

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 : HPR-LED-EP-ANR-2X4-DCO-B-8-TW-ITL85152.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85152.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/28/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-EP-ANR-2X4-DCO-B-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 38.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 40.0 WATTS

[ABSOLUTE]LUMENS]4586

[OTHER]see www.finelite.com for source file ITL85152. 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	4586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	38.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2334	2362	2383
55	2120	2123	2127
65	1867	1847	1817
75	1573	1500	1443
85	1207	990	893

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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	1798.054	1798.054	1798.054	1798.054	1798.054
2.5	1796.015	1796.015	1796.015	1796.015	1796.015
5.0	1789.900	1789.220	1789.900	1789.900	1789.900
7.5	1778.348	1778.348	1778.348	1778.348	1779.027
10.0	1759.321	1760.000	1763.398	1763.398	1763.398
12.5	1738.255	1738.934	1743.691	1744.371	1745.050
15.0	1711.753	1711.753	1718.548	1719.907	1719.907
17.5	1679.135	1681.174	1687.290	1690.008	1691.367
20.0	1641.761	1645.158	1651.954	1655.351	1658.070
22.5	1600.988	1605.066	1612.541	1615.938	1619.336
25.0	1555.460	1558.857	1567.012	1573.127	1575.166
27.5	1505.174	1509.251	1519.444	1524.880	1528.278
30.0	1452.849	1455.568	1466.440	1473.236	1475.954
32.5	1395.089	1398.487	1409.359	1416.834	1420.232
35.0	1333.931	1337.328	1349.560	1357.035	1361.112
37.5	1270.054	1274.131	1285.683	1293.158	1297.915
40.0	1203.459	1207.537	1218.409	1226.564	1229.961
42.5	1135.506	1139.583	1149.776	1157.251	1160.649
45.0	1066.193	1068.911	1079.104	1085.900	1088.618
47.5	996.201	997.560	1006.394	1012.510	1013.869
50.0	926.209	925.529	933.683	939.120	939.120
52.5	856.216	853.498	860.293	865.050	863.691
55.0	785.544	783.506	786.903	789.622	788.263
57.5	714.873	712.154	713.514	715.552	713.514
60.0	645.560	640.803	641.483	641.483	639.444
62.5	576.927	572.849	574.209	570.811	566.734
65.0	509.653	505.575	504.216	500.139	496.062
67.5	445.097	439.660	436.942	431.506	430.826
70.0	381.900	375.784	371.707	365.591	364.232
72.5	320.741	313.946	309.869	303.073	301.035
75.0	262.981	256.185	250.749	243.274	241.236
77.5	207.938	201.822	195.707	188.232	186.193
80.0	156.973	150.857	144.741	136.587	134.548
82.5	110.764	104.649	98.533	89.019	86.301
85.0	67.954	63.197	55.722	49.606	50.286
87.5	29.220	26.502	23.784	23.104	23.104
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X4-DCO-B-8-TW-ITL85152.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	653.85	N.A.	14.30
0-30	1374.82	N.A.	30.00
0-40	2216.92	N.A.	48.30
0-60	3751.22	N.A.	81.80
0-80	4517.69	N.A.	98.50
0-90	4586.16	N.A.	100.00
10-90	4416.2	N.A.	96.30
20-40	1563.08	N.A.	34.10
20-50	2393.93	N.A.	52.20
40-70	2033.53	N.A.	44.30
60-80	766.47	N.A.	16.70
70-80	267.23	N.A.	5.80
80-90	68.47	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	4586.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.96
10-20	483.89
20-30	720.98
30-40	842.10
40-50	830.85
50-60	703.44
60-70	499.24
70-80	267.23
80-90	68.47
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

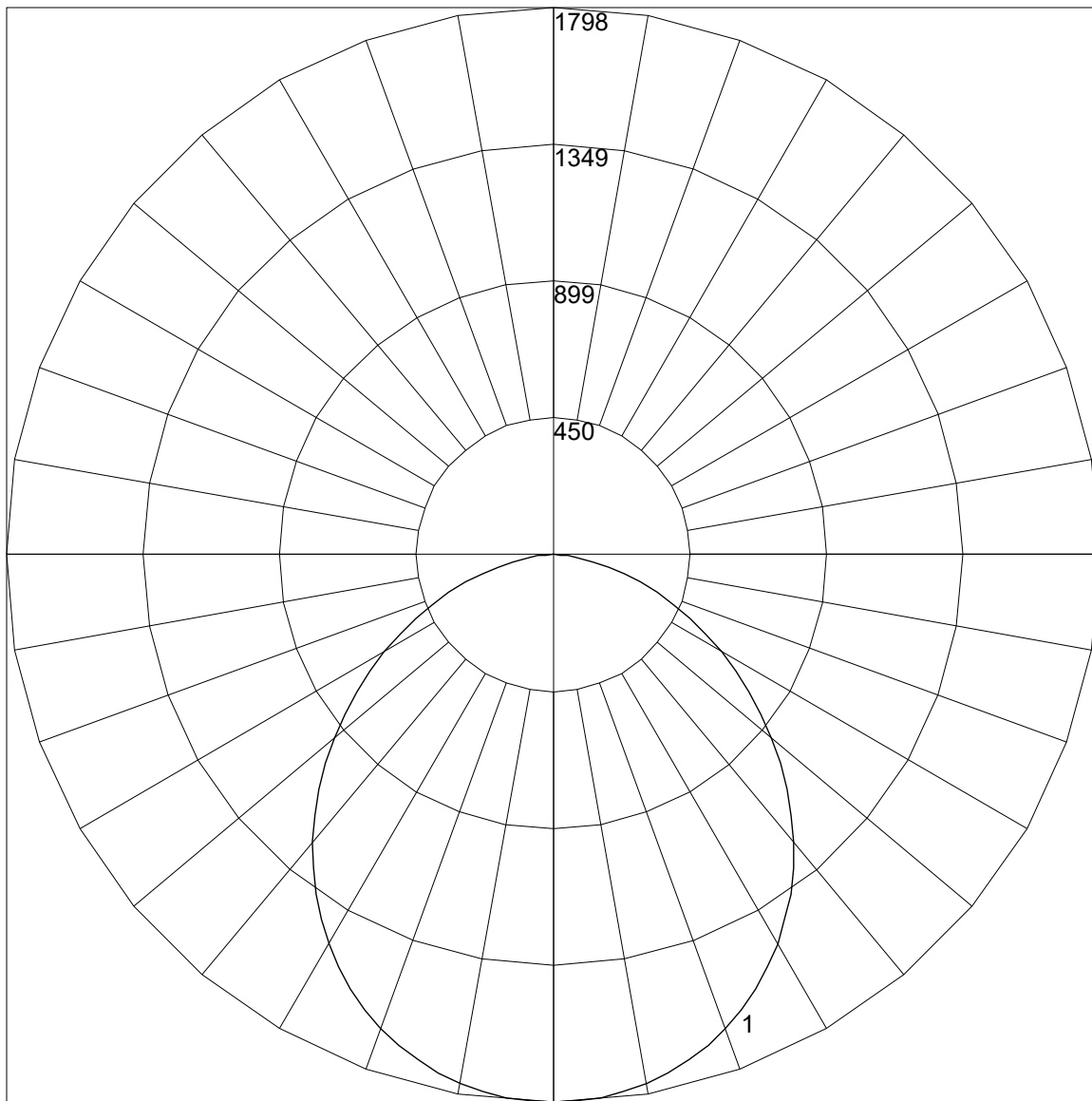
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1798.054 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)