

# 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-2X2-DCO-B-8-35-ITL85148.002.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85148.002 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/24/15  
[ISSUEDATE]04/27/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HPR-LED-ANR-2X2-DCO-B-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 37.2 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 38.2 WATTS  
[ABSOLUTE]LUMENS]4212  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85148. 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	4212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	37.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.82 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4516	4445	4479
55	4039	3958	4005
65	3517	3433	3491
75	2927	2850	2876
85	2179	2078	1825

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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	1750.036	1750.036	1750.036	1750.036	1750.036
2.5	1748.679	1748.679	1748.000	1747.321	1746.643
5.0	1740.536	1740.536	1738.500	1737.143	1736.464
7.5	1727.643	1726.286	1724.250	1720.857	1720.179
10.0	1710.679	1708.643	1703.214	1699.143	1696.429
12.5	1684.214	1681.500	1677.429	1673.357	1669.964
15.0	1654.357	1650.964	1645.536	1640.786	1637.393
17.5	1617.714	1615.000	1607.536	1603.464	1600.750
20.0	1578.357	1572.929	1566.143	1562.071	1559.357
22.5	1531.536	1526.107	1520.000	1515.929	1511.857
25.0	1482.000	1475.893	1469.107	1465.714	1463.000
27.5	1428.393	1421.607	1414.821	1412.107	1410.071
30.0	1372.750	1363.929	1357.821	1355.786	1353.750
32.5	1313.036	1302.857	1296.750	1296.750	1294.714
35.0	1249.929	1239.071	1234.321	1235.679	1233.643
37.5	1184.107	1173.929	1169.179	1169.857	1169.857
40.0	1116.929	1106.071	1102.679	1105.393	1105.393
42.5	1049.071	1038.214	1035.500	1038.893	1039.571
45.0	981.214	970.357	965.607	972.393	973.071
47.5	912.679	901.821	897.750	904.536	905.893
50.0	844.821	833.964	830.571	837.357	838.714
52.5	777.643	766.786	763.393	770.857	771.536
55.0	711.821	699.607	697.571	705.036	705.714
57.5	643.964	634.464	631.750	640.571	641.250
60.0	580.179	571.357	567.964	576.786	577.464
62.5	517.750	508.929	506.214	513.679	514.357
65.0	456.679	449.893	445.821	452.607	453.286
67.5	397.643	389.500	387.464	393.571	394.250
70.0	340.643	333.179	330.464	336.571	336.571
72.5	285.000	279.571	278.214	280.929	280.929
75.0	232.750	228.000	226.643	229.357	228.679
77.5	185.250	179.143	178.464	179.821	178.464
80.0	139.107	134.357	135.036	134.357	133.000
82.5	97.036	94.321	93.643	92.286	88.214
85.0	58.357	57.000	55.643	51.571	48.857
87.5	24.429	24.429	23.071	23.071	21.714
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-B-8-35-ITL85148.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	628.30	N.A.	14.90
0-30	1305.03	N.A.	31.00
0-40	2078.3	N.A.	49.30
0-60	3456.49	N.A.	82.10
0-80	4147.15	N.A.	98.50
0-90	4212.04	N.A.	100.00
10-90	4047.19	N.A.	96.10
20-40	1450.00	N.A.	34.40
20-50	2199.33	N.A.	52.20
40-70	1825.32	N.A.	43.30
60-80	690.66	N.A.	16.40
70-80	243.53	N.A.	5.80
80-90	64.89	N.A.	1.50
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	4212.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	164.85
10-20	463.45
20-30	676.74
30-40	773.27
40-50	749.33
50-60	628.86
60-70	447.12
70-80	243.53
80-90	64.89
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

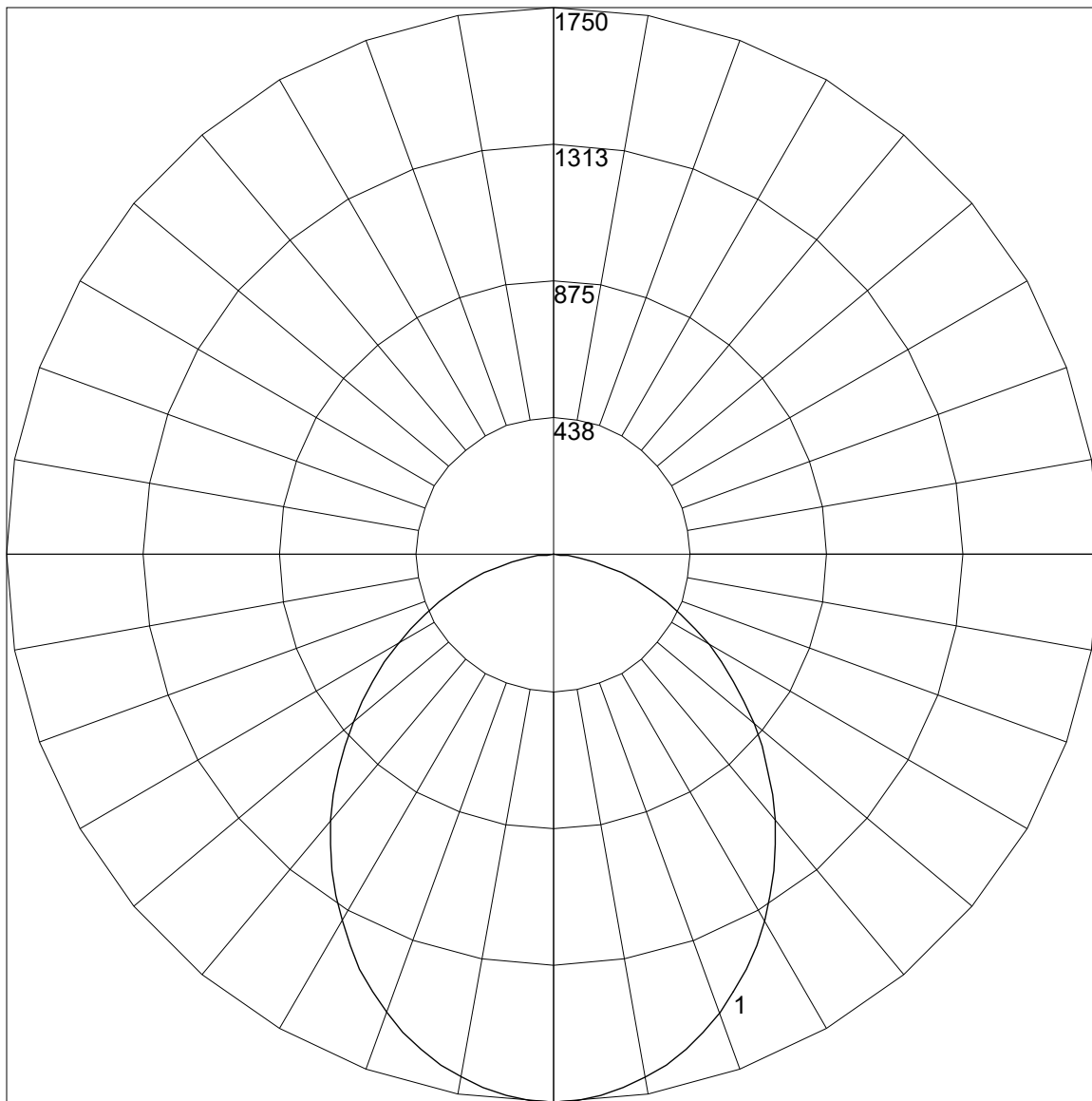
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 1750.036 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)