

# 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-V-8-TW-ITL85151.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85151.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/25/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X4-DCO-V-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at [www.finelite.com](http://www.finelite.com) for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 60.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 60.0 WATTS

[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)

[\_ABSOLUTE]LUMENS]6808

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	60.5
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	3555	3439	3399
55	3208	3055	3028
65	2813	2648	2619
75	2344	2183	2111
85	1776	1581	1367

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2789	2789	2789	2789	2789
<b>2.5</b>	2787	2786	2785	2785	2785
<b>5.0</b>	2776	2773	2772	2769	2768
<b>7.5</b>	2758	2754	2749	2744	2743
<b>10.0</b>	2729	2723	2718	2711	2709
<b>12.5</b>	2693	2683	2679	2671	2667
<b>15.0</b>	2651	2640	2633	2621	2616
<b>17.5</b>	2601	2586	2576	2561	2558
<b>20.0</b>	2541	2527	2512	2495	2492
<b>22.5</b>	2476	2460	2442	2422	2417
<b>25.0</b>	2402	2383	2363	2345	2338
<b>27.5</b>	2327	2303	2281	2260	2253
<b>30.0</b>	2241	2215	2190	2171	2163
<b>32.5</b>	2149	2124	2094	2076	2073
<b>35.0</b>	2052	2026	1997	1976	1975
<b>37.5</b>	1951	1923	1894	1874	1872
<b>40.0</b>	1846	1817	1788	1771	1768
<b>42.5</b>	1733	1709	1680	1668	1660
<b>45.0</b>	1624	1599	1571	1558	1553
<b>47.5</b>	1513	1487	1461	1449	1444
<b>50.0</b>	1403	1377	1355	1341	1337
<b>52.5</b>	1298	1264	1242	1233	1229
<b>55.0</b>	1189	1155	1132	1126	1122
<b>57.5</b>	1081	1048	1026	1026	1017
<b>60.0</b>	974	943	922	921	913
<b>62.5</b>	870	840	822	821	813
<b>65.0</b>	768	740	723	722	715
<b>67.5</b>	668	641	629	625	619
<b>70.0</b>	572	550	536	533	527
<b>72.5</b>	479	459	448	444	439
<b>75.0</b>	392	375	365	360	353
<b>77.5</b>	309	294	287	282	276
<b>80.0</b>	233	221	214	210	204
<b>82.5</b>	163	155	152	143	138
<b>85.0</b>	100	95	89	79	77
<b>87.5</b>	43	41	36	34	36
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-ANR-2X4-DCO-V-8-TW-ITL85151.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1004.07	N.A.	14.70
0-30	2092.69	N.A.	30.70
0-40	3344.22	N.A.	49.10
0-60	5585.00	N.A.	82.00
0-80	6703.18	N.A.	98.50
0-90	6807.51	N.A.	100.00
10-90	6544.65	N.A.	96.10
20-40	2340.15	N.A.	34.40
20-50	3558.12	N.A.	52.30
40-70	2966.55	N.A.	43.60
60-80	1118.18	N.A.	16.40
70-80	392.41	N.A.	5.80
80-90	104.33	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	6807.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	262.86
10-20	741.21
20-30	1088.62
30-40	1251.53
40-50	1217.97
50-60	1022.81
60-70	725.77
70-80	392.41
80-90	104.33
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

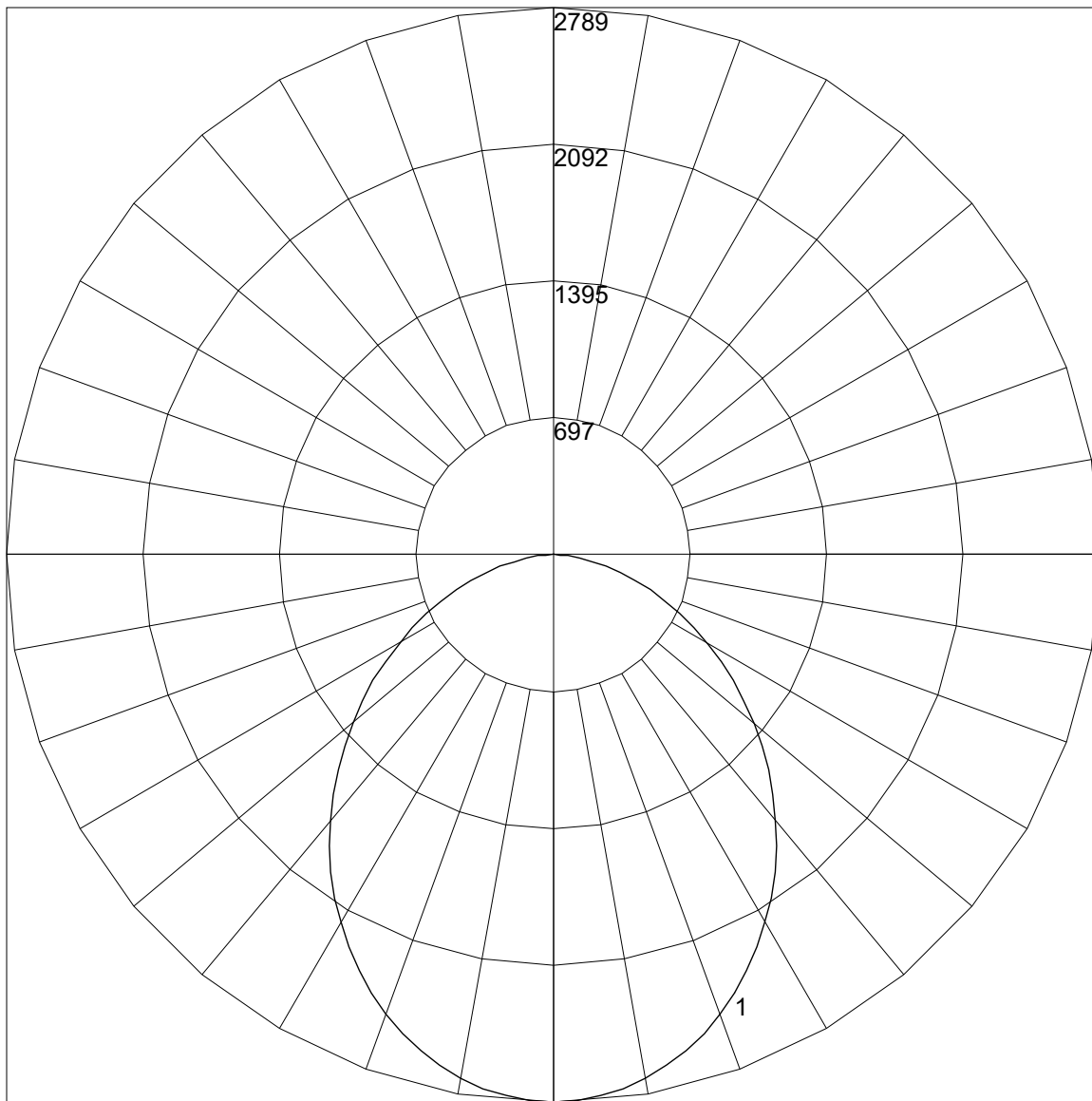
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2789 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)