

# 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-V-8-35-ITL85147.003.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85147.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/18/15

[ISSUEDATE]04/26/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-1X4-DCO-V-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 58.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 57.1 WATTS

[ABSOLUTE]LUMENS]5681

[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	5681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	58.1
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	6887	6460	6141
55	6196	5643	5259
65	5477	4750	4290
75	4670	3720	3067
85	3760	2585	2350

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2443.368	2443.368	2443.368	2443.368	2443.368
2.5	2441.894	2440.421	2438.947	2438.947	2438.947
5.0	2431.579	2428.631	2424.210	2419.789	2419.789
7.5	2412.421	2408.000	2400.631	2393.263	2393.263
10.0	2388.842	2377.052	2369.684	2360.842	2356.421
12.5	2354.947	2338.736	2331.368	2321.052	2312.210
15.0	2315.157	2293.052	2285.684	2272.421	2263.579
17.5	2269.473	2240.000	2232.631	2217.894	2206.105
20.0	2214.947	2181.052	2173.684	2153.052	2144.210
22.5	2156.000	2119.158	2105.894	2083.789	2073.473
25.0	2088.210	2048.421	2033.684	2008.631	1996.842
27.5	2016.000	1973.263	1954.105	1929.052	1914.315
30.0	1937.894	1893.684	1873.052	1846.526	1827.368
32.5	1856.842	1808.210	1784.631	1756.631	1736.000
35.0	1768.421	1721.263	1694.737	1662.315	1641.684
37.5	1680.000	1632.842	1601.894	1566.526	1545.894
40.0	1587.158	1538.526	1506.105	1467.789	1448.631
42.5	1495.789	1447.158	1410.316	1372.000	1351.368
45.0	1401.473	1351.368	1314.526	1273.263	1249.684
47.5	1305.684	1257.052	1217.263	1174.526	1150.947
50.0	1212.842	1165.684	1120.000	1078.737	1058.105
52.5	1120.000	1072.842	1025.684	980.000	962.316
55.0	1022.737	978.526	931.368	885.684	868.000
57.5	932.842	887.158	840.000	795.789	781.052
60.0	842.947	798.737	751.579	707.368	694.105
62.5	753.053	710.316	663.158	620.421	607.158
65.0	666.105	626.316	577.684	536.421	521.684
67.5	580.631	545.263	496.631	458.316	442.105
70.0	498.105	465.684	418.526	381.684	366.947
72.5	422.947	389.053	346.316	308.000	296.210
75.0	347.789	316.842	277.053	237.263	228.421
77.5	277.053	247.579	209.263	181.263	178.316
80.0	209.263	184.210	147.368	138.526	135.579
82.5	151.789	125.263	103.158	98.737	97.263
85.0	94.316	72.211	64.842	61.895	58.947
87.5	42.737	30.947	26.526	25.053	22.105
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-ANR-1X4-DCO-V-8-35-ITL85147.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	873.10	N.A.	15.40
0-30	1808.38	N.A.	31.80
0-40	2868.17	N.A.	50.50
0-60	4721.59	N.A.	83.10
0-80	5601.93	N.A.	98.60
0-90	5681.05	N.A.	100.00
10-90	5451.35	N.A.	96.00
20-40	1995.07	N.A.	35.10
20-50	3010.37	N.A.	53.00
40-70	2433.39	N.A.	42.80
60-80	880.34	N.A.	15.50
70-80	300.37	N.A.	5.30
80-90	79.12	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	5681.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	229.70
10-20	643.40
20-30	935.28
30-40	1059.79
40-50	1015.3
50-60	838.13
60-70	579.96
70-80	300.37
80-90	79.12
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

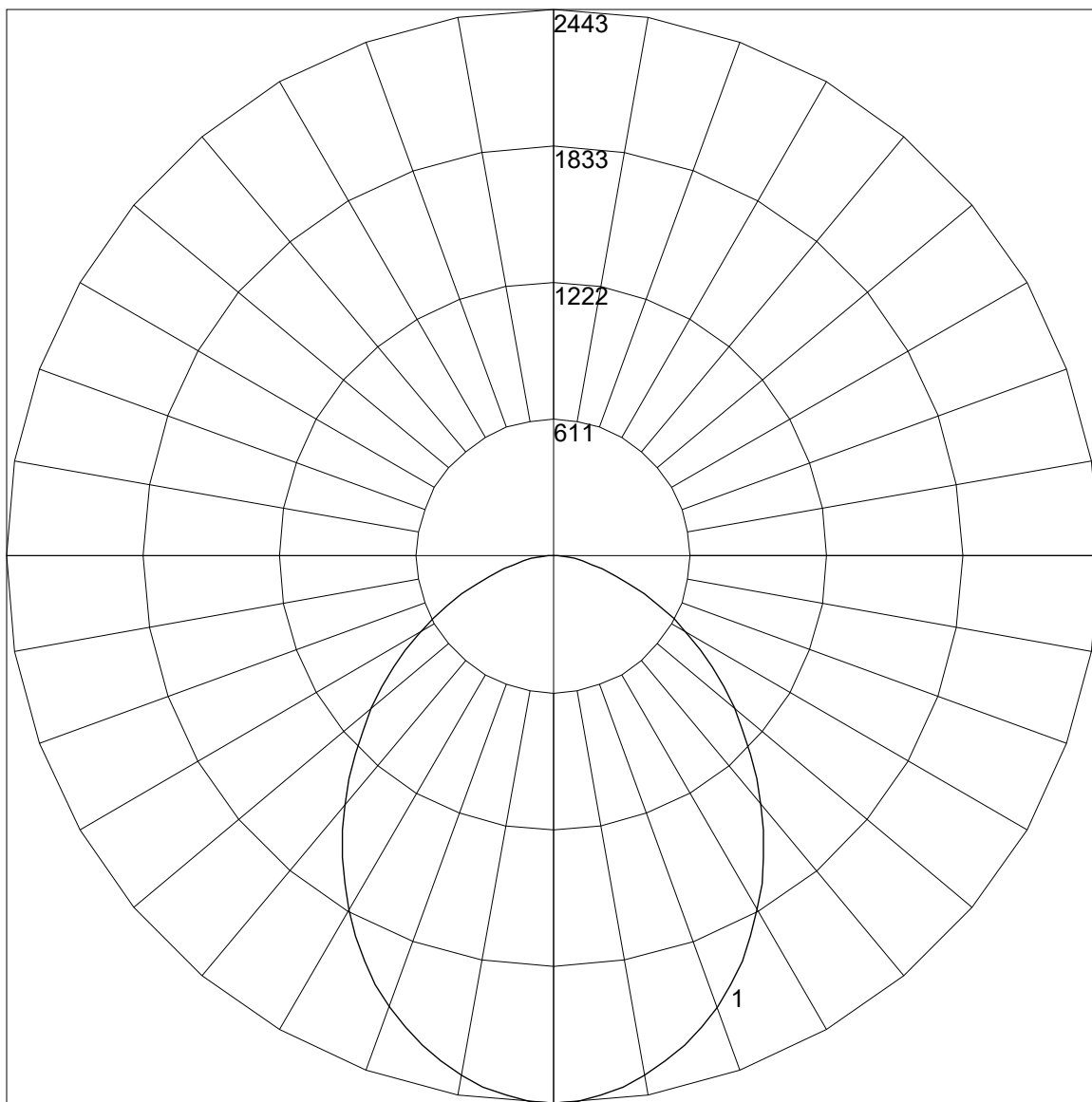
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2443.368 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)