

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-A-1X4-DCO-B-8-TW-ITL85141.904.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85141.904 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/18/15
[ISSUE DATE]04/20/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-A-1X4-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, 40.8 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.9 WATTS
[ABSOLUTE LUMENS]3985
[OTHER]see www.finelite.com for source file ITL85141. 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	3985
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	40.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4690	4572	4409
55	4265	4065	3865
65	3796	3532	3236
75	3213	2837	2474
85	2595	1517	1198

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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	1625	1625	1625	1625	1625
2.5	1624	1624	1625	1624	1624
5.0	1616	1617	1618	1618	1618
7.5	1605	1606	1608	1608	1608
10.0	1590	1588	1593	1594	1591
12.5	1568	1567	1573	1575	1570
15.0	1543	1540	1549	1549	1545
17.5	1512	1508	1519	1518	1512
20.0	1478	1474	1483	1480	1475
22.5	1442	1436	1443	1440	1432
25.0	1400	1393	1399	1393	1386
27.5	1353	1346	1352	1343	1333
30.0	1304	1297	1299	1288	1277
32.5	1250	1244	1243	1229	1218
35.0	1194	1189	1184	1168	1156
37.5	1137	1131	1123	1104	1092
40.0	1077	1071	1061	1039	1028
42.5	1015	1010	995	973	961
45.0	953	946	929	907	896
47.5	891	885	865	840	829
50.0	828	822	800	775	763
52.5	766	760	736	710	702
55.0	703	695	670	646	637
57.5	641	633	610	584	573
60.0	581	572	548	522	511
62.5	520	512	488	460	451
65.0	461	453	429	401	393
67.5	403	396	372	344	337
70.0	346	340	315	290	283
72.5	291	286	262	239	232
75.0	239	234	211	190	184
77.5	190	185	163	145	138
80.0	147	138	117	100	94
82.5	104	94	74	62	57
85.0	65	55	38	32	30
87.5	29	18	13	12	11
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	588.89	N.A.	14.80
0-30	1230.4	N.A.	30.90
0-40	1967.09	N.A.	49.40
0-60	3282.56	N.A.	82.40
0-80	3932.1	N.A.	98.70
0-90	3985.38	N.A.	100.00
10-90	3831.79	N.A.	96.10
20-40	1378.2	N.A.	34.60
20-50	2093.32	N.A.	52.50
40-70	1739.66	N.A.	43.70
60-80	649.53	N.A.	16.30
70-80	225.34	N.A.	5.70
80-90	53.28	N.A.	1.30
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	3985.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.59
10-20	435.30
20-30	641.51
30-40	736.69
40-50	715.11
50-60	600.35
60-70	424.20
70-80	225.34
80-90	53.28
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

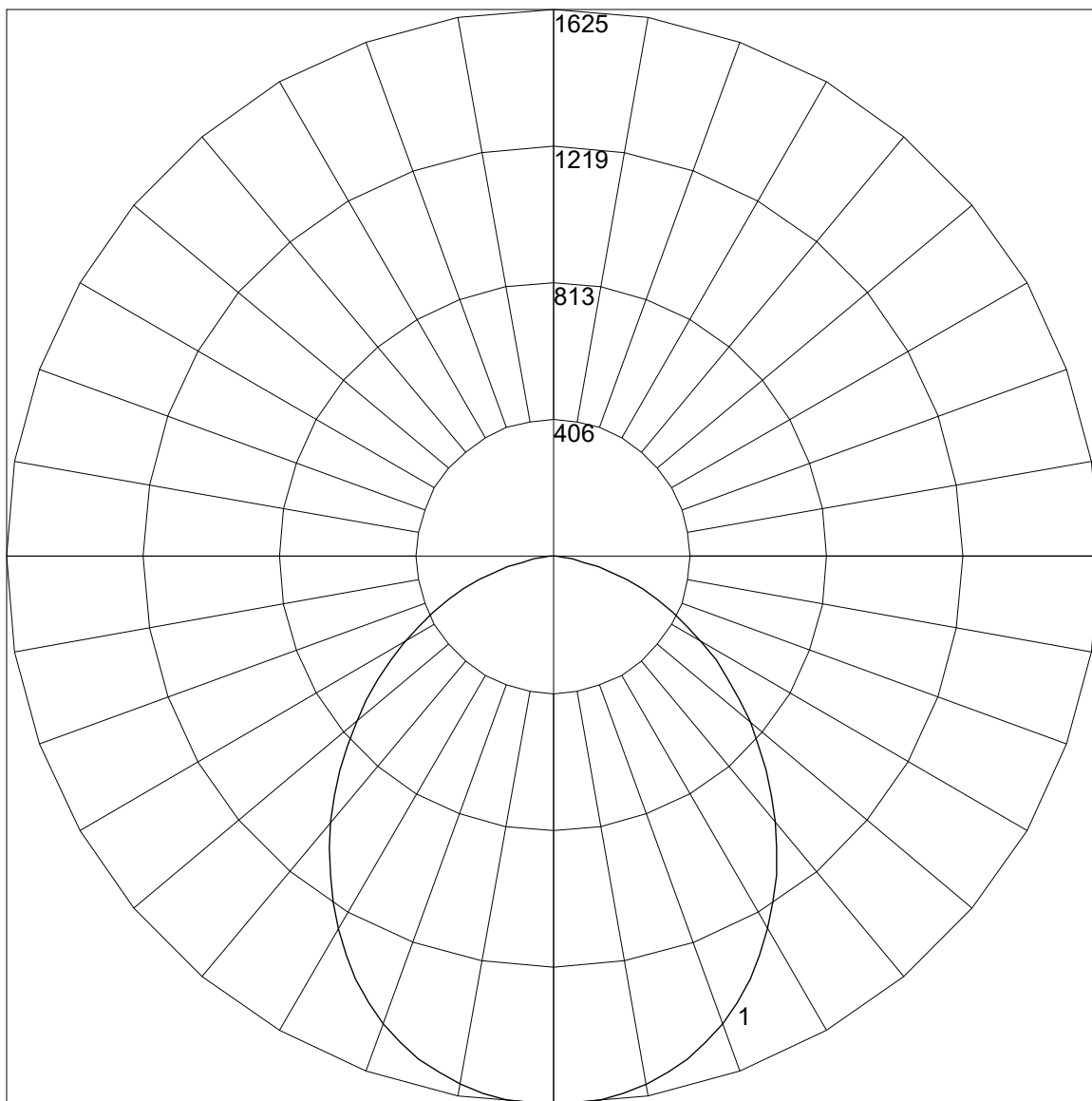
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 1625 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)