

# 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-8-35-ITL85147.002.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85147.002 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-H-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.3 WATTS

[ABSOLUTE]LUMENS]4362

[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	4362
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	42.8
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	5289	4960	4716
55	4758	4333	4038
65	4206	3647	3294
75	3586	2856	2355
85	2888	1985	1805

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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>
<b>0.0</b>	1876.158	1876.158	1876.158	1876.158	1876.158
<b>2.5</b>	1875.026	1873.895	1872.763	1872.763	1872.763
<b>5.0</b>	1867.105	1864.842	1861.448	1858.053	1858.053
<b>7.5</b>	1852.395	1849.000	1843.342	1837.684	1837.684
<b>10.0</b>	1834.290	1825.237	1819.579	1812.790	1809.395
<b>12.5</b>	1808.263	1795.816	1790.158	1782.237	1775.448
<b>15.0</b>	1777.711	1760.737	1755.079	1744.895	1738.105
<b>17.5</b>	1742.632	1720.000	1714.342	1703.026	1693.974
<b>20.0</b>	1700.763	1674.737	1669.079	1653.237	1646.448
<b>22.5</b>	1655.500	1627.211	1617.026	1600.053	1592.132
<b>25.0</b>	1603.448	1572.895	1561.579	1542.342	1533.290
<b>27.5</b>	1548.000	1515.184	1500.474	1481.237	1469.921
<b>30.0</b>	1488.026	1454.079	1438.237	1417.869	1403.158
<b>32.5</b>	1425.790	1388.447	1370.342	1348.842	1333.000
<b>35.0</b>	1357.895	1321.684	1301.316	1276.421	1260.579
<b>37.5</b>	1290.000	1253.790	1230.026	1202.869	1187.026
<b>40.0</b>	1218.711	1181.369	1156.474	1127.053	1112.342
<b>42.5</b>	1148.553	1111.211	1082.921	1053.500	1037.658
<b>45.0</b>	1076.132	1037.658	1009.369	977.684	959.579
<b>47.5</b>	1002.579	965.237	934.684	901.868	883.763
<b>50.0</b>	931.290	895.079	860.000	828.316	812.474
<b>52.5</b>	860.000	823.790	787.579	752.500	738.921
<b>55.0</b>	785.316	751.368	715.158	680.079	666.500
<b>57.5</b>	716.290	681.211	645.000	611.053	599.737
<b>60.0</b>	647.263	613.316	577.105	543.158	532.974
<b>62.5</b>	578.237	545.421	509.211	476.395	466.211
<b>65.0</b>	511.474	480.921	443.579	411.895	400.579
<b>67.5</b>	445.842	418.684	381.342	351.921	339.474
<b>70.0</b>	382.474	357.579	321.368	293.079	281.763
<b>72.5</b>	324.763	298.737	265.921	236.500	227.447
<b>75.0</b>	267.053	243.289	212.737	182.184	175.395
<b>77.5</b>	212.737	190.105	160.684	139.184	136.921
<b>80.0</b>	160.684	141.447	113.158	106.368	104.105
<b>82.5</b>	116.553	96.184	79.211	75.816	74.684
<b>85.0</b>	72.421	55.447	49.789	47.526	45.263
<b>87.5</b>	32.816	23.763	20.368	19.237	16.974
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	670.42	N.A.	15.40
0-30	1388.58	N.A.	31.80
0-40	2202.34	N.A.	50.50
0-60	3625.51	N.A.	83.10
0-80	4301.48	N.A.	98.60
0-90	4362.24	N.A.	100.00
10-90	4185.86	N.A.	96.00
20-40	1531.93	N.A.	35.10
20-50	2311.53	N.A.	53.00
40-70	1868.5	N.A.	42.80
60-80	675.97	N.A.	15.50
70-80	230.64	N.A.	5.30
80-90	60.75	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	4362.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	176.38
10-20	494.04
20-30	718.16
30-40	813.77
40-50	779.61
50-60	643.56
60-70	445.33
70-80	230.64
80-90	60.75
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

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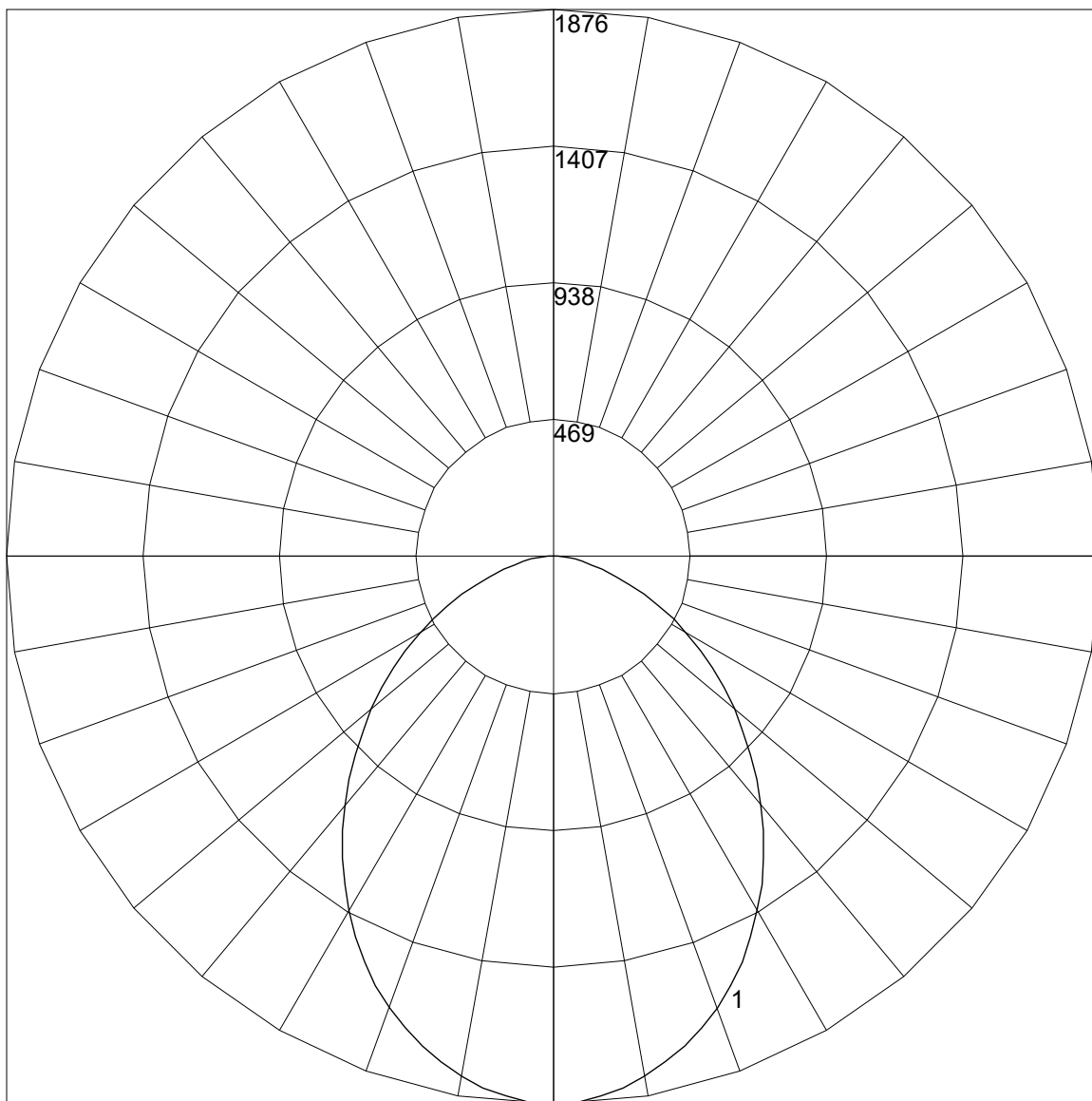
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1876.158 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)