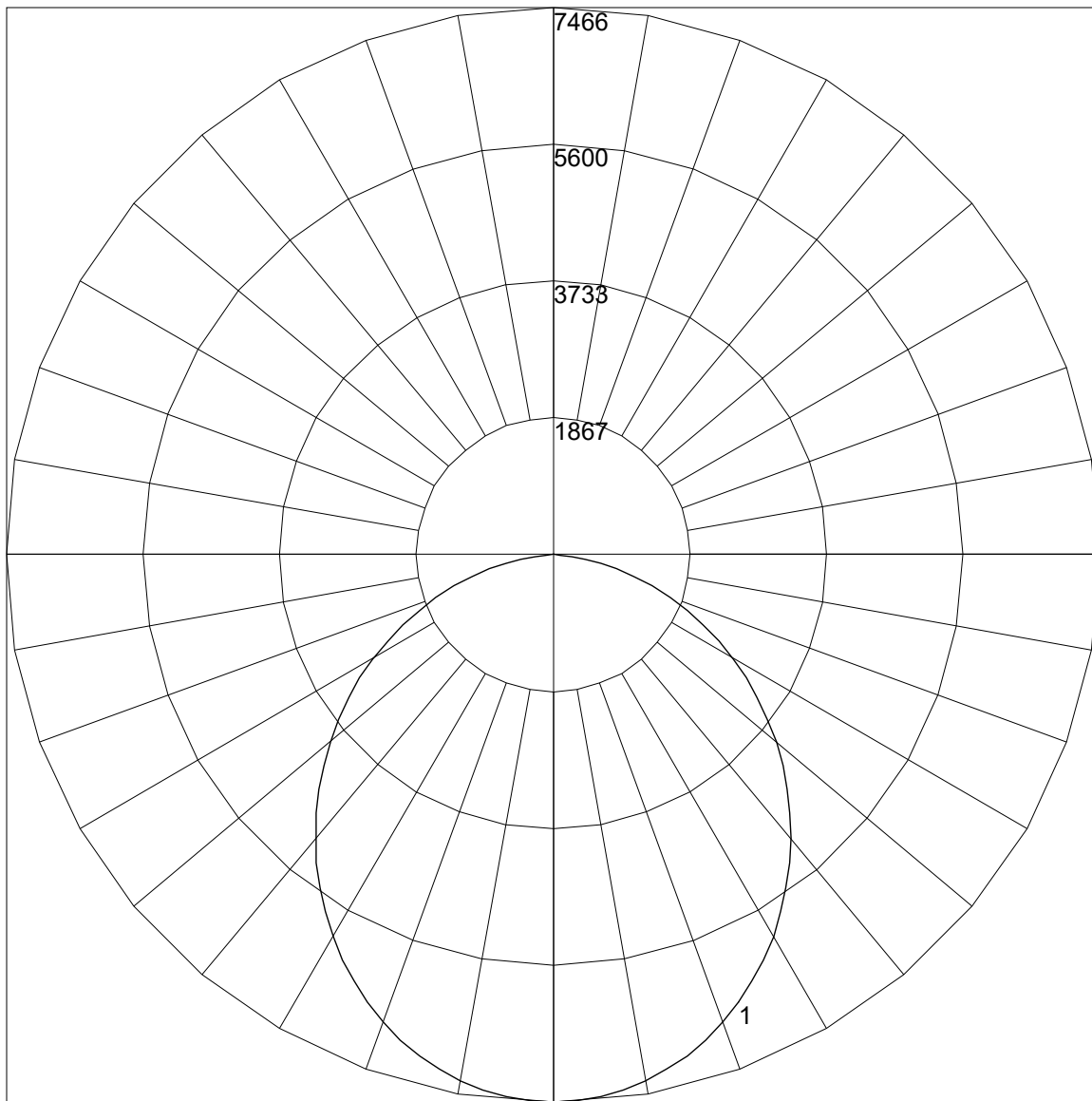
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 7466 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)