

# 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-H-837-XXIC-ITL85147.202.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85147.202 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/18/15

[ISSUEDATE]05/20/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-1X4-DCO-H-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 40.2 WATTS

[ABSOLUTE]LUMENS]3751

[OTHER]see [www.finelite.com](http://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](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	3751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	40.6
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	4548	4266	4055
55	4091	3726	3472
65	3617	3136	2832
75	3083	2456	2025
85	2483	1707	1552

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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	1613.358	1613.358	1613.358	1613.358	1613.358
2.5	1612.385	1611.412	1610.439	1610.439	1610.439
5.0	1605.574	1603.627	1600.708	1597.789	1597.789
7.5	1592.924	1590.004	1585.139	1580.274	1580.274
10.0	1577.354	1569.570	1564.704	1558.866	1555.947
12.5	1554.974	1544.270	1539.405	1532.593	1526.755
15.0	1528.701	1514.105	1509.239	1500.482	1494.643
17.5	1498.535	1479.074	1474.208	1464.478	1456.693
20.0	1462.532	1440.151	1435.285	1421.662	1415.824
22.5	1423.609	1399.282	1390.524	1375.928	1369.116
25.0	1378.847	1352.574	1342.843	1326.301	1318.517
27.5	1331.166	1302.947	1290.297	1273.755	1264.024
30.0	1279.594	1250.401	1236.778	1219.263	1206.613
32.5	1226.074	1193.963	1178.394	1159.905	1146.282
35.0	1167.690	1136.551	1119.036	1097.629	1084.005
37.5	1109.305	1078.167	1057.732	1034.379	1020.756
40.0	1048.002	1015.890	994.483	969.183	956.533
42.5	987.671	955.560	931.233	905.933	892.310
45.0	925.394	892.310	867.983	840.737	825.168
47.5	862.144	830.033	803.760	775.541	759.972
50.0	800.841	769.702	739.537	712.291	698.668
52.5	739.537	708.399	677.260	647.095	635.418
55.0	675.314	646.122	614.983	584.818	573.141
57.5	615.956	585.791	554.653	525.460	515.730
60.0	556.599	527.407	496.268	467.076	458.318
62.5	497.241	469.022	437.884	409.665	400.907
65.0	439.830	413.557	381.445	354.199	344.469
67.5	383.392	360.038	327.926	302.626	291.922
70.0	328.899	307.492	276.353	252.026	242.296
72.5	279.273	256.892	228.673	203.373	195.588
75.0	229.646	209.211	182.938	156.665	150.827
77.5	182.938	163.477	138.177	119.688	117.742
80.0	138.177	121.634	97.307	91.469	89.523
82.5	100.227	82.711	68.115	65.196	64.223
85.0	62.277	47.681	42.815	40.869	38.923
87.5	28.219	20.435	17.515	16.542	14.596
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-ANR-1X4-DCO-H-837-XXIC-ITL85147.202.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	576.51	N.A.	15.40
0-30	1194.07	N.A.	31.80
0-40	1893.85	N.A.	50.50
0-60	3117.67	N.A.	83.10
0-80	3698.96	N.A.	98.60
0-90	3751.2	N.A.	100.00
10-90	3599.53	N.A.	96.00
20-40	1317.34	N.A.	35.10
20-50	1987.75	N.A.	53.00
40-70	1606.77	N.A.	42.80
60-80	581.29	N.A.	15.50
70-80	198.34	N.A.	5.30
80-90	52.24	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	3751.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	151.67
10-20	424.84
20-30	617.56
30-40	699.78
40-50	670.40
50-60	553.41
60-70	382.95
70-80	198.34
80-90	52.24
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

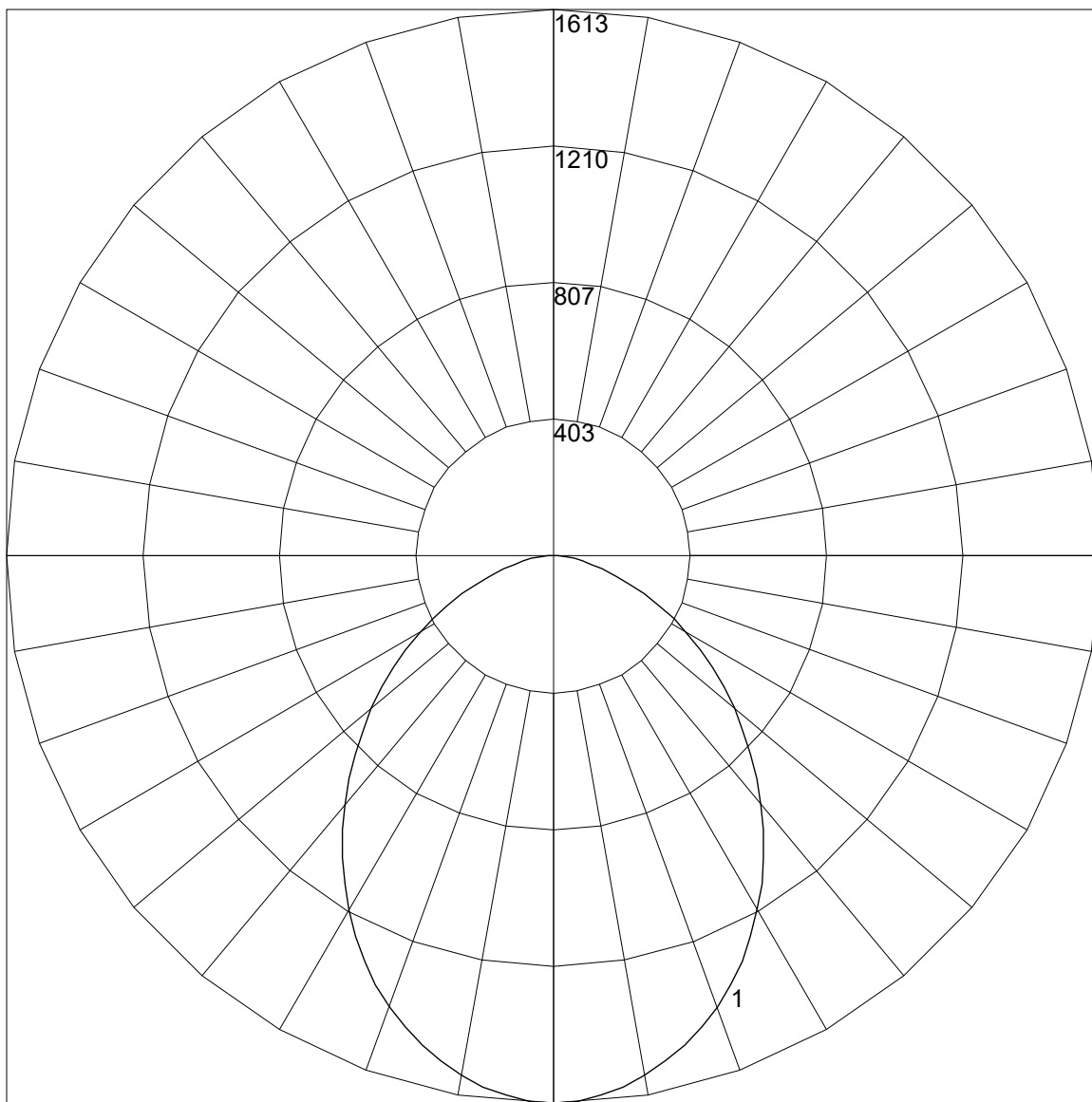
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1613.358 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)