

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-ANR-1X4-DCO-B-8-TW-ITL85147.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85147.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/21/15

[ISSUEDATE]04/20/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-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, 41.8 WATTS

[OTHER]see www.finelite.com for source file ITL85147. 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]3855

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3855
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	40.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
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	4674	4384	4167
55	4205	3829	3568
65	3717	3223	2911
75	3169	2524	2081
85	2552	1754	1595

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1658	1658	1658	1658	1658
2.5	1657	1656	1655	1655	1655
5.0	1650	1648	1645	1642	1642
7.5	1637	1634	1629	1624	1624
10.0	1621	1613	1608	1602	1599
12.5	1598	1587	1582	1575	1569
15.0	1571	1556	1551	1542	1536
17.5	1540	1520	1515	1505	1497
20.0	1503	1480	1475	1461	1455
22.5	1463	1438	1429	1414	1407
25.0	1417	1390	1380	1363	1355
27.5	1368	1339	1326	1309	1299
30.0	1315	1285	1271	1253	1240
32.5	1260	1227	1211	1192	1178
35.0	1200	1168	1150	1128	1114
37.5	1140	1108	1087	1063	1049
40.0	1077	1044	1022	996	983
42.5	1015	982	957	931	917
45.0	951	917	892	864	848
47.5	886	853	826	797	781
50.0	823	791	760	732	718
52.5	760	728	696	665	653
55.0	694	664	632	601	589
57.5	633	602	570	540	530
60.0	572	542	510	480	471
62.5	511	482	450	421	412
65.0	452	425	392	364	354
67.5	394	370	337	311	300
70.0	338	316	284	259	249
72.5	287	264	235	209	201
75.0	236	215	188	161	155
77.5	188	168	142	123	121
80.0	142	125	100	94	92
82.5	103	85	70	67	66
85.0	64	49	44	42	40
87.5	29	21	18	17	15
90.0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-1X4-DCO-B-8-TW-ITL85147.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	592.46	N.A.	15.40
0-30	1227.11	N.A.	31.80
0-40	1946.26	N.A.	50.50
0-60	3203.94	N.A.	83.10
0-80	3801.31	N.A.	98.60
0-90	3855.00	N.A.	100.00
10-90	3699.13	N.A.	96.00
20-40	1353.8	N.A.	35.10
20-50	2042.75	N.A.	53.00
40-70	1651.23	N.A.	42.80
60-80	597.37	N.A.	15.50
70-80	203.82	N.A.	5.30
80-90	53.69	N.A.	1.40
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	3855.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.87
10-20	436.59
20-30	634.65
30-40	719.14
40-50	688.95
50-60	568.73
60-70	393.55
70-80	203.82
80-90	53.69
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

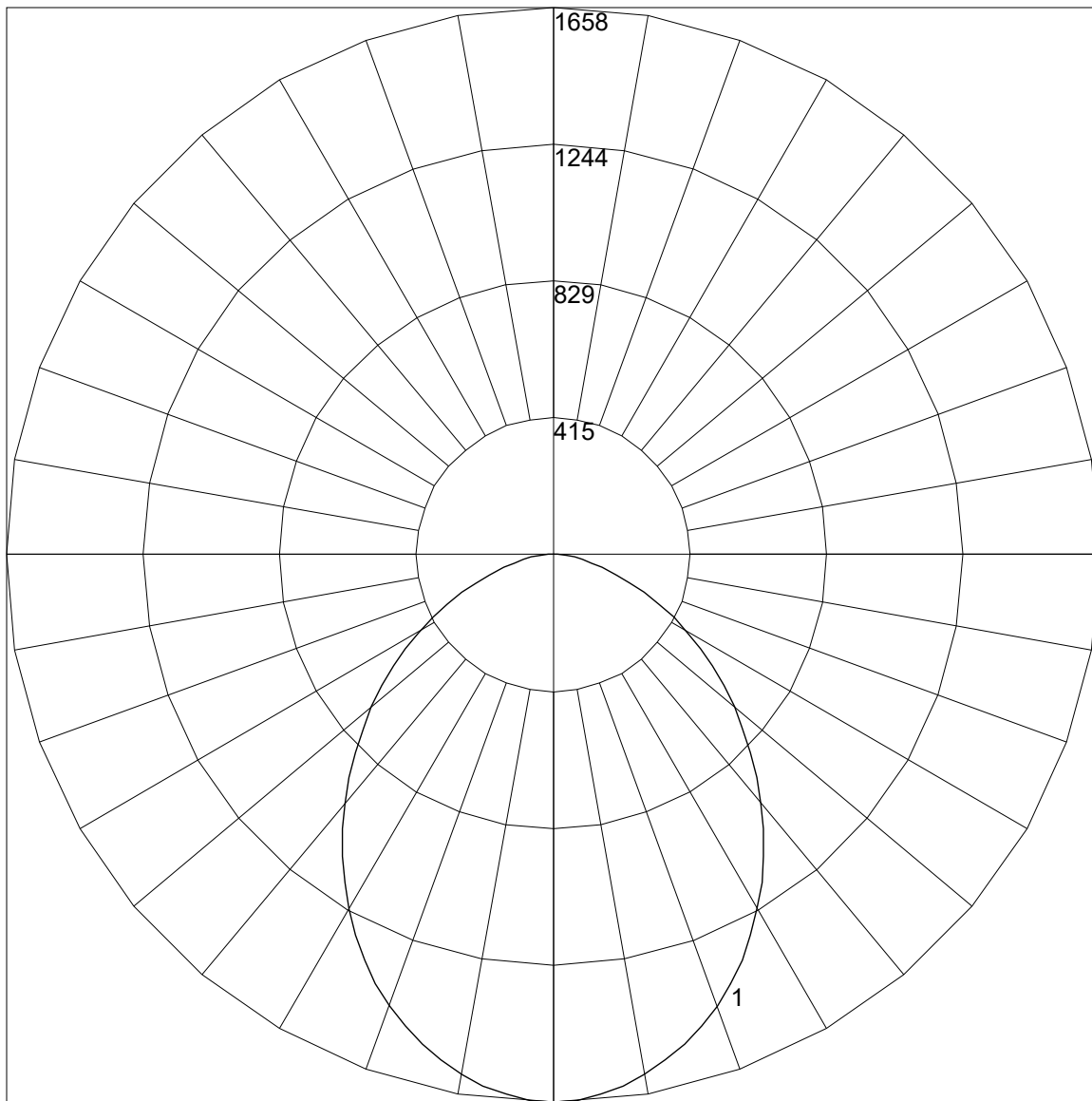
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1658 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)