

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-S-837-XXIC-ITL85148.201.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85148.201 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-S-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 26.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 27.5 WATTS

[ABSOLUTE]LUMENS]2817

[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2817
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	26.7
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	3021	2973	2996
55	2702	2648	2679
65	2353	2297	2335
75	1958	1906	1924
85	1458	1390	1220

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-S-837-XXIC-ITL85148.201.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1170.579	1170.579	1170.579	1170.579	1170.579
2.5	1169.672	1169.672	1169.218	1168.764	1168.310
5.0	1164.225	1164.225	1162.863	1161.956	1161.502
7.5	1155.601	1154.693	1153.332	1151.062	1150.608
10.0	1144.254	1142.892	1139.261	1136.538	1134.722
12.5	1126.552	1124.737	1122.013	1119.290	1117.021
15.0	1106.581	1104.312	1100.681	1097.503	1095.234
17.5	1082.071	1080.256	1075.263	1072.539	1070.724
20.0	1055.746	1052.114	1047.576	1044.852	1043.037
22.5	1024.427	1020.796	1016.711	1013.988	1011.264
25.0	991.293	987.208	982.669	980.400	978.584
27.5	955.436	950.897	946.358	944.543	943.181
30.0	918.217	912.317	908.232	906.870	905.508
32.5	878.275	871.467	867.382	867.382	866.020
35.0	836.063	828.801	825.624	826.532	825.170
37.5	792.036	785.228	782.051	782.504	782.504
40.0	747.101	739.839	737.569	739.385	739.385
42.5	701.712	694.450	692.634	694.904	695.358
45.0	656.323	649.061	645.884	650.423	650.877
47.5	610.481	603.218	600.495	605.034	605.942
50.0	565.092	557.829	555.560	560.099	561.007
52.5	520.157	512.894	510.625	515.618	516.072
55.0	476.129	467.959	466.598	471.591	472.044
57.5	430.741	424.386	422.571	428.471	428.925
60.0	388.075	382.174	379.905	385.806	386.259
62.5	346.317	340.417	338.601	343.594	344.048
65.0	305.467	300.928	298.205	302.744	303.198
67.5	265.979	260.532	259.171	263.256	263.709
70.0	227.852	222.859	221.044	225.129	225.129
72.5	190.633	187.002	186.094	187.910	187.910
75.0	155.684	152.507	151.599	153.414	152.961
77.5	123.912	119.827	119.373	120.281	119.373
80.0	93.047	89.870	90.324	89.870	88.962
82.5	64.906	63.091	62.637	61.729	59.006
85.0	39.034	38.127	37.219	34.496	32.680
87.5	16.340	16.340	15.432	15.432	14.524
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-S-837-XXIC-ITL85148.201.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	420.26	N.A.	14.90
0-30	872.92	N.A.	31.00
0-40	1390.15	N.A.	49.30
0-60	2312.01	N.A.	82.10
0-80	2773.98	N.A.	98.50
0-90	2817.39	N.A.	100.00
10-90	2707.12	N.A.	96.10
20-40	969.89	N.A.	34.40
20-50	1471.11	N.A.	52.20
40-70	1220.94	N.A.	43.30
60-80	461.97	N.A.	16.40
70-80	162.90	N.A.	5.80
80-90	43.40	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	2817.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.27
10-20	310.00
20-30	452.66
30-40	517.23
40-50	501.22
50-60	420.64
60-70	299.08
70-80	162.90
80-90	43.40
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

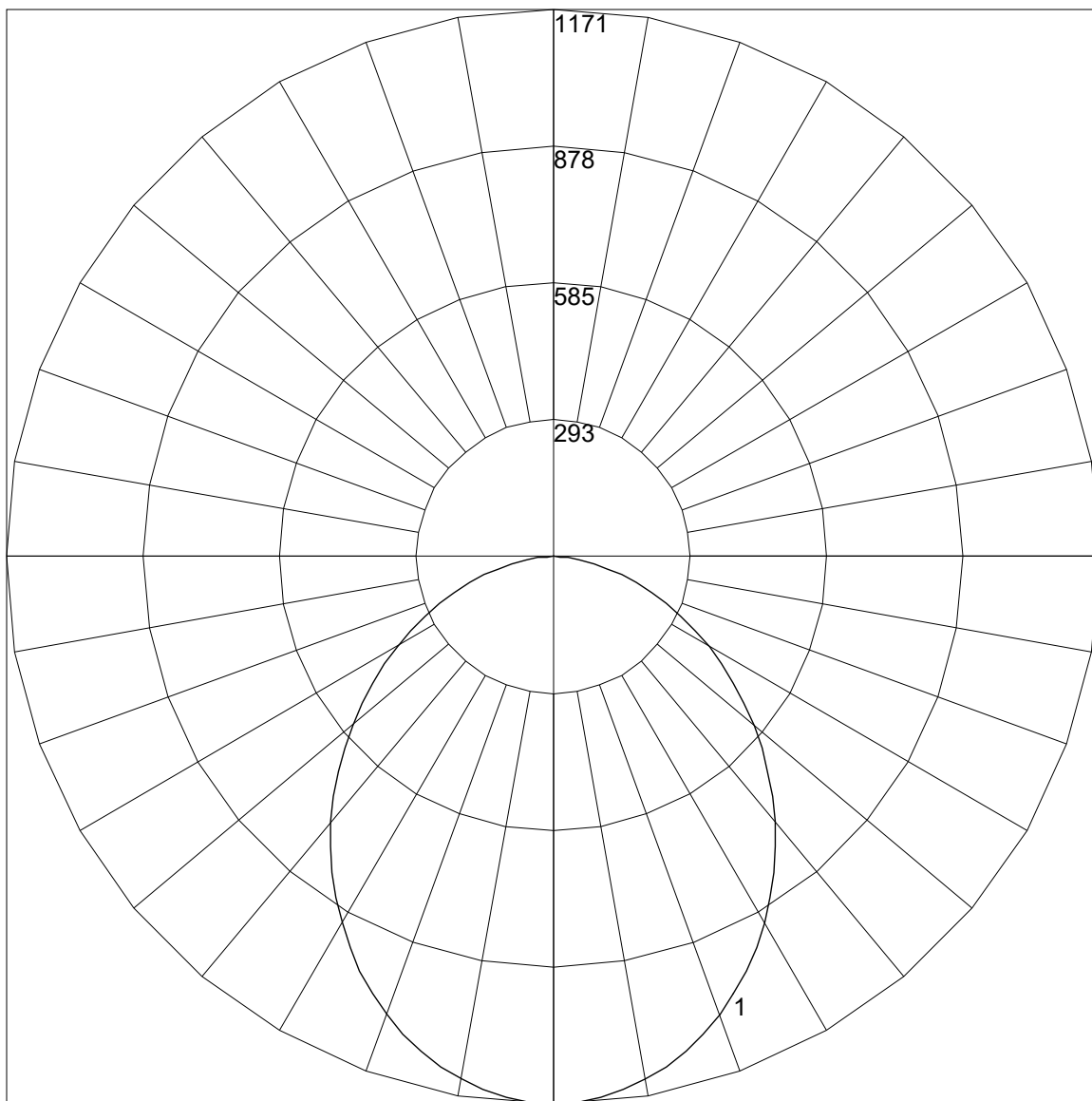
PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-S-837-XXIC-ITL85148.201.IES

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	86	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	58	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	54	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 = 1170.579 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)