

# 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-2X4-DCO-B-8-35-ITL85151.002.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85151.002 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/24/15  
[ISSUEDATE]04/27/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HPR-LED-ANR-2X4-DCO-B-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 35.1 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 36.2 WATTS  
[ABSOLUTE]LUMENS]4626  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85151. 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	4626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	35.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 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	2416	2337	2310
55	2180	2076	2057
65	1911	1799	1779
75	1593	1483	1434
85	1207	1074	929

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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	1895.228	1895.228	1895.228	1895.228	1895.228
2.5	1893.869	1893.189	1892.510	1892.510	1892.510
5.0	1886.394	1884.355	1883.676	1881.637	1880.958
7.5	1874.162	1871.444	1868.046	1864.649	1863.969
10.0	1854.456	1850.378	1846.981	1842.224	1840.865
12.5	1829.992	1823.197	1820.479	1815.043	1812.324
15.0	1801.452	1793.977	1789.220	1781.066	1777.668
17.5	1767.475	1757.282	1750.487	1740.293	1738.255
20.0	1726.703	1717.189	1706.996	1695.444	1693.405
22.5	1682.533	1671.660	1659.429	1645.838	1642.440
25.0	1632.247	1619.336	1605.745	1593.514	1588.757
27.5	1581.282	1564.973	1550.023	1535.753	1530.996
30.0	1522.842	1505.174	1488.185	1475.274	1469.838
32.5	1460.324	1443.336	1422.950	1410.718	1408.680
35.0	1394.409	1376.741	1357.035	1342.765	1342.085
37.5	1325.776	1306.749	1287.043	1273.452	1272.093
40.0	1254.425	1234.718	1215.012	1203.459	1201.421
42.5	1177.637	1161.328	1141.622	1133.467	1128.031
45.0	1103.568	1086.579	1067.552	1058.718	1055.320
47.5	1028.139	1010.471	992.803	984.649	981.251
50.0	953.390	935.722	920.772	911.259	908.541
52.5	882.039	858.934	843.985	837.869	835.151
55.0	807.969	784.865	769.236	765.158	762.440
57.5	734.579	712.154	697.205	697.205	691.089
60.0	661.869	640.803	626.533	625.853	620.417
62.5	591.197	570.811	558.579	557.900	552.463
65.0	521.884	502.857	491.305	490.625	485.869
67.5	453.931	435.583	427.429	424.710	420.633
70.0	388.695	373.745	364.232	362.193	358.116
72.5	325.498	311.907	304.432	301.714	298.317
75.0	266.378	254.826	248.031	244.633	239.876
77.5	209.977	199.784	195.027	191.629	187.552
80.0	158.332	150.178	145.421	142.703	138.625
82.5	110.764	105.328	103.290	97.174	93.776
85.0	67.954	64.556	60.479	53.683	52.324
87.5	29.220	27.861	24.463	23.104	24.463
90.0	0.000	0.000	0.000	0.000	0.000

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	682.30	N.A.	14.70
0-30	1422.06	N.A.	30.70
0-40	2272.52	N.A.	49.10
0-60	3795.21	N.A.	82.00
0-80	4555.06	N.A.	98.50
0-90	4625.95	N.A.	100.00
10-90	4447.33	N.A.	96.10
20-40	1590.22	N.A.	34.40
20-50	2417.87	N.A.	52.30
40-70	2015.88	N.A.	43.60
60-80	759.84	N.A.	16.40
70-80	266.66	N.A.	5.80
80-90	70.90	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	4625.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.63
10-20	503.68
20-30	739.76
30-40	850.46
40-50	827.66
50-60	695.04
60-70	493.19
70-80	266.66
80-90	70.90
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

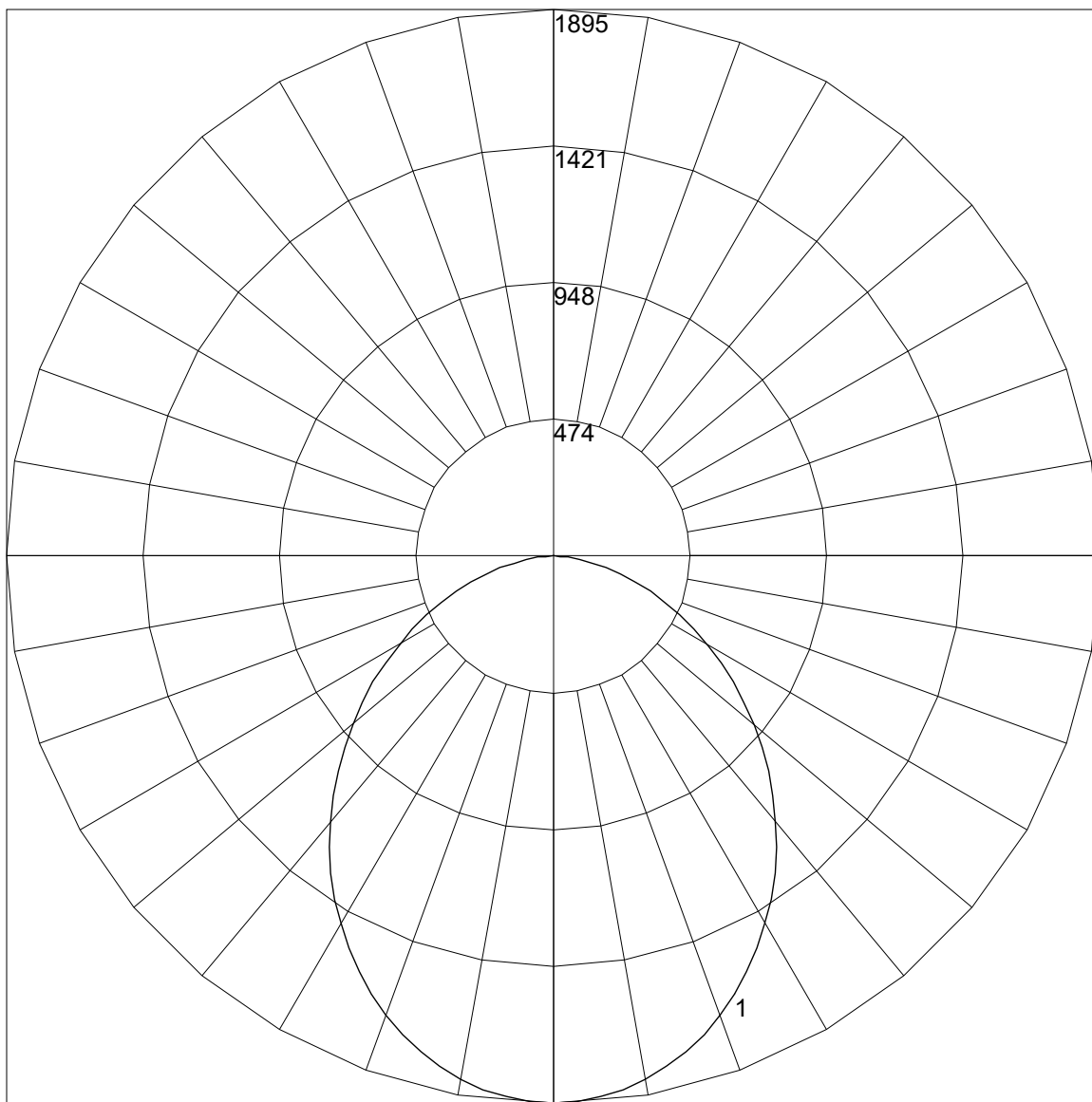
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1895.228 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)