

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-LED-RG-OA-2X2-V-8TW-ITL89598.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89598.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/28/17
[ISSUEDATE]05/02/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-LED-OA-2X2-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, 62.3 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 59.6 WATTS
[ABSOLUTE]LUMENS]6671
[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	6671
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	62.3
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	6425	6367	6442
55	5956	5869	5976
65	5396	5264	5389
75	4501	4366	4524
85	3191	2956	3157

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPT-LED-RG-OA-2X2-V-8TW-ITL89598.900.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2609	2609	2609	2609	2609
2.5	2604	2604	2605	2605	2606
5.0	2592	2591	2592	2593	2593
7.5	2570	2570	2570	2572	2572
10.0	2542	2540	2541	2542	2543
12.5	2506	2503	2504	2507	2508
15.0	2463	2460	2460	2464	2465
17.5	2413	2409	2409	2414	2415
20.0	2357	2352	2351	2356	2359
22.5	2296	2290	2288	2294	2298
25.0	2228	2222	2220	2226	2231
27.5	2156	2149	2147	2154	2159
30.0	2079	2072	2069	2077	2081
32.5	1999	1990	1987	1996	2002
35.0	1915	1906	1903	1912	1918
37.5	1828	1818	1815	1824	1831
40.0	1738	1728	1725	1735	1741
42.5	1647	1636	1632	1642	1650
45.0	1552	1542	1538	1548	1556
47.5	1458	1446	1442	1453	1461
50.0	1366	1349	1345	1356	1365
52.5	1264	1252	1248	1259	1268
55.0	1167	1154	1150	1161	1171
57.5	1069	1057	1053	1064	1073
60.0	975	960	955	966	975
62.5	872	862	857	868	876
65.0	779	765	760	771	778
67.5	677	668	663	674	681
70.0	582	570	568	578	585
72.5	488	477	476	485	491
75.0	398	387	386	394	400
77.5	312	302	301	308	314
80.0	233	223	223	229	234
82.5	160	152	150	158	163
85.0	95	89	88	93	94
87.5	38	36	36	39	37
90.0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPT-LED-RG-OA-2X2-V-8TW-ITL89598.900.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	939.49	N.A.	14.10
0-30	1963.59	N.A.	29.40
0-40	3157.3	N.A.	47.30
0-60	5385.68	N.A.	80.70
0-80	6562.75	N.A.	98.40
0-90	6670.78	N.A.	100.00
10-90	6424.97	N.A.	96.30
20-40	2217.81	N.A.	33.20
20-50	3409.97	N.A.	51.10
40-70	2988.83	N.A.	44.80
60-80	1177.07	N.A.	17.60
70-80	416.62	N.A.	6.20
80-90	108.03	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	6670.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	245.81
10-20	693.67
20-30	1024.1
30-40	1193.71
40-50	1192.16
50-60	1036.23
60-70	760.45
70-80	416.62
80-90	108.03
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

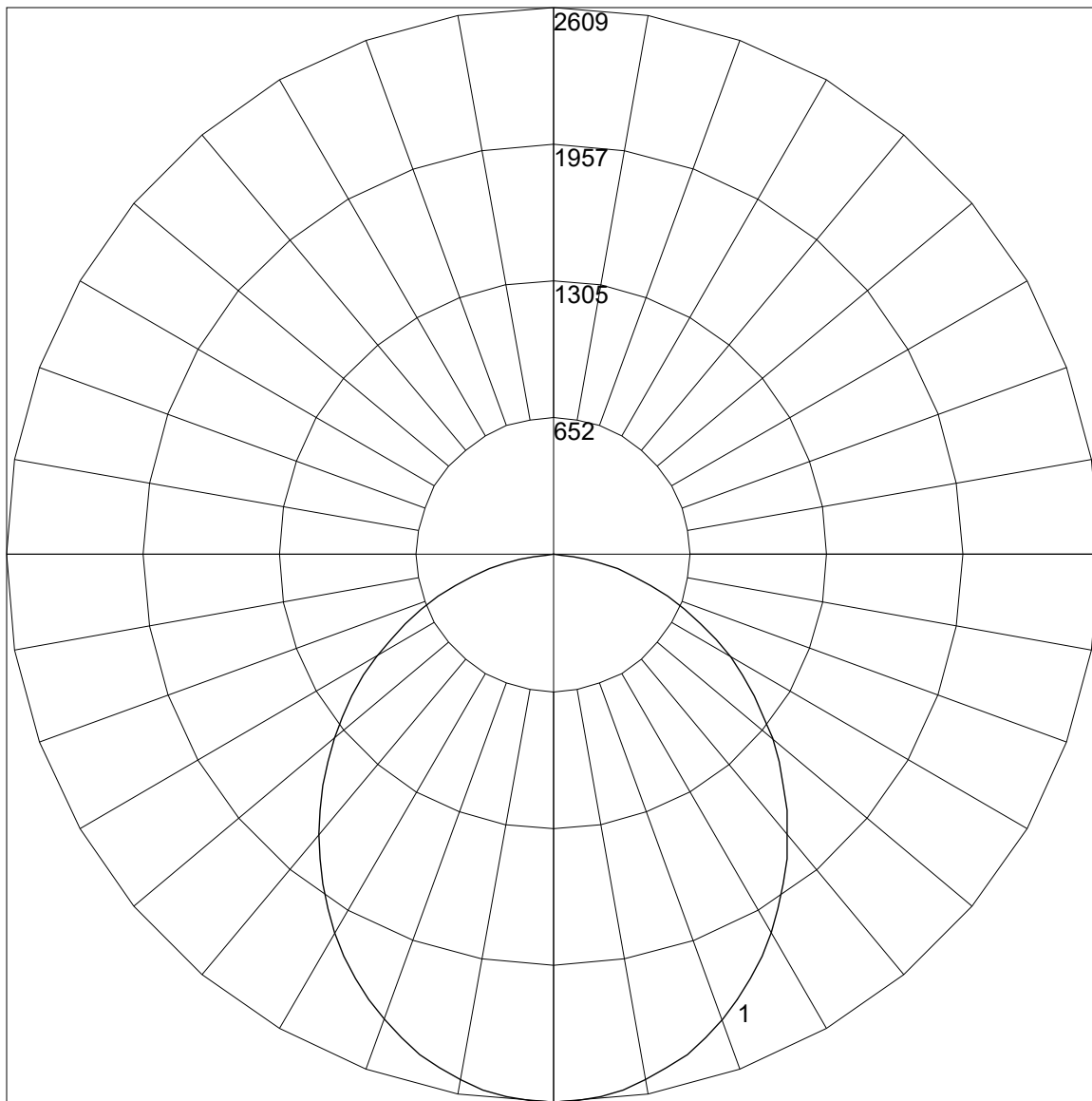
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPT-LED-RG-OA-2X2-V-8TW-ITL89598.900.IES

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 = 2609 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)