

# 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-S-8-35-ITL85147.001.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85147.001

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/18/15

[ISSUEDATE]04/26/16

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.3 WATTS

[ABSOLUTE]LUMENS]2998

[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	2998
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	28.4
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	3635	3410	3241
55	3270	2978	2775
65	2891	2507	2264
75	2464	1963	1619
85	1985	1364	1240

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1289.556	1289.556	1289.556	1289.556	1289.556
2.5	1288.778	1288.000	1287.222	1287.222	1287.222
5.0	1283.333	1281.778	1279.444	1277.111	1277.111
7.5	1273.222	1270.889	1267.000	1263.111	1263.111
10.0	1260.778	1254.556	1250.667	1246.000	1243.667
12.5	1242.889	1234.333	1230.444	1225.000	1220.333
15.0	1221.889	1210.222	1206.333	1199.333	1194.667
17.5	1197.778	1182.222	1178.333	1170.556	1164.333
20.0	1169.000	1151.111	1147.222	1136.333	1131.667
22.5	1137.889	1118.444	1111.444	1099.778	1094.333
25.0	1102.111	1081.111	1073.333	1060.111	1053.889
27.5	1064.000	1041.444	1031.333	1018.111	1010.333
30.0	1022.778	999.444	988.556	974.556	964.444
32.5	980.000	954.333	941.889	927.111	916.222
35.0	933.333	908.444	894.444	877.333	866.444
37.5	886.667	861.778	845.444	826.778	815.889
40.0	837.667	812.000	794.889	774.667	764.556
42.5	789.444	763.778	744.333	724.111	713.222
45.0	739.667	713.222	693.778	672.000	659.556
47.5	689.111	663.444	642.444	619.889	607.444
50.0	640.111	615.222	591.111	569.333	558.444
52.5	591.111	566.222	541.333	517.222	507.889
55.0	539.778	516.444	491.556	467.444	458.111
57.5	492.333	468.222	443.333	420.000	412.222
60.0	444.889	421.556	396.667	373.333	366.333
62.5	397.444	374.889	350.000	327.444	320.444
65.0	351.556	330.556	304.889	283.111	275.333
67.5	306.444	287.778	262.111	241.889	233.333
70.0	262.889	245.778	220.889	201.444	193.667
72.5	223.222	205.333	182.778	162.556	156.333
75.0	183.556	167.222	146.222	125.222	120.556
77.5	146.222	130.667	110.444	95.667	94.111
80.0	110.444	97.222	77.778	73.111	71.556
82.5	80.111	66.111	54.444	52.111	51.333
85.0	49.778	38.111	34.222	32.667	31.111
87.5	22.556	16.333	14.000	13.222	11.667
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-ANR-1X4-DCO-S-8-35-ITL85147.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	460.80	N.A.	15.40
0-30	954.42	N.A.	31.80
0-40	1513.76	N.A.	50.50
0-60	2491.95	N.A.	83.10
0-80	2956.57	N.A.	98.60
0-90	2998.33	N.A.	100.00
10-90	2877.1	N.A.	96.00
20-40	1052.95	N.A.	35.10
20-50	1588.81	N.A.	53.00
40-70	1284.29	N.A.	42.80
60-80	464.62	N.A.	15.50
70-80	158.53	N.A.	5.30
80-90	41.76	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	2998.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.23
10-20	339.57
20-30	493.62
30-40	559.33
40-50	535.85
50-60	442.34
60-70	306.09
70-80	158.53
80-90	41.76
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

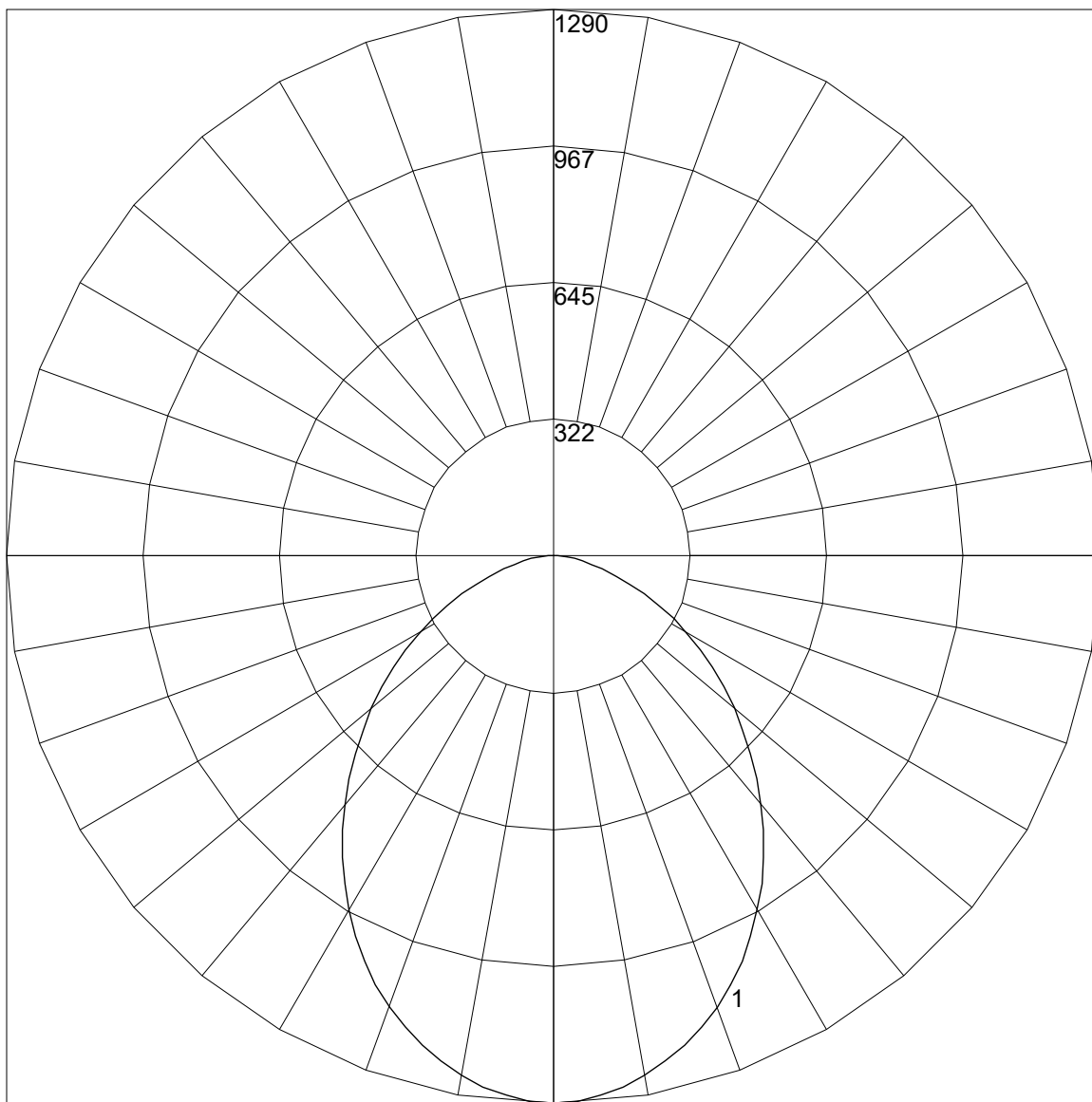
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1289.556 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)