

# 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-V-8-TW-ITL85148.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85148.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X2-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, 64.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 63.1 WATTS

[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)

[\_ABSOLUTE]LUMENS]6207

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6207
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	64.1
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	6656	6550	6601
55	5953	5833	5901
65	5183	5060	5145
75	4313	4200	4238
85	3212	3062	2689

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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>	2579	2579	2579	2579	2579
<b>2.5</b>	2577	2577	2576	2575	2574
<b>5.0</b>	2565	2565	2562	2560	2559
<b>7.5</b>	2546	2544	2541	2536	2535
<b>10.0</b>	2521	2518	2510	2504	2500
<b>12.5</b>	2482	2478	2472	2466	2461
<b>15.0</b>	2438	2433	2425	2418	2413
<b>17.5</b>	2384	2380	2369	2363	2359
<b>20.0</b>	2326	2318	2308	2302	2298
<b>22.5</b>	2257	2249	2240	2234	2228
<b>25.0</b>	2184	2175	2165	2160	2156
<b>27.5</b>	2105	2095	2085	2081	2078
<b>30.0</b>	2023	2010	2001	1998	1995
<b>32.5</b>	1935	1920	1911	1911	1908
<b>35.0</b>	1842	1826	1819	1821	1818
<b>37.5</b>	1745	1730	1723	1724	1724
<b>40.0</b>	1646	1630	1625	1629	1629
<b>42.5</b>	1546	1530	1526	1531	1532
<b>45.0</b>	1446	1430	1423	1433	1434
<b>47.5</b>	1345	1329	1323	1333	1335
<b>50.0</b>	1245	1229	1224	1234	1236
<b>52.5</b>	1146	1130	1125	1136	1137
<b>55.0</b>	1049	1031	1028	1039	1040
<b>57.5</b>	949	935	931	944	945
<b>60.0</b>	855	842	837	850	851
<b>62.5</b>	763	750	746	757	758
<b>65.0</b>	673	663	657	667	668
<b>67.5</b>	586	574	571	580	581
<b>70.0</b>	502	491	487	496	496
<b>72.5</b>	420	412	410	414	414
<b>75.0</b>	343	336	334	338	337
<b>77.5</b>	273	264	263	265	263
<b>80.0</b>	205	198	199	198	196
<b>82.5</b>	143	139	138	136	130
<b>85.0</b>	86	84	82	76	72
<b>87.5</b>	36	36	34	34	32
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-V-8-TW-ITL85148.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	925.91	N.A.	14.90
0-30	1923.21	N.A.	31.00
0-40	3062.76	N.A.	49.30
0-60	5093.78	N.A.	82.10
0-80	6111.59	N.A.	98.50
0-90	6207.22	N.A.	100.00
10-90	5964.28	N.A.	96.10
20-40	2136.84	N.A.	34.40
20-50	3241.12	N.A.	52.20
40-70	2689.94	N.A.	43.30
60-80	1017.81	N.A.	16.40
70-80	358.89	N.A.	5.80
80-90	95.63	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	6207.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	242.94
10-20	682.98
20-30	997.30
30-40	1139.55
40-50	1104.28
50-60	926.74
60-70	658.92
70-80	358.89
80-90	95.63
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

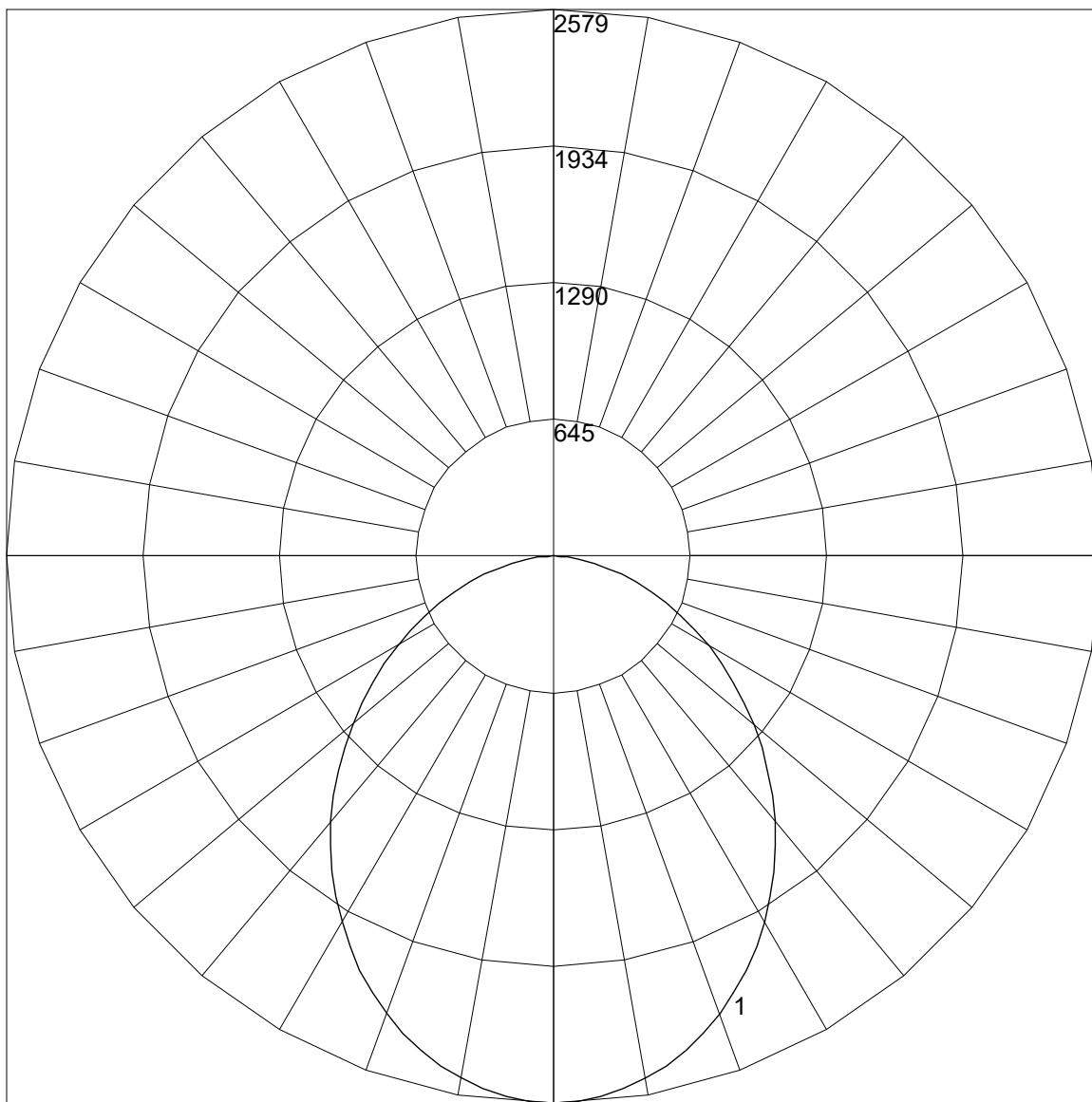
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2579 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)